

NO. 180

ALLIED RADIO

EVERYTHING IN ELECTRONICS

1959



CATALOG 180

1959

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B



Everything in Electronics

ALLIED RADIO

OUR 38TH YEAR

100 N. WESTERN AVE., CHICAGO 80, ILL.

TELEPHONE: HAYmarket 1-6800



ALLIED presents the new **WOLVERINE**

SPEAKER SERIES by *ElectroVoice*

**new, popular-priced
hi-fi speakers—
perfect for use in pairs
for superb stereo sound**



Model LS-12 Full-Range 12" Speaker

**ONLY
\$19⁵⁰**

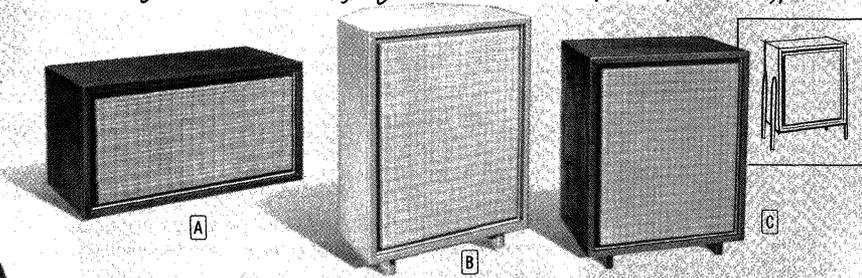
An incomparable value, the new Wolverine LS-12 12" speaker is so reasonably priced, you can purchase **two** of these precisely built units for stereo use, at less than you would pay for other single speakers. Features Radax construction, with two cones dividing sound—larger cone for maximum bass, smaller cone for efficient high-frequency performance. Response is velvet-smooth from 30 to 13,000 cps. Power handling capacity is 20 watts; handles 40-watt peaks. Rugged die-cast frame, 3 1/2" deep. Quickly and easily installed in walls, doors, etc. Impedance, 8 ohms. Shpg. wt., 5 1/4 lbs.

82 DX 850. NET \$19.50

MODEL LS-8 FULL-RANGE 8" SPEAKER. For use in smaller music installations. Has same fine construction and specs as the LS-12, but is 8" in diameter and provides response of 50 to 13,000 cps. Shpg. wt., 4 1/2 lbs.

82 D 851. NET \$18.00

Choose from Three Magnificent Custom-Styled Speaker Systems



A WOLVERINE "LINDON" SHELF-TYPE ENCLOSURE WITH LS-8 8" SPEAKER

Direct radiator, shelf-type speaker system for smaller music installations, or for use in pairs in stereo music systems. Has pre-cut ports to permit adding the HF-1 high-frequency driver kit, at right. HWD, 11x23 1/2 x 10". Specify mahogany, blonde or walnut wood-grained finish. Shpg. wt., 20 1/2 lbs.

82 DU 860C. NET \$52.50

B WOLVERINE "LORAINÉ" FOLDED-HORN ENCLOSURE WITH LS-12 12" SPEAKER

A true corner horn enclosure, the Loraine speaker system employs a corner of the room to reinforce and extend bass range. Has pre-cut ports for adding the HF-1 high-frequency driver kit and MF-1 mid-range driver-horn kit, listed at right. HWD, 27x20x14". Specify mahogany, blonde or walnut wood-grained finish. Wt., 28 1/2 lbs.

82 DU 859C. NET \$67.50

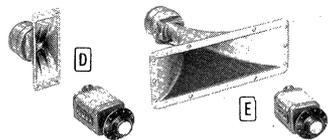
C WOLVERINE "LANCASTER" ALONG-THE-WALL ENCLOSURE WITH LS-12 12" SPEAKER

Handsome and versatile, direct radiator speaker system. New, controlled baffle for extended bass response. Has pre-cut ports for HF-1 and MF-1 "step-up" kits listed at right. With two cleat legs. HWD, 25x20x14". Specify mahogany, blonde or walnut wood-grained finish. Shpg. wt. 29 1/2 lbs.

82 DU 858C. NET \$67.50

MODEL LK-1 ACCESSORY LEG KIT. Set of 4; illustrated in inset above. Wt., 4 lbs.
82 D 857C. NET \$8.00

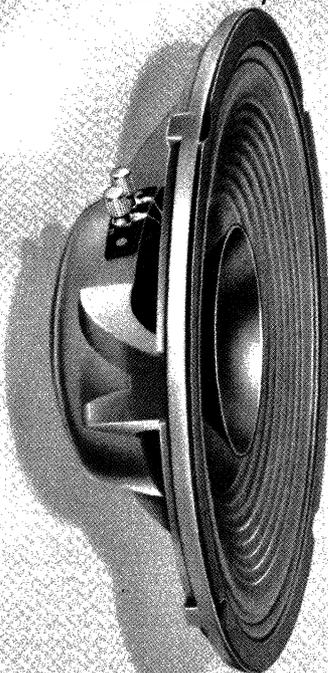
WOLVERINE "STEP-UP" KITS



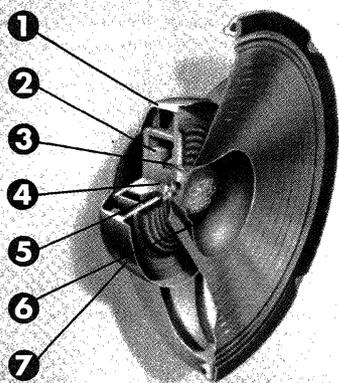
EXPAND YOUR SPEAKER SYSTEM TO TWO OR THREE-WAY OPERATION

D MODEL HF-1 HIGH FREQUENCY KIT. For all Wolverine speaker systems listed at left. Extends high-frequency performance to beyond audibility, with silk-smooth definition. Consists of TW35 VHF driver, CR35 crossover-level control, all hardware and wiring. Includes instructions for simple installation. Shpg. wt., 3 lbs.
82 D 853. NET \$20.00

E MODEL MF-1 MID-RANGE KIT. For Wolverine "Lorraine" or "Lancaster" speaker systems, after HF-1 kit is installed. Spreads mid-range sound evenly throughout listening area—completes a 3-way system. Provides increased output in the vital "presence" range, and smooth, peak-free response. Consists of MR10 matched treble driver/horn and CR10 crossover/level-control, all hardware and wiring. Shpg. wt., 5 lbs.
82 DX 852. NET \$25.00



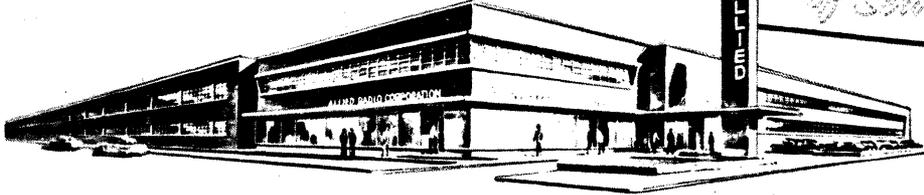
**CHECK THESE
Quality FEATURES**



Cut-away view clearly shows the outstanding design of E-V Wolverine speakers. Check the:

- ① Heavy-Duty Die-Cast Frame
- ② Efficient, Slug-Type Magnet
- ③ Edgewise-Wound Voice Coil
- ④ Durable Fiberglass Coil Form
- ⑤ Linear, Long-Throw Voice Coil
- ⑥ Radax Construction—2 Cones
- ⑦ Low-Silhouette Frame, Only 3 1/2" Deep—Easy to Mount

**THE WORLD'S LARGEST
ELECTRONIC SUPPLY HOUSE**



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ALLIED Guarantees Your Complete Satisfaction

We guarantee to bring you the world's largest stocks of quality electronic equipment at lowest prices.

We guarantee to give you the benefit of any price reductions made after this catalog is printed.

We guarantee that our merchandise conforms to the standards of the Electronic Industries Association and will perform as intended for such apparatus.

Every item you buy from us must satisfy in every way—or we want you to return it at once for exchange, repair or refund.

You Get Every Buying Advantage at ALLIED

We save you time and money because our complete stocks permit you to fill all of your electronic needs conveniently and economically from one source. And you always buy at ALLIED at the lowest prevailing market prices.

We ship speedily and safely from the world's largest stocks of electronic equipment. Your orders are speeded to you by a skilled organization with a record of 38 years of dependable service.

We satisfy you completely with expert personal help, intelligent service and the full resources that have made us the World's Leading Electronic Supply House.

15-DAY TRIAL, MONEY-BACK GUARANTEE

Order any high-fidelity component, recorder, test instrument, P. A. amplifier, communications unit or any other equipment—on our regular terms. Try it under your own operating conditions. Then, if within 15 days you are not completely satisfied, return the equipment to us, and we will refund your full purchase price, less only transportation charges. This Guarantee is further backed by the standard Electronic Industries Association Warranty against defects in materials and workmanship.

Everything in Electronics from One Dependable Source

ALLIED RADIO

100 N. WESTERN AVE., CHICAGO 80, ILL.

phone: HAYmarket 1-6800

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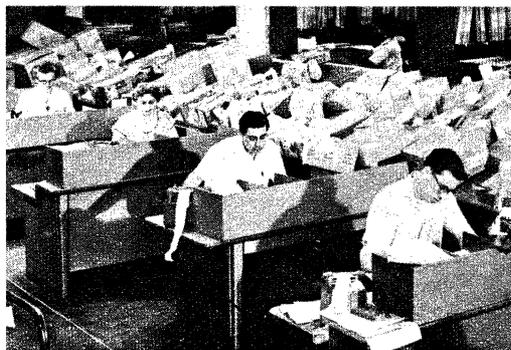
ALLIED *Serves You Best*

WORLD'S LARGEST STOCKS AT YOUR COMMAND. At Allied you make your selections from the world's largest stocks of quality parts and equipment for industrial electronics, high-fidelity, television, radio, public address and virtually every other type of electronic application. Our modern building on a full city block, provides 187,000 square feet of floor space. More than 2000 feet of conveyor belts and nearly 1½ miles of pneumatic tubing carry transactions and merchandise on a rapid order-filling schedule. Over 32,000 separate stock items from all leading manufacturers are *constantly* in stock. *One* order to Allied will cover *all* your needs.



PERSONAL HELP & TECHNICAL CONSULTING SERVICE

Our greatest satisfaction comes from giving you personal service. Your orders and letters are intelligently handled by people who take a genuine interest in your needs. You are invited to consult with our technical experts for guidance in your selection of merchandise. For friendly service, for guaranteed quality and value, make your selections from this catalog—recognized everywhere as the most widely used Electronics Supply Guide.



FASTEST SERVICE IN ELECTRONIC SUPPLY

Allied's combination of the world's largest stocks, most modern facilities and skilled, *interested* people to handle your orders, assures you of fast, dependable service. Personal inspection and a final check before your order is carefully packed, insure accuracy. You save time, money and effort when you use this catalog for Everything in Electronics. Whether you order by mail or phone, you can always depend on Allied to serve you fastest and best.

ALLIED *is America's High Fidelity Center*



BUY WITH CONFIDENCE

Allied has been the leading source of quality music system components since the very beginning of High Fidelity. All of the hi-fi products we offer you, from our tremendous stock of systems and components in every price range, are quality-checked in our labs, and performance-checked on our *Auditioner* for instant, side-by-side comparison. Make your selection from the pages that follow and get the finest in hi-fi—*your complete satisfaction is absolutely guaranteed.*

THE LEADER IN STEREO

Allied has complete stocks of newest stereo equipment

WE SELL MORE HI-FI EQUIPMENT THAN ANYONE ELSE IN THE WORLD
BECAUSE WE OFFER EVERY BUYING ADVANTAGE YOU WANT

world's largest selection of systems and components

This catalog presents *everything* in high-fidelity—amplifiers, tuners, speakers and speaker enclosures, record changers, turntables, cartridges, tape recorders, latest stereophonic equipment, etc. The famous names, the dependable standard brands, and the hard-to-get accessories—all are included here in a wide range of prices, *always in stock, ready for prompt shipment to you.*

lowest money-saving prices on the best in high-fidelity

Allied offers the lowest prevailing market prices on all of the leading quality high-fidelity components, with special savings on our matched radio-phonograph and phono systems, and on Allied's own, widely acclaimed Knight products. You can always be sure of maximum possible value for your hi-fi dollar, regardless of the size of your budget, when you do business with Allied.

easiest-pay terms to fit your budget

Allied's Easy Payment Plan has been broadened to let you get the equipment you want and start enjoying high-fidelity right now, even if you don't have all of the ready cash. You pay only 10% down on hi-fi systems or any components priced at \$20.00 or more—complete the balance in easy monthly payments. For details on our Easy Payment Plan, see page 444.

expert consulting service

Our audio specialists are glad to answer any question on high fidelity. Should you desire any assistance in choosing a music system of balanced, custom hi-fi components to fit your taste and your budget, feel free to write to Allied's Audio Division—your inquiry will bring a prompt and detailed reply. Thousands of satisfied customers have taken advantage of this free, personal and friendly consulting service.

15-day trial, money-back guarantee

Any high-fidelity system or separate component you buy at Allied may be tested under the terms of our trial guarantee. Place your order on our regular cash terms or use our Easy Pay Plan. Then check performance in your own home. If within 15 days you are not fully satisfied, return the equipment to us. We will refund your full purchase price (less only transportation charges). Every hi-fi unit is also covered by the regular EIA warranty against defects in material and workmanship—for your complete protection.

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Select your hi-fi from the world's finest equipment
GET THE MOST FOR YOUR MONEY AT ALLIED

ALLIED brings you STEREO—the new realism in Hi-Fi

Stereo is the most exciting advance in home entertainment since hi-fi began. This new dimension in sound brings you the clearest, most realistic reproduction of music you have ever heard.

You get a sense of presence and direction that is almost startling... and a depth and realism that will make you feel as though you were actually present at the performance. It's breathtaking!

THIS IS STEREO:

Originally developed for wide-screen movies, stereo employs two microphones to make two simultaneous recordings—one from each side of the performing group. For stereo playback, you need equipment that can play back both of these two stereo recordings at the same time—a stereo cartridge that feeds both channels of sound into two amplifiers (or a dual-section amplifier), which then feed both channels into two speakers. Thus, stereo provides a channel of sound for each part of the performing group, with reproduction so vividly real, that it becomes virtually indistinguishable from the original performance.

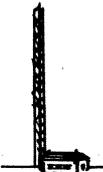
here's what makes STEREO a wonderful reality!



THE STEREO RECORD. Stereo records employ the familiar V-shaped record groove, but each wall of the "V" bears one of the two recordings in the form of tiny ridges on its surface. Standardized and used throughout the record-making industry, this new disc-cutting system is known as the Westrex method.



THE STEREO PHONO CARTRIDGE. Actually two cartridges in one, with a single needle. The two channels of sound on the groove walls of the stereo record are electrically separated by the two cartridge elements... then fed to left and right channel amplifiers... and finally, to left and right channel speakers. Fully compatible, stereo cartridges also play conventional LP records monaurally.



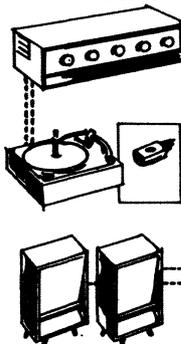
STEREO BROADCASTING. Stereo records and tapes, (and live performances in stereo), may be simultaneously broadcast over an FM and AM station, FM and TV station, or two FM stations. To enjoy the stereo effect, both channels must be received separately, and the sound fed through two amplifiers and two speakers.

this is a BASIC hi-fi system



A hi-fi system is composed of a record changer and cartridge, amplifier, and speaker in an enclosure. As the changer spins the record, the needle in the cartridge traces the record grooves. The cartridge converts side-to-side needle movements into small voltages which are fed into the amplifier. The amplifier "builds up" these voltages into sufficient energy to operate the speaker. The speaker then converts this energy into sound waves which are radiated from its cone.

this is a STEREO hi-fi music system



Actually, the fundamental operation is the same as in the basic hi-fi system, but most of the components are "doubled". As the stereo record is turned, the stereo cartridge picks up two recordings and plays each through a separate amplifier, or into a stereo amplifier (which is really two amplifiers built into a single chassis). Each amplifier feeds its channel of sound into its respective speaker system.

Just as a tuner may be added to your system for stereo radio broadcasts, so may you add a tape deck for playing stereo tapes.

ALLIED makes it easy for you to own and enjoy Hi-Fi

WHATEVER YOUR CHOICE, YOU SAVE MOST AT ALLIED. Our complete stocks enable you to fill all of your hi-fi needs from one convenient source. Expert personal help, intelligent service and the full resources that have made us America's Hi-Fi center enable us to provide you with the music system best suited to your taste and budget—at lowest prevailing prices.



1. OWN STEREO . . . THE ULTIMATE IN HIGH-FIDELITY

Our staff of audio experts has compiled a fabulous array of stereophonic hi-fi record playing systems, in a wide range of prices. All you need do is make a few simple connections—place your speakers for best acoustic effect—then play a stereo record. The room will be literally filled with the splendor of stereophonic sound. Stereo music systems are compatible, and can be used for monaural operation with conventional sound sources.

2. ENJOY HI-FI NOW . . . ADD STEREO LATER

No fear of obsolescence with any Allied hi-fi phono system! Even hi-fi systems not fully equipped for stereo include a stereo cartridge which plays stereo as well as conventional LP's monaurally. When you decide to convert to stereo, just add another amplifier and speaker system.

3. CONVERT YOUR PRESENT SYSTEM TO STEREO

It's easy—start by installing a stereo cartridge in your record changer, player or turntable. Add a second amplifier and speaker system—that's all there is to it. Make it a point to check Allied's large selection of "add-on" systems and components for conversion to stereo.

the ALLIED SYSTEM PLAN saves you money...

IT'S THE EASIEST WAY TO BUY THE BEST IN HI-FI

On pages 6 through 31, we present an outstanding selection of Allied High-Fidelity Systems—the famous, ready-to-play systems that give you the most for your hi-fi dollar. Each of these systems is a best buy in its price range—and each has been carefully selected by Allied's staff of audio experts.

Whatever system you choose, you will discover the pleasure of enjoying music with all the exciting realism of the original performance. And whatever your taste or budget, there's a balanced, perfectly matched Allied High-Fidelity Music System waiting for you. Check our "bonus" features below.



YOU SAVE MOST ON A COMPLETE SYSTEM

Every system is priced to save you money *over the total price of the same individual components if purchased separately*. The amount you save is clearly indicated in our descriptions—you can actually save up to \$120.00 when you buy a complete system!

YOU GET BALANCED, MATCHED COMPONENTS

System components are always selected on the basis of comparable quality and carefully evaluated by comparative listening tests on our renowned *Auditioner Control Console*—your assurance of peak high-fidelity performance.



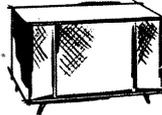
YOU GET A MUSIC SYSTEM THAT'S EASIEST TO CONNECT



Plug the record changer connectors into the amplifier—they're color-coded—you can't make a wrong connection.



Connect the speaker (or speakers) to the amplifier—speaker cable and amplifier terminals are color-coded too, for easy matching.



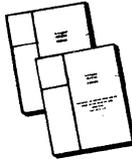
Plug the amplifier into an AC outlet—and thrill to magnificent music from your Allied Hi-Fi System.

COLOR-CODED CABLES



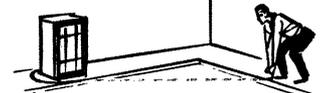
No technical knowledge is required. Simply match the colors on receptacles to the colors on cables and plugs—you can't go wrong!

FULL INSTRUCTIONS



To help you get the most enjoyment from the hi-fi system of your choice, an easy-to-follow booklet containing valuable tips is included.

EVERY SYSTEM IS COMPLETE



You get *everything you need* in one shipment—nothing else to buy—all cables are included.

YOU GET PRE-SET STYLUS PRESSURE



The stylus pressure of the turntable or record changer arm is always carefully pre-set by Allied's technicians to assure optimum performance—no adjustments to make when you receive your high-fidelity system.

YOU GET A FREE RECORD CHANGER COVER

Made of durable vinylite plastic, this valuable accessory protects your record changer or player from the harmful effects of dust and moisture. You get this cover free with any Allied hi-fi system you purchase.



3 EASY WAYS TO MAKE YOUR ALLIED SYSTEM PLAN SELECTION

1. Select an Allied-recommended music system from among the many excellent systems that are listed on pages 6 through 31. Savings are greatest in this listing, and you're almost certain to find a music system that will satisfy your personal taste.

2. Select an Allied-recommended music system and take advantage of the substitution privilege. You may replace any *one* component used in any Allied hi-fi system, with another one of your own selection; just add or subtract the difference in catalog price.

3. Write to us for a price quotation on a music system made up of components of *your own choice*. See pages 32-96—make a list of the units you prefer—send a letter to our Audio Division asking for a special System Plan price quotation. You'll get a prompt reply.

15-Day Free Trial and Money-Back Guarantee on All Hi-Fi Equipment and Systems

EASY TERMS AVAILABLE TO FIT YOUR BUDGET



THRILLING NEW STEREO HI-FI SYSTEMS AT LOWEST COST

featuring top-quality
knight®
STEREO COMPONENTS

Enjoy the splendor of stereo sound in your own home—at lowest possible cost—with new Knight stereo hi-fi systems. Each of the systems below is a superb value, selected for its ability to provide exciting 3-dimensional sound. You get all connecting cables—easy instructions—and a full one-year guarantee on each of the "Best Buy" Knight "Bantam" stereo components.



Collaro
TSC-740 4-Speed
Changer with Base

**YOUR BEST
BUYS IN
STEREO**

Here's the kind of value that only Allied can offer . . . and the performance-per-dollar that only **knight** Hi-fi components can deliver

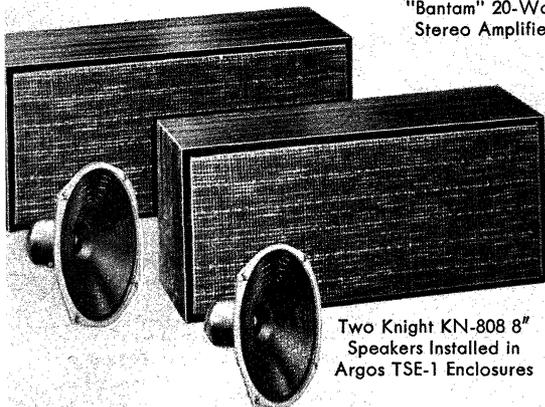


Knight KN-720
"Bantam" 20-Watt
Stereo Amplifier

Low-Cost "Bantam" Stereo Hi-Fi Systems

AS LOW AS
\$159.50
Save up to \$49.34

- Centralized Control Facilities
- Superb Stereo—At Lowest Cost
- New, Matched Stereo Components
- Stereo Cartridge—Diamond Needle
- Play Stereo & Monaural LP Records



Two Knight KN-808 8"
Speakers Installed in
Argos TSE-1 Enclosures

PHONO SYSTEM. Just place one of the new stereo recordings on the record changer—and you're ready for magnificent stereophonic sound. Even improves the quality of your present monaural record performance! Matched components, selected by Allied's experts, are your assurance of top value and top quality—and you save \$41.34 over the total cost of the individual components purchased separately. Check these outstanding units: new Knight KN-720 "Bantam" 20-Watt Stereo Amplifier; Collaro TSC-740 4-Speed Record Changer with Base; new Electro-Voice 26MDST Ceramic Stereo Cartridge, mounted in plug-in head, with .0007" Diamond and .003" Sapphire Needles; two new Knight KN-808 8" Speakers installed in two new Argos TSE-1 Enclosures.

The KN-720 amplifier offers two 10-watt channels for stereo use, or full 20-watt output for monaural use. Changer base in mahogany or limed oak; speaker enclosures in mahogany or limed oak leatherette—specify choice when ordering. System is supplied with all cables and connectors—color-coded and ready for hookup. For 110-120 v., 60 cycle AC. Shpg. wt., 75 lbs.
36 HF 500. Only \$15.95 Down. NET. 159.50

FM-AM-PHONO SYSTEM. Save \$49.34! Includes all of the components listed above, plus the new Knight KN-130 "Bantam" Stereo FM-AM Basic Tuner. 88 lbs.
36 HF 501. Only \$23.10 Down. NET. 231.00

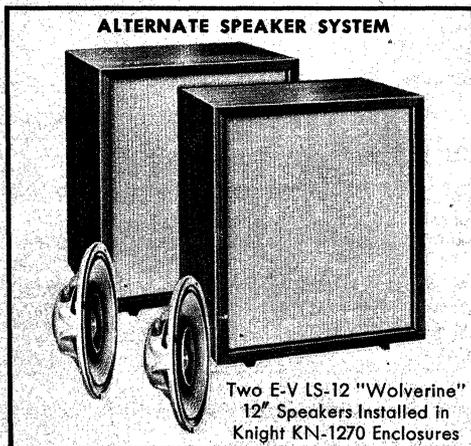
WITH ALTERNATE SPEAKER SYSTEM

PHONO SYSTEM. Save \$41.60! Includes: new Knight KN-720 "Bantam" 20-Watt Stereo Amplifier; Collaro TSC-740 4-Speed Record Changer with Base; new Electro-Voice 26MDST Ceramic Stereo Cartridge, in Plug-In Head, with .0007" Diamond and .003" Sapphire Needles; and two new Electro-Voice LS-12 12" "Wolverine" Speakers installed in two Knight KN-1270 Enclosures. Changer base and speaker enclosures in mahogany, limed oak or walnut wood-grained finish—specify choice. For 110-120 v., 60 cycle AC. Shpg. wt., 127 lbs.
36 HF 502. Only \$19.90 Down. NET. 199.00

FM-AM-PHONO SYSTEM. Save \$48.85! As above, but with the new Knight KN-130 Stereo FM-AM Tuner. 142 lbs.
36 HF 503. Only \$27.13 Down. NET. 271.25



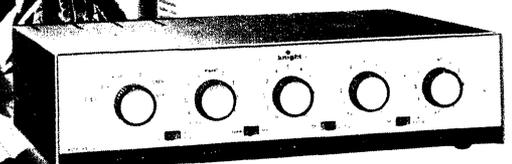
OPTIONAL STEREO TUNER
Knight KN-130 "Bantam" Stereo FM-AM Tuner



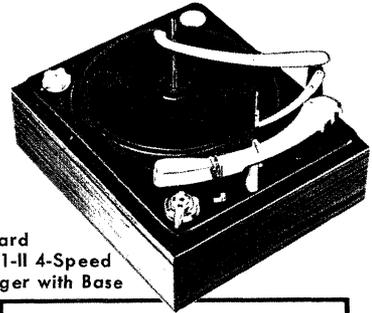
Two E-V LS-12 "Wolverine"
12" Speakers Installed in
Knight KN-1270 Enclosures

ONLY AT ALLIED

Knight components are created by Allied—acclaimed everywhere as the finest values in High Fidelity



New Knight KN-720 "Bantam" 20-Watt Stereo Amplifier



Garrard RC121-II 4-Speed Changer with Base

STEREO CARTRIDGE



New G.E. GC-7 Stereo Cartridge with Single .0007" Diamond Needle

Two Knight KN-800 12" Speakers Installed in Knight KN-1270 Enclosures

Allied's Supreme Value "Metropolitan" Stereo Hi-Fi Systems

AS LOW AS
\$249.50

Save Up to \$61.08

- For Breathtaking Stereo Sound from Stereo Records
- Thrilling Performance from Conventional LP Records
- New Stereo Magnetic Cartridge with Diamond Needle
- Matched, 12" 3-Way Speakers Installed in Enclosures

Capture the full beauty and realism of stereo sound from new stereo records,—discover new vividness in your monaural LP collection, with these fabulous "Metropolitan" stereo systems. Designed around new Knight stereo components, these systems are carefully selected to bring you the most for your hi-fi dollar, through Allied's System Plan savings. These are the components: new Knight KN-720 "Bantam" 20-Watt Stereo Amplifier; Garrard RC121-II 4-Speed Record Changer with Base; new G.E. GC-7 Magnetic Stereo Cartridge installed in Plug-In Head, with single, .0007" Diamond Needle; two Knight KN-800 12" 3-Way Speakers installed in Knight KN-1270 Enclosures; color-coded cables and instructions.

The KN-720 amplifier offers full stereo control and dual 10-watt output. The Garrard RC121-II is renowned for its smooth operation. G.E.'s stereo cartridge will play LP's as well as stereo discs (see page 17 for 78-rpm accessory cartridge). The two KN-800 speakers installed in the KN-1270 enclosures provide dazzling stereophonic sound. Changer base and speaker enclosures in mahogany, limed oak or walnut wood-grained finishes—specify choice when ordering. For 110-120 volt, 60 cycle AC.

PHONO SYSTEM. *Save \$42.98!* Includes all of the components listed above. Shpg. wt., 138 lbs. 36 HF 504. \$24.95 Down. **NET 249.50**

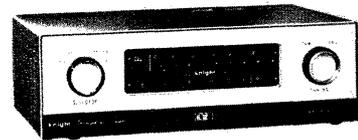
FM-AM-PHONO SYSTEM. *Save \$50.98!* All components above, plus Knight KN-130 Stereo FM-AM Tuner. 151 lbs. 36 HF 505. \$32.10 Down. **NET 321.00**

WITH ALTERNATE SPEAKER SYSTEM

PHONO SYSTEM ONLY. Includes all components in Phono System above, but with two new Knight KN-2000 Speaker Systems, in place of two KN-800 speakers and KN-1270 enclosures. Specify mahogany, limed oak or walnut. Wt., 124 lbs. 36 HF 506. *Save \$53.08.* **NET. 265.50**

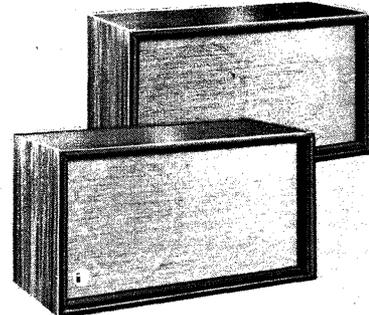
FM-AM-PHONO SYSTEM. Includes all of the components of the Phono System described at left, with the addition of the new Knight KN-130 "Bantam" Stereo FM-AM Basic Tuner. Specify changer base and enclosure finishes. Shpg. wt., 137 lbs. 36 HF 507. *Save \$61.08.* **NET. 337.00**

OPTIONAL STEREO TUNER



New KN-130 "Bantam" Stereo FM-AM Basic Tuner—for Sensitive FM, AM or Stereo FM-AM Reception

ALTERNATE SPEAKER SYSTEM



Two New Knight KN-2000 3-Way Speaker Systems

See Pages 56-60 for Listings of Knight Speakers & Enclosures



ALLIED'S DELUXE STEREO MUSIC SYSTEMS

LUXURY PERFORMANCE AT SUBSTANTIAL SAVINGS



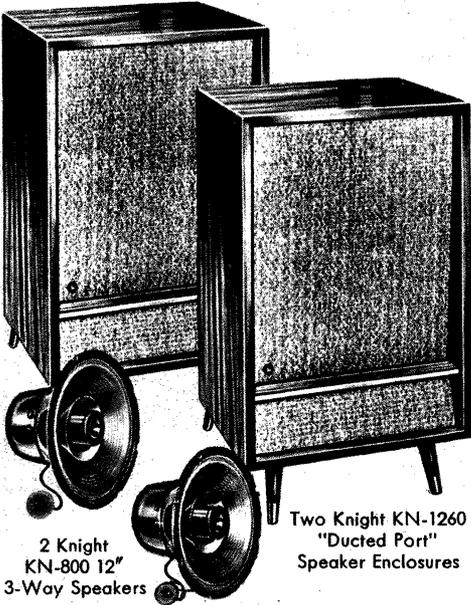
New Knight KN-734
Deluxe 34-Watt
Stereo Amplifier



Garrard RC121-II 4-Speed
Record Changer with Base



New G.E. GC-7
Stereo Cartridge
with Diamond Needle



Two Knight KN-1260
"Ducted Port"
Speaker Enclosures

2 Knight
KN-800 12"
3-Way Speakers

Deluxe 34-Watt Stereo Hi-Fi Systems

AS LOW AS

\$349.50

Save Up to \$45.63

- Deluxe-Quality Stereo Components
- Plays All LP's—Stereo or Monaural
- Stereo Cartridge—Diamond Needle
- Centralized Stereo Controls
- Matched 3-Way Speakers in Fine Furniture Enclosures

PHONO SYSTEM. Enjoy magnificent stereo or monaural musical reproduction with this versatile hi-fi system, priced to save you \$31.53 on the total cost of the individual components. Carefully selected by our own audio experts, this balanced array of components fully recreates the dazzling sounds available on new stereo records. Includes: new Knight KN-734 34-Watt Stereo Amplifier; Garrard RC121-II 4-Speed Record Changer with Base; new G.E. GC-7 Magnetic Stereo Cartridge installed in Plug-In Head, with single .0007" Diamond Needle; two Knight KN-800 12" Speakers installed in two Knight KN-1260 Enclosures; all interconnecting cables and instructions.

The new Knight KN-734 stereo amplifier offers excellent stereo and monaural controls; delivers 17 watts output per channel on stereo and 34-watt monaural output. G.E.'s new cartridge plays stereo and monaural LP records (see page 17 for accessory plug-in head with 78-rpm cartridge installed). The beautiful KN-1260 enclosures are finished in selected hardwood veneer panels—together with the Knight 3-way speakers, they provide rich stereo sound. Changer base and speaker enclosures in mahogany, limed oak or walnut—specify choice when ordering. For operation from 110-120 volt, 60 cycle AC. Shpg. wt., 139 lbs.
36 HF 508. Only \$34.95 Down. NET. 349.50

FM-AM-PHONO SYSTEM. Save \$45.53. All components above, with the addition of the new Knight KN-120 Deluxe Stereo FM-AM Tuner. Shpg. wt., 160 lbs.
36 HF 509. Only \$46.60 Down. NET. 466.00

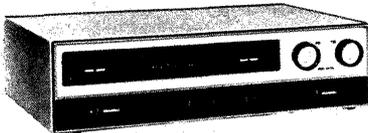
WITH ALTERNATE SPEAKERS

PHONO SYSTEM. Save \$32.63. Includes all components described in the Phono System above (No. 36 HF 508), but with two new Knight KN-812 Deluxe 12" Speakers in place of the KN-800 speakers. 183 lbs.
36 HF 510. Only \$39.85 Down. NET. 398.50

FM-AM-PHONO SYSTEM. Save \$45.63! As above, but with the new Knight KN-120 Deluxe Stereo FM-AM Tuner. 214 lbs.
36 HF 511. Only \$51.50 Down. NET. 515.00

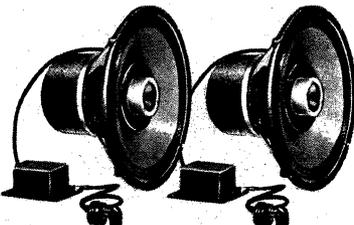
See Pages 34-35 for Complete Descriptions of New Knight Deluxe Stereo Amplifier and Deluxe Stereo FM-AM Tuner; Knight speakers are described on pages 56 and 57.

OPTIONAL STEREO FM-AM TUNER



New Knight KN-120 Deluxe
Stereo FM-AM Basic Tuner

ALTERNATE SPEAKER CHOICE



Two New Knight KN-812 Deluxe
12", 3-Way Speakers

FEATURING PRECISELY DESIGNED **knight** STEREO COMPONENTS

Skillfully engineered to Allied's rigid specifications, highly advanced Knight stereo hi-fi components offer you the best in musical reproduction at moderate cost. For your complete protection, all Knight hi-fi components are unconditionally guaranteed for one full year.



Super-Deluxe 34-Watt Stereo Music Systems

AS LOW AS

Save Up to \$53.63

- Superb Stereophonic Performance
- Finest Knight Stereo Units
- Deluxe Garrard Record Changer
- New G.E. Stereo Cartridge
- Matched 12", 3-Way Speakers in Knight Enclosures

PHONO SYSTEM. Allied presents a brilliant array of hi-fi components in this choice stereophonic system—and you save \$40.53 on the total cost of components purchased separately! Open the magic door to wondrous stereo sound from records with these deluxe units; system is ready for use as soon as you plug together the color-coded cables and connectors. Includes: new Knight KN-734 Deluxe 34-Watt Stereo Amplifier; Garrard RC88-4 4-Speed Record Changer with Base; new G.E. GC-7 Magnetic Stereo Cartridge installed in Garrard Plug-In Head, with Single, .0007" Diamond Stylus; two Knight KN-800 12", 3-Way Speakers installed in two Knight KN-1215 "Dual-Duct" Enclosures; color-coded cables and plugs, and complete instructions.

A full set of dual controls is featured in the Knight KN-734 amplifier—stereo or monaural sound can be regulated to suit personal listening tastes and room acoustics. G.E.'s new GC-7 cartridge plays stereo and monaural LP records (see page 17 for accessory plug-in head with 78-rpm cartridge installed). The KN-1215 enclosures, with KN-800 speakers, offer excellent stereo reproduction. Changer base and speaker enclosures available in mahogany, limed oak or walnut—specify your choice when ordering. System operates from 110-120 volts, 60 cycle AC. Shpg. wt., 216 lbs.

36 HF 512. Only \$39.95 Down. NET. 399.50

FM-AM-PHONO SYSTEM. Save \$53.63! All components above, with the addition of the new Knight KN-120 Deluxe Stereo FM-AM Tuner. Shpg. wt., 242 lbs.
36 HF 513. Only \$51.60 Down. NET. 516.00

WITH ALTERNATE SPEAKERS

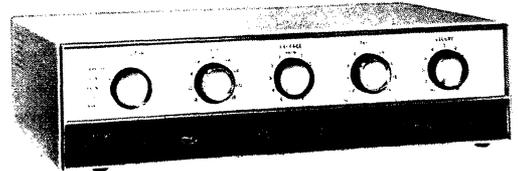
PHONO SYSTEM. Save \$40.63! Includes all of the components described in the Super-Deluxe Phono System above (No. 36 HF 512), but with two Knight KN-810 15", 3-Way Speakers in place of the KN-800 speakers. Shpg. wt., 227 lbs.

36 HF 514. Only \$41.95 Down. NET. 419.50

FM-AM-PHONO SYSTEM. Save \$53.63! As above, but with the addition of the new Knight KN-120 Deluxe Stereo FM-AM Tuner. Shpg. wt., 248 lbs.

36 HF 515. Only \$53.60 Down. NET. 536.00

Knight Speakers are Described on Pages 56 and 57



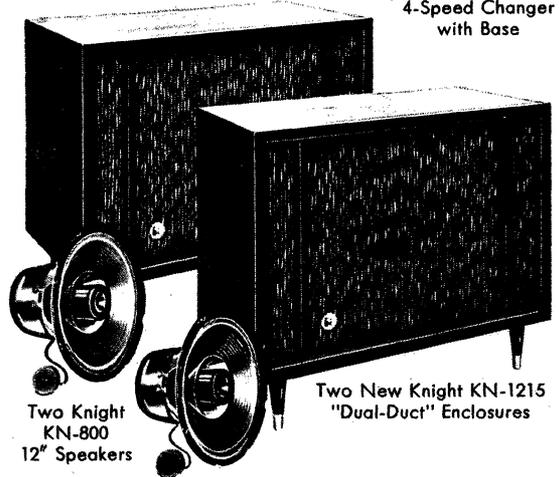
New Knight KN-734
34-Watt Stereo
Amplifier



New G.E. GC-7
Stereo Cartridge



Garrard RC88-4
4-Speed Changer
with Base



Two Knight
KN-800
12" Speakers

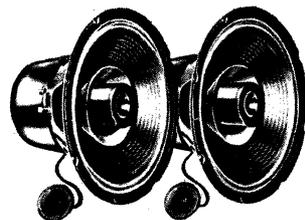
Two New Knight KN-1215
"Dual-Duct" Enclosures

OPTIONAL STEREO FM-AM TUNER



New Knight KN-120
Stereo FM-AM Basic Tuner

ALTERNATE SPEAKER CHOICE

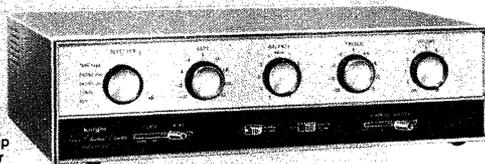


Two Knight KN-810
15", 3-Way Speakers

Superb Stereo Featuring **knight** Components



New Knight
KN-700A
Stereo Preamp
Control Center



Our Finest **knight** Stereo Music Systems

AS LOW AS
\$469⁵⁰

Save Up to \$45.06

- Outstanding Stereo Reproduction
- Premium-Quality Components
- Features Full Set of Controls
- Top Stereo Cartridge
- Matched Speakers & Enclosures



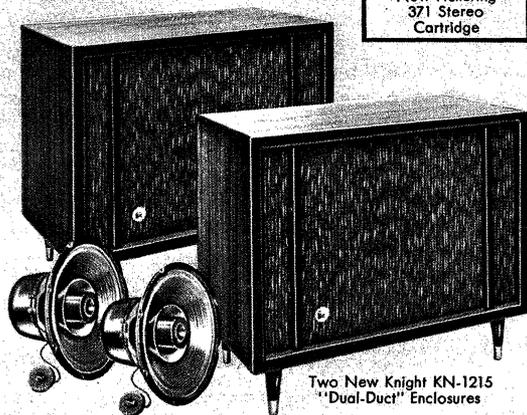
Knight KN-1515
30-Watt Stereo
Basic Amplifier



Garrard RC88-4
Record Changer
with Base



New Pickering
371 Stereo
Cartridge



Two New Knight KN-1215
"Dual-Duct" Enclosures

PHONO SYSTEM. Brilliant stereo reproduction and incomparable value highlight this array of perfectly matched components—priced to save you \$31.96. System includes: new Knight KN-700A Stereo Preamp Control Center; Knight KN-1515 30-Watt Stereo Basic Amplifier; Garrard RC88-4 4-Speed Record Changer with Base; new Pickering 371 Magnetic Stereo Cartridge mounted in Garrard Plug-In Head, with Single .0007" Diamond Needle for LP Records; two Knight KN-810 15" Speakers installed in two new Knight KN-1215 "Dual-Duct" Enclosures.

The KN-700A stereo preamp is masterfully designed to provide complete stereo control flexibility. KN-1515 amplifier offers two 15-watt channels, instantly switchable to full 30-watt output for monaural use. Pickering's splendid new stereo cartridge plays stereo and monaural LP records (see page 17 for accessory Garrard plug-in head with 78-rpm cartridge). Delightful stereo sound is provided by the KN-810 speakers in the KN-1215 enclosures. Changer base and enclosures in mahogany, limed oak or walnut—specify choice. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 243 lbs.

36 HF 516. *Only \$46.95 Down.* NET. 469.50

FM-AM-PHONO SYSTEM. Save \$44.96! All components above, with the addition of the new Knight KN-120 Deluxe Stereo FM-AM Tuner. Shpg. wt., 264 lbs.

36 HF 517 *Only \$58.60 Down.* NET. 586.00

WITH ALTERNATE SPEAKERS

PHONO SYSTEM. Save \$32.06! All of the components in the Phono System above, (No. 36 HF 516) but with two Knight KN-815 Deluxe 15" 3-Way Speakers in place of the KN-810 speakers. Shpg. wt., 289 lbs.

36 HF 518. *Only \$53.85 Down.* NET. 538.50

FM-AM-PHONO SYSTEM. Save \$45.06! As above, but also includes the new Knight KN-120 Deluxe Stereo FM-AM Tuner. Shpg. wt., 310 lbs.

36 HF 519. *Only \$65.50 Down.* NET. 655.00

Stereo Phono System For Custom Installation

\$399⁵⁰ For installation in your own equipment cabinet, enclosures, etc. Supplied less speaker enclosures and record changer base. Includes: new Knight KN-700A

Stereo Preamp; Knight KN-1515 30-Watt Stereo Basic Amplifier; Garrard RC88-4 Record Changer; new Pickering 371 Magnetic Stereo Cartridge in Garrard Plug-In Head, with Single .0007" Diamond LP Needle (see page 17 for accessory 78-rpm cartridge); Mounting Board for RC88-4 Changer; and two Knight KN-815 15" Speakers. For 110-120 v., 60 cycle AC. Shpg. wt., 132 lbs.

36 HF 520. *Only \$39.95 Down.* NET. 399.50

FM-AM-PHONO SYSTEM. Save \$41.71! As above, but with new Knight KN-120 Deluxe Stereo FM-AM Tuner. Shpg. wt., 153 lbs.

36 HF 521. *Only \$51.60 Down.* NET. 516.00

OPTIONAL STEREO FM-AM TUNER

New Knight KN-120 Stereo FM-AM Tuner

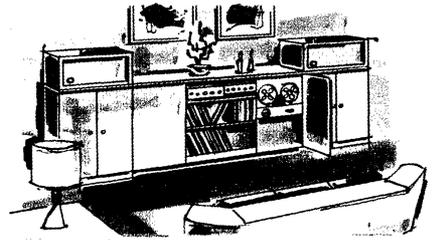


ALTERNATE SPEAKERS
Two Knight
KN-815 Deluxe
15", 3-Way
Speakers

Two Knight KN-810
15" Speakers

ALLIED'S "BEST BUY" STEREO TAPE PLAYBACK SYSTEMS

For stereo tape enthusiasts—two versatile stereo tape playback systems at moderate cost. Both of the tape decks featured in these systems are of such high quality and established reputation, that Allied employs them in its own stereo tape auditioning studio. Both are simple to operate and of reliable, precision construction. Additionally, both of these popular components can be used for monaural tape playback as well as stereophonic playback. Don't overlook these remarkable values—Allied System Plan savings are substantial!



Stereo Tape System With Pentron Tape Deck

~~\$299.50~~

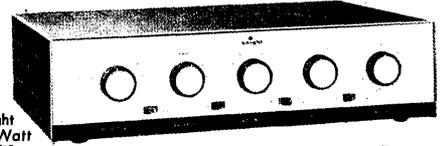
Save \$33.79

- Versatile & Popular Tape Deck Unit
- New Knight Stereo Amplifier
- Matched Knight Speakers & Enclosures
- With All Cables & 7" Take-Up Reel

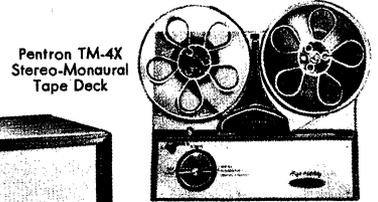
Perfectly matched stereo tape playback system—offers everything you need for breathtaking stereo sound from recorded tapes. You save \$33.79 on the already low cost of the top-value components in this system! System includes: new Knight KN-720 20-Watt Stereo Amplifier; Pentron TM-4X Stereo Tape Deck; two Knight KN-800 12", 3-Way Speakers installed in two Knight KN-1270 Bass Reflex Enclosures; and all interconnecting cables, plus 7" take-up reel.

The KN-720 amplifier features a complete set of stereo controls and delivers 10-watt output per channel or full 20-watt output for monaural use. Pentron's TM-4X stereo tape deck can be used for stereo and monaural playback. Plays new 4-track tapes. Fast forward and fast rewind, play, record and neutral position are all set by a single, easy-to-use control knob. It employs a 4-pole, shaded-pole induction motor for smooth, highly efficient operation. Two speeds— $3\frac{3}{4}$ " and $7\frac{1}{2}$ " per second. Accommodates reels up to 7" in size. The two Knight KN-800 speakers in KN-1270 enclosures provide stereo sound with jewel-like clarity. Enclosures in mahogany, limed oak or walnut wood-grained finish—specify choice when ordering. System operates from 110-120 v., 60 cycle AC. Shpg. wt., 135 lbs.

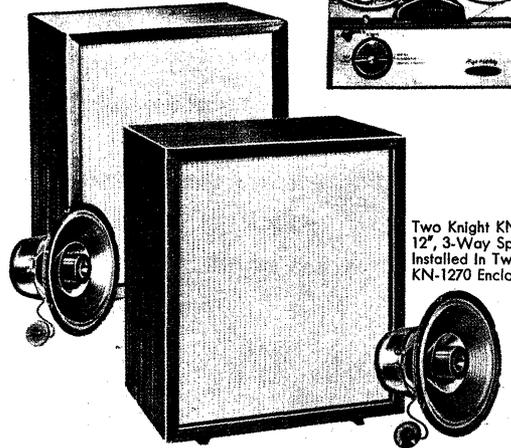
36 HF 523. Only \$299.50 Down. NET..... 299.50



New Knight KN-720 20-Watt Stereo Amplifier



Pentron TM-4X Stereo-Monaural Tape Deck



Two Knight KN-800 12", 3-Way Speakers Installed in Two KN-1270 Enclosures

Stereo Tape System With Bell Tape Deck

~~\$409.50~~

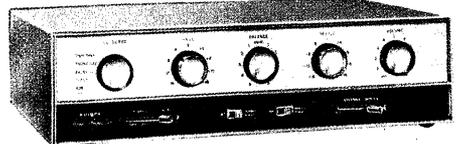
Save \$39.44

- Deluxe Components Used Throughout
- Brilliant Knight Stereo Amplifier
- High-Quality Bell Tape Deck Unit
- Two New Knight Speaker Systems

You'll enjoy splendid stereo tape reproduction with this magnificent array of components. Carefully selected by our own audio experts, this fine system includes: new Knight KN-734 Deluxe 34-Watt Stereo Amplifier; Bell T-213 Stereo Tape Deck with Base; two new Knight KN-2000 "Soft Suspension" Speaker Systems.

The beautifully styled KN-734 amplifier features a complete set of stereo controls, 17 watts output per channel, or 34 watts output for monaural use. Bell's T-213 Tape deck features monaural and stereo playback; three 4-pole motors; $7\frac{1}{2}$ " and $3\frac{3}{4}$ "-per-second speeds; tape footage counter; tape lifter for removing tape from heads during stop and high speeds; and excellent high-fidelity specifications. The two compact KN-2000 speaker systems are new "soft-suspension" 3-way systems within sealed enclosures—reproduction is remarkably clean from units this small in size. Enclosures in mahogany, limed oak or walnut hardwood veneers—specify choice when ordering. System operates from 110-120 v., 60 cycle AC. Shpg. wt., 139 lbs.

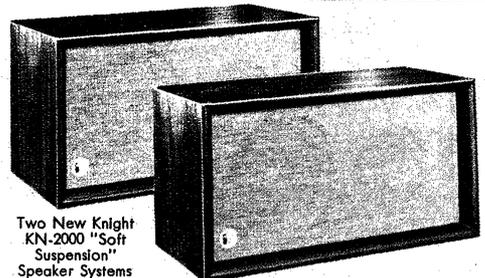
36 HF 522. Only \$409.50 Down. NET..... 409.50



New Knight KN-734 Deluxe 34-Watt Stereo Amplifier



Bell T-213 Stereo-Monaural Tape Deck with Base



Two New Knight KN-2000 "Soft Suspension" Speaker Systems

See Page 99 for Listings of Stereo Tapes

MONEY-SAVING ALLIED "BEST BUY" HIGH-FIDELITY SYSTEMS



Knight KN-510
"Mini-Fi" 10-Watt
Amplifier



Garrard RC121-II
Record Changer
with Base



New G.E. GC-7
Stereo Cartridge

EASY TO CONVERT TO STEREO

The "Metropolitan" Phono System is equipped with a new G.E. stereo magnetic cartridge. It plays microgroove records and new stereo records, *monaurally*. Later on, add another amplifier and speaker to play stereo records stereophonically.

Superb "Metropolitan" Hi-Fi Phono System

ONLY

~~\$159.50~~

\$15.95 Down

- Top-Value Knight 10-Watt Amplifier
- World-Famous British Changer
- Stereo Cartridge—Diamond Needle
- Highly-Popular Knight 12" Speaker
- Attractively Styled Speaker Enclosure

PHONO SYSTEM. Here's a good way to get started in stereo—choose this top-economy phono system now, at a savings of \$21.53. Later on you can add another amplifier and speaker system for stereo sound from stereo records. Carefully selected by Allied's hi-fi experts, this balanced system brings you true hi-fi sound and reliable performance at a price to fit any budget.

Complete system includes: the Knight KN-510 "Mini-Fi" 10-Watt Amplifier; Garrard RC121-II 4-Speed Record Changer with Base; new G.E. GC-7 Stereo Magnetic Cartridge installed in plug-in head, with Single .0007" Diamond Needle; Knight KN-800 12", 3-Way Speaker installed in Knight KN-1270 Bass Reflex Enclosure; color-coded cables and complete instructions.

The highly popular "Mini-Fi" amplifier offers exceptionally clean reproduction; Garrard's precision-made changer handles records gently while providing smooth operation. G.E.'s new stereo cartridge plays microgroove LP and stereo records, monaurally. When you convert to stereo, your changer and cartridge will be ready to provide you with fabulous stereophonic sound from stereo records. (See page 17 for accessory Garrard plug-in head with 78-rpm cartridge installed). The Knight speaker and enclosure combination is widely recognized as an unusual hi-fi value and delivers rich, balanced sound. Changer base and enclosure in mahogany, limed oak and walnut wood-grained finish—specify choice when ordering. System operates from 110-120 volt, 60 cycle AC. Shpg. wt., 81 lbs.

36 HF 524 *Save \$21.53.* NET 159.50

Radio-Phono Music Systems

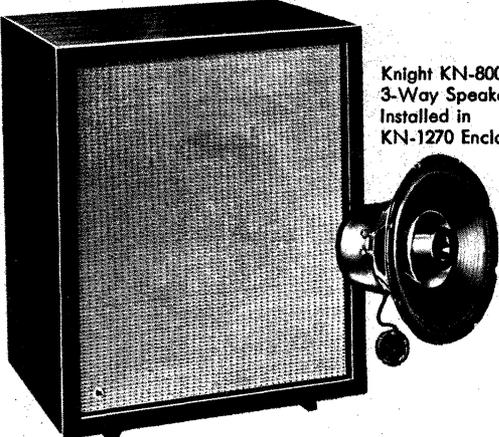
FM-PHONO SYSTEM. *Save \$26.48!* Includes all of the components listed in the Phono System above, plus the new Knight KN-140 Basic FM Tuner. No larger than a standard-size book, this beautifully styled and skillfully engineered tuner offers excellent FM reception; automatic frequency control for "lock-in" tuning; and other fine features. (See page 41 for complete description). Shpg. wt., 89 lbs.

36 HF 526. *Only \$20.45 Down.* NET 204.50

FM-AM PHONO SYSTEM. *Save \$29.53!* Includes all of the components listed in the Phono System above, plus the new Knight KN-130 Bantam Stereo FM-AM Tuner. This custom-quality tuner offers you stereo FM-AM reception, FM or AM reception, automatic frequency control on FM, deluxe styling, etc. (See page 38 for complete description). Shpg. wt., 94 lbs.

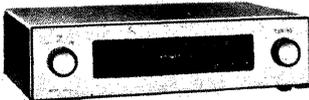
36 HF 525. *Only \$23.10 Down.* NET 231.00

Allied is America's High-Fidelity Center

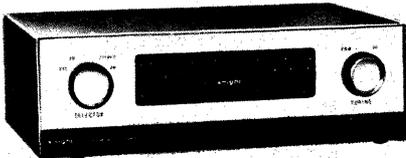


Knight KN-800 12",
3-Way Speaker
Installed in
KN-1270 Enclosure

OPTIONAL FM, AND FM-AM TUNERS



New Knight KN-140 Basic FM Tuner
—a Classic in Compact Styling



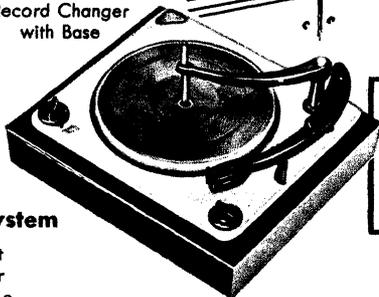
New Knight KN-130 "Bantam" Stereo
FM-AM Tuner—Offers Splendid
Reception

... FEATURING **knight** COMPONENTS



**Knight KN-510
"Mini-Fi" 10-Watt
Amplifier**

**Collaro TSC-740
Record Changer
with Base**



**New Electro-Voice
26MDST Ceramic
Stereo Cartridge**



Lowest-Cost "Space-Saver" Hi-Fi Phono System

ONLY

- Ultra-Compact Units—Lowest Cost
- Rugged Knight "Mini-Fi" Amplifier
- Stereo Cartridge—Diamond Needle
- Imported Collaro Record Changer
- High-Performance Speaker System

You Save \$34.77

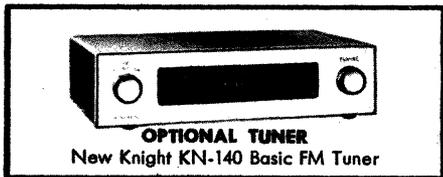
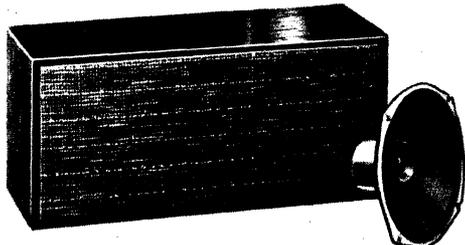
Here's a beautifully performing hi-fi system—at a remarkably low price and System Plan savings of \$34.77! You'll be delighted with the authentic hi-fi sound this system provides. Includes: Knight KN-510 "Mini-Fi" 10-Watt Amplifier, Collaro TSC-740 4-Speed Changer with Base; new Electro-Voice 26MDST Ceramic Stereo Cartridge installed in plug-in head, and with .0007" Diamond and .003" Sapphire Needles; new Knight KN-808 Full-Range 8" Speaker installed in the Argos TSE-1 Shelf-Type Ducted Enclosure. E-V's cartridge plays stereo, microgroove LP and 78-rpm records, monaurally—later, you can add another amplifier and speaker for wondrous stereo sound from stereo records. Changer base in mahogany or limed oak wood-grained finish; enclosure in mahogany or limed oak leatherette—specify choice when ordering. System operates from 110-120 v., 60 cycle AC. Shpg. wt., 49 lbs.

36 HF 527. *Only \$10.00 Down.* NET..... **99.95**

FM-PHONO SYSTEM. *Save \$39.72!* As above, with new Knight KN-140 Basic FM Tuner. Shpg. wt., 57 lbs.

36 HF 528. *Only \$14.50 Down.* NET..... **144.95**

**New Knight KN-808
8" Speaker in Argos
TSE-1 Enclosure**



**OPTIONAL TUNER
New Knight KN-140 Basic FM Tuner**

Economy "Space-Saver" Hi-Fi Phono System

ONLY

- System Occupies Minimum Space
- Highly Esteemed "Mini-Fi" Amplifier
- Stereo Cartridge—Diamond Needle
- Top-Rated 4-Speed Record Changer
- Outstanding Speaker System

You Save \$36.00

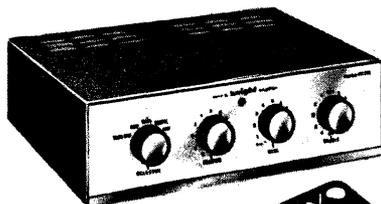
Pocket exceptional savings of \$36.00 on this expert-selected hi-fi phono system! Components are perfectly matched—just connect and start playing records. Includes: Knight KN-510 "Mini-Fi" 10-Watt Amplifier; Garrard RC121-II Record Changer with Base; new Electro-Voice 26MDST Ceramic Stereo cartridge installed in plug-in head, with .0007" Diamond and .003" Sapphire Needles; new Knight KN-808 Full-Range 8" Speaker installed in the Knight KN-1270 Enclosure; cables and instructions.

E-V's new stereo cartridge plays stereo, microgroove LP and 78-rpm records, monaurally—later, just add another amplifier and speaker to this system, and you're all ready for stereo sound from stereo records. The KN-808 speaker employs a specially suspended cone for amazing sound. Changer base and enclosure in mahogany, limed oak or walnut wood-grained finishes—specify choice. For 110-120 v., 60 cycle AC. 66 lbs.

36 HF 529. *Only \$10.95 Down.* NET..... **109.50**

PHONO SYSTEM WITH E-V SPEAKER. *Save \$40.93!* As above, but with Electro-Voice SP12-B 12" Speaker in place of the Knight KN-808 speaker. Shpg. wt., 81 lbs.

36 HF 530. *Only \$12.95 Down.* NET..... **129.50**



**Knight KN-510
"Mini-Fi"
Amplifier**

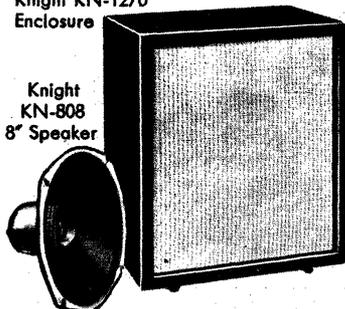


**E-V 26MDST
Stereo Cartridge**



**Garrard RC121-II
Changer with Base**

**Knight KN-1270
Enclosure**



**Knight
KN-808
8" Speaker**



**ALTERNATE
SPEAKER CHOICE**

**E-V SP12-B
12" Speaker**



SPECIAL-VALUE **knight** HI-FI PHONO SYSTEMS...BUY NOW...

EACH SYSTEM INCLUDES DUAL-PURPOSE AMPLIFIER AND STEREO CARTRIDGE...

Each of the special-value Knight hi-fi phono systems listed on these two pages employs latest components to bring you matchless reproduction of music from records—the cleanest, most realistic sound you have ever heard!

Each system features a dual-section amplifier of latest design. You employ the output of both channels for magnificent monaural sound now—add only a speaker to the system whenever you're ready for stereo sound.



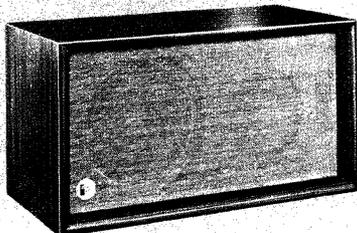
New Knight KN-720 Stereo Amplifier

Garrard RC121-II Changer with Base



New G.E. GC-7 Stereo Cartridge

New Knight KN-2000 3-Way Speaker System



knight "Bantam" 20-Watt System

ONLY

\$209.00

You Save \$25.08

- "Bantam" 20-Watt Stereo Amplifier
- G.E. Cartridge—Diamond Needle
- Garrard Changer with Base
- New Knight Speaker System
- Color-Coded Connecting Cables

A compact, beautifully balanced system—ready to provide you with outstanding reproduction of music from records. You save \$25.08 over total cost of components—and your satisfaction is absolutely guaranteed! System includes: new Knight KN-720 20-Watt "Bantam" Stereo Amplifier; Garrard RC121-II 4-Speed Record Changer with Base; new G.E. GC-7 Stereo Magnetic Cartridge installed in Garrard plug-in head, and with Single .0007" Diamond Needle; new Knight KN-2000 high-performance 3-Way Speaker System in Shelf-Type Enclosure.

The KN-720 stereo amplifier features two 10-watt channels to provide full 20-watt output for monaural use. Controls are more than adequate for any sound source; styling is attractive. G.E.'s new cartridge plays all stereo and microgroove LP records (can be mixed), monaurally. (See page 17 for accessory plug-in head with 78-rpm cartridge installed). The new KN-2000 3-way speaker system will astonish you with its sparkling reproduction from a unit this small. Changer base and enclosure in mahogany, limed oak or walnut—specify choice when ordering. System operates from 110-120 volt, 60 cycle AC. Shpg. wt., 79 lbs.

36 HF 531. Only \$20.90 Down. NET..... 209.00

Top-Value knight "Bantam" 20-Watt System

ONLY

\$229.50

You Save \$23.63

- "Bantam" 20-Watt Stereo Amplifier
- G.E. Cartridge—Diamond Needle
- Garrard Changer with Base
- Knight 12" 3-Way Speaker Installed in "Ducted Port" Enclosure

You'll enjoy listening to authentic hi-fi reproduction from records with this super-value phono system. Selected by Allied's audio experts, this first-rate combination of components saves you \$23.63. System includes: new Knight KN-720 "Bantam" 20-Watt Stereo Amplifier; Garrard RC88-4 4-Speed Record Changer with Base; new G.E. GC-7 Stereo Magnetic Cartridge installed in Garrard plug-in head, and with Single .0007" Diamond Needle; Knight KN-800 12", 3-Way Speaker installed in the Knight KN-1260 "Ducted Port" Enclosure; all cables, plastic changer cover and complete instructions.

The KN-720 stereo amplifier is the latest version of the famous "Bantam" units and it offers complete control versatility for either monaural or stereo use. It has inputs for accommodating an FM-AM tuner, tape deck, etc. G.E.'s new stereo cartridge plays stereo and microgroove LP records (can be mixed), monaurally. (See page 17 for accessory plug-in head with 78-rpm cartridge installed). The KN-800 speaker and KN-1260 enclosure offer rich, natural sound. Enclosure styling is suitable to any room decor. Changer base and enclosure in mahogany, limed oak or walnut—specify choice when ordering. For 110-120 v., 60 cycle AC. Shpg. wt., 83 lbs.

36 HF 532. Only \$22.95 Down. NET..... 229.50

One Substitution Allowed in Allied Hi-Fi Systems



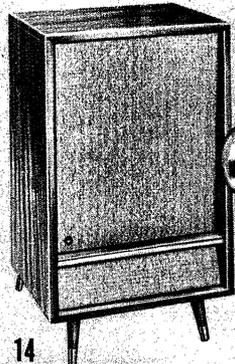
Knight KN-720 Stereo Amplifier



New G.E. GC-7 Stereo Cartridge



Garrard RC88-4 Record Changer with Base



Knight KN-800 12" Speaker in KN-1260 Enclosure

CONVERT TO STEREO ANYTIME!

FOR SUPERB HIGH-FIDELITY SOUND

Choose one of these Allied Special-Value phono systems for perfectly balanced reproduction from records and lifelike, hi-fi sound. Savings are biggest—components are perfectly matched—and at your convenience, add a second speaker to any of these systems for stereo sound.

Deluxe Knight 34-Watt Phono System

ONLY
~~\$309.00~~

Save \$18.06

- Deluxe 34-Watt Stereo Amplifier
 - Pickering Cartridge & Diamond
 - Garrard Changer with Base
 - Popular Knight 12" Speaker
- Installed in Corner Horn Enclosure

Thrilling sound from records—forward-looking design—and smooth, dependable operation. This highly efficient, 34-watt system features deluxe components throughout—at a savings of \$18.06. System includes: new Knight KN-734 34-Watt Stereo Amplifier; Garrard RC88-4 4-Speed Record Changer with Base; new Pickering 371 Stereo Magnetic Cartridge installed in Garrard plug-in head, and with Single .0007" Diamond Needle; Knight KN-800 3-Way, 12" Speaker installed in the Knight KN-1250 Corner Horn Enclosure; all cables and instructions.

The versatile Knight KN-734 stereo amplifier provides 17-watt output per channel for full 34-watt output in monaural use, with full set of controls. Pickering's 371 cartridge is a model of precise design and outstanding performance. Plays new stereo and microgroove LP records monaurally. (See page 17 for accessory plug-in head with 78-rpm cartridge installed). The Knight speaker in KN-1250 enclosure offers brilliant sound. Changer base and speaker enclosure available in mahogany, limed oak or walnut—specify your choice when ordering. System operates from 110-120 v., 60 cycle AC. Shpg. wt., 104 lbs.
36 HF 533. Only \$30.90 Down. NET..... 309.00

knight 34-Watt System With Deluxe Speaker

ONLY
~~\$331.50~~

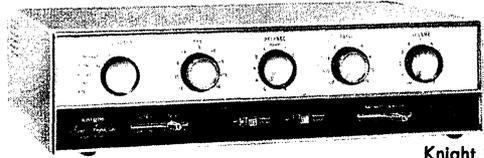
Save \$18.73

- Deluxe 34-Watt Stereo Amplifier
- New G.E. Cartridge—Diamond Needle
- Garrard RC88-4 Changer with Base
- Deluxe Knight 12" Speaker Installed in Highly Attractive Enclosure

A splendid hi-fi phono system that features matched components, designed to bring you top performance from your records. Additionally, this first-rate combination of deluxe components brings you Allied System Plan savings of \$18.73 over cost of components purchased separately. System includes: new Knight KN-734 34-Watt Stereo Amplifier; Garrard RC88-4 Record Changer with Base; new G.E. GC-7 Stereo Magnetic Cartridge installed in Garrard plug-in head, with Single .0007" Diamond Needle; Knight KN-812 Deluxe 12", 3-Way Speaker installed in the new Knight KN-1215 "Dual-Duct" Enclosure; all cables and instructions.

Knight's finest stereo amplifier, the KN-734, is the "heart" of this excellent system. Its two 17-watt channels provide full 34-watt monaural output. G.E.'s new stereo cartridge plays all stereo and microgroove LP records monaurally. (See page 17 for accessory plug-in head with 78-rpm cartridge installed). The KN-812 speaker in the "Dual-Duct" enclosure provides excellent sound across the entire audio range. Enclosure styling is smart and distinctive. Changer base and speaker enclosure in mahogany, limed oak or walnut—specify choice when ordering. System operates from 110-120 v., 60 cycle AC. Shpg. wt., 158 lbs.
36 HF 535. Only \$33.15 Down. NET..... 331.50

Allied is Headquarters for High-Fidelity Equipment



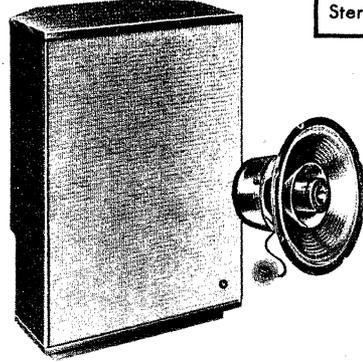
Knight KN-734 Stereo Amplifier



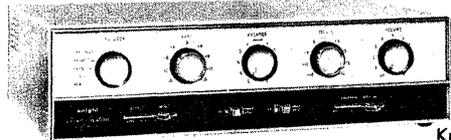
Garrard RC88-4 Record Changer with Base



Pickering 371 Stereo Cartridge



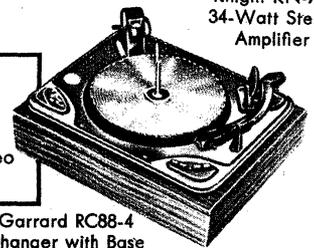
Knight KN-800 12" Speaker Installed in Knight KN-1250 Enclosure



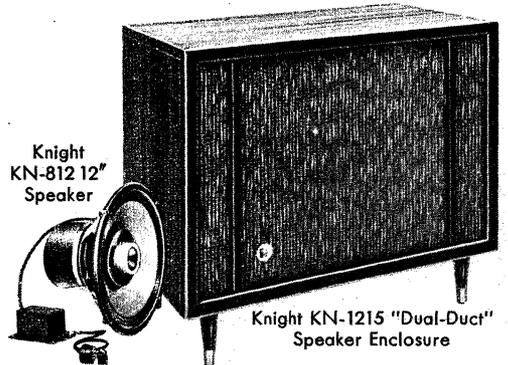
Knight KN-734 34-Watt Stereo Amplifier



G.E. GC-7 Stereo Cartridge



Garrard RC88-4 Changer with Base



Knight KN-812 12" Speaker

Knight KN-1215 "Dual-Duct" Speaker Enclosure



NOW! ADD STEREO TO YOUR PRESENT HI-FI SYSTEM

ENJOY ALL THAT FULL DIMENSIONAL HIGH-FIDELITY HAS TO OFFER



Knight KN-510 Amplifier

E-V 26MDST Stereo Cartridge



Knight KN-510 Amplifier



G.E. GC-7 Stereo Cartridge



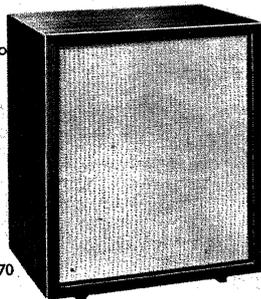
Knight KN-808 8" Speaker



Argos TSE-1 Enclosure



Knight KN-800 12" Speaker



Knight KN-1270 Enclosure

Add dazzling stereo to your present hi-fi system with this complete 10-watt "add-on" system—priced to fit any budget.

Thrill to the wonders of stereo by adding this economical, beautifully performing package to your present hi-fi system.

Low-Cost knight "Add-On" Stereo System

ONLY
\$74.50

You Save \$17.61

- Knight KN-510 10-Watt Amplifier
- Knight KN-808 8" Hi-Fi Speaker
- Argos TSE-1 Speaker Enclosure
- E-V 26MDST Stereo Cartridge
- Pickup Arm Conversion Kit

Add this exceptionally low-cost "add-on" package to your hi-fi system for thrilling stereo sound. Allied's price saves you \$17.61 on the total cost of components. E-V's stereo cartridge has diamond LP needle and sapphire for 78's. Arm conversion kit is 91 S 592, below right. Enclosure has attractive leatherette finish. Specify mahogany or blonde. Wt., 31 lbs.

36 HF 655. Only \$7.45 Down. NET..... 74.50

SYSTEM WITH CHANGER. As above, but includes stereo-wired Collaro TSC-740 4-speed changer and base. Specify choice of finish. Shpg. wt., 50 lbs. Save \$25.72.

36 HF 656. Only \$10.90 Down. NET..... 109.00

Economical knight Stereo "Add-On" System

ONLY
\$124.50

You Save \$14.46

- Knight KN-510 10-Watt Amplifier
- Knight KN-800 12" Speaker
- Knight KN-1270 Enclosure
- G.E. GC-7 Stereo Cartridge
- Pickup Arm Conversion Kit

Convert your hi-fi system for dazzling stereo with this economical "add-on" package—at savings of \$14.46 over the total cost of components. G.E.'s stereo cartridge has diamond LP needle. See page 17 for 78 rpm cartridge. Arm conversion kit is 91 S 592, below. Bass reflex enclosure has a wood-grained finish. Specify mahogany, limed oak or walnut. Shpg. wt., 63 lbs.

36 HF 657. Only \$12.45 Down. NET..... 124.50

SYSTEM WITH CHANGER. As above, but includes stereo-wired Garrard RC121/II 4-speed changer and base. Specify finish. Shpg. wt., 81 lbs. Save \$21.08.

36 HF 654. Only \$16.00 Down. NET..... 159.95

IMPORTANT NOTES ON STEREO "ADD-ON" HI-FI SYSTEMS

A COMPLETE STEREO conversion kit for your present changer is supplied with each Allied-recommended stereo "add-on" package. Kit (at right) is easily installed—no soldering required.

ALL RECORD CHANGERS listed in stereo "add-on" systems are completely pre-wired for stereo—even the stereo cartridge is installed, ready to play.

ALL LP RECORDS can be played on a system with stereo cartridge. An accessory cartridge and needle for 78's (see p. 17) is required for systems with Pickering or G.E. stereo cartridges.

LAB-TRONICS CONVERSION ACCESSORIES FOR STEREO



TS-9



SM-6



SM-7



MODEL SM-7 STEREO-MONAUURAL-REVERSE SWITCH. For stereo systems which do not have a stereo preamp. Provides instant switching from monaural to stereo—plus channel reversing. 1½x2x2". Wt., 1 lb.
91 S 588. NET..... 2.06

MODEL SM-6 STEREO-MONAUURAL SWITCH. As above, but without the channel reverse feature. Wt., 1 lb.
91 S 587. NET..... 1.76

MODEL TS-9 PHASING SWITCH. For phasing speakers. 1½x2x2". 1 lb.
91 S 591. NET..... 1.59

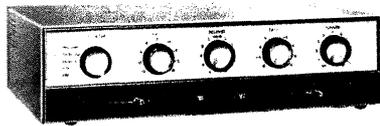
UNIVERSAL STEREO CONVERSION KIT. Stereo conversion kit for converting changers (other than Garrard) for stereo. See page 17 for listings covering Garrard changers. Supplied with add-on systems which do not include stereo-wired changers.

Kit consists of pickup arm cable for 3 or 4 terminal cartridges, stereo-monaural switch, output cables with molded-on plugs, accessory clips and detailed instructions. Requires no soldering. Less cartridge. 1 lb.
91 S 592. NET..... 4.09

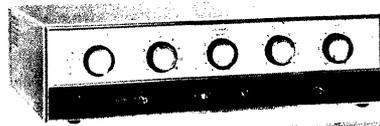
Speaker Systems May Be Substituted in Any Allied Stereo "Add-On" Package

ENJOY ALL THAT HIGH-FIDELITY HAS TO OFFER. Stereo is the most exciting advance in home entertainment since hi-fi began—it brings you the clearest, most realistic music reproduction you have ever heard.

IT'S EASY TO ADD STEREO. Convert your high-fidelity system for playing stereo by adding an Allied "Add-On" package. With only a few simple connections, you'll be all set for dazzling 3-dimensional sound.



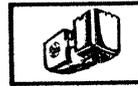
Knight KN-734 Stereo Amplifier



Knight KN-734 Stereo Amplifier



G.E. GC-7 Stereo Cartridge

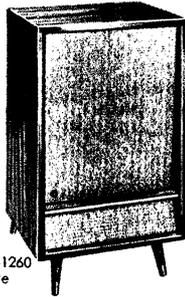


G.E. GC-7 Stereo Cartridge

Knight KN-800 12" Speaker



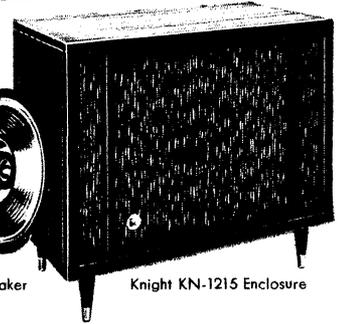
Knight KN-1260 Enclosure



Knight KN-810 15" Speaker



Knight KN-1215 Enclosure



Versatility keynotes this moderately priced stereo "add-on" package—ideal for converting your present hi-fi system.

Superior performance and up-to-the-minute styling highlights this deluxe "add-on" package—graces any decorative scheme.

Versatile knight Stereo "Add-On" System

Deluxe knight Stereo "Add-On" System

ONLY

ONLY

- KN-734 34-Watt Stereo Amplifier
- KN-800 12" 3-Way Hi-Fi Speaker
- KN-1260 Ducted-Port Enclosure
- G.E. GC-7 Stereo Cartridge

- KN-734 34-Watt Stereo Amplifier
- KN-810 15" 3-Way Hi-Fi Speaker
- KN-1215 Dual Ducted-Port Enclosure
- G.E. GC-7 Stereo Cartridge

You Save \$19.51

You Save \$32.01

Add exciting stereo to your hi-fi system—save \$19.51 on the total cost of components. Use the KN-734 as a 34-watt stereo channel with your present amplifier as the second channel—the built-in stereo preamp of the KN-734 provides centralized control of both channels. Speaker enclosure is finished in hand-rubbed veneers. With 91 S 592 conversion kit for your changer. Specify mahogany, limed oak or walnut. Shpg. wt., 74 lbs. 36 HF 653. Only \$22.90 Down. NET..... 229.00

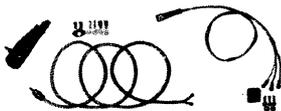
An ultra-deluxe "add-on" package—yours at savings of \$32.01. Use the KN-734 as a 34-watt stereo channel with your present amplifier as the second channel—the built-in stereo preamp of the KN-734 provides centralized control of both channels. Sparkling performance is delivered by the 15" 3-way speaker. With 91 S 592 changer conversion kit. Speaker enclosure in mahogany, limed oak or walnut—specify. Shpg. wt., 117 lbs. 36 HF 651. Only \$24.95 Down. NET..... 249.50

SYSTEM WITH CHANGER. As above, but includes stereowired Garrard RC88-4 4-speed changer and base. Specify enclosure finish. Shpg. wt., 85 lbs. Save \$23.18. 36 HF 652. Only \$27.95 Down. NET..... 279.50

SYSTEM WITH CHANGER. As above, but includes stereowired Garrard RC88-4 4-speed changer and base. Specify enclosure finish. Shpg. wt., 128 lbs. Save \$36.18. 36 HF 650. Only \$29.95 Down. NET..... 299.50

GARRARD CONVERSION KITS

ACCESSORY CARTRIDGES IN PLUG-IN HEADS



MODEL SCK-1. Complete conversion kit for modernizing most Garrard changers for stereo. Converts the following models: RC121, RC88, RC98 and T Mk. II. Kit consists of plug-in head, female connector, pick-up arm cable, terminal block, output cables, hardware and detailed instructions. No soldering required. Less cartridge. Shpg. wt., 3/4 lb. 79 R 248. NET..... 4.85

MODEL SCK-2. Complete conversion kit as described above, but for the Garrard RC121-II changer. Less cartridge. Shpg. wt., 3/4 lb. 79 R 249. NET..... 4.85

GARRARD-G.E. G.E. GC-7 stereo cartridge with diamond LP needle in Garrard head—ready to plug in and use. No. 1 fits Garrard RC121, RC88, RC98 and T Mk II; No. 2, RC121-II, 4HF. Shpg. wt., 9 oz. 69 SC 998. No. 1. NET..... 23.47 69 SC 999. No. 2. NET..... 23.47

GARRARD-PICKERING. Pickering 371 stereo cartridge with diamond LP needle in Garrard head—ready to plug in and use. Fits tone arm of Garrard Models RC88 and RC98 changers. Shpg. wt., 9 oz. 64 RC 899. No. 1. NET..... 29.85

GARRARD-G.E. G.E. 4G-040 cartridge with .003" sapphire needle (78-rpm) in Garrard head. No. 1 fits RC121, RC88, RC98 and T Mk II; No. 2, RC121-II, 4HF. Wt., 9 oz. 69 SC 981. No. 1. NET..... 7.89 69 SC 982. No. 2. NET..... 7.89

COLLARO-G.E. G.E. 4G-040 cartridge with .003" sapphire needle (78-rpm) in Collaro head. For Collaro TSC-740 and TSC-840. Shpg. wt., 9 oz. 69 SC 983. NET..... 8.34

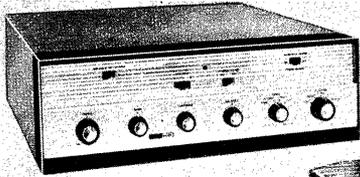




RECOMMENDED STEREO CONVERSION SYSTEMS . . .

JUST ADD TO YOUR PRESENT HI-FI SYSTEM
If you now have a monaural hi-fi system, you may easily convert it for playing stereo discs by adding a stereo cartridge to your changer or turntable, plus another amplifier and speaker for reproducing the second sound channel.

YOU SAVE WITH AN ALLIED "ADD-ON" SYSTEM
All Allied "Add-On" systems—either with components recommended by our experts or selected by you—are top values. You pocket giant savings over the total cost of the components if purchased separately.



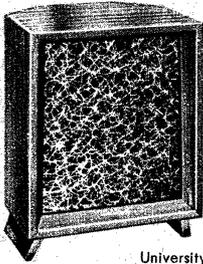
Harman-Kardon
AX20 "Add-On"
Amplifier



G.E. GC-7 Stereo
Cartridge



University
UXC-122
12" Speaker



University
"Tiny Mite"
Enclosure

"Add-On" System with H-K AX20 Amplifier

ONLY

\$179⁵⁰

You Save \$32.03

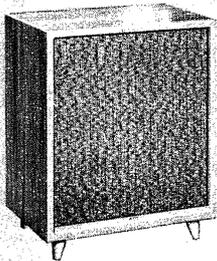
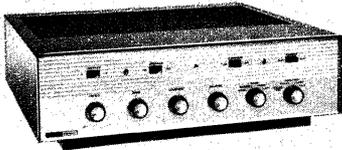
Add this system to your present hi-fi phono system for dazzling stereo sound—at savings of \$32.03. System includes: Harman-Kardon AX20 20-Watt Amplifier with built-in Stereo Preamplifier and Case; G.E. GC-7 Stereo Cartridge with Diamond LP Needle; Universal Stereo Conversion Kit (see page 16); University "Tiny Mite" Speaker Enclosure; University UXC-122 12" Speaker Installed. With this system, you can use your present amplifier as a basic unit—the versatile AX20 becomes a complete control center. Enclosure is available in fine furniture veneers, hand-rubbed to a lustrous finish. Specify mahogany, blonde or walnut when ordering. Shpg. wt., 53 lbs.

36 HF 736. Only \$17.95 Down. NET.....179.50

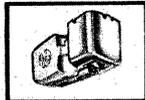
SYSTEM AS ABOVE, WITH CHANGER. Save \$34.10. With stereo-wired Garrard RC121-II 4-speed changer and base. Cartridge is installed in changer. Specify finishes. Shpg. wt., 71 lbs.

36 HF 737. Only \$21.95 Down. NET.....219.50

H-K A224
Stereo
Amplifier.



Jensen
BL-812
Enclosure



G.E. GC-7 Stereo
Cartridge



Jensen DX-120
12" Speaker

"Add-On" System with H-K A224 Amplifier

ONLY

\$189⁵⁰

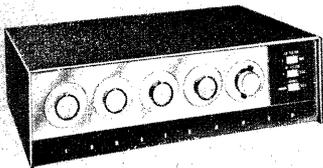
You Save \$32.01

Use your present hi-fi system with these "add on" stereo components for wonderful stereo sound—the system price saves you \$32.01. Includes: Harman-Kardon A224 24-Watt Amplifier with built-in Stereo Preamplifier and Case; G.E. GC-7 Stereo Cartridge with Diamond LP Needle; Universal Stereo Conversion Kit (see page 16); Jensen BL-812 Speaker Enclosure; Jensen DX-120 12" 2-Element Speaker. Your present amplifier serves as a basic unit with this system—centralized control is provided by the A224. Speaker enclosure is finished in beautiful hand-rubbed veneers. Available in choice of mahogany or walnut—please specify when ordering. Shpg. wt., 56 lbs.

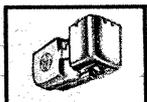
36 HF 738. Only \$18.95 Down. NET.....189.50

SYSTEM AS ABOVE, WITH CHANGER. Save \$34.08. With stereo-wired Garrard RC121-II 4-speed changer and base. Cartridge is installed in changer. Specify finishes. Shpg. wt., 74 lbs.

36 HF 739. Only \$22.95 Down. NET.....229.50



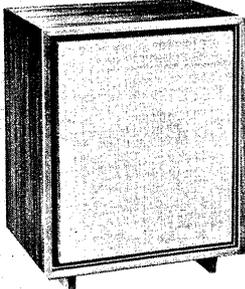
Bogen AC210
Stereo
Amplifier



G.E. GC-7 Stereo
Cartridge



E-V LS-12
12" Speaker



E-V "Lancaster"
Enclosure

"Add-On" System with Bogen AC210 Amplifier

ONLY

\$154⁵⁰

You Save \$40.51

Combine your present hi-fi phono system with these excellent "add-on" components—the system price saves you \$40.51. Includes: Bogen AC210 20-Watt Amplifier with Stereo Preamp; G.E. Stereo Cartridge with Diamond LP Needle; Universal Stereo Conversion Kit (see page 16); E-V "Lancaster" Speaker Enclosure; E-V LS-12 12" Speaker. Use your present amplifier as a basic unit—all the controls for stereo are on the AC210. E-V's space-sparing enclosure, with speaker installed, has a beautiful wood-grained finish. Specify mahogany, blonde or walnut. Shpg. wt., 45 lbs.

36 HF 740. Only \$15.45 Down. NET.....154.50

SYSTEM AS ABOVE, WITH CHANGER. Save \$42.58. With stereo-wired Garrard RC121-II 4-speed changer and base. Cartridge is installed in changer. Specify finishes. Shpg. wt., 53 lbs.

36 HF 741. Only \$19.45 Down. NET.....194.50

"Add-On" System with Scott 130 Stereo Preamp

ONLY

~~\$440.00~~

You Save \$61.29

Realize the full possibilities of lifelike stereo reproduction by combining your present high-fidelity system and this superb "add-on" system—at savings of \$61.29. System includes: Scott

130 Stereo Preamp with Case; Scott 250 40-Watt Basic Amplifier; Pickering 371 Stereo Cartridge with Diamond LP Needle; Universal Stereo Conversion Kit (see page 16); Stephens 1217 Speaker Enclosure with the 120FR 12" Full-Range Speaker Installed. Use your present amplifier as a basic unit—the highly versatile 130 preamp has a full set of controls for any music source. Beautiful enclosure in hand-rubbed veneers. Specify mahogany or walnut when ordering. Shpg. wt., 119 lbs.

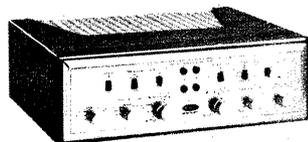
36 HF 742. Only \$44.00 Down. NET..... 440.00

SYSTEM AS ABOVE, WITH CHANGER. Save \$65.46. With stereo-wired Garrard RC88-4 4-speed changer and base. Cartridge is installed in changer. Specify enclosure finish. Shpg. wt., 139 lbs.

36 HF 743. Only \$49.00 Down. NET..... 490.00



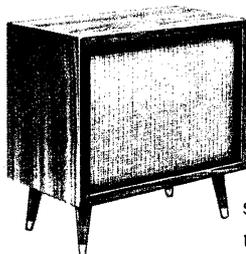
Pickering 371 Stereo Cartridge



Scott 130 Stereo Preamp



Scott 250 Basic Amplifier



Stephens 1217 Enclosure & 120FR Speaker

"Add-On" System with Pilot 210 Preamp

ONLY

~~\$319.00~~

You Save \$43.44

Expand your present hi-fi phono system with this perfectly matched "add-on" system and vividly recreate the wondrous realism of stereophonic sound—in your own home. At Allied's special

price, you pocket savings of \$43.44 over total cost of components. System includes: Pilot 210 Stereo Preamp; Pilot SA-232 32-Watt Basic Stereo Amplifier; Pickering 371 Stereo Cartridge with Diamond LP Needle; Universal Stereo Conversion Kit (see page 16); Jensen CN100 3-Way Speaker System. Your present amplifier serves as a basic unit—the 210 preamp has fully integrated stereo controls. Jensen's speaker system has a lustrous, hand-rubbed veneered finish to complement any decor. Speaker enclosure in mahogany or walnut—specify when ordering. Shpg. wt., 102 lbs.

36 HF 744. Only \$31.90 Down. NET..... 319.00

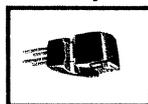
SYSTEM AS ABOVE, WITH CHANGER. Save \$47.61. Same as system described above, but with stereo-wired Garrard RC88-4 4-speed record, changer and base. Cartridge is installed in changer. Specify enclosure finish when ordering. Shpg. wt., 122 lbs.

36 HF 745. Only \$36.90 Down. NET..... 369.00

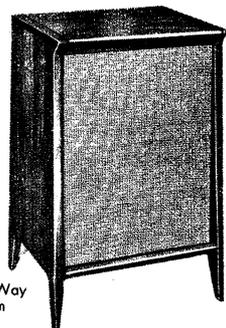


Pilot 210 Stereo Preamp

Pickering 371 Stereo Cartridge



Pilot SA-232 Basic Stereo Amplifier



Jensen CN100 3-Way Speaker System

"Add-On" System with Fisher C400 Preamp

ONLY

~~\$419.00~~

You Save \$48.31

Everything you need for adding thrilling stereophonic sound to your hi-fi system—at savings of \$48.31. System includes: Fisher C400 Stereo Preamp with Case; Fisher 100 30-Watt Basic Amplifier;

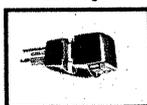
Pickering Stereo Cartridge with Diamond LP Needle; Universal Stereo Conversion Kit (see page 16); Electro-Voice "Marquis" Enclosure with the 12TRX-B 12" 3-Way Speaker Installed. Simply use your present amplifier as a basic unit—the C400 preamp has a full set of stereo controls. Finished in lustrous, hand-rubbed veneers, the beautiful "Marquis" enclosure is perfectly suited for any decorative interior. Enclosure is available in mahogany, lined oak or walnut—please specify your choice when ordering. Shpg. wt., 103 lbs.

36 HF 746. Only \$41.90 Down. NET..... 419.00

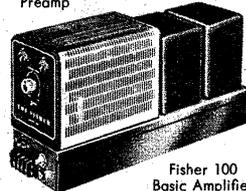
SYSTEM AS ABOVE, WITH CHANGER. Save \$52.48. With stereo-wired Garrard RC88-4 4-speed changer and base. Cartridge is installed in changer. Specify enclosure finish. Shpg. wt., 123 lbs.

36 HF 747. Only \$46.90 Down. NET..... 469.00

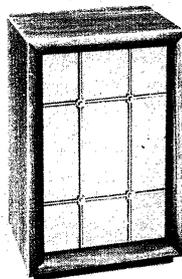
Pickering 371 Stereo Cartridge



Fisher C400 Stereo Preamp



Fisher 100 Basic Amplifier



E-V "Marquis" Enclosure & 12TRX-B Speaker

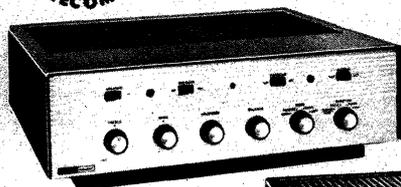
WRITE FOR SYSTEM PLAN PRICES. If you wish to select a high-fidelity system with components of your own choosing, simply list the make and model number of

each component, and write for Allied's special system price. You'll realize king-size savings—plus all the Allied System Plan extras.



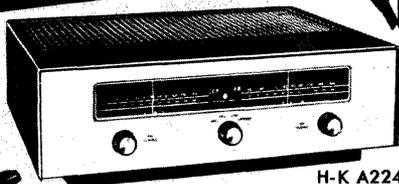
ALLIED-RECOMMENDED HI-FI MUSIC SYSTEMS FEATURING

COMPLETE STEREO SYSTEMS



H-K A224
Stereo
Amplifier

H-K T224
FM-AM Stereo Tuner

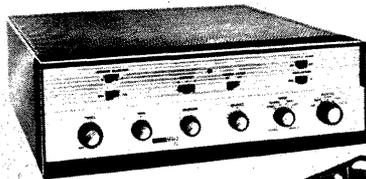
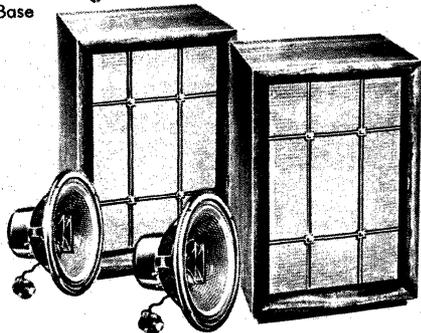


Garrard
RC88-4 & Base

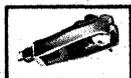


G.E. GC-7 Stereo
Cartridge

2—E-V
"Marquis"
Enclosures;
2—E-V
12TRX-B
Speakers



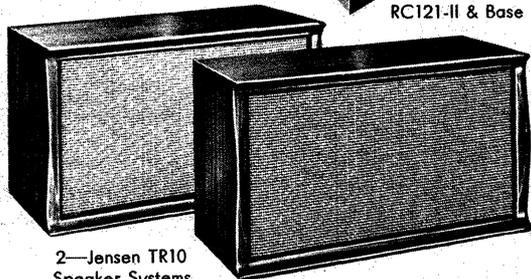
H-K A250
Stereo
Amplifier



G.E. GC-7 Stereo
Cartridge



Garrard
RC121-II & Base



2—Jensen TR10
Speaker Systems



Stereo Phono System with A224 Amplifier

H-K A224 24-Watt Stereo Amplifier With Case.....	\$106.95
Garrard RC88-4 4-Speed Changer & Base.....	58.26
G.E. GC-7 Stereo Cartridge—Diamond LP Needle.....	23.47
Two E-V "Marquis" Speaker Enclosures.....	129.36
Two E-V 12 TRX-B 12" 3-Way Speakers.....	123.48
TOTAL REGULAR CATALOG PRICE.....	\$441.52
ALLIED SYSTEM PRICE.....	369.00
YOU SAVE.....	\$ 72.52

SYSTEM PRICE

~~\$369.00~~

\$36.90 Down

Bring thrilling stereo performances into your home with this complete money-saving stereo phono system. The versatile 24-watt amplifier becomes two 12-watt amplifiers at the flick of a switch. E-V's enclosures have hand-rubbed, fine furniture veneers—add a touch of elegance to any room. For 110-120 v., 60 cycle AC. Specify mahogany, limed oak or walnut. Shpg. wt., 170 lbs.

36 HF 711. Only \$36.90 Down. NET..... 369.00

FM-AM-PHONO SYSTEM: Save \$83.97. As above, but includes H-K T224 "Duet" FM-AM tuner. Specify finish of enclosure when ordering. Shpg. wt., 183 lbs.

36 HF 712. Only \$47.25 Down. NET..... 472.50

Stereo Phono System with A250 Amplifier

H-K A250 50-Watt Stereo Amplifier With Case... \$192.45	
Garrard RC121-II 4-Speed Changer & Base..... 46.16	
G.E. GC-7 Stereo Cartridge—Diamond LP Needle. 23.47	
Two Jensen TR10 Speaker Systems..... 229.00	
TOTAL REGULAR CATALOG PRICE.....	\$491.08
ALLIED SYSTEM PRICE.....	425.00
YOU SAVE.....	\$ 66.08

SYSTEM PRICE

~~\$425.00~~

\$42.50 Down

Hear the finest in musical entertainment come to life through the magic of stereo—re-created at your command! This complete stereo phono system has been carefully selected by our own

audio experts—at a special Allied price that saves you \$66.08 over the cost of components if purchased separately. Features the A250 amplifier—a versatile unit that delivers 25 watts per channel for stereo reproduction, or 50 watts monaurally. Space-sparing in design, the speaker systems have fine, hand-rubbed veneers and blend harmoniously with any furnishing mode. The stereo cartridge will play any microgroove record—see page 17 for plug-in head with 78-rpm accessory cartridge installed. As in all Allied phono systems, a plastic record changer cover and color-coded cables are included. For 110-120 v., 60 cycle AC. Specify mahogany or walnut. Shpg. wt., 151 lbs.

36 HF 713. Only \$42.50 Down. NET..... 425.00

Speaker Systems May Be Substituted in Stereo Systems

harman kardon COMPONENTS

Stereo FM-AM-Phono System with TP200

H-K TP200 Stereo FM-AM Tuner-Preamp..... \$189.95
 H-K 250 Dual 25-Watt Stereo Basic Amplifier..... 99.95
 Garrard RC121-II 4-Speed Changer & Base..... 46.16
 G.E. GC-7 Stereo Cartridge—Diamond LP Needle... 23.47
 2—Wellcor S8-12 Speaker Enclosures..... 103.50
 2—University UXC-122 12" 2-Way Speakers..... 64.68

TOTAL REGULAR CATALOG PRICE..... \$527.71
 ALLIED SYSTEM PRICE..... 485.00

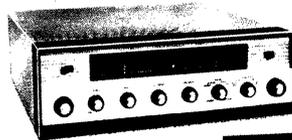
YOU SAVE..... \$ 42.71

SYSTEM PRICE

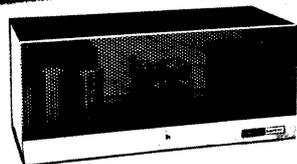
Exceptional versatility and thrilling performance keynote this complete stereo system. Contains everything needed for breathtaking stereo reproduction from records and radio—at giant savings of \$42.71. Features a fully integrated FM-AM tuner-preamp and a powerful, dual 25-watt stereo basic amplifier. Enclosures, with speakers installed, have beautifully finished hand-rubbed veneers. For 110-120 v., 60 cycle AC. Specify mahogany, limed oak or walnut. Shpg. wt., 155 lbs.

\$48.50 Down

36 HF 715. Only \$48.50 Down. NET..... 485.00



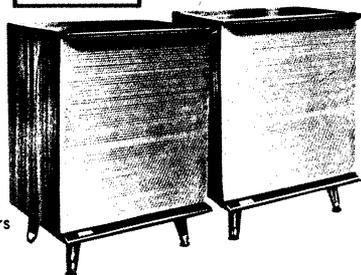
H-K TP200 Stereo Tuner-Preamp



H-K 250 Stereo Amplifier



Garrard RC121-II Changer & Base; G.E. GC-7 Stereo Cartridge



2—Wellcor Enclosures; 2—University UXC-122 Speakers

Phono System with AX20 Preamp-Amplifier

H-K AX20 20-Watt Stereo Amplifier With Case.... \$108.90
 Collaro TSC-740 4-Speed Changer & Base..... 46.60
 G.E. GC-7 Stereo Cartridge—Diamond LP Needle... 23.47
 E-V "Empire" Speaker Enclosure..... 97.02
 E-V SP15-B 15" "Radax" Speaker..... 42.14

TOTAL REGULAR CATALOG PRICE..... \$318.13
 ALLIED SYSTEM PRICE..... 259.00

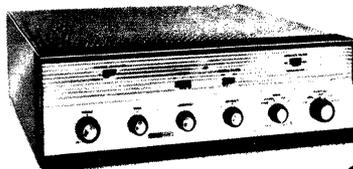
YOU SAVE..... \$ 59.13

SYSTEM PRICE

A superb hi-fi phono system at special savings of \$59.13. Features the H-K AX20—a complete control center consisting of two pre-amplifiers and a single 20-watt amplifier on a single chassis. System plays microgroove records and new stereo discs monaurally—add a basic amplifier and another speaker to play stereo discs stereophonically. Finished in hand-rubbed, fine furniture veneers, the enclosure is expertly designed to grace the most dignified of settings. Includes all the Allied extras—color-coded cable, changer cover, etc. For 110-120 v., 60 cycle AC. Specify mahogany, limed oak or walnut. Shpg. wt., 111 lbs.

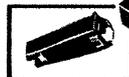
\$25.90 Down

36 HF 714. Only \$25.90 Down. NET..... 259.00

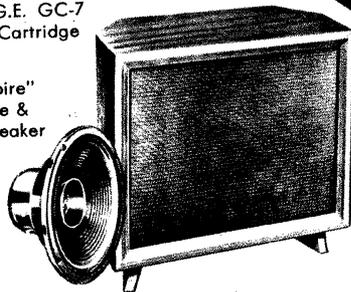


H-K AX20 Stereo Preamp-20-Watt Amplifier

Collaro TSC-740 Changer, Base, and G.E. GC-7 Cartridge



E-V "Empire" Enclosure & SP15-B Speaker



MONEY-SAVING HI-FI SYSTEMS FEATURING HARMAN-KARDON COMPONENTS

You can convert these systems to stereo at any time—just add another amplifier and speaker system.

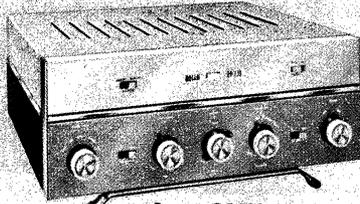
Amplifier	Changer	Cartridge	Speaker System	Finishes	Lbs.	Stock No.	NET EACH
 A224 With Case	 Garrard RC121-II With Base	 G.E. GC-7 Stereo	 Jensen BL-812 & DX12C Speaker	Specify Mahogany or Walnut Veneer	74	36 HF 716	235.00
 A10	 Collaro TSC-740 With Base	 G.E. GC-7 Stereo	 E-V "Coronet" & LS-8	Specify Mahogany, Limed Oak or Walnut Veneer	54	36 HF 717	149.50
 A250 With Case	 Garrard RC88-4 With Base	 G.E. GC-7 Stereo	 University EN-12 & UXC-123	Specify Mahogany, Blonde or Walnut Veneer	119	36 HF 718	375.00

High-Fidelity Systems Are Available on Allied's Easy Payment Plan—See Page 444

ALLIED-RECOMMENDED TOP-VALUE HI-FI SYSTEMS . . .



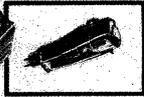
Garrard RC88-4
Changer & Base



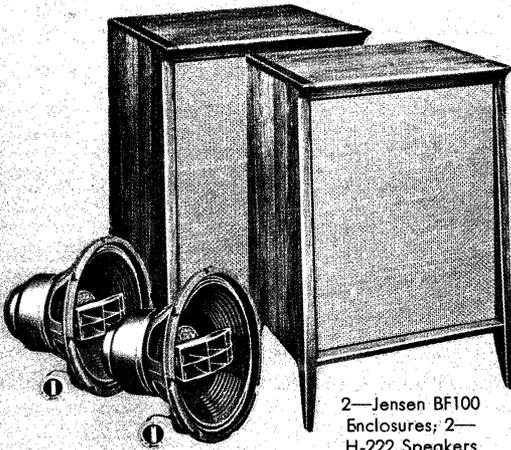
Bogen DB230
Stereo Amplifier



Bogen ST662
FM-AM Stereo Tuner



Pickering
371 Stereo
Cartridge



2—Jensen BF100
Enclosures; 2—
H-222 Speakers

SAVE ON THESE STEREO SYSTEMS

System Featuring Bogen DB230 Amplifier

Bogen DB230 60-Watt Stereo Amplifier & Case . . .	\$177.50
Garrard RC88-4 4-Speed Changer & Base	58.26
Pickering 371 Stereo Cart.—Diamond LP Needle . .	29.85
2—Jensen BF100 Speaker Enclosures	139.00
2—Jensen H-222 12" Coaxial Speakers	125.00
TOTAL REGULAR CATALOG PRICE	\$529.61
ALLIED SYSTEM PRICE	429.00

YOU SAVE \$100.61

SYSTEM PRICE

\$429⁰⁰

Save \$100.61

Everything you need for breath-taking stereophonic sound from stereo discs—at savings of \$100.61 over total cost of individual components. Providing excellent versatility, the amplifier becomes two 30-watt amplifiers for stereo reproduction or one powerful 60-watt amplifier for monaural use. Beautifully designed enclosures have hand-rubbed furniture veneers. See page 17 for 78 rpm cartridge. For 110-120 v., 60 cycle AC. Specify mahogany or walnut finish. Shpg. wt., 192 lbs.

36 HF 700. *Only \$42.90 Down.* **NET 429.00**

FM-AM-PHONO SYSTEM. Save \$120.61! As above, but with the Bogen ST662 stereo tuner for thrilling stereo broadcast reception. Specify choice of mahogany or walnut enclosure finish when ordering. Shpg. wt., 215 lbs.

36 HF 701. *Only \$60.60 Down.* **NET 606.00**

System Featuring Bogen DB212 Amplifier

Bogen DB212 24-Watt Stereo Amplifier & Case . . .	\$122.50
Garrard RC121-II 4-Speed Changer & Base	46.16
G.E. GC-7 Stereo Cartridge—Diamond LP Needle . .	23.47
2—E-V "Lancaster" Speaker Enclosures	96.00
2—E-V LS-12 "Wolverine" 12" Speakers	39.00
TOTAL REGULAR CATALOG PRICE	\$327.13
ALLIED SYSTEM PRICE	259.95

YOU SAVE \$ 67.18

SYSTEM PRICE

\$259⁹⁵

Save \$67.18

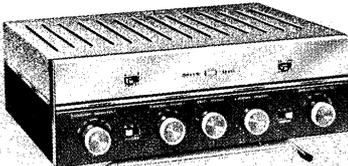
Thrill to the finest musical entertainment with this low-cost, complete stereo phono system—yours at giant savings of \$67.18. Features the versatile Bogen

DB212 amplifier—a 24-watt amplifier that becomes two 12-watt amplifiers at the flick of a switch. Ultra-compact in design, the highly attractive enclosures have beautiful wood grained finishes to match any decorative mode. Two perfectly matched 12" high-fidelity speakers, installed in the enclosures, deliver rich, full-range sound. Plays all microgroove records—see page 17 for plug-in head with 78 rpm accessory cartridge installed. The system can also accommodate a tuner and a tape recorder. For 110-120 v., 60 cycle AC. Specify mahogany, blonde or walnut. Shpg. wt., 89 lbs.

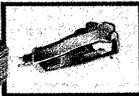
36 HF 702. *Only \$26.00 Down.* **NET 259.95**

See Page 444 for Allied's Easy Payment Plan

Bogen DB212
Stereo
Amplifier

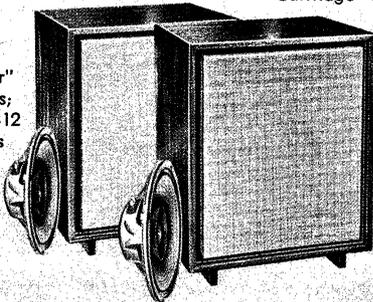


Garrard RC121-II
Changer & Base



G.E. GC-7
Stereo
Cartridge

2—E-V
"Lancaster"
Enclosures;
2—E-V LS-12
Speakers



FEATURING *Bogen* COMPONENTS

Low-Cost Stereo Phono System Featuring AC210 "Challenger" Amplifier

Bogen AC210 Stereo/Monaural Amplifier..... \$ 99.95
 Webcor 1942-1 4-Speed Changer on Base; with
 Ceramic Stereo Cartridge and Sapphire Needles... 43.00
 2—University "Tiny Mite" Enclosures..... 75.46
 2—University UXC-122 12" 2-Way Speakers..... 74.68
TOTAL REGULAR CATALOG PRICE..... \$293.09
ALLIED SYSTEM PRICE..... 229.95
YOU SAVE..... \$63.14

SYSTEM PRICE Save \$63.14 on this complete, budget-sparing stereo system. Compact, hand-rubbed veneered enclosures. For 110-120 v., 60 cycle AC. Specify mahogany, blonde or walnut. Shpg. wt., 91 lbs.
\$229.95
 \$23.00 Down
 36 HF 703. Only \$23.00 Down. NET..... 229.95

FM-AM-PHONO STEREO SYSTEM. Save \$82.64. As above, but includes the Bogen TC200 stereo tuner. Specify enclosure finish when ordering. Shpg. wt., 108 lbs.
 36 HF 704. Only \$34.00 Down. NET..... 339.95

Hi-Fi System with AC10 "Challenger" Amplifier

Bogen AC10 "Challenger" 10-Watt Amplifier..... \$ 55.00
 Collaro TSC-740 4-Speed Changer & Base..... 46.60
 G.E. GC-7 Stereo Cartridge—Diamond LP Needle... 23.47
 Stephens 816 Speaker Enclosure..... 48.00
 Stephens 80FR 8" Full-Range Speaker Installed..... 31.50
TOTAL REGULAR CATALOG PRICE..... \$204.57
ALLIED SYSTEM PRICE..... 159.50
YOU SAVE..... \$45.07

SYSTEM PRICE Space saving, economical hi-fi phono system—at savings of \$45.07. Plays microgroove records and new stereo discs monaurally—add another amplifier and speaker to play stereo discs stereophonically. Compact enclosure is finished in hand-rubbed veneers. For 110-120 v., 60 cycle AC. Specify mahogany or walnut. Wt., 128 lbs.
\$159.50
 \$15.95 Down
 36 HF 705. Only \$15.95 Down. NET..... 159.50

FM-AM-PHONO SYSTEM. Save \$62.12. As above, but includes Bogen TC100 FM-AM tuner. Specify enclosure finish when ordering. Shpg. wt., 141 lbs.
 36 HF 706. Only \$23.00 Down. NET..... 229.95



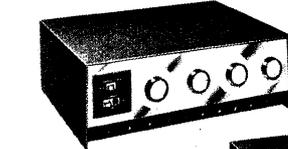
Bogen AC210
Stereo Amplifier



Webcor Changer &
Stereo Cartridge



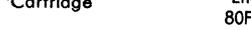
University
"Tiny Mites"
& UXC-122
Speakers



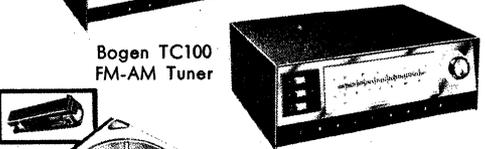
Bogen TC100
FM-AM Tuner



Collaro
TSC-740
& Base; with
G.E. Stereo
Cartridge



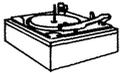
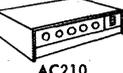
Stephens 816
Enclosure &
80FR Speaker



Bogen AC10
"Challenger"
Amplifier



SAVE UP TO \$35.13!—HIGH-FIDELITY SYSTEMS FEATURING BOGEN AMPLIFIERS

Amplifier	Changer	Cartridge	Speaker System	Finishes	Lbs.	Stock No.	NET EACH
 DB230 With Case	 Garrard RC88-4 With Base	 Pickering 371 Stereo	 Single Jensen CN100	Specify Mahogany or Walnut Veneer	125	36 HF 707	329.95 SAVE 85.16
 DB212 With Case	 Garrard RC121-II With Base	 G.E. GC-7 Stereo	 Single E-V "Lindon" & LS-8	Specify Mahogany, Blonde, or Walnut Grained Finish	64	36 HF 708	194.50 SAVE 50.13
 AC210 With Case	 Collaro TSC-740 With Base	 G.E. GC-7 Stereo	 Single University UXC-123 "Debonaire"	Specify Mahogany, Blonde or Walnut Veneer	78	36 HF 709	229.95 SAVE 64.53
 DB130 With Case	 Garrard RC88-4 With Base	 G.E. GC-7 Stereo	 Single E-V "Aristocrat" 12TRX-B	Specify Mahogany, Lined Oak or Walnut Veneer	107	36 HF 710	279.95 SAVE 69.02

One Substitution Allowed in Allied High-Fidelity Systems

ALLIED-RECOMMENDED MONEY SAVING HI-FI SYSTEMS



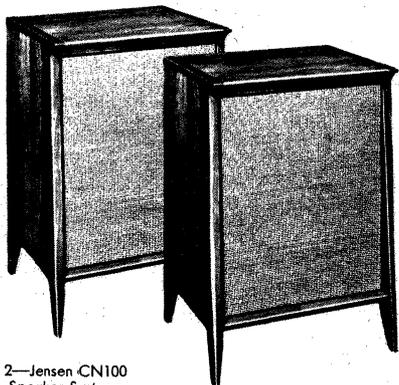
Bell 3030 Stereo Amplifier



Garrard RC88-4 Changer & Base



G.E. GC-7 Stereo Cartridge



2—Jensen CN100 Speaker Systems



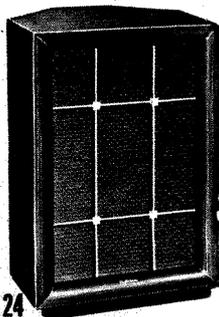
Bell 2325 Amplifier



G.E. GC-7 Stereo Cartridge



Garrard RC121-II Changer & Base



E-V "Aristocrat" Enclosure



E-V 12TRX-B Speaker

Top-Value Hi-Fi Stereo Phono System Featuring the Bell 3030 Stereo Amplifier

Bell 3030 Stereo Monaural Amplifier.....	\$169.95
Garrard RC88-4 4-Speed Changer and Base.....	58.26
G.E. GC-7 Stereo Cartridge—Diamond LP Needle.....	23.47
2—Jensen CN100 3-Way Speaker Systems.....	299.00
TOTAL REGULAR CATALOG PRICE.....	\$550.68
ALLIED SYSTEM PRICE.....	469.00

YOU SAVE.....\$ 81.68

SYSTEM PRICE

~~\$550.68~~

\$46.90 Down

Perfectly balanced, thrilling stereo reproduction from records is yours with this outstanding phono system—and you save \$81.68 over the cost of individual components. Features the Bell

3030 amplifier, an expertly engineered unit that serves as two 15-watt amplifiers or one 30-watt amplifier—on one compact chassis.

The beautifully styled enclosures, with speakers installed, are constructed of hand-rubbed, fine furniture veneers to complement any interior motif. Space sparing in design, this versatile system will also accommodate a tuner and a tape recorder.

Complete with all the Allied system extras—color-coded cables, plastic changer cover, instructions, etc. See page 17 for accessory 78 rpm cartridge. For 110-120 v., 60 cycle AC. Specify choice of mahogany or walnut finish when ordering. Shpg. wt., 172 lbs.

36 HF 719. Only \$46.90 Down. NET..... **469.00**

Phono System Featuring Bell 2325 Amplifier

Bell 2325 20-Watt Amplifier.....	\$109.95
Garrard RC121-II 4-Speed Changer & Base.....	46.16
G.E. GC-7 Stereo Cartridge—Diamond LP Needle.....	23.47
Electro-Voice "Aristocrat" Enclosure.....	70.56
Electro-Voice 12TRX-B 12" 3-Way Speaker.....	64.68

TOTAL REGULAR CATALOG PRICE.....	\$314.82
ALLIED SYSTEM PRICE.....	269.00

YOU SAVE.....\$ 45.82

SYSTEM PRICE

~~\$314.82~~

\$26.90 Down

Featuring perfectly matched components, this handsome hi-fi phono system brings you sparkling sound from records—at savings of \$45.82. Plays micro-groove records and new stereo disc monaurally—add another amplifier and speaker to play stereo discs stereophonically.

The performance of this system fulfills the exacting demands of the perceptive music lover, and the graceful styling blends beautifully with the finest decors. System includes cables, changer cover, etc. See page 17 for accessory 78 rpm cartridge. For 110-120 v., 60 cycle AC. In mahogany, limed oak or walnut—specify when ordering. Shpg. wt., 101 lbs.

36 HF 720. Only \$26.90 Down. NET..... **269.00**

See Page 444 for Allied's Easy Payment Plan

FEATURING *Bell* COMPONENTS

Phono System Featuring Bell 2315 Amplifier

Bell 2315 12-Watt Amplifier.....	\$ 69.55
Garrard RC121-II 4-Speed Changer & Base.....	46.16
G.E. GC-7 Stereo Cartridge—Diamond LP Needle..	23.47
Stephens 1217 Enclosure & 120FR 12" Speaker....	147.50
TOTAL REGULAR CATALOG PRICE.....	\$286.68
ALLIED SYSTEM PRICE.....	249.00
YOU SAVE.....	\$37.68

SYSTEM PRICE Save \$37.68 on this budget-priced hi-fi music system. Enclosure has hand-rubbed furniture veneers. For 110-120 v., 60 cycle AC. Specify mahogany or walnut finish. Shpg. wt., 106 lbs.

\$24.90 Down

36 HF 721. Only \$24.90 Down. NET..... 249.00
FM-AM-PHONO SYSTEM. Save \$48.18! As above, but with Bell 2520 FM-AM tuner. Specify mahogany or walnut finish. Shpg. wt., 120 lbs.

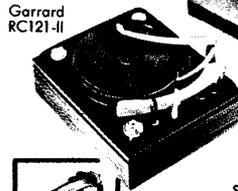
36 HF 724. Only \$33.35 Down. NET..... 333.50



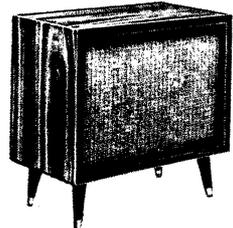
Bell 2315
12-Watt
Amplifier



Bell 2520
FM-AM Tuner



Garrard
RC121-II



Stephens
1217/120FR



G.E. GC-7 Stereo Cartridge

Phono System Featuring Bell 2215 Amplifier

Bell 2215 10-Watt Amplifier.....	\$ 55.00
Collaro TSC-740 4-Speed Changer & Base.....	46.60
G.E. GC-7 Stereo Cartridge—Diamond LP Needle..	23.47
E-V "Lindon" Speaker.....	34.50
E-V Wolverine LS-8 8" Full-Range Speaker.....	18.00
TOTAL REGULAR CATALOG PRICE.....	\$177.57
ALLIED SYSTEM PRICE.....	149.50
YOU SAVE.....	\$28.07

SYSTEM PRICE Enjoy excellent hi-fi with this space-sparing phono system—you'll save \$28.07. Plays microgroove records and new stereo discs monaurally—add another amplifier and speaker to play stereo discs stereophonically. Enclosure is sturdily constructed and has wood-grained finish. System includes free extras—color-coded cable, changer dust cover, etc. See page 17 for accessory 78 rpm cartridge. For operation from 110-120 v., 60 cyce AC. Specify mahogany, blonde or walnut finish. Shpg. wt., 50 lbs.

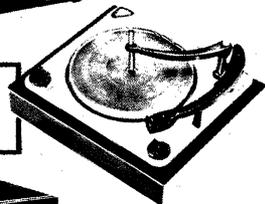
\$14.95 Down

36 HF 722. Only \$14.95 Down. NET..... 149.50

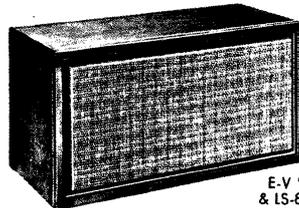


Bell 2215
Amplifier

G.E. GC-7 Stereo Cartridge



Collaro TSC-740
Changer & Base



E-V "Lindon"
& LS-8 Speaker

Phono System With Bell 3030 Stereo Amplifier

JUST ADD ANOTHER SPEAKER FOR STEREO

Bell 3030 30-Watt Stereo Amplifier.....	\$169.95
Garrard RC88-4 4-Speed Changer & Base.....	58.26
G.E. GC-7 Stereo Cartridge—Diamond LP Needle..	23.47
Jensen TR-10 3-Way Speaker System.....	114.50
TOTAL REGULAR CATALOG PRICE.....	\$366.18
ALLIED SYSTEM PRICE.....	325.00
YOU SAVE.....	\$41.18

SYSTEM PRICE Superiority of performance and compactness of design keynote this perfectly matched hi-fi phono system—at giant savings of \$41.18. Plays microgroove records and new stereo discs monaurally—simply add another speaker to play stereo discs stereophonically. Amplifier serves as two 15-watt amplifiers or one 30-watt amplifier—on one compact chassis. Speaker enclosure has hand-rubbed, selected veneers. For 110-120 volts, 60 cycle AC. Specify mahogany or walnut. Shpg. wt., 88 lbs.

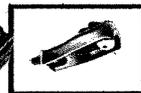
\$32.50 Down

36 HF 723. Only \$32.50 Down. NET..... 325.00

Bell 3030 Stereo Amplifier

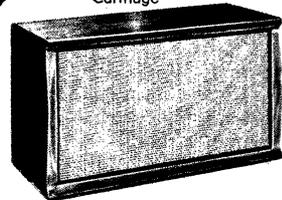


Garrard
RC88-4
& Base



G.E. GC-7 Stereo Cartridge

Jensen TR-10
3-Way Speaker System



WRITE FOR SYSTEM PLAN PRICES. If you wish to select a high-fidelity system with components of *your own choosing* simply list the make and model number of

each component, and write for Allied's special system price. You'll realize king-size savings—plus all the Allied system plan extras.

ALLIED RECOMMENDED HI-FI SYSTEMS

FEATURING *Pilot* COMPONENTS

STEREO SYSTEM AT BIG SAVINGS!

Phono System With Pilot 245 Stereo Amplifier

Pilot 245 28-Watt Stereo Amplifier & Case..... \$189.50
 Garrard RC88-4 4-Speed Changer & Base..... 58.26
 Pickering 371 Stereo Cartridge—Diamond Needle 29.85
 2—University "Debonaire" Enclosures..... 43.48
 2—University UXC-123 12" Speakers..... 125.44
TOTAL REGULAR CATALOG PRICE..... \$526.53
ALLIED SYSTEM PRICE..... 469.00
YOU SAVE..... \$ 57.53

SYSTEM PRICE \$469.00 Complete stereo/monaural control facilities—14-watt output per channel—or full 28-watt output for monaural use . . . is yours with this fine system.
\$46.90 Down Pickering's 371 stereo cartridge in Garrard plug-in head, has .0007" diamond needle for playing stereo and monaural LP records. (See page 17 for accessory plug-in head with 78-rpm cartridge.) Changer base and speaker enclosures in mahogany, blonde or walnut—specify choice when ordering. For 110-120 v., 60 cycle AC. Shpg. wt., 158 lbs.
 36 HF 725. *Only \$46.90 Down. NET..... 469.00*

FM-AM-PHONO STEREO SYSTEM. Save \$66.53! As above, with Pilot 670 Stereo FM-AM Tuner. 178 lbs.
 36 HF 726. *Only \$63.95 Down. NET..... 639.50*

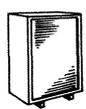
Phono System With Pilot AA-920 Amplifier

Pilot AA-920 20-Watt Amplifier with Case..... \$ 99.50
 Garrard RC121-II 4-Speed Changer & Base..... 46.16
 G.E. GC-7 Stereo Cartridge—Diamond Needle... 23.47
 Electro-Voice "Aristocrat" Enclosure..... 70.56
 Electro-Voice 12TRX-B 12" Speaker..... 64.68
TOTAL REGULAR CATALOG PRICE..... \$304.37
ALLIED SYSTEM PRICE..... 265.00
YOU SAVE..... \$ 39.37

SYSTEM PRICE \$265.00 G.E.'s new stereo cartridge employs single .0007" diamond stylus for stereo and monaural records. (See page 17 for accessory plug-in head with 78-rpm cartridge.) Changer base and enclosure in mahogany, limed oak or walnut—specify choice. For 110-120 v., 60 cycle AC. Shpg. wt., 98 lbs.
\$26.50 Down
 36 HF 727. *Only \$26.50 Down. NET..... 265.00*

FM-AM-PHONO SYSTEM. Save \$50.37! As above, but with Pilot FA-540 FM-AM Basic Tuner. Wt., 113 lbs.
 36 HF 728. *Only \$36.35 Down. NET..... 363.50*

MORE MONEY-SAVING SYSTEMS FEATURING PILOT HI-FI COMPONENTS

Amplifier	Changer	Cartridge	Speaker System	Finishes	Shpg. Wt.	Stock No.	NET PRICE
 245 28-Watt Stereo with Case	 Garrard RC88-4 with Base	 G.E. GC-7 Stereo Diamond	 Stephens B100 with 150CX 15" Speaker	Changer base and enclosure in mahogany and walnut—specify choice	146 lbs.	36 HF 729	\$430.00 SAVE \$60.23
 AA-920 20-Watt with Case	 Garrard RC88-4 with Base	 G.E. GC-7 Stereo Diamond	 Electro-Voice "Lancaster" with E-V LS12 "Wolverine" 12" Speaker	Changer base and enclosure in mahogany, limed oak and walnut wood-grain finishes—specify choice	73 lbs.	36 HF 730	\$224.50 SAVE \$24.23
 AA-903B 14-Watt with Case	 Garrard RC121-II with Base	 G.E. GC-7 Stereo Diamond	 Wellcor S812 with University UXC-122 12" Speaker	Changer base and enclosure in mahogany, limed oak and walnut—specify choice	79 lbs.	36 HF 731	\$209.00 SAVE \$24.67

ALLIED-RECOMMENDED STEREO HI-FI SYSTEMS



FEATURING H. H. SCOTT

FEATURING FISHER

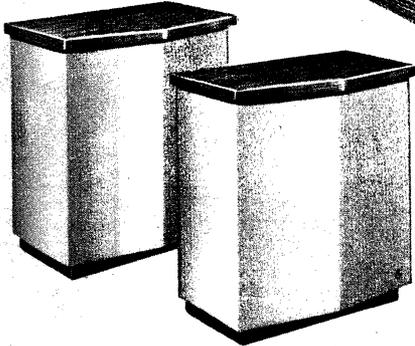


299 40-Watt Stereo Amplifier with Case

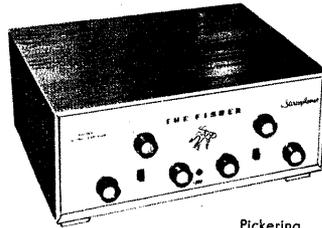
Pickering 371 Stereo Cartridge



Garrard RC88-4 Changer & Base



Two Stephens B100 Enclosures with Two 150CX 15" Speakers

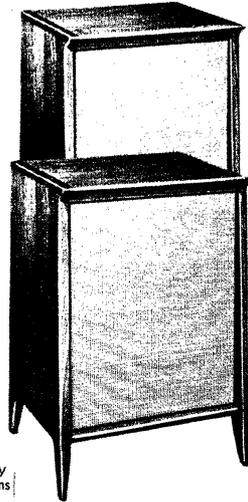


Fisher X-101 40-Watt Stereo Amplifier with Case

Pickering 371 Stereo Cartridge



Garrard RC88-4 Changer and Base



Two Jensen CN-100 3-Way Speaker Systems

Stereo Phono System With Scott Amplifier

Stereo Phono System With Fisher Amplifier

Scott 299 40-Watt Stereo Amplifier & Case..... \$219.90
 Garrard RC88-4 4-Speed Changer & Base..... 58.26
 Pickering 371 Stereo Cartridge—Diamond Needle 29.85
 2—Stephens B100 Enclosures..... 179.00
 2—Stephens 150CX 15" Speakers..... 259.00
TOTAL REGULAR CATALOG PRICE..... \$746.01
ALLIED SYSTEM PRICE..... 646.00

Fisher X-101 40-Watt Stereo Amplifier & Case... \$214.45
 Garrard RC88-4 4-Speed Changer & Base..... 58.26
 Pickering 371 Stereo Cartridge—Diamond Needle 29.85
 2—Jensen CN-100 3-Way Speaker Systems..... 299.00
TOTAL REGULAR CATALOG PRICE..... \$601.56
ALLIED SYSTEM PRICE..... 525.00

YOU SAVE..... \$100.01

YOU SAVE..... \$76.56

SYSTEM PRICE For magnificent stereo sound from new stereo records! Scott's 299 offers 20-watt output per channel; 40-watt output for monaural use. Pickering's 371 plays stereo and monaural LP records.

SYSTEM PRICE Jensen's CN-100 speaker systems deliver splendid stereo sound from new stereo records; employ 12" woofer, 8" mid-range unit and tweeter. The X-101 amplifier provides 20-watt output per channel, or 40-watt output for monaural use. (See page 17 for 78-rpm cartridge.) Amplifier case, changer base and speaker enclosures in mahogany or walnut—specify choice. For 110-120 v., 60 cycle AC. Shpg. wt., 254 lbs.

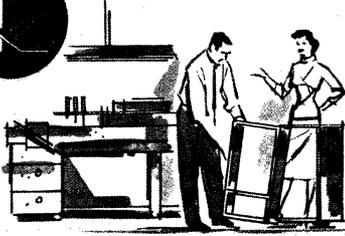
(See page 17 for accessory plug-in head with 78-rpm cartridge.) Amplifier case, changer base and speaker enclosures in mahogany or walnut—specify choice. For 110-120 v., 60 cycle AC. Shpg. wt., 254 lbs.
 36 HF 732. Only \$64.60 Down. NET..... 646.00

(See page 17 for 78-rpm cartridge.) Amplifier case, changer base and enclosures in mahogany or walnut—specify choice. For 110-120 v., 60 cycle AC. Shpg. wt., 186 lbs.
 36 HF 733. Only \$52.50 Down. NET..... 525.00

MORE VALUES IN HI-FI SYSTEMS FEATURING SCOTT AND FISHER COMPONENTS

Amplifier	Changer	Cartridge	Speaker System	Finishes	Shpg. Wt.	Stock No.	NET PRICE
 Scott 299 Stereo Amplifier with Case	 Garrard RC88 with Base	 Pickering 371 Stereo Diamond	 University "Debonaire" with UXC-123 12" Speaker	Amplifier case, changer base and enclosure in mahogany, blonde or walnut—specify choice	154 lbs.	36 HF 748	\$369.00 SAVE \$63.47
 Scott 99-D 22-Watt Stereo Amplifier with Case	 Garrard RC88 with Base	 G.E. GC-7 Stereo Diamond	 E-V "Marquis" with 12TRX-B 12" Speaker	Amplifier case, changer base and enclosure in mahogany, limed oak or walnut—specify choice	106 lbs.	36 HF 734	\$299.00 SAVE \$39.05
 Fisher X-101 Stereo Amplifier with Case	 Garrard RC88 with Base	 G.E. GC-7 Stereo Diamond	 Jensen TR-10 "Tri-Ette" 3-Way Speaker System	Amplifier case, changer base and enclosure in mahogany or walnut—specify choice	100 lbs.	36 HF 735	\$369.00 SAVE \$41.68

Write to Allied for HI-FI System Plan Price Quotation on Components of Your Choice



SAVE WITH THESE DO-IT-YOURSELF MUSIC SYSTEMS

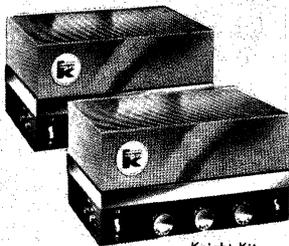
SAVE TWO WAYS!

You save more—in *two important ways*—when you choose an Allied-recommended “Do-It-Yourself” high-fidelity stereo system. You save by buying at Allied’s special system price; and you pocket big, additional savings by assembling the kit components yourself!

LOWEST-COST STEREO SYSTEM



Knight-Kit Stereo Control



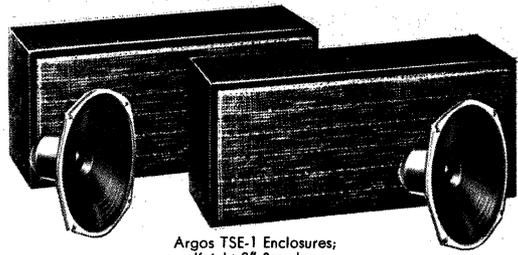
Knight-Kit 12-Watt Amplifiers



Collaro TSC-740 and Base



G.E. GC-7 Stereo Cartridge



Argos TSE-1 Enclosures; Knight 8" Speakers

Lowest Cost STEREO System

ONLY **\$159.00**

You Save \$21.06

- British-Made 4-Speed Changer
- Stereo Cartridge—Diamond Needle
- Versatile Stereo Control Unit
- Two Powerful 12-Watt Amplifiers
- Two Space-Saving Speaker Systems

It’s easy to bring thrilling stereo reproduction into your home when you “do-it-yourself”—this exceptionally low-cost system saves you \$21.06 on the cost of components, and you gain extra savings by assembling the amplifiers and stereo adapter yourself! There’s no easier or more exciting way to become the owner of a stereo music system—and the quality of performance will amaze and delight you.

Stereo system includes: 2—Knight-Kit 12-Watt Amplifier Kits with Covers; Knight-Kit Stereo Control Kit; Collaro TSC-740 4-Speed Stereo Changer; Changer Base in choice of finish; G.E. GC-7 Stereo Cartridge with Diamond LP Needle; 2—Knight KN-808 8" Full-Range Speakers; 2—Argos TSE-1 Shelf-Type Speaker Enclosures in your choice of finish; a free plastic record changer cover; and color-coded connecting cables.

The flexibility of control and application of this super-value system would be difficult to approach in a system of assembled units selling for much more than this low price. The stereo control provides single-knob volume control of both amplifiers. Collaro’s 4-speed changer offers ultra-smooth, quiet operation. Wide-range, full fidelity response is yours with the Knight speakers. The bookshelf-type enclosures are ideal for limited-space applications. Changer base in mahogany, limed oak or walnut; enclosures in mahogany or blonde leatherette—specify. For operation from 110-125 v., 60 cycle AC. Shpg. wt., 128 lbs. 36 HF 604. Only \$15.90 Down. NET. 159.00

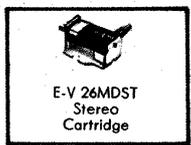
LOW-COST “ADD-ON” SYSTEM FOR STEREO



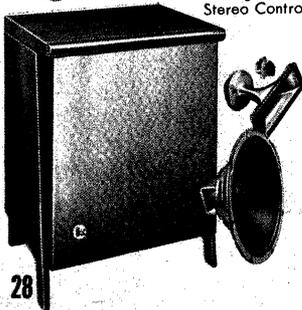
Knight-Kit Stereo Control



Knight-Kit 12-Watt Amplifier



E-V 26MDST Stereo Cartridge



Knight-Kit Two-Way “Ducted Port” Speaker System—including 12" Woofer, Tweeter and Level Control

Low-Cost STEREO “Add-On” System

ONLY **\$97.50**

You Save \$8.35

- Top-Performing 12-Watt Amplifier
- Convenient Stereo Control Unit
- Turnover Ceramic Stereo Cartridge
- Diamond and Sapphire Styli
- Wide-Range 2-Way Speaker System

There’s no need to wait for breathtaking stereo—combine your present hi-fi phono system with this top-economy “add-on” package now, and enjoy two-way savings. You save \$8.35 on the cost of components, and you realize added savings by assembling the kits. The realism of stereo opens the way to a new world of musical enjoyment—and the price is remarkably low when you use Allied’s money-saving system plan.

System includes: Knight-Kit 12-Watt Amplifier Kit with Cover; Knight-Kit Stereo Control Kit; E-V 26MDST Turnover Ceramic Stereo Cartridge with Diamond Needle for LP’s and Sapphire Needle for 78’s; and Knight-Kit Two-Way High-Fidelity Speaker System Kit.

Full, one knob centralized control is provided by the stereo control unit. Pre-finished enclosure kit is available in your choice of mahogany, blonde or walnut—specify finish when ordering. For operation from 110-125 volts, 60 cycle AC. Shpg. wt., 57 lbs. 36 HF 607. Only \$9.75 Down. NET. 97 50

FEATURING QUALITY HI-FI COMPONENTS

The Knight-Kits featured in these systems are custom-engineered to deliver flawless high-fidelity reproduction. A combination of highest-quality parts and expert design keynote each component. See pages 244, 245 and 251 for detailed proof of performance.

**EASY
TO
ASSEMBLE**



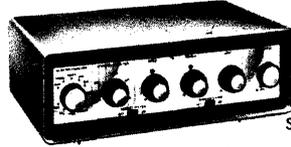
**DELUXE STEREO
IN MONEY-SAVING
DO-IT-YOURSELF FORM**

Deluxe STEREO Phono System

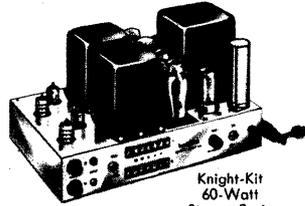
ONLY

- Versatile Stereo Preamplifier
- Super-Power Stereo Amplifier
- World-Famous 4-Speed Changer
- Stereo Cartridge—Diamond Needle
- Top-Performing Speaker Systems

You Save \$28.51



Knight-Kit Stereo Preamp



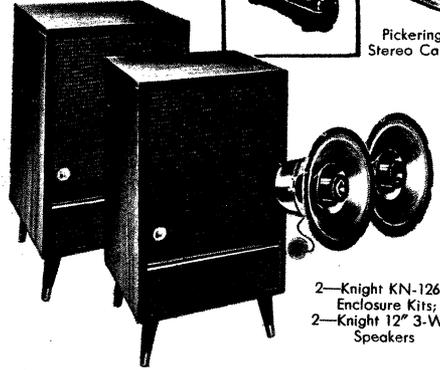
Knight-Kit 60-Watt Stereo Basic Amplifier



Garrard RC88-4 and Base



Pickering 371 Stereo Cartridge



2—Knight KN-1260K Enclosure Kits;
2—Knight 12" 3-Way Speakers

A superb stereo music system of truly exceptional quality can be yours for far less than you thought possible—when you choose this ultra-deluxe system that saves money for you in two ways. First, Allied's system price is \$28.51 less than the total price of the individual components; second, you gain tremendous additional savings by doing the easy assembly! This outstanding array of Allied-selected components will recreate—in your own home—the startling realism of full-dimensional stereophonic sound.

Complete stereo system includes: Knight-Kit Stereo Preamp Kit; Knight-Kit 60-Watt Stereo Basic Amplifier Kit; Garrard RC88-4 4-Speed Changer and Base; Pickering 371 Stereo Cartridge with Diamond LP Needle; 2—Knight KN-1260K Ducted-Port Speaker Enclosure Kits; 2—Knight KN-800 12" 3-Way High-Fidelity Speakers; and free Plastic Record Changer Cover.

Every advanced feature has been incorporated in this superlative "do-it-yourself" stereo system. The separate stereo preamp and 60-watt stereo basic amplifier provide unusual flexibility, as well as superior performance; the perfectly matched speaker systems will reproduce the full majesty of a large orchestra with impressive fidelity. Pickering's stereo cartridge is mounted in plug-in head, ready to reproduce stereo and monaural LP records. Changer base and enclosures in mahogany, limed oak or walnut—specify. For 110-125 v., 60 cycle AC. Shpg. wt., 164 lbs.

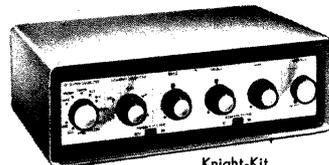
36 HF 605. Only \$36.95 Down. NET. 369.50

Deluxe Convertible Phono System

ONLY

- Enjoy Brilliant Hi-Fi Response
- Just Add Another Speaker and Amplifier for Thrilling Stereo
- Highly Versatile Stereo Preamp
- Top Performing—No Obsolescence

You Save \$20.23



Knight-Kit Stereo Preamp



Garrard RC88-4 & Base



Knight-Kit 25-Watt Basic Amplifier



G.E. GC-7 Stereo Cartridge



Knight Enclosure Kit; Knight 12" 3-Way Deluxe Speaker

Enjoy outstanding hi-fi now—and by simply adding another amplifier and speaker, you can thrill to stereo! This extremely flexible, obsolescence-proof system plays conventional LP's and stereo records monaurally, and incorporates every feature necessary for smooth conversion to stereo. Its exceptional array of top-performing components offers two-way savings—you save \$20.23 on the total cost of individual units—and you pocket giant savings by doing the easy assembly yourself.

System includes: Knight-Kit Stereo Preamp Kit; Garrard RC88-4 4-Speed Changer with Base; G.E. GC-7 Stereo Cartridge with Diamond LP Needle; Knight-Kit 25-Watt Basic Amplifier Kit; Knight KN-1260K Speaker Enclosure Kit; Knight KN-812 12" 3-Way Deluxe Hi-Fi Speaker; and free Plastic Record Changer Cover.

Changer base and speaker enclosure in choice of mahogany, limed oak or walnut—specify when ordering. For 110-125 volts, 60 cycle AC. 135 lbs.

36 HF 606. Only \$27.45 Down. NET. 274.50

See Pages 249 and 250 for Knight-Kit Tuners

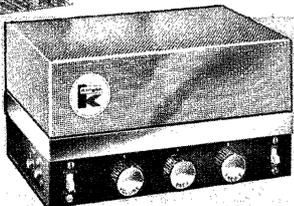
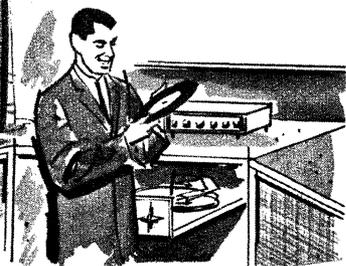
BIG SAVINGS ON DO-IT-YOURSELF HI-FI SYSTEMS

QUALITY **knight-kit** COMPONENTS

The unquestioned leaders in kits for music lovers, Knight-Kit hi-fi components offer you attractive styling and first-rate professional performance. For best savings, check all 4 pages of hi-fi systems featuring Knight-Kits.

EASY TO ASSEMBLE

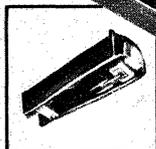
Knight-Kits are famous for their clear, detailed instruction booklets. No other electronic kits are as easy to assemble—even if you have had no previous experience with electronic equipment. Anyone can do it!



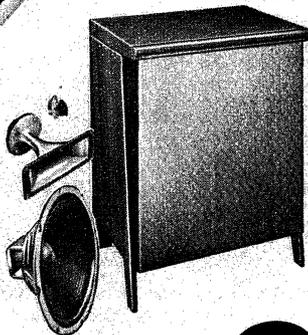
New Knight-Kit 12-Watt Amplifier With Cover



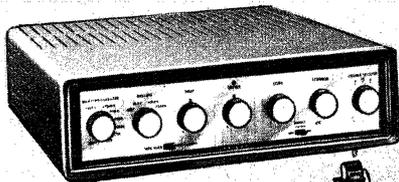
Collaro TSC-740 Record Changer With Base



G.E. GC-7 Stereo Cartridge



Knight-Kit 2-Way Speaker System Kit With Pre-Finished Enclosure



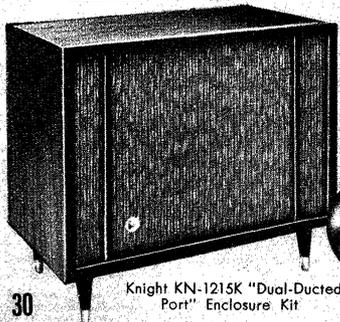
Knight-Kit 30-Watt Amplifier



Pickering 371 Stereo Cartridge

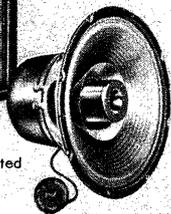


Garrard RC88-4 Changer & Base



Knight KN-1215K "Dual-Ducted Port" Enclosure Kit

Knight KN-810 3-Way, 15" Speaker



Low-Cost Do-It-Yourself Hi-Fi Phono System

ONLY

\$129⁵⁰

Save \$14.42

- New Knight-Kit 12-Watt Amplifier
- Collaro 4-Speed Changer & Base
- New G.E. Cartridge—Diamond Needle
- Knight-Kit Speaker System with Woofer, Tweeter, Level Control

It's remarkably easy to own a top-quality hi-fi phono system when you "do-it-yourself." You save by buying at Allied's special system price; you pocket additional savings by assembling the kit components yourself. This low-cost system actually saves you \$14.42! Includes: New Knight-Kit 12-Watt Amplifier with Cover; Collaro TSC-740 4-Speed Record Changer with Base; new G.E. GC-7 Stereo Magnetic Cartridge; Knight-Kit 2-Way Speaker System Kit; free plastic changer cover.

The new Knight-Kit 12-watt amplifier offers excellent response characteristics and its inputs accommodate a tuner to provide you with another source of music. Collaro's TSC-740 changer provides smooth record-changing action. G.E.'s new stereo cartridge, installed in plug-in head and with .0007" diamond needle, plays stereo and monaural LP records, monaurally—for stereo, just add another amplifier and speaker. (See page 17 for accessory plug-in head with 78-rpm cartridge). The Knight-Kit 2-way speaker system kit, with pre-finished panels, features 12" woofer, compression-type tweeter and level control for beautifully balanced, hi-fi sound. Changer base and enclosure in mahogany, blonde or walnut—specify choice. For 110-125 v., 60 cycle AC. Shpg. wt., 70 lbs.

36 HF 602. Only \$12.95 Down. NET 129.50

Deluxe Do-It-Yourself Hi-Fi Phono System

ONLY

\$249⁵⁰

Save \$20.01

- Knight-Kit 30-Watt Hi-Fi Amplifier
- Top-Rated Garrard Changer & Base
- New Pickering Stereo Cartridge with Diamond Needle
- Deluxe Knight Speaker & Enclosure Kit

A splendid array of deluxe high-fidelity components, at a savings of \$20.01! System includes: Knight-Kit 30-Watt Amplifier Kit; Garrard RC88-4 4-Speed Record Changer and Base; new Pickering 371 Stereo Magnetic Cartridge; Knight KN-810 3-Way 15" Speaker; new Knight KN-1215K "Dual-Ducted Port" Enclosure Kit; free plastic changer cover. Knight-Kit 30-watt amplifier features linear-deluxe Williamson-type circuit for superb reproduction—3 printed circuit boards greatly simplify assembly. The brilliantly engineered Garrard changer is world-famous for its highly dependable operation. Pickering's new stereo cartridge, installed in plug-in head, employs .0007" diamond needle. Plays stereo and monaural LP records, monaurally—for stereo, just add another amplifier and speaker. (See page 17 for accessory plug-in head with 78-rpm cartridge). The Knight KN-810 15" speaker in the KN-1215K "dual-ducted port" enclosure combines beauty with impressive reproduction of sound. Changer base and enclosure kit in mahogany, lined oak or walnut—specify choice. For 110-125 v., 60 cycle AC. Shpg. wt., 142 lbs.

36 HF 603. Only \$24.95 Down. NET 249.50

For Complete Descriptions of Knight-Kits, See Pages 241-273

FEATURING knight-kits

Economy Do-It-Yourself Hi-Fi Phono System

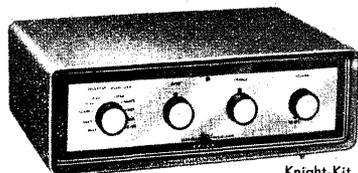
ONLY

~~\$149.00~~

Save \$16.08

- Knight-Kit 18-Watt Amplifier Kit
- Famous Garrard Changer & Base
- G.E. Stereo Cartridge—with Diamond Needle
- New E-V 12" "Wolverine" Speaker
- Knight "Ducted Port" Enclosure

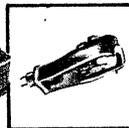
Selected by Allied's experts for the exceptional quality of its components, this system saves you \$16.08! You'll get the amplifier and enclosure kits easy to build—you'll enjoy outstanding performance from the completed system. Includes: Knight-Kit 18-Watt Amplifier Kit; Garrard RC121-II Changer with Base; new G.E. GC-7 Stereo Magnetic Cartridge; new Electro-Voice LS12 12" "Wolverine" Speaker; Knight KN-1260K "Ducted Port" Enclosure Kit; free plastic changer cover. The versatile 18-watt amplifier offers distortion-free response. G.E.'s new stereo cartridge, installed in plug-in head and with .0007" diamond needle, plays new stereo and monaural LP records, monaurally—for stereo, just add another amplifier and speaker. (See page 17 for accessory plug-in head with 78-rpm cartridge.) E-V's new LS12 speaker and the Knight KN-1260K "ducted port" speaker enclosure, provide clean, wide-range sound. Changer base and enclosure kit in mahogany, limed oak or walnut—specify choice. For 110-125 v., 60 cycle AC. 79 lbs. 36 HF 601. *Only \$14.95 Down. NET.....149.50*



Knight-Kit 18-Watt Amplifier Kit



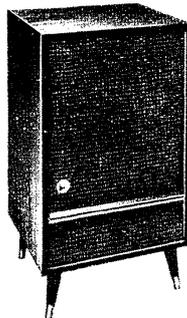
Garrard RC121-II 4-Speed Changer with Base



G.E. GC-7 Stereo Cartridge



Electro-Voice LS12 "Wolverine" 12" Speaker & Knight KN-1260K "Ducted Port" Enclosure Kit



Popular Do-It-Yourself Hi-Fi Phono System

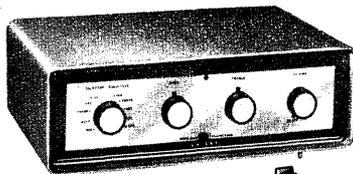
ONLY

~~\$199.00~~

Save \$17.13

- Knight-Kit 18-Watt Amplifier Kit
- Top Garrard Changer with Base
- G.E. Stereo Cartridge—with Diamond Needle
- Famous Knight 3-Way 12" Speaker
- Knight Corner Enclosure Kit

An excellent 18-watt phono system, featuring components of superior design throughout—at a savings of \$17.13! You save by assembling the amplifier and enclosure kits yourself—you save by purchasing components in system form. System includes: Knight-Kit 18-Watt Amplifier Kit; Garrard RC88-4 4-Speed Changer with Base; new G.E. GC-7 Stereo Magnetic Cartridge; Knight KN-800 3-Way 12" Speaker; Knight KN-1250K Corner Enclosure Kit; free plastic changer cover. The Knight-Kit 18-watt amplifier, one of our most popular units, offers superb music reproduction. G.E.'s GC-7 cartridge, installed in plug-in head and with .0007" diamond needle, plays new stereo and monaural LP records, monaurally—for stereo, just add another amplifier and speaker. (See page 17 for accessory plug-in head with 78-rpm cartridge.) The highly rated KN-800 speaker and KN-1250K enclosure team up to provide sparkling sound. Changer base and enclosure kit in mahogany, limed oak or walnut—specify choice. For 110-125 v., 60 cycle AC. Shpg. wt., 97 lbs. 36 HF 600. *Only \$19.90 Down. NET.....199.00*

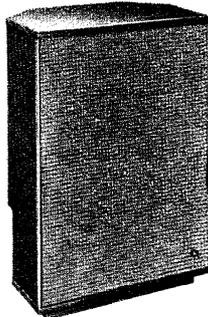


Knight-Kit 18-Watt Amplifier Kit

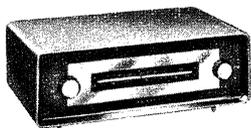
Garrard RC88-4 Record Changer With Base



G.E. GC-7 Stereo Cartridge



Knight KN-800 12" Speaker & Knight KN-1250K Corner Enclosure Kit



A



B

ADD A QUALITY knight-kit TUNER TO YOUR PHONO SYSTEM

A KNIGHT-KIT FM-AM TUNER KIT.

You'll spend hours listening to this easy-to-build FM-AM tuner. Tune in all the wonderful sound of genuine high-fidelity FM programming—plus clearest AM reception. Turn to page 249 for complete description. Shpg. wt., 12 lbs.

83 YX 787. NET..... 49.95

B KNIGHT-KIT BASIC FM TUNER KIT.

Beautifully styled and easy to build, this fine tuner is one of our "best sellers". Automatic frequency control for "lock-in" tuning of FM stations, printed circuit, etc. Turn to page 250 for complete description. Wt., 12 lbs.

83 YX 751 NET..... 38.95



knight® the *Royalty of Value* in quality Hi-Fi components

created by
ALLIED RADIO

priced to save you money

If you have been denying yourself the pleasure of high-fidelity musical enjoyment because of budget restrictions, remember that Allied's low-cost Knight components are designed expressly for you—to give you, the customer, maximum value and *guaranteed* protection for your hi-fi dollar.

built to custom-quality standards

From the drawing board to the finished product, Knight high-fidelity audio components embody the same careful attention to detail . . . precise inspection of every stage . . . and rigid laboratory checking . . . that goes into the most expensive reproducing units.

GUARANTEED ONE FULL YEAR

15-Day Trial, Money-Back Offer

Any Knight hi-fi component you buy may be tested under the terms of our trial guarantee. Place your order on our regular cash terms or use our Easy Pay Plan. Then check performance in your own home. If within 15 days you are not fully satisfied, return the unit to us. We will refund your full purchase price, less only transportation charges. For your complete protection, regular EIA warranties also apply.

CREATED BY ALLIED

knight

Royalty of Value in hi-fi

EASY TERMS AVAILABLE

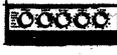
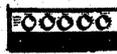
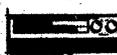
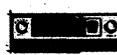
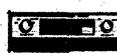
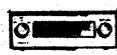
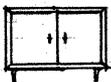
designed by ALLIED

. . . and precision-built by skilled craftsmen—your positive assurance of brilliant hi-fi reproduction and the ultimate in dependability and performance. Allied's long leadership as supplier of hi-fi units and systems to music lovers the world over, enables us to produce the unit *you* want.

styled for pride of ownership

Compact and attractive, Knight components are styled to provide *lasting* beauty and to blend happily with any furnishing scheme, in any room. Their distinctive styling, combined with the ability to reproduce music with life-like realism, will make you proud to own these remarkable units.

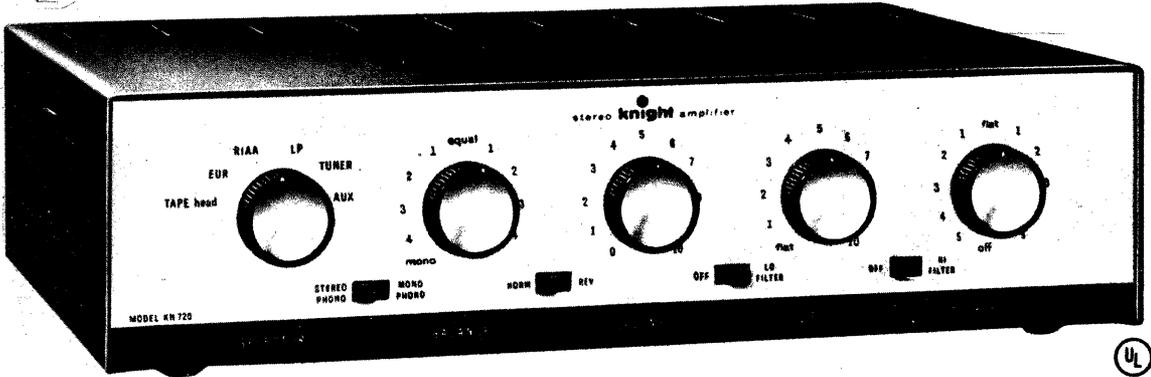
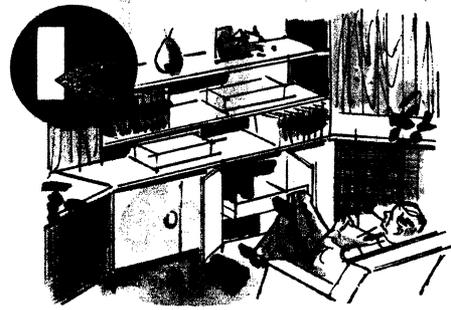
The MONEY-SAVING Line of knight HI-Fi Components is COMPLETE

Amplifiers	 KN-734 34-WATT DELUXE STEREO AMPLIFIER	 KN-720 20-WATT "BANTAM" STEREO AMPLIFIER	 KN-510 10-WATT "MINI-FI" AMPLIFIER		
Preamplifier and Basic Amplifiers	 KN-700A STEREO PREAMP CONTROL UNIT	 KN-632 32-WATT BASIC AMPLIFIER	 KN-1515 30-WATT STEREO BASIC AMPLIFIER		
Tuners	 KN-120 DELUXE STEREO FM-AM TUNER	 KN-110 DELUXE FM-AM TUNER	 KN-130 "BANTAM" STEREO FM-AM TUNER	 KN-140 "MINI-FI" BASIC FM TUNER	
Speakers	 KN-800 12', 3-WAY SPEAKER	 KN-810 15', 3-WAY SPEAKER	 KN-812 DELUXE 12', 3-WAY SPEAKER	 KN-815 DELUXE 15', 3-WAY SPEAKER	 KN-2000 HIGH-COMPLIANCE 3-WAY SYSTEM
Enclosures and Kits	 KN-1250 CORNER HORN ENCLOSURE	 KN-1260 "DUCTED PORT" ENCLOSURE	 KN-1270 BASS REFLEX ENCLOSURE*	 KN-1215 "DUAL DUCT" ENCLOSURE	 KN-1400 EQUIPMENT CABINET

* (Not Sold as Kit)

SAVE MOST WITH **knight** QUALITY STEREO

Add immeasurably to your enjoyment of music in its newest, most dazzling form—stereophonic sound—with low-cost Knight stereo components. These remarkably capable and inexpensive units are created and designed by Allied to bring you highest quality at moderate cost. Their many new design features, fresh styling and top performance make them the year's outstanding values in high-fidelity. For brilliant musical reproduction from any stereophonic or monaural source—records, tapes or radio broadcasts—choose new Knight stereo components.



KN-720

Guaranteed For One Full Year

New knight KN-720 "Bantam" 20-Watt Stereo Amplifier

NET

\$79.95

\$8.00 Down

- Two 10-Watt Stereo Channels; 20-Watt Monaural Output
- Full Set of Controls and Inputs For Accommodating Any Stereo or Monaural Sound Source
- Wide-Range Stereo Balance Control for Perfect Stereo Sound Under Most Acoustic Conditions, In Any Room
- DC on Filaments of Preamp Tubes

The new Knight KN-720 "Bantam" 20-Watt Stereo Amplifier offers exceptional versatility—provides 20-watt operation into one speaker system used monaurally—or 10 watts into each of two speaker systems for stereophonic use. In addition to this, its preamplifier control section features master volume, balance, stereo reverse, scratch and rumble filters, plus input-paralleling feature. Complete control facilities of the preamp section will enable you to regulate stereo sound with unsurpassable ease! It's perfect for use with newest stereo records, stereo tapes or stereo radio broadcasts.

A convenient slide switch provides instant switching between stereo and monaural operation. Wide-range balance control permits you to use your stereo music system in any room, even where one of the speakers cannot be placed for optimum stereo effect, and still get perfect stereophonic sound. Size of the room is no longer critical—makes any room an ideal stereo concert hall! Two tape recorder outputs permit "off-the-air" stereo tape recordings. Hum is reduced to inaudible levels by DC operation of all preamp tube filaments.

SPECIFICATIONS: *Power Output:* 10 watts per channel; 20 watts for monaural use. *Sensitivity* (for 10 watt output): Tape Head, 3 mv; Mag. Phono, 4 mv; Aux. and Tuner, 0.5 v; Ceramic Phono, 150 mv. *Frequency Response:* ±1 db, 20 to 20,000 cps. *Distortion:* harmonic, 1% at 1000 cycles measured at 10 watt output; 1M, 3% maximum. *Hum & Noise:* 70 db below full output each channel. *Inputs (per channel):* NARTB Tape Head; Magnetic Phono, Ceramic (or Crystal) Phono, Tuner, Auxiliary. *Output Impedances:* 4, 8 and 16 ohms per channel; two tape recorder outputs. *Controls:* Selector (Tape Pre, RIAA, EUR, LP, Tuner, Aux); Balance/Stereo-Monaural switch; Master Volume; Bass; Treble/On-Off. Four slide-switches: Input Paralleling; Stereo Reverse; Rumble Filter; Scratch Filter. *Tubes:* 4—6V6GT, 4—12AX7, 12AU7, EZ81/6CA4 rectifier. Attractively styled case in rich leather-tone finish; brushed brass panel with black trim. Size, 3 3/4 x 14 1/4 x 11". U.L. Approved. For 110-120 volt, 50-60 cycle AC. Shpg. wt., 15 lbs.

92 SU 420. NET. 79.95

FEATURE-PACKED knight STEREO AMPLIFIER AT A RECORD LOW PRICE

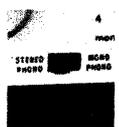
WIDE-RANGE BALANCE CONTROL

In large rooms or small rooms—you'll get perfect stereo sound "spread" with this wide-range balance control. Eliminates "holes" and "dead spots" in the stereophonic effect.



FOR STEREO OR MONAURAL USE

Use the KN-720 as a 10-watt-per-channel stereo amplifier or 20-watt monaural amplifier. Input-paralleling switch permits instant switching from stereo to monaural operation.



TOP FLEXIBILITY

You can use your Knight KN-720 "Bantam" amplifier with a stereo record changer, stereo tape deck, or for stereo FM-AM broadcast reception—plus regular monaural sound sources.

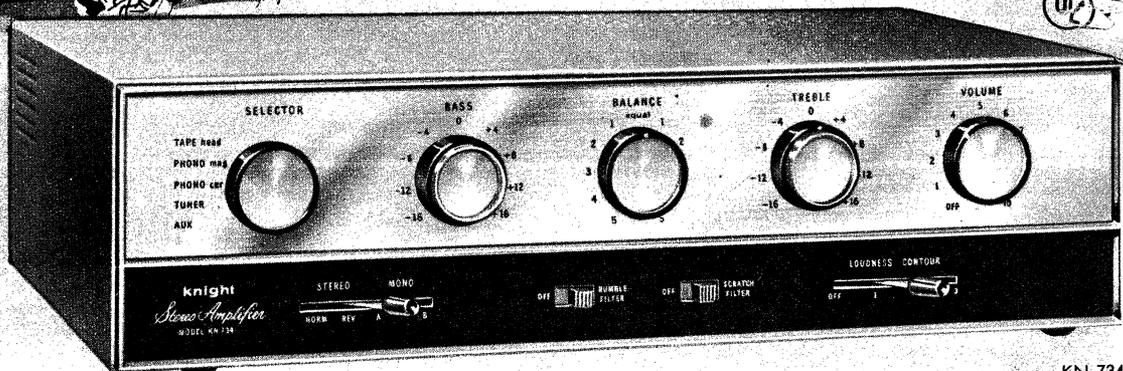
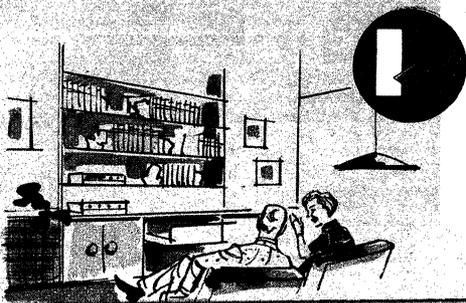


BEAUTIFUL STYLING. The "Bantam" amplifier features a rich, leather-tone brown finish, with front panel styled in brushed brass and glistening black trim. Its case and color styling are a perfect match to the Knight KN-130 "Bantam" Stereo FM-AM Tuner, described on page 38. Both of these high-quality components can be used as the "heart" of a stereophonic music system of exceptional quality and performance, at unusually low cost.

See pages 6 through 10. Use Allied recorders, money-saving stereo music systems featuring new Knight components.

ALLIED'S EXCLUSIVE **knight**® DELUXE

THE FINEST OF NEW STEREO COMPONENTS... AT MODERATE COST. Allied—world leader in hi-fi—presents its new, deluxe Knight stereo components. Designed expressly for those who wish to own the finest in music reproduction equipment, Knight components incorporate features not available on any other units—at any price! For highest quality and top performance at low cost, Knight leads the field.



KN-734

GUARANTEED FOR ONE FULL YEAR

NEW **knight** KN-734 Deluxe 34-Watt Stereo Amplifier

NET

\$129⁵⁰

\$12.95 Down

- Separate Bass and Treble Controls for Each Channel
- Complete Stereo and Monaural Control Facilities
- Plug-In Jack for Remote Control Accessory
- Plug-In Jack For Using Binaural Headphones
- Color-Styled in Beige Vinyl Plastic, Bonded to Case

Amazingly versatile, the Knight KN-734 amplifier may be used in three ways: 1) It may be used as a stereo amplifier delivering 17 watts from each of its two sections; 2) it may be used as a powerful 34-watt monaural amplifier; 3) if you now own a monaural hi-fi amplifier, you may use the KN-734 as a 34-watt amplifier for one stereo channel, and your original amplifier for the second channel—the built-in preamp in the KN-734 provides centralized control of both amplifiers.

A perfect match to the new KN-120 Stereo Tuner on page 35, it offers many exclusive features and remarkable flexibility. Features include: inputs and controls for any stereo or monaural source; highly effective rumble and scratch filters; provision for adding the Knight KNR Remote Control Unit; headphone jack for private binaural listening; Mode switch to permit mixing channels, listening to channels individually, etc.; balance control; and many more. Two sets of tape output jacks permit stereo or monaural recording, with or without the action of the amplifier's tone and volume controls.

SPECIFICATIONS. *Output:* 17 watts per channel; 34 watts for single stereo channel or monaural. *Response:* ±1 db, 30-20,000 cps. *Distortion (Harmonic and IM):* less than 2% at rated output. *Hum & Noise:* 80 db below full output. *10 Inputs (5 pairs):* Tape Head, Magnetic Phono, Ceramic or Crystal Phono, Tuner, Auxiliary. *Sensitivity (for rated output):* Auxiliary, Ceramic and Tuner inputs, 0.4 v.; Magnetic Phono, 5.0 mv.; Tape Head, 4.5 mv. *Output Impedances:* 4, 8, 16 and 32 ohms per channel. *Controls:* Selector (Tape Head, Mag Phono, Ceramic Phono, Tuner, Aux); Balance; Off-On/Master Volume; Mode (Stereo, Reverse Channels, Monaural A, B or Mixed); concentric Bass and Treble (separate for each channel); Rumble Filter; Scratch Filter; 4-pos. Loudness Control. DC on preamp filaments. Four EL84 output tubes. Beige vinyl plastic, bonded to metal case; heavy-gauge anodized aluminum panel in gold and beige. 4 $\frac{3}{8}$ x15 $\frac{3}{4}$ x13 $\frac{1}{8}$ ". U.L. Approved. For 110-120 v., 50-60 cycle AC. Shpg. wt., 35 lbs.

92 SU 422. NET..... 129.50

BINAURAL HEADPHONES. The KN-734 has a jack for plugging in binaural headphones (see pages 420, 421 for a number of excellent sets).

SUPER-VALUE STEREO AMPLIFIER MOST FOR YOUR MONEY

STEREO OR MONAURAL USE

Special output transformers permit use of the KN-734 as a stereo amplifier with two 17-watt channels; or as a monaural 34-watt amplifier. The simple changeover takes only a minute.



5 PAIRS OF INPUTS

Conveniently switched from the front panel, 5 pairs of inputs accommodate any stereo or monaural signal—Tape Head, Magnetic Cartridge, Ceramic or Crystal Cartridge, Tuner and Aux.



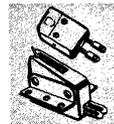
WIDE-RANGE BALANCE CONTROL

Makes any room perfect for stereo! Balances the volume of both speakers to provide stereo acoustic effect from any listening position. Boosts volume of speaker that may be unfavorably located.



MATCHES ANY CARTRIDGE

Variable input loading feature for various magnetic phono cartridges. Assures flat response and maximum fidelity, regardless of the type of stereo or monaural magnetic cartridge used.

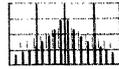


REMOTE CONTROL FACILITY. The KN-734 is equipped with an input jack for accepting the KNR Stereo Remote Control unit, (described on page 36). Permits remote control of stereo balance, volume, etc.

MONEY-SAVING STEREO HI-FI COMPONENTS

EXCLUSIVE NEW FEATURES . . . BEAUTIFUL STYLING. Built to Allied's rigid specifications and thoroughly laboratory-checked, deluxe Knight stereo components offer you "something extra" in unique, new features and distinctive appearance. Highly advanced circuitry provides performance well beyond the ordinary. Deluxe units feature beige vinyl plastic bonded to metal case, plus anodized two-tone front panel for lasting beauty.

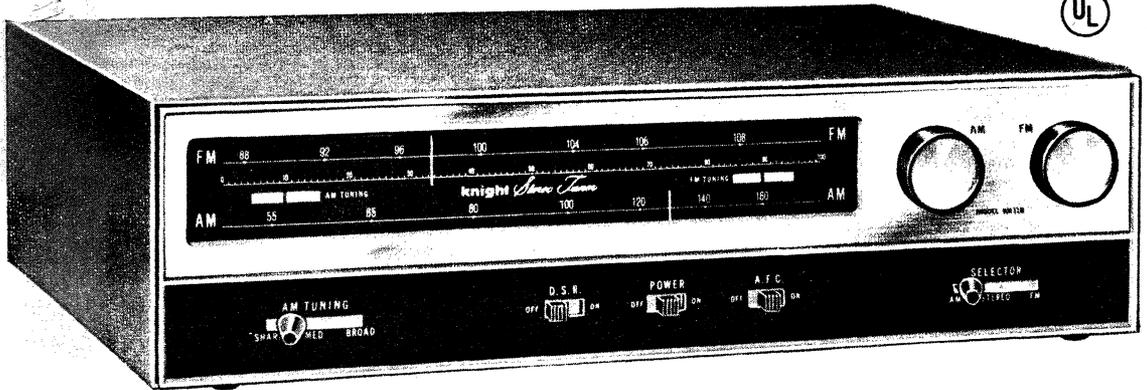
EXCLUSIVE FEATURE!



**DYNAMIC
SIDE BAND
REGULATION**

A wonderful new circuit development that reduces distortion caused by over-modulation at the FM station. Provides reception that is clean and silk-smooth, against a background of velvety silence!

GUARANTEED FOR ONE FULL YEAR



KN-120

New knight KN-120 Deluxe Stereo Basic FM-AM Tuner

NET

\$129.50

\$12.95 Down

- For Stereo FM-AM Reception & FM or AM Separately
- Phenomenal Dynamic Sideband Regulation Feature
- New Tuning Beam Indicator Tubes for FM and AM
- Each Tuner Sweep-Aligned at Factory
- Tuned RF on FM and AM — Dual Limiters on FM

A splendid example of brilliant engineering and up-to-the-minute design! For FM-AM stereo broadcast reception, and FM or AM reception separately. Features exclusive Dynamic Sideband Regulation for phenomenally clean FM reception—regulates incoming FM signals and reduces distortion originating at the broadcasting station. For pin-point tuning accuracy, the KN-120 uses two new cathode-ray indicator tubes on FM and AM. Four cathode follower output jacks—two unaffected by volume and tone controls for convenient tape recording of FM, AM or stereo broadcasts; two with level controls. Dual flywheel tuning; panel mounting without accessories. Every KN-120 undergoes *visual* sweep alignment at the factory—the most reliable and accurate production method possible. Beige leather-grain vinyl plastic is bonded to the case; anodized aluminum front panel in beige and gold.

FM Section. Tuned RF stage, two limiters and a discriminator, AFC. Sensitivity: $2\frac{1}{2} \mu\text{v}$ for 20 db quieting. Less than 0.25% IM distortion at 30% modulation for RF inputs over 20 μv . **AM Section.** Tuned RF stage. Sensitivity: 4 μv for 20 db signal-to-noise ratio. 10-kc whistle filter; 3-position AM bandwidth switch. **Controls:** AM Tuning; FM Tuning; Selector (FM, FM-AM Stereo, AM); AM Bandwidth Selector (Sharp, Medium, Broad); Off-On; AFC Off-On; Dynamic Sideband Regulation Off-On. 12 tubes; 2—EM84/6FG6 tuning indicators; EZ80 rectifier. $4\frac{3}{8} \times 15\frac{3}{4} \times 13\frac{1}{8}$ ". U.L. Approved. For 110-120 v., 50-60 cycle AC. 21 lbs.

92 SU 423. NET. 129.50

SAVE! Deluxe Stereo Amplifier and Tuner Combination Offer

KN-734 & KN-120

\$244.00

You Save \$15.00

Two of the finest stereo components available—at savings of \$15.00! Add only a stereo speaker system (2 speakers), for reception of stereo FM-AM broadcasts; add stereo speaker system and record changer with stereo cartridge for dazzling stereo reproduction from new stereophonic records. Styling of both Knight units is impeccable! Shpg. wt., 56 lbs.
36 SU 804-2. Only \$24.40 Down on This Combination Offer. NET. 244.00

See Pages 8-9 for Stereo Systems Featuring Deluxe Knight Units

YOUR BEST BUY IN AN FM-AM STEREO TUNER

NEW TUNING INDICATOR TUBES



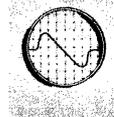
Newest EM84/6FG6 "tuning eye" tubes are used for precise FM and AM tuning. A beam of blue light opens in the center when you're "off" station—closes to hairline width when you're "on" station.

SEPARATE FM AND AM CONTROLS



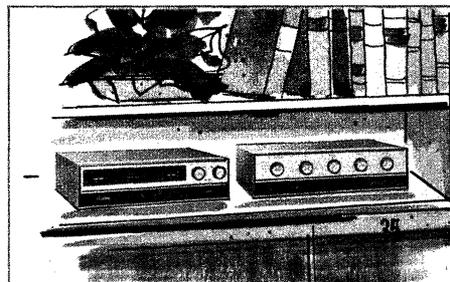
True stereo design! Separate, weighted flywheel tuning for FM and AM; separate tuning indicators; and separate output level controls. It's like having two fine tuners in one compact case!

SWEEP-ALIGNED AT FACTORY



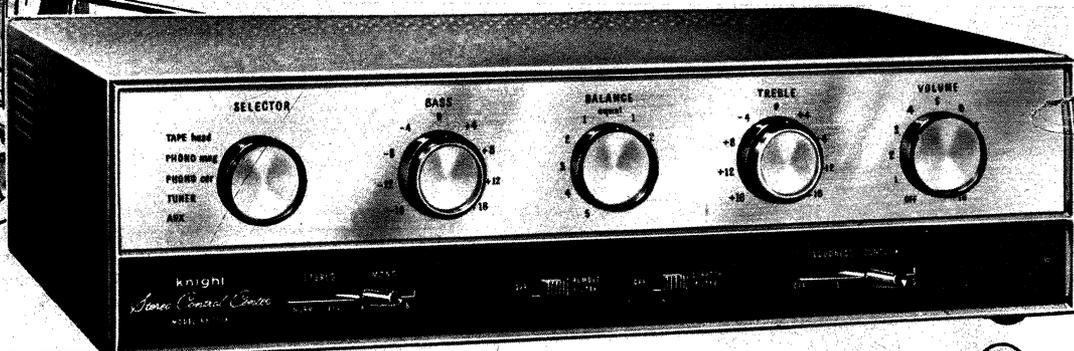
Since alignment is a critical factor in the quality of FM reception, every KN-120 tuner is visually sweep-aligned at the factory—an extremely accurate procedure.

Perfectly matched to each other, both the KN-120 Tuner and KN-734 Amplifier cases employ bonded-to-metal vinyl finishes.



knight DELUXE STEREO HI-FI

Enjoy the splendor of stereophonic musical entertainment in your own home for far less than you thought possible—with deluxe Knight stereo components. These superb units are your finest values . . . by any standard of comparison!

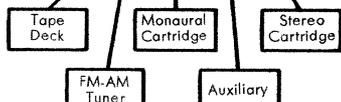
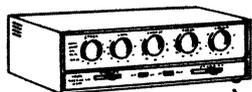


GUARANTEED FOR ONE FULL YEAR

KN-700A



VERSATILE, LOW-COST STEREO CONTROL CENTER
COMPLETE CONTROL OF STEREO PROGRAM SOURCES



5 STEREO CHANNELS. Inputs for: stereo tape deck; stereo magnetic or ceramic cartridges; stereo FM-AM tuner; and auxiliary.

LOUDNESS COMPENSATION

Four-position lever-action switch provides correct tonal balance at moderate and low volume levels.



MATCHES ANY CARTRIDGE

Control at rear for adjusting magnetic phono input impedance—assures maximum fidelity with any magnetic cartridge.



NEW knight KN-700A Deluxe Stereo Preamp Control Center

NET

~~\$89.95~~

\$9.00 Down

- Separate Tone Controls For Each Channel
- Instant Fingertip Switching of Entire System to Stereo or Monaural, Left to Right Channels
- Master Volume and Balance Controls
- DC on All Tube Filaments for Hum-Free Operation

Make the new and extremely versatile KN-700A Stereo Preamp Control Center the "brain" of your stereo music ensemble. Offers complete control over stereo tapes, records and FM-AM broadcasts, plus any monaural sound source. A fingertip lever instantly switches your music system to stereo or monaural operation, and reverses left and right channels. Features 10 inputs (5 pairs), each selected from the front panel! Wide-range Balance control makes any room ideal for stereo listening. Variable input loading assures optimum fidelity with any magnetic cartridge. Color styling of the KN-700A features beige leather-grain finish in vinyl plastic, bonded to the metal case; gold and beige, anodized aluminum panel. Check the money-saving combination offers, featuring the Knight KN-700A Stereo Preamp Control Center and other Knight amplifiers, on the following page.

SPECIFICATIONS: *Response:* ±1.0 db, 20 to 20,000 cps. *Hum Level:* 55 db below full output on tape channels; 60 db below output on magnetic; 80 db below output on auxiliary. *Sensitivity:* Mag input, 2.5 mv for 1-volt output; Tape Head inputs, 2.2 mv for 1-volt output. *10 Inputs (2 each):* Tape Head, Magnetic Phono, Ceramic Phono, Tuner and Auxiliary. *Outputs (3 pairs):* Tape (without Tone and Volume); Tape (with Tone and Volume); Amplifier (cathode follower). *Controls:* Selector (Tape Head, Magnetic RIAA, Ceramic RIAA, Tuner, Aux); separate Bass and Treble for each channel; Master Volume; Balance; Rumble Filter; Scratch Filter; 4-pos. Loudness; Function (Stereo, Reverse, Monaural A, Monaural B). Tuner Level and Magnetic Input Loading controls on rear. 2 jacks for KNR remote control unit, below. 4 1/2x15 1/4x8 1/2". U.L. Approved. For 110-120 v., 60 cycle AC. Wt., 13 lbs.

92 SU 424. NET 89.95

NEW knight KNR Stereo Remote Control Unit

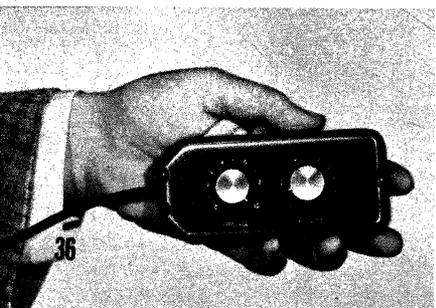
ONLY

~~\$14.95~~

Plugs into rear panel of the KN-700A, above. Features convenient, remote control over volume, balance and mode of operation. *Controls:* Balance-Volume (single concentric knob); Channel Reverse; Function (Monaural, Stereo). Case in brown; white and gold panel—finished to match the KN-700A. Supplied with 20-ft. remote control cable. HWD: 2 3/8x5 1/4x1 1/4". Shpg. wt., 2 1/2 lbs.

92 S 426. NET 14.95

For Stereo Systems Using Knight Components, See Pages 6-11; 16, 17

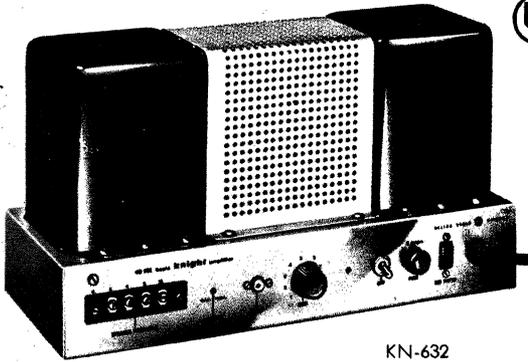


FINEST QUALITY AT LOWEST COST

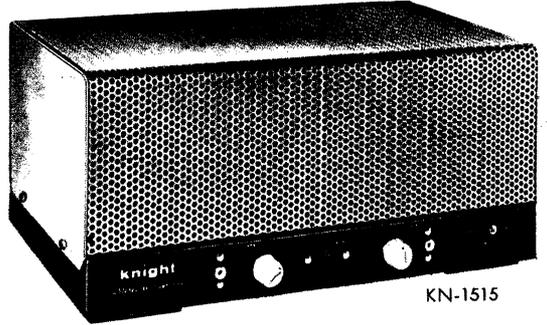
Knight high-fidelity components offer music lovers the ultimate in dependability and value. They are created by Allied and precision-built to rigid specifications to give you maximum value for your hi-fi dollar. Unconditionally guaranteed for one full year.

DAZZLING STEREO SOUND

Full-range stereo records and tapes are here today for your enjoyment. Recording companies are turning out cascades of delightful new sounds, and radio stations are beginning to have regularly scheduled stereo FM-AM broadcasts. Enjoy all that high-fidelity has to offer now—with latest Knight stereo components.



KN-632



KN-1515

knight KN-632 32-Watt Basic Amplifier

NET

- Top Performance with Power to Spare
- Response, 20-40,000 cps ± 0.5 db
- Output Tube Bias and Balance Controls
- Variable Damping Control
- High-Quality Potted Transformers

\$7.45 Down

Built to precision standards, the Knight 32-watt basic amplifier offers just the features you want—at a price that saves you many dollars. Its specifications mean genuine high fidelity—distortion at 32 watts is less than $\frac{1}{2}$ of 1%. Most important, in everyday music listening at ordinary room volume, the response of the KN-632 gives you music reproduction with diamond-like clarity. When needed, its ample reserve of power may be depended upon to provide music at concert-hall levels, with equal fidelity. Use two for deluxe stereo sound. It is provided with such refinements as variable damping, output tube bias control, output tube balance control, and a level control; it is safely fused for circuit protection. Finished in gold and satin black.

SPECIFICATIONS: Response: ± 0.5 db, 20 to 40,000 cps at 32 watts output. Harmonic Distortion: Less than 0.5% at mid-frequencies at 32 watts output—never exceeds 1.5% from 20-20,000 cps. I.M. Distortion: Less than 2% at 32 watts output. Sensitivity: 0.4 volts input required for 32 watts output. Hum Level: -75 db. Input Impedance: 100,000 ohms. Output Impedances: 4, 8, 16 ohms. $7\frac{1}{2} \times 14\frac{1}{4} \times 5\frac{1}{2}$ ". U.L. Approved. For 110-120 volts, 60 cycles AC. Shpg. wt., 25 lbs. 92 SU 404. NET 74.50

knight KN-1515 Stereo Basic Amplifier

NET

- Advanced, Single-Chassis Design
- Use It as 30-Watt Monaural Amplifier
- Use It as Two 15-Watt Amplifiers
- Convert It to Stereo or Monaural Use by Simply Flicking a Switch

\$7.45 Down

One of the most advanced amplifiers available today, the Knight KN-1515 is a model of expert engineering. Every convenience has been incorporated into its construction to make it as versatile, and as simple to operate, as possible. A superb 30-watt basic amplifier for use with one speaker, its dual design lets you convert it for use in stereo systems by simply flicking a switch. It then becomes two 15-watt basic amplifiers, with individual gain controls, on a single chassis. When used with the new Knight KN-700A Stereo Preamp Control Center described on page 36, it will handle any stereo sound source—records, tapes, etc.

Output: 30 watts monaural; 15 watts per channel on stereo. Response: ± 0.5 db, 20 to 20,000 cps. Distortion: harmonic, 0.5% at mid-frequencies at 15-watt output—never exceeds $1\frac{1}{2}$ %, 20-20,000 cps; IM, less than 2%. Output Impedances (each section): 4, 8, 16, 32 ohms. Controls: Left Channel Gain Control; Stereo-Monaural Slide Switch; Right Channel Gain Control. Four EL84 output tubes. Gold finished metal cage. HWD: $6 \times 13 \times 8\frac{1}{2}$ ". U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 21 lbs. 92 SU 414. NET 74.50

SAVE

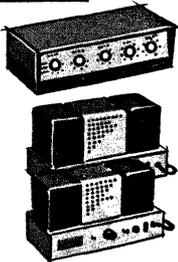
Stereo Preamp With 2 Basic Amplifiers

ONLY

\$228.95

Save \$10.00

Start on your stereo music center now, with the Knight KN-700A Stereo Preamp Control Center and two Knight KN-632 Basic Amplifiers. You make an appreciable \$10.00 savings on the package! Add two speakers and stereo record changer or stereo tape deck for a complete stereo music system. Add a stereo FM-AM tuner later, for stereo radio broadcasts. You'll be thrilled with this dazzling new sound! Shpg. wt., 63 lbs. 36 SZ 802-3. All 3 228.95



SAVE

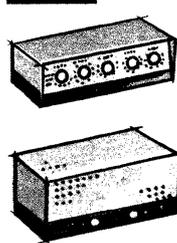
Stereo Preamp with Stereo Amplifier

ONLY

\$156.45

Save \$8.00

Two of the newest Knight components—the remarkable KN-700A Stereo Preamp Control Center and the KN-1515 Stereo-Monaural Basic 30-Watt amplifier—at a savings of \$8.00! Add only two speakers and any stereo sound source—stereo tape deck, stereo record changer, stereo FM-AM tuner—for thrilling stereophonic sound. You'll marvel at the easy-to-use control facilities—and you'll be delighted with the sound! Wt., 34 lbs. 36 SU 801-2. Both Units 156.45



TOP-VALUE **knight** STEREO TUNER

More for your money in latest stereo high-fidelity! A notable achievement in a first-class stereo component, the new Knight KN-130 "Bantam" Stereo FM-AM Tuner brings you reception of stereo FM-AM broadcasts, FM broadcasts only, or AM broadcasts only. Highly efficient . . . remarkably low in cost . . . and guaranteed by Allied for one full year!

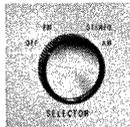


KN-130

GUARANTEED FOR ONE FULL YEAR

REMARKABLE VALUE STEREO TUNER AN ALLIED EXCLUSIVE

COAXIAL TUNING CONTROLS



Convenient, three-way tuning—either FM separately, AM separately, or FM-AM stereo tuning—from dual concentric knobs. Provides an extra measure of convenience in operation.

SENSITIVE FM CIRCUIT



Highly efficient limiter-discriminator FM circuitry. Offers good noise rejection and excellent sensitivity for clear reception of weak or distant FM stations.

AFC FOR "LOCK-IN" TUNING



As you dial near an FM station, the automatic frequency control (AFC) takes over and automatically "locks in" the station. AFC-off for tuning weak stations.

NEW **knight** KN-130 "Bantam" Stereo FM-AM Tuner

NET

\$79.50

\$7.95 Down

- Matches Knight KN-720 "Bantam" Stereo Amplifier
- Easy-to-Use Dual Concentric Knobs for FM Tuning, AM Tuning, or Stereo FM-AM Broadcast Reception
- Dual Outputs for Stereo/Monaural Tape Recording
- Automatic Frequency Control for Effortless FM Tuning
- Trim and Compact "Space Saver" Styling

Newest version of the famous, top-value Knight "Bantam" tuners—ready for sparkling stereo FM-AM broadcast reception, FM reception only, or AM reception only. The new KN-130 "Bantam" Stereo FM-AM Basic Tuner is a highly capable unit, employing efficient circuitry and all of the features necessary for thoroughly enjoyable FM-AM broadcast reception. A single, convenient concentric knob provides separate FM and AM tuning, or FM-AM together for receiving stereophonic FM-AM music broadcasts. Dual high-impedance outputs permit stereo or monaural tape recording of program material. Automatic frequency control on FM for accurate tuning—FM stations "lock in" whenever their dial setting is approached. AFC-off position allows tuning in weak or distant stations. The "Bantam" is attractively color-styled in brown leather-tone finish, with brushed brass panel and ebony trim. Blends with any room decor.

FM Sensitivity: 4 microvolts for 20 db of quieting. *AM Sensitivity:* 10 microvolts for 20 db signal-to-noise ratio. *FM Bandwidth:* 180 kc. *FM Response:* ± 0.5 db from 20-20,000 cps. *Controls:* Selector (On-Off, FM, Stereo, AM); dual concentric knobs for FM and AM Tuning; AFC Off-On. *High-Impedance Outputs:* two for FM; two for AM. 8 tubes; selenium rectifier. Includes two 36" audio cables, built-in AM loopstick antenna, and FM antenna. Size, 3 $\frac{1}{2}$ x11 $\frac{3}{8}$ x9". U.L. Approved. For 110-120 v., 50-60 cycle AC. Shpg. wt., 13 lbs.

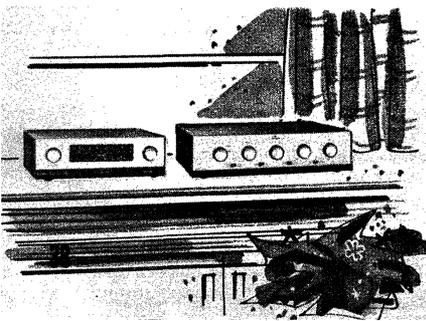
92 SU 421. NET. 79.50

SAVE! "Bantam" Stereo Amplifier & Tuner Combination Offer

BOTH FOR ONLY \$149.45 Take advantage of this excellent opportunity to get started in stereo with the new Knight "Bantam" twins—the KN-130 Stereo FM-AM tuner and the KN-720 20-Watt Stereo Amplifier—at a savings of \$10.00! You need add only a stereo speaker system (2 speakers) for reception of stereo FM-AM broadcasts; add speaker system and stereo record changer for superb 3-dimensional sound from new stereophonic records. Both units match each other in size, appearance and color styling—both offer excellent high-fidelity performance! Shpg. wt., 28 lbs.

36 SU 805-2. Only \$14.95 Down. BOTH FOR 149.45

See Pages 6-7 for New Stereo Systems Featuring "Bantam" Units

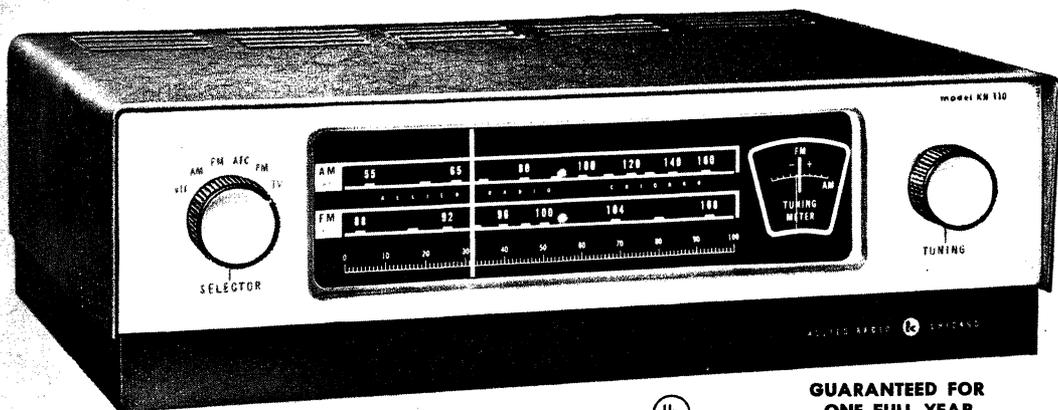


**BEAUTIFUL "SPACE-SAVER"
CUSTOM STYLING**

Unusually neat in appearance, Knight high-fidelity components are styled to take their place in any room . . . and to blend harmoniously with any decor. Compact styling permits placing anywhere.

SAVE! DELUXE knight FM-AM BASIC TUNER

A rare value . . . presented by Allied to enable discriminating music lovers to own and enjoy a brilliant high-fidelity FM-AM tuner . . . at modest cost. One of Allied's most popular components, the performance of the KN-110 will delight you! It's unconditionally guaranteed for one full year . . . and is also covered by Allied's 15-day trial with money-back guarantee.



KN-110



**GUARANTEED FOR
ONE FULL YEAR**

knight KN-110 Deluxe Basic FM-AM Hi-Fi Tuner

NET

~~\$99.50~~

\$9.95 Down

- Deluxe Styling and Custom-Quality Throughout
- Tuned RF Stage on FM and AM for High Sensitivity
- AFC Automatically "Locks-In" FM Stations
- Tuning Meter Simplifies Tuning on FM and AM
- Dual Limiters in FM Circuit for Maximum Noise Rejection
- Precision 11-Tube Circuit of Advanced Design

True high-fidelity FM reception, plus all the broadcast quality of AM transmissions are yours with this splendid Knight Deluxe FM-AM Basic Tuner. The KN-110 can be used with any high-fidelity amplifier having volume and tone controls. Reception is excitingly clear—you'll find yourself listening to the wonderful array of musical programs available on the air today for hours at a time! The precision tuning meter and AFC—automatic frequency control—make accurate tuning easy; there's no drifting off station, no irritating distortion; simply the cleanest, clearest broadcast reception this side of the transmitter! The selector switch offers FM tuning without AFC for tuning weak or distant stations adjacent to strong stations. In overall quality and attractive styling—in performance and dependability of operation—in real value that gives you the most for your hi-fi dollar—it's the year's outstanding buy!

DELUXE FEATURES. Includes: precision, 3-gang tuning capacitor; separate tuned RF stages for both FM and AM for high sensitivity; FM discriminator with dual limiters; 10-kc whistle filter on AM; adjustable AM loopstick antenna for best AM reception; tuner logging scale to permit quick and easy location of favorite stations; cathode follower with two outputs—one with level control for connection to amplifier, one constant level output for making "off-the-air" tape recordings. Tuning meter provides extremely accurate and easy tuning of both FM and AM stations. Needle of the tuning meter gives a clear visual indication when the station of your choice is properly tuned in to the peak signal point. Handsome, illuminated dial face is set off by the gleaming brushed brass panel and base in black trim. The case itself is finished in distinctive, "leather-tone" brown.

SPECIFICATIONS: *Sensitivity:* FM, 2½ microvolts for 20 db, 4 microvolts for 30 db quieting; AM, 5 microvolts for 20 db signal-to-noise ratio. *IF Bandwidth (FM):* 200 kc. *Controls:* Function Selector (Off, AM, FM-AFC, FM, TV) and Tuning. *Distortion:* Less than 2% at 1.5 v. output. 11 tubes, plus rectifier. Size, 4x13½x10". Brown leather-tone finish case; brushed brass panel and black trim. The KN-110 is provided with a built-in ferrite AM antenna, FM indoor folded dipole antenna, and 36" output cable. U.L. Approved. For operation from 110-120 v., 50-60 cycle AC. Shpg. wt. 17 lbs.

92 SU 403. NET. 99.50

**GET MORE FOR YOUR MONEY
WITH THIS
TOP-QUALITY TUNER**

PRECISION TUNING METER

For precise, distortionless tuning on both FM and AM, there is an accurate tuning meter. With this feature, even weak stations are easy to tune in "right on the nose". (Especially useful when tuning FM stations with AFC off!)



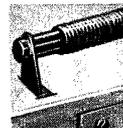
SIMPLE FUNCTION SELECTION

Clearly marked selector switch turns set on and chooses AM, FM with AFC (automatic frequency control), FM without AFC—for tuning distant stations or weak stations close to strong stations—and TV position.



AM LOOPSTICK ANTENNA

Fully adjustable, sensitive AM loopstick antenna, hinged-mounted on the rear of chassis. Rotates for best reception of AM signal from any direction. Makes it easier than ever to get top-notch AM broadcast quality.



EXTRA FEATURES

- Cathode Follower Output—Use It Up To 200 Ft. From Amplifier
- Can Be Custom-Installed in Cabinet
- "Space-Saver" Styling—Can Be Placed Practically Anywhere

Typifying the excellence of Knight high-fidelity engineering, the top-rated KN-110 FM-AM tuner offers top performance at low cost.

EXCEPTIONAL BUYS IN **knight** HI-FI

OUR MOST POPULAR ECONOMY-PRICED AMPLIFIER. Thousands of "Mini-Fi" amplifiers are in use throughout the country today. One of our finest values for genuine high-fidelity reproduction of sound, it's a top-rated, "Best Buy."

EXCEPTIONAL
AMPLIFIER BUY



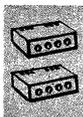
GUARANTEED FOR ONE FULL YEAR



CHECK THE FEATURES:

CAN BE USED FOR STEREO

Never obsolete, two Mini-Fi's can be used with the Knight Adapter below, for stereo with centralized control.



5 VERSATILE INPUTS

For all accessory items — NARTB tape head playback; magnetic, ceramic or crystal cartridge; tuner; etc.



RUMBLE FILTER

A deluxe feature of the "Mini-Fi" amplifier. Highly effective in filtering out low-frequency mechanical noises originating in the turntable. Switch on rear panel permits turning filter on or off.



NEW **knight** KN-750 Stereo Adapter Unit

ONLY

\$14.95



For use with two Mini-Fi's (or other pair of 10 or 12-watt amplifiers with identical controls), in stereophonic music systems. Provides centralized control of balance, volume, channel switching and mode of operation. *Controls:* Balance; Volume; Phasing; Reverse; Stereo-Monaural switch. 3 3/4 x 6 x 3 1/2". 1 3/4 lbs.

92 S 427. NET.....14.95

knight KN-510 "Mini-Fi" 10-Watt Amplifier

NET

\$39.95

\$4.00 Down

- True Hi-Fi Performance & Control Flexibility
- Excellent for Budget-Priced Music Systems
- Employs Newest Circuitry and Latest Tube Types
- Flat Frequency Response: ± 1 db, 20-20,000 cps
- Newest Color Styling—Blends With Any Decor
- Perfect for Use in Pairs for Stereo Systems

Allied's own Knight KN-510 "Mini-Fi" 10-watt amplifier exemplifies high-fidelity "know-how" at its best. Remarkably low in cost, and one of the finest units of its type—thousands of "Mini-Fi's" are currently in use in hi-fi music systems. Its top-notch circuitry is blended with ease of operation—compactness—attractive styling and finish—and safe, reliable construction. Has inputs for NARTB-equalized tape head playback; FM or FM-AM radio tuner; magnetic, crystal or ceramic phono cartridge; etc. Bass and treble controls allow you to suit music to your personal listening tastes and room acoustics. Handsomely finished in brown, with white and gold front panel; styled to blend with any type of room decor, furniture or cabinetry. Clearly marked, smooth-action controls; pressure-formed steel case. Although the "Mini-Fi" is small in size, it's a king-size value!

Rated Output: 10 watts; 20-watt peaks. *Distortion (at rated output):* Harmonic, less than 2%; IM, less than 3%. *Response:* ± 1 db, 20 to 20,000 cps at rated output. *Hum:* 65 db below 10 watts. *Sensitivity:* Magnetic phono, 8 millivolts for 10 watts; Tape head, 4 millivolts for 10 watts. *5 Inputs:* Tape Head, Magnetic Phono, Crystal-Ceramic Phono, Tuner, Auxiliary; *Controls:* Equalizer-Selector (Tape, Magnetic Phono, RIAA, Eur, Radio, Aux); Volume; Bass; Treble; Off-On. Rumble filter on rear panel. *Output Impedances:* 4, 8 and 16 ohms, plus high-impedance for recording. *Tubes:* ECC83, 6CQ8, 2—6V6GT; EZ80 rectifier. 3 3/4" high (including feet), 11 1/2" wide, 9" deep. U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 10 lbs.

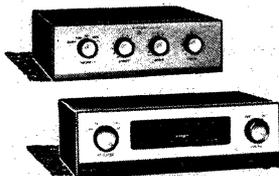
92 SX 409. NET.....39.95

SAVE! "Mini-Fi" Amplifier & KN-130 Tuner Combination

BOTH ONLY

\$109.45

Save \$10.00

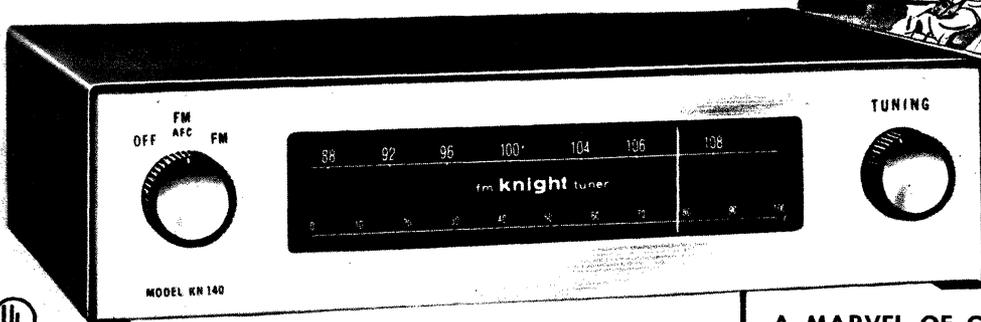


Two first-quality components—at combination savings of \$10.00! Includes: Knight KN-510 "Mini-Fi" Amplifier and the new KN-130 FM-AM Tuner. Add only a speaker system and a changer to have a complete hi-fi system. Wt., 23 lbs.

36 SU 803-2. Both Units, Only..109.45

TOP QUALITY FOR LESS—CREATED BY ALLIED

ONE OF THE "BEST-VALUE" FM TUNERS IN THE MARKET. A beautiful example of neat, careful design, the new Knight KN-140 Basic FM Tuner offers you an array of fine features. For thoroughly enjoyable hi-fi reception at an economy price it's the perfect choice.



GUARANTEED FOR ONE FULL YEAR

ULTRA-COMPACT!

NEW **knight** KN-140 Basic FM Tuner—A Rare Buy!

ONLY

~~\$4.95~~
\$5.00 DOWN

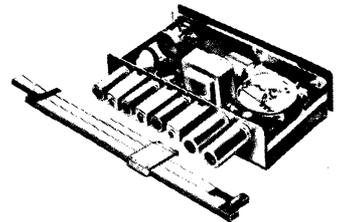
- Actual Size: 2 1/4" High, 9" Wide, 7 5/8" Deep!
- Tunes the Full FM Band—88 to 108 Mc
- Automatic Frequency Control "Locks In" Stations
- Tape Recorder Output for "Off-the-Air" Recordings
- Weighted Flywheel Tuning; Illuminated Dial Scale
- Attractive, "Leather-Tone" & Brass Styling

The new Knight KN-140 Basic FM Tuner is a perfect example of painstaking design, truly skillful engineering and compactness. It provides excellent reception with its built-in, line cord antenna—with a simple dipole antenna (or other external FM antenna), its performance easily equals tuners costing up to twice its modest price!

Ultra-compact in size, you can use the KN-140 anywhere you would ordinarily place a book; table top, shelf, mantel, etc. Ideal for use as the extra tuner in den, study, rumpus room—makes a wonderful gift! Can be used to play through hi-fi systems, TV sets, tape recorders, table-model AM radios, and similar units having input jacks. Automatic frequency control (AFC) for effortless tuning—FM stations "lock in" when their dial setting is approached. AFC can be turned off to permit tuning weak stations. Illuminated dial scale and weighted tuning flywheel for ease in station selection. Soft brown "leather-tone" finish, with gleaming brushed brass panel, complements any home decorative motif. *Unconditionally guaranteed by Allied for one full year.*

SPECIFICATIONS. *Sensitivity:* 5 μ v for 20 db of quieting. *Audio Output:* Approximately 0.5 volt. *Hum and Noise:* -40 db. *IF Bandwidth:* 180 kc. *Controls:* Tuning; Off-On-AFC. 2 high-impedance outputs. Grounded-grid RF amplifier; ratio detector. Includes built-in, line cord antenna and 3-ft. output cable. Size, 2 1/4" high, 9" wide, 7 5/8" deep. U.L. Approved. For 110-120 v., 50-60 cycle AC. Shpg. wt., 7 1/2 lbs.
92 SX 425. NET. 49.95

A MARVEL OF COMPACT PRECISION ENGINEERING



BUILT LIKE A FINE CAMERA

The KN-140 is so well-planned and so carefully designed, that it has the look and feel of a fine camera. Its compact layout of parts and extremely neat wiring, make it a model of simplicity and functional design.

AFC FEATURE

"Locks-in" the station of your choice—defeat switch aids in tuning weak stations.



FLYWHEEL TUNING

For smooth tuning across the dial—a "plus" feature for accurate station selection.



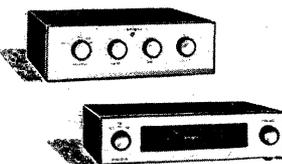
SAVE! "Mini-Fi" Amplifier & KN-140 FM Tuner Combination

BOTH ONLY

~~\$81.90~~
SAVE \$8.00

Includes: Knight KN-510 "Mini-Fi" 10-Watt Amplifier and new KN-140 Basic FM Tuner. Add only

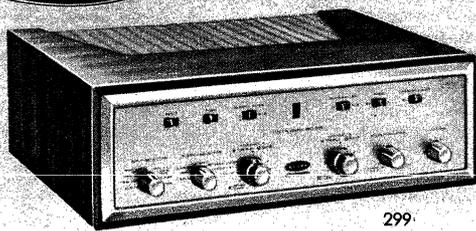
a speaker system to this matched pair of components for the wealth of fine music available over FM stations. Shpg. wt., 18 lbs.
36 SU 800-2. Both Units, Only. 81.90



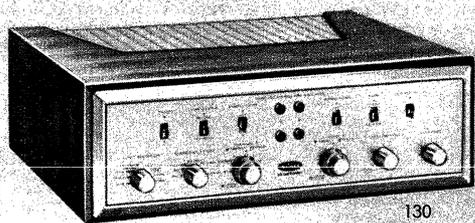
Check Our Complete Selection of Knight Hi-Fi Components. For the best in musical reproduction at moderate cost, watch for the Knight name on high-fidelity products. These splendid components are fully described on pages 32-41; complete music systems employing Knight units can be found on pages 6-17. Unconditionally guaranteed by Allied for one full year, top-value Knight components give you the most for your hi-fi dollar.



LATEST STEREO HI-FI COMPONENTS



299



130

NEW 299 DELUXE 40-WATT STEREO AMPLIFIER

\$199⁹⁵

Less Case

Skillfully engineered and unusually versatile, the Model 299 offers dual 20-watt power sections, dual preamps and latest stereo features. Use it for stereo discs or stereo tapes; for stereo FM-AM broadcasts; for reproduction of monaural records or any other monaural sound source through both amplifier sections to utilize the combined power output of both channels. Separate bass and treble controls for each channel permit adjustment to compensate for differences in speaker system response. High gain stereo cartridge input accommodates cartridges with very low output; phase-reversal switch corrects for reversed phasing on stereo discs and tapes; 2-channel balance control; etc.

Response: 20 to 30,000 cps. *Output (per section):* 20 watts; 40 watts peak. *Harmonic Distortion:* less than 0.8%. *Hum:* 80 db below maximum output. *Inputs:* 2—low-level magnetic (including one for tape deck); 3—high-level magnetic (Tuner, Tape, TV); provision for using mike. *Outputs:* 4, 8 and 16-ohm speaker taps for each channel; tape recorder. *Controls:* Function Selector (Balance A, Balance B, Stereo, Reverse Stereo, Monaural Records, Channel A, Channel B); separate Bass and Treble for each channel; Balance; Loudness; Loudness-Volume; Scratch Filter; Rumble Filter; Channel A and Channel B Magnetic Inputs 1 and 2; On-Off; Phase Reversal Switch; Input Selector Switch (Orig. Col. Orig. AES, Eur-78, RIAA, NARTB Tape, Tuner, Extra). Gold panel, 4 3/4 x 15 1/2". Less case; see page 43. For operation from 105-125 v., 50-60 cycle AC. Shpg. wt., 35 lbs.
91 SU 657. NET. 199.95

NEW 130 DELUXE STEREO PREAMPLIFIER

\$169⁹⁵

Less Case

One of the most advanced preamps available. Incorporates many important engineering advances for stereo reproduction of the highest quality. Has provisions for playing stereo records, stereo tapes, stereo FM-AM broadcasts, or stereo material from any source. Permits connecting both a stereo tape deck and stereo phono cartridge with front-panel selection of either. Center channel output is provided to permit using a third amplifier and speaker for absolute optimum realism in playback. Separate stereo level controls on all inputs adjust the level of both channels simultaneously. Unique, highly convenient indicator lights instantly tell mode of operation.

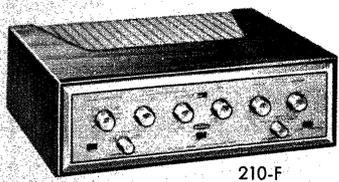
Output: 2 1/2 v.; maximum, 10 v. *Response:* 19 to 35,000 cps. *Harmonic Distortion:* less than 0.15% at rated output. *Hum:* -80 db. *Outputs:* Channel A, Channel B, Center Channel. *Controls:* Stereo Selector (Balance A, Balance B, Monaural Records, Stereo, Reverse Stereo, Channel A, Channel B); Channel A and B Bass and Treble controls (with crossover position); Stereo Balance; Loudness with Loudness-Volume switch; Input Selector (Eur-78, Orig. Lon, Orig. AES, RIAA, Orig. Col, NARTB Tape, Tuner, Extra); Pickup Selector (1, 2); Tape Monitor; Scratch Filter; Rumble Filter; Phase Reverse; On-Off. *Stereo Tape Recorder Controls:* Main Recorder Output; Playback (Monitor); front-panel Tape Monitor switch; NARTB Tape Playback. Gold panel, 4 3/4 x 15 1/4 x 12 1/2". Less case; see table on page 43. For operation from 105-125 v., 50-60 cycle AC. Shpg. wt., 15 lbs.
91 SU 658. NET. 169.95



330-C

330-C BASIC FM-AM STEREO TUNER

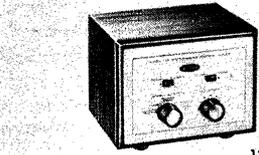
Superbly designed, highly sensitive tuner. Has complete and separate AM and FM sections for reception of stereo broadcasts. Signal strength meter for simple, accurate tuning. *FM Section:* 2 μ v sensitivity for 20 db quieting; 1 μ v with 72-ohm antenna. Wide-band design; 2-mc detector; automatic gain control; 80 db rejection of spurious response from cross modulation by strong local signals permits using this tuner in any location, even close to FM transmitters. *AM Section:* 1 μ v sensitivity for usable audio output; new, extremely effective detector; 10-kc whistle filter; 4 v. audio output for 100% modulation. *Controls:* FM vernier and quick tuning; AM vernier and quick tuning; Off-On; Selector (FM, AM Wide Range, AM Normal, AM Distance). Separate output jacks for feeding stereo amplifier system or tape recorder.
11 tubes; 2 diodes; 6X5 rectifier. 4 3/4 x 15 1/4 x 12 1/2". Less case; see page 43. For 105-125 v., 50-60 cycle AC. 17 lbs.
94 SU 584. NET. 224.95



210-F

210-F DYNAURAL 36-WATT AMPLIFIER

A widely approved, top-quality amplifier. Converts to stereo use with the 135 Stereo-Daptor plus any other Scott amplifier listed in Group I at left, below.
Has front-panel tape monitor and playback switch; new Dynamic Noise Suppressor with continuous adjustment for rumble and hiss suppression; cool-running "candle-flow" circuitry; sub-sonic filter; etc. *Output:* 36 watts. *Response:* 19 to 35,000 cps. *Harmonic Distortion:* 0.5%. *Hum:* -80 db. *Controls:* Selector-Equalizer (Orig. Lon, RIAA, Orig. Col, NARTB Tape and 3 special curves for 78-rpm records including Col, RCA-Lon, Eur, plus Tuner, Tape, TV); Pickup Selector (1, 2); Dynamic Noise Suppressor (low and high-frequency controls); Bass; Treble; Loudness; Loudness-Volume; Speaker Selector; On-Off; Distortion Filter; Tape Monitor. 4, 8 and 16 ohms.
4 3/4 x 15 1/4 x 12 1/2". Less case; see page 43. For 105-125 v., 50-60 cycle AC. 27 lbs.
94 SU 583. NET. 189.95



135

NEW 135 STEREO-DAPTOR CONTROL

Converts monaural systems to stereo. Permits simultaneous control over two amplifiers from a central point. Any amplifier, in any of the following groups, may be used with a second amplifier in the same group. *Group I:* Scott 99-A, B, C, D; 209; 210-F; 120-A, B; 210-C. *Group II:* Scott 121-A, B, C; 210-D, E. *Group III:* Any hi-fi system with separate preamps and basic amplifiers. *Group IV:* Two identical amplifiers having tape monitoring facilities. *Controls:* Master Volume for adjusting volume levels of both channels together; Loudness-Volume Switch; Function Selector (Stereo, Reverse Stereo, Monaural Records, Monaural Channel A, Monaural Channel B); Tape Monitor Switch; Master On-Off Switch.
Includes four 2-ft. shielded cables for all necessary connections to Scott units. Less case; see page 43. Size (HWD): 5 1/2 x 7 x 5 1/2". Shpg. wt., 3 lbs.
91 S 631. NET. 24.95

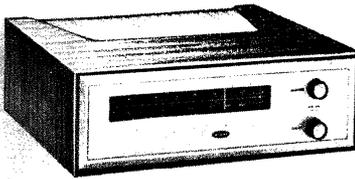


250

NEW 250 40-WATT BASIC AMPLIFIER

An excellent, laboratory-quality 40-watt basic amplifier. Provides clean and undistorted, 40-watt power output on music waveforms. Instantaneous peak power, 80 watts. Long-time continuous maximum output, 35 watts. Less than 0.5% harmonic distortion; less than 0.1% first-order intermodulation distortion. Negligible distortion at lower output levels.
Response: from 12 to 60,000 cps with controlled cut-off characteristics beyond. *Hum:* 85 db below full rated output. *Controls:* Input Level, Hum Balance, DC and AC Balance. Self-balancing phase inverter automatically balances output circuit. Two input circuits of 0.2 and 0.5 megohms, require 0.5 and 1.5 volts input respectively, for full output. *Output Impedance:* 4 to 24 ohms.
Two 6CA7 output tubes. With case. Size, 6 1/2 x 13 x 11". For 105-125 v., 50-60 cycle AC. Shpg. wt., 22 lbs.
91 SU 677. NET. 129.95

DELUXE HIGH-FIDELITY MUSIC COMPONENTS



300

300 FM-AM BASIC TUNER

\$159⁹⁵

Less Case

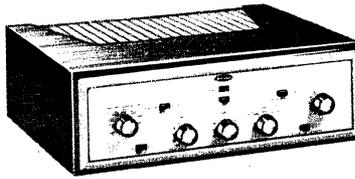
Outstanding in performance and workmanship, this FM-AM basic tuner conforms to Scott's traditional standards of excellence in design.

Features absolute freedom from noise, drift and distortion. *FM Section:* Silver-plated front end for maximum sensitivity; 3 μ v sensitivity on 300-ohm input for 20 db of quieting; 150 kc IF passband assures reception of weak stations without distortion; 2 mc detector bandwidth and temperature-compensated oscillator for drift-free tuning; automatic gain control; 2 stages of full limiting; steep IF response for maximum selectivity. *AM Section:* tuned RF stage; 2 selectivity positions; 10 kc whistle filter. *Controls:* Selector (FM, AM Normal, AM Wide Range); Tuning, Flywheel tuning and "precision-ray" tuning indicator. *Outputs:* Main, Tape Recorder, Multiplex. Advanced 8-tube circuit employs 2-6U8, 3-6AU6, 6BE6, 12AU7, 6BR5; 2 crystal diodes; 6X4 rectifier. Size, 5x15 $\frac{1}{2}$ x12 $\frac{1}{2}$ ". Less case, below. For operation from 105-125 volts, 50-60 cycle AC. Shpg. wt., 14 lbs.
94 SU 589. NET. 159.95

311-C BASIC FM TUNER

Moderately priced FM tuner featuring silver-plated front end for high sensitivity. Insures outstanding reception in even the weakest of signal areas. Employs Scott's famous wide-band circuitry for near-perfect station separation—co-channel and adjacent channel interference is practically eliminated. Temperature-compensated circuit is absolutely free from drift. RF stages of the circuit are heavily silver-plated for maximum efficiency. Low-impedance output permits the use of connecting cables up to 70 ft. in length; tuner may be placed wherever convenient. The 311-C basic FM tuner is attractively styled to match other Scott high-fidelity components.

Includes: automatic gain control; signal strength meter; illuminated lucite dial with coarse or fine tuning. Wide-band circuitry consists of 150-kc IF passband, 2 mc detector bandwidth; 2 stages of full limiting; 80 db rejection of spurious response. Separate tape recorder and multiplex output. *Sensitivity:* 2 μ v for 20 db of quieting; 1 μ v with matched 72-ohm antenna. *Max. Audio Output:* 4 v. for 75 kc deviation. *Controls:* On/Level; Tuning, 6 tubes; 2 diodes; 6X4 rectifier. Size, 4 $\frac{1}{2}$ x13 $\frac{1}{4}$ x9 $\frac{3}{4}$ ". Less case; see listing in table below. For operation from 105-125 volts, 50-60 cycle AC. Shpg. wt., 15 lbs.
94 SU 586. NET. 124.95



99-D

99-D DELUXE 22-WATT AMPLIFIER

\$109⁹⁵

Less Case

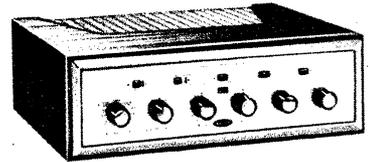
Many important features make the 99-D an exceptional choice for the hi-fi music ensemble. Unusually versatile, it offers a wide array of

features, such as: "Quiet-Sit" control settings; speaker switch for selecting either of two speakers or both speakers at once; tape recording monitor-playback switch for use with 3-head recorders; tape recorder output and monitoring jacks; input selector switch for two magnetic pickups—allows connecting both a record changer and turntable and selecting either; etc. *Output:* 22 watts; 44-watt peaks. *Response:* Flat from 20 to 30,000 cps. *Harmonic Distortion:* Less than 0.8%. *Hum:* -80 db. *Output Impedances:* 4, 8 and 16 ohms. *Controls:* Selector-Equalizer (Eur 78, Orig Lon, Orig AES, RIAA, NARTB-RCA Ortho, Orig Col, NARTB Tape, Tuner, Tape); Mag 1 or 2; Rumble Filter; Scratch Filter; Volume-Loudness; Loudness; Input Level; Bass; Treble; Off-On. 4 $\frac{3}{8}$ x15x12". Less case; see below. For operation from 105-125 v., 50-60 cycle AC. Shpg. wt., 20 lbs.
94 SU 582. NET. 109.95

310-B BASIC FM TUNER

Frequently used in professional broadcast monitors, the 310-B basic FM tuner fulfills the most exacting hi-fi requirements. Wide-band circuit design, heavy silver plating in the RF and mixer sections, and three stages of full limiting provide noise-free reception of weakest signals. Three IF stages and wide-band detector insure maximum selectivity and virtual elimination of adjacent channel and co-channel interference; provide exceptional rejection of ignition noise and cross modulation. Extremely effective automatic gain control circuit prevents distortion on strong local signals and makes manual control of sensitivity unnecessary. Absolutely free of drift.

Temperature-compensated. Has 150-kc IF passband and 2 mc limiters and detector; 3 stages of full limiting. Interstation Noise Suppressor eliminates FM "hiss". Signal strength meter. Low-impedance output permits use of long leads. Tape recorder output. *Sensitivity:* 1 $\frac{1}{2}$ μ v on 300-ohm input with 20 db of quieting. 85 db rejection of cross modulation. *Max. Audio Output:* 4 v. for 75-kc deviation. *Controls:* Tuning, Fine Tuning, Level, Noise Suppressor. Employs 9 tubes; 3 diodes; 6X5 rectifier. Size, 4 $\frac{1}{2}$ x13 $\frac{1}{4}$ x9 $\frac{3}{4}$ ". Less case; see listing below. For operation from 105-125 v., 50-60 cycle AC. Shpg. wt., 14 lbs.
94 SU 587. NET. 174.95



209

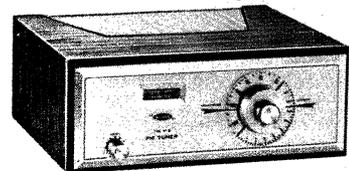
NEW 209 DELUXE 36-WATT AMPLIFIER

\$139⁹⁵

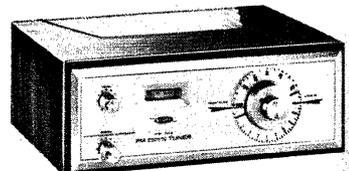
Less Case

Superb design and traditional excellence characterize the 209 deluxe amplifier. Has provision for use with the 135 Stereo-Daptor described on page 42.

Features: ample power-reserve; unique, new Acoustic Level control for optimum adjustment to any room conditions and speaker efficiencies; high sensitivity for excellent operation with tape recorder heads and cartridges having very low output; special DC bias supply for pre-amp and output tubes to assure minimum distortion at full power output; complete tape recorder facilities; etc. *Output:* 36 watts. *Response:* 19 to 35,000 cps. *Harmonic Distortion:* less than 0.5%. *Hum:* -80 db. *Controls:* Selector-Equalizer (Eur 78, Orig Lon, Orig AES, RIAA, Orig Col, NARTB Tape, Tuner, Tape, TV); Bass; Treble; Loudness; Loudness Volume; Speaker Selector; Scratch Filter; Rumble Filter; Acoustic Level; Monaural/Stereo-Daptor; Tape Monitor. 4, 8 and 16 ohms. 5 $\frac{1}{8}$ x15 $\frac{1}{2}$ x12 $\frac{1}{2}$ ". Less case, below. For 105-125 v., 50-60 cycle AC. Wt., 25 lbs.
91 SU 633. NET. 139.95



311-C

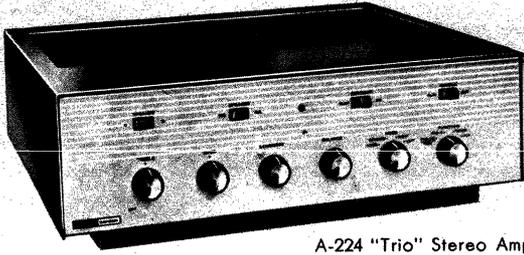


310-B

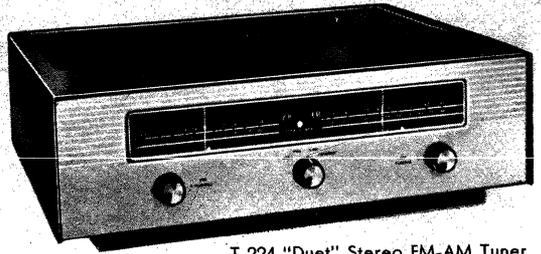
CASES FOR SCOTT UNITS

Trim and attractive, these cases permit the use of Scott components in table-top, shelf and bookcase installations. Two types of cases are available: "hand-rubbed wood in mahogany, blonde or walnut finishes; steel case with imitation-leather finish. All cases have ventilating louvers to allow circulation of air. Av. shpg. wt., 1 $\frac{1}{2}$ lbs., except Types E, EW, EWB and EWW, $\frac{1}{2}$ lb.

No.	Type	HWD	Finish	For:	EACH
94 SX 577	C†	4 $\frac{3}{4}$ x15 $\frac{1}{2}$ x12"	Leather	99-D, 210-F, 300, 330-C, 299, 209, 130	9.95
94 SX 578	D†	4 $\frac{3}{4}$ x13 $\frac{1}{4}$ x10 $\frac{1}{2}$ "	Leather	310-B, 311-C	9.95
91 S 632	E†	5 $\frac{1}{2}$ x7x5 $\frac{1}{8}$ "	Leather	135 Stereo-Daptor	4.95
94 SX 580	CW*	5 $\frac{1}{8}$ x15 $\frac{1}{2}$ x12 $\frac{1}{2}$ "	Mahog.	99-D, 210-F, 300, 330-C, 299, 209, 130	19.95
94 SX 590	DW*	5 $\frac{1}{8}$ x13 $\frac{1}{8}$ x9 $\frac{1}{2}$ "	Mahog.	310-B, 311-C	19.95
94 SX 581	CWB*	5 $\frac{1}{8}$ x15 $\frac{1}{2}$ x12 $\frac{1}{2}$ "	Blonde	99-D, 210-F, 300, 330-C, 299, 209, 130	19.95
94 SX 591	DWB*	5 $\frac{1}{8}$ x13 $\frac{1}{8}$ x9 $\frac{1}{2}$ "	Blonde	310-B, 311-C	19.95
91 SX 678	CWW*	5 $\frac{1}{8}$ x15 $\frac{1}{2}$ x12 $\frac{1}{2}$ "	Walnut	99-D, 210-F, 300, 330-C, 299, 209, 130	19.95
91 SX 679	DWW*	5 $\frac{1}{8}$ x13 $\frac{1}{8}$ x9 $\frac{1}{2}$ "	Walnut	310-B, 311-C	19.95
91 S 675	EW*	5 $\frac{1}{2}$ x7x5 $\frac{1}{8}$ "	Mahog.	135 Stereo-Daptor	11.95
91 S 676	EWB*	5 $\frac{1}{2}$ x7x5 $\frac{1}{8}$ "	Blonde	135 Stereo-Daptor	11.95
91 S 680	EWW*	5 $\frac{1}{2}$ x7x5 $\frac{1}{8}$ "	Walnut	135 Stereo-Daptor	11.95



A-224 "Trio" Stereo Amplifier



T-224 "Duet" Stereo FM-AM Tuner

Harman-Kardon's Perfectly Matched Stereo Components

A-224 "TRIO" STEREO AMPLIFIER

Engineered for outstanding stereo reproduction, the A-224 actually consists of three excellent instruments in one handsome and compact unit. It is a complete stereo preamplifier with two separate 12-watt amplifier sections; a complete 24-watt monaural amplifier; and a 24-watt amplifier which serves as a single stereo channel, plus a complete stereo preamp which may be used to convert any existing monaural amplifier to serve as the second stereo channel. Versatile facilities of this deluxe unit include: separate bass and treble controls; balance control; mode switch (for choosing stereo or monaural operation); speaker selector switch for choosing regular speaker, or both together; contour control; tape output for recording applications, and rumble filter. A special feature of the A-224 is a switch located on top of chassis which permits paralleling of amplifier sections to provide 24-watt monaural output. Operating the A-224 either stereophonically or monaurally, is simplicity itself!

NET
\$99⁹⁵

\$10.00 Down
Output: 12 watts per channel. Distortion: harmonic, less than 1% at rated output; IM, less than 2%. Response: $\pm 1/2$ db, 15-30,000 cps at 1 watt. Hum: -80 db. Output Imp.: 8, 16 and 32 ohms per channel (4, 8 and 16 ohms when speaker terminals are strapped for monaural operation). Tape Output Level: 1 v. each channel, unaffected by tone and volume controls. Controls: Treble/On-Off; Bass; Loudness; Balance; Mode (Stereo Normal, Stereo Reverse, Monaural Right, Monaural Left); Selector (Tape Lo/Phono Lo, Phono Hi, Tuner, Aux/Tape Hi); Rumble Filter; Contour; 2 Speaker Selector switches. Rear Panel Controls: Equalization Switches (left and right channel); Output Tube Balance (left and right channel); Low Level and High Level Hum Adjust. Four EL84 output tubes. Copper panel; less cage, below. $4\frac{3}{8} \times 13\frac{1}{8} \times 11\frac{1}{2}$ ". For 110-120 v., 50-60 cycle AC. Shpg. wt., 18 lbs.

91 SU 643. NET..... **99.95**

91 SX 652. Cage for Above. Black finish. Wt., 3 lbs. NET... **7.00**

T-224 "DUET" STEREO FM-AM BASIC TUNER

NET
\$114⁹⁵

\$11.50 Down
Companion unit to the A-224 "Trio" amplifier, the "Duet" offers superb performance either as a monaural or a stereo tuner. Incorporates separate AM and FM channels for receiving stereo broadcasts. Jack at rear of chassis makes it readily adaptable for multiplex operation. Simple effective indexing scale (by means of movable tabs that slide across the dial face), permit easy identification of five pairs of stereo FM-AM stations. Trim appearance and brushed copper and black styling make the T-224 perfect for use with the A-224.

FM Section. Low-noise front end consisting of grounded-grid RF amplifier plus grid-fed triode mixer assure an extremely high signal-to-noise ratio. Armstrong circuit with pentode limiter, wide-band Foster-Seely discriminator and automatic frequency control. Provides outstanding FM reception in all signal areas. Sensitivity: $2\frac{1}{2}$ microvolts for 20 db of quieting. Selectivity: 240 kc bandwidth, 6 db down. Distortion: less than $1/2\%$ IM at 30% modulation; less than 3% at 100% modulation; 3 Outputs: FM-AM Monaural and FM Stereo, AM Stereo, FM Multiplex. Antenna Input Impedance: 300 ohms. Output Level: $1\frac{1}{2}$ volts for 100% modulation; $1/2$ volt for 30% modulation.

AM Section. Low-noise, high-gain RF pentode followed by pentagrid converter, wide-band IF stage and high-perveance crystal detector with quick-action AVC (automatic volume control). Built-in low-noise ferrite loopstick antenna. Sensitivity: 10 microvolts. Selectivity: 10 kc bandwidth, 6 db down. Image Rejection: 55 db. **Front Panel Controls:** FM Tuning; Selector (Off-On, FM, AM, Stereo); AM Tuning. Weighted flywheel tuning control. **Tubes:** 2—ECC85, 3—6AU6, 6AL5, 6AT8, 6BA6; selenium rectifier. Size (HWD), $4\frac{3}{8} \times 13\frac{1}{8} \times 12\frac{1}{4}$ ". Includes perforated, black metal cage; brushed copper panel. For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 13 lbs.

91 SU 644. NET..... **114.95**

Deluxe Harman-Kardon Stereo Components

A-250 "EPIC" STEREO AMPLIFIER

New, highly advanced stereo amplifier. Offers: two 25-watt channels for stereo use; 50-watt output for monaural use; or conversion system for use with existing monaural music systems. Exclusive H-K circuitry employs both positive and negative feedback for maximum stability.

Four 6L6GB audio output tubes; DC on preamp tube filaments. Output: 25 watts per channel. Distortion: harmonic, less than 1%; IM, less than 2%. Response: $\pm 1/2$ db, 15-30,000 cps at 1 watt. Output Impedances: 4, 8, 16, 32 ohms per channel. Hum: -85 db. Controls: Treble/Off-On; Bass; Loudness; Balance; Mode (Stereo Normal, Stereo Reverse, Monaural Right, Monaural Left); Selector (Aux 1, Aux 2, Tuner, Phono, Tape Head); Rumble Filter; Scratch Filter; Contour; 2 Speaker Selector Switches; Equalization Selector (RIAA, Eur, NARTB Tape). $4\frac{3}{8} \times 15\frac{7}{8} \times 13\frac{7}{8}$ ". Less cage. For 110-120 v., 50-60 cycles AC. 35 lbs.

91 SU 645. NET..... **179.95**

Cage for Above. Shpg. wt., 3 lbs.

91 SX 646. NET..... **12.50**

TP-200 "CONCERTO" FM-AM TUNER

Brilliant new FM-AM stereo tuner with complete preamplifier control section for any monaural or stereo sound source. Tuner portion of the TP-200 includes separate FM and AM sections for reception of stereo or monaural FM and AM broadcasts; has jack for addition of an FM multiplex adapter. Unique stereo indexer permits quick identification of 6 pairs of AM and FM stereo stations. Dual cathode-follower outputs. Brushed copper and black styling.

FM Section. Sensitivity: $2\frac{1}{2}$ μ v for 20 db of quieting. Selectivity: 240 kc bandwidth, 6 db down. Hum: 60 db below 100% modulation. **AM Section.** Sensitivity: 10 μ v. Selectivity: 10 kc bandwidth, 6 db down. **Front Panel Controls:** FM Tuning; Treble/On-Off; Bass; Loudness; Balance; Mode (Stereo Normal, Stereo Reverse, Monaural Left, Monaural Right); Function (AM, FM, AM/FM Stereo, Multiplex, Phono, Tape, Aux); AM Tuning; Scratch Filter; Rumble Filter; Contour; Equalization. With case, $4\frac{3}{8} \times 15\frac{1}{4} \times 13$ ". For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 20 lbs.

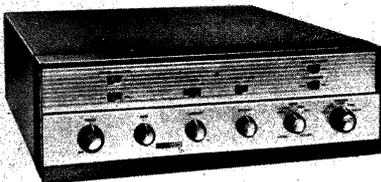
91 SU 647. NET..... **189.95**

HK-250 DUAL 25-WATT STEREO BASIC AMPLIFIER

Not illustrated. A superb new unit that incorporates two 25-watt basic amplifier sections on one chassis. Circuitry is identical to the output stages of the new A-250 stereo amplifier—employs four 6L6GB audio output tubes. The HK-250 is perfect for use with the TP-200; add only 2 speakers to have a highly flexible stereo or monaural music system of magnificent quality.

Output: 25 watts per channel; 50 watts for monaural use. Response: $\pm 1/2$ db, 15-30,000 cps at 1 watt. Distortion: Harmonic, less than 1%; IM, less than 2%. Output Impedances: 4, 8, 16, 32 ohms per channel. Hum: -95 db. Two output tube balance controls. With cage, $6 \times 15 \times 6$ ". For 110-120 v., 50-60 cycle AC. Shpg. wt., 30 lbs.

91 SU 651. NET..... **99.95**



A-250 "Epic" Stereo Amplifier



TP-200 "Concerto" Stereo Tuner

COMPLETE STEREO SYSTEMS. For an outstanding selection of complete stereophonic high-fidelity systems featuring the Harman-Kardon components described above, see pages 20 and 21. These expertly selected systems are priced to bring you exceptional value, and carefully matched to deliver superb performance.

NEW GUIDE LINE HI-FI COMPONENTS



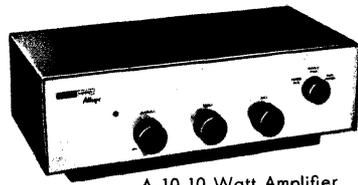
NEW STANDARDS OF QUALITY & STYLING IN ECONOMY-PRICED COMPONENTS



FA-10 FM Tuner-Amplifier



F-10 Basic FM Tuner



A-10 10-Watt Amplifier

FA-10 "SONATA" FM TUNER-AMPLIFIER

NET \$114.95
\$11.50 Down

An exciting, new 3-in-1 unit that offers a sensitive FM tuner, 10-watt amplifier and equalized tape and record preamp control section—on one chassis. Requires only a speaker system for outstanding FM reception—add a record player and tape deck whenever convenient, to form a complete home music system. The versatile FA-10 provides all important hi-fi controls and functions. Tuner employs a new broadband Foster-Seeley discriminator with limiter and automatic frequency control. Has RIAA-equalized magnetic phono input and NARTB-equalized tape head input. Enclosure features traditional Harman-Kardon copper and black styling—sleek and beautiful.

FM Specs. Armstrong circuit with limiter and wide-band discriminator; low noise front end consisting of tuned triode, grounded-grid amplifier and triode mixer. Sensitivity: 2.5 μ v for 20 db of quieting. Selectivity: 200 kc bandwidth, 6 db down. Hum: 60 db below 100% modulation. *Audio Specs.* Uses 2—EL84 output tubes. Output: 10 watts at less than 1% harmonic, and less than 2% IM distortion. Response: $\pm 1/2$ db, 15-30,000 cps at 2 watts. Output Impedances: 8 and 16 ohms. Controls: Function (Tape Head, Phono-RIAA, FM, Aux); Loudness/On-Off; Tuning; Treble; Bass; Contour. With cage, 4 $1/2$ x13 $1/4$ x11". For 110-120 v., 50-60 cycle AC. Shpg. wt., 18 lbs. 91 SU 607. NET. **114.95**

F-10 "TEMPO" BASIC FM TUNER

NET \$69.95
\$7.00 Down

Modestly priced, basic FM tuner that sets new standards of performance, craftsmanship and styling. Incorporates an Armstrong circuit with limiter and new broadband Foster-Seeley discriminator. Employs an extremely quiet front end consisting of a tuned triode, grounded-grid amplifier and triode mixer.

Distortion is remarkably low and capture ratio is excellent. Automatic frequency control provides "lock-in" tuning of FM stations—no drifting. Flywheel weighted tuning mechanism for smooth and easy station selection. Edge-illuminated tuning dial with logging scale. Complete with black enclosure; front panel styled in striking brushed copper. The neat, eye-catching appearance of the F-10 adds a smart touch to any interior decorative scheme.

Sensitivity: 2.5 μ v for 20 db of quieting. *Selectivity:* 200 kc bandwidth, 6 db down. *Discriminator Peak-to-Peak Separation:* 600 kc. *Distortion:* Less than 1% harmonic and IM at 30% modulation. *Hum:* 60 db below 100% modulation. *Output Level:* 1 $1/2$ v. for 100% modulation; 1/2 v. for 30% modulation. *Controls:* On-Off; Tuning. High-impedance output. *Tubes:* 2—ECC85, 3—6AU6, 6AL5; selenium rectifier, 300-ohm antenna input. Size, 4x12 $1/4$ x6 $1/8$ ". For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 10 lbs. 91 SX 606. NET. **69.95**

A-10 "ALLEGRO" 10-WATT AMPLIFIER

NET \$49.95
\$5.00 Down

Embodies every important characteristic of a fine high-fidelity amplifier, at unusually low cost. Perfect for use in pairs for stereo music installations. Frequency response and hum specifications are excellent; controls are flexible enough to accommodate accessory hi-fi equipment that is commonly used in home music systems. Has RIAA-equalized magnetic phono input and NARTB-equalized tape head input. Full-range bass and treble controls allow adjustment of tonal balance to suit individual tastes and room acoustics. The "Allegro" is styled to match the "Tempo" tuner. Enclosure is black; panel is handsomely finished in brushed copper.

Circuit features 2—EL84 output tubes, pentode connected, for clean and undistorted audio reproduction. *Frequency Response:* $\pm 1/2$ db, 15 to 30,000 cps at 2 watts; \pm db, 45 to 20,000 cps at 10 watts. *Rated Output:* 10 watts; 20-watt peaks. *Distortion:* harmonic, less than 1% IM, less than 2%. *Output Impedances:* 8 and 16 ohms. *Hum:* 80 db below full rated output. *Controls:* Loudness/Off-On; Bass; Treble; Function Selector (Tuner/Aux, RIAA-Phono, and NARTB-equalized Tape Head).
 Tape output jack on rear of chassis, unaffected by tone controls. *Tubes:* 2—12AX7, 2—EL84; EZ80 rectifier. Size, 4x12 $1/4$ x6 $1/8$ ". For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 11 lbs. 91 SX 608. NET. **49.95**

AX-20 "ADD-ON" STEREO AMPLIFIER

Perfect for converting existing monaural hi-fi systems to stereo use. The AX-20 is a dual stereo preamplifier, with 20-watt amplifier, on one compact chassis. Provides complete stereo control facilities, including control over existing monaural amplifier of any type and manufacture. Requires only one simple connection to the present amplifier, which may be located as far as 20 ft. away. Requires only the addition of another basic amplifier for stereo use.

Output: 20 watts. *Response:* $\pm 1/2$ db, 15 to 30,000 cps at 1 watt. *Distortion:* harmonic, less than 1%; IM, less than 2%. *Output Impedances:* 8 and 16 ohms. *Hum:* -90 db. *Controls:* Treble/Off-On; Bass; Loudness; Balance; Mode; Function (Tape Head, Phono, Tuner, Aux); Rumble Filter; Contour; Speaker Selection Switch; Equalization. Less cage, below, 4x12 $1/2$ x11 $1/2$ ". For 110-120 v., 50-60 cycle AC, 18 lbs. 91 SU 654. NET. **99.95**
 91 SX 669. Cage for Above. 3 lbs. NET. **8.95**

HK-20 20-WATT BASIC AMPLIFIER

Not illust. Top-quality basic amplifier employing the output circuitry of the AX-20 above. Two HK-20's are ideal for use as the heart of a stereo system; use one HK-20 with the AX-20 for a stereo system of excellent quality, with complete control facilities. Has same specifications as the AX-20. *Tubes:* 2—EL84, ECC83/12AX7; EZ81 rectifier. With cage. Size, 5x10x4". For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 14 lbs. 91 SX 653. NET. **59.95**

TX-20 "SERENADE" BASIC FM-AM TUNER

New, advanced FM-AM basic tuner with many excellent features. FM section employs a pentode limiter, wide-band Foster-Seeley discriminator and automatic frequency control. AM circuit is superb with automatic volume control. *FM Sensitivity:* 2 μ v for 20 db of quieting. *AM Sensitivity:* 10 μ v. *Controls:* FM-AM Tuning; Function Selector (Off-On, FM-AFC, FM, AM). 3 *Outputs:* 2—FM/AM Monaural (cathode follower); and FM multiplex. 8 tubes; selenium rectifier. With copper and black cage. Size, 4 $1/4$ x12 $1/4$ x8 $1/8$ ". For 110-120 v., 50-60 cycle AC. Shpg. wt., 11 lbs. 91 SU 670. NET. **99.95**

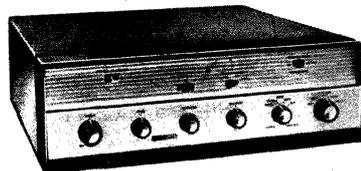
T-250 "ODE" BASIC FM-AM TUNER

Magnificent new FM-AM tuner of exceptional sensitivity and advanced design. Has provision for accommodating FM multiplex adapters; new bar-type tuning indicator; skillfully engineered, FM-AM circuitry. *FM Sensitivity:* 0.95 μ v for 20 db of quieting. Less cage, below, 4 $9/16$ x15 $1/8$ x13". For 110-120 v., 50-60 cycle AC. Wt., 13 lbs. 91 SU 648. NET. **149.95**

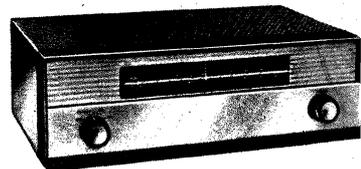
F-250 "LYRIC" BASIC FM TUNER

Not illustrated. Same size and FM circuit as the Model T-250 above, but without AM circuitry. Less cage, below. Wt., 13 lbs. 91 SU 649. NET. **129.95**

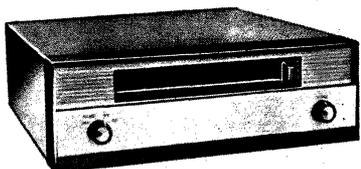
MODEL TC-50 METAL CAGE. For T-250 and F-250 tuners above. Brushed copper with black panel. Shpg. wt., 3 lbs. 91 SX 650. NET. **12.50**



AX-20 "Add-On" Stereo Amplifier



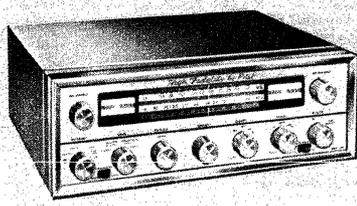
TX-20 Basic FM-AM Tuner



T-250 Basic FM-AM Tuner



TOP-QUALITY STEREO COMPONENTS



NEW SM-245 STEREO AMPLIFIER

NET \$189.50
\$18.95 Down

A carefully engineered, beautifully styled, 32-watt stereo amplifier. Delivers 16 watts output per channel for stereo and 32 watts output for monaural use. Versatile control facilities permit stereo or monaural operation from all inputs; monaural operation from either Channel A or Channel B input. Features include: automatic shutoff position on the power switch for turning off the amplifier after the last record plays; stereo or monaural operation for both speaker systems; left to right stereo reverse switch; stereo balance control. Also has dual mike inputs for stereo recording; low-impedance, dual tape outputs for stereo recording. Tape signals are independent of volume and tone controls. Low-level audio tube filaments are DC-powered to eliminate hum. Equalized tape head input for playback of recorded tapes.

Output: 16 watts per channel; 32 watts for monaural use. *Response:* ±1 db, 20 to 20,000 cps. *Distortion:* harmonic, less than 1%; IM, less than 1½% at full output. *Hum & Noise:* 80 db below rated output. *Output Impedances:* 4, 8 and 16 ohms per channel; tape output, 500 ohms cathode follower. Four EL84 output tubes. *Controls:* Selector (Mic, Tape Head, Phono, FM-AM, Multiplex, Tape Rec); Mode (Stereo Reverse, Stereo Normal); Master Volume; Loudness; Balance; Bass (calibrated for RIAA, LP, AES, NAB); Treble (calibrated for RIAA, LP, AES, NAB); On-Off. *HWD:* 4¾x14¾x12¼". For 105-120 v., 60 cycle AC. Shpg. wt., 27 lbs.
91 SU 634. NET.....189.50

NEW FA-690 STEREO TUNER/PREAMP

NET \$269.50
\$26.95 Down

Deluxe, remarkably versatile stereo component. The FA-690 combines a stereo FM-AM tuner with a dual preamp section containing every conceivable stereo or monaural control facility! *FM Tuner Features.* Low-noise, dual-triode cascode RF amplifier; wide-band FM detector with drift-free oscillator; 3 IF stages; 2 limiters. Sensitivity: 1 µv for 20 db quieting. Interstation noise muting with control for muting defeat; center-of-channel tuning meter insures precise station tuning. FM multiplex output jack for FM-FM stereo broadcast reception (with external demodulator). Built-in, line cord FM antenna.

AM Tuner Features. High-gain pentode RF amplifier; 2 steep-skirted IF stages with front-panel bandwidth control; 10-kc whistle filter. Sensitivity: 2 µv. Separate AM tuning meter. Built-in, ferrite core antenna.

Preamplifier Features. Two identical sections for stereo operation. 8 inputs—4 per channel. Unique phono shut-off switch permits automatic shut-off of system after playing of last record. Controls: Automatic Shutoff/Off-On; FM Muting Off-On; Bass (LP, NAB, RIAA, AES); Treble (LP, NAB, RIAA, AES); Master Volume; Balance; Mode (Stereo Reverse, Stereo Normal, Monaural Channel A, Monaural Channel B); AM Bandwidth (Narrow, Broad) Selector (Mic, Tape Head, Phono, FM-AM, Multiplex, Tape Rec.). 18 tubes; 5 diodes; E281 rectifier. 5x14½x11". For 105-120 v., 60 cycle AC. Shpg. wt., 22 lbs.
91 SU 682. NET.....269.50

NEW SP-210 STEREO PREAMPLIFIER

NET \$89.50
\$8.95 Down

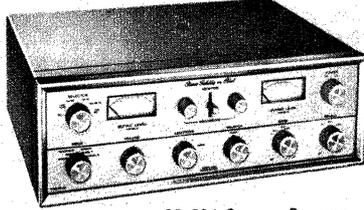
Features two identical preamp sections for the ultimate in convenient stereo control. Matched companion to the Pilot SA-232 and SA-260 stereo basic amplifiers listed below; can also be powered by the Model P-10 power supply, below. Features unique, 3-position power switch with position for automatic shut-off of equipment after last record has played. A Quadri-Volume control, consisting of 4 volume controls on a single knob permits synchronized attenuation of both channels. Extremely well-filtered DC filament supply for all tubes—reduces hum to an absolute minimum. Feedback tone control circuits for low distortion. Has 12 inputs, 6 per channel, for all accessory equipment. Two outputs—audio and tape. Tape recording output is low-impedance to permit use of long cable lengths. Separate bass and treble controls are calibrated for RIAA, LP, NAB and AES phono equalization curves. Also has NAR-TB-equalized tape head inputs.

Response: ±1 db, 20 to 20,000 cps. *Output:* amplifier, 1 volt; tape, 110 millivolts. *Harmonic Distortion:* 0.2% at maximum sensitivity. *Hum & Noise:* 80 db below 1 volt. *Output Impedance:* 500 ohms (cathode follower). 5x14½x10¾". Obtains operating voltages from SA-232 or SA-260 amplifiers, or from Model P10 power supply (listed below). Shpg. wt., 12 lbs.
91 SU 642. NET.....89.50

MODEL P-10 POWER SUPPLY. For above. 4x4x7½". For 105-120 v., 60 cycle AC. 6 lbs.
91 S 641. NET.....19.50



FA-680 Stereo Tuner



SP-216 Stereo Preamplifier



SA-232 Stereo Basic Amplifier

NEW FA-680 STEREO FM-AM TUNER

Deluxe tuner employing the same FM-AM circuitry as the FA-690 above, but less the preamp section. Features separate tuning meters for FM and AM, cathode follower output, built-in FM and AM antennas, etc.

FM Section. Wide-band FM detector, 3 IF stages, 2 limiters. Sensitivity: 1 µv for 20 db of quieting. Interstation noise muting with optional muting defeat; center-of-channel FM tuning meter; built-in line cord FM antenna. *AM Section.* High-gain pentode RF amplifier; 2 IF stages; narrow and broad bandwidth control for maximum AM fidelity; AM tuning meter; 10-kc whistle filter. Sensitivity: 2 µv. *Controls:* FM Tuning; AM Tuning; Automatic Shutoff/On-Off; FM Muting; AM Bandwidth; Selector (Mic, Tape Head, Phono, FM-AM, FM Multiplex, Tape Rec). Highly attractive styling. 14 tubes; 3 diodes; E281 rectifier. 5x14½x10¾". For 105-120 v., 60 cycle AC. Shpg. wt., 20 lbs.
91 SU 681. NET.....199.50

NEW SP-216 STEREO PREAMPLIFIER

Provides complete stereophonic or monaural audio control. Outstanding features include: two illuminated VU meters for indicating tape recording output level, or relative level of signal at audio output jacks to balance both channels of a stereo system. Automatic shut-off position on power switch turns off entire system after last record plays. Dual mike inputs for stereo recording; stereo or monaural operation from all inputs. Individual record level controls, independent of volume or tone controls, permit silent recording. DC on all audio tube heaters for hum-free operation.

Output: 1 volt; 5 v. maximum (can be set to tape recorder requirements by calibrated rear control). *Response:* ±1 db, 20 to 20,000 cps. *Harmonic Distortion:* 0.2% for 1 volt output. *Hum & Noise:* 80 db below 1 v. *Output Impedance:* 500 ohms, cathode follower. 4¾x14¾x10¾". For 105-120 v., 60 cycle AC. Shpg. wt., 17 lbs.
91 SU 635. NET.....189.50

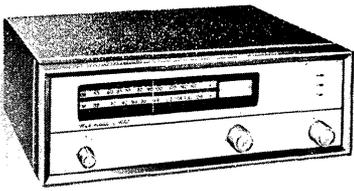
NEW SA-232 STEREO BASIC AMPLIFIER

Employs two basic amplifier sections. *Output:* 16 watts per channel; 32 watts for monaural use. *Frequency Response:* 20 to 20,000 cps. *Distortion:* harmonic, 1%; IM, 1.5%. *Hum:* 90 db below rated output. *Output Impedances:* 8 and 16 ohms per channel. Four EL84 output tubes. Matches Pilot SP-210, SP-216 preamps. 5½x13¼x5". For operation from 105-120 v., 60 cycle AC. Shpg. wt., 20 lbs.
91 SU 638. NET.....89.50

NEW SA-260 STEREO BASIC AMPLIFIER

(Not illustrated)—similar to the SA-232. Matches SP-210 or SP-216 preamps. Individual bias and balance controls *Output:* 30 watts per channel; on stereo; 60 watts total. *Response:* 20 to 20,000 cps. *Distortion:* harmonic, ½%; IM, 1%. *Hum:* 90 db below rated output. *Output Impedances:* 8 and 16 ohms. Four EL34/6CA7 output tubes. 5¾x15¾x7¼". For 105-120 v., 60 cycle AC. Shpg. wt., 35 lbs.
91 SU 639. NET.....129.50

HIGH-FIDELITY COMPONENTS



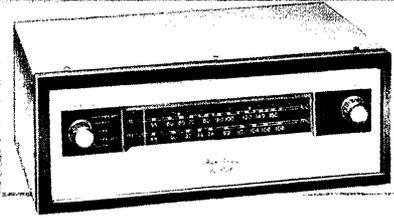
NEW FA-670 BASIC FM-AM TUNER

NET \$179.50
\$17.95 Down

An excellent basic tuner featuring a new, skillfully designed circuit for outstanding reception of FM-AM broadcasts. *FM Section.* Low-noise, cascode RF amplifier; wide-band FM detector (1000 kc), drift-free oscillator; 3 high-gain IF stages and 2 limiters. Interstation muting switch with defeat position—completely eliminates noises when tuning between stations. Center-of-channel tuning meter. FM multiplex output jack; built-in line cord antenna.

Sensitivity: 1 μ v for 20 db of quieting. *AM Section.* High-gain pentode RF amplifier; 2 broadband IF stages; germanium diode detector for maximum detection efficiency and lowest distortion. Temperature-compensated oscillator assures freedom from drift. AM tuning indicator. 10-kc interstation whistle filter. Built-in ferrite core AM antenna. *Sensitivity:* 2 μ v. *Additional Features.* Flywheel tuning for fast, easy station selection. Cathode follower output to permit use of long cable lengths. Illuminated dial scales and tuning meter. Output level control. 10 tubes; 4 diodes (including matched pair of FM detector crystals); EZ81 rectifier. Size, 5x14 $\frac{1}{2}$ x10 $\frac{1}{8}$ ". For 105-120 v., 60 cycle AC. Wt., 20 lbs.
91 SU 636. NET.....179.50

NEW FM-660 BASIC FM TUNER. Not illustrated—similar to the FA-670 above. Has same FM circuitry, features and specifications of the FA-670. 8 tubes; 3 diodes; EZ81 rectifier. Size, 5x14 $\frac{1}{2}$ x10 $\frac{1}{8}$ ". For 105-120 v., 60 cycle AC. Shpg. wt., 18 lbs.
91 SU 637. \$14.95 Down. NET...149.50



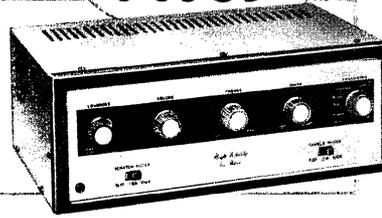
FA-540 BASIC FM-AM TUNER

NET \$109.50
\$10.95 Down

A compact basic FM-AM tuner featuring distinctive appearance and quality performance. An ideal companion unit for the AA-920 (at right) or any other hi-fi amplifier having volume and tone controls. Unit is housed in a beautifully styled metal case in burgundy and brushed brass.

Hum Level: 70 db below 1.0 volt. *Maximum Audio Output:* 5 volts. *Output Impedance:* 500 ohms (cathode follower). *Controls:* Selector (Off-On, Aux, AM, FM with AFC, FM without AFC); Tuning. *FM Features:* Automatic frequency control (AFC) for simple, drift-free tuning, with disabling switch for tuning weak stations adjacent to strong stations; temperature-compensated oscillator for maximum stability of tuning; tuned RF amplifier stage for excellent sensitivity and selectivity; built-in line cord antenna. *FM Sensitivity:* 3.0 microvolts for 20 db of quieting. *AM Features:* Tuned RF amplifier stage; 10-kc whistle filter; efficient, built-in ceramic powdered-iron antenna; *AM Sensitivity:* 3 microvolts.

A cathode follower output permits installation of the FA-540 up to 100 feet from the amplifier without deterioration of signal quality. Flywheel tuning for smooth, precise station selection, plus "Beacon" tuning eye provide pin-point accuracy. Illuminated slide-rule dial. A switched input is provided for crystal or ceramic phono or TV sound. 7 tubes, plus EM81 tuning eye and 6X4 rectifier. Size, 4 $\frac{3}{4}$ x13x8 $\frac{3}{4}$ ". For 105-120 volts, 60 cycle AC. Wt., 14 lbs.
94 SU 369. NET.....109.50

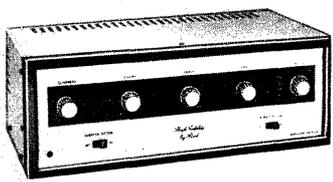


AA-920 20-WATT AMPLIFIER

NET \$99.50
\$9.95 Down

High-performance 20-watt amplifier with exceptionally high gain, stability, and freedom from distortion. A built-in preamplifier provides complete control flexibility, including equalization for playback of recorded tapes directly from the tape head. An excellent choice for use with the FA-540 tuner at left or any high-quality basic tuner. The output transformer of the AA-920 employs interleaved windings, to minimize leakage inductance and resultant loss of high-frequency response. Tube filaments in the preamplifier section are operated on direct current to assure extremely low hum level. In addition to tape head equalization, an output jack is provided to feed a tape recorder; a full array of inputs accommodates any possible signal source. Burgundy and brushed brass cabinet.

Power Output: Rated, 20 watts; 40 watts peak. *Response:* \pm 1 db from 20 to 20,000 cps. *Hum and Noise Level:* 80 db below full output. *Distortion:* Less than 1% harmonic at 20 watts; 1.5% IM at 20 watts. *Speaker Output Impedances:* 4, 8 and 16 ohms. *Inputs:* Radio, Aux, Tape Amp—470,000 ohms; Magnetic Phono, adjustable from 6800 to 100,000 ohms. Tape Head, 100,000 ohms. 6L6GB output tubes. *Controls:* On-Off/Volume; Loudness (Aural Compensation); Selector (LP, AES, RIAA, NARTB, Tape Head, Radio, Aux, Tape Amp); Treble; Bass; 3-position Scratch Filter; 3-position Rumble Filter. 4 $\frac{3}{4}$ " high, 13 $\frac{1}{4}$ " wide, 9" deep. For 105-120 volts, 60 cycle AC. Shpg. wt., 22 lbs.
94 SU 371. NET.....99.50

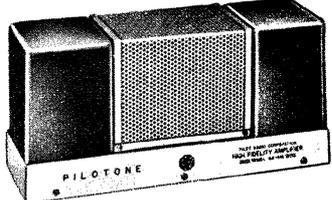


AA-903B

AA-903B 16-WATT AMPLIFIER

A deluxe 16-watt amplifier featuring a full set of controls. Advanced circuit features low distortion, unusually low hum and noise, and exceptional stability. Has equalization for all types of recordings, plus an equalized tape head input permitting playback directly from a tape deck.

Rated Output: 16 watts. *Frequency Response:* \pm 1 db, 20-20,000 cps. *Harmonic Distortion:* Less than 1% at 16 watts. *I.M.:* 1.5% at 16 watts. *Hum:* 80 db below full output. *Inputs:* Radio, Aux, Tape Head, Tape Amp, Phono. *Output Imp.:* 4, 8, 16 ohms. *Controls:* Loudness; Volume; Treble; Bass; Function-Equalization Selector (Radio, Aux, Tape Amp, Tape Head, LP, RIAA, AES, NARTB); Scratch Filter; Rumble Filter. Tape output jack, independent of volume, loudness and tone controls, on rear panel. Variable input loading for various magnetic phono cartridges assures maximum fidelity with any cartridge. EL84 output tubes. 4 $\frac{3}{4}$ x13 $\frac{1}{4}$ x9". For 105-120 v., 60 cycle AC. Shpg. wt., 17 lbs.
98 SU 584. \$8.00 Down. NET.....79.95

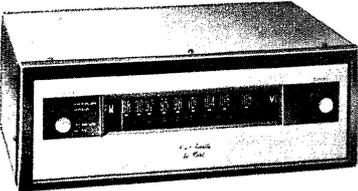


AA-410A

AA-410A BASIC AMPLIFIER

The AA-410A is an excellent example of skillful high-fidelity engineering. A perfect companion unit for any high-quality tuner or preamp-equalizer with a full set of controls. Ideal for use in pairs in stereophonic systems. Truly a remarkable value, this fine unit features an up-to-the-minute 20-watt circuit and a deluxe output transformer with interleaved windings.

Rated Output: 20 watts. *Frequency Response:* \pm 0.1 db, from 20 to 20,000 cps at rated output. *Harmonic Distortion:* Less than 1% at full rated output of 20 watts. *Intermodulation Distortion:* Less than 1.5% at rated output (60 and 3000 cps, 4:1). *Hum and Noise Level:* 90 db below rated output. *Negative Feedback:* 14 db. *Speaker Output Impedances:* 4, 8 and 16 ohms. 6L6GB output tubes. Transformers are sealed and finished in black enamel 5 $\frac{3}{4}$ " high, 4" deep, 14 $\frac{1}{4}$ " wide. Chassis has removable feet. For operation from 105-120 volts, 60 cycle AC. Shpg. wt., 19 lbs.
94 SU 367. \$5.95 Down. NET.....59.50



FM-530-A

FM-530A BASIC FM TUNER

An FM tuner of high quality, specially designed for use with an amplifier having a full set of controls. Many features of the FM-530A are usually found only in much more expensive tuners. Scale calibrations are large and clear; "Beacon" tuning eye, in conjunction with AFC, makes tuning as simple and stable as the electronic art permits. Noise level, hum and distortion are well below the threshold of audibility.

Sensitivity: 3.0 microvolts for 20 db of quieting; tuned RF stage. *Hum Level:* 70 db below 1.0 volt. *Maximum Audio Output:* 5 volts. *Distortion:* Less than 0.2% at 1 volt output. *Output Impedance:* 500 ohms (cathode follower). *Selectivity:* 6 db down at 200 kc. *Controls:* Selector (Off-On, Aux, FM-AFC, FM without AFC); Tuning. 7 tubes, plus EM81 tuning eye and 6X4 rectifier. Panel is finished in brushed brass and deep burgundy. Size, 4 $\frac{3}{4}$ x13x8 $\frac{3}{4}$ ". For operation from 105-120 v., 60 cycle AC. Shpg. wt., 14 lbs.
94 SU 368. \$8.95 Down. NET.....89.50

Write For Allied's System Plan Price on Hi-Fi System Components of Your Choice

**NEW BELL
STEREO AMPLIFIER**



TOP-QUALITY



Model 3030



Model 2325

MODEL 3030 30-WATT STEREO AMPLIFIER

NET
\$166⁵⁵
\$16.66 Down

- Versatile Hi-fi Control Center
- Ideal for Stereo or Monaural
- NARTB-Equalized Tape Head Input
- Attractive Low-Silhouette Styling

Beautifully styled, versatile 30-watt hi-fi amplifier that becomes two 15-watt amplifiers for stereo at the flick of a switch. Complete with two fully integrated preamps—all on one compact chassis. Accommodates all program sources, stereo or monaural. Combines smart, low-silhouette styling with excellent performance. "Magic touch" control combines on-off switch with loudness control. With the push-pull switch pre-set to the loudness position you prefer, simply push knob to shut off, or pull to start your system playing—no need to readjust volume each time you turn on amplifier.

Phono inputs are equalized to RIAA curve on both channels for stereo records; has three equalization positions on the left channel for regular monaural discs. Tape input is equalized to NARTB curve for playback direct from tape head. Saddle-tan finish.

Power Output: 15 watts each channel; 30 watts total. **Frequency Response:** ± 0.5 db, 20-20,000 cps. **Distortion:** harmonic, less than 0.5%. **Hum:** 79 db below 15 watts. **Dual Inputs (5):** Tape Head, Magnetic and Ceramic Phono, Tuner, Auxiliary. **Controls:** 6-position selector switch—Tape, EUR, RIAA, LP, Tuner, Auxiliary; Noise Filter—Off, Hi, Lo. Both; Balance Control combined with Monaural switch; Off-On/Loudness control switch; Level Control with Stereo Reverse; Bass +15 db—20 db at 50 cps; Treble (+12 db—16 db at 10,000 cps); Rear Chassis—Tuner Set Level, Output Parallel Switch, Hum Balance Control. **Dual Outputs (4):** 4, 8, 16 ohms and high impedance for recording. **Tubes (11):** 4—6V6GT, 6—ECC83/12AX7, 1—EZ81/6CA4. $4\frac{1}{2} \times 16 \times 11"$ For 110-120 v., 60 cycle AC. Shpg. wt., 22 lbs.
91 SU 656. NET..... 166.55

MODEL 2325 20-WATT HI-FI AMPLIFIER

NET
\$107⁷⁵
\$10.78 Down

- Single-Dial "Magic Touch" Control
- 3-Position Speaker Selector Switch
- Latest Low-Silhouette Styling
- Rumble and Scratch Filter Switches

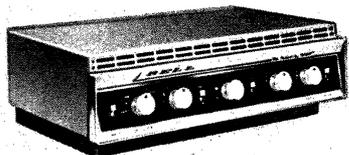
Exceptionally well designed 20-watt amplifier with controls. Its unusual reserve power-handling capacity and highly flexible controls make it an excellent choice for use with other custom components. Includes the ultra-convenient "Magic Touch" control. After setting the loudness control to the desired volume, all you need do is pull the knob to start the music playing, and push it to stop—no need to adjust the volume when using the system at another time!

Additional features include: 3-position speaker selector switch which allows you to play either speaker, or both together, in hi-fi ensembles using two speaker systems; separate rumble and scratch filter switches. Space-sparing design permits installation anywhere. Low-silhouette enclosure is attractively finished in saddle tan.

Power Output: 20 watts; handles 40-watt peaks. **Frequency Response:** ± 0.3 db, 20 to 20,000 cps. **Distortion:** Harmonic, less than 0.3%; IM, less than 0.5%. **Hum:** 75 db below 20 watts. **Inputs:** 2—low-level Magnetic or Tape Head, Crystal or Ceramic Phono, high-level Magnetic, Radio Tuner, TV, Auxiliary. **Controls:** "Magic Touch" Off-On/Loudness; Rumble Filter; Scratch Filter; 3-pos. Speaker Selector; Bass; Treble; Level; 8-pos. Selector-Equalizer (Tape, 78, RIAA, LP, EUR, Radio Tuner, TV, Aux); Phono/Tape input selector (low-level Mag, Tape or Ceramic/Crystal; low-level Mag, high-level Mag, or Tape). Tuner input has Level control. Hum balance adjustment. **Output Impedances:** 4, 8 and 16 ohms; high-impedance for tape recording. 2 separate outputs for speakers to be switched. **Tubes:** 3—ECC83, 12AV6, 2—6L6GB; 5U4GB rectifier. Size, $4\frac{3}{8} \times 16 \times 11"$. For 110-120 v., 60 cycle AC. Shpg. wt., 24 lbs.
94 SU 737. NET..... 107.75

NET

\$156⁷⁵
\$15.68 Down



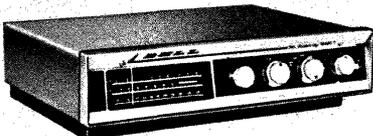
Model 2360

MODEL 2360 50-WATT HI-FI AMPLIFIER

Versatile 50-watt hi-fi amplifier with controls. Meets the most exacting requirements of the audio perfectionist. Has all the deluxe features of the Model 2325 described above, plus extremely high power-handling capacity (handles 100-watt peaks!). Low-silhouette styling; saddle-tan finish. **Power Output:** 50 watts. **Frequency Response:** ± 0.5 db, 20 to 20,000 cps. **Distortion:** Harmonic, less than 0.5%; IM, less than 1%. **Hum:** 75 db below rated output. **Inputs:** 2—low-level Magnetic or Tape Head, Crystal or Ceramic Phono, high-level Magnetic, Radio Tuner, TV, Auxiliary. **Controls:** "Magic Touch" Off-On/Loudness; Rumble Filter; Scratch Filter; 3-pos. Speaker Selector switch; Bass; Treble; Level; Selector-Equalizer (Tape, 78, RIAA, LP, EUR, Radio, TV, Aux). Phono/Tape input selector, etc. **Output Impedances:** 8 and 16 ohms; high-impedance for tape recording. **Tubes:** 2—ECC83, 12AV6, 6AN8, 2—6CA7; GZ34 rectifier. Size, $5\frac{1}{8} \times 16 \times 11"$. For 110-120 v., 60 cycle AC. Shpg. wt., 35 lbs.
94 SU 738. NET..... 156.75

NET

\$146⁹⁵
\$14.70 Down



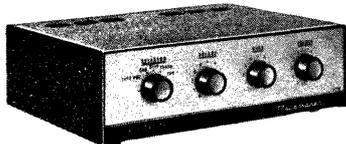
Model 2521

NEW MODEL 2521 TUNER-AMPLIFIER

A sensitive FM-AM tuner, flexible preamplifier, and a 15-watt amplifier on a single chassis. Combines smart, low-silhouette design with excellent performance. Features: Armstrong FM circuit; Foster-Seeley discriminator; AFC on FM; built-in line cord antenna for FM; built-in ferrite antenna for AM; speaker selector switch and rumble filter on rear chassis; shielded construction and grounded grid RF stage; multiplex outlet for "all-FM" stereo broadcasts; electronic tuning bar, etc. **Sensitivity:** FM, 3.5 μ v for 20 db quieting; AM, 20 μ v. **Output:** 15 watts at less than 1% distortion. **Response:** ± 0.5 db, 20-20,000 cps. **Inputs:** Tape Head, Magnetic Phono, Crystal or Ceramic Phono, Aux. **Outputs:** 4, 8, 16 ohms and Hi-Z for recording. **Controls:** Bass and Treble, Off-On/Volume, Selector (FM, FM-AFC, AM, Tape, EUR, RIAA, Aux., Tuner), Loudness Compensation Switch. 12 tubes and rectifier. Saddle tan finish. $4\frac{3}{8} \times 16 \times 12\frac{1}{8}"$. For 110-120 v., 60 cycle AC. Shpg. wt., 21 lbs.
91 SU 672. NET..... 146.95

NET

\$53⁹⁰
\$5.39 Down



Model 2215

NEW MODEL 2215 "PACEMAKER" 10-WATT AMPLIFIER

Here's a beautifully styled 10-watt amplifier with controls that really sets the pace for high performance at low cost. Includes: built-in pre-amp with phono equalized to RIAA curve; separate bass and treble tone controls; 10 watts of full-range, low-distortion power. **Output:** 10 watts; handles 20-watt peaks. **Response:** ± 1 db, 20-20,000 cps. **Distortion:** 2% at 10 watts. **Hum:** -65 db. **Inputs:** Magnetic and Ceramic Phono, Tape Head, Tuner, Aux. **Controls:** Selector (Tape, EUR, RIAA, Tuner, Aux.); Volume; Bass; Off-On/Treble. **Output Impedances:** 4, 8, and 16 ohms; high-impedance for tape recording. **Tubes:** 2—6V6GT, 6CQ8, ECC83; 6X5GT rectifier. Handsome saddle-tan finish. $3\frac{3}{8} \times 11\frac{1}{2} \times 9"$. For 110-120 volts, 60 cycle AC. Shpg. wt., 10 lbs.
91 SX 671. NET..... 53.90

HIGH-FIDELITY MUSIC COMPONENTS



Model 2315

MODEL 2315 12-WATT HI-FI AMPLIFIER

NET

\$68.55

\$6.86 Down

- Compact in Size—Fits Anywhere
- Convenient "Magic Touch" Control
- 3 Positions of Record Equalization
- Offers Clean, Wide-Range Response

Ultra-compact 12-watt amplifier with controls. Perfect for the moderately priced home music system. "Magic Touch" switch combined with loudness controls gives unexcelled convenience. Permits turning amplifier on or off without disturbing loudness setting.

Only 4" high, the Model 2315 can be placed on a table, shelf, mantel, bookcase, etc. A continuous strip of light along the control panel functions as a pilot light and illuminates controls in the dark. Handsomely styled in rich, saddle-tan finish, the 2315 blends gracefully with any interior decorative scheme. Other features include: built-in preamplifier with three positions of record equalization and equalized tape head input; inputs for all associated hi-fi equipment—simply plug in your record player, tape recorder or tuner and connect to speaker system; provides complete control versatility.

Power Output: 12 watts; handles 20-watt peaks. **Frequency Response:** ±0.5 db, 20 to 20,000 cps. **Distortion:** Harmonic, less than 0.5%; IM, less than 3%. **Hum:** 75 db below 12 watts. **6 Inputs:** 2—low-level Magnetic or Tape Head, Crystal or Ceramic Phono, high-level Magnetic, Radio Tuner, Auxiliary. **Controls:** "Magic Touch" Off-On/Loudness; Bass; Treble; Level; Selector-Equalizer (Tape, RIAA, 78, EUR, Radio, Aux); Phono/Tape input selector (Low-level Mag, Tape and Ceramic/Crystal; low-level Mag, Tape or high-level Mag). Rumble filter switch. Hum balance adjustment. **Output Impedances:** 4, 8, 16 ohms and recording. **Tubes:** 2—6V6GT, 3—ECC83/12AX7, 5Y3GT rectifier. Two convenience AC outlets. Size, 4x13½x9". For 110-120 volts, 60 cycle AC. Shpg. wt., 15 lbs.

94 SX 736. NET..... 68.55



Model 2520

NEW MODEL 2520 HI-FI FM-AM BASIC TUNER

NET

\$93.10

\$9.31 Down

- AFC "Locks-In" FM Stations
- Convenient "Floating Touch" Tuning
- Armstrong Circuit with Dual Limiters
- Space-Saving Low-Silhouette Design

Excellent features, superb styling, and true high-fidelity FM reception, plus full-range AM broadcast listening are yours with this well-designed tuner. Superior FM sensitivity is provided through the use of Armstrong circuit with dual limiters and a Foster-Seeley discriminator. "Floating Touch" tuning control makes selection of the desired station remarkably easy. Dual output jacks are provided for feeding a tape recorder or other device simultaneously while listening to the tuner. Automatic frequency control circuit assures drift-free reception and also contributes to ease of tuning. The tuner automatically locks to the station and stays there.

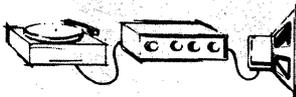
A switch is provided for turning the AFC off for tuning a weak signal adjacent to a strong one. A convenient 0-100 logging scale is provided to help you make an accurate log of stations on either the FM or AM band. Retuning to your favorite stations is made easy when you keep a record of their exact location as indicated on the logging scale. Handsomely styled in rich, saddle-tan finish, the 2520 blends gracefully with any interior decorative mode. Ideal choice for a moderately priced high-fidelity music system.

Sensitivity: FM, 3.5 microvolts for 20 db quieting; AM, 20 microvolts for 20 db signal-to-noise ratio. **Selectivity:** FM, 6 db down at 200 kc; AM, 6 db at 11.7 kc. **Frequency Response:** FM, 20-20,000 cps ±1 db; AM, 20-5000 cps 3 db. **Power Output:** 2 volts at 30% modulation. **Controls:** Selector (Off, AM, FM with AFC, FM without AFC), Tuning. 7 tubes plus rectifier. Size, 4½x13x10½". With antennas for AM and FM. For 110-120 v., 60 cycle AC. 14 lbs.

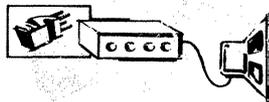
94 SU 735. NET..... 93.10

Some Facts About STEREO...

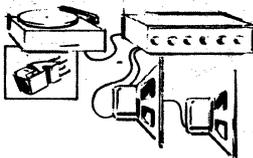
It's easy to choose the equipment you need for your hi-fi system. There are three kinds of systems that can be made up from components in this catalog: a monaural, or standard system, easily convertible to stereo; an "add-on" package to convert your present high-fidelity system to stereo; and a complete stereo system.



HI-FI MONAURAL PHONO SYSTEM. The standard, or conventional, high-fidelity system consists of a record changer with cartridge (or turntable-arm-cartridge combination), amplifier with controls and speaker system. Choose a stereo cartridge for the changer—it will play regular LP records perfectly, and save time and expense when you decide to convert to stereophonic reproduction.



HI-FI STEREO "ADD-ON" SYSTEM. An "add-on" package converts your present high-fidelity system from monaural to stereophonic reproduction. The package includes a stereo cartridge, a second amplifier and a second speaker system. Installation of any new stereo cartridge in your present record changer or turntable arm requires a small amount of rewiring in the pickup arm—simple instructions for making this change are supplied.



COMPLETE HI-FI STEREO SYSTEM. A complete stereo system has a record changer with stereo cartridge, a stereo amplifier and two speaker systems. Professional-type installations often use a separate stereo preamplifier with two basic amplifiers, as well as a turntable-arm-cartridge combination. Stereo tape decks and stereo tuners are additional sources for breathtaking stereo sound.

Write to Allied for Our System Plan Price on High-Fidelity Components of Your Own Selection.



X-101 Stereo Amplifier

Superb NEW Stereophonic Components

NEW X-101 STEREO AMPLIFIER
NET \$189.50
\$18.95 Down

Masterfully designed, dual 20-watt stereo amplifier and preamp-equalizer. Offers controls and inputs for any stereo or monaural sound source. Stereo channels can be used in parallel or individually for monaural operation. Recording jacks are provided on both channels, for stereo or monaural recording, without interrupting normal listening. Record-monitor jack on one channel. *Output:* 20 watts per channel; 40-watt peaks. *Response:* 20-20,000 cps. *Distortion:* harmonic, 0.7% at rated output; IM, 2% at rated output. *Hum*—80 db.

12 Inputs (2 each): LP-78-RIAA 1; RIAA 2; Tape; Tuner; Aux 1; Aux 2. *Output Impedances:* 4, 8 and 16 ohms each channel. *Controls:* Selector (LP, 78, RIAA 1, RIAA 2, Tape, Tuner, Aux 1, Aux 2); Output Selector (Stereo Reverse, Stereo, Channel A plus B, Channel B plus A); On-Off/Master Volume; Channel Balance; Rumble Filter; Loudness Control; Bass; Treble; 4 Input Level adjustments. Four EL84/6BQ5 output tubes. Less cabinet, below. $4\frac{1}{8} \times 13\frac{1}{2} \times 13\frac{1}{2}$ ". For operation from 105-125 v., 50-60 cycle AC. Shpg. wt. 30 lbs.
 91 SU 684. NET.....189.50

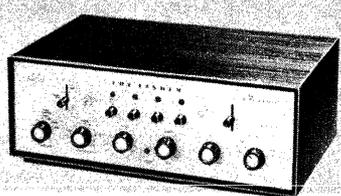


101-R Stereo FM-AM Tuner

NEW 101-R STEREO FM-AM TUNER
NET \$229.50
\$22.95 Down

New stereo FM-AM tuner of superior quality and design, and remarkable versatility. Independent FM and AM channels permit either stereo or monaural operation. *FM Section:* Gold-cascade high-gain, low noise RF stage, four IF stages, two limiter stages, automatic gain control, and automatic interstation noise-muting. Offers maximum sensitivity and stability. Separate "Micro-Ray" tuning indicator; "tune" and "listen" switch positions. *Sensitivity:* 1.6 μ v for 20 db of quieting. Low-impedance audio output stage.

AM Section: Tuned RF stage, temperature-compensated converter stage, two IF stages, delayed automatic gain control circuit; 10-ke sharp cut-off filter. Separate "Micro-Ray" tuning indicator. *Sensitivity:* $3\frac{1}{2}$ μ v for $\frac{1}{2}$ -v. output. *Front Panel Controls:* FM Selector (FM-Off, Tune, Listen); FM Tuning; AM Selector (On-Off, AM-Off, Broad, Sharp); AM Tuning. 7 output jacks. 14 tubes, 2 germanium diodes; EZ81/6CA4 rectifier. Less cabinet, below. $4\frac{1}{8} \times 15\frac{1}{2} \times 13\frac{1}{2}$ ". For operation from 105-125 v., 50-60 cycle AC. Shpg. wt., 20 lbs.
 91 SU 683. NET.....229.50



NEW 400-C STEREO PREAMPLIFIER

NET \$169.50
\$16.95 Down

Superbly designed, the 400-C Stereophonic Master Audio Control offers virtually unlimited flexibility. Provides 16 input jacks on rear apron for any combination of stereo and monaural applications. Four output jacks, and a total of 9 controls, give you unsurpassed versatility. Provides correct equalization for all stereo and monaural tape and disc recordings.

16 Inputs (8 pairs): Eur-LP-RIAA 1; RIAA 2; Tape; Mic; Monitor; Tuner; Aux 1; Aux 2. *4 Outputs (2 pairs):* Main (for 2 amplifier-speaker systems in stereo, monaural or crossover operation); and Recorder (for stereo or monaural recording). *9 Controls:* Input Selector (with jeweled indicator lamps); Equalization Selector (Eur LP, RIAA 1, RIAA 2, Tape, Mic); Output Selector (Stereo Reverse, Stereo, Channel A plus B, Channel A only, Channel B, Crossover); Master Volume/On-Off; Channel Balance; Loudness Contour; Rumble Filter; Bass; Treble; and four Input Level adjustments. *Response:* flat from 20 to 25,000 cps. *Distortion:* less than 0.15% for 2-v. output; less than 0.3% for 5-v. output. *Hum & Noise:* absolutely inaudible—better than 85 db for high-level inputs. 6 tubes: EZ80/6V4 rectifier, plus selenium rectifier. Less cabinet, below. $4\frac{1}{8} \times 15\frac{1}{2} \times 9\frac{1}{2}$ ". For operation from 105-125 v., 50-60 cycle AC. Shpg. wt., 10 lbs.
 91 SU 625. NET.....169.50

NEW 30-C MONAURAL PREAMPLIFIER-EQUALIZER

Carefully designed preamp-equalizer featuring Fisher's traditionally excellent performance and styling. Provides complete control facilities for monaural hi-fi systems—two 30-C preamps can be used as master stereo control in stereo music systems. Low-impedance audio output stage permits use of cable lengths up to 30 ft. *Response:* uniform from 20 to 20,000 cps. *Distortion:* 0.22% for 2-v. output; 0.3% for 3-v. output. *Hum & Noise:* 72 db down for high-level tuner and auxiliary inputs; 60 db down for low-level inputs. *Gain:* 53 db for magnetic phono; 56 db for tape playback head; 54 db for mike; 19 db for high-level tuner and auxiliary inputs. *Inputs:* RIAA-equalized Phono; NARTB-equalized Tape Head; Mic; Tuner; Aux 1 for high-level source; Aux 2 for Ceramic Phono. *2 Outputs:* Amplifier; Tape Recorder (also has provision for tape monitoring). *Controls:* Selector (RIAA, Tape, Mic Tuner, Aux 1, Aux 2); Volume; Rumble Filter/Loudness contour; Bass; Treble/On-Off. Two input level adjustments; hum balance control. *Tubes:* EF86/6267, 7025, ECC81/12AT7; selenium rectifier. Less cabinet, below. $2\frac{5}{8} \times 12\frac{1}{4} \times 8\frac{1}{2}$ ". For 105-125 v., 50-60 cycle AC. Shpg. wt., 8 lbs.
 91 SX 685. NET.....59.50

NEW PR-66 STEREO PREAMPLIFIER

Low-cost, dual-channel preamp with RIAA-equalization for low-level stereo phono cartridges. No controls; for remote installation. Includes equalization for two stereo tape heads or microphones. Compact size permits mounting in virtually any manner. Has 2 phono input jacks; 2 output jacks. Low-impedance output. With mtg. hardware and output cables. HWD. $5\frac{1}{2} \times 8\frac{1}{2} \times 1\frac{1}{8}$ ". For 105-125 v., 50-60 cycle AC. 4 lbs.
 91 S 686. NET.....29.95

PR-6 LOW-COST PREAMPLIFIER

A self-powered unit of excellent quality and moderate cost. RIAA-equalized for phono; NARTB-equalized for tape head playback. Accommodates any low-level magnetic cartridge, basic tape player mechanism or microphone. Circuit employs two high-gain triode stages. Exclusive feedback design permits the use of long output leads. Size. $3\frac{5}{8} \times 3\frac{3}{4} \times 3\frac{5}{8}$ ". For 105-125 v., 50-60 cycle AC. Shpg. wt., $1\frac{1}{2}$ lbs.
 98 S 528. NET.....12.95

WOOD CABINETS FOR FISHER COMPONENTS

Hand-crafted, hand-rubbed hardwood cabinets for Fisher instruments. Designed to grace any room interior. Beautifully styled in the classic tradition, these fine furniture cabinets are the product of the same skilled workmanship that goes into the music reproducing instruments listed on both of these pages. Perfectly complement the distinctive, brushed brass panels of Fisher's high-fidelity components. Available in three finishes to cover most traditional or modern decors—mahogany, blonde and walnut. Specify choice of finish.

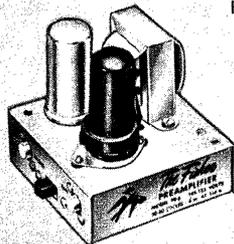
Stock No.	Model	For	Size	Wt.	NET
91 SX 687C	TA5	TA-500 Tuner-Amplifier	$9\frac{1}{8} \times 14\frac{1}{2} \times 13\frac{1}{2}$ "	5 lbs.	22.95
91 SX 688C	RT9	90-R and 90-T Tuners	$16\frac{1}{2} \times 11\frac{1}{2} \times 1\frac{1}{2}$ "	8 lbs.	22.95
91 SX 689C	FM9	FM-90X Tuner	$9\frac{1}{8} \times 14\frac{1}{2} \times 10\frac{1}{2}$ "	4 $\frac{1}{2}$ lbs.	19.95
91 SX 690C	4C	400-C Stereo Preamplifier	$15\frac{1}{2} \times 9\frac{1}{2} \times 7\frac{1}{8}$ "	7 lbs.	17.95
91 SX 691C	10R	101-R Stereo Tuner	$15\frac{1}{2} \times 12\frac{1}{2} \times 6\frac{1}{2}$ "	8 lbs.	22.50
91 SX 692C	10X	X-101 Stereo Amplifier	$13\frac{1}{2} \times 12\frac{1}{2} \times 6\frac{1}{2}$ "	8 lbs.	24.95
91 SX 693C	3C	30-C Monaural Preamplifier	$12\frac{1}{2} \times 16\frac{1}{2} \times 17\frac{1}{8} \times 3\frac{1}{4}$ "	4 lbs.	12.95



30-C Preamp



PR-66 Stereo Preamp



PR-6 Preamp

DELUXE HIGH-FIDELITY COMPONENTS

FISHER



TA-500 FM-AM TUNER-AMPLIFIER

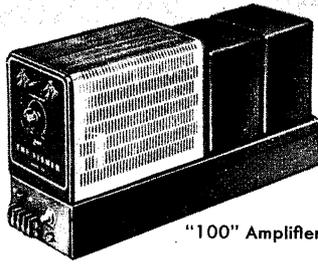
NET
\$249.50

\$24.95 Down

A modern classic in design and elegant styling. Combines a highly sensitive FM-AM tuner, powerful 30-watt amplifier, and master audio control — on one compact chassis! **FM Section:** Dual triode, cascade circuit with tuned RF stage and 3 IF stages followed by a wide-band detector for maximum capture ratio. Highly sensitive; operates on signals as low as 1 microvolt. **AM Section:** Tuned RF stage; diode detector circuit for minimum distortion. Sensitivity is better than 3 microvolts for full output. Professional meter for micro-accurate tuning on FM and AM.

Audio Section: 4 high-impedance inputs; low-impedance tape recorder output; phono and tape head preamp-equalizer. Response is ± 1 db, 16 to 32,000 cps. Harmonic distortion is less than 0.5% at 30 watts; IM, less than 1%. Hum and Noise, — 80 db. **Controls:** Tuning; Off-On; Volume-Loudness; Bass; Treble; Selector-Equalizer (AM, FM, AES, RIAA, LP, NAB, Tape, Aux 1, Aux 2). **Output Impedances:** 4, 8 and 16 ohms. 12 tubes; 2 rectifiers; 2 crystal diodes. $6\frac{3}{4} \times 13\frac{3}{8} \times 13\frac{3}{8}$ ". Less cabinet; see page 50. For operation from 105-125 v., 50-60 cycle AC. Shpg. wt., 26 lbs.

98 SU 506. NET..... 249.50



"100" Amplifier

NEW "100" 30-WATT BASIC AMPLIFIER

NET
\$119.50

\$11.95 Down

One of the finest basic amplifiers available in this price range. The "100" is a unit of such conservative construction and superior design, that it will provide years of clean, trouble-free performance and absolute reliability. Delivers 30 watts of power, with 70-watt peak-power handling capacity to accommodate surges in volume and transients without any trace of clipping, ringing or raggedness. Can reproduce the entire dynamic range of an orchestra with effortless ease. Remarkably pure tonal output.

Output: 30 watts; 70-watt peaks. **Response:** $\pm \frac{1}{2}$ db, 20 to 20,000 cps at 30 watts. **Distortion (at 30 watts):** harmonic and IM, less than 1%. **Hum & Noise:** better than 88 db below 30 watts. **Output Impedances:** 4, 8 and 16 ohms. **Controls:** Z-Matic Variable Damping (for precise matching to any speaker system); Input Level adjustment; Phase Inverter Balance adjustment; and Speaker Impedance Matching switch. **Tubes:** ECC81/12AT7, ECC82/12AU7, 2—EL37; 5V4G rectifier. $7 \times 15\frac{1}{2} \times 1\frac{1}{2}$ ". For 105-125 v., 50-60 cycle AC. Wt., 23 lbs.

92 SU 415. NET..... 119.50



90-T FM-AM Tuner

90-T FM-AM TUNER

NET
\$239.50

\$23.95 Down

Superb, laboratory-quality FM-AM tuner for the finest hi-fi systems. Features "Micro-Ray" indicator for FM-AM tuning, muting for interstation silence on FM, AM selectivity control, presence control for emphasizing solo passages, and 4 inputs including tape playback head.

FM Section: Gold cascode RF amplifier stage for maximum sensitivity (0.85 μ v for 20 db of quieting). Entire front end features silver-plated shielding against noise and interference. Dual dynamic limiters; wide-band ratio detector for distortion-free reception of weak stations. Pushbutton muting of interstation noise. **AM Section:** Sensitivity better than 3 μ v for rated output. Separate AM front end; two IF amplifier stages with pushbutton-selected bandwidth; 10-kc whistle filter. **Audio Controls:** 8-pos. Selector; Presence; Rumble Filter; Noise Filter; Bass; Treble/On-Off; Master Volume; 4-position Loudness Contour; FM-AM Tuning; 15 tubes; 6 crystal diodes; and rectifier. Less cabinet; see page 50. $7 \times 15\frac{1}{2} \times 10\frac{1}{4}$ ". For operation from 105-125 v., 50-60 cycle AC. 23 lbs.

94 SU 340. NET..... 239.50

FM-90X "GOLD CASCODE" BASIC FM TUNER

Precisely designed for the most exacting FM listener, the FM-90X is easily one of the finest FM tuners available. Employs a unique gold-cascode RF amplifier tube and highly specialized circuitry to reach the theoretical limits of sensitivity— $\frac{1}{2}$ microvolt! Two tuning meters assure extremely accurate tuning even by an unskilled user—and the exceptional stability of its circuitry eliminates any retuning resulting from warm-up drift. Outstanding features: Exclusive gold-cascode RF amplifier; silver-shielded front end with dual-triode, cascode-tuned RF stage; 4 IF stages; full, wide-band detector for maximum capture ratio; balanced antenna inputs for maximum signal transfer; variable interstation noise suppressor; etc. **Sensitivity:** Full limiting on signals as low as $\frac{1}{2}$ μ v; $\frac{3}{4}$ μ v for 20 db of quieting; $1\frac{1}{4}$ μ v for 30 db. **3 Outputs:** Main, Recorder, Multiplex. **2 Controls:** Variable Interstation Muting/Off-On; Station Selector. **2 Meters:** Signal-strength, for orienting antenna; Tuning for center-of-channel. Includes FM folded dipole antenna. 8 tubes; 4 germanium diodes; 6X4 rectifier. Size, $6\frac{1}{2} \times 13\frac{1}{2} \times 8\frac{3}{4}$ ". Less cabinet; see page 50. For operation from 105-125 v., 50-60 cycle AC. Shpg. wt., 15 lbs.

99 SU 186. NET..... 169.50

90-R FM-AM BASIC TUNER

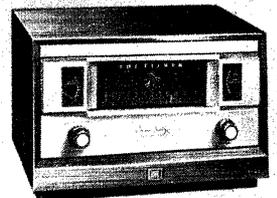
A triumph of engineering excellence, the 90-R offers the critical listener the ultimate in FM-AM reception. Among the many design highlights that contribute to its dazzling performance are: "Micro-Ray" tuning indicator for pin-point FM-AM tuning accuracy; pushbutton interstation muting on FM; pushbutton-controlled selectivity on AM; low-impedance output to permit use up to 100 ft. away from amplifier without impairing signal; etc. **FM Section:** Gold cascode RF amplifier stage; silver-plated front end; dual dynamic limiters; wide-band ratio detector. Sensitivity, 0.85 μ v for 20 db of quieting. **AM Section:** Sensitivity better than 3 μ v for rated output; switch-selected choice of built-in ferrite loop antenna or external antenna; two IF amplifier stages with 3-position pushbutton selected bandwidth; 10-kc whistle filter; special antenna input circuit for maximum signal-to-noise ratio. **Controls:** Selector (FM, AM); AM Tuning, FM Tuning; On-Off; Level Set control. 12 tubes; 6 crystal diodes; 6V4 rectifier. Size, $8\frac{3}{4} \times 14\frac{1}{4} \times 12\frac{1}{2}$ ". Less cabinet; see page 50. For 105-125 v., 50-60 cycle AC. Shpg. wt., 21 lbs.

94 SU 341. NET..... 199.50

NEW "200" 60-WATT BASIC AMPLIFIER

Tremendous reserve power, dependable performance and clean, undistorted reproduction with this new amplifier—60-watt output, with 160-watt peaks, is more than ample even for normally overwhelming orchestral passages! Drives even the lowest efficiency speaker system without overload, clipping or distortion. Advanced features include: Z-Matic variable damping with damping factor range from 0.1 to 10—more than sufficient for every known make of speaker system; special 70.7-volt output for multiple speaker systems; choke input filter system; separate bias voltage supply with dual-triode vacuum tube bias voltage regulator. **Output:** 60 watts; 160-watt peaks. **Response:** $\pm \frac{1}{2}$ db, 20 to 20,000 cps. **Distortion:** harmonic, less than 0.3% at full rated output; IM, less than 0.5%. **Hum & Noise:** — 90 db. **Output Impedances:** 4, 8 and 16 ohms; plus 70.7-v. output. **Controls:** Z-Matic Damping; Input Level; Bias; Speaker Impedance; Phase Inverter Balance. Two EL34/6CA7 output tubes. $8\frac{3}{4} \times 14\frac{1}{4} \times 12\frac{1}{2}$ ". For 105-125 v., 50-60 cycle AC. Shpg. wt., 50 lbs.

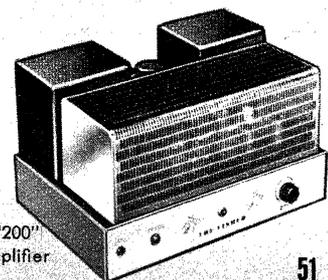
92 SU 416. NET..... 179.50



FM-90X FM Tuner



90-R Basic FM-AM Tuner

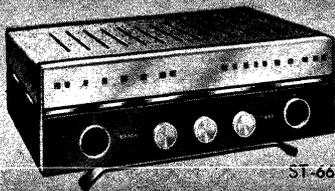


"200" Amplifier

Bogen QUALITY STEREO COMPONENTS



DB230



ST-662

Deluxe Stereo Pair

NEW DB230 STEREO AMPLIFIER

Deluxe stereo amplifier-preamplifier for controlling all stereo sources—tapes, records, FM-AM radio broadcasts, etc. Rated at 30 watts per channel, the DB230 delivers an output of 60 watts for monaural sound sources, with 120-watt peaks! Deluxe features include: feedback tone control circuits for low distortion; premium-type 7025 audio tubes used in critical circuit stages; stereo phasing switch for eliminating "hole-in-middle" effect during stereo use; full array of controls; etc.

Response: $\pm 1/2$ db, 20-20,000 cps. *Distortion:* Harmonic, less than 1% at rated output; IM, less than 2%. *Hum:* —85 db, 10 Inputs (5 per channel): Magnetic Phono; Ceramic-Crystal Phono; Tape; Tuner; Auxiliary. *Controls:* Input Selector (Tape, US78, RIAA, Tuner, Auxiliary); Bass; Treble; Loudness; Hi and Lo Filters; Stereo-Monaural switch; Channel 1 Tape Preamp Off-On; Channel 2 Tape Preamp On-Off; Balance; Volume; Power Off-On; Phasing; Cartridge (Stereo-Monaural). *Output Impedances:* 4, 8, 16 and 32 ohms per channel. Four 60W5 output tubes. Less cage; takes CEG type on page 53. Size, $5\frac{3}{4} \times 15 \times 13\frac{3}{8}$ ". For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 39 lbs.

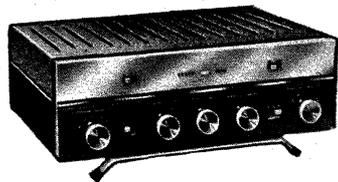
91 SU 659. NET.....169.50

NEW ST-662 FM-AM STEREO TUNER

An ideal companion unit to the Model DB230 amplifier at left. Excellent sensitivity and high selectivity assure clear reception of stereo and monaural FM-AM broadcasts. Separate tuning eye indicators for FM and AM allow pin-point tuning. Automatic frequency control on FM assures utmost ease in tuning. Can be momentarily switched off to permit tuning of weak or distant stations. Automatic volume control on both FM and AM. Slide switch on rear of chassis permits convenient use of the Model ST-662 stereo tuner in monaural high-fidelity music systems.

Sensitivity: FM, $2\frac{1}{2}$ microvolts for 30 db of quieting; AM, (with built-in loopstick antenna), 100 microvolts for 20 db signal-to-noise ratio. *Audio Output:* 1 volt cathode follower. *Controls:* Tuning; Selector Off-On, Stereo, AM, FM, AFC out). *Outputs:* AM, FM, Monaural, Multiplex. *Tubes:* 6AB4, 2—12AT7, 3—6AU6, 2—6BA6, 6BE6, 2—EM840 tuning eye indicators; 2—matched 1N542 crystal diodes; 1N541 crystal diode; EZ80 rectifier. Includes line-cord antenna for FM; loopstick antenna for AM, $4\frac{3}{4} \times 15 \times 12\frac{1}{4}$ ". Less cage; takes BEG type on page 53. For 110-120 v., 50-60 cycle AC. Shpg. wt., 19 lbs.

91 SU 660. NET.....189.50

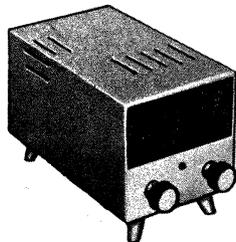


NEW DB212 STEREO AMPLIFIER

Moderately priced stereo amplifier-preamplifier unit. Serves as two 12-watt amplifiers for use with any stereo sound source; or as single 24-watt amplifier for monaural use. Handsome and versatile, the DB212 has many excellent features, including a speaker phasing switch for eliminating "hole-in-middle" effect during stereo use.

Output: 24 watts (2—12-watt channels). *Response:* ± 1 db, 20-20,000 cps. *Harmonic Distortion:* 0.5% at rated output. *Noise & Hum:* —80 db. *Controls:* Selector (Tape, Phono, Radio Tuner, Aux); Function (Monaural; Channel 1, Channel 2, Channels 1 and 2; Stereophonic; Normal, Inverted); Volume; Bass; Treble; Hi-Filter; Lo Filter; 2-pos. Speaker Phasing; Off-On. NARTB-tape and RIAA-phono equalization. *Output Impedances:* 4, 8 and 16 ohms per channel. Four 6V6 output tubes. Size, $4\frac{3}{4} \times 15 \times 12\frac{1}{4}$ ". Less cage; takes BEG type on page 53. For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 20 lbs.

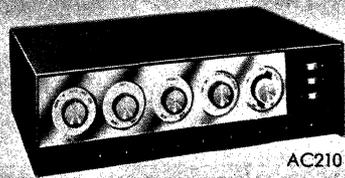
91 SU 613. NET.....115.00



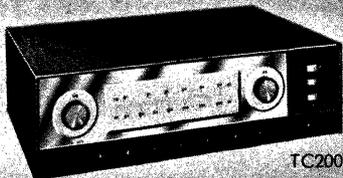
NEW ST10-AG "ADD-ON" STEREO ADAPTER-AMPLIFIER

Designed to convert your present monaural hi-fi system into a 2-channel stereophonic system. Add only another speaker and stereo sound source. The new ST10-AG, successor to the ST-10, has inputs for accepting any stereo signal—records, tapes or FM-AM broadcasts. Incorporates a 2-channel preamp and 10-watt amplifier, with simultaneous volume control over both channels. *Response:* ± 1 db, 20 to 20,000 cps. *Distortion:* 1% at 10 watts output. Two 6AQ5 out. Size, $6\frac{1}{2} \times 5\frac{3}{4} \times 12$ ". With cage. For 110-120 v., 50-60 cycle AC. Shpg. wt., 12 lbs.

91 SX 663. NET.....59.50



AC210



TC200

"Challenger" Stereo Components

NEW AC210 STEREO AMPLIFIER

Outstanding performance, more features and glamorous color styling—are yours with this skillfully designed stereo amplifier-preamplifier. Features dual 10-watt amplifier sections for any stereo sound source—tapes, records or FM-AM broadcasts—and can be used as a complete 20-watt monaural amplifier. The AC210 can also be used as the second 20-watt channel of a stereo system—its complete set of stereo controls permits use with any existing monaural basic amplifier! Speaker phasing switch allows perfect stereo sound "spread"—no "holes" in the total stereo acoustic effect. Rich gold-and-black color styling.

Output: 10 watts per channel for stereo; 20 watts for monaural use. *Response:* ± 1 db, 20 to 20,000 cps. *Harmonic Distortion:* less than 1% at rated output. *Hum & Noise:* —80 db, 10 inputs (5 per channel): Magnetic Phono, Ceramic-Crystal Phono, Tape, Tuner, Auxiliary. *Outputs:* Channel 1 Speaker, Channel 2 Speaker, Channel 1 Tape, Channel 2 Tape. *Controls:* Selector (Tape, Phono, Radio Tuner, Aux); Bass; Treble; Off-On/Volume; Balance; Scratch Filter; Rumble Filter; Stereo-Monaural switch (Channel 1, Channel 2, Stereo Normal, Stereo Invert); Speaker Phasing. *Output Impedances:* 4, 8, 16 and 32 ohms per channel. With case. $4\frac{3}{8} \times 15\frac{1}{8} \times 11$ ". 4—6AQ5 output. For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 12 $\frac{1}{2}$ lbs.

91 SU 661. NET.....99.95

NEW TC200 STEREO FM-AM TUNER

Wonderful three-way listening with Bogen's TC200 "Challenger" Stereo FM-AM Tuner! Provides exceptional FM reception, AM reception, and new stereophonic listening from stereo FM-AM broadcasts. Matches the AC210 amplifier in performance and in color styling—together they form a high-fidelity stereo team of excellent quality.

FEATURES. Highly sensitive circuit offers clear reception of weak and distant stations. Excellent selectivity eliminates interference from adjoining stations. Automatic frequency control on FM greatly aids in "locking-in" FM station of your choice. Automatic volume control on FM and AM prevents overload. Advanced circuitry of the TC200 features use of crystal diodes for freedom from hum and distortion.

Sensitivity: FM, 3 microvolts for 30 db of quieting; AM, (with loopstick antenna), 100 microvolts for 20 db signal-to-noise ratio. *Controls:* Tuning; Off-On; AM Off-On; FM Off-AFC Out-FM On. *Audio Output:* 1 volt, FM and AM. *Outputs:* AM, FM, Multiplex. *Tubes:* 6AB4, 12AT7, 6BE6, 2—6BA6, 2—6AU6; 2—matched 1N542 crystal diodes; 1N541 crystal diode; EZ80 rectifier. Built-in line cord antenna for FM; AM ferrite loopstick antenna. Provision for adding external AM and FM antennas. Size, $4\frac{3}{8} \times 15\frac{1}{8} \times 11$ ". With case, color-styled in gold-and-black. For 110-120 v., 50-60 cycle AC. Wt., 16 $\frac{1}{2}$ lbs.

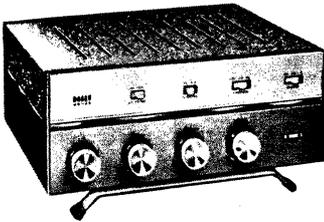
91 SU 662. NET.....129.50



NEW STA-1 STEREO ADAPTER

An easy-to-use, low-cost adapter that permits single-knob control of the Volume and Balance in stereo systems using two amplifiers. For use only with new Bogen amplifiers and Models DB130 and PR100A. The STA-1 permits listening to either stereo or monaural sound; balances the output of two speakers; switches speakers from one amplifier to the other. *Controls:* Stereo-Monaural switch; Normal-Reverse switch; single Volume-Balance control (concentric knob). Includes cables. With case. Size, $4\frac{3}{4} \times 3\frac{1}{2} \times 5$ ". Shpg. wt., 2 $\frac{1}{2}$ lbs.

91 SX 614. NET.....16.00



NEW DB125 AMPLIFIER

An outstanding 25-watt amplifier, featuring complete control facilities, newest circuitry, and deluxe styling. Has variable damping control, 3-position speaker selector switch, controlled positive feedback circuit for extremely low distortion, etc. *Output:* 25 watts. *Response:* $\pm 1/2$ db, 20-20,000 cps. *Distortion:* harmonic, less than 0.3%; IM, less than 1%. *Hum & Noise:* -80 db. *Controls:* Selector (Tape, 78, Old, RIAA, Radio, Aux.); Bass; Treble; Off-On/Volume; Loudness; Lo Filter; Hi Filter; Speaker (A, AB, B). *Chassis Controls:* Damping Off-On; Stereo Adapter Off-On; Balance, Bias and Hum adjustments. *Output Impedances:* 4, 8 and 16 ohms; tape output, 2-6973's in output. Less cage; takes AEG type below. $4\frac{3}{4} \times 12 \times 12$ ". For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 18 lbs.
91 SU 664. NET.....99.50

NEW DB114 AMPLIFIER

Not illustrated—similar to DB125 above. Has stereo input for adding STA-1 adapter. *Output:* 14 watts. *Distortion:* Harmonic, less than 0.5%; IM, less than 1%. *Response:* $\pm 1/2$ db, 20-20,000 cps. *Controls:* Selector (Tape, 78, RIAA, Radio, Aux.); Bass; Treble; Off-On/Volume; Loudness; Rumble Filter; 3-pos. Speaker Selector. *Output Impedance:* 4, 8, 16 ohms. 2-6V6GT output. $4\frac{3}{4} \times 12 \times 12\frac{1}{4}$ ". Less cage; takes AEG type below. For 110-120 v., 50-60 cycle AC. Shpg. wt., 16 lbs.
91 SX 629. NET.....69.50



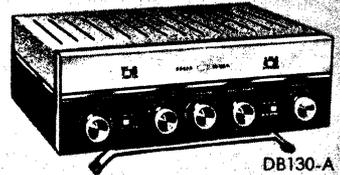
T661

Deluxe FM-AM Basic Tuner & 35-Watt Amplifier

NEW T661 BASIC FM-AM TUNER

Deluxe styling and truly outstanding performance are skillfully blended in the make-up of this splendid tuner. FM section has extremely sensitive and selective circuitry employing Foster-Seeley discriminator and dual limiter; low-noise front section consists of tuned RF mixer and two IF stages. Temperature-compensated oscillator prevents drifting off station. Automatic frequency control for "lock-in" tuning, with defeat position for tuning in weak or distant stations. AM section offers a 10-kc whistle filter; automatic volume control; special-design, built-in ferrite loopstick antenna; and cathode follower output. Unique FM-AM tuning indicator.

Sensitivity: FM, $2\frac{1}{2}$ microvolts for 30 db of quieting; AM, 5 microvolts for 20 db signal-to-noise ratio. *Selectivity:* FM, 180 kc, 3 db down; AM, 10 kc, 3 db down. *Audio Output:* 1 volt. *Controls:* Selector (On-Off, AM, FM, AFC Out); Tuning, 9 tubes; 2 matched 1N542 crystal diodes; 6X4 rectifier. Built-in FM and AM antennas. $4\frac{3}{4} \times 12 \times 12\frac{1}{4}$ ". Less cage; takes AEG type below. For 110-120 v., 50-60 cycle AC. Shpg. wt., 16 lbs.
91 SU 665. NET.....129.50

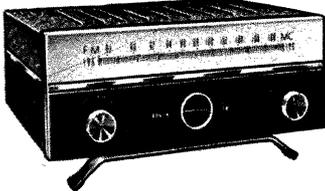


DB130-A

TOP-RATED DB130-A AMPLIFIER

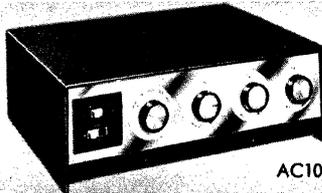
This 35-watt amplifier offers exceptional versatility plus full-toned, perfectly-balanced reproduction. Extremely uniform output, low distortion and high power handling capacity assure faithful sound reproduction. Loudness contour selector for correct tonal balance even at very low listening levels. Variable damping control provides cleaner bass response by precisely coupling amplifier to speaker system.

Output: 35 watts with 1.5% IM distortion. *Harmonic Distortion:* 0.3%. *Response:* ± 0.5 db, 15-30,000 cps. *Hum:* (Below rated output): Magnetic Inputs, -60 db; other inputs, -80 db. *Output Impedance:* 4, 8 and 16 ohms. *Inputs:* High-level Magnetic Phono, Low-level Magnetic Phono; Tuner; Tape; Tape Monitor; Auxiliary Crystal Phono. *Controls:* On-Off; Loudness-Contour; Bass; Treble; Selector (Phono, Radio, Tape, Aux.); 7-pos. Equalizer (Eur 78, U.S. 78, AES, RIAA, COL-LP, NAB, POP); 3-pos. Low Filter; 3-pos. High Filter Gain; 3-pos. Speaker Selector. Size, $4\frac{3}{4} \times 15 \times 12\frac{1}{4}$ ". 2-6AV50A/GT in output. Less BEG cage, below. For 110-120 v., 60 cycle AC. Shpg. wt., 24 lbs.
91 SU 666. NET.....124.50



NEW FM51 BASIC FM TUNER

Exceptionally fine basic FM tuner. Has automatic frequency control to "lock in" stations, and temperature compensated oscillator to prevent drifting. AFC defeat switch permits tuning weak stations adjacent to strong ones. Tuning-eye simplifies tuning. *Sensitivity:* $2\frac{1}{2}$ μ v for 30 db quieting. *Output:* 1 v. *Controls:* Tuning; Off-On (with AFC)—On (AFC out), 6 tubes, rectifier; tuning eye; 2-1N542 diodes. $4\frac{3}{4} \times 12 \times 12\frac{1}{4}$ ". With built-in line cord antenna. Less cage, takes AEG below. For 110-120 v., 50-60 cycle AC. Shpg. wt., 14 lbs.
91 SU 667. NET.....104.50



AC10

NEW AC10 AMPLIFIER

True high-fidelity performance and control flexibility at low cost. One of the best buys in budget-priced hi-fi components, the AC10 "Challenger" 10-watt amplifier offers many fine features. Separate bass and treble controls; loudness-contour selector for choosing the most suitable volume levels without loss of high or low frequencies; instant selection of popular tape and record equalization positions; and excellent response with low distortion and noise levels. Use two AC10's and STA-1 adapter (see page 52), for stereo use. Metal cabinet is handsomely styled in black, with contrasting black and gold panel.

Output: 10 watts; 20-watt peaks. *Response:* ± 1 db, 20-20,000 cps. *Distortion:* 1% at rated output. *Hum & Noise:* -75 db. *Inputs:* Tuner, Magnetic Phono, Crystal Phono, Tape, Auxiliary. *Controls:* Rumble Filter; Loudness; Selector-Equalizer (Tape, 78, RIAA, Phono, Tuner Aux.); Volume-On-Off; Bass; Treble. *Output Impedances:* 4, 8 and 16 ohms. 2-6A05 output. Size, $4\frac{1}{4} \times 12\frac{1}{2} \times 8\frac{3}{4}$ ". With cage. For 110-120 v., 50-60 cycle AC. Shpg. wt., 10 lbs.
91 SX 621. NET.....55.00

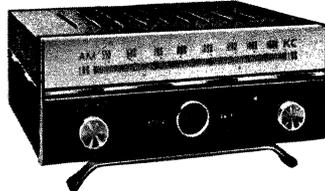


TC100

NEW TC100 BASIC FM-AM TUNER

A perfect companion to the AC10 amplifier in styling, price and performance, the TC100 tuner features circuitry using a carefully matched pair of crystal diodes for freedom from hum and distortion. FM section employs an Armstrong circuit with limiter, and Foster-Seeley discriminator; AM section is a superhet circuit with automatic volume control. Automatic frequency control on FM pin-points and holds the desired station—automatically finds the optimum signal of an FM station as you dial in its vicinity. Other features are: illuminated dial with hairline indicator; flywheel tuning control for effortless, accurate tuning; black-and-gold color styling to match the AC10 amplifier; etc.

Sensitivity: FM, $3\frac{1}{2}$ microvolts for 30 db quieting; AM, 5 microvolts for 20 db signal-to-noise ratio. *Controls:* On-Off; AM-FM; AFC Out; Tuning. *Audio Output:* Amplifier and Tape, 1 volt. Built-in FM and AM antennas. 6 tubes; matched pair of 1N542 crystal diodes; 6X4 rectifier. $4\frac{1}{4} \times 12\frac{1}{2} \times 8\frac{3}{4}$ ". With cage. For 110-120 v., 50-60 cycle AC. Shpg. wt., 13 lbs.
91 SU 622. NET.....87.50



NEW AM91 BASIC AM TUNER

Has 3 tuned RF circuits; built-in antenna; 10-kc filter; etc. 4 tubes plus rectifier and tuning eye. Size, $4\frac{3}{4} \times 12 \times 12\frac{1}{4}$ ". Less cage; takes AEG type listed at right. For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 14 lbs.
91 SU 668. NET.....91.50

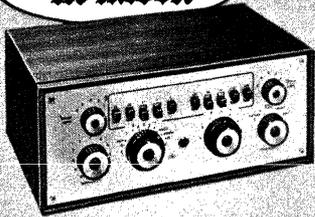
METAL CAGES FOR BOGEN COMPONENTS

- 91 SX 630. Type AEG. $4\frac{3}{4} \times 12 \times 12\frac{1}{4}$ ". For AM91, FM51, T661, DB125, DB114. NET...6.00
- 91 SX 617. Type BEG. $4\frac{3}{4} \times 15 \times 12\frac{1}{4}$ ". For DB130-A, ST662, DB212. NET.....7.50
- 91 SX 618. Type CEG. $5\frac{3}{4} \times 15 \times 13\frac{3}{4}$ ". For DB230. NET.....8.00

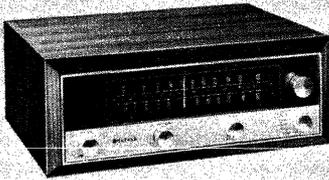
Write for Allied's System Plan Price on Components of Your Choice

McIntosh

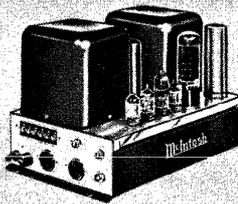
DELUXE HIGH-FIDELITY



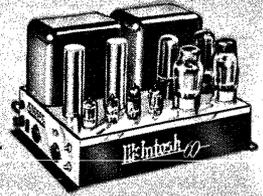
C-8S "ADD-ON" Stereo Preamp



MR-55 FM-AM Tuner



MC-30 30-Watt Amplifier



MC-60 60-Watt Amplifier

NEW C-8S "ADD-ON" STEREO PREAMP

NET \$99.00
\$9.90 Down

New audio control unit that offers unusual flexibility of equalization and tone compensation. For use with hi-fi systems that employ a separate preamplifier. The C-8S offers bass and treble control for the 2nd channel; provides master gain, balance and stereo mode controls. *Controls:* 5-pos. Rumble Filter; Record Compensator with 10 slide switches; 5-pos. Aural Compensator; Selector (Tape, Tuner, Tape Head, Phono 1, Phono 2); Bass; Treble; Stereo Mode Selector (Stereo, Stereo Reverse, Left Channel, Right Channel, Monaural—through both amplifiers and speakers); Stereo Balance; Off-On; Master Gain. Size, 3½x10x7½". Less cabinet (listed below). Takes operating power from MC-30 or MC-60 basic amplifiers. Shpg. wt., 9 lbs.
91 SU 694. NET..... 99.00

MODEL C-8 PREAMPLIFIER

Not illustrated. Same as the C-8S, but less stereo features. Takes operating voltages from MC-30, MC-60 basic amplifiers. Less cabinet, below. Shpg. wt., 7½ lbs.
93 SU 889. NET..... 88.50

WOOD CABINETS FOR C-8S AND C-8 UNITS. Size, 4¾x11½x7¾". Shpg. wt., 1¼ lbs.
93 SX 898. Mahogany. NET
93 SX 709. Blonde. EACH..... 10.00

NEW MR-55 BASIC FM-AM TUNER

NET \$249.00
\$24.90 Down

For the audio connoisseur. Two years in the making, the MR-55 sets new standards in distortion-free FM-AM reception. *AM Section.* Sensitivity: 1½ µv. Distortion: less than 1% at 100% modulation. Exceptionally strong automatic volume control; less than 4 db audio output change with input changes from 10 to 100,000 microvolts. 3 positions of AM sensitivity; 3 positions of bandwidth. Front end has 21 kc constant bandwidth, band pass input. Whistle filter.

FM Section. Sensitivity: 3 µv at 100% modulation for a total of less than 3% total noise and distortion. Capture ratio: 1 to 0.8. 4 IF amplifiers. IF bandwidth: 200 kc; flat on top. 2 limiters; 2-mc limiter and detector bandwidth. Ultrasonic muting. Distortion-free automatic frequency control with separate detector; completely variable. Hum: 70 db below full signal. *Controls:* Off/FM AFC; AM Sensitivity; Off-On/Volume; FM Listen-Tune; AM Broad-Medium-Sharp; Phono. 4¾x14¾x12". Less cabinet, below. For 110-120 v., 50-60 cycle AC. 27½ lbs.
91 SU 619. NET..... 249.00

WOOD CABINETS FOR MR-55. Shpg. wt., 5 lbs. In choice of mahogany, blonde or walnut—specify finish when ordering.
91 SX 695C. NET EACH..... 25.00

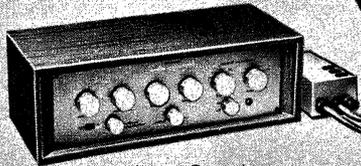
MC-30 30-WATT BASIC AMPLIFIER

Offers flawless audio reproduction. Special circuit employs "unity coupling" for greater power output without distortion. For use with C-8S or C-8 preamps listed at left, or any other quality preamp or tuner with full set of controls. Only 0.5 v. input is required for full 30 watt output. *Response:* ±0.1 db, 20 to 30,000 cps. *Distortion:* Harmonic, less than 1/3% at 30 watts; IM, less than 0.5%. *Hum & Noise:* -90 db. *Output Impedances:* 4, 8, 16, 600 ohms and 70.7 v. 2-1614's in output. Black and chrome styling. 8x13x8". For 110-120 v., 50-60 cycle AC. Shpg. wt., 36 lbs.
93 SU 895. \$14.35 Down. NET... 143.50

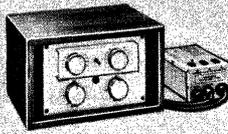
MC-60 60-WATT BASIC AMPLIFIER

Offers exceptional reserve power capacity—provides extremely faithful reproduction of the entire audio range. Perfect for use with C-8S or C-8 preamps listed at left, or other preamplifiers with full set of controls. *Output:* 60 watts continuous. *Response:* ±0.1 db, 20 to 30,000 cps at 60-watt output at 60-watt output; IM, less than 0.5%. *Hum & Noise:* 90 db or more below rated output. *Output Impedances:* 4, 8, 16, 600 ohms and 70.7 v. *Input Impedance:* 1/2 meg for 1/2-volt input and 0.13 meg for 2 1/2-volt input. *Tubes:* 2-12AX7, 12AU7, 12BH7, 2-6550 output tubes; 2-5U4GA rectifiers. Chrome and black styling. Size 8x14¾x10". For 110-120 v., 50-60 cycle AC. 44 lbs.
93 SU 899. \$19.85 Down. NET... 198.50

marantz



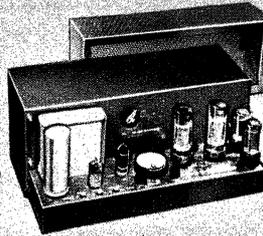
Audio Console Preamp-Equalizer



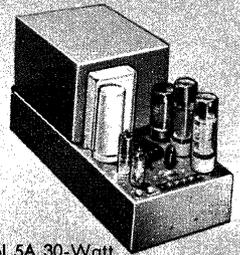
Electronic Crossover



New Stereo Control



Model 2A 40-Watt Basic Amplifier



Model 5A 30-Watt Basic Amplifier

AUDIO CONSOLETTA PREAMP

Superbly designed unit. Employs deposited-carbon resistors, silvered mica capacitors, terminal board construction, etc. Spectacularly low distortion and noise. *Hum:* Inaudible, full gain. *Response:* ±1 db, 20-60,000 cps. *IM:* 12 v. RMS, 0.5%. *7 Inputs:* 3—low-lev. Mike, low or med.-lev. Mag.; 4—high-lev. for Tuner, Tape, TV, Extra. Cathode follower output. Tape output affected by record equalizers only. *Controls:* 6-pos. Input Selector; Tape-Playback or Monitor; 6-pos. Bass; 7-pos. Treble; Loudness; Bass and Treble Tone; HF Filter; On-Off. Less cabinet. 4¾x14½x6". For 110-120 v., 50-60 cycle AC. 13 lbs.
91 SU 605. \$15.30 Down. NET... 153.00

WOOD CABINET FOR ABOVE. Available in mahogany, blonde or walnut veneers—specify choice when ordering. Shpg. wt., 3 lbs.
91 SX 699C. NET EACH..... 18.00

ELECTRONIC CROSSOVER

Distortion-free unit separates audio from preamp for systems using an amplifier for each frequency range. Basically a 2-channel unit—may be cascaded for further separation. Has level and crossover (12 pos.) controls for both bass and treble channels. *IM:* less than 0.1% @ 2 v. out. Power supply, 2½x3½x6". Less cabinet. 8 lbs.
93 SU 532. \$9.00 Down. NET... 90.00

WOOD CABINETS FOR ABOVE. Specify choice of mahogany, blonde or walnut. 2 lbs.
92 SX 813C. NET EACH..... 15.00

NEW STEREO CONTROL UNIT

Has Master Selector for stereo/monaural control of all inputs. Use with preamps having tape monitor facility. Master Volume control, etc. 3¾x9½x4½". 7 lbs.
92 S 812. \$4.50 Down. NET..... 45.00

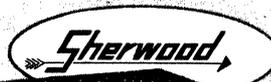
40-WATT BASIC AMPLIFIER

MODEL 2A. Deluxe, 40-watt ultra-linear amplifier. Switch permits 20-watt triode operation to protect low-power speaker systems. Built-in meter and switch for Bias, DC Balance, AC Balance. Variable damping. *Hum:* -90 db. *Response:* ±1 db, 15-45,000 cps. *Distortion:* Harmonic, under 0.5% to 10 kc; IM, 0.5% at 40 watts. *Impedances:* 4, 8, 16 ohms. 6½x15x9½". For 110-120 v., 50-60 cycle AC. 46 lbs.
99 SU 006. \$19.80 Down. NET... 198.00

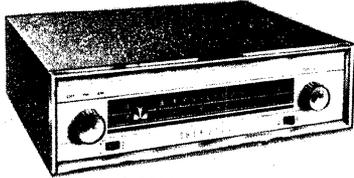
30-WATT BASIC AMPLIFIER

MODEL 5A. Same as above, but 30-watt output and some exterior changes. Ideal for use in pairs in stereo systems, or with Marantz electronic crossover, 7¾x15¼x6". Less cage, below. Shpg. wt., 35 lbs.
92 SU 810. \$14.70 Down. NET... 147.00
92 S 811. Cage for above, 1 lb. NET... 7.50

MUSIC COMPONENTS



S-4000 20-Watt "Add-On" Stereo Amplifier



S-2000 FM-AM Tuner



S-1000 II 36-Watt Amplifier

S-4000 "ADD-ON" STEREO AMPLIFIER

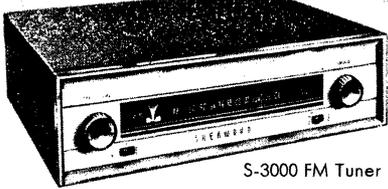
Converts any monaural high-fidelity system to stereo operation, with complete stereo/monaural control facilities. Can be used with basic amplifier, or any other amplifier. Features dual switching, single preamp and single 20-watt amplifier section. Controls include dual-loudness, stereo normal/reverse switch and phase-inversion switch. Mode selector (stereo, stereo reverse, monaural 1, monaural 2, monaural 1 and 2), also operates group of indicator lights. All other controls are identical to the S-1000 II 36-watt amplifier below. **Output:** 20 watts; 40-watt peaks. **IM Distortion:** less than 1 1/2% at full rated output. **Response:** ±1 1/2 db, 20-20,000 cps at full output. **Hum & Noise:** 80 db below rated output. RIAA phono input; NARTB tape head input; 3 high-level inputs. Less case, at right below. 4x14x10 1/2". For operation from 110-120 v., 60 cycle AC. Shpg. wt., 23 lbs. 91 SU 673. \$10.95 Down. NET. . . 109.50

S-1000 II 36-WATT AMPLIFIER

A fine example of functional styling and complete control flexibility, the S-1000 II meets every requirement of the hi-fi music lover. Employs inverse feedback circuitry, and special output transformer to attain undistorted power output (below 1/2% at 36 watts)! **Output:** 36 watts; 72-watt peaks. **Response:** ± 1/2 db, 20 to 20,000 cps at 36 watts. **Hum & Noise:** Volume control, -90 db; radio input, -80 db; Phono, -60 db, 6 **Inputs:** 2—Magnetic Phono, Tape Head or Mike, 4—Tuner, Tape Recorder, TV, etc. **11 Controls:** Push-button switches for Presence, Scratch Filter, Rumble Filter and Phono Level; slide switches for Tape Monitor and Loudness In-Out; Selector (Tape, Phono, A, B, C); Equalization (LP, Lon, RIAA-AES, Eur, Tape, Mic); Bass; Treble; and Off-On Loudness. Four EL84 output tubes. 4x14x10 1/2". Less case, right. For 110-120 v., 60 cycle AC. 23 lbs. 94 SU 331 \$10.95 Down. NET. . . 109.50

S-2000 FM-AM BASIC TUNER

Features highly sensitive circuitry, automatic frequency control on FM, "feather-ray" tuning eye for pin-point FM-AM station selection and directable rod AM antenna. **FM Section:** Unusual sensitivity of 0.95 μ v for 20 db quieting. Circuit employs triode mixer, IF amplifier, 3 cascaded limiters, Foster-Seeley balanced discriminator and cascade RF amplifier. **AM Section:** 2 μ v sensitivity for 0.5 v. output. Superhet circuit, 2 tuned RF circuits, pentagrid mixer, double-tuned IF stage with switched coupling and low-distortion diode detector. 10 kc whistle filter. **Controls:** Off-On-FM-AM; Tuning; slide switch for AM Wide, AM Narrow; slide switch for FM-AFC On-and-Off. Cathode follower output; FM multiplex output. 10 tubes: 6X4 rectifier, 6BR5/EM80 tuning eye. 4x14x10 1/2". Less case, right. For 110-120 v., 60 cycle AC. 18 lbs. 94 SU 332. \$13.95 Down. NET. . . 139.50



S-3000 FM Tuner

S-3000 BASIC FM TUNER

A skillfully designed, highly recommended unit that features the same, extremely sensitive FM circuit employed in the S-2000 tuner; styling matches the S-1000 II amplifier. Outstanding sensitivity makes FM reception practical beyond 100 miles. Highly stable coil design, delayed automatic gain control and Foster-Seeley discriminator, preceded by 3 limiters, assures distortion-free reception. Automatic frequency control for drift-free tuning; disabling switch permits tuning in weak, distant stations. Balanced antenna input transformer feeds cascade RF amplifier—reduces noise during reception of distant stations and minimizes interference. Has "feather-ray" tuning eye.

Sensitivity: 0.95 microvolt for 20 db quieting. **Controls:** Off-On; AFC Off-On; Tuning; Sensitivity (Local-Distance). Cathode follower audio output; FM multiplex output. 9 tubes: 6BR5/EM80 tuning eye; 6X4 rectifier. 4x14x10 1/2". Less case, below. For 110-120 v., 60 cycle AC. Wt. 16 lbs. 94 SU 333. \$9.95 Down. NET. 99.50

METAL CASES FOR SHERWOOD UNITS
Fit all Sherwood units listed on this page. Type B. Black "flextone". Shpg. wt., 3 lbs. 94 SX 334. NET. 5.00

Type C. Mahogany leatherette with classic gold tooling. Shpg. wt., 3 lbs. 94 SX 335. NET. 10.00

NEW S-1060 60-WATT AMPLIFIER

(Not illustrated) Exactly matches the S-1000 II 36-watt amplifier in size, appearance and control features. Highly efficient operation—employs six 7189 audio output tubes operating from a silicon rectifier power supply. Consumes less power (only 110 watts), than many 20-watt amplifiers. Other features include "tube-saver" time delay switch in power supply; DC preamp tube filament supply for elimination of hum; and output tube balance control. (See the S-1000 II at left for listing of controls.) **Output:** 60 watts; 120-watt peaks. **Response:** ±1 1/2 db, 20 to 20,000 cps at 60-watt output. **IM Distortion:** less than 1 1/2% at full 60-watt output. **Hum & Noise:** 80 db below 60 watts. **Inputs:** Phono, Tape Head, 3—High-Level, Tape Monitor. **Output Impedances:** 4, 8 and 16 ohms; cathode follower for recording. Less case; see right. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 23 lbs. 91 SU 674. \$14.95 Down. NET. . . 149.50

Madison-Fielding Stereo Components

MODEL 330 STEREO FM-AM TUNER

Two sensitive tuners on one compact chassis. Can be used individually for AM or FM reception, or by turning a switch, provides stereophonic reception of stereo FM-AM broadcasts. Features exclusive "Dual Stereoscopic" tuning indicator tube—provides professional-type, visual center-of-channel tuning for both AM and FM signals simultaneously. Includes FM multiplex output jack for this type of reception (FM-FM stereo). **FM Section:** Sensitivity: 2 μ v for 20 db quieting. IF Bandwidth: 355 kc at 3 db points, 420 kc at 6 db points. Highly stable circuit; automatic frequency control for drift-free operation. **AM Section:** Sensitivity: 3 μ v. Circuit employs AVC; separate tuned RF stage for maximum selectivity. **Controls:** AM Tuning; FM Tuning; Selector (AM, FM, Stereo); On-Off. Dual level controls. Two cathode follower outputs. 10 tubes. Size, 6 1/2 x 15 x 12 1/2". Less case, below. For 110-120 v., 50-60 cycle AC. 25 lbs. 91 SU 609. \$15.00 Down. NET. . . 150.00

WOOD CASE FOR 330 AND 320 UNITS. Styled in beautiful walnut veneer to match the front panels of above components. Shpg. wt., 4 lbs. 91 SX 611. Only \$2.00 Down. NET. 20.00

320 40-WATT STEREO AMPLIFIER

Brilliantly engineered unit featuring two 20-watt channels; 40-watt output for monaural use. Highly versatile, the 320 is suited for any stereo or monaural use—has full set of controls and inputs. Can be used as an electronic crossover in 2-way speaker systems, using one channel to drive the woofer, the other to drive the tweeter. Includes "stereoscopic dual magic eye." **Output:** 20 watts per channel; 40 watts monaural. **Response:** ± 1/2 db, 20 to 20,000 cps. **Hum & Noise:** less than 75 db at full output. **Controls:** 2—Equalization (RIAA, LP, EUR, AES, Tape Head); 2—Volume/Loudness; 2—Bass, 2—Treble; On-Off; Master Volume; Selector (Monaural Preamp, Monaural Tuner, Monaural Tape, Stereo Preamp, Stereo Tuner, Stereo Tape). **Inputs (each channel):** 2—high-level; 2—low-level. **Output Impedances:** 4, 8 and 16 ohms per channel; tape recorder monitor. 4—6BQ5A output tubes. 6 1/2 x 15 x 12 1/2". For 110-120 v., 50-60 cycle AC. Wt., 25 lbs. 91 SU 610. \$17.00 Down. NET. . . 170.00



330 Stereo FM-AM Tuner



320 40-Watt Stereo Amplifier

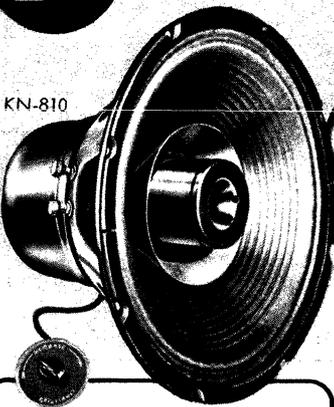
FAMOUS TOP-VALUE **knight** 3-WAY SPEAKERS



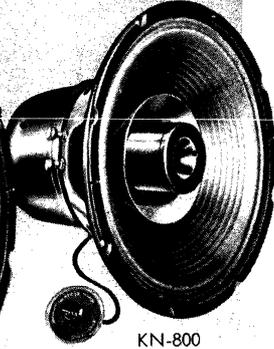
SUPERB SOUND AT LOW COST

Knight means dependability and economy—and you can be sure of both of these qualities when you purchase Allied's widely acclaimed, 12" and 15", 3-way speakers. You'll get the most in truly fine speaker performance for each dollar of their cost. Every part of these speakers is made to Allied's exacting specifications to assure you of optimum high-fidelity sound. An instant success when they were initially introduced, Knight 3-way speakers are excellent values, recommended for use in any moderate-cost hi-fi music system.

KN-810



KN-800



Popular **knight** 12" and 15" 3-Way Precision Speakers

AS LOW AS
\$44.95

\$4.50 Down

- 3 Independent Radiating Elements for Uniform Response
- Full 1¾-Pound Alnico V Magnet with High Flux Density
- Genuine Compression-Type Horn-Loaded Tweeter
- Built-in Electrical Crossover; L-Pad Tweeter Control

Allied's own 3-way, high-fidelity speakers are carefully designed and manufactured to strictest audio specifications—and brought to you at an outstandingly low price. Featuring 3-way design, a large woofer cone is used for low-frequency reproduction; a specially constructed conical radiator is employed for clean mid-frequencies; and a built-in compression-type tweeter is used to reproduce highest frequencies with unusual clarity. Recommended for use in almost any type of speaker enclosure, the moderate cost of Knight 3-way speakers makes them perfect for use in pairs in stereophonic music installations—sound is genuinely impressive!

High-frequency level control permits you to adjust response to satisfy personal listening tastes and to match room acoustics. The L-pad tweeter level control is wired to the tweeter on a 30" cable, complete with calibrated dial and control knob. You connect amplifier output wires to binding posts on the speaker frame—no soldering necessary. The Alnico V woofer magnet used to drive bass and mid-range cones, weighs a full 1¾ pounds for solid bass response. Heavy speaker frame prevents rattling and distortion. Mechanical first crossover is at 2000 cps; a built-in electrical crossover network smooths the transition from mid-range to tweeter at 4000 cps. Power handling capacity of each speaker, 25 watts. Impedance, 16 ohms. *Unconditionally guaranteed for one full year.*

MODEL KN-800 12" SPEAKER. Response, 35 to 15,000 cps. Resonant frequency, 50 cps. Diameter, 12½"; depth, 8". Shpg. wt., 12 lbs.
81 DX 839. *Only \$4.50 Down.* NET..... **44.95**

MODEL KN-810 15" SPEAKER. Response, 30 to 15,000 cps. Resonant frequency, 40 cps. Diameter, 15½"; depth, 9". Shpg. wt., 15 lbs.
81 DX 840. *Only \$5.50 Down.* NET..... **54.95**

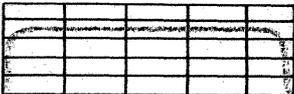
FULL FREQUENCY RANGE



Woofer Mid-Range Tweeter

Full-range sound to 15,000 cycles is smoothly dispersed by 3 radiating elements.

LEVEL RESPONSE



Uniform response, smooth across entire audio range—for tireless listening.

COMPRESSION-TYPE TWEETER



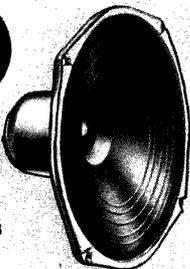
Horn-loaded, compression-type tweeter provides smooth reproduction of high frequencies.

NEW **knight** Wide-Range 8" High-Fidelity Speaker

ONLY
\$9.95

Manufactured to Allied's specifications by skilled British craftsmen, the precisely built KN-808 8" speaker features carefully designed, high-compliance hyperbolic cone to attain extremely smooth, distortion-free response. Chemically treated, "soft suspension" around the outer edge of the cone permits greater cone excursions for excellent bass reproduction—handles loud orchestral passages with astonishing fidelity! The small size of the KN-808 makes it perfect for use in a wide variety of small enclosures; ideal for use in pairs in stereo music systems. Frequency range, 40 to 12,000 cps. Power handling capacity, 15 watts. Cone resonance, 55 cps. Alcomax 3 magnet material (similar to Alnico V). Magnet wt., 7½ oz. Impedance, 16 ohms. Depth, 3¾". Rigid, vibration-free speaker frame with binding post terminals for quick, easy connection of amplifier leads. Shpg. wt., 3 lbs.

82 D 808. NET..... **9.95**



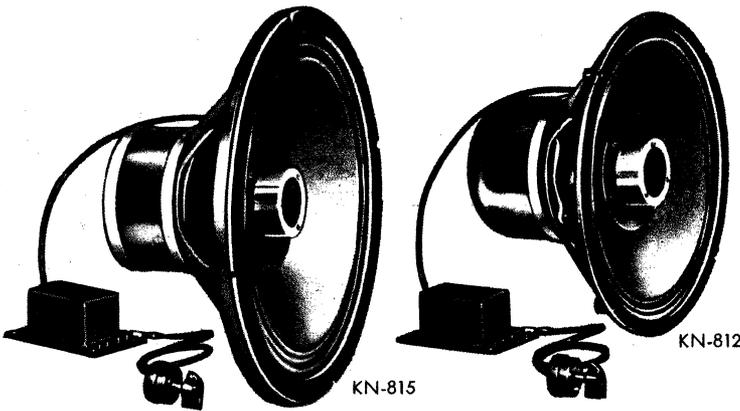
KN-808

Hyperbolic Cone for Smoother Frequency Response

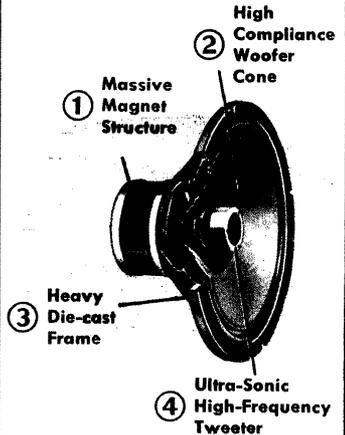
NEW knight DELUXE HIGH-FIDELITY SPEAKERS



**THE BEST HI-FI
SPEAKER VALUES
ANYWHERE!**



CHECK THESE NEW DESIGN FEATURES



- Heavy magnets (3½ & 6¼ lbs.), assure high concentration of magnetic flux in voice coil gap.
- Vacuum-formed woofer cone with chemically treated edge-suspension for 25/35-cps resonance.
- Heavy, die-cast frame assures permanent alignment of voice coil, free of vibration.
- Compression-type tweeter features phase-correction chamber for cleanest high-frequency response.

DELUXE PLUG-IN CROSSOVER NETWORK



A true custom-quality feature. The double-section, L-C type crossover network (5000 cps), provides 12 db attenuation per octave. Assures perfect separation of lows and highs to woofer and tweeter. Includes wired-in, L-pad high-frequency level control.

NEW knight Deluxe 12" and 15" High-Fidelity Speakers

AS LOW AS
\$69⁵⁰

- Massive Magnet Structures—Rigid Die-Cast Frames
- Compression-Type Exponential Tweeter Provides Sparkling Response Well Past the Limits of Audibility
- Genuine L-C Crossover—Clean Separation of Lows & Highs
- Vacuum-Formed Woofer Cone; High-Compliance Suspension

Remarkable values by any standard of comparison, these new Knight deluxe 12" and 15" speakers combine high-fidelity design of the highest order with outstanding workmanship. Carefully built to Allied's specifications by British craftsmen, each speaker features three elements for ultra-smooth bass, mid-range and treble reproduction. Woofer has virtually free cone suspension due to its resilient, chemically treated edge. Mid-frequency radiator cone is mounted in center of woofer. Compression-type tweeter with exponential horn for wide-angle high-frequency dispersion (180°), provides silk-smooth treble to inaudibility. Flawless reproduction is yours with either of these fine speakers—each is guaranteed for one full year!

Extra-heavy cast metal frames keep aluminum voice coil permanently centered. Massive magnet structures assure high concentration of magnetic flux in voice coil gap for distortion-free reproduction of even the most powerful bass passages. Magnet material is the highly efficient Alcomax III (similar to Alnico V). High-frequency L-pad level control on 30" cable for adjusting tweeter response to suit personal listening tastes. Mechanical mid-frequency crossover effects smooth transition at 2000 cps. L-C type, 5000-cps electrical crossover provides 12 db attenuation per octave. Depth, 7¾". Impedance, 16 ohms.

MODEL KN-812 12" SPEAKER. Frequency response, 30 to 20,000 cps. Magnet weight, 3½ lbs.; provides high flux density. Resonant frequency, 35 cps, Power handling capacity, 35 watts. Shpg. wt., 34 lbs.
82 DU 812. Only \$6.95 Down. NET..... 69.50

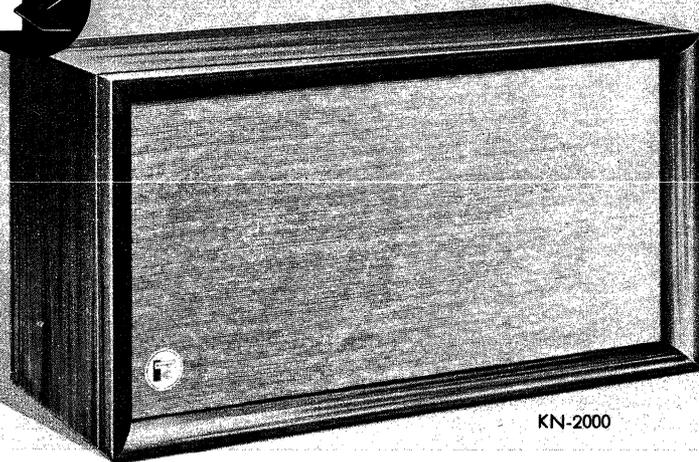
MODEL KN-815 15" SPEAKER. Frequency response, 25 to 20,000 cps. Magnet weight, 6¼ lbs.; provides high flux density. Resonant frequency, 25 cps. Power handling capacity, 50 watts. Shpg. wt., 36 lbs.
82 DU 815. Only \$8.95 Down. NET..... 89.50

SAVE . . . Buy knight Speakers in Pairs For Stereo

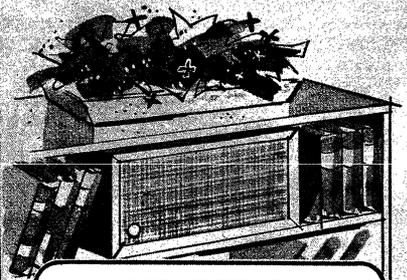
Take advantage of this opportunity to purchase Knight hi-fi speakers in pairs. Excellent values at their regular low cost, Allied makes it possible for you to pocket extra savings when you buy them in pairs. Uniformity of characteristics and response makes them perfect for use in stereophonic music systems—provide highly realistic reproduction of sound.

Stock No.	Description	Shpg. Wt., Lbs.	TWO FOR:	You Save
91 DU 938-2	2—KN-800 12" Speakers	24	79.90	10.00
91 DU 911-2	2—KN-810 15" Speakers	30	94.90	15.00
79 DZ 280-2	2—KN-812 12" Speakers	68	124.00	15.00
79 DZ 281-2	2—KN-815 15" Speakers	72	164.00	15.00
79 D 279-2	2—KN-808 8" Speakers	6	15.90	4.00
79 DZ 282C2	2—KN-2000 Speaker Systems— specify mahogany, limed oak or walnut veneer	90	159.00	10.00

knight HI-FI SPEAKER SYSTEMS AND ENCLOSURES



KN-2000



knight KN-2000 3-Way High-Compliance Speaker System

NET **\$84.50**
 \$8.45 Down

- 12" High Compliance Woofer With Long Throw Voice Coil
- 8" Sealed-Back Mid-Range Speaker and Compression Tweeter
- L-C Crossover Network and High Frequency Level Control
- Acoustic-Lined Sealed Enclosure In Choice of 3 Finishes

Superbly designed, ultra-compact 3-way high-compliance speaker system at surprisingly low cost. Consists of a hermetically sealed bookshelf-type enclosure, 12" high-compliance woofer, 8" mid-range unit, and high-frequency tweeter assembly—completely wired and assembled. In addition, this novel speaker system contains an L-C crossover network and an L-pad high-frequency level control. Brilliantly engineered to perform beautifully in either a low-boy or high-boy position. Perfect choice for limited-space applications—ideal for use in pairs for stereo reproduction.

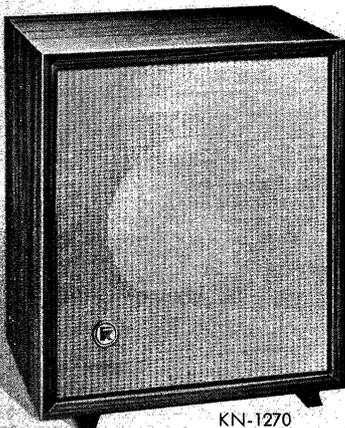
The 12" high-compliance woofer has a long-throw voice coil which permits 1" linear excursions for exceptional bass response; features virtually free-cone suspension. Features a 1¼ lb., high efficiency Indox V ceramic magnet for high flux density. An 8" mid-range, cone-type speaker is self-enclosed in a metal casing. The high-frequency assembly consists of a compression driver with integral exponential horn for wide-angle dispersion. An encased L-C crossover network (6 db per octave) has crossover points at both 800 cps and 3500 cps. L-pad control provides treble balance. Complete system has a frequency response of 40-19,000 cps.

Enclosure is constructed of ¾" wood, finished on four sides in hand-rubbed, fine furniture veneers. Natural beige, plastic grille cloth. System handles 20 watts; 40 watt peaks. 16 ohms. HWD: 13 7/8"x26 3/4"x12 3/4". The enclosure and components of this fine system are not available separately. Specify mahogany, limed oak or walnut. Shpg. wt., 45 lbs.
 79 DU 258C. NET 84.50

CHECK THESE NEW DESIGN FEATURES

- ① Sealed Enclosure
- ② 8-Inch Mid-Range
- ③ 12-Inch Woofer
- ④ Tweeter Assembly

- Ultra-compact, tightly sealed, acoustically damped enclosure. Finished on four sides in hand-rubbed furniture veneers.
- Quality constructed special-design 8" mid-range speaker—self-enclosed at rear in metal casing.
- 12" high-compliance woofer—has long-throw, edge-wound ribbon voice coil for rich bass response.
- Compression high-frequency driver with integral exponential horn and wide-angle dispersion.



KN-1270

Assembled knight KN-1270 Reflex Enclosure

NET **\$26.50**
 \$2.65 Down

- Delivers Smooth High-Fidelity Response
- Sturdy 5/8" Selected Plywood Construction
- Compactly Designed for Limited-Space Use
- Choice of 3 Handsome Wood-Grained Finishes

Extremely attractive, low-cost, factory-assembled bass-reflex enclosure for 12" speakers. Delivers remarkably smooth bass reproduction. Compact—perfect for use in limited-space applications; ideal for use in pairs in economical stereo systems. Only 24x19 1/4 x 13 3/8". Choice of three wood-grained finishes. Specify mahogany, limed oak or walnut. Shpg. wt., 40 lbs.
 79 DU 270C. NET 26.50

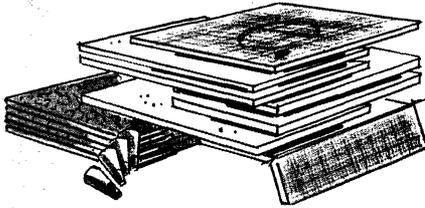
82 D 298. Reducing Ring. For mtg. 8" spkr. 1 lb. NET 89c

COMBINATION SAVINGS. Specify mahogany, limed oak or walnut.

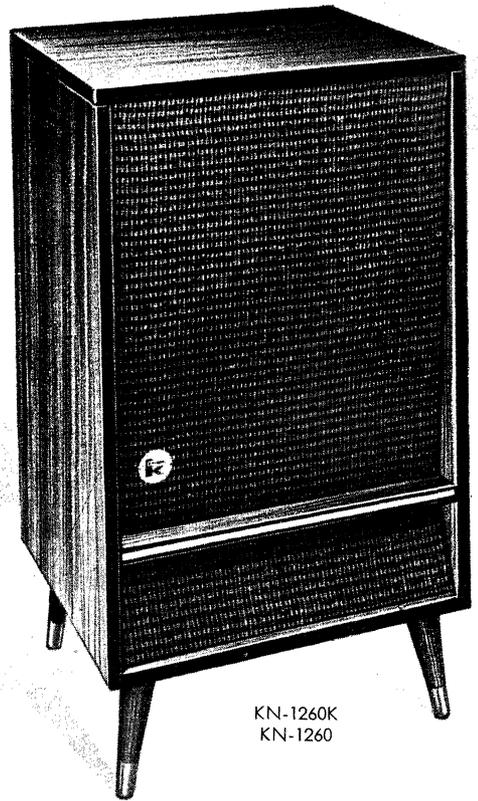
Stock No.	Description	Lbs.	Save	NET
79 DZ 271C	KN-1270/KN-800 Speaker Installed	52	\$7.00	64.45
79 DU 272C	KN-1270/KN-808 Speaker Installed	47	\$3.00	33.45

knight ENCLOSURES, KITS AND SPEAKER SYSTEMS

Knight speaker enclosures and speaker systems, in kit form or factory assembled, provide you with a combination of expert craftsmanship and superb styling—at lowest cost.



Assembly is a marvel of simplicity. All pre-finished panels fit together quickly and easily. The grille cloth comes pre-fitted and attached. A screwdriver is all you need!



KN-1260K
KN-1260

NEW knight KN-1260K Ducted-Port Pre-Finished Speaker Enclosure Kit

NET
\$36.50
\$3.65 Down

Easy-to-assemble, pre-finished enclosure kit for 12" speakers. Employs ducted-port design for performance equal to conventional bass reflex enclosures of much greater size. Its many features include: tight tongue-and-groove joints; non-resonant panels for superior acoustical characteristics; hand-rubbed, satin-lacquered fine furniture veneers; removable tweeter adapter board; smart, contemporary styling; precision-worked parts that fit together securely. Quickly assembled with a screwdriver. With all parts. Size, 32x17 1/2x15". Specify mahogany, limed oak or walnut. Shpg. wt., 35 lbs.

79 DU 261C. NET..... 36.50

MODEL KN-1260. Speaker enclosure described above, but factory assembled. Specify choice of mahogany, limed oak or walnut when ordering. Shpg. wt., 35 lbs.

79 DZ 260C. Only \$4.65 Down. NET..... 46.50

SPEAKER SYSTEM. Save \$8.00 on this combination. Consists of factory-assembled KN-1260 enclosure and Knight KN-800 12" 3-way speaker installed. Specify mahogany, limed oak or walnut. Shpg. wt., 47 lbs.

79 DZ 268C. Only \$8.35 Down. NET..... 83.45

SPEAKER SYSTEM KITS

Pocket big savings of \$8.00 on ducted-port speaker system kits featuring superior Knight components. See pages 56 and 57 for complete descriptions of Knight high-fidelity speakers. Specify choice of mahogany, limed oak or walnut when ordering.

KN-1260K WITH KN-800 12" 3-WAY SPEAKER. 52 lbs.
79 DZ 262C2. Only \$7.35 Down. NET..... 73.45

KN-1260K WITH KN-812 12" 3-WAY SPEAKER. 74 lbs.
79 DZ 269C2. Only \$9.80 Down. NET..... 98.00

knight KN-1250K Folded-Horn Speaker Enclosure Kit

NET
\$49.50
\$4.95 Down

- Accommodates Either a 12" or 15" Speaker and Tweeters
- Folded Corner Horn Design for Superb Bass Response
- Handsomely Styled, Pre-Finished Exterior and Trim
- Choice of Three Beautiful Hand-Rubbed Furniture Veneers

An exceptionally fine value in a pre-finished speaker enclosure kit. Ideal for use with either a 12" or 15" speaker; has rectangular cutout with adapter board for any tweeter (two can be mounted). Perfect for placement in any corner. Features rigid construction to eliminate resonance. Two brush-brass trim strips are attached. A recessed base is provided. Plastic Saran grille cloth is attached and speaker bolts are in place—only a screwdriver is required for easy assembly. Includes all parts, hardware and instructions. 33 1/2x22 3/4x15 1/4". Specify mahogany, limed oak or walnut veneer when ordering. Shpg. wt., 45 lbs.

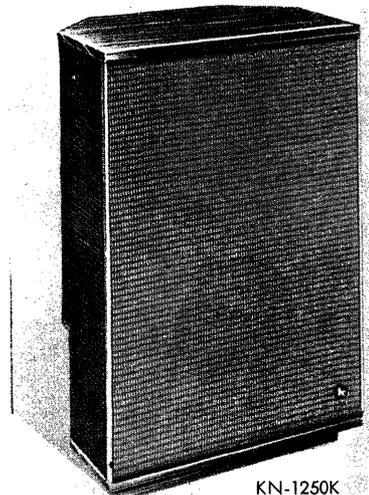
79 DU 251C. NET..... 49.50

MODEL KN-1250 SPEAKER ENCLOSURE. As above, but factory-assembled. Less speaker. Specify finish. Shpg. wt., 45 lbs.

79 DZ 250C. Only \$6.45 Down. NET..... 64.50

SPEAKER SYSTEMS. Enclosure kit with 3-way speaker—at added savings. KN-800, 12"; KN-810, 15". Available in choice of mahogany, limed oak or walnut—specify when ordering.

Stock No.	Description	Lbs.	Save	NET
79 DZ 273C2	KN-800 Spkr. & KN-1250K Encl. Kit	57	\$6.00	88.45
79 DZ 274C2	KN-810 Spkr. & KN-1250K Encl. Kit	60	6.00	98.45



KN-1250K
KN-1250

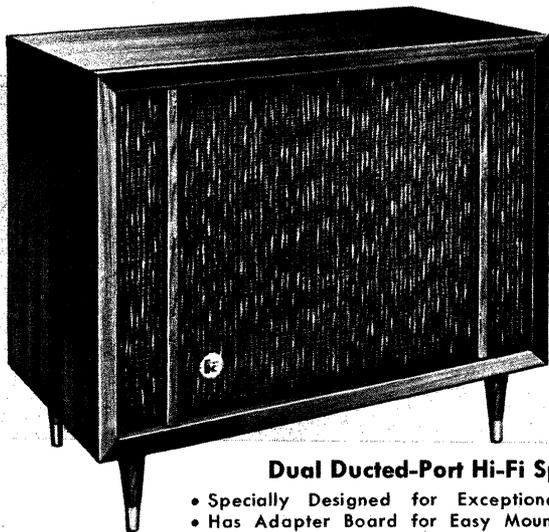


NEW knight Matching Speaker and Equipment Cabinets

- Assembled or Easy-To-Build Kit Form
- Choice of Three Hand-Rubbed Veneers
- Expertly Designed by Master Craftsmen
- Complements Any Contemporary Motif
- Rigid Tongue-and-Groove Construction
- Takes 12" or 15" Speaker

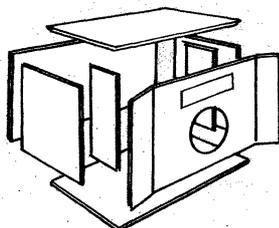


MATCHES ANY DECORATIVE SCHEME



KN-1215
KN-1215K

Assembles quickly—a screw-driver is all you need



Dual Ducted-Port Hi-Fi Speaker Enclosure

- Specially Designed for Exceptionally Smooth Bass Response
- Has Adapter Board for Easy Mounting of Tweeter Components

AS LOW AS
\$49⁵⁰

Kit Model

A striking example of distinctive styling and superb craftsmanship, the KN-1215 enclosure will accommodate any 12" or 15" speaker. Also available in easy-to-assemble, pre-finished kit form—a screwdriver is all you need! Employs dual ducted-port design for exceptionally smooth, low distortion bass response. Rigidly constructed—features extra-dense, vibration-resistant $\frac{3}{4}$ " panels for optimum performance. Has unusually attractive appearance—lustrous, hand-rubbed, fine furniture veneers; beautiful, bouclé-weave grille cloth; and ultra-smart tapered legs with brass ferrules to accent room decor. Complete with adapter board for mounting of tweeter components.

Size: 27x32x16". Choice of mahogany, limed oak or walnut—specify. Shpg. wt., 75 lbs.

79 DZ 265C. KN-1215K Enclosure Kit. NET. 49.50

79 DZ 264C. KN-1215 Assembled Enclosure. NET. 69.50

SPEAKER-ENCLOSURE COMBINATIONS. Knight enclosure in assembled or kit form with Knight 12" or 15" 3-way speaker (see page 56)—at big savings. *Speaker installed. Available in mahogany, limed oak or walnut—please specify.

Stock No.	Description	Lbs.	Save	NET
79 DZ 255C-2	KN-1215K Kit and KN-800	87	6.00	88.45
79 DZ 257C-2	KN-1215K Kit and KN-810	90	6.00	98.45
79 DZ 254C	KN-1215 and KN-800*	87	12.00	102.45
79 DZ 256C	KN-1215 and KN-810*	90	12.00	112.45

Deluxe Hi-Fi Components Cabinet

AS LOW AS
\$49⁵⁰ Attractively styled to blend with the decor of any room, the Knight KN-1400 equipment cabinet is available fully assembled or in pre-finished kit form.

Kit Model

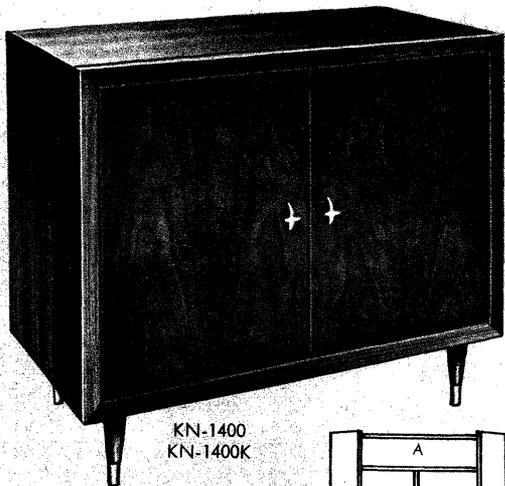
Combines versatility with functional design; houses all components of a music system—record changer on base (compartment B), tuner and amplifier (A); records (C)—everything except the speaker! Rigidly constructed of beautifully matched panels with highly durable finish.

Features include: exceptionally rigid construction; durable, tongue-and-groove joints; carefully selected woods; smartly tapered legs with brass ferrules; easy-grip, brass door handles; vented rear panel to permit free flow of air; lustrous, hand-rubbed furniture finish in choice of three handsome veneers; and three compartments protected by full-length doors employing smooth-action, magnetic latches.

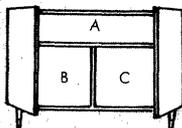
Size of compartments: A—6x32½x14½"; B—13x18¼x14½"; and C—13x13½x14½". Overall size of cabinet: HWD, 27x33½x16". In mahogany, limed oak or walnut—specify when ordering. Shpg. wt., 65 lbs.

79 DZ 267C. KN-1400K Cabinet Kit. NET. 49.50

79 DZ 266C. KN-1400 Assembled Cabinet. NET. 69.50



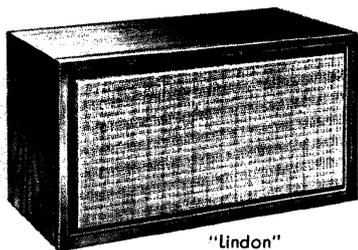
KN-1400
KN-1400K



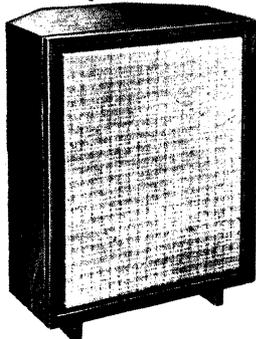
Beautifully finished by professional craftsmen

HI-Fi Components are Available on Easy Terms—See Page 444

NEW E-V WOLVERINE Speakers, Enclosures and Systems



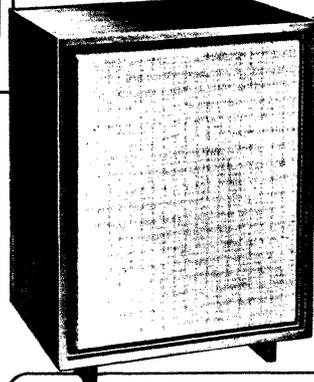
"Lindon"



"Lorraine"



"Lancaster"



Introducing Electro-Voice's "Wolverine" series of moderately-priced hi-fi speaker enclosures, systems and speaker components. Top-quality features of speakers include: heavy-duty, die-cast frame to maintain precision centering of voice coil; Radax design for wide-range reproduction; edgewise-wound voice coil for high efficiency; moisture-proofed, fungi-resistant cone for dependable service. Tastefully styled, custom-crafted enclosures are manufactured from fully cured, selected woods.

"LINDON" ENCLOSURE

Ultra-compact, smartly styled speaker enclosure. Only 11" high, 23½" wide and 10" deep—perfect for mounting on a bookshelf or record shelf. Direct radiator design provides excellent bass response. Ideal for use with E-V LS-8 8" speaker and HF-1 high-frequency kit below. Features pre-cut mounting board for quick, easy installation of speaker and high-frequency kit. Finished on four sides to permit placement anywhere. Choice of three wood-grained finishes to complement any decorating motif. Use two for stereo—ideal where space is limited. Specify mahogany, blonde, or walnut when ordering. Shpg. wt., 16 lbs.

82 DU 856C. NET..... 34.50

"LORAINÉ" ENCLOSURE

Folded-horn corner enclosure featuring compact design, handsome styling, and ready adaptability to present or future speaker components. Ideal for use with LS-12 12" speaker, plus MF-1 and HF-1 mid-range and treble components listed below. Includes adapter to permit mounting of 8" speaker. Has pre-cut mounting ports for easy installation of tweeters. Sturdy plywood construction. Available in choice of three wood-grained finishes. Overall size: 27" high, 20" wide and 14" deep. Specify mahogany, blonde or walnut finish when ordering. Shpg. wt., 23 lbs.

82 DU 855C. NET..... 48.00

"LANCASTER" ENCLOSURE

Attractively styled, space-sparing enclosure for lowboy or highboy use. Ideal for along-the-wall placement. Delivers impressive performance when used with Electro-Voice's LS-12 12" speaker, plus HF-1 and MF-1 components listed below. Includes adapter to permit use with 8" speaker. Features direct radiator, controlled baffle for extended bass. Also has snap-in speaker mounting board and pre-cut ports for easy installation of speakers. Sturdy plywood construction; handsome wood-grained finish. Ideally suited for use in pairs in stereo high-fidelity systems where space limitations are present. Complete with removable, runner-type legs. Accepts LK-1 leg kit below. Size (HWD): 25x20x14". In choice of mahogany, blonde or walnut—specify when ordering. Wt., 24 lbs.

82 DU 854C. NET..... 48.00

LK-1 LEG KIT

Set of four legs for optional use with "Lancaster," above. Slim, gracefully tapered styling complements handsome appearance of enclosure. Legs are pre-drilled for quick, simple installation. Kit includes completely finished legs, all necessary hardware and instructions for mounting. In choice of three finishes. In choice of mahogany, blonde or walnut finish—specify when ordering. 21" high. Shpg. wt., 4 lbs.

82 D 857C. NET PER SET..... 8.00

Speaker Systems

"LANCASTER" AND LS-12. Smartly styled, space-sparing speaker system. Includes enclosure described at left and full-range 12" speaker, below. Comes complete with speaker installed. Choice of 3 wood-grained finishes to blend with any surroundings. Specify mahogany, blonde, or walnut. Shpg. wt., 29½ lbs.

82 DU 858C. NET..... 67.50

"LORAINÉ" AND LS-12. Excellent speaker system for corner placement. Includes enclosure (left) and 12" speaker (below). Supplied complete with speaker installed. Available in choice of three handsome wood-grained finishes. Specify choice of mahogany, blonde or walnut. Shpg. wt., 28½ lbs.

82 DU 859C. NET..... 67.50

"LINDON" AND LS-8. Ultra-compact speaker system featuring enclosure described at left and 8" speaker below. With speaker installed. Available in 3 lustrous, wood-grained finishes to match any decorative mode. Specify mahogany, blonde or walnut. Shpg. wt., 20½ lbs.

82 DU 860C. NET..... 52.50

Full-Range Speakers, Tweeters and Crossover Kits

LS-12 12" SPEAKER. Moderately-priced 12" high-fidelity speaker. Provides very clean, smooth frequency response over the range of 30 to 13,000 cps. Ideal for use with "Lancaster" and "Lorraine" listed above.

Has features found in more expensive speakers. A heavy-duty, die-cast frame maintains precision alignment of critical parts. Radax construction (separate radiator cone for treble) provides crisp, full-range sound. Edgewise-wound voice coil for high efficiency. Additional features include a reinforced fiberglass voice-coil form and fungi-resistant cone material.

Power handling capacity, 20 watts. Cone resonance, 40 cps. Impedance, 8 ohms. 12¼" diameter, 3½" deep. Requires 11" baffle opening. Shpg. wt., 5¼ lbs.

82 DX 850. NET..... 19.50

LS-8 8" SPEAKER. Excellent full-range 8" high-fidelity speaker. Has same quality features as the LS-12 above. Ideal for use with all enclosures listed above. Also excellent for limited-space hi-fi systems or for use as hi-fi system extension speaker. Frequency response, 50-13,000 cps. Cone resonance, 55 cps. Power handling capacity, 20 watts. Voice coil impedance, 8 ohms. Size: 8¾x3½". Requires 7½" baffle opening for mounting. Shpg. wt., 4½ lbs.

82 D 851. NET..... 18.00

MF-1 MID-RANGE KIT. Excellent mid-range components for use in high-fidelity 3-way speaker systems. Can also be used as a tweeter in 2-way speaker systems. Consists of the efficient MR-10 horn and the CR-10 crossover network with level control.

Ideally suited for installation in "Lancaster" and "Lorraine" speaker systems and enclosures listed above. Provides remarkably smooth response from 1000 to 15,000 cps.

Power handling capacity, 20 watts; peak capacity, up to 40 watts. Wide-angle dispersion, 180°. Impedance, 8 ohms. Horn size, 4" long by 10½" wide. Crossover size, 3¼x3x2½". Shpg. wt., 5 lbs.

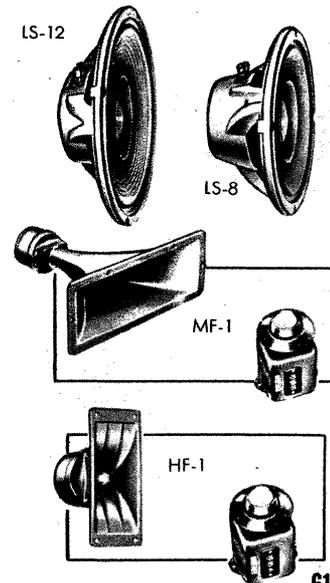
82 DX 852. NET..... 25.00

HF-1 HIGH-FREQUENCY KIT. Quality high-frequency components at moderate cost. Consists of Model TW-35 wide-angle, horn-type tweeter and Model CR-35 3500-cycle crossover network with level control.

Perfect for use in 2-way or 3-way speaker systems. Delivers outstanding results with other "Wolverine" speaker components; fits all enclosures listed above. Provides crisp, clear treble response from 3500 to 18,000 cps.

Capacity, 50 watts (100 watts peak). Dispersion, 180°. Imp., 8 ohms. 5¼x2x3¼". Crossover, 3¼x3x2½". Wt., 3 lbs.

82 D 853. NET..... 20.00

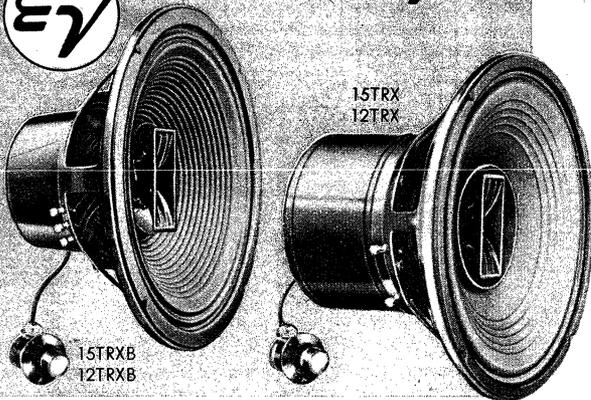




Electro-Voice

HI-FI SPEAKERS & WOOFERS

TRX 3-Way Hi-Fi Speakers



Employ three concentrically mounted sections—Super Sonax VHF-driver, Radax propagator, and large bass cone with double power Index V ceramic magnet, for a superb standard of high-fidelity performance. Deliver vibrant bass, full-bodied mid-range response and ultra-clean treble. TRX speakers have a well-established reputation for extraordinary reproduction.

Feature concentric mounting of all elements for wide-angle dispersion; adjustable high-frequency level control for precise regulation of tweeter; electrical crossover network for automatically dividing audio between woofer and tweeter sections of TRX 3-way speaker.

Provide 18% more efficiency and lower transient distortion through use of a specially designed edgewise-wound voice coil. Excellent for use in custom high-fidelity installations or for modernization of existing systems. All TRX speakers have a 16-ohm impedance.

MODEL 15TRXB. Moderate cost high-fidelity 15" speaker employing 1 3/8 lb. double power Index V ceramic magnet. Total flux: 100,000 maxwells. Features 3-way concentric-mounted sections consisting of a Radax-type speaker with "Whizzer" high-frequency propagator, T35B "Super Sonax" VHF tweeter, and HF level control. Response, ±3 1/2 db, 30-18,000 cps (in Regency or Empire Enclosure). Power handling capacity, 20 watts. Resonance, 38-48 cps. Impedance, 16 ohms. 7 5/8" depth. Shpg. wt., 17 lbs.
81 DX 761. NET.....77.42

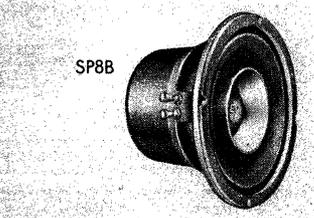
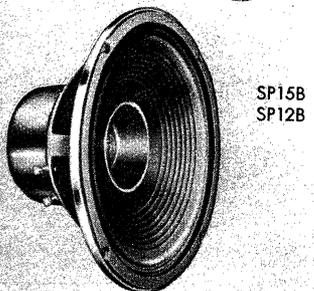
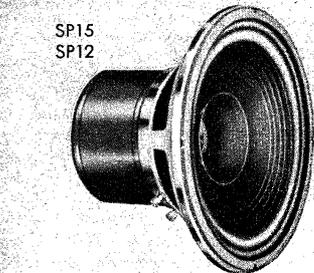
MODEL 12TRXB. 3-way speaker as above, but 12". Has 1 3/8 lb. double power Index V ceramic magnet (total flux: 100,000 maxwells), Radax-type speaker, T35B tweeter, and brilliance control. Power handling capacity, 20 watts. Frequency response (in Aristocrat enclosure). ±3 1/2 db, 35-18,000 cps. 6 1/8" depth. Impedance, 16 ohms. Shpg. wt., 14 lbs.
81 DX 239. NET.....64.68

MODEL 15TRX. E-V's finest, custom-engineered 3-way speaker. Uses extra-large 5 3/4-lb. double power Index V ceramic magnet. Total flux: 244,000 maxwells. Consists of Radax-type 15" speaker with "Whizzer" high-frequency propagator; T35 "Super-Sonax" very-high-frequency tweeter; X36 K crossover network; and the AT37 HF level control. Uses 2 1/2" aluminum voice coil. Response, ±3 1/2 db, 30-19,000 cps (in Regency or Empire enclosure). 35-45 cps. 30 watts. 9 1/4" depth. 16 ohms. Shpg. wt., 43 lbs.
81 DU 235. NET.....146.02

MODEL 12TRX. As above, but 12". Has 3 1/2 lb. double power Index V ceramic magnet. Total flux: 176,000 maxwells. Radax-type speaker, T35 tweeter, X36 crossover network, and AT37 HF control. Frequency response, ±3 1/2 db, 30-19,000 cps (in Aristocrat enclosure). Power handling capacity, 25 watts. Depth, 8". Impedance, 16 ohms. Shpg. wt., 30 lbs.
81 DU 236. NET.....122.50

Top-Quality Radax Coaxial Hi-Fi Speakers

Electro-Voice's radax principle provides highly efficient and economical method of using two concentrically mounted cones operating from single voice coil. Built-in mechanical crossover from low-frequency cone to high-frequency propagator permits design of each cone for optimum response.



MODEL SP15. Deluxe 15" Radax speaker with 2 1/2" aluminum voice coil. Provides exceptionally fine bass, mid-range and treble reproduction. Ideal for home music systems. 5 1/4-lb. double power Index V ceramic magnet (total flux: 244,000 maxwells) provides good damping, superb transient response and remarkably distinct bass. Resonance of bass cone, 35-45 cps. Bass cone is directly coupled to "Whizzer" HF radiator. Insures 100° treble dispersion. Frequency response, ±5 db, 30-13,000 cps. Rated, 30 watts. 16 ohms. Crossover, 3000 cps. Requires 13 1/2" dia. baffle opening; 9" depth behind mtg. panel. Shpg. wt., 38 lbs.
81 DU 280. NET.....87.22

MODEL SP15-B. 15" Radax speaker similar to above, except for smaller 1 lb. magnet and 20-watt power capacity. Total flux: 100,000 maxwells. Response characteristics—30-13,000 cps. Seamless molded type bass cone directly coupled to "Whizzer" HF radiator. Insures very wide dispersion—extends treble 2 full octaves. Crossover, 3500 cps. Resonance, 38-48 cps. Impedance 16 ohms. Requires 13 1/2" baffle opening; 7 5/8" depth behind mounting panel. Shpg. wt., 15 lbs.
81 DX 760. NET.....42.14

MODEL SP12. Popular, moderately-priced 12" speaker with 3000 cps crossover. Bass cone resonance, 35-45 cps. Uses "Whizzer" high-frequency, wide-dispersion radiator for extended treble, 100° dispersion. Has highly efficient 3-lb. Alnico V magnet. Total flux: 176,000 maxwells. Response, ±5 db, 30-13,000 cps. 2" aluminum voice coil. Rated, 25 watts. Impedance, 16 ohms. 7 3/4" depth. Shpg. wt., 23 lbs.
81 DU 279. NET.....64.68

MODEL SP12B. 12" speaker as above, but 1-lb. ceramic magnet. Flux: 100,000 maxwells. Considered a "best buy" by many hi-fi publications. Capacity, 20 watts. Resonance, 40-50 cps. Response, ±5 db, 30-13,000 cps. 16 ohms impedance. Crossover, 3500 cps. 6" depth. Wt., 12 lbs.
81 DX 278. NET.....34.30

MODEL SP8B. 8" version of above. Excellent for limited space hi-fi applications. Low cone resonance of 65-75 cps and "Whizzer" high-frequency propagator provide good balance. 1-lb. magnet. Total flux: 100,000 maxwells. Capacity, 20 watts. Response, ±5 db, 50-13,000 cps. Crossover frequency, 4000 cps. 16 ohms impedance. 4 5/8" depth. Shpg. wt., 9 lbs.
81 D 277. NET.....28.91

Low-Frequency Woofers

Featured in Electro-Voice speaker systems; all have unusually low cone resonance. Can also be used as woofers in custom 2 and 3-way sound systems. Cones employed are treated for moisture and fungus resistance. 12WK and 15WK woofers are recommended for "K" horn and phase-loaded systems only; require sealed cavity behind the driver. *Have 3.2 ohms DC resistance; all others, 16 ohms impedance. Double-power Index V ceramic magnets, †except Alnico V magnets. ‡Magnet weight in lbs.

Stock No.	Mfr's Type	Mag. Wt. ‡	Res. Freq.	Watts	Lbs.	NET EACH
81 DX 397	12BW	1	40-50	20	12	34.30
81 DU 285	†12WK	3	35-45	22	23	64.68
82 DU 801	†*12WK	3	30-40	25	23	64.68
81 DX 762	15BW	1	38-48	20	15	42.14
81 DU 286	15W	5 1/4	25-35	30	38	87.22
81 DU 428	*15WK	5 1/4	29	30	38	87.22

MID-RANGE AND HIGH-FREQUENCY COMPONENTS

High-Frequency Tweeters

MODEL T35 "SUPER-SONAX" VERY-HIGH FREQUENCY TWEETER. Delivers remarkably clean, extended high-frequency response—3500 to 19,000 cps. Adds at least one more octave of highs. Features wide-angle (180°) dispersion horn; cutoff, 1500 cps. Uses molded-phenolic impregnated, linen diaphragm. Use with X36 crossover and AT37 level control. For systems rated at 20 watts or over. Crossover, 3500 cps. Impedance, 16 ohms. Horn size; 5/4" long by 2" wide. Pot size, 2 1/4" diameter, 3/4" deep overall. Less Model AT37 level control and Model X36 crossover network (listed below). Shpg. wt., 3 lbs.
81 D 434. NET..... 34.30

MODEL T35B VHF TWEETER. Same as Model T35 above but for systems with speakers rated under 20 watts. Has molded-phenolic impregnated, linen diaphragm. Dispersion, 180°; cutoff, 1500 cps. Impedance, 16 ohms. X36 crossover network required (see listing, below). Pot size, 2 1/4" diameter; 3" depth overall. Shpg. wt., 3 lbs.
81 D 432. NET..... 21.56

Mid-Range Horns, Drivers and Crossover Networks

MODEL T10A HIGH-FREQUENCY DRIVER. For ultra-clean, extended response. Use with 8HD or 6HD HF diffraction horn and crossover network. ±5 db. 400-13,000 cps. 25 watts. 16 ohms. 12-oz. magnet. 5/4" dia., 3 3/4" deep. Throat, 7/8". 7 lbs.
81 D 424. NET..... 41.65

MODEL T25A HIGH-FREQUENCY DRIVER. Phenolic-impregnated, linen diaphragm for added strength. Use with 8HD or 6HD horn, plus crossover network. Response, ±5 db. 400-13,000 cps. 30 watts. 16 ohms. 1-lb. magnet. 5/4" dia. 4 3/4" deep. Throat dia., 7/8". Shpg. wt., 9 lbs.
81 D 288. NET..... 56.84

MODEL T250 HIGH-FREQUENCY DRIVER. For maximum efficiency systems. Use with 8HD or 6HD HF horn and crossover network. 400-13,000 cps. 35 watts. 16 ohms. 5/4" dia., 5 1/4" deep. Throat, 7/8". 9 lbs.
82 DX 800. NET..... 79.38

MODEL AT37 LEVEL CONTROL. 16-ohm L-pad, for adjustment of mid-range and tweeter output. Mahogany finish. 6 oz.
81 D 437. NET..... 3.82

MODEL AT37B LEVEL CONTROL. As above, but for blonde cabinets.
81 D 838. NET..... 3.82

MODEL T350 VERY-HIGH FREQUENCY DRIVER. Ideal for use in deluxe multi-way speaker systems having extended bass range. Provides extended treble response beyond audibility. Employs diffraction horn principle with special Avedon Sonophase throat design for 180° dispersion pattern. Capacity, 50 watts; handles 100-watt peaks. Impedance, 16 ohms. Frequency response: ±2 db, 2000 to 21,000 cps. Magnet wt., 1 lb. Recommended crossover, 3500 cps. Horn is 7 1/2" long, 2 7/8" wide. Pot dia., 3 1/2". Overall depth, 4 1/2". Shpg. wt., 8 lbs.
82 DX 337. NET..... 58.80

MODEL T3500 "IONOVAC" IONIZED AIR, VERY-HIGH FREQUENCY TWEETER. Employs ionized air for dazzling reproduction of treble frequencies. Frequency response: ±2 db, 2000 to 40,000 cps. Recommended crossover, 3500 cps. Dispersion pattern, 180°. Power capacity, 50 watts; handles 100-watt peaks. 16 ohms. Driver assembly, 9x3 1/2x7"; electronic unit, 5 1/2x5x13 1/2". Baffle opening, 1 1/2x6". 15 lbs.
82 DU 338. NET..... 147.00

MODEL 8HD DIFFRACTION HORN. For use with T10A, T25A or T250 drivers. 600 cycle cutoff, 800 cycle crossover frequency. Rugged, die-cast construction. Size, 15x4 1/2x8 1/4". Shpg. wt., 4 lbs.
81 D 429. NET..... 17.64

MODEL 6HD DIFFRACTION HORN. Popular horn for T10A, T25A or T250 drivers. Utilizes 400 cps cutoff, 600 cps crossover. Constructed of fiberglass. Size, 20x3 1/2x12 1/2". Shpg. wt., 6 lbs.
81 DX 491. NET..... 21.56

CROSSOVER NETWORKS. Attenuation, 12 db per octave in 1/2-section types; 6 db in 1/4-section types. Impedance, 16 ohms. All crossover networks are half-section types, except X825, 1/4; X2635, 1/4 and 1/2.

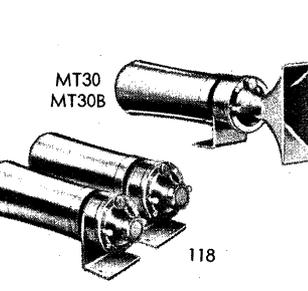
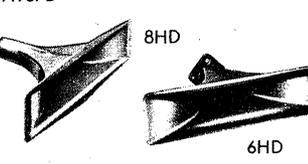
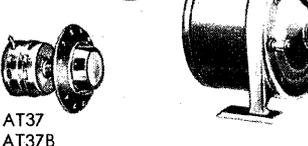
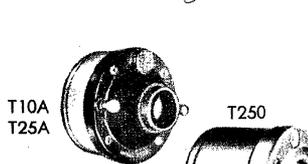
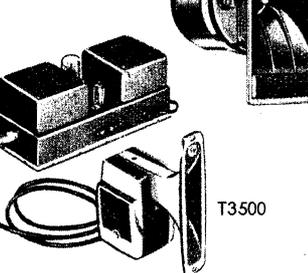
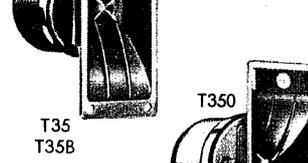
Stock No.	Mfr's Type	Crossover	Wt. Lbs.	NET EACH
82 D 802	X325	300	4	31.36
81 D 415	X825	800	3	18.62
81 D 293	X8	800	6	31.34
81 D 416	X6	600	6	38.22
81 D 289	X336	300-3500	9	38.22
81 D 436	X36	3500	3	9.31
81 D 404	X2635	200-600-3500	10	73.50

Mid-Bass and Treble Driver-Horn Assemblies

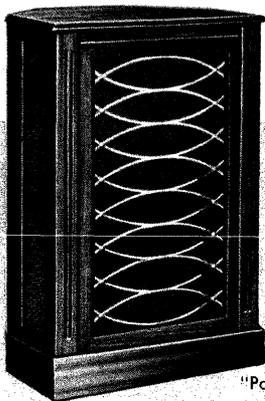
MODEL MT30. Consists of 828HF coaxial driver, treble horn, mid-bass horn sections and angle throat. Use with high-efficiency speakers and phase-loaded systems. Response, 200-10,000 cps (in recommended 200-cycle horn). 30 watts. 16 ohms. 3/4-lb. magnet. 2 1/2" long, 6 1/2" high. 10 lbs.
82 DX 339. NET..... 42.14

MODEL MT30B. As above, but has 828 HFB driver. 20 watts. 1/2 lb. magnet. For use with medium-efficiency speakers and systems. Shpg. wt., 10 lbs.
82 DX 340. NET..... 34.30

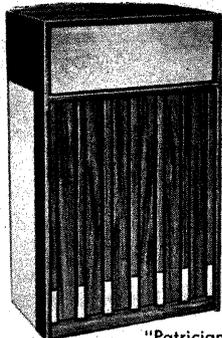
MODEL 118 MID-BASS DUAL-DRIVER ASSEMBLY. A mid-bass, dual-driver assembly for use in the Patrician and other deluxe speaker systems. Expertly engineered to deliver exceptionally smooth reproduction in the mid frequencies. Includes two Model 828HF drivers, two mid-bass horn sections, and all mounting accessories. Response when used in recommended 200-cycle horn, 150 to 1000 cps. Power handling capacity, 30 watts; 60-watt peaks. Impedance, 16 ohms. Size, 2 1/2" long, 6 1/2" high for clearance. Shpg. wt., 15 lbs.
82 DX 341. NET..... 76.44



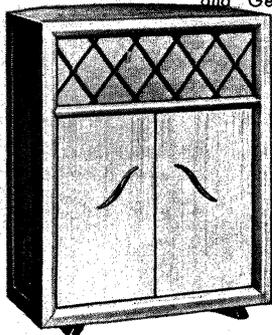
MID-RANGE AND HIGH-FREQUENCY COMPONENTS PACKAGES				
Stock No.	Type	Description of Components	Lbs.	NET
81 D 835	BB1	For 2-way systems (LF driver with treble driver), and coaxial speakers having 1-2-lb. magnets. Includes T35B VHF driver, X36 crossover, AT37 level control, wiring harness.	5	36.26
81 D 858	BB2	For 2-way systems (LF driver with treble driver), and coaxial speakers having 3-lb. magnets or greater. Includes T35 VHF driver, X36 crossover, AT37 level control, wiring harness.	5	49.00
81 DU 834	BB3	For existing LF drivers and coaxial speakers having 1-2-lb. magnets. Includes T10A driver, 8HD horn, X825 crossover, AT37 level control, wiring harness.	11	84.28
81 DU 859	BB4	For existing LF drivers and coaxial speakers having 3-lb. magnets or greater. Includes T25A driver, 8HD horn, X8 crossover, AT37 level control, wiring harness.	13	111.72
82 DX 342	BB5	Adds very high frequencies with wide dispersion. For systems having extended bass ranges such as Patrician IV, Georgian 600, Cardinal IV, Centurion IVE, etc. Includes T350 UHF driver, X36 crossover, AT37 level control, wiring harness.	13	73.50
82 DU 345	BB8	For mid-bass and treble frequencies from 200 to 10,000 cps. Ideal for use with deluxe full-range drivers having 3-lb. magnets or more, such as SP12, SP15, 12TRX, 15TRX and high-efficiency systems. Plans for simple plywood horn extension are provided. Includes MT30 driver-horn assembly, X325 crossover, AT37 level control, wiring harness.	15	79.38
82 DZ 804	103E	18WK driver; 118 assembly; T250 HF driver, with 6HD horn; T350 driver; X2635 crossover; 3-AT37 controls. Full-range system as used in Patrician.	105	444.92



"Patrician IV"



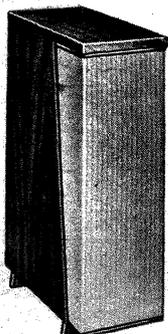
"Patrician 600"
and "Georgian 600"



"Centurion IVE"



"Cardinal IV"



"Stereon IA"
"Stereon III"

XX3 Control
Filter



When you choose Electro-Voice, you choose equipment incorporating the expert engineering and fine craftsmanship that have become famous throughout the world. The name Electro-Voice signifies quality and peerless performance to the discriminating audiophile. Every unit with the well-known E-V symbol will give you top value. Listed here are some of the most outstanding speaker systems available. Each of these incorporates the most advanced design principles, and is superbly styled to complement the finest of furniture.

"Patrician" Speaker Systems

Famous as one of the most distinguished of speaker systems, the "Patrician" by Electro-Voice is offered in a choice of two cabinet styles—traditional "Patrician IV" and contemporary "Patrician 600". Both employ the superior 103E speaker package (see page 63 for full description of package). Beautifully hand-crafted corner enclosures

are of Klipsch-licensed indirect radiator design; each is carefully assembled from selected hardwood veneers and inlays, and exquisitely finished. Power handling capacity is 35 watts, 70-watt peaks. Impedance: 16 ohms. Supplied with components installed. *Shipped F.O.B. Chicago or Dowagiac, Mich., whichever is nearer.*

Stock No.	Model	Speaker Package	Finish	Size (HWD)	Shpg. Wt., Lbs.	NET EACH
79 DZ 323	IV	103E	Mahogany	62x39x29"	390	973.14
79 DZ 324	IV	103E	Limed Oak		390	998.62
79 DZ 325	IV	103E	Walnut		390	998.62
79 DZ 326	600	103E	Mahogany	58½x38x30"	335	825.16
79 DZ 327	600	103E	Limed Oak		335	843.78
79 DZ 328	600	103E	Walnut		335	843.78

"Georgian 600" Speaker System

The luxurious cabinetry of this corner enclosure is skillfully combined with the most advanced audio engineering to give you a superior, integrated 4-way speaker system. In striking contemporary styling, the magnificent "Georgian 600" utilizes the famous Klipsch-licensed "K"-type folded horn for excellent reproduction. Contains an outstanding speaker package for full, faithful reproduction.

by the T350 Ultra-Sonox tweeter, an advanced-design speaker employing an unusually effective horn design. Included are two AT37 controls for separate adjustment of mid-range and high frequency levels to best suit room acoustics. Rated 35 watts program material, 70-watt peaks. Impedance: 16 ohms. Supplied with all components installed. Size (HWD), 48½x28½x25¾". Shpg. wt., 225 lbs. *Shipped F.O.B. Chicago or Dowagiac, Mich., whichever is nearer.*

- 82 DZ 312. Mahogany. NET..... 480.20
- 82 DZ 313. Limed Oak. NET..... 489.02
- 82 DZ 314. Walnut. NET..... 489.02

Includes the 15WK special low-frequency speaker, crossing over at 300 cps through the X336 network to the MT30 mid-bass horn assembly; high frequencies are covered

"Centurion IVE" Speaker System

A complete 4-way speaker system of extraordinary quality—incorporates all design features of the famous "Georgian 600", but on a smaller scale. Styled in a rich traditional motif and carefully finished for exemplary appearance. Employs the Klipsch "K" folded horn, with E-V's deluxe 12-inch indirect-radiator speaker package.

cps. 3500 cps section of X336 feeds T35 tweeter to beyond audibility. Includes two AT37 level controls for presence and brilliance. Rated 30 watts program material, 60 watts peak. Impedance: 16 ohms. All components installed. Size (HWD), 42x29x22½". Shpg. wt., 142 lbs. *Shipped F.O.B. Chicago or Dowagiac, Mich., whichever is nearer.*

- 81 DZ 982. Mahogany. NET..... 357.70
- 81 DZ 983. Limed Oak. NET..... 365.54
- 81 DZ 984. Walnut. NET..... 365.54

A 12WK woofer provides excellent bass response from 30-300 cps. X336 crossover feeds an MT30 coaxial mid-bass and treble assembly with acoustical crossover at 1000

"Cardinal IV" Speaker System

Outstanding speaker ensemble for rounding out the deluxe high-fidelity music system. Bold, clean lines and fine furniture finish complement any decorative mode. Has same top-performance 4-way speaker components as used in the "Georgian 600" system described above; enclosure is similar acoustically to the "Georgian 600". Utilizes the walls of the room as an extension of the folded horn, in place of built-on rear panels.

Rated 35 watts program material, 70-watt peaks. Impedance: 16 ohms. Systems are supplied with all components installed. Size (HWD), 45¾x26¾x23". Shpg. wt., 183 lbs. *Shipped F.O.B. Chicago or Dowagiac, Mich., whichever is nearer.*

- 82 DZ 315. Mahogany. NET..... 416.50
- 82 DZ 316. Limed Oak. NET..... 424.34
- 82 DZ 317. Walnut. NET..... 424.34

NEW Space-Saving "STEREON" Speaker Systems

New, space-saving, dollar-saving method of stereo reproduction uses your present speaker system, plus a "Stereon" for full, breathtaking stereophonic sound. Takes advantage of the fact that no stereo effect exists when listening to tones below 300 cps by directing all bass from both channels to your standard monaural speaker system. Upper range of one channel follows the bass into this system, high range of other channel is fed to the "Stereon". Since it does not have to reproduce low frequencies, the "Stereon" is a compact, inconspicuous unit that can be placed anywhere in your room.

ciency speaker system, such as one with SP15B. Must be used with XX3 control filter, below. 25x7½x17½". Specify mahogany, limed oak or walnut. 33 lbs.

- 79 DU 301C. NET..... 97.51
- "STEREON III". Similar to above, but for high-efficiency system, such as one with an SP15. Has MT30, T35 and 2-AT37 level controls. Must be used with XX3, below. Specify finish. Shpg. wt., 37 lbs.
- 79 DU 302C. NET..... 126.91
- XX3 "STEREON" CONTROL FILTER. Distributes audio to single or multiple "Stereon" system. Input impedance: 8 ohms, each channel. 5½x4¾x5¼". Shpg. wt., 8 lbs.
- 79 D 322. NET..... 29.40

"STEREON IA". Employs MT30B, T35B and 2-AT37 level controls. For normal-eff-

"Regency" Speaker Systems and Enclosures

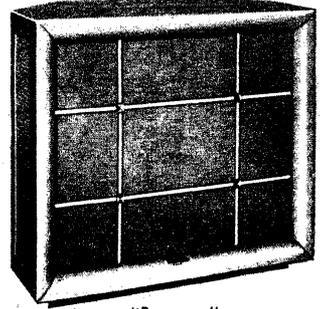
"REGENCY III." Complete 3-way high-fidelity speaker system combining the advantages of folded-horn performance with flexibility of placement. Klipsch-licensed horn design with "built-in" corner allows it to be used against a flat wall or in a corner. In lowboy motif, this highly efficient enclosure enhances any decorative scheme. Speaker components include 15W 15" woofer, T25A HF driver with 8HD horn, T35 VHF driver, X8 and X36 crossovers, and 2—AT37 controls. Impedance: 16 ohms. Rated 30

watts, 60-watt peaks. Size (HWD), 29½x33½x19". Shpg. wt., 135 lbs.

"REGENCY—15TRX." "Regency" enclosure with popular 15TRX 3-way speaker installed. Provides optimum results when placed either in a corner or against a wall of the room. Offers smooth, extended bass response with clear highs to 15,000 cps. 138 lbs.

ENCLOSURE ONLY. Takes 12" or 15" speaker, or 2 or 3-way system. Shpg. wt., 87 lbs.

Finish	ENCLOSURE ONLY		"REGENCY-15TRX"		"REGENCY III"	
	Stock No.	NET EACH	Stock No.	NET EACH	Stock No.	NET EACH
Mahogany	81 DZ 422	127.40	81 DZ 836	273.42	81 DZ 496	385.14
Limed Oak	81 DZ 423	137.20	81 DZ 837	283.22	81 DZ 497	394.94
Walnut	81 DZ 864	137.20	81 DZ 868	283.22	82 DZ 327	394.94



"Regency"

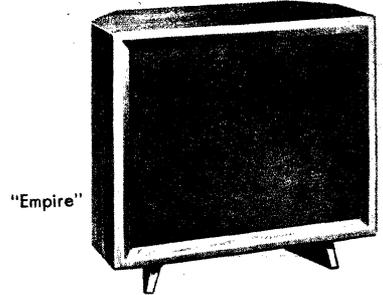
"Empire" Speaker Systems and Enclosures

"EMPIRE IA." 3-way system in tastefully designed Empire lowboy enclosure. Compact, highly efficient folded-horn design provides authentic reproduction of bass frequencies; may be used against wall or in a corner. Components in system include 15BW bass woofer; T10A HF driver with 8HD diffraction horn; T35B VHF tweeter with X825 and X36 crossovers and 2—AT37 level controls. Hand-rubbed veneers. Impedance: 16 ohms. Rated 20 watts, 40-watt peaks. Size: 29½x32x16". Shpg. wt., 90 lbs.

"EMPIRE—SP15B." Here's an excellent starter system, easily expanded; consists of SP15B 15" Radax speaker installed in Empire enclosure. Other components may be added gradually to expand this system to the 2- or 3-way type. Rear of speaker is coupled to folded horn; "Whizzer" element effectively distributes high frequencies. Wt., 71 lbs.

ENCLOSURE ONLY. Takes 12" or 15" speaker, or 2 or 3-way system. Available in 3 handsome finishes. Shpg. wt., 56 lbs.

Finish	ENCLOSURE ONLY		"EMPIRE-SP15B"		"EMPIRE IA"	
	Stock No.	NET EACH	Stock No.	NET EACH	Stock No.	NET EACH
Mahogany	81 DZ 769	97.02	81 DZ 832	139.16	81 DZ 765	269.50
Limed Oak	81 DZ 770	106.82	81 DZ 833	143.08	81 DZ 766	276.36
Walnut	81 DZ 863	106.82	81 DZ 867	143.08	82 DZ 328	276.36



"Empire"

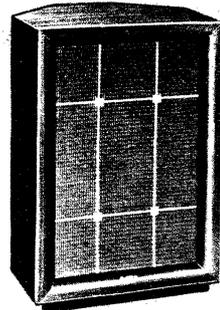
"Aristocrat" Speaker Systems and Enclosures

"ARISTOCRAT III." Deluxe 3-way system in compact "Aristocrat" folded-horn corner enclosure. Selected speaker components provide unusually fine music reproduction. Speaker components are 12W 12" bass woofer; T25A HF driver with 8HD diffraction horn; T35 Super-Sonax tweeter; X8 and X36 crossovers and 2—AT37 level controls. Imp., 16 ohms. Rated 25 watts, 50-watt peaks. 29½x19x16½". Shpg. wt., 74 lbs.

"ARISTOCRAT—12TRXB." Top-quality system using the highly popular 12TRXB 12" 3-way speaker; adjustable high-frequency control for matching of system to individual room acoustics. Covers entire audible range. Shpg. wt., 58 lbs.

ENCLOSURE ONLY. Takes 12" speaker, or 2 or 3-way system. Available in 3 handsome finishes. Shpg. wt., 44 lbs.

Finish	ENCLOSURE ONLY		"ARISTOCRAT-12TRXB"		"ARISTOCRAT III"	
	Stock No.	NET EACH	Stock No.	NET EACH	Stock No.	NET EACH
Mahogany	81 DZ 295	70.56	81 DZ 756	135.24	81 DZ 439	305.58
Limed Oak	81 DZ 296	77.42	81 DZ 757	142.10	81 DZ 442	312.62
Walnut	81 DZ 862	77.42	81 DZ 865	142.10	82 DZ 329	312.62



"Aristocrat"

NEW "Marquis" Speaker Systems and Enclosures

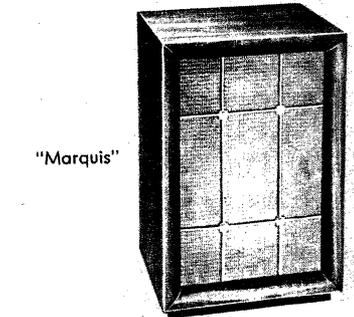
"MARQUIS IA." Enjoy outstanding high-fidelity reproduction with this along-the-wall counterpart of the popular Aristocrat. Carefully constructed of selected hardwood veneers, expertly finished. Has vertical porting slots for bass response extended down to 40 cps. 3-way system components include 12BW woofer, T10A high-frequency driver with 8HD diffraction horn, T35B tweeter, X825 and X36 crossovers, and 2—Type AT37 level controls. Impedance: 16

ohms. Rated 20 watts program material, 40-watt peaks. Size (HWD), 29½x19x14½". Shpg. wt., 85 lbs.

"MARQUIS—12TRXB." "Marquis" enclosure with the well-known 12TRXB three-way speaker. Provides sharp, clean response to beyond audibility. Includes brilliance control. Shpg. wt., 64 lbs.

ENCLOSURE ONLY. Takes 12" speaker, or 2 or 3-way system. Shpg. wt., 50 lbs.

Finish	ENCLOSURE ONLY		"MARQUIS-12TRXB"		"MARQUIS IA"	
	Stock No.	NET EACH	Stock No.	NET EACH	Stock No.	NET EACH
Mahogany	79 DZ 310	61.74	79 DZ 316	126.42	79 DZ 313	226.38
Limed Oak	79 DZ 311	67.62	79 DZ 317	132.30	79 DZ 314	232.26
Walnut	79 DZ 312	67.62	79 DZ 318	132.30	79 DZ 315	232.26



"Marquis"

"Baronet" Speaker Systems and Enclosures

"BARONET III." Top-performance speaker system in folded-horn corner enclosure. Its performance equals that of many larger units. Makes use of floor and walls of room to effectively extend the horn. Includes SP8B 8" Radax speaker, T35B tweeter, X36 crossover and AT37 level control. Impedance: 16 ohms. Rated 20 watts, 40-watt peaks. 22½x14½x13¾". Shpg. wt., 33 lbs.

"BARONET—SP8B." Compact "Baronet" enclosure with an SP8B 8" speaker. Provides excellent reproduction—bass response extends down to 35 cps. Shpg. wt., 29 lbs.

ENCLOSURE ONLY. Takes either an 8" speaker or 2-way system. Available in 3 handsome finishes to match the decorative scheme of any surrounding. Wt., 20 lbs.

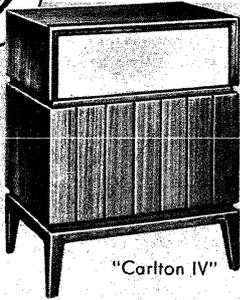
Finish	ENCLOSURE ONLY		"BARONET-SP8B"		"BARONET III"	
	Stock No.	NET EACH	Stock No.	NET EACH	Stock No.	NET EACH
Mahogany	81 DU 418	44.10	81 DU 754	73.01	81 DZ 872	109.27
Limed Oak	81 DU 419	48.02	81 DU 755	76.93	81 DZ 873	113.19
Walnut	81 DU 861	48.02	81 DU 866	76.93	81 DZ 874	113.19



"Baronet"



SPEAKER SYSTEMS, ENCLOSURES AND EQUIPMENT CABINETS



"Carlton IV"

THE "CARLTON IV" SPEAKER SYSTEM
Deluxe 4-way speaker system installed in a distinctively styled, contemporary enclosure. Low-boy design harmonizes beautifully with any modern furnishing mode.

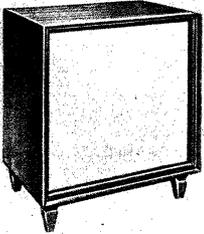
Indirect-radiator 4-way components are phase-loaded to provide nearly a full octave of added bass. Can be placed anywhere along a wall for sound reproduction approaching the quality of the original performance.

Employs these outstanding components: 15WK 15" "K" type low-frequency driver, crossing over at 300 cps through X336 net-

work to MT30 mid-bass horn assembly. Mechanical crossover at 1000 cps.

Model T350 VHF driver takes over at 3500 cps to provide treble response to 21,000 cps. Includes two AT37 level controls for "presence" and "brilliance" adjustment. Components are factory-installed and checked. Available in three lustrous, hand-rubbed veneers. Size: 33½" high, 26¼" wide, 19½" deep. Shpg. wt., 130 lbs.

- 82 DZ 390. Mahogany. NET..... 351.82
- 82 DZ 391. Limed Oak. NET..... 356.72
- 82 DZ 392. Walnut. NET..... 356.72



"Duchess IVE"

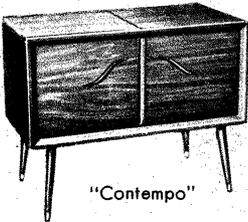
"DUCHESS" SPEAKER ENCLOSURE ONLY. Conveniently compact and with many of the fine touches that distinguish top-quality cabinetry, the "Duchess" provides complete versatility. You can install any 12" or 15" extended-range speaker by itself; then later, add other components to form a 2 or 3-way direct-radiator system. Easily accepts E-V's phase-loaded, 4-way speaker system components without the need for cabinet modification. Provided with adapter boards to allow convenient installation of components. Overall size, 29½x25x19" deep. Smartly styled to blend beautifully with the decor of any surrounding, the "Duchess"

enclosure is available in three attractive finishes. Complete with four gracefully tapered legs. Shpg. wt., 65 lbs.

- 82 DZ 402. Mahogany. NET..... 94.08
- 82 DZ 403. Limed Oak. NET..... 98.00
- 82 DZ 404. Walnut. NET..... 98.00

"DUCHESS IVE." 4-way speaker system installed in enclosure above. Includes the 12WK, BB8 and BB2 (see pages 62 and 63). Shpg. wt., 104 lbs.

- 79 DZ 307. Mahogany. NET..... 286.16
- 79 DZ 308. Limed Oak. NET..... 291.06
- 79 DZ 309. Walnut. NET..... 291.06



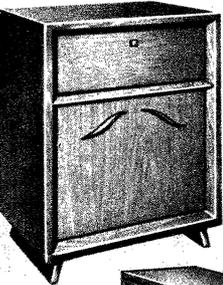
"Contempo"

NEW "CONTEMPO" EQUIPMENT CABINET
A functionally-styled, beautifully-finished, two compartment cabinet designed to accommodate high fidelity components. The smartly styled "Contempo" will complement any modern decorating scheme with its long, low lines and highly attractive finish. Matches the "Empire," "Centurion" and other Electro-Voice speaker enclosures.

Two lift lids provide quick accessibility to the record changer or turntable, tuner, amplifier and other controlling units. Each of the two compartments has ample space for all equipment.

Record changer compartment has adjustable mounting board that can be set either 3" or 6" below the bottom of the lid; dimensions are 18½" wide x 17" deep. Tuner/amplifier section has mounting board 1½" below lid—components mount vertically so that controls face up for maximum convenience. Dimensions are 14" high x 18½" wide x 17" deep. Overall cabinet size is 29½x38½x19½" deep. Tapered legs are 15½" long. Available in choice of handsome finishes—mahogany, limed oak, or walnut—specify when ordering. Shpg. wt., 72 lbs.

- 79 DZ 300-C. NET..... 117.60



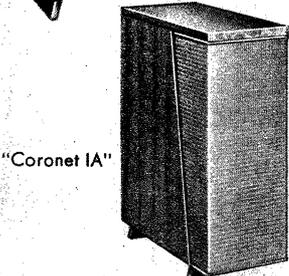
"Viscount"

"VISCOUNT" EQUIPMENT CABINET
The "Viscount" is a deluxe, highly functional equipment cabinet of enduring beauty, expertly crafted to blend with the very finest of room furnishings. Thick, top-quality hardwood is used throughout to achieve a high point in appearance and ruggedness of construction. Smart, contemporary styling complements the "Duchess," "Empire" and other E-V speaker enclosures.

Features a lift-lid and tilt-out front for convenient system operation. A tuner and amplifier can be installed on the tilt-out front panel for ready accessibility to all controls.

Record changer/turntable mounting board dimensions are 24" wide x 17" deep. Mounting board is adjustable, and may be set at positions of either 3½" or 6" from the bottom of the lid. Tuner/amplifier mounting board is 8½" deep x 22" wide, tuner/amplifier section size is 14½" high x 22" wide x 17" deep. Overall cabinet size is 34½x26x19½" deep. Cleat-type legs are 3" high. Shpg. wt., 80 lbs.

- 82 DZ 405. Mahogany. NET..... 146.02
- 82 DZ 406. Limed Oak. NET..... 152.88
- 82 DZ 407. Walnut. NET..... 152.88



"Coronet IA"

NEW "CORONET IA" ENCLOSURE AND SPEAKER SYSTEM
"CORONET" SPEAKER ENCLOSURE ONLY. Diminutive "Coronet" is a dramatic accomplishment of balanced reproduction in compact, space-saving form. Smooth, clean design is accented by brushed brass trim; complements any furnishing mode. Ideal for use in pairs for economical, high-quality stereo.

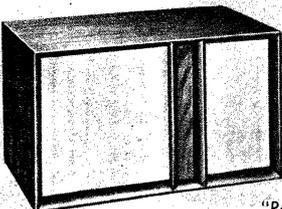
May be used with an 8" full-range speaker or 2-way system for excellent, distortion-free sound. Rear port extends bass response below 100 cycles for superb small-speaker reproduction. Outstanding performance from 70 cps to beyond audibility. Enclosure

top resists burns and stains. Overall size, 25x9½x17¾" deep. Available in mahogany, limed oak or walnut finish—specify when ordering. Shpg. wt., 19½ lbs.

- 79 DU 303-C. NET..... 34.79

"CORONET IA." Complete 2-way speaker system installed in the enclosure described at left. Includes the popular SP-8 "Radax" speaker and BB1 high-frequency package (pages 62 and 63). Available in mahogany, limed oak or walnut finishes—specify when ordering. Shpg. wt., 38 lbs.

- 79 DU 304-C. NET..... 99.96



"Regal"

NEW "REGAL" SPEAKER SYSTEMS
The extremely compact enclosure employed in the "Regal" speaker systems is an outstanding achievement in the design of modern furniture. Its simple yet striking styling will provide the perfect accent to your room decor. The "Regal" enclosure is made throughout of selected woods, and its bold lines are richly brought out by a lustrous hand-rubbed finish.

The speaker components in both systems have been carefully chosen to provide extended response and dynamic range in the limited volume of the enclosures, with a minimum sacrifice in efficiency.

Size of the systems is 13½x24x13½" (HWD). Available in mahogany, limed oak or walnut finishes—specify when ordering.

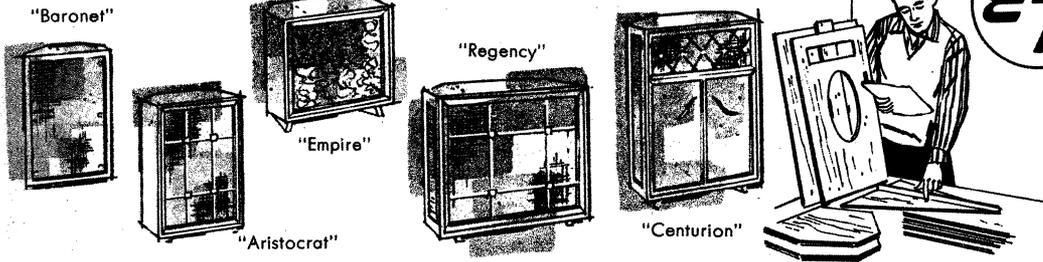
"REGAL IA." Two-way system. Has 12" woofer, compression tweeter, LC crossover and level control. Shpg. wt., 30 lbs.

- 79 DU 305-C. NET..... 100.94

"REGAL III." Three-way system. Has 12" woofer, mid-range and high-frequency compression tweeters, 2-LC crossovers and presence and brilliance controls. Specify finish. Shpg. wt., 32 lbs.

- 79 DU 306-C. NET..... 144.55

ELECTRO-VOICE ENCLOSURE KITS AND ACCESSORIES



Attractively Styled Speaker Enclosure Kits

Complete kits for assembling the famous Electro-Voice high-fidelity speaker enclosures. All you need are a few simple tools to quickly assemble any of these distinctively styled enclosures. Each one of these economical kits includes a full set of clearly written, step-by-step instructions. All lumber parts are cut to exact size on the same precision factory machinery which is used to manufacture completed Electro-Voice cabinets. Exterior surfaces are made of selected clear-grained korina, ready for finishing in the color of your choice. Finishing kits, for obtaining a professional furniture finish, are listed on page 92. Grille cloth, glue, screws and nails are included with every speaker enclosure kit; less metal trim (listed below).

The low-cost Baronet delivers excellent performance where space is limited. The Aristocrat is an economical enclosure that will extend the bass range of a speaker by one full octave. Rear loading is incorporated in the distinctive Empire for top audio efficiency in a corner or against a wall. The outstanding Regency combines the advantages of folded-horn performance with flexibility of placement. Featuring exclusive Electro-Voice "W" single-path indirect radiator, the gracefully styled Centurion has a sealed cavity behind the 15" speaker position to provide superior transient response, subdue cone excursions and lower distortion. The chart at the bottom of the page lists speaker components suggested for installation in these enclosures.

ENCLOSURE	Stock No.	Model No.	Type of Enclosure	Takes:	Assembled Size (HWD)	Wt., Lbs.	NET EACH
Centurion	79 DZ 319	KD3	K-type indirect radiator folded corner horn	15" speaker, or 2, 3, or 4-way system	42x26 $\frac{1}{4}$ x23 $\frac{1}{2}$ "	64	85.26
Regency	81 DZ 786	KD4	Folded horn (corner or wall)	12" or 15" speaker, or 2 or 3-way system	29 $\frac{3}{8}$ x32x19"	55	71.54
Empire	81 DZ 787	KD5	Indirect folded horn (corner or wall)	12" or 15" speaker, or 2 or 3-way system	29 $\frac{3}{8}$ x32x16"	45	49.98
Aristocrat	81 DU 788	KD6	Folded corner horn	12" speaker, or 2 or 3-way system	29 $\frac{3}{8}$ x19x15 $\frac{1}{8}$ "	36	38.22
Baronet	79 DU 320	KD7	Folded corner horn	8" speaker or 2-way system	25 $\frac{1}{2}$ x16x12"	16	25.48

DECORATIVE TRIM AND GRILLE KITS FOR E-V ENCLOSURES

Custom, metal trim and grille sets for Electro-Voice Centurion, Regency and Aristocrat speaker enclosure kits. Designed to add a distinctive, professional touch to your completed enclosure kit. Each set gracefully complements the enclosure for which it is recommended. Metal pieces are attractively finished in brushed and lacquered antique brass. Grille sizes in descriptions indicate exposed area after installation.

MODEL AK4. Trim kit designed for Centurion-style exterior. Consists of two decorative handles and modern crossbar grille. Grille is cut to 8" by 25" dimensions, handles are 5" long and 3/4" wide. Attractively finished in brushed and lacquered antique brass. Shpg. wt., 3 lbs.
81 DX 797. NET. 8.82

MODEL AK5. Trim kit styled for the Regency KD4 enclosure kit. Consists of lacquered, antique-brass finish crossbar grille. Size is 24" by 29 1/2". Shpg. wt., 3 lbs.
81 DX 798. NET. 5.88

MODEL AK6. Similar to Model AK5 described above, but for use with the Model KD6 Aristocrat enclosure kit. Size is 24" by 16". Shpg. wt., 3 lbs.
81 DX 799. NET. 4.70

COMPLETE E-V SPEAKER ENCLOSURE PLANS

Easy-to-follow instruction booklets containing complete plans and list of materials necessary to build any of the Electro-Voice speaker enclosures.

The instruction booklets are each divided into five sections. (1) description of the specific enclosure and system, plus performance to be expected; (2) selection of materials, layout and cutting to size; (3) assembling the enclosure; (4) installation of speakers; (5) built-in systems which become part of house. Full construction details include tips on selecting lumber, layout and sawing of parts, and recommended Electro-Voice speakers and other components for your finished enclosure. Also include drawings, photos and hints to simplify building. (These booklets are identical to those supplied with the Electro-Voice enclosure kits listed above.) Postpaid in U.S.A.

Stock No.	Plan	For	NET EACH
38 K 138	IB1	Patrician horn	1.47
38 K 139	IB2	Georgian horn	1.47
38 K 140	IB3	Centurion	.98
38 K 141	IB4	Regency	.98
38 K 142	IB5	Empire	.98
38 K 143	IB6	Aristocrat	.98
38 K 144	IB7	Baronet	.73

POPULAR E-V INTERIOR ASSEMBLY KITS

MODEL KD1 "PATRICIAN IV." (Not illustrated.) E-V's famous "K" horn with augmented bass section. Sealed up approximately 30% to deliver an added full octave of bass. Low in cost, the KD1 kit offers all the advantages of the Patrician enclosure (listed on page 64) in a built-in corner installation. Takes an 18" speaker, or 2, 3 or 4-way system. Specifically designed for use with the 103E 4-way speaker package listed on page 63. Kit includes all parts and easy-to-follow instructions. All lumber parts are pre-cut—glue, screws and nails are included. Size of interior assembly is 57 $\frac{1}{8}$ x34 $\frac{1}{2}$ x26 $\frac{1}{8}$ ". HWD. Shpg. wt., 150 lbs.
81 DZ 783. NET. 115.64

MODEL KD2A "GEORGIAN." Duplicates the "K" horn interior assembly of the popular Georgian enclosure (page 64). Delivers the exceptional performance of the Georgian in a built-in corner installation. Takes a 15" speaker, or a 2, 3 or 4-way system. Specifically designed for use with "Georgian 600" component group (page 64). Kit includes glue, screws, nails, instructions. 25 $\frac{1}{2}$ x16x12" HWD. Shpg. wt., 94 lbs.
79 DZ 321. NET. 67.62

FINISHING KITS. Kits for finishing the enclosures at the top of this page are listed on p. 92.

Recommended Speaker Components For E-V Enclosures

The following chart lists the Electro-Voice components which are suitable for installation in E-V speaker enclosures and enclosure kits in this catalog. Each set of components has been selected to deliver optimum audio performance when

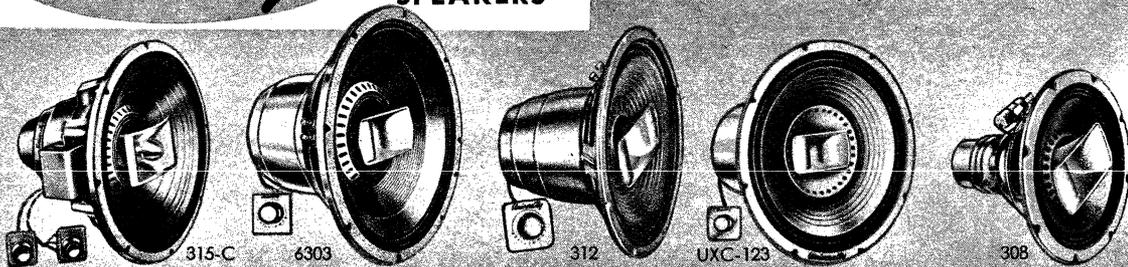
installed in the enclosures for which they are recommended. The components are described on pages 62 and 63. (In addition to the enclosure kits on this page, fully assembled and finished speaker enclosures are listed on pages 61 and 65.)

Enclosure	Recommended Components		
	Woofer	Mid-Range Package	High-Frequency Package
Baronet, KD7 Kit	SP8B		BB1
Aristocrat, Marquis, KD6 Kit	12BW	BB3	BB1
Regency, Empire, KD4 Kit, KD5 Kit	15BW	BB3	BB1
Duchess, Centurion, KD3 Kit	12WK	BB8	BB2

University

HIGH FIDELITY SPEAKERS

Top-quality hi-fi speakers, famous for their authentic reproduction of sound



3-Way Diffaxial Series

UNIVERSITY'S DIFFAXIAL DESIGN. Most of the speakers listed below employ University's famous Diffaxial design. This feature assures outstanding tonal balance by providing exceptionally smooth, wide-angle dispersion of treble frequencies. These frequencies are normally projected straight ahead by the loudspeaker; as a result, they are not heard at the proper volume at all points in the room. However, University's Diffaxial speakers overcome this problem by using a special diffusing-type cone (Diffusicone) at the apex of the main cone. The Diffusicone disperses the treble frequencies to provide extremely even distribution throughout the listening area.

MODEL 315-C SUPER 15" DIFFAXIAL. The greatly improved version of earlier 315. Woofer cone features high excursion, dual-spider piston and anti-breakup, low-resonance diaphragm, for rich natural bass. Multi-element Diffusicone mid-range section, crosses over at 1000 cps. Treble is covered by heavy-duty T-50 Hypersonic driver and axially mounted, wide-angle tweeter horn. Response is 25 cps to inaudibility. 2 balance controls for mid-range and treble adjustment. Magnet wt., 6½ lbs. Capacity, 50 watts. Impedance, 8-16 ohms. 12" deep. Shpg. wt., 34½ lbs.

81 DU 947. NET.....152.88

MODEL 6303 15" DIFFAXIAL. Excellent 3-way performance is achieved by using the Diffusicone design and coaxially mounted, high-efficiency tweeter. Moderately priced, the 6303 is a fine choice for a custom home music system. Three reproducing elements (15" cone, Diffusicone element and super-tweeter), provide brilliant high-fidelity sound. Frequency response extends from 30 cps to beyond audibility.

Mechanical crossover at 1000 cps; electrical crossover network at 5000 cps. Includes brilliance control on 3-ft. cable with brass plate and knob. 2-lb. Alnico V permanent magnet. Power capacity, 30 watts. Impedance, 8-16 ohms. 15½" diameter; 10" deep. Shpg. wt., 12 lbs.

95 DU 538. NET.....81.34

MODEL 312 12" DIFFAXIAL. Brilliant 12" Diffaxial speaker for exceptional, wide-range reproduction. Has 12" woofer, Diffusicone mid-range unit, and HF-206 super-tweeter. Built-in electrical crossover network at 5000 cps. Response, 40 cps to beyond audibility. 25 watts power handling capacity. Employs 2-lb. Alnico V permanent magnet. Impedance, 8-16 ohms. With brilliance control. 36" cable. Size, 12½" dia. x 8" deep. Shpg. wt., 11 lbs.

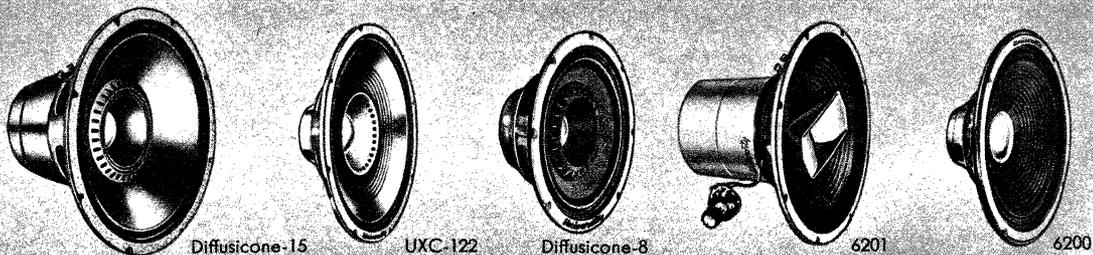
95 DX 188. NET.....68.60

MODEL UXC-123 12" DIFFAXIAL. Unusually low in cost, the UXC-123 employs a Diffusicone element and reciprocating-flare super-tweeter, mounted through the center axis of the woofer, to attain true, wide-angle dispersion. Built-in brilliance control for adjustment to room acoustics. Mechanical crossover at 1000 cps; electrical crossover at 5000 cps. 1¼-lb. Alnico V permanent magnet. Power handling capacity, 25 watts. Impedance, 8-16 ohms. Frequency response extends from 45 to 17,500 cycles. Size, 12½" diameter; 8¼" deep. Brilliance control comes complete with mounting plate and knob, pre-wired to 3-ft. cable. Shpg. wt., 9 lbs.

95 DX 585. NET.....62.72

MODEL 308 8" DIFFAXIAL. A very compact, highly efficient Diffaxial speaker. Designed specifically for the smaller hi-fi installation, the 308 is perfect for use where space is at a premium and quality reproduction is desired. Features special-design 8" woofer for excellent bass response. Has Diffusicone mid-range unit, compression type tweeter and built-in 5000-cps electrical crossover. Frequency response, 50-15,000 cps. Magnet wt., 1¼ lbs. Impedance 8-16 ohms. Power handling capacity, 25 watts. 8¾" diameter; 6¼" deep. Shpg. wt., 5 lbs.

95 D 189. NET.....38.95



2-Way Diffaxial Series

MODEL DIFFUSICONE-15 15" DIFFAXIAL. Low-cost, 2-way, Diffaxial 15" speaker. Diffusicone element assures wide-angle dispersion of treble frequencies. Dual horn-loading at the apex of the cone extends mid- and high-frequency response, crossing over mechanically at 1000 cps. Rich, clear bass, without boominess, is provided by the sturdily constructed 15" woofer with specially molded cone. A 1½-lb. Alnico V magnet also contributes to the excellent bass response. Frequency response from 30 to 14,000 cycles. Power capacity, 30 watts. Impedance, 8-16 ohms, 15½" dia.; 7½" deep. Shpg. wt., 8¼ lbs.

95 DX 539. NET.....44.10

MODEL DIFFUSICONE-12 12" EXTENDED-RANGE DIFFAXIAL. 12" version of above. For the low-cost high-fidelity system. Smooth, wide-angle dispersion achieved by patented University diffusicone element. Power handling capacity, 30 watts. Frequency response, 40 to 14,000 cps. Impedance, 8-16 ohms. 24 oz. Alnico V magnet. Depth 4½"; 12¼" diameter. Shpg. wt., 6 lbs.

95 DX 182. NET.....36.26

MODEL UXC-122 12" DIFFAXIAL. Low-priced 12" Diffaxial speaker. Employs Diffusicone high-frequency element with a 1000-cycle mechanical crossover. Coaxial horn-loading at apex of cone extends mid and treble response. Low frequencies are reproduced by specially molded, one-piece woofer diaphragm. Delivers excellent reproduction across entire audio range. Response, 45 to 13,000 cps. Capacity, 25 watts. Impedance, 8-16 ohms. Size, 12½" diameter; 4¾" depth. Employs 1-lb. Alnico V permanent magnet. Shpg. wt., 5¼ lbs.

95 DX 584. NET.....32.34

MODEL DIFFUSICONE-8 8" DIFFAXIAL. Low-cost, 2-way 8" speaker. Highly suitable for the smaller hi-fi installation, or where space is at a premium. Wide-angle dispersion is achieved by dual coaxial horn acting as radial projector, plus aperture diffraction. Diffusicone element provides better-than-average reproduction. Response, 70 to 13,000 cps. Magnet wt., 1 lb. Capacity, 25 watts. Impedance, 8-16 ohms. 87/32" diameter. Depth, 3¾". Shpg. wt., 3¼ lbs.

95 D 183. NET.....25.48

12" Coaxial Speaker

MODEL 6201. Highly popular, top-quality 12" hi-fi speaker. True coaxial operation is provided by a compression-type tweeter and 2500-cycle electrical crossover network. Tweeter is axially mounted through the center of the woofer. "W" shape, 1½-lb. Alnico V magnet and 1-piece molded woofer diaphragm provide exceptionally smooth low-frequency transient response. Includes brilliance control with 3-ft. cable. Excellent frequency response—45 to 15,000 cps. Capacity, 25 watts. Impedance, 8-16 ohms. 8¾" depth. Shpg. wt., 10¼ lbs.

95 DX 176. NET.....50.96

12" Extended-Range Speaker

MODEL 6200. Economy-priced 12" speaker. Special, shallow design for flush mounting in ceilings, walls, etc. Excellent for high-fidelity use, radio-phonograph replacement, public address, etc. Employs duraluminum dome at cone apex. Frequency response, 45-10,000 cps. Impedance, 8-16 ohms. Power handling capacity, 30 watts. 12½" diameter. Only 4" deep. Shpg. wt., 5¼ lbs.

95 DX 180. NET.....25.48

WOOFERS, TWEETERS, DRIVERS & CROSSOVERS

Low-Frequency Woofers

MODEL C15W 15" WOOFER. Features special-design voice coil permitting greater cone excursion for deep bass. Dual spider piston and 6-lb. magnet assure remarkably clean response from below 25 to 1500 cps. Power handling capacity, 50 watts. Dual impedance voice coil assembly permits use in any system of 4 to 20 ohms. Depth, 10 1/2". Shpg. wt., 26 3/4 lbs.
95 DU 185. NET..... 83.30

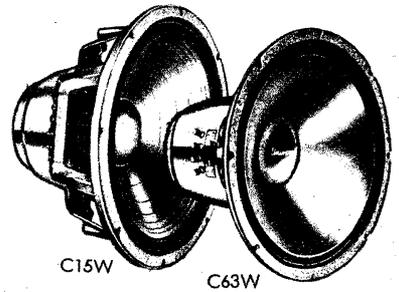
MODEL C63W 15" WOOFER. Employs unique, built-in low-pass filter. Permits adjusting treble cut-off point at 700, 2500 or 5000 cps to suit crossover requirements of most tweeters. 1 1/2-lb. magnet. Response, 30 to 6000 cps. Capacity, 30 watts. Includes brilliance control. Impedance, 8 ohms. Depth, 10". Shpg. wt., 10 lbs.
81 DX 563. NET..... 48.02

See Page 71 for University high-compliance woofers

MODEL C12W 12" WOOFER. Features built-in low-pass filter for adjustment of response to 700, 2500 or 5000 cps—suits crossover requirements of most tweeters. Frequency response, 40 to 6000 cps. Power handling capacity, 30 watts. Employs 1 1/2-lb. magnet. Voice coil impedance, 8 ohms. 6 1/2" deep. Shpg. wt., 7 1/4 lbs.
95 DX 191. NET..... 35.28

MODEL C8W 8" WOOFER. Perfect for use in assembling a high-quality speaker system for use where space is limited. May be used as a low-cost, mid-range speaker in three-way systems. Suitable for crossover up to 5000 cps. Response, 50 to 5000 cps when properly baffled. Power handling capacity, 25 watts. Impedance, 8 ohms. 4 1/4" deep. Shpg. wt., 3 lbs.
95 D 192. NET..... 13.23

University



MODEL HF-206 HYPERPERSONIC TWEETER. Provides crisp, clear highs. Extends high-frequency response far beyond audible range. Employs improved die-cast aluminum wide-angle, "reciprocating flare" horn for uniform 120° horizontal and 50° vertical dispersion. Driver mechanism handles 25 to 50 watts of program material. Response, 3500 cps to inaudibility. Requires N-1 or N-2B crossover network. Impedance, 8 ohms. 6x3 1/2x6 3/8". Shpg. wt., 3 1/2 lbs.
95 D 190. NET..... 32.34

MODEL T-30 MID-RANGE AND HIGH-FREQUENCY DRIVER. For use with Cobreflex or H-600 horns. Provides mid-range in 3 and 4-way systems, or serves as tweeter in 2-way systems. Requires N-2A crossover network. Response, 200 to 15,000 cps. Capacity, 50 watts in multi-speaker systems. Impedance, 8 ohms. 1 3/8"-18 throat; 3 1/2" diameter; 3 3/4" deep. Wt., 2 3/4 lbs.
81 D 589. NET..... 29.40

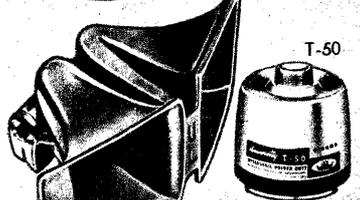
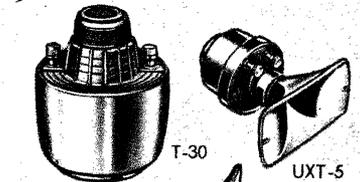
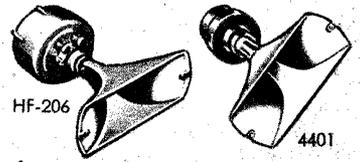
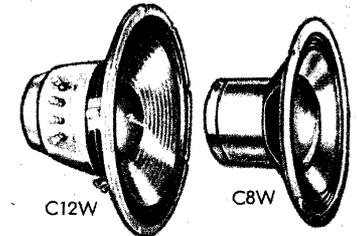
MODEL T-50 HYPERPERSONIC DRIVER. Heavy-duty driver unit for use with the H-600 horn. Provides response from 600 cps to beyond audibility. Requires N-2A crossover network. Capacity, 50 watts in multi-speaker systems. Imp., 8 ohms. 1 3/8"-18 throat; 4 1/4" dia.; 4 1/8" deep. Wt., 5 lbs.
81 D 948. NET..... 48.51

MODEL COBREFLEX HORN. Perfect for use as a mid-range horn, in 3-way speaker systems when used with the T-30 driver unit. Its 27" exponentially flared air column permits crossover as low as 350 cps. Twin-flare design for uniform wide-angle dispersion; 120° horizontal and 60° vertical. Aluminum die casting. 1 3/8"-18 throat. 10 1/4 x 18 1/2 x 9 1/4". Shpg. wt., 10 1/4 lbs.
95 DX 184. NET..... 22.54

MODEL 4401 TWEETER. A quality tweeter at low cost. Sturdy, one-piece die-cast horn using "reciprocating flare" principle for 120° horizontal and 50° vertical dispersion. Employs efficient driver mechanism and lightweight duralumin voice coil suspension in hermetically sealed unit. Response, 2000 to 15,000 cps. Requires N-1 or N-2B crossover networks. Capacity, 25 watts. Impedance, 8 ohms. Size, 2 3/4x6x6 5/8". Shpg. wt., 2 lbs.
95 D 167. NET..... 17.64

MODEL UXT-5 SUPER TWEETER. A compact, super-tweeter assembly. Unusually smooth response at 5000 cps crossover point, or above. Employs efficient compression driver unit coupled to "reciprocating flare" horn, for uniform wide-angle response. Recommended for use with either the N-1 high-pass filter or N-2B crossover network. Response from 4500 to 17,500 cps. 120° horizontal and 50° vertical dispersion. Capacity; 25 watts in 2-way systems, 50 watts in 3-way systems. Impedance, 8 ohms. 4 1/4x1 1/2x4". Shpg. wt., 1 3/4 lbs.
81 D 564. NET..... 20.58

MODEL H-600 MID-RANGE AND HIGH FREQUENCY HORN. Excellent, top-rated 600-cycle cutoff, wide-angle horn. One-piece, die-cast design. Recommended for use with N-2A crossover network and the Model T-30 or T-50 driver units. Offers outstanding performance at low cost. Combines "reciprocating flare" principle with hemispherical deflection for uniform sound patterns throughout the audio range from 600 cps to beyond audibility. Accepts driver unit with standard-size 1 3/8"-18 throat. 7 3/4x8 1/4x4 3/4". Shpg. wt., 2 1/2 lbs.
81 DX 949. NET..... 17.64



Crossover Networks and Level Control

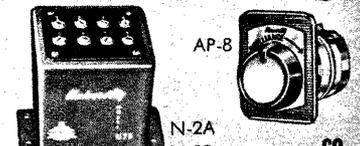
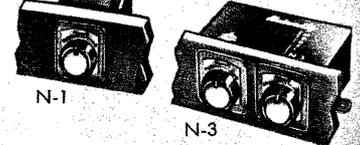
MODEL N-1 ADJUSTABLE HIGH-PASS FILTER. Adjustable high-pass filter with built-in brilliance control. For dividing audio between woofer and tweeter in 2-way systems. Crossover and impedance combinations: 2500, 5000 and 10,000 cps at 8 ohms; 1250, 2500 and 5000 at 16 ohms; also 5000 and 10,000 cps at 4 ohms. For use with N-2A crossover in 3-way systems. Fits panels to 1". 3 5/8x3 1/4x3 3/8". Shpg. wt., 1 1/4 lbs.
95 D 193. NET..... 10.29

MODEL N-2A CROSSOVER NETWORK. For any combination of speakers, in a great variety of voice coil impedances and crossover points. Can be used with N-1 or N-2B for 3-way speaker systems. 6 db, 2-way network. May be used in pairs as 12 db low or high-pass filter. Crossover: 300 or 700 cps at either 8 or 16 ohms; 700 cps at 4 ohms. Less brilliance control; use AP-8 below. Size, 3 5/8x3 1/4x3 3/8". Shpg. wt., 2 1/4 lbs.
95 D 194. NET..... 17.64

MODEL AP-8 LEVEL CONTROL. Highly efficient attenuator pad for balancing sound according to room acoustics and personal taste. Perfect for use with N-2A and N-2B networks. Attractive escutcheon marked "presence" on one side, and "brilliance" on other side. Fits panels to 1" in thickness. Impedance: 8-16 ohms. Shpg. wt., 7 oz.
95 D 132. NET..... 3.87

MODEL N-2B CROSSOVER NETWORK. For use with any combination of speakers, in varied voice coil impedances and popular crossover points. Can be used with the N-2A for 3-way speaker systems. 6 db, 2-way network. Used in pairs as 12 db low or high-pass filter. Crossovers: 1250, 2500 and 5000 cps at 8 ohms; 2500 or 5000 cps at 16 ohms; 2500 cps at 4 ohms. Less brilliance control; use AP-8 below. 3 5/8x3 1/4x3 3/8". 2 1/4 lbs.
95 D 195. NET..... 13.72

MODEL N-3 "ACOUSTIC BATON" 3-WAY CROSSOVER NETWORK. Adjustable network for 3-way speaker systems. Connections for either 350 or 700 cps crossover between mid-range and woofer. Tweeter crossover is 5000 cps. Built-in presence and brilliance controls. Adjustable for vertical or horizontal mounting. Fits panels up to 1" in thickness. Impedance, 8 ohms. Size, 7x5x3 3/8". Shpg. wt., 5 1/2 lbs.
95 D 196. NET..... 27.44

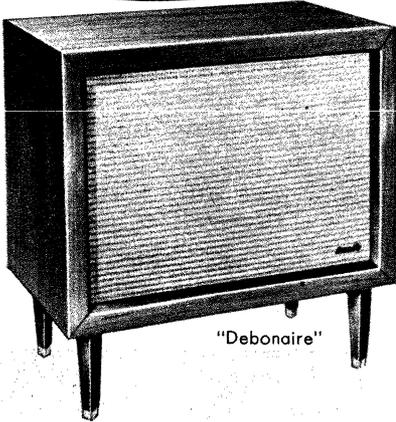


See Page 71 for University Speaker Packages



SPEAKER ENCLOSURES AND SYSTEMS

NEW "Debonaire" Enclosure and Systems



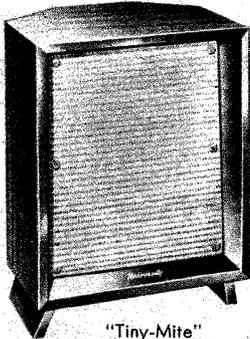
"Debonaire"

Smartly styled, high-fidelity lowboy enclosure and complete lowboy speaker systems. Only 25 $\frac{3}{8}$ x27 $\frac{3}{8}$ x16" (including legs), these units are ideal for use in small rooms. Enclosure can house 12" or 15" speakers, plus a variety of mid-range and high-frequency tweeter units for full-range hi-fi reproduction. Versatile styling and rich, hand-rubbed finish complement any room interior—blend well with both traditional and modern decor.

The complete, carefully matched "Debonaire" systems, listed below, deliver clean, extended high-fidelity sound. The separate "Debonaire" enclosure, also listed, is excellent for use with the University speaker packages at the bottom of page 71. Its baffle board has removable cut-outs for easy installation of speaker components.

Stock No.	Mfr's Type	Description	Finish	Wt., Lbs.	NET EACH
82 DZ 433	EN-1215	Debonaire enclosure for use with 12" or 15" speaker. Complete with provisions for mid-range and tweeter units	Mahogany	56	61.74
82 DZ 434			Blonde		67.62
82 DZ 435			Walnut		67.62
82 DZ 436	S-3	Debonaire enclosure with C-12W 12" woofer, H-600 mid-range horn/T-30 driver & UX T-5 super tweeter	Mahogany	68	192.08
82 DZ 437			Blonde		195.02
82 DZ 438			Walnut		195.02
82 DZ 439	S-4	Debonaire enclosure with Diffifacox-15 two-way 15" speaker and H-600 mid-range horn/T50 Hypersonic driver	Mahogany	71	193.55
82 DZ 440			Blonde		196.49
82 DZ 441			Walnut		196.49
82 DZ 442	EN-1215	Debonaire enclosure with UXC-123	Mahogany	65	124.46
82 DZ 443	With	12" diffaxial speaker. Speaker has	Blonde		130.34
82 DZ 444	UXC-123	completely wired brilliance control.	Walnut		130.34

"Tiny-Mite" Speaker Enclosures and Systems



"Tiny-Mite"

TM-812 "TINY-MITE" ENCLOSURE. An unusually effective "cornerless-corner" enclosure, occupying little more than one square foot of floor space, yet providing powerful bass response. For use with any 12" or 8" speaker; baffle board is cut for 12" speaker, with optional adapter board cut for 8" speaker. Construction is of heavy $\frac{3}{4}$ " wood, braced to eliminate any trace of vibration or rattling. Specially designed interior horn construction operates independently of room placement; enclosure may be used in a corner against a side wall, on a shelf, etc., without impairment of tonal quality. Surfaces are beautifully finished; precision workmanship throughout. Available in choice of mahogany, blonde, or walnut finish. Grille cloth has attractive pattern, selected to harmonize with wood finishes. Overall size, 21 $\frac{1}{4}$ " high, 15 $\frac{1}{2}$ " wide, 12 $\frac{1}{2}$ " deep. Shpg. wt., 26 lbs.

95 DU 104. Mahogany. NET.....	42.63
95 DU 107. Blonde. NET.....	45.57
81 DU 818. Walnut. NET.....	45.57

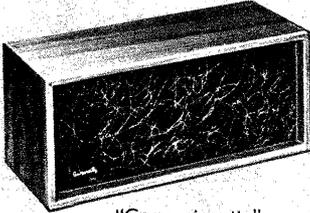
S-3TM SYSTEM. Combination of 3-way Model 308 University "Diffaxial" 8" speaker and highly efficient "Tiny-Mite" enclosure listed at left. Speaker is installed, wired and ready to use. Convenient terminal strip on rear of enclosure permits quick, exceptionally easy hook-up to amplifier without opening enclosure. Shpg. wt., 31 lbs.

81 DU 897. Mahogany. NET.....	83.30
81 DU 898. Blonde. NET.....	86.24
81 DU 899. Walnut. NET.....	86.24

"TINY-MITE" WITH UXC-122 INSTALLED. Highly effective system using 12" UXC-122 "Diffaxial" speaker. Delivers music reproduction comparable to considerably larger systems. Exceptionally compact; may be used anywhere in room with excellent results, since self-contained horn in enclosure is independent of walls and floor for operation. Shpg. wt., 31 lbs.

81 DU 568. Mahogany. NET.....	75.07
81 DU 569. Blonde. NET.....	77.91
81 DU 888. Walnut. NET.....	77.91

"Companionette" 2-Way Speaker System



"Companionette"

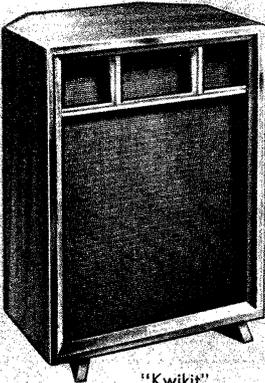
Tastefully styled 2-way high-fidelity speaker system. Provides excellent tonal reproduction. Specially designed for use in limited-space applications as a shelf enclosure; may also be used as an extension speaker to bring music from your central hi-fi system to another part of the house.

Enclosure employs the "distributed port" phase-inversion principle for smooth, peak-free bass response. Complete system consists of handsomely finished cabinet plus C8W 8" woofer, 4401 wide-angle tweeter and 2000-cycle crossover network. All components are installed—and ready to use. Frequency response of system extends from 50 to 15,000 cycles.

Only 10" high, 10" deep and 24" long—perfect for mounting on a book or record shelf. Sturdily constructed to prevent cabinet vibration; handles program material of up to 25 watts. May be mounted on wrought iron legs (available at most hardware stores) as an independent, free-standing unit if desired. Matching grille cloth has attractive swirl pattern. Shpg. wt., 21 lbs.

MAHOGANY FINISH.	
81 DU 583. NET.....	60.76
BLENDED FINISH.	
81 DU 584. NET.....	62.72
WALNUT FINISH.	
81 DU 816. NET.....	62.72

"Kwikit" 12" and 15" Speaker Enclosure Kits



"Kwikit"

Enclosures of superior acoustic design in kit form. Complete with attractive front panel trim and grille cloth. Selected wood panels are cut exactly to size, of $\frac{3}{4}$ " fully cured lumber, ready for furniture finishing. Precision-made parts assure positive airtight construction for maximum enclosure efficiency. Design combines direct speaker radiation, reflex principle and rear horn loading construction, to produce uniform response in all parts of the listening area.

Self-contained folded horn extends to front of enclosure, projecting low frequencies out into the room. "Kwikits" are independent of room placement, and may be used against a flat wall, in a corner, or above floor level. Heavy wood panels provide high rigidity. Exterior and interior parts fit snugly together; smooth, professional finishing is

assured by absence of protruding edges or irregularities in edges of panels. KEN-12 has baffle board for 12" wide-range speaker or woofer; pre-cut for University H-600 horn and T-30 or T-50 driver; and 4401, UXT-5 or HF-206 tweeter. KEN-15 accepts a 15" (or 12" speaker with adapter below), and same mid-range and high-frequency components as KEN-12. With grille cloth.

KEN-12. 29 $\frac{1}{2}$ x21 $\frac{1}{2}$ x15 $\frac{1}{2}$ ". Wt. 45 lbs.	
81 DU 828. NET.....	43.85
KEN-15. 35 $\frac{1}{4}$ x29x18 $\frac{1}{2}$ ". Wt. 68 lbs.	
81 DZ 829. NET.....	58.31
ADAPTER BOARD. Permits mounting 12" speaker in KEN-15. Wt., 1 $\frac{1}{2}$ lbs.	
82 DX 299. NET.....	1.19

SPEAKER SYSTEMS AND HIGH COMPLIANCE WOOFERS

University

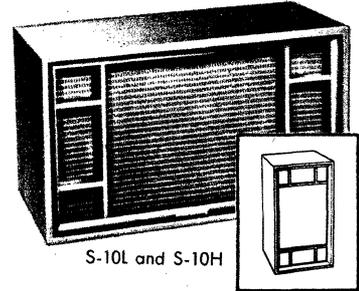
2-Way Speaker Systems

MODEL S-10L—LOWBOY. Two-way, high-fidelity speaker system in handsome shelf-type enclosure. Ideally suited for use where minimum upright space is available. Tubular duct provides phase-inverting action for highly realistic audio reproduction. For amplifiers delivering 15 watts or more.

Complete system includes: C-12HC 12" high-compliance woofer (described below), special-design UL/HC wide-angle tweeter, HC crossover network, and highly efficient Program Distortion Filter. Impedance, 8

ohms. Enclosure is constructed of ¾"-thick selected woods. Available in choice of mahogany, blonde or walnut—hand-rubbed to a lustrous, natural grain finish. Attractive grille cloth harmonizes with wood finish to blend beautifully with furnishings of room. Supplied with 1½" removable base. Overall size (less base) is only 14x25x14½". Shpg. wt., 51 lbs.

MODEL S-10H—HIGHBOY. Speaker system as described above, but for use where minimum width is available. 25x14x14½".



S-10L and S-10H

S-10L Lowboy			S-10H Highboy		
Stock No.	Finish	NET	Stock No.	Finish	NET
82 DZ 418	Mahogany	136.22	82 DZ 445	Mahogany	136.22
82 DZ 419	Blonde	140.14	82 DZ 446	Blonde	140.14
82 DZ 420	Walnut	140.14	82 DZ 447	Walnut	140.14

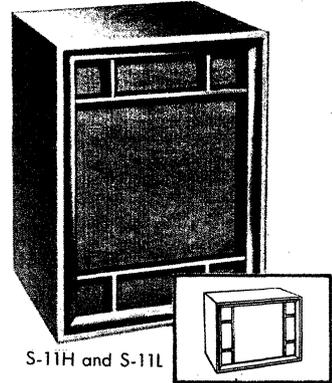
3-Way Speaker Systems

MODEL S-11H—HIGHBOY. Three-way, high-fidelity speaker system in width-sparing console enclosure. Though small in size, the S-11H provides remarkably rich and distinct bass reproduction. Employs same acoustic principle as described above, for superb, satin-smooth sound.

System includes: C-15HC 15" high-compliance woofer (described below), Diffusicon-8 8" mid-range speaker, UL/HC Hypersonic tweeter, HC-3 crossover with balance control, and Program Distortion Filter.

ter. For amplifiers delivering 10 watts or more. Imp., 8 ohms. Enclosure is styled to complement the decor of any room. Available in choice of handsome finishes: mahogany, blonde or walnut. Attractive grille cloth blends beautifully with quality finish of enclosure. Supplied with 1½" removable base. Size (less 1½" base), 26⅞x19⅞x17⅞". Shpg. wt., 80 lbs.

MODEL S-11L—LOWBOY. Speaker system as described above, but for use where minimum upright space is available. 19½x26⅞x17⅞".



S-11H and S-11L

S-11H Highboy			S-11L Lowboy		
Stock No.	Finish	NET	Stock No.	Finish	NET
82 DZ 421	Mahogany	240.10	82 DZ 448	Mahogany	240.10
82 DZ 422	Blonde	244.02	82 DZ 449	Blonde	244.02
82 DZ 423	Walnut	244.02	82 DZ 461	Walnut	244.02

C-12HC and C-15HC High-Compliance Woofers

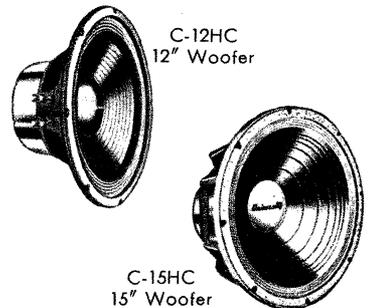
Moderately priced, high-compliance woofers designed for ultra-linear response. Deliver rich, remarkably clean reproduction throughout the lower frequency range. Have unusually low cone resonance.

Feature Hiflux Uniferrox-7 magnet material in a specially constructed suspension structure—assures positive transient control during maximum excursions. Dual-impedance voice coil permits use in any system of 4 to 8 ohms or 10 to 20 ohms.

For maximum fidelity, the C-12HC and the C-15HC speakers should be used in properly designed enclosures. Recommended enclosure plans are supplied with each unit.

MODEL C-12HC 12" SPEAKER. High-compliance, 12" woofer providing excellent performance when used with amplifiers delivering 15 watts or more. Delivers clean response below 2500 cycles. Resonance, 18 cps. Depth, 5½". Shpg. wt., 8½ lbs.
81 DX 811. NET..... 48.51

MODEL C-15HC 15" SPEAKER. Deluxe, high-efficiency 15" woofer. Delivers outstanding reproduction of audio frequencies below 800 cycles. Recommended for use in high-fidelity systems employing amplifiers which are capable of delivering output of 10 watts or more. Cone resonance, only 15 cps. Depth, 8⅞". Shpg. wt., 24¾ lbs.
81 DU 812. NET..... 87.71



C-12HC 12" Woofer

C-15HC 15" Woofer

University 2-Way, 3-Way, Mid-Range and High-Frequency Speaker Packages

Carefully matched combinations of speaker components, available in a variety of sizes. Include "add-on" groups of components for modernizing existing installations, and complete sets of components. Especially suited to custom installation in walls or doors, or in specially designed enclosures. Each set includes all necessary drivers and horns, connecting wires, balance controls as indicated, and full instructions for quick, simplified installation.

Each full-range speaker component package offers superior coverage of the audible range, when properly baffled. High-frequency and mid-range packages add new brilliance to older high-fidelity systems. Crossover networks are furnished as required, eliminating any necessity for further matching of components. May be used with all high-quality amplifiers and other playback equipment. Binding post and screw terminals for easy installation; no soldering.

Stock No.	Mfr's Type	Description	Wt., Lbs.	NET EACH
95 D 109	UN-1	High-Frequency Components Package; HF-206 tweeter, N2B, AP8	7	49.93
81 DX 995	UN-2	Mid-Range Components Package; T-30 mid-range driver H-600 reciprocating-flare horn, N2A crossover network, AP8 balance control.	8	68.55
81 DU 996	UN-3	Mid- and High-Frequency Components Package; T-30 mid-range driver, H-600 horn, HF-206 super-tweeter, N3 crossover network with controls.	15	106.82
81 DX 997	UN-4	8" Two-Way Components Package; C8W woofer, 4401 tweeter, N1 crossover network with balance control.	8	41.16
81 DU 998	UN-5	12" Three-Way Components Package; C12W woofer, H-600 horn, T-30 driver, HF-206 super-tweeter, N3 crossover with controls.	21½	142.10
81 DU 999	UN-6	15" Three-Way Components Package; C15W woofer, H-600 horn, T-30 driver, HF-206 super-tweeter, N3 crossover with controls.	39½	190.12

FOR FULL DESCRIPTION OF COMPONENTS USED IN PACKAGES ABOVE, SEE PAGE 69



HIGH-FIDELITY SPEAKER SYSTEMS AND ENCLOSURES

Top-quality, research-engineered speaker enclosures and systems—selected by Allied's audio experts to give you maximum value. Each of the enclosures is available in mahogany, blonde or walnut to blend harmoniously with the decorative scheme of any room. Unfinished enclosures for "do-it-yourselfers" are also offered. Each speaker system has components installed and ready to use. Whether you live in a small apartment or spacious home, you'll find a system ideal for your specific needs.

EN-12 FOLDED HORN ENCLOSURES AND COMPLETE SPEAKER SYSTEMS

EN-12 ENCLOSURE. Popular, beautifully styled "cornerless corner" horn-loaded enclosure. May be used against a wall or in a corner, with equal effectiveness. Combines the best features of rear horn-loading, phase inversion, and direct radiator design. Speaker mounting board has pre-cut openings and adapter board to allow progressive expansion of speaker system.

Openings permit easy installation of mid-range and high-frequency tweeters. Interior panels are strongly braced for maximum rigidity, to eliminate rattling and "buzzing" at high-amplitude low-frequency signals. For any 12" extended-range speaker, or multiple speaker systems using 12" woofer, H-600 horn with T-30 mid-range and T-50 mid- and high-range driver, and 4401, UXT-5 or HF-206 tweeters. 30" high, 21½" wide and 15¾" deep. Choice of 3 handsome finishes. Shpg. wt., 60 lbs.

81 DZ 822, Mahogany, NET..... 74.48
81 DZ 823, Blonde, NET..... 77.91
81 DZ 819, Walnut, NET..... 77.91

EN-12 WITH UXC-123 INSTALLED. 12" University "Diffaxial" speaker with reciprocating-flare super-tweeter. Reproduces entire musical range with excellent fidelity. Built-in brilliance control permits exact adjustment to room acoustics. Frequency response, 45 to 17,500 cycles. Power handling capacity, 25 watts. Impedance, 8-16 ohms. In 3 finishes. Shpg. wt., 69 lbs.

81 DZ 820, Mahogany, NET..... 137.20
81 DZ 821, Blonde, NET..... 140.63
81 DZ 887, Walnut, NET..... 140.63

S-5 "SENIOR" 3-WAY SYSTEM. For highest quality performance where space is limited. Consists of folded horn enclosure described at left, with C12W woofer, H-600/T-30 mid-range combination, and UXT-5 super-tweeter, for superb reproduction. Handles up to 30 watts of integrated program material. Shpg. wt., 72 lbs.

81 DZ 893, Mahogany, NET..... 196.00
81 DZ 894, Blonde, NET..... 200.90
81 DZ 895, Walnut, NET..... 200.90

UNIVERSITY EN-15 SPEAKER ENCLOSURE AND SYSTEM

EN-15 ENCLOSURE. Improved version of an advanced design folded-horn enclosure. For use with 12" or 15" speaker. Mounting board is pre-cut for 15" speaker, with removable adapter cut for 12" speaker. For mid-range it accommodates an 8" speaker or the H-600 horn with T-30 driver; for treble, the 4401, UXT-5 or HF-206 tweeter, or the H-600 horn with the T-50 driver.

Internal construction is similar to EN-12, above. Projects maximum available output of speaker at low frequencies, without screening or blocking radiation of highs. Designed to eliminate resonances. Choice of 3 finishes. 37x29x20". Shpg. wt., 98 lbs.

81 DZ 914, Mahogany, NET..... 122.50
81 DZ 915, Blonde, NET..... 132.30
81 DZ 817, Walnut, NET..... 132.30

S-6 "MASTER" 3-WAY SYSTEM. Provides exceptionally fine music reproduction and occupies relatively small space; tonal range exceeds the limits of human hearing. System includes EN-15 enclosure, C15W 15" woofer, T-30 driver unit with H-600 horn for mid-range, and HF-206 Hypersonic tweeter for excellent high-frequency reproduction.

N-3 "Acoustic Baton" crossover network with Presence and Brilliance controls permits exact matching of speaker system response to room acoustics. System handles up to 50 watts of program material. May be placed in a corner, or against a wall. 37x29x20". Shpg. wt., 128 lbs.

81 DZ 824, Mahogany, NET..... 303.80
81 DZ 825, Blonde, NET..... 313.60
81 DZ 841, Walnut, NET..... 313.60

NEW UNIVERSITY "TROUBADOUR" SPEAKER ENCLOSURE & SYSTEM

EN-15LH ENCLOSURE. Solidly built, smartly styled lowboy enclosure featuring horn-loaded construction. Ideally suited for use with 12" or 15" speaker. Mounting board accommodates woofer; H-600 mid-range horn with T-30 or T-50 driver; 4401, UXT-5 or HF-206 tweeter.

Expertly designed, the "Troubadour" can be placed either in a corner or against a wall. Carefully finished in accordance with the highest standards of furniture manufacture. Choice of 3 finishes. Size: 29" high, 34" wide, 19" deep. Shpg. wt., 84½ lbs.

82 DZ 427, Mahogany, NET..... 136.71
82 DZ 428, Blonde, NET..... 141.61
82 DZ 429, Walnut, NET..... 141.61

S-12 "TROUBADOUR" 3-WAY SYSTEM. Superb 3-way 15" speaker system housed in the highly efficient enclosure described at left. Includes C-15 15" woofer, T-30 driver unit with H-600 wide-angle horn for mid-range, and HF-206 Hypersonic tweeter for superior high-frequency reproduction.

N-3 "Acoustic Baton" crossover network has Brilliance and Presence controls to permit precise adjustment of musical balance to match room acoustics. Offered in choice of 3 handsome finishes. Size, 29x34x19". Shpg. wt., 118 lbs.

82 DZ 430, Mahogany, NET..... 336.63
82 DZ 431, Blonde, NET..... 341.53
82 DZ 432, Walnut, NET..... 341.53

UNIVERSITY "CLASSIC" 3-WAY SPEAKER SYSTEMS

S-8 "CLASSIC." One of the finest speaker systems available, in smart lowboy design enclosure. System includes C15W 15" woofer; Cobreflex-2 mid-range horn with T-30 driver unit; HF-206 super-tweeter.

Also **N-3 "Acoustic Baton" crossover network**; has Presence and Brilliance controls for balancing sound of speaker system to acoustics of room in which it is placed. Enclosure is a highly efficient folded exponential horn, front-loading the 15" woofer for direct projection of bass frequencies toward the listener. Offered in 3 finishes. 34½x40½x25½". Shpg. wt., 230 lbs.

81 DZ 826, Mahogany, } NET
81 DZ 827, Blonde, } EACH..... 411.60
81 DZ 842, Walnut, }

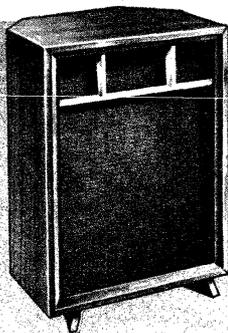
S-9 UTILITY "CLASSIC" SYSTEM. High-quality 3-way speaker components as at left, completely installed and wired inside utility enclosure which is the same as interior assembly of the EN-CB. Does not include base, frame, grille, or other exterior cabinetry. Constructed of ¾" white birch veneer plywood. May be installed behind partition, in wall, etc. Takes furniture finish. Supplied with speaker components mounted and connected. Self-contained folded horn permits placement anywhere in room. 40x30x24". Wt., 170 lbs.

81 DZ 904, NET..... 313.60

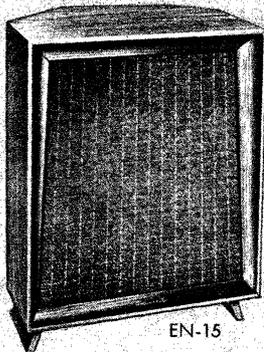
EN-CB UTILITY "CLASSIC" ENCLOSURE ONLY. Assembled, unfinished enclosure, less speakers. Shpg. wt., 135 lbs.

81 DZ 905, NET..... 117.60

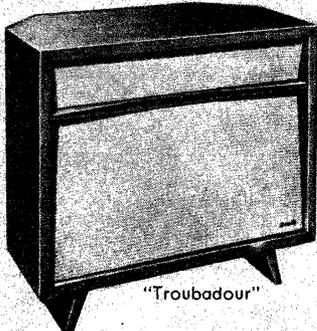
Letter Z in Stock Number Indicates Express Shipment Only



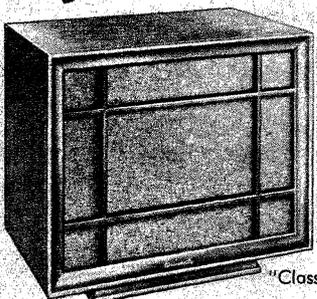
EN-12



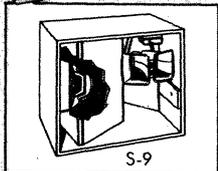
EN-15



"Troubadour"

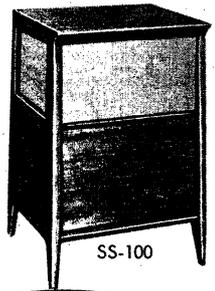
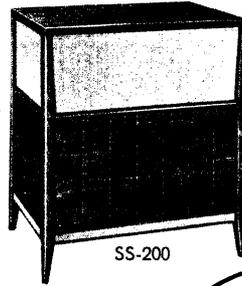
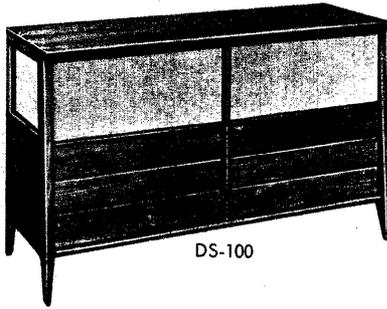


"Classic"



S-9

JENSEN HIGH-FIDELITY SPEAKER SYSTEMS AND ENCLOSURES



NEW "STEREO DIRECTOR" Speaker Systems

DS-100 DUAL 3-WAY SYSTEM. Two complete speaker systems in one enclosure—for outstanding stereophonic sound. Carefully engineered and constructed for rich, full bass, crisp treble and sparkling highs. A complete stereo reproducer in one gracefully styled contemporary cabinet.

Each of the two 3-way sections in this system consists of a "Stereo Director" unit and a 12" "Flexair" woofer. High-frequency "directors" can be easily rotated from open rear shelf to aim audio at the desired listening area. Besides its top performance as a stereo system, the DS-100 provides excellent, extended-coverage monaural sound. Speakers used (KT-233 kit) are on page 75.

Crossover frequencies are 600 and 4000 cps. Response is 20 to 15,000 cps. Impedance, (each channel): 16 ohms. Power capacity (each channel): 30 watts. Size (HWD), 31½x52x18¼". Shpg. wt., 125 lbs.

79 DZ 141. Mahogany. NET
79 DZ 142. Walnut. EACH... 369.50

SS-100 SINGLE 3-WAY SYSTEM. An ideal unit if you wish to start with an exceptionally fine monaural speaker system and add another for stereo later. Equal in performance to one of the sections of the DS-100 (described above). Employs "Stereo Director"—an important advance in audio design that eliminates the need for careful positioning of the enclosure for best stereo over a given area. Two SS-100 systems will deliver perfect reproduction even when placed along adjacent walls. Size (HWD), 31½x21x18¼". Shpg. wt., 56 lbs.

79 DZ 108. Mahogany. 79 DZ 109. Walnut. NET EACH... 179.95

SS-200 "CUSTOM" SINGLE 4-WAY SYSTEM. Finest of the quality Jensen "systems for stereo." Here is a truly deluxe speaker system that offers a new high in realistic audio reproduction. Beautiful "Flair-Line" styling incorporates clean, tasteful cabinet lines to complement any furnishing mode.

Used in pairs, "Custom" systems will deliver thrilling, life-like stereophonic sound. Advanced-design "Stereo Directors" provide complete flexibility of placement—put your systems in desired positions and rotate the "directors" for optimum stereo effect over any listening area. Convenient lift lids allow easy access to "directors."

Speakers used (KT-44 kit) are described on page 75. Crossover frequencies are 200, 400 and 4000 cps. Response is 16 cps to beyond audibility. Impedance: 16 ohms. Power handling capacity: 40 watts. Size (HWD), 36½x32¼x23". Shpg. wt., 132 lbs.

79 DZ 106. Mahogany. NET
79 DZ 107. Walnut. EACH... 439.50

NEW Monaural Speaker Systems

TP-250 "TRI-PLEX II" 3-WAY SYSTEM. An outstanding speaker system styled in sleek "Flair-Line" lowboy cabinetry. Provides a high standard of audio fidelity—can be used for monaural reproduction, or as one side of a stereo system. Speakers employed (KT-34 kit) are described on page 75. Crossover points at 600 and 4000 cps. Response: 16 cps to beyond audibility. Impedance: 16 ohms. Capacity: 40 watts. Size (HWD), 30½x34½x18¼". Shpg. wt., 107 lbs.

79 DZ 110. Mahogany. NET
79 DZ 111. Walnut. EACH... 294.50

BF-200 CABINET. "Bass-Superflex" enclosure used in TP-250. Shpg. wt., 70 lbs.

79 DZ 118. Mahogany. NET
79 DZ 119. Walnut. EACH... 129.75

TR-10 "TRI-ETTE" 3-WAY SYSTEM. Diminutive speaker system of exceptional quality—performs on a par with much larger units. Unique "Flair-Line" styling and the rich beauty of natural woods combine to complement any decor. May be placed either on its side or end. Has thick fiberglass lining. Speakers used (KT-33 kit) are described on page 75. 25-15,000 cps. 16 ohms. 30 watts, 60 watts peak. 13½x25x11¾". Less base, below, 45 lbs.

79 DU 114. Mahogany. 79 DU 115. Walnut. NET EACH... 114.50

ST-945 BASE. Complements appearance of "Tri-ette". 2" high. Shpg. wt., 5 lbs.
79 DX 116. Mahogany. 79 DX 117. Walnut. NET EACH... 5.45

CN-100 3-WAY SYSTEM. Provides performance completely beyond its cost and size. Employs KT-33 speaker kit (p. 75). 20-15,000 cps. 16 ohms. 30 watts, 60 watts peak. Size, 31½x21x18¼". Shpg. wt., 61 lbs.

79 DZ 112. Mahogany. NET
79 DZ 113. Walnut. EACH... 149.50

MODEL BF-100 ENCLOSURE. Same as enclosure of CN-100 system. Has tube-loaded port for extended bass. Takes 12" speaker, or 2 or 3-way systems. Shpg. wt., 41 lbs.
79 DZ 104. Mahogany. NET
79 DZ 105. Walnut. EACH... 69.50

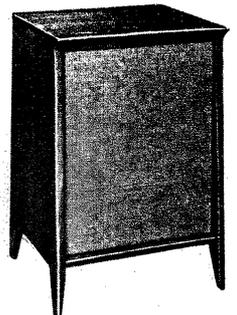
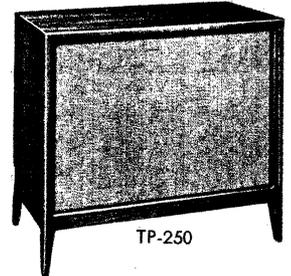
MODEL BF-100/H-222. Above enclosure with H-222 (p. 74) installed. Shpg. wt., 54 lbs.
79 DZ 102. Mahogany. NET
79 DZ 103. Walnut. EACH... 132.00

Quality Enclosure and Speaker System

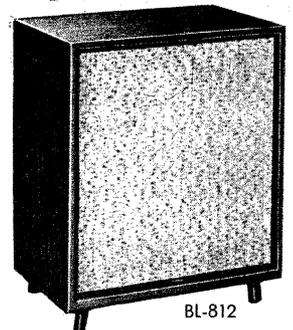
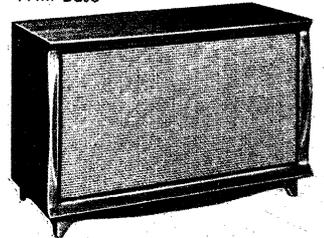
MODEL BL-812 ENCLOSURE ONLY. Clean-cut lines and classic styling characterize the BL-812 enclosure. Superior performance is attained through use of the unique "Bass-Ultraflex" acoustic design. Compact size makes it perfect for use where a larger enclosure cannot be installed. Accommodates any 8" or 12" speaker—also has cutouts to permit installation of Jensen 2-way system kits. Fine hardwood veneers.

24½x19x12¾". Shpg. wt., 26 lbs.
82 DU 362. Mahogany. NET
82 DU 364. Walnut. EACH... 59.50

MODEL BL-812/DX-120. Quality "Duax" speaker installed in the BL-812 enclosure. With balance control. Shpg. wt., 31 lbs.
79 DU 100. Mahogany. NET
79 DU 101. Walnut. EACH... 87.00

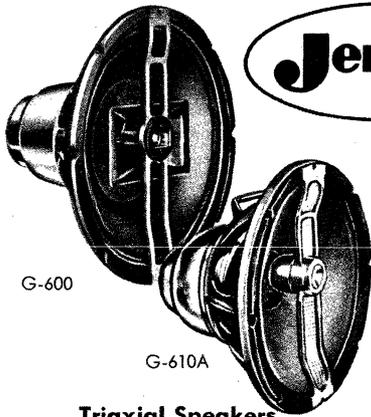


TR-10
With Base



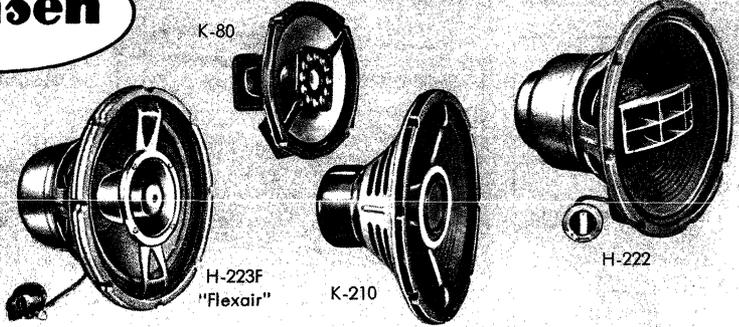
Jensen

HIGH-FIDELITY SPEAKERS



G-600

G-610A



K-80

H-223F
"Flexair"

K-210

H-222

Triaxial Speakers

MODEL G-610A 15" TRIAXIAL. An outstanding 3-way speaker. Has three elements, electrically and acoustically independent, built into a single unit, each designed for peak performance in its portion of the audio spectrum. Response, 25 cps to beyond audible range. Employs heavy woofer and two compression driver horn-loaded elements for mid-frequency and high-frequency channels. Includes dual crossover network with wired balance controls. Crossovers at 600 and 4000 cps. Capacity, 40 watts. Impedance, 16 ohms. Magnet weight, 6½ lbs. Depth, 10¾" Shpg. wt., 46 lbs.
82 DU 170. NET. 252.75

MODEL G-600 15" TRIAX. Embodying the same operating principles as the G-610A, the G-600 is a low-cost version with somewhat lighter construction. Highly efficient woofer employs a 3½ lb. magnet. Response, 30 cps to beyond audible range. Bore-mounted compression driver for mid-frequencies, has separate horn for 900-4000 cps range. New super-tweeter handles range from 4000 cps through the upper limits of audibility. Has dual crossover network with wired balance controls. Capacity, 35 watts. Impedance, 16 ohms. Depth, 11¼". Shpg. wt., 33 lbs.
82 DU 350. NET. 134.50

NEW MODEL H-223F 12" COAX SPEAKER WITH "FLEXAIR" WOOFER. A top-quality true 2-way coaxial speaker. Employs Jensen's new "Flexair" woofer for exceptional low-frequency response (to 20 cycles in BF-100 enclosure). Woofer cone with special damped suspension, is capable of extremely high movement without distortion, even in small enclosures. Features L-C crossover at 2000 cps to new, concentrically mounted, reflexed compression driver tweeter. Extends audio range to 15,000 cps. Provides crystal-clear treble reproduction. Power handling capacity, 30 watts. Impedance, 16 ohms. Baffle opening, 10¾". Depth, 7¾". Complete with wired-in balance control. Shpg. wt., 13 lbs.
79 DX 128. NET. 72.50

MODEL K-80 8" COAXIAL SPEAKER. A low-cost coax speaker that features electrically and acoustically independent woofer and tweeter units. Perfect for use wherever a small hi-fi speaker with excellent performance is needed. Electrical crossover from woofer cone at 3000 cycles, to high-frequency diffraction plate. Offers smooth, wide-angle high-frequency response. Magnet wt., ½ lb. Power handling capacity, 12 watts. Impedance, 16 ohms. Frequency response, 50 to 14,000 cps. Shpg. wt., 4 lbs.
82 D 354. NET. 17.75

MODEL K-210 12" COAXIAL SPEAKER. Economy-priced, 12" coax speaker. Its low cost and truly excellent audio reproduction make it ideal for use as a replacement unit in TV sets and radio consoles employing older, single-cone 12" speakers. Offers the same fine construction as the K-80 unit at left, but includes provision for easily adding the ST-901 high-frequency balance control described on page 75. Features direct-radiator tweeter unit and built-in electrical crossover network. Frequency response, 45 to 14,000 cps. Power handling capacity, 14 watts. Impedance, 8 ohms. Magnet wt., ½ lb. Shpg. wt., 7 lbs.
82 DX 062. NET. 27.50

MODEL H-222 12" COAXIAL SPEAKER. Highly popular 12" coaxial speaker. Provides unusual clarity of sound and wide range. Compression-driver tweeter is loaded by a 6-cell Hypex horn; insures maximum efficiency and wide-angle dispersion of high frequencies from 2000 to 15,000 cps. Features improved, two channel electrical crossover network. Crossover frequency, 2000 cps. Tweeter horn passes through the core of a heavy-duty 1¾ lb. magnet. Woofer covers 30 to 2000 cps. Includes high-frequency balance control. Capacity, 25 watts. Impedance, 16 ohms. Shpg. wt., 13 lbs.
82 DX 068. NET. 62.50

Unax & Duax Speakers—"P" Series & Flexair Woofers

UNAX SINGLE-ELEMENT SPEAKERS. Maximum performance at minimum cost with these low-cost, single-cone UX-series speakers. Excellent for use as hi-fi extension speakers, or as "starter" speakers in minimum-budget music systems. Cone is specially designed so that its center section provides excellent treble response, while the entire cone reproduces lows without "boominess". Viscous edge damping. Both of the UX speakers listed below employ magnets weighing ½ lb. Impedance, (both units), 8 ohms.

MODEL UX-80 8" SPEAKER. Frequency response, 50 to 12,000 cps. Power handling capacity, 12 watts. Shpg. wt., 4 lbs.
82 D 357. NET. 14.50

MODEL UX-120 12" SPEAKER. Frequency response, 40 to 12,000 cps. Power handling capacity, 14 watts. Shpg. wt., 5½ lbs.
82 DX 358. NET. 17.95

MODEL DX-120 DUAX 2-ELEMENT 12" SPEAKER. Better sound at lower cost—with this budget-priced speaker featuring two carefully coordinated cones, driven by the same voice coil. Both cones operate together up to a "mechanical crossover" at 4000 cps; the smaller high-frequency radiator cone is effective above 4000 cps. This type of speaker attains a wider frequency range than single-cone speakers of the same size. Can be expanded into a 2-way speaker system by adding the Model RP-103A compression-type tweeter described on page 75.

Resonance, 48-50 cps. Frequency response, 40 to 13,000 cps. Power handling capacity, 20 watts. Employs magnet weighing 1 lb. Impedance, 16 ohms. Depth, 7¾". Shpg. wt., 7½ lbs.
82 DX 355. NET. 27.50

"P"-SERIES WOOFERS. Low-frequency units, for use in 2 and 3-way speaker systems. Impedance of both units, 16 ohms.

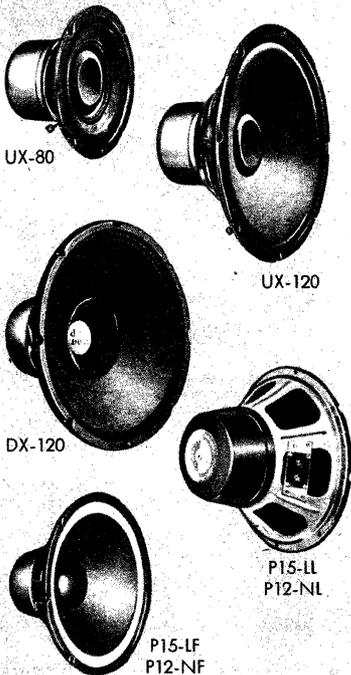
MODEL P15-LL 15" WOOFER. Provides smooth, bass range up to 600 cycles (2000 cps in 2-way systems). Frequency response is 30 to 2000 cps in bass-ultraflex enclosures, bass reflex enclosures, etc. Capacity, 35 watts. Employs 3½-lb. magnet. Viscous, edge-damped diaphragm. Resonance 35-37 cps. Depth, 8¾". Shpg. wt., 18 lbs.
82 DX 365. NET. 56.80

MODEL P12-NL 12" WOOFER. Ruggedly built, 12" low-frequency unit, specially designed for use in two-way speaker systems. Frequency response, 30 to 2000 cps. Viscous, edge-damped diaphragm. Power handling capacity, 25 watts. Employs 1¾-lb. magnet. Resonance, 35 cps. Depth, 7" Shpg. wt., 10 lbs.
82 DX 366. NET. 36.50

NEW "FLEXAIR" WOOFERS. Designed to extend bass response to the very bottom of the audio range—16 to 20 cycles. Special damping permits superlow resonances, high linearity and large cone movement.

MODEL P15-LF 15" WOOFER. Has frequency range (in Jensen Bass-Superflex enclosure). 16-2000 cps. Special damped suspensions permit double-peak excursions of 1" without distortion. Free-air resonance, 16 cps. Capacity, 40 watts. Impedance, 16 ohms. Shpg. wt., 18¼ lbs.
79 DX 129. NET. 69.75

MODEL P12-NF 12" WOOFER. Frequency range (in Jensen Bass Superflex enclosure). 20-2000 cps. Free-air resonance, 20 cps. Capacity, 30 watts. Impedance, 16 ohms. Shpg. wt., 8¾ lbs.
79 DX 130. NET. 42.00



UX-80

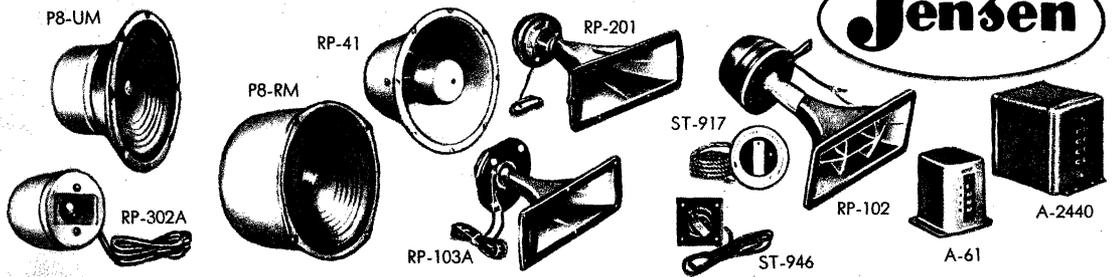
UX-120

DX-120

P15-LL
P12-NL

P15-LF
P12-NF

SPEAKERS, TWEETERS AND CROSSOVERS



NEW MODEL P8-UM 8" MID-RANGE SPEAKER. A low-cost, 8" direct-radiator, mid-range speaker. For reproducing the 600 to 4000 cps range. Employs closed housing for isolation; has DP-Alnico-5 magnet. For speaker systems up to 30 watts. Depth, 4 1/2". Impedance, 16 ohms. Shpg. wt., 3 lbs.

79 D 131. NET.....7.50

NEW MODEL P8-RM 8" MID-RANGE SPEAKER. An 8" direct-radiator, mid-range speaker for uniform output in the 200 to 4000 cps range. Ideal for mid-range use in 3-way systems and upper low-frequency range in 4-way systems. Employs closed housing for isolation; has 1/2-lb. DP-Alnico-5 magnet. For systems up to 40 watts. Depth, 4 1/8". Imp., 16 ohms. Wt., 4 lbs.

79 D 132. NET.....12.50

NEW MODEL RP-41 MID-RANGE HORN UNIT. A compression-driver, horn-loaded unit for highly efficient, uniform coverage of the 400 to 4000 cps range. Ideal for mid-frequency range in 3-way and 4-way speaker systems. Multiple-fold, re-entrant design eliminates extreme horn depth that is normally required. Spun aluminum outer shell. Capacity (with 400 or 600-cycle crossover), 40 watts. Impedance, 16 ohms. Overall diameter, 10 3/8". Depth, 7 1/4". Baffle cutout, 8 1/2" in dia. Shpg. wt., 5 1/2 lbs.

79 DX 133. NET.....42.50

NEW MODEL RP-103A COMPRESSION TWEETER. New, compression-driver, horn-loaded high-frequency unit for tweeter use in 2-way and 3-way speaker systems. For use with 2000 and 4000 cycle crossover networks. Frequency range, 2,000 to 15,000 cps. Power rating (with suitable crossover network), 30 watts. Impedance, 16 ohms. Die-cast horn flanged for panel mtg.; cutout 2x6", 3x7 1/2x6 3/8". Wt., 3 1/4 lbs.

79 D 134. NET.....16.50

MODEL RP-201 MID-RANGE UNIT. Reproduces the range from 600 to 4000 cps as the mid-channel unit in a 3-way speaker system. Compression-type, driver unit is loaded by a cast-aluminum Hypex horn. Has cloth-base, plastic diaphragm for internal damping. Angle of coverage, 115°. Capacity, 35 watts. For use with A-61 network, at right. Impedance, 16 ohms. Size: 4 3/4x11 1/2x14". Shpg. wt., 9 lbs.

82 DX 367. NET.....42.60

MODEL RP-102 TWEETER. Advanced-design, high-frequency unit for use in 2-way speaker systems crossing over at 2000 cps. Response, with A-204 crossover network, 2000 to 15,000 cps. Cast aluminum 6-cell Hypex horn, with cloth-base plastic diaphragm for internal damping. Capacity, 30 watts. Impedance, 16 ohms. Size, 4" high, 7 7/8" wide, 9/16" deep. Shpg. wt., 6 1/2 lbs.

82 DX 368 NET.....28.35

NEW MODEL RP-302A SUPER TWEETER. Jensen's latest and finest unit. Compression-driver, horn-loaded ultra-high-frequency tweeter for the frequency range above 4000 cps to inaudibility. For use in 3-way and 4-way speaker systems. Power rating (with suitable crossover network), 40 watts. Impedance, 16 ohms. O.D., 2 3/4"; 3 3/4" long. With mtg. plate. Wt., 2 1/4 lbs.

79 D 135. NET.....35.00

BALANCE CONTROLS. Adjustable, wire-wound L-pads, with bar knob and round brass escutcheon. Mount in 1 1/8" hole. Have 36° leads. Impedance, 16 ohms. Power capacity, 35 watts. Shpg. wt., 12 oz.

MODEL ST-917. For mid-frequencies.

82 D 372. NET.....5.25

MODEL ST-901. For high-frequencies. 25-watt capacity in 2-way speaker systems.

82 D 371. NET.....5.00

NEW BALANCE CONTROLS. For recessed mounting in 1 1/8" hole. Have 2 1/2" square escutcheon plate and bar knob. Impedance, both units, 16 ohms. Wt., 1/2 lb.

NEW MODEL ST-946. For adjusting output of tweeter in 2-way and 3-way systems with power rating up to 30 watts.

79 D 136. NET.....3.50

NEW MODEL ST-947. For mid and high-frequency units in 3-way and 4-way speaker systems with power rating up to 40 watts.

79 D 137. NET.....4.50

MODEL A-61 CROSSOVER NETWORK. Two-channel, 600-cycle type. Impedance, 16 ohms. 5 1/4x6 3/4x4 3/4". 5 1/4 lbs.

82 D 373. NET.....19.75

MODEL A-204 CROSSOVER NETWORK. Two-channel, 2000-cycle type. 16 ohms. 4 1/2x4 1/2x3 5/8". Wt., 3 lbs.

82 D 374. NET.....13.00

MODEL A-402 CROSSOVER NETWORK. As above, but crossover point is 4000 cps. 3 lbs.

82 D 375. NET.....10.90

NEW MODEL A-640 3-WAY CROSSOVER NETWORK. For 3-way systems. Crossover frequencies, 600 and 4000 cps. Cutoff slope, 12 db/octave. Power rating, 40 watts. 16 ohms. 5 1/4x7x4 5/8". Wt., 6 lbs.

79 D 139. NET.....32.00

NEW MODEL A-645 3-WAY CROSSOVER NETWORK. For 3-way systems. Crossover frequencies, 600 and 4000 cps. Power rating, 30 watts. 16 ohms. 2x4x5 1/4". 2 1/2 lbs.

79 D 138. NET.....15.00

NEW MODEL A-2440 4-WAY CROSSOVER NETWORK. For 4-way systems. Crossovers: 200, 400 and 4000 cps. Power rating, 40 watts. 16 ohms. 5 1/4x7x4 5/8". Wt. 6 1/4 lbs.

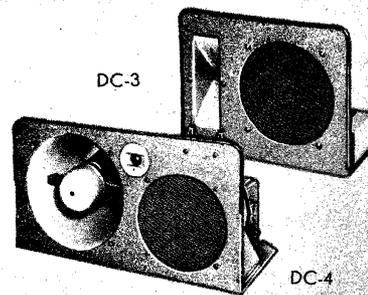
79 D 140. NET.....42.00

Jensen Speaker Component Kit Packages

For mounting into your own enclosure, installation in walls, closets, etc.; or in the BL-812 enclosure. The BL-812 houses any kit except KT-31 and KT-32, and the new KT-233 and KT-244 stereo kits. The modified P15-LL woofer and M-1131 equalizer used in the KT-31 are of special design and not sold separately. Include building plans, mtg. brackets and wiring.

Stock No.	Model	Description	Components	Lbs.	NET
82 DU 377	KT-21	2-Way Concerto	P15-LL woofer, RP-102 h-f tweeter, A-204 crossover, ST-901 bal. control	29	99.50
82 DX 378	KT-22	2-Way Concerto	P12-NL woofer, RP-102 h-f tweeter, A-204 crossover, ST-901 bal. control	19	73.00
79 DX 125	KT-24	2-Way Spkr. Kit	P12-NF Woofer, RP-103A h-f tweeter	18	72.50
82 DU 376	KT-31	3-Way Imperial	A-204 crossover, ST-946 bal. control Special P15-LL woofer, M-1131 equalizer, RP-201 & RP-302 tweeters, A-61 & A-402 crossovers, mid h-f balance controls	43	184.50
82 DU 382	KT-32	3-Way Triplex	P15-LL woofer, RP-201 & RP-302 tweeters, A-61 & A-402 crossovers, ST-901 & ST-917 balance controls	43	169.50
79 DU 120	KT-33	3-Way Spkr. Kit	P12-NF woofer, P8-UM mid-range unit, RP-103A tweeter, ST-946 balance control and A-645 crossover	21	80.00
79 DU 124	KT-34	3-Way Triplex II	P15-LF woofer, RP-41 m-f unit, RP-302A super tweeter, 2—ST-947 balance controls and A-640 crossover	37	179.50
79 DU 122	KT-44	4-Way Spkr. Kit	P15-LF woofer, P8-RM mid-range unit, RP-41 m-f driver, RP-302A super tweeter, 2—ST-947 balance controls and A-2440 crossover	41	192.50
79 DZ 121	KT-233	Stereo TWINKit	Two KT-33 speaker system kits (as described above), plus two DC-3 Stereo Director chassis	48	160.00
79 DZ 123	KT-244	Stereo TWINKit	Two KT-44 speaker system kits (as described above), plus two DC-4 Stereo Director chassis	99	385.00

NEW Stereo Director Chassis



NEW MODEL DC-3 STEREO DIRECTOR CHASSIS. For mounting mid and high-frequency units of the KT-33 speaker components package. Forms a Stereo Director assembly as used in the Model SS-100 3-way system (see page 73). Wt., 4 lbs.

79 DX 126. NET.....9.50

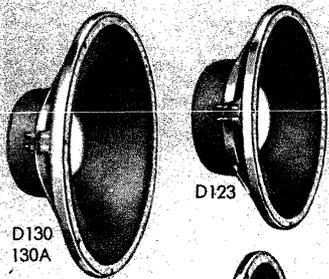
NEW MODEL DC-4 STEREO DIRECTOR CHASSIS. For mounting low, mid and high-frequency units of the KT-44 speaker components package. Forms a Stereo Director assembly as used in the Model SS-200 4-way system (see page 73). 10 lbs.

79 DX 127. NET.....15.95

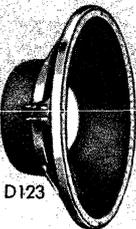


JAMES B. LANSING HIGH-FIDELITY SPEAKERS

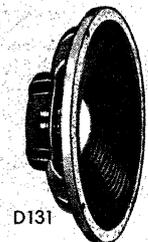
"Every note, a perfect quote"—with James B. Lansing Signature speakers. These famous high-fidelity speakers have gained an international reputation for their ability to reproduce sound with magnificent range and clarity. Precisely constructed throughout, they feature a 4" aluminum voice coil and hydraulically formed, 4" duraluminum center dome. The dural dome stiffens the piston assembly for crisp, clean bass and silk-smooth, extended highs, completely free from spurious sound effects. Curvilinear cone design makes possible a shallow piston assembly, which in turn, permits a better distribution of highs than a deep cone. JBL speakers reproduce verbatim, every sound recorded on the finest transcriptions.



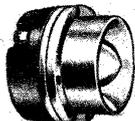
D130
130A



D123



D208
D216

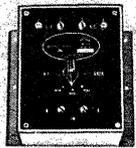


D131

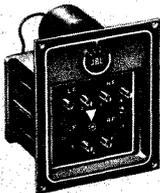
075 Tweeter



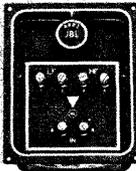
175 DLH Tweeter



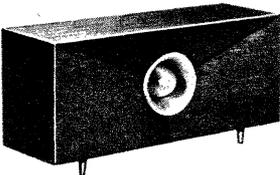
N1200



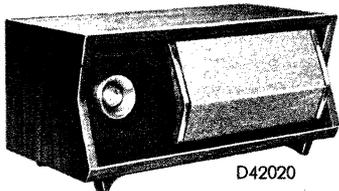
N2600



N2400
N7000



C41



D42020

Full Range Speakers

D130 15" SPEAKER. Heavy-duty, precision built speaker. Provides remarkably distinct bass and extremely smooth, extended treble when used alone. Can also be used as a woofer in two or three-way systems. Response ± 5 db, 30 to 17,000 cps. Capacity, 25 watts. Voice coil diameter, 4". Magnet weight 4 lbs. Free cone resonance, 37 cps. Voice coil impedance, 16 ohms. Depth, 5 1/2". Shpg. wt., 23 lbs.
82 DU 125. NET.....84.00

D131 12" SPEAKER. One of the finest 12" hi-fi speakers available. Excellent for use alone, or as a woofer in 2 or 3-way systems. Combines excellent design and construction to assure superb reproduction of sound. Response, 30 to 17,000 cps. Capacity, 20 watts. Magnet weight, 4 lbs. Free cone resonance, 39 cps. Voice coil diameter, 4". Impedance, 16 ohms. Depth, 5". Shpg. wt., 21 lbs.
82 DU 129. NET.....78.00

D123 12" SPEAKER. An extended-range 12" speaker with ultra-shallow frame design. Only 3 3/8" deep, it's perfect for custom in-the-wall mounting, or compact cabinet installation. Response, ± 5 db, 30 to 15,000 cps. Voice coil diameter, 3". Capacity, 20 watts. Free cone resonance, 35 cps. Impedance, 16 ohms. Magnet weight, 1 3/4 lbs. Shpg. wt., 12 lbs.
82 DX 112. NET.....59.40

D208 8" SPEAKER. Same excellent features as the D130 and D131, but for smaller installations. Response, 40 to 13,000 cps. Capacity, 12 watts. Free cone resonance, 55 cps. 2" voice coil, Impedance, 8 ohms. 1 lb. magnet. Depth, 2 7/8". Wt., 6 lbs.
82 D 126. NET.....29.70

D216, 8" SPEAKER. Same as D208, but has 16 ohms impedance.
82 D 113. NET.....29.70

Woofer, Tweeters and Crossover Networks

130A 15" WOOFER. Superb 15" low-frequency speaker designed to provide clean, distinct reproduction of audio frequencies below 1500 cps. Highly efficient, the 130A reproduces all bass and mid-range frequencies falling in this range with remarkable fidelity. Matched for use with the Model 175DLH high-frequency, driver-horn-lens assembly. Unique magnet design virtually eliminates stray magnetic fields adjacent to the magnetic pot structure. Rigid, cast aluminum frame. Response, ± 5 db, 30 to 1500 cps. Voice coil diameter, 4". Capacity, 25 watts. Free cone resonance, 36 cps. Magnet weight, 4 lbs. Voice coil impedance, 16 ohms. Depth, 5 1/2". Shpg. wt., 23 lbs.
82 DU 200. NET.....81.00

175DLH HIGH-FREQUENCY DRIVER-HORN-LENS ASSEMBLY. Provides highly precise reproduction above 1200 cps; unequalled transient response. Combines a high-frequency driver and an exponential horn, with a true acoustic lens. Consists of 14 separate elements arranged to form a double concave "lens"—refracts sound evenly over a solid 90° angle to all points in the listening area with equal intensity. Perfectly matched to the Jim Lansing Series 130, low-frequency speakers; designed for use with the N1200 dividing network. Power handling capacity, 25 watts. Voice coil impedance, 16 ohms. Horn throat diameter, 1". Mounting hole diameter, 5 3/8"; overall length, 11 1/2". Shpg. wt., 12 lbs.
82 D 130. NET.....124.50

075 "RING RADIATOR" HIGH-FREQUENCY TWEETER. Advanced-design, high-frequency driver for reinforcing the performance of extended-range speakers from 2500 cps to the limit of audibility. Adds "brilliance" to Jim Lansing D130, D131, D123 and D208 speakers when used with the Model N2600 dividing network. May also be used with N2400 crossover; converts 2-way system to 3-way when used with the N7000 crossover at right. Renowned for its remarkable presence and exceptional handling of transients, the precisely constructed 075 employs a unique diaphragm structure of hydraulically formed aluminum. Power handling capacity, 20 watts. Voice coil, 1 3/4". Dispersion, 90°. Voice coil impedance, 16 ohms. Baffle hole diameter, 3 3/8"; length, 3 1/4". Shpg. wt., 8 lbs.
82 D 118. NET.....59.40

CROSSOVER NETWORKS. All have nominal impedance of 16 ohms, except N2600 which has switch selection of 16 or 32 ohms at both LF and HF terminals.
N2600. For use with 075 tweeter and D130, D131, D123 and D208 speakers. Crossover, 2500 cps. 4 3/4 x 6 x 3 1/2". Wt., 3 3/4 lbs.
82 D 199. NET.....24.60

N2400. As above, but less dual-impedance feature. Shpg. wt., 3 1/2 lbs.
82 D 239. NET.....22.50

N7000. For use with 075 tweeter. Crossover, 7000 cps. 3 1/4 x 3 1/4 x 2 3/4". Wt., 3 lbs.
82 D 837. NET.....20.40

N1200. For use with 175-DLH driver-horn-lens assembly and 130A woofer. Crossover, 1200 cps. 4 3/4 x 6 x 3/4". Shpg. wt., 9 lbs.
82 D 131. NET.....35.25

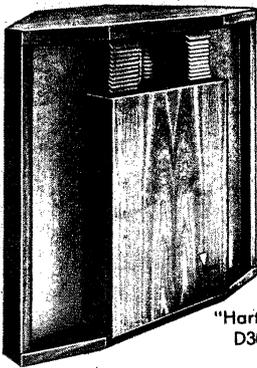
New Tweeter System and 2-Way Speaker System

C41 "ANGELUS" TWEETER SYSTEM. Smartly styled and highly functional high-frequency system. Compact enclosure houses the 075 "Ring Radiator" tweeter and N2400 crossover network. The combination of these 2 excellent components enables the user to extend the treble range of an existing speaker system to well beyond the limits of audibility—without the need for altering present enclosure. Provides ultra-smooth high-frequency response. As an added advantage, the Angelus tweeter system can be oriented toward the listening area for optimum high-frequency coverage. Made of selected hardwood veneers, hand-rubbed to a lustrous finish. Blend beautifully with any room decor. Impedance, 16 ohms. 6 3/4" high, 14" wide, 4 3/4" deep. Wt., 17 lbs.
82 DX 840. Mahogany. NET.....105.30
82 DX 842. Walnut. NET.....107.40

D42020 "BEL-AIRE" 2-WAY SPEAKER SYSTEM. For discriminating users who demand the highest possible quality from a speaker system of ultra-compact size. The distinctively styled "Bel-Aire" is perfect for use in pairs in stereo installations. Combines extremely attractive styling with careful attention to acoustic principles. Employs a special-design, extended-range 8" speaker; 075 "Ring Radiator" tweeter with level control; and N2400 crossover network.

Enclosure features acoustically damped reflex principle for crystal-clear reproduction across the entire audio range. Frequency response extends from 40 to 20,000 cps. Power handling capacity, 12 watts. Impedance, 16 ohms. 11 1/2" high, 24" wide, 12" deep. Shpg. wt., 35 lbs.
82 DU 233. Mahogany. NET.....166.20
82 DU 235. Walnut. NET.....170.40

ENCLOSURES & SYSTEMS



"Hartsfield"
D30085

"HARTSFIELD" D30085 SPEAKER SYSTEM. Impressive folded horn corner enclosure speaker system of remarkable fidelity. Employs 150-4C low-frequency driver, 375 high-frequency driver, rectangular exponential horn, N500H dividing network, plus the "serpentine" acoustical lens-horn assembly. Capacity, 60 watts, 16 ohms. HWD 45 $\frac{3}{4}$ " 47", 24 $\frac{1}{2}$ ", 250 lbs. *Shipped F.O.B. Chicago or Los Angeles, whichever is nearer.*
82 DZ 211. Mahogany. NET... 855.00
82 DZ 213. Light Walnut. NET... 885.00



C34

C34 ENCLOSURE ONLY. Rear-loaded, corner horn. Does not require corner placement. Contains a 6-ft. exponential folded horn that delivers an extra octave of beautifully defined bass. HWD: 39 $\frac{3}{4}$ x23 $\frac{3}{4}$ x22 $\frac{1}{4}$ ". Shpg. wt., 90 lbs. *Shipped F.O.B. Chicago or Los Angeles, whichever is nearer.*
82 DZ 204. Mahogany. NET... 151.00
82 DZ 206. Light Walnut. NET... 166.00

D34001 COMPLETE SPEAKER SYSTEM. Includes 130A 15" woofer, 175DLH driver-horn-lens assembly, N1200 crossover, installed in C34 enclosure. Capacity, 25 watts, 16 ohms, 135 lbs. *Shipped F.O.B. Chicago or Los Angeles, whichever is nearer.*
82 DZ 214. Mahogany. NET... 391.75
82 DZ 215. Light Walnut. NET... 406.75

"HARKNESS" C40 ENCLOSURE ONLY. Solidly built, rear-loading horn enclosure in contemporary low-boy design. Can be placed anywhere. Contains built-in, 6-ft. exponential horn, with mouth area of four square feet. Removable 5" legs. HWD: 28 $\frac{3}{4}$ x37 $\frac{3}{4}$ x20". 90 lbs. *Shipped F.O.B. Chicago or Los Angeles, whichever is nearer.*
82 DZ 201. Mahogany. NET... 151.00
82 DZ 203. Light Walnut. NET... 166.00

D40001 COMPLETE SPEAKER SYSTEM. Includes 130A 15" woofer, 175DLH driver-horn-lens assembly, N1200 crossover, installed in C40 enclosure. Capacity, 25 watts, 16 ohms, 135 lbs. *Shipped F.O.B. Chicago or Los Angeles, whichever is nearer.*
81 DZ 919. Mahogany. NET... 391.75
82 DZ 217. Light Walnut. NET... 406.75

C37 ENCLOSURE ONLY. Attractively styled, low-boy bass reflex enclosure. Engineered to deliver full-range response when used with recommended Jim Lansing components, below. Accommodates 12" or 15" woofer. Its modern styling blends happily with any room decor. 30 $\frac{1}{4}$ " high, 36" wide, 16" deep. Shpg. wt., 69 lbs.
82 DZ 116. Mahogany. NET... 115.00
82 DZ 169. Light Walnut. NET... 123.00

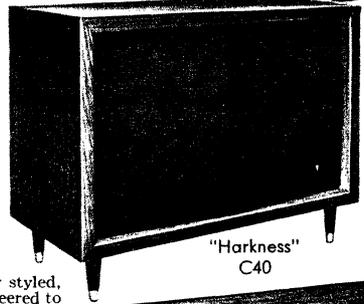
D37030 COMPLETE SPEAKER SYSTEM. Includes D130 as 15" woofer, 075 "ring radiator" tweeter, and N2600 dividing network with level control, mounted in the C37 reflex enclosure. Shpg. wt., 100 lbs.
82 DZ 222. Mahogany. NET... 283.00
82 DZ 220. Light Walnut. NET... 291.00

NEW C36 ENCLOSURE ONLY. Simple, gracefully styled bass reflex enclosure. For small rooms and apartments; use in pairs for stereo. Takes 8", 12" or 15" woofer. HWD: 29 $\frac{1}{2}$ x19 $\frac{3}{4}$ x15 $\frac{3}{4}$ ". Shpg. wt., 47 lbs.
82 DZ 844. Mahogany. NET... 63.00
82 DZ 846. Light Walnut. NET... 69.00

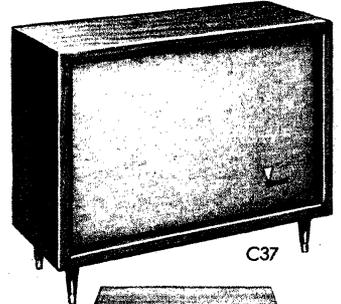
D36002 COMPLETE SPEAKER SYSTEM. Includes D123 12" speaker; 075 "Ring Radiator" tweeter; and N2600 crossover in the C36 enclosure. Power capacity, 20 watts. Impedance, 16 ohms. Shpg. wt., 68 lbs.
82 DZ 847. Mahogany. NET... 206.40
82 DZ 849. Light Walnut. NET... 212.40

C38 ENCLOSURE ONLY. Space-saving, low-boy bass reflex enclosure. Smart styling and rich, hand-rubbed finish complement any room interior. Takes 8", 12" or 15" woofer. Compact size allows it to be used almost anywhere. 26" high, 23 $\frac{3}{4}$ " wide, 15 $\frac{3}{4}$ " deep. Shpg. wt., 47 lbs.
82 DZ 114. Mahogany. NET... 63.00
82 DZ 168. Light Walnut. NET... 69.00

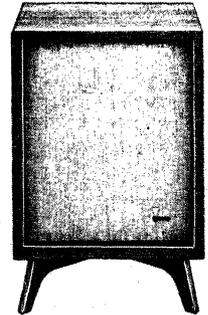
D38002 COMPLETE SPEAKER SYSTEM. Includes Model D123 as 12" woofer, 075 "ring radiator" tweeter, and N2600 dividing network with level control, mounted in the C38 enclosure. Shpg. wt., 68 lbs.
82 DZ 108. Mahogany. NET... 206.40
82 DZ 210. Light Walnut. NET... 212.40



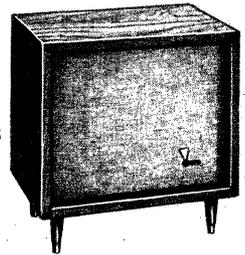
"Harkness"
C40



C37



C36



C38

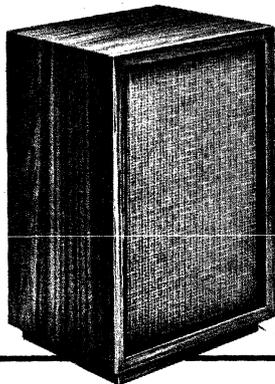
James B. Lansing Speaker System Kits for Custom Installation

Choice of six carefully matched speaker component kits, for installing in your own custom cabinetry or enclosure, or for building into walls or closets. The precisely designed JBL components provide superb reproduction. Each kit has a basic

speaker, a matching tweeter and a crossover network except JL-6, tweeter and crossover only. Kits include mounting hardware and complete instructions for quick, easy installation. For detailed description of all components, see page 76.

Stock No.	Model No.	Type of System	Description of Components	Wt., Lbs.	NET
82 DX 835	JL-1	2-way, 8" system	D216 8" speaker, 075 tweeter, N2400 crossover network	12	111.60
82 DU 838	JL-2	2-way, 12" system	D123 12" speaker, 075 tweeter, N2600 crossover network	19	143.40
82 DZ 839	JL-3	2-way, 15" system	D130 15" speaker, 075 tweeter, N2600 crossover network	30	168.00
82 DZ 834	JL-4	2-way, 15" system	130A 15" speaker, 175DLH high-frequency driver-horn lens assembly, N1200 crossover network	44	240.75
82 DZ 836	JL-5	3-way, 15" system	130A 15" speaker, 175DLH high-frequency driver-horn lens assembly, N1200 crossover network, 075 tweeter, N7000 crossover network	55	320.55
82 DX 843	JL-6	Hi-freq. "add-on"	075 tweeter and N7000 crossover network	7	79.80

NEW STEPHENS TRUSONIC SPEAKER SYSTEMS



816/80FR

UPRIGHT BASS-PLANE SYSTEM

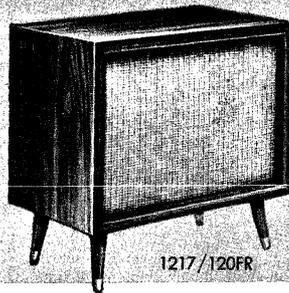
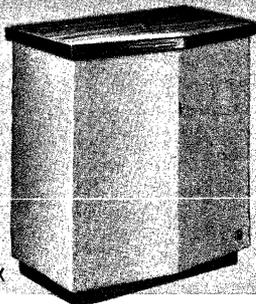
816/80FR. Economically priced high-fidelity speaker system designed to deliver clear, extended bass response. Features the attractively finished Model 816 bass reflex enclosure with the high-compliance, internally air-damped 80FR 8" speaker installed. May be used in a corner or against any wall without impairment of tonal quality.

Tastefully styled, the enclosure is constructed of genuine hardwood to eliminate vibration or rattling. The speaker employs advanced-design, free-cone suspension for exceptionally clean reproduction. Response of system extends from 40-15,000 cps.

In choice of mahogany or walnut furniture veneer. Handles up to 25 watts program material; 50 watts peak. 16 ohms. Magnet weight, 4 lbs. HWD: $24\frac{1}{2} \times 15\frac{3}{4} \times 11\frac{1}{4}$ ". Shpg. wt., 49 lbs.

79 DU 381. Mahogany. } NET
79 DU 382. Walnut. } EACH... 79.50

A-100/
120CX
B-100/
150CX



1217/120FR

SERIES 100 SPEAKER SYSTEMS

A-100/120CX. Combination of Model 120CX coaxial 12" speaker (includes built-in 5KT "Toroid" tweeter) and highly efficient Model A-100 enclosure. Speaker is installed, wired and ready to use. Delivers clean response from 30-25,000 cps. Available in choice of mahogany or walnut. Size: HWD, $33\frac{1}{4} \times 23\frac{3}{4} \times 17\frac{3}{4}$ ". Shpg. wt., 110 lbs.

79 DZ 377. Mahogany. } NET
79 DZ 378. Walnut. } EACH... 162.00

B-100/150CX. Superb 2-way 15" speaker system consisting of Model B-100 bass reflex enclosure and Model 150CX coaxial speaker. Free-cone construction combines with built-in 5KT "Toroid" tweeter to deliver remarkably smooth response over the entire range from 20-25,000 cps. System comes completely wired, ready to play. Size: HWD, $33\frac{1}{4} \times 31\frac{1}{4} \times 17\frac{3}{4}$ ". Shpg. wt., 120 lbs.

79 DZ 379. Mahogany. } NET
79 DZ 380. Walnut. } EACH... 219.00

LOW-BOY BASS-PLANE SYSTEM

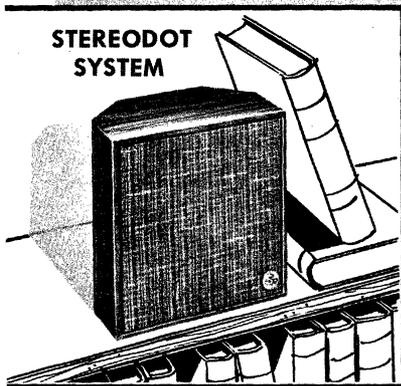
1217/120FR. Optimum performance and attractive low-boy styling with this speaker system. Consists of the Model 1217 enclosure and Model 120FR 12" high-fidelity speaker. Completely wired and ready to play, this system is ideal for placement along any wall or in a corner for rich, crystal-clear tonal response from 30 to 15,000 cps.

The high-compliance speaker is expertly designed to eliminate distortion and improve transient response. Features free-cone suspension for exceptional clarity.

Constructed of carefully selected, high quality hardwood, the enclosure assures superb reproduction, unmarred by cabinet resonance. Available in handsome mahogany or walnut to enhance the decor of any room. Handles 30 watts; 60 watt peaks. Imp., 16 ohms. Magnet weight, $9\frac{1}{2}$ lbs. Size: HWD, $25\frac{1}{2} \times 29\frac{1}{2} \times 11\frac{1}{4}$ ". Shpg. wt., 72 lbs.

79 DZ 383. Mahogany. } NET
79 DZ 384. Walnut. } EACH... 147.50

STEREODOT SYSTEM

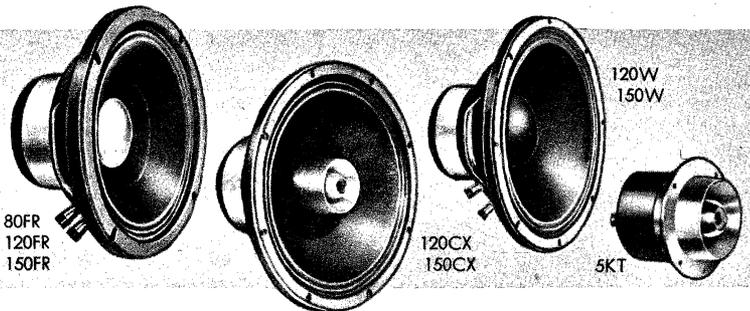


- Extremely Compact Speaker System
- Place Anywhere—Shelf, Table, Etc.
- Blends Beautifully with Any Motif

Use your present hi-fi speaker system as the foundation for a brilliantly-performing stereo speaker system with these ultra-compact "Stereodots." Consists of two special 8" speakers installed in enclosures, complete with one filter network and mid-channel level control. Each enclosure is only 9" high x 9" wide x 6" deep—an ideal pair for limited-space applications.

Expertly designed to provide exciting listening, the "Stereodots" deliver amazingly realistic reproduction from 200 to 15,000 cycles; your present speaker system serves as middle channel and also handles bass. Rated 25 watts program material, 50 watts peak. Impedance, 16 ohms. Available in choice of mahogany or walnut to complement any decorative scheme. Sold only in pairs. Shpg. wt., per pair, 24 lbs.

79 DU 391. Mahogany. PER PR... 169.50
79 DU 392. Walnut. PER PR... 169.50



80FR
120FR
150FR

120CX
150CX

120W
150W

5KT

FREE-CONE FULL-RANGE SPEAKERS

80FR 8" HIGH-FIDELITY SPEAKER. High-compliance, internally air-damped 8" speaker. Delivers clean, full-range sound from 40-15,000 cps. Capacity: 25 watts; 50 watts peak. 2" diameter, edge-wound aluminum voice coil. Maxwells, 80,000. Impedance, 16 ohms. Shpg. wt., $6\frac{1}{2}$ lbs.

82 DX 290. NET..... 31.50

120FR 12" HIGH-FIDELITY SPEAKER. Similar to above, but handles 30 watts. Response, 30-15,000 cps. 130,000 maxwells. Voice coil dia., $2\frac{1}{2}$ ". Shpg. wt., 15 lbs.

82 DX 291. NET..... 60.00

150FR 15" HIGH-FIDELITY SPEAKER. Similar to above, but handles 35 watts. Response, 20-14,000 cps. Maxwells, 180,000. Voice coil dia., 3". Shpg. wt., 25 lbs.

79 DU 385. NET..... 87.00

FREE-CONE COAXIAL SPEAKERS

120CX 12" HIGH-FIDELITY SPEAKER. Excellent 12" coaxial speaker featuring free-cone suspension for remarkably clean response from 30 to 25,000 cycles. Consists of woofer and built-in 5KT "Toroid" tweeter—complete with brilliance control network for crystal-clear reproduction. Voice coil dia., $2\frac{1}{2}$ ". Dispersion, 100°. Maxwells, 130,000. Power handling capacity, 30 watts. Shpg. wt., 20 lbs.

79 DU 389. NET..... 97.50

150CX 15" HI-FI SPEAKER. Superior performance over the entire audio spectrum from 20 to 25,000 cycles with this 15" coaxial speaker featuring free-cone suspension. Has built-in 5KT "Toroid" tweeter with brilliance control network. Voice coil dia., 3". Capacity, 35 watts. 100° dispersion. Maxwells, 180,000. Shpg. wt., 30 lbs.

79 DU 390. NET..... 129.50

HIGH-FIDELITY WOOFERS AND TWEETER

120W 12" WOOFER. Free-cone woofer delivering smooth response from 30-5000 cps. Has 24-oz. magnet. Capacity: 30 watts program; 60 peak. 15 lbs.

79 DU 386. NET..... 60.00

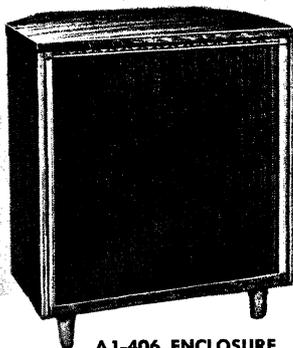
150W 15" WOOFER. As above, but 20-3500 cps response. 180,000 maxwells. Capacity: 35 watts; 70 peak. 25 lbs.

79 DU 387. NET..... 87.00

5KT "TOROID" TWEETER. Very efficient, low-distortion tweeter for crystal-clear treble response from 5000 to 25,000 cps. Ideal for use in 2 or 3-way speaker systems. Features built-in high-pass filter and adjustable brilliance control network—permits exact tonal quality desired. Requires $2\frac{1}{16}$ " dia. mtg. hole. Mtg. flange, 4" diameter. $4\frac{1}{8}$ " long. Shpg. wt., 4 lbs.

79 D 388. NET..... 49.50

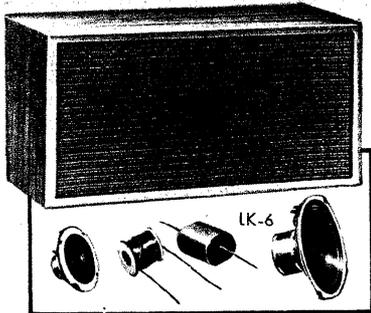
G.E. HI-FI SPEAKERS AND SPEAKER COMPONENTS



A1-406 ENCLOSURE

Delivers exceptional performance whether used in corners or placed against wall. Ideal for use with G.E. A1-401, S1201A, S1203A, or other 12" speakers. Features "distributed port" design to achieve highly effective damping and loading of speaker at low frequencies. Beautiful hand-rubbed veneers blend into any furnishing scheme. Back and sides are constructed of sturdy, carefully selected plywood; front is covered with a woven lumite cloth, 1" acoustic lining. Available in choice of mahogany or blonde oak. Size: 31 1/4" high, 25 3/4" wide, and 18 1/2" deep. Complete with mounting bolts for speaker. Shpg. wt., 49 lbs.

81 DZ 725. A1-406M. Mahogany.
81 DZ 726. A1-406B. Blonde Oak.
NET EACH **63.66**



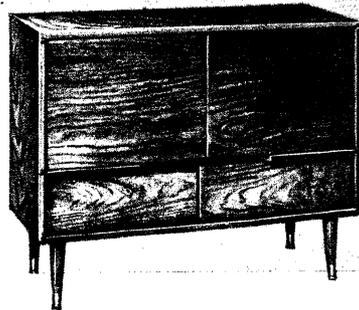
LH-6

"STEREO CLASSIC" SPEAKER SYSTEM

Attractively styled 2-way speaker system designed for limited-space applications as a shelf enclosure. Ideally suited for monoaural or stereo music systems. Features remarkably clean, extended bass response. Components installed are 6" high-compliance woofer, 2 3/4" tweeter and crossover network. Handles program material of up to 20 watts. Response, 50-15,000 cps. Impedance, 8 ohms. Size (HWD): 9x17 5/8x8 3/8". Shpg. wt., 16 lbs.

79 DU 200. LH-6-M. Mahogany.
79 DU 201. LH-6-B. Blonde Oak.
NET EACH **56.35**

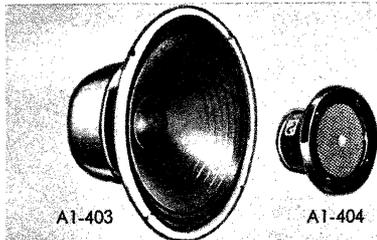
LK-6 "STEREO CLASSIC" SPEAKER COMPONENTS. Above, less enclosure. 4 lbs.
79 DX 202. NET **29.35**



"STEREO CLASSIC" HI-FI CABINET

A beautifully designed equipment cabinet featuring top-quality construction and exceptional versatility. Has two compartments behind dual doors and two record-storage compartments behind two sliding panel doors. Record-changer compartment is 14 1/2x20x16"; tuner and amplifier compartment (complete with wood shelf for desired positioning) is 14 1/2x17 1/2x16" (14 7/8" behind front panel supplied for custom mounting); each record-storage compartment is 6 1/2x18 3/4x14 7/8". With self-leveling, glide type legs with brass ferrules. 31x39 3/4x17 3/8". Wt., 70 lbs.

79 DZ 203. EQ-1. Mahogany.
79 DZ 204. EQ-2. Blonde Oak.
NET EACH **107.75**



A1-403

A1-404

MODEL A1-403 12" WOOFER. Efficient 12" woofer—improves reproduction below 1500 cycles in a 2 or 3-way speaker system. Has an electro-mechanical filter; requires no crossover network with A1-404 tweeter (below). Crossover, 1500 cycles. Response, 40-1500 cycles. Capacity, 25 watts. Imp., 8 ohms. Wt., 6 1/2 lbs.

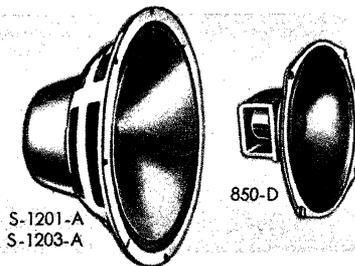
81 DX 843. NET **32.29**

MODEL A1-404. TWEETER. Compact tweeter with 100° dispersion. Matched for use with above or similar woofers in 2-way speaker systems. Response, 1500-15,000 cps. Capacity, 25 watts. Imp., 8 ohms. 4 3/8x2 1/2". Shpg. wt., 2 1/2 lbs.

81 D 855. NET **18.57**

MODEL A1-421 CROSSOVER NETWORK. (Not illustrated.) Provides 1500 cycle crossover when used with any 8-ohm tweeter and 8-ohm woofer. (Not required with A1-403, above.) Impedance, 8 ohms. Capacity, 25 watts. 6x4x4". Shpg. wt., 3 lbs.

81 D 856. NET **13.67**



S-1201-A
S-1203-A

850-D

MODEL S-1201-A 12" SPEAKER. This unusually popular 12" speaker has been highly recommended by nationally known consumer research organizations. Provides very clean, smooth frequency response over the range of 50 to 13,000 cps. Non-warping aluminum-base voice coil. Power handling capacity, 25 watts. Cone resonance, 70 cps. 14.5 oz. magnet. Imp., 8 ohms. Plastic magnet cover. Shpg. wt., 7 lbs.

81 DX 510. NET **24.45**

MODEL S-1203-A SPEAKER. Same as Model S-1201-A described above, but has 9 oz. magnet. Shpg. wt., 6 lbs.

81 DX 513. NET **19.55**

MODEL 850-D SPEAKER. An unusually fine, low-cost 8" speaker for replacement use in radios and TV sets. Also ideal for limited-space hi-fi systems. Response, 50-12,000 cps. Aluminum-base voice coil. 6.8 oz. magnet. Capacity, 15 watts. Impedance, 8 ohms. Shpg. wt., 3 lbs.

81 D 518. NET **10.73**



A1-401

MODEL A1-401 12" "GOLDEN CO-AXIAL" CO AXIAL SPEAKER. Highly popular, top-quality 12" hi-fi speaker at moderate cost. Ideal for high-fidelity installations and modernization of older systems. Combines a 12" woofer, 2 3/4" tweeter (with pressure equalizer to reduce distortion) and built-in mechanical-electrical crossover network into one easy-to-install unit.

Advanced design—provides remarkably smooth, extended response and wide dispersion. Unique slotted baffle plate serves as tweeter baffle and minimizes interference between tweeter and woofer units. In addition, the baffle plate has a highly attractive golden finish that provides a luxurious grille effect when custom mounted.

Crossover frequency, 1500 cycles. Frequency response, 40 to 15,000 cycles. Power handling capacity, 25 watts. Impedance, 8 ohms. Total magnet weight of 21.3 oz. Depth 6 1/8". Shpg. wt., 9 lbs.

81 DX 519. NET **49.25**

Bozak High-Fidelity Speaker Components

MODEL B-207A COAXIAL SPEAKER. This brilliant speaker uses a dual tweeter, the B-200X, mounted inside the B-199A 12" woofer. Designed specifically for infinite baffling, it provides true-pitch bass and clean transients. Frequency response, extends from 40 to 16,000 cps. With built-in crossover filter (6 db per octave). Cone resonance, below 40 cycles. Power handling capacity, 15 watts; 30-watt peaks. Impedance, 8 ohms. Sturdy, cast-aluminum frame fits either 12" or 15" cutouts. Depth behind panel, 7". Shpg. wt., 15 lbs.

81 DU 742. NET **83.85**

B-209 6" SPEAKER. Wt., 7 lbs.

81 D 743. NET **48.00**

B-199A 12" SPEAKER. Wt., 8 lbs.

81 DX 745. NET **49.50**

N-10102 CROSSOVER NETWORK. HWD: 5 1/2x8x6". Shpg. wt., 5 lbs.

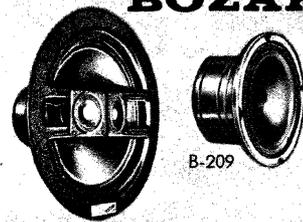
81 D 952. NET **27.50**

E-300 SPEAKER ENCLOSURE. HWD: 30 1/2x24x17". Shpg. wt., 50 lbs.

81 DZ 094. Mahogany. } NET

81 DZ 095. Birch. } EACH

81 DZ 096. Walnut. } **75.00**



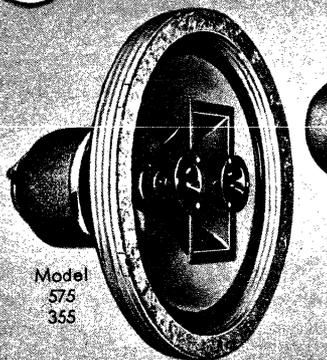
B-207-A

B-209

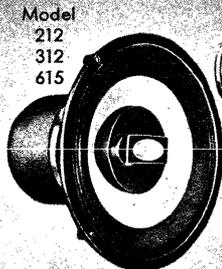
TOP-QUALITY HIGH-FIDELITY SPEAKERS AND SYSTEMS



GOODMANS



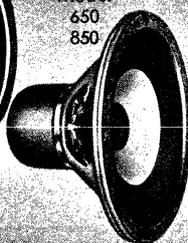
Model
575
355



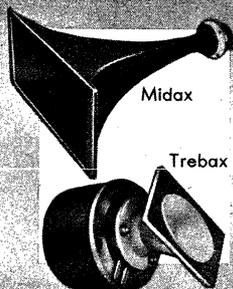
Model
212
312
615



Model
Axiette
II-8



Model
650
850



Midax

Trebax

New High-Fidelity Speakers Imported From England

An excellent selection of peak-performing hi-fi speakers. Each unit features custom craftsmanship and rigid, die-cast frame construction—your assurance of remarkably clean, flawless reproduction.

TETRAXIOM 575 15" 4-WAY SPEAKER

NET
\$227.85

\$22.79 Down

An outstanding 4-way speaker, custom-engineered to deliver superb reproduction. Has four electrically and acoustically independent elements built into a single unit. Response, 20 cps to beyond audible range. Employs heavy woofer, horn-loaded Midax mid-range unit and 2 Trebax high-frequency horns. Includes dual crossover network with wired balance controls. Cross-overs at 950 and 5000 cps. Capacity, 50 watts. Total flux, 308,000 maxwells. Voice coil dia.: 3" for woofer, 1½" for Midax, 1" for Trebax horns. Impedance, 16 ohms. Depth, 11". Shpg. wt., 50 lbs.

79 DZ 158. NET.....227.85

TETRAXIOM 355. As above, but has a capacity of 40 watts and a total flux of 240,000 maxwells. Shpg. wt., 45 lbs.

79 DU 159. \$19.26 Down. NET... 192.57

CROSSOVER NETWORKS

Top-performing crossover networks for use in Goodmans 2 and 3-way speaker systems. Imp., 16 ohms.

XL-5000V. 5000 cps crossover with level control. Wt., 3 lbs.

79 D 168. NET.....13.23

XL-950V. 950 cps crossover with level control. Wt., 4½ lbs.

79 D 169. NET.....26.95

XO-950/5000. Cross-overs at 950 and 5000 cps. Wt., 7½ lbs.

79 D 170. NET.....27.44

TRIAXIOM 3-WAY HI-FI SPEAKERS

Expertly designed 12" and 15" 3-way speakers delivering smooth response from 20 to 20,000 cycles. Feature plastic terminated, precision controlled, free-edge cone suspension for vibrant bass; concentric mounting of woofer, mid-range unit, and high-frequency Trebax horn for wide-angle dispersion; highly efficient magnet systems for minimum distortion and superior transient response. Mechanical crossover at 2000 cps. Variable control permits high-frequency adjustment. Voice coil diameters for woofer and mid-range, 3"; for Trebax horn, 1". Resonance: 35 cps for 12" speakers; 25 cps for 15". Impedance, 16 ohms.

MODEL 212 12" SPEAKER. Capacity, 25 watts. Total flux, 178,000 maxwells. Magnet wt., 1¾ lbs. Depth, 7". Wt., 20 lbs.

79 DX 160. Only \$6.81 Down. NET.. 68.11

MODEL 312 12" SPEAKER. Capacity, 35 watts. Total flux, 240,000 maxwells. Magnet wt., 3¼ lbs. Depth, 8¾". Wt., 31 lbs.

79 DU 161. Only \$9.07 Down. NET 90.65

MODEL 615 15" SPEAKER. Capacity, 50 watts. Total flux, 308,000 maxwells. Magnet wt., 6 lbs. Depth, 10". Wt., 46 lbs.

79 DU 162. \$14.41 Down. NET... 144.06

AXIETTE II-8" HI-FI SPEAKER

Highly efficient, wide-range 8" speaker at moderate cost. Delivers clean, remarkably smooth response over the entire audio spectrum from 30 to 18,000 cps. Features hyperbolic free edge cone suspension and heavy-duty, die-cast frame construction for optimum performance. Capacity, 15 watts. Resonance, 55 to 65 cps. Requires 7" baffle hole diameter. Depth, 4". Impedance, 16 ohms. Shpg. wt., 5 lbs.

79 D 163. Only \$2.65 Down. NET. 26.46

AUDIOM 12" AND 15" SPEAKERS

Advanced-design 12" and 15" woofers delivering exceptionally smooth bass and mid-range response from 20 to 5000 cps. Perfect choice for 2, 3 and 4-way stereo and monaural speaker systems requiring cross-overs at 200, 400, 600, 750, 950, 1200, 2500 or 5000 cycles. Virtually free edge cone suspension and die-cast frames. Imp., 16 ohms.

AUDIOM 650 12" SPEAKER. Voice coil diameter, 3". Total flux, 240,000 maxwells. Power capacity, 35 watts. Resonance, 30 to 35 cps. Shpg. wt., 24 lbs.

79 DU 164. Only \$6.81 Down. NET.. 68.11

AUDIOM 850 15" SPEAKER. Voice coil diameter, 3". Total flux, 240,000 maxwells. Power capacity, 40 watts. Resonance, 25 cps. Shpg. wt., 27 lbs.

79 DU 165. Only \$7.64 Down. NET 76.44

TREBAX 50 HI-FI TWEETER

Economically priced, high-frequency pressure driver with built-in elliptical horn for crystal-clear response from 2500 cps to the limit of audibility. Will handle 50 watts in two or three-way speaker systems with a recommended crossover of 5000 cycles. Employs a 1" aluminum voice coil and diaphragm in a self-aligning assembly with an air chamber and phase equalizer. Impedance, 16 ohms. Depth, 4". Wt., 5 lbs.

79 D 166. Only \$3.19 Down. NET 31.85

MIDAX H950 MID-RANGE TWEETER

Beautifully performing compression-type driver and horn. Handles 50 watts in 2 or 3-way speaker systems. Response, 400-13,000 cps. Recommended crossover: 950 cps in 2-way systems; 5000 cps in 3-way systems. 16 ohms. Depth, 12½". 13 lbs.

79 DX 167. Only \$4.75 Down. NET 47.53

Acoustic Research High-Fidelity Speaker Systems

AR-2 SPEAKER SYSTEM

Low-cost woofer-tweeter system for medium-priced hi-fi systems. Mounted in a sealed, fiberglass-filled cabinet of braced ¾" hardwood veneer. Employs the sealed-in air of cabinet as a pneumatic spring for the speaker cone during large excursions on very low bass notes. Requires 10 clean watts. Features 10" woofer and tweeter assembly composed of two 5" tweeters. Does not require a separate tweeter. Response (at 10 watts): ±5 db. 42-14,000 cps, down 10 db at 30 and 16,000 cps. Dispersion: 90° horizontal. Harmonic Distortion (at 10 watts): under 2% to 60 cps; under 3% to 50 cps. Impedance: 8 ohms.

Slightly smaller than the Model AR-1—13½x24x11". Shpg. wt., 35 lbs.

82 DU 038. Mahogany. Net.....96.00

82 DU 039. Blonde Birch. NET.....96.00

82 DU 255. Walnut. NET.....102.00

AR-1 SPEAKER SYSTEM

Radically different system featuring air-damped, 12" woofer, plus 8" mid-range and high-frequency unit and crossover network. Employs the same specially developed acoustic suspension and pneumatic damping operation as the Model AR-2 described at left—does not use conventional elastic suspension. Frequency Response: ±1½ db, 38 to 1000 cps; ±5 db, 30 to 13,000 cps. Impedance: 4 ohms. Amplifier Power Requirements: 20 clean watts for moderate level in an average room; at least 30 watts for high levels and large rooms. Size: 14x25x11½". Shpg. wt., 55 lbs.

82 DZ 033. Mahogany. NET.....185.00

82 DZ 034. Blonde Birch. NET.....185.00

82 DZ 253. Walnut. NET.....194.00

AR-1W. As above, but less 8" mid-range and treble unit. Shpg. wt., 47 lbs.

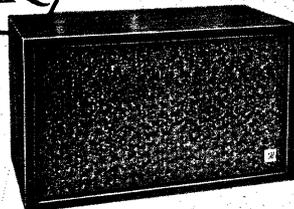
82 DZ 043. Mahogany. NET.....145.00

82 DZ 044. Blonde Birch. NET.....145.00

82 DZ 254. Walnut. NET.....154.00

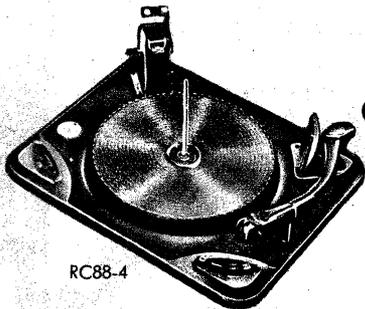


Model AR-2

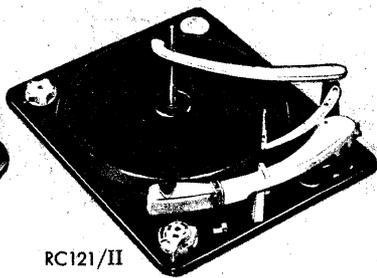


- Advanced Acoustic Design
- Provides Ultra-Clean Bass
- Space-Sparing Construction
- Beautiful Furniture Finish

HIGH-FIDELITY RECORD PLAYING EQUIPMENT



RC88-4



RC121/II



4HF

NEW

RC88-4 "TRIUMPH" CHANGER

NET \$5341
\$5.34 Down

Deluxe British-made changer combining latest design refinements with traditionally precise Garrard craftsmanship. Wired for stereo and monaural. Plays 16 $\frac{1}{2}$, 33 $\frac{1}{3}$, 45 and 78 rpm records. Automatic operation is quick and gentle; smooth-acting slide switch converts changer to manual operation instantly. Weighted turntable is covered by protective rubber pad; idler-wheel drive disengages when changer is off. Heavy-duty 4-pole motor and oversize traction wheel for silent, hum-free operation. Minimum mtg. space: 15 $\frac{1}{2}$ " W, 13 $\frac{1}{4}$ " D, 3 $\frac{3}{8}$ " below and 5 $\frac{3}{4}$ " above mounting board. With 2 plug-in heads, automatic spindle, spindle for manual play, 45-rpm manual spindle adapter, line cord and plug, output cable and phono plug. Less cartridges and 45-rpm automatic spindle. For 100-130 v., or 200-250 v., 60 cycle AC. Shpg. wt., 16 lbs.

89 RX 500. \$5.34 Down. NET..... 53.41

RC88/GC-7. As above, but with new G.E. GC-7 magnetic stereo cartridge. Less extra plug-in head. Shpg. wt., 16 lbs.

89 RX 501. \$7.69 Down. NET..... 76.88

RC98-4 "CROWN" CHANGER

Luxury version of RC88-4. Has all features listed above, plus speed compensation control. With 45-rpm automatic spindle. Less cartridges. Shpg. wt., 17 lbs.

89 RX 502. \$6.62 Down. NET..... 66.15

89 RX 503. RC98/GC-7. Above, with G.E. GC-7 stereo cartridge. NET..... 89.62

Complete Garrard Accessories

WOOD BASES. In mahogany, limed oak or walnut wood-grained finish. 4 lbs.

BASE FOR RC88-4, RC98-4. 3 $\frac{1}{4}$ x15 $\frac{3}{4}$ x13 $\frac{1}{4}$ ".

89 RX 600C. Specify Finish. EACH. 4.85

BASE FOR RC121/II. 3 $\frac{3}{4}$ x14 $\frac{1}{2}$ x12 $\frac{3}{4}$ ".

89 RX 601C. Specify Finish. EACH. 4.51

BASE FOR 4HF. 4 $\frac{1}{2}$ x17 $\frac{1}{2}$ x14 $\frac{3}{4}$ ".

89 RX 603C. Specify Finish. EACH. 4.95

BASE FOR 301. 6 $\frac{3}{8}$ x21x16 $\frac{3}{4}$ ".

89 RX 604C. Specify Finish. EACH. 21.75

BASE FOR T Mk II. 3 $\frac{3}{4}$ x14 $\frac{3}{4}$ x12 $\frac{3}{4}$ ".

89 RX 602C. Specify Finish. EACH... 4.51

WOOD MOUNTING BOARDS. Unfinished mounting boards drilled and cut for mounting Garrard units. Shpg. wt., 1 $\frac{1}{2}$ lbs.

Stock No.	For	EACH
95 RX 666	RC88-4, RC98-4	1.50
94 RX 496	RC121/II	1.50
96 RX 913	301	4.95
94 RX 956	T Mk II	1.50
89 RX 605	4HF	1.50

45-RPM AUTOMATIC SPINDLES. For automatic changing of 45-rpm records with large center holes. Shpg. wt., 10 oz.

95 R 664. For RC88-4. NET

94 R 594. For RC121/II. EACH 3.72

EXTRA PLUG-IN HEAD. Wired for stereo. Less cartridge. Shpg. wt., 6 oz.

89 R 550. For Garrard RC88-4, RC98-4 and T Mk II. NET..... 1.47

89 R 551. For RC121/II, 4HF. NET..... 1.47

RC121/II "RENEW" CHANGER

NET \$4165
\$4.17 Down

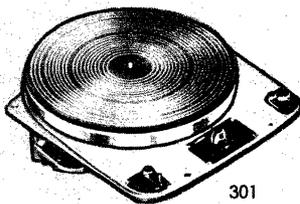
Latest version of Garrard's highly popular economy model, which has many of the RC88-4's fine features; excellent for budget high-fidelity systems or for replacement or modernization purposes. Completely wired for both stereo and monaural reproduction. Full manual operation, plus positive automatic intermix of 12", 10" and 7" records of the same speed. Action of changing mechanism is smooth and easy; records slip onto rubber-matted turntable silently and without "jamming", even if oversize.

Arm height and stylus pressure are easily adjusted from top of changer. Min. mounting space: 14 $\frac{1}{2}$ " W, 13" D; requires 4 $\frac{3}{4}$ " above and 3 $\frac{1}{8}$ " below mounting board. Supplied with plug-in head, line cord and plug, and output cable with phono plug. Less cartridges and 45-rpm automatic spindle. For operation from 100-130 volts, or 200-250 volts, 60 cycle AC. 14 lbs.

89 RX 504. \$4.17 Down..... 41.65

RC121/II/GC-7. Same as changer described above, but with G.E. Type GC-7 magnetic stereo cartridge installed. Cartridge has a diamond LP needle. See page 17 for accessory plug-in head with 78 rpm cartridge installed. Shpg. wt., 14 lbs.

89 RX 505. \$6.51 Down. NET..... 65.12



301

301 "PROFESSIONAL" TURNTABLE

NET \$8722
\$8.72 Down

The finest product of Garrard craftsmanship, this turntable meets the most rigorous standards for professional instruments of its kind. Each turntable is supplied with a full report of its factory test. Operates at 33 $\frac{1}{3}$, 45 and 78 rpm speeds. With strobe card.

An integral lubrication system forces additional lubricant, under pressure, into mechanism at the flick of a knob. A resistor-capacitor network prevents shutoff noise from being transmitted through the system and amplified; a shutoff brake prevents "free-wheeling" of turntable after it is switched off. Dynamically-balanced, precision-machined turntable of cast aluminum is entirely non-magnetic. Less than 0.2% wow; flutter is less than .05%. Vibration-proof mounting on special springs.

Size, 16x13 $\frac{3}{4}$ "; requires 2 $\frac{1}{2}$ " above, 3 $\frac{1}{2}$ " below mounting board. For operation from 100-130 or 200-250 v., 60 cycle AC. Shpg. wt., 20 lbs.

96 RZ 912. \$8.72 Down. NET..... 87.22

NEW 4HF MANUAL PLAYER

NET \$5831
\$5.83 Down

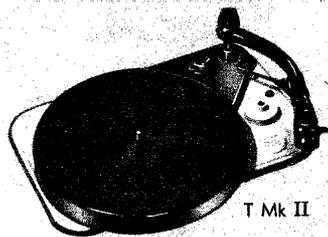
A deluxe manual record player with 12" turntable and transcription tone arm mounted on a single unit plate. Factory-wired to reproduce both stereo and monaural discs. Plays 16 $\frac{1}{2}$, 33 $\frac{1}{3}$, 45 and 78 rpm recordings. Its quality features include: variable "plus" or "minus" speed adjustment on each of the four speeds; automatic "start-stop" built into tone arm—lift tone arm to start, replace on rest to stop; center spindle housing with pressure lubricating system; heavy duty turntable; push-button control for auto-trip mechanism; and "TPA/12 inspired" transcription tone arm with plug-in shell. accommodates all records up to 16".

Handsome finished in black, white and chrome to blend with any custom installation. Min. mounting space: 17 $\frac{1}{4}$ " W, 13 $\frac{1}{4}$ " D, 3 $\frac{1}{2}$ " above and 3 $\frac{3}{8}$ " below mtg. board. Less cartridge. For 110-130 or 200-250 volts, 60 cycle AC. Shpg. wt., 15 lbs.

89 RX 508. \$5.83 Down. NET..... 58.31

4HF/GC-7. Same as player described above, but with G.E. Type GC-7 magnetic stereo cartridge installed. Cartridge has a diamond LP needle. See page 17 for accessory plug-in head with 78 rpm cartridge installed. Shpg. wt., 14 lbs.

89 RX 509. \$8.18 Down. NET..... 81.78



T Mk II

T Mk II "CREST" MANUAL PLAYER

NET \$3185
\$3.19 Down

A famous Garrard manual player now including these outstanding features—plays 16 $\frac{1}{2}$, 33 $\frac{1}{3}$, 45 and 78 rpm recordings; completely wired for both stereo and monaural reproduction; heavy, rubber-padded steel turntable; accurate-tracking pickup arm; safety arm rest and lock for maximum ease of portability.

Offers record-reproducing features of the changers above, at nominal cost. 4-pole motor is exceptionally smooth and quiet; dependable beltless drive. Motor starts when arm is lifted—shuts off at end of record. Min. mounting space: 14 $\frac{3}{4}$ " W, 12 $\frac{1}{2}$ " D, 3" above and 2 $\frac{1}{8}$ " below mounting board. Less cartridge. With 2 plug-in heads (1, when purchased with cartridge installed). For 100-130 or 200-250 v., 60 cycle AC. Shpg. wt., 14 lbs.

89 RX 506. \$3.19 Down. NET..... 31.85

T Mk II/GC-7. As above, but with G.E. GC-7 magnetic stereo cartridge. 14 lbs.

89 RZ 507. \$5.53 Down. NET..... 55.32



"Imperial" Series

"Imperial" Series 1931 4-Speed Diskchangers

AS LOW AS \$44.10
\$4.41 Down

Latest version of the world-famous "Imperial" Diskchanger—now completely wired for both stereo and monaural reproduction. Feature precision workmanship, four playing speeds, and ultra-convenient operation. "Magic Mind" allows intermix of 33 $\frac{1}{3}$ and 45-rpm records in 7", 10" and 12" sizes—it changes records and selects 33 $\frac{1}{3}$ or 45 rpm speed automatically. Also intermixes 10" and 12" 78-rpm records automatically.

Other features include: stereo-monoaural switch; automatic motor shut-off after last record; powerful 4-pole motor; top-of-arm stylus pressure adjustment; illuminated speed selector; 9 $\frac{1}{2}$ " rubber-matted turntable; manual tone arm handle. Attractive golden beige and brown finish. Mounting space: 14 $\frac{1}{16}$ " wide, 13 $\frac{1}{2}$ " deep; 5 $\frac{1}{2}$ " above, 4" below board. With two 36" phono cables, AC cord and plug. Less base, below. For 110-120 volts, 60 cycle AC. 11 $\frac{1}{2}$ lbs.

TR1931-21. Has G.E. GC-7 magnetic stereo cartridge—diamond LP needle. See page 84 for accessory 78-rpm needle. **89 RX 513. Only \$6.25 Down. NET. 62.47**

TR1931-1. Has ceramic, turnover stereo cartridge (.0007" diamond stylus for stereo and monaural LP's and .003" sapphire stylus for standard). **89 RX 514. Only \$5.70 Down. NET. 56.97**

TR1931-27. Less cartridge, but with two plug-in heads. Accommodate any conventional cartridges. See pages 84, 86, 88, and 89 for cartridge listings. **89 RX 512. Only \$4.41 Down. NET. 44.10**

"IMPERIAL" DELUXE FEATURES

Stereo-Monoaural Switch

Exceptionally valuable convenience feature. Simply flick a switch for full-range and best fidelity when playing monaural records through your stereo or monaural hi-fi system.

Illuminated Speed Selector

Beautifully styled, easy-action speed selector. Remains illuminated when changer is turned on to spotlight desired speed of records. Adds a distinctive contrast to attractive finish of "Imperial" record changer.

Weight Adjustment

Convenient counterbalance located on top of tone arm permits adjustment of stylus pressure from 5 to 11 grams. Sensitive tracking force adjustment minimizes record-stylus wear.

Versatile Tone Arm

Incorporates quality features found in professional-type tone arms. Includes: easy-grip handle; lightweight construction; and attractive styling. The tone arm handle permits you to carefully set arm on record when using the "Imperial" for manual play operation—prolongs record life and need service.



"Custom" 1941 and 1942 Series 4-Speed Diskchangers



"Custom" Series on Metal Base

AS LOW AS \$367.10
\$3.67 Down

Economy version of the "Imperial" series above. "Magic Mind" feature provides fully automatic intermix of 33 $\frac{1}{3}$ and 45-rpm records of all sizes. Uses exclusive Webcor precision-built motor to assure smooth, constant turntable speed. Additional features include: stereo-monoaural switch; adjustable stylus pressure; automatic shut-off after last record; 8" rubber-matted, dynamically balanced turntable. Four speeds played are 33 $\frac{1}{3}$, 45 and 78 rpm—plus 16 $\frac{2}{3}$ rpm for "Talking Book" records.

TR1941-1 and TS1942-1 have 2-pole motor; TS1942-21 and TR1941-21 have 4-pole motor. All units have handsome golden beige and brown finish. Size, with base, 9x14 $\frac{3}{4}$ x13 $\frac{1}{4}$ ". Minimum mounting space of models without base; 14 $\frac{1}{16}$ " wide, 13 $\frac{1}{2}$ " deep; require 5 $\frac{1}{2}$ " above, 4" below mounting board. See accessories listed below. Supplied with two 36" audio cables and AC line cord and plug. For 110-120 volts, 60 cycle AC.

TS1942-1. Has ceramic, turnover stereo cartridge with sapphire styli (.0007" stereo and monaural LP's and .003" for 78's). On metal base. Wt., 15 lbs. **89 RX 515. Only \$4.30 Down. NET. 43.00**

TS1942-21. As above, but has 4-pole motor and includes G.E. CL-7 magnetic stereo cartridge. Has .0007" sapphire needle for stereo and monaural LP's. Shpg. wt., 15 lbs. **89 RX 517. Only \$5.04 Down. NET. 50.35**

TR1941-1. Same as Model TS1942-1, above, less base. Shpg. wt., 10 $\frac{1}{2}$ lbs. **89 RX 516. Only \$3.67 Down. NET. 36.71**

TR1941-21. Same as Model TS1942-21, above, less base. Shpg. wt., 10 $\frac{1}{2}$ lbs. **89 RX 518. Only \$4.41 Down. NET. 44.06**

WEBCOR DISKCHANGER ACCESSORIES

METAL BASE. Highly attractive and durable metal base for Webcor record changers. Finished in rich-looking brown to harmonize beautifully with golden beige and brown finish of "Imperial" and "Custom" series Diskchangers listed above. Excellent for table-top or shelf use; underside of record changer is effectively sealed against dust. Mounting of changer is quick and easy. Shpg. wt., 4 lbs. **89 RX 606. NET. 5.68**

PRE-CUT MOUNTING BOARD. Pre-cut, heavy plywood mounting board for Webcor "Imperial" and "Custom" series record changers. Ideal for custom installing changers, or to replace old mounting boards when modernizing existing high-fidelity systems. Board is unfinished; may be stained or finished to match color of cabinet. Has pre-drilled holes for easy installation. Overall size, 15 $\frac{3}{4}$ x13 $\frac{3}{4}$ x $\frac{1}{2}$ ". Shpg. wt., 3 lbs. **95 RX 767. NET. 1.96**

AUTOMATIC 45-RPM SPINDLE. Automatically changes 45-rpm records without need for individual spider adapters in each record. Easily slips over center spindle of Webcor changers for conversion to fully automatic 45-rpm changing action. Wt., 8 oz. **89 R 552. NET. 2.94**

45-RPM SPIDER INSERTS. Lightweight metal inserts, easily snapped into place in large center-hole of 45-rpm records. Small center-hole in adapter permits use of 45-rpm records on any conventional turntable which will operate at 45 rpm speed, but which does not have large spindle. Shpg wt., package of 10, 6 oz. **96 R 471. Pkg. of 10, NET. 46c**

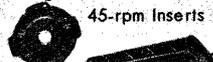
EXTRA PLUG-IN HEAD. Plug-in head for Model TR1931-27 record changer. Accommodates most stereo and monaural cartridges. Less cartridge. Shpg. wt., 6 oz. **89 R 553. NET. 78c**



Metal Base



Unfinished Mounting Board



45-rpm Inserts



45-rpm Spindle



Plug-in Shell

HIGH-FIDELITY RECORD CHANGERS AND TURNTABLES

Collaro



TSC-740
On Base



TSC-840
On Base



TP-59



4TR200

New Turntables

MODEL TP-59 TURNTABLE WITH ARM

Low-cost, 4-speed manual player for stereo or monaural use. Plays 16 $\frac{2}{3}$, 33 $\frac{1}{3}$, 45 and 78-rpm records. Features include: heavy, 12" rubber-covered turntable; 4-pole dynamically balanced motor; transcription-type tone arm with plug-in shell; automatic start and stop mechanism. Accepts all standard stereo and monaural hi-fi cartridges. Size: 13 $\frac{1}{2}$ x12", 3" above, 3 $\frac{1}{2}$ " below mounting board. Less cartridge. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 15 lbs.

89 RX 521. Only \$4.17 Down. NET 41.65

MODEL 4TR200 TURNTABLE

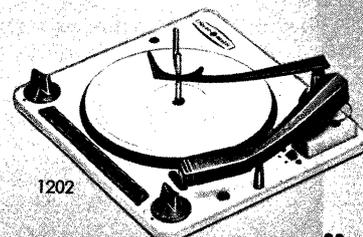
Moderately priced, professional-quality 12" turntable. Features a non-magnetic, rubber-matted turntable weighing 8 $\frac{1}{2}$ lbs. Precision machined and engineered for extremely low levels of wow and flutter. Plays all four speeds—16 $\frac{2}{3}$, 33 $\frac{1}{3}$, 45 and 78 rpm. Has heavy-duty 4-pole motor and 4-idler drive system. Speed change switch has "Off" position between each speed—stops motor during speed change. Attractive black panel.

Size, 12 $\frac{1}{2}$ x12 $\frac{1}{2}$ ", 3" above, 3 $\frac{1}{2}$ " below mtg. board. For 110-120 v., 60 cycle AC. Shpg. wt., 12 lbs.

89 RX 525. Only \$2.89 Down. NET 28.91



1226
On Base



1202

"CORONATION" TSC-740 CHANGER

Quality 4-speed changer, wired for stereo or monaural use. For automatic record changing, stack 7", 10", and 12" records in order of decreasing size—"Sensi-magic" feature determines record size before setting record down. Features: two-piece transcription-type arm; 4-pole motor; choice of 16 $\frac{2}{3}$, 33 $\frac{1}{3}$, 45 and 78 rpm speeds; automatic shut-off after last record; heavy, rim-weighted turntable; "muting switch" and "pop-filter"; 2-tone finish. 12x13 $\frac{1}{2}$ "; requires 5" above, 2 $\frac{1}{4}$ " below mounting board. Less cartridge; less base. For 110-120 volts, 60 cycle AC. Shpg. wt., 15 lbs.

89 RX 521. Only \$4.17 Down. NET 41.65

TSC-740-GC-7. As above, with G.E. GC-7 stereo cartridge (diamond LP needle).

89 RX 522. Only \$6.51 Down. NET 65.12

COLLARO ACCESSORIES

BASES. 15 $\frac{3}{4}$ x13 $\frac{1}{4}$ x4". Av. wt., 3 lbs. Specify mahogany, limed oak or walnut finish.

89 RX 607C. For Changers. } NET
89 RX 608C. For TP-59. } EA... 4.95
89 RX 609C. For 4TR200 }

UNFINISHED MOUNTING BOARDS. 15 $\frac{3}{4}$ x13 $\frac{1}{4}$ x $\frac{1}{2}$ ". Shpg. wt., 1 $\frac{1}{2}$ lbs.

91 RX 556. For Changers. } NET
89 RX 610. For TP-59. } EA... 1.50
89 RX 611. For 4TR200 }

45-RPM SPINDLE. For changers, 1 $\frac{1}{2}$ lbs.

93 R 483. NET..... 3.23

EXTRA PLUG-IN HEAD. For TSC-740, TSC-840, TP-59, 6 oz.

89 R 555. NET..... 1.92

"CONTINENTAL" TSC-840 CHANGER

Deluxe 4-speed record changer for stereo or monaural reproduction. Features rapid loading of 7", 10", and 12" records—and permits them to be intermixed! Has newly designed two-piece transcription-type arm free of audio spectrum resonances. Other features include: Less than 0.25% flutter; micro-finished motor shaft; 4 speeds—78; 45, 33 $\frac{1}{3}$, and 16 $\frac{2}{3}$ rpm; rim-weighted, balanced fly-wheel action; extra heavy-duty 4-pole, shaded-pole motor; manual switch for turntable operation; "muting switch"; "pop filter", automatic shut-off; removable rubber mat; automatic idler disengagement. Attractive two-tone finish. Size, 12" wide by 13 $\frac{1}{2}$ " deep. Requires 5" above, 2 $\frac{3}{4}$ " below the mounting board. Supplied less cartridge and less base. For operation from 110-120 v., 60 cycle AC. Wt., 15 lbs.

89 RX 523. Only \$4.85 Down. NET 48.51

TSC-840-GC-7. As above, with G.E. GC-7 stereo cartridge (diamond LP needle).

89 RX 524. Only \$7.20 Down. NET 71.98

"CONQUEST" TSC-640 CHANGER

(Not Illus.) Economy-priced 4-speed record changer wired for stereo or monaural use. Similar to TSC-740, but has one-piece transcription-type tone arm. Will accept all standard hi-fi cartridges. Two-tone finish 12x13 $\frac{1}{2}$ "; requires 5" above, 2 $\frac{3}{4}$ " below mtg. board. Less cartridge and base. For 110-120 v., 60 cycle AC. Shpg. wt., 15 lbs.

89 RX 519. Only \$3.77 Down. NET 37.73

TSC-640-GC-7. As above, but with G.E. GC-7 stereo cartridge (diamond LP needle).

89 RX 520. Only \$6.12 Down. NET 61.20

New V-M "Voice of Music" Hi-Fi Record Changers

Outstanding 4-speed record changers offering quality construction and many advanced features. Have stereo-monoaural switch for full-range and best fidelity when playing monoaural records through your stereo or monoaural hi-fi system. Modern styling matches any decorative scheme; economically priced to suit any budget.

MODEL 1226 RECORD CHANGER

Low-cost 4-speed changer for stereo or monoaural reproduction. Features: stereo-monoaural switch; 4-pole motor; one-piece tone arm with ceramic stereo turnover cartridge (sapphire LP and sapphire standard styli); handsome black and white with gold trim styling; automatic shut-off after last record; Tri-O-Matic spindle; etc. 8 $\frac{3}{4}$ x13 $\frac{1}{4}$ x12 $\frac{3}{8}$ ". With base and AC cord. For 110-120 v., 60 cycle AC. Shpg. wt., 14 $\frac{1}{4}$ lbs.

89 RX 528. Only \$4.48 Down. NET 44.80

MODEL 1201. As above, but less base. 8 $\frac{3}{4}$ x13 $\frac{1}{4}$ x12 $\frac{3}{8}$ ". Shpg. wt., 10 $\frac{1}{4}$ lbs.

89 RX 527. Only \$4.00 Down. NET 40.00

V-M ACCESSORIES

45-RPM SPINDLE. Shpg. wt., 8 oz.

96 R 329. NET..... 2.31

FIBER SPIDERS. Shpg. wt., 3 oz.

96 R 244. NET PER PKG. OF 12..... 25c

MOUNTING BOARD. 15 $\frac{3}{8}$ x15 $\frac{3}{8}$ ". 3 lbs.

95 RX 511. NET..... 1.20

METAL BASE. Shpg. wt., 3 lbs.

95 RX 510. NET..... 4.15

EXTRA PLUG-IN-HEAD. Wt., 6 oz.

89 R 556. NET..... 55c

MODEL 1202 RECORD CHANGER

Basic 4-speed hi-fi record changer for magnetic pickup. Completely wired for stereo or monoaural use. Features include a convenient stereo-monoaural switch. Engineered for low levels of wow and flutter.

Plays 33 $\frac{1}{3}$, 45 and 78 rpm records automatically. Also includes 16 $\frac{2}{3}$ rpm "talking book" speed. Individual records of any speed may also be played manually. Capacity: 12—10", 10—12" or 14—7" records. Has convenient, positive intermix feature of 10—12" and 10" records of the same speed. Exclusive Tri-O-Matic spindle gently lowers records to record shelf. Automatic shutoff; pickup arm comes to rest and motor shuts off after last record is played.

Mechanism is completely jam-proof. Idler disengages in "off" position. Constant-speed 4-pole motor provides quiet operation. Rubber turntable mat prevents record slippage. Styled in black and white with gold trim. 8 $\frac{3}{16}$ x13 $\frac{3}{4}$ x12 $\frac{3}{8}$ ". With one plug-in shell. Less base, cartridge and AC cord. For 110-120 v., 60 cycle AC. 10 $\frac{1}{4}$ lbs.

89 RX 529. Only \$4.00 Down. NET 40.00

MODEL 1228. As above, with base. Size, 8 $\frac{3}{4}$ x13 $\frac{3}{4}$ x12 $\frac{3}{8}$ ". Wt., 14 $\frac{1}{4}$ lbs.

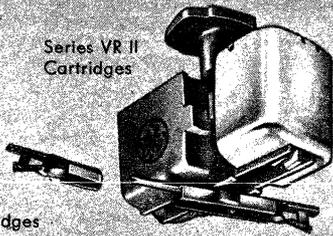
89 RX 530. Only \$4.48 Down. NET 44.80



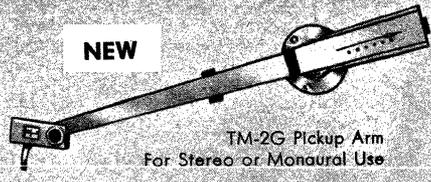
GENERAL ELECTRIC STEREO & MONAURAL PHONO COMPONENTS



GC and CL Stereo Cartridges



Series VR II Cartridges



TM-2G Pickup Arm For Stereo or Monaural Use

NEW STEREOPHONIC CARTRIDGES PLAY BOTH STEREO AND MONAURAL RECORDS

- Smooth, Precise Tracking
- Minimum Record Wear
- Wide Audio Response Range

Already famous for quality in the field of high fidelity, General Electric now introduces three outstanding new magnetic stereophonic cartridges. Manufactured to the highest standards. Feature extremely high compliance, wide response, low distortion and effective channel separation.

Excellent compliance assures optimum stereo pickup—stylus tip tracks with amazing precision. Effective stylus mass is only 2 milligrams for greatly reduced record and stylus wear. 20 db channel separation guarantees clean, well-defined reproduction.

Feature: low IM and harmonic distortion, an easily replaceable stylus and a double mu-metal shield to prevent hum pickup. Output is 6 mv (nominal) per channel at 5.5 cm/sec. Can be used with both 3 and 4-wire systems. Mtg. ctrs.: 1/2" and 3/16".

GC-7 "GOLDEN CLASSIC." Has 0.0007" diamond stylus. 20 to 17,000 cps response. 3.5 to 7 grams tracking force. Compliance: vertical, 2x10⁻⁶ cm/dyne; lateral, 3x10⁻⁶ cm/dyne. Shpg. wt., 3 oz.

79 RC 700. NET..... 23.47

GC-5 "GOLDEN CLASSIC." Has 0.0005" diamond stylus. For turntable use in a professional-type arm, 20 to 20,000 cps response. 2 to 4 grams tracking force. Compliance: vertical, 2.5x10⁻⁶ cm/dyne; lateral, 4x10⁻⁶ cm/dyne. Shpg. wt., 3 oz.

79 RC 705. NET..... 26.41

CL-7 "STEREO CLASSIC." Same as the GC-7 above, except with 0.0007" sapphire stylus. Shpg. wt., 3 oz.

79 RC 701. NET..... 16.61

REPLACEMENT STYLI FOR ABOVE

S—Sapphire; D—diamond. Av. wt., 2 oz.

Stock No.	Type	For	Tip	NET
79 RC 702	ST7D	GC-7, CL-7	D-.0007"	9.75
79 R 703	ST7S	CL-7	S-.0007"	2.45
79 RC 706	ST5D	GC-5	D-.0005"	11.71

SERIES VR II HI-FI MAGNETIC CARTRIDGES

Here's the popular VR II group of monaural variable-reluctance cartridges, world-famous for brilliant audio reproduction. Feature full-range response, high compliance, low-tracking force and replaceable. "Clip-In-Tip" styli. Employ rugged, lightweight construction to withstand a lifetime of constant usage. Compact design for easy installation in any pickup arm.

High compliance assures excellent tracking with reduced record and stylus wear. Tracking force is only 4-6 grams in a professional-type arm (6-8 grams in a changer using a triple-play cartridge). Frequency response is smooth over the entire range of 20 to 20,000 cps. Cartridges are fully shielded in mu-metal and incorporate specially wound coils to suppress hum and noise pickup.

Output (nominal) is 22 mv at 10 cm/sec (1000 cps). Clip-in stylus are easily and independently replaceable. Mounting centers: 1/2" and 3/16". In tables below, "S"—sapphire; "D"—diamond. Av. shpg. wt., 3 oz.

TRIPLE-PLAY TYPES

Stock No.	Type	Stylus Tips	NET
72 RC 851	4G-050	S-.001" S-.003"	9.75
72 RC 852	4G-052	D-.001" S-.003"	19.55
72 RC 853	4G-053	D-.001" D-.003"	30.33

SINGLE STYLUS TYPES

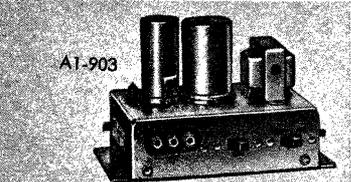
Stock No.	Type	Stylus Tip	NET
72 RC 854	4G-040	S-.003"	7.35
72 RC 855	4G-041	S-.001"	7.35
72 RC 856	4G-063	D-.003"	17.59
72 RC 857	4G-061	D-.001"	17.59

REPLACEMENT STYLI FOR VR II SERIES

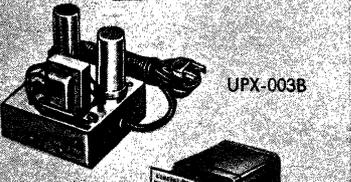
Av. shpg. wt., 2 oz.

Stock No.	Type	Stylus	Radius	NET
72 R 858	4G-01S	Sapphire	.001"	1.96
72 R 859	4G-02S	Sapphire	.0025"	1.96
72 R 860	4G-03S	Sapphire	.003"	1.96
72 RC 861	4G-01D	Diamond	.001"	9.75
72 RC 862	4G-02D	Diamond	.0025"	9.75
72 RC 863	4G-03D	Diamond	.003"	9.75

PREAMPLIFIERS AND RUMBLE FILTER



A1-203



UPX-003B



A1-203

A1-203 "TRANSISTUBE" PREAMP. Allows using mike or any magnetic cartridge with amplifiers not having necessary inputs. Extremely low hum, noise and microphonic levels. Uses 12AX7 and NPN transistor. RIAA cartridge equalization. Includes gain control. Has 3 input impedances, 2 sensitivity positions, 10 mv sensitivity for 1 v. output. 3/4x3 3/4x6". With 2-ft. cable. For 110-120 v., 50-60 cycle AC. Shpg. wt., 3 1/2 lbs.

81 S 857. NET..... 21.51

UPX-003B PREAMP. Permits use of mike or magnetic cartridge with amplifiers not equipped with preamps. 32 db gain with 18 db bass boost (at 50 cps on "Phono"; flat (30-15,000 cps) on "Mike." With 2-ft. output cable and 6SCT. 3 3/4x3 3/4x3 3/4". For 110-120 v., 60 cycle AC. 1 1/2 lbs.

93 S 749. NET..... 10.55

A1-203 RUMBLE FILTER. Effectively filters out troublesome rumble and vibration, and sub-audio surges that might damage speaker. Cutoff of 12 db/octave below 50 cps. Insert between pickup and preamp. With 19" output cable. 2x2 3/4x3 1/2". 10 oz.

99 R 865. NET..... 8.33

NEW TM-2G 12" PICKUP ARM

Professional-quality pickup arm for optimum performance with stereophonic recordings. Expert engineering also makes it ideal for critical monaural use. Accommodates all G.E. stereo and VR II cartridges.

Outstanding feature of the TM-2G is its superior static balance. Maintains constant lateral equilibrium even if the turntable is not level—only lateral motion is that imparted by the record grooves. Shock-resistant arm incorporates microball bearings for reduced travel friction—lightweight construction assures minimum inertia. Has a unique two-step tracking force adjustment—arm is balanced to zero force, then precisely adjusted to any force from 0 to 6 grams for accurate tracking.

Includes arm rest and removable cartridge head. Length from post: forward, 9"; backward, 3 1/2". Height adjustable, 3/8-2 1/4". Has 4-terminal board with ground. Plays records up to 12". Shpg. wt., 1 1/2 lbs.

79 R 704. NET..... 29.35

G. E. MODERNIZATION ASSEMBLIES & STYLI FOR RPX SERIES

REPLACEMENT "CLIP-IN-TIP" STYLI

For stylus replacement in single or triple-play RPX "Clip-In-Tip" cartridges. 2 oz.

Stock No.	Mfr's Type	Stylus	Radius
65RC 992	RPJ-01D	Diamond	.001"
65RC 993	RPJ-02D	Diamond	.0025"
65RC 994	RPJ-03D	Diamond	.003"

NET EACH..... 9.75

65 R 995	RPJ-01S	Sapphire	.001"
65 R 996	RPJ-02S	Sapphire	.0025"
65 R 997	RPJ-03S	Sapphire	.003"

NET EACH..... 1.96

STYLI MODERNIZATION ASSEMBLIES

For converting G.E. triple-play cartridge types RPX-050, -052, -053, -047 to "Clip-In-Tip". Once installed, only the tips need be replaced when worn. "S"—Sapphire; "D"—Diamond. Shpg. wt., 2 oz.

Stock No.	Type	Stylus Tips	NET
65 R 988	RPJ-010A	S-.001" S-.003"	3.50
65 RC 991	RPJ-012A	D-.001" D-.003"	19.55
65 RC 989	RPJ-013A	D-.001" S-.003"	11.71
65 R 987	RPJ-007A	S-.001" S-.0025"	3.50
65 RC 990	RPJ-011A	D-.001" D-.0025"	19.55

SINGLE-TIPPED REPLACEMENT STYLI

Replacement single-tipped styli for G.E. cartridge types RPX-040, -041, -061, and -063. (These cartridges cannot be converted for use with "Clip-In-Tip" styli.) Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Stylus	Radius
65 R 281	RPJ-005	Sapphire	.001"
65 R 261	RPJ-006	Sapphire	.0025"
65 R 295	RPJ-001	Sapphire	.003"

NET EACH..... 2.06

99 RC 815	RPJ-004	Diamond	.001"
99 RC 817	RPJ-002	Diamond	.0025"
99 RC 816	RPJ-003	Diamond	.003"

NET EACH..... 10.29

RKP-009B REPLACEMENT PARTS KIT. For triple-play cartridges. Includes washers, spring and knobs. Shpg. wt., 4 oz.

72 R 744. NET..... 29c

RQB-001 STYLUS BRUSH. Soft bristle brush for cleaning stylus assemblies. Reduces distortion, saves records. 2 oz.

65 R 972. NET..... 10c

REK-O-KUT TURNTABLES AND ACCESSORIES

REK-O-KUT



"Rondine Jr."
L-34 and L-37



"Rondine Deluxe" B-12H
"Rondine" B-12GH



N33H

"RONDINE JR." MODEL L-34

NET \$59⁹⁵
\$6.00 Down

Dual-speed, low-priced 33 $\frac{1}{3}$ and 45-rpm 12" turntable designed to professional specifications. Ideal for high-fidelity installations as well as commercial radio station use. Noise level 40 db below average recording level for minimum rumble. Incorporates a quiet, vibration free, constant-speed 4-pole induction motor. Idler disengages in off position to prevent flat spots on idler wheel. Has precision ground and hand-lathed shaft which turns on heavy ball-thrust bearing. Lathe-turned cast aluminum turntable is lab-tested for perfect balance. Includes a ribbed rubber turntable mat and permanently affixed strobe disc. Rigid, pressed-steel chassis finished in silvertone aluminum. Size, 15x12". Requires 1 $\frac{1}{2}$ " clearance above and 5" below motor panel. For 110-120 volts, 60 cycle AC. Shpg. wt., 15 lbs.

96 RX 686. NET..... 59.95

"RONDINE JR." MODEL L-37

Employs same quality engineering as Model L-34 described above, but with 33 $\frac{1}{3}$ and 78-rpm speeds. Shpg. wt., 15 lbs.

96 RX 694. NET..... 59.95

"RONDINE DELUXE" MODEL B-12H

NET \$129⁹⁵
\$13.00 Down

Precision-engineered, professional-quality three-speed 12" turntable. Employs superior craftsmanship throughout—all critical parts are case-hardened and ground to a micro-finish. Single knob selects from speeds of 33 $\frac{1}{3}$, Off, 45, Off, or 78 rpm. Incorporates a custom-built, self-lubricating, hysteresis-synchronous motor. Solid cast-aluminum turntable is lathe-turned and dynamically balanced. Turntable shaft is polished and hand-lapped in the bearing well for a perfect fit. Noise level is 57 db below average recording level. Idler is disengaged when speed selector is in an "Off" position. Turntable has built-in 45-rpm hub adapter that retracts when not in use. Size, 17 $\frac{3}{4}$ x16". Requires 3" clearance above and 6 $\frac{1}{2}$ " below motor panel. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 19 lbs.

96 RU 687. NET..... 129.95

NEW "RONDINE" MODEL B-12GH

As above, except has noise level 53 db below average recording level.

89 RU 534. NET..... 99.95

NEW "RONDINE" MODEL N33H

NET \$69⁹⁵
\$7.00 Down

Quality 33 $\frac{1}{3}$ -rpm 12" turntable precision-built to Rek-O-Kut standards. Designed to provide outstanding performance in any music system. Motor is a self-lubricating hysteresis-synchronous unit of modern design—has a special winding to reduce coasting of turntable.

Table is driven by specially woven fabric belt to minimize vibration—belt thickness is carefully controlled to micro-tolerances. Belt tension is adjustable for least noise. Turntable is of solid, lathe-turned cast aluminum—tapered for easy handling of records. Noise level is 53 db below average recording level. Includes a ribbed rubber turntable mat to assure maximum traction.

Permanently affixed strobe disc permits a quick, accurate check of speed of turntable rotation. Attractively finished in charcoal gray and two-tone aluminum. Size of aluminum chassis deck is 15 $\frac{1}{2}$ x15". Turntable requires a clearance of 5" below the motor panel and a clearance of 2" above. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 15 lbs.

89 RX 535. NET..... 69.95

NEW "RONDINE" K33 TURNTABLE KIT

- 30-Minute Assembly
- Rek-O-Kut Quality
- Amazing Value

Now you can assemble a quality 33 $\frac{1}{3}$ -rpm turntable in just 30 minutes with a few simple tools. Has a heavy-duty 4-pole induction motor built to Rek-O-Kut specifications. Driven by a specially woven endless belt with thickness held to micro-tolerances. Belt tension adjustable for control of noise level. Solid cast-aluminum turntable is lathe-turned, and tapered for easy record handling. Has a permanently affixed strobe disc. Noise level is 47 db below average recording level. Finished in charcoal gray and two-tone aluminum. Turntable requires 5" clearance below motor board and 2" clearance above. For 110-120 volts, 60 cycle AC. Shpg. wt., 15 lbs.

89 RX 536. NET..... 39.95

UNFINISHED BASE FOR K33. Pre-cut. Size, 6x16 $\frac{1}{2}$ x17". Shpg. wt., 5 lbs.

89 RX 614. NET..... 15.90

STEREO-MONAUROAL TONE ARMS

An outstanding pair of pickup arms for stereo-monaural operation. Employ strong, lightweight tubular aluminum construction. Special pivot with double set of ball bearings assures virtually friction-free horizontal motion and excellent stability. Arm is suspended in a gimbal by a cross-shaft with five 1-mm chrome-steel balls at either end. Acoustical division into two sections prevents audible resonance. Height and tracking force are accurately adjustable. Take 3 and 4-terminal stereo cartridges. With one head. Shpg. wt., 2 lbs.

72 RX 750. S-120. 12" arm. NET... 27.95
72 RX 751. S-160. 16" arm. NET... 30.95

PS-20 EXTRA PLUG-IN HEAD. 4-cond. 6 oz.
72 R 752. NET..... 5.95

STEREO CONVERSION KITS. Quickly and easily convert your Rek-O-Kut monaural arm for use with stereo cartridge. Tools included. Shpg. wt., 2 lbs.

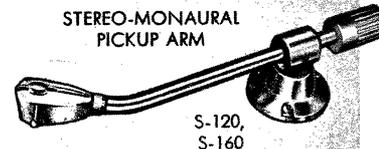
72 R 716. SC-12. For A-120. NET. 17.95
72 R 717. SC-16. For A-160. NET... 19.95

REK-O-KUT TURNTABLE NOW AVAILABLE IN KIT FORM!



K33 Kit

STEREO-MONAUROAL PICKUP ARM



S-120,
S-160

REK-O-KUT TURNTABLE BASES

Here's a selection of beautifully designed bases for mounting Rek-O-Kut turntables. Constructed in the tradition of fine furniture from selected 3/4" walnut or natural blonde korina veneers. Rounded corners are made with mitered, interlocked joints for added firmness. Complete with four shock mounts to insulate the table from vibration. All bases are for 12" arms, except *16". Av. shpg. wt., 13 lbs.

Stock No.	Finish	For	HWD	NET
95 RX 716	Walnut	B-12H	6x16 $\frac{1}{2}$ x17"	23.90
95 RX 717	Blonde	B-12GH	6x16 $\frac{1}{2}$ x17"	28.95
95 RX 634	Walnut	L-34	4 $\frac{1}{2}$ x16 $\frac{1}{2}$ x17"	26.95
95 RX 635	Blonde	L-37	4 $\frac{1}{2}$ x16 $\frac{1}{2}$ x17"	28.95
89 RX 612	Walnut	N33H	6x16 $\frac{1}{2}$ x17"	19.95
89 RX 613	Blonde	N33H	6x16 $\frac{1}{2}$ x17"	28.95
94 RU 925	Walnut	*B-12H	6x17 $\frac{1}{2}$ x21"	32.95
94 RU 926	Blonde	*B-12GH	6x17 $\frac{1}{2}$ x21"	35.95

WELLCOR BASES FOR REK-O-KUT TURNTABLES

Expertly designed turntable bases for use with either a 12" or 16" pickup arm. Made of selected 3/4" hardwoods and fine furniture veneers, hand-rubbed to a lustrous finish. Motor board "floats" on sponge rubber. Mitered joints provide extra rigidity. Felt-covered feet prevent marring of furniture; are adjustable to permit leveling.

Size (HWD). 6 $\frac{3}{4}$ x21x16 $\frac{3}{4}$ ". Completely pre-assembled. Series B bases are for B-12H and B-12GH turntables. Series L are for L-34 and L-37 turntables. Available in mahogany, limed oak or walnut finishes—specify when ordering. Shpg. wt., 13 lbs.

93 RX 489C. Series B. NET..... 21.75
93 RX 488C. Series L. NET..... 21.75



Stereo Conversion Kit For Monaural Arms

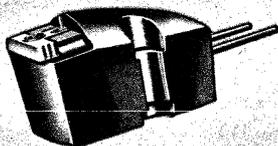


PICKERING

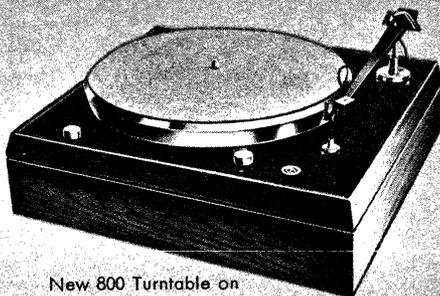
HIGH-FIDELITY COMPONENTS



Model 371
Stanton 45X45
Stereo Fluxvalve
Cartridge



Model 370-1D "Fluxvalve"
Monaural Cartridge



New 800 Turntable on
Base with 196 Arm and
Stereo Cartridge

NEW MODEL 371 STEREO CARTRIDGE

- For Stereo & Monaural Discs
- Standard 1/2" Mtg. Centers
- Precise Miniature Design

Traditional Pickering quality and excellence of design is embodied in the new Model 371 stereo cartridge. Fully compatible, the 371 offers outstanding performance on all stereo records, as well as on conventional microgroove (LP) recordings. Miniature in size, it will fit all record changers, manual players and transcription turntables employing pickup arms with standard 1/2" mtg. centers.

Has two balanced signal outputs for connection to the low magnetic input of a stereo preamplifier (may be connected in parallel for use with a conventional single-channel preamplifier). Output level is adequate for all preamps and there is no need to employ a transformer or other "gain" stage device. Exclusive magnetic-discriminator provides excellent inter-channel isolation with negligible crosstalk.

Frequency response is flat within 2 db over the entire stereo recording range, with complete absence of spurious resonance. Recommended load resistance for flat response, 27,000 to 47,000 ohms, each channel. Inter-channel isolation, 20 db. Recommended tracking force, 4 to 6 grams. With single, precision-polished .0007" diamond stylus installed in "T-Guard" stylus assembly. Shpg. wt., 2 oz.

94 RC 751. NET. 29.85

371 CARTRIDGE IN PLUG-IN HEAD. For Garrard RC88-4, 98-4 changers and TM-II players. Shpg. wt., 5 oz.

64 RC 899. NET. 29.85

MODEL 370-1D MONAURAL CARTRIDGE

For playing all microgroove, monaural records. Originally developed for professional applications, the Model 370-1D is a superior magnetic cartridge with extremely wide response. Fits all hi-fi changers and all lightweight pickup arms. Its exceptional compliance and minimum mass assure extremely high tracking accuracy, and minimum record and stylus wear.

Hermetically sealed, the 370-1D features Pickering's exclusive "T-Guard" stylus assembly—a quick-change, easy-to-slip-in unit which eliminates fumbling and possible damage to the stylus. Its practical "T" shape provides a firm grip for safe, quick and easy stylus change. Supplied with .001" diamond stylus—will accommodate any of the styl listed in the table below. Frequency response from 10 to 30,000 cps. Output is 25 millivolts; tracking pressure from 2 to 6 grams, depending upon arm used and type of recording. Shpg. wt., 3 oz.

99 RC 236. NET. 29.85

NEW 800 "GYROPOISE" TURNTABLE

Unique new turntable, developed specifically for stereo and monaural microgroove records. Features one speed—33 1/3 rpm. Completely eliminates vertical rumble—revolves in magnetic suspension, with precise accuracy, on a bearing of air. No mechanical linkage whatsoever; no vertical bearing! Flutter and wow are virtually eliminated through use of unique, super-cushion idler. Noise: better than 65 db below reference level. Speed Accuracy: ±0.2% total speed variation. Employs a built-in precision leveling adjustment with indicator. Foam rubber turntable mat; takes records to 12" in size. Fully synchronous motor. Panel size, 13 1/2 x 13 1/2"; 1 5/8" above panel, 3" below panel. Complete "800" chassis includes 3-lb. turntable and turntable mechanism. Less base, arm and cartridge. For 110-120 v., 60 cycle AC. Shpg. wt., 13 1/2 lbs.

89 RX 532. NET. 59.85

WOOD BASES FOR "800" TURNTABLE. HWD: 5 3/4 x 14 3/4 x 14 3/4". Specify mahogany, blonde or walnut finish. Wt., 5 1/2 lbs.

89 RX 533C. NET. 12.00

NEW MODEL 196 UNIPOSE ARM WITH STEREO "FLUXVALVE" CARTRIDGE. Employs a single, friction-free pivot bearing for almost infinite compliance. Precisely traces the delicate groove of a stereo record. For use with all high-quality turntables. Mounts on motorboards measuring only 15 1/2 x 15 1/2". Length of arm, 11 3/4". Single thumbscrew and bolt installation. Convenient stylus pressure adjustment for perfect tracking. Includes arm rest with sable brush for keeping stylus tip free of dust. Has .0007" diamond stylus. Shpg. wt., 3/4 lb.

94 RX 752. NET. 59.85

REPLACEMENT STYLI

FOR "FLUXVALVE" 371, 370, 350 AND 194 CARTRIDGES. Ingeniously mounted styli, on specially formed plastic inserts. Easily and quickly changed without tools or disassembly; styli reset perfectly for continued high performance. Shpg. wt., 2 oz.

Stock No.	Type	Tip	NET
99 RC 849	D3510	.001" Diamond	18.00
99 RC 896	D3527	.0027" Diamond	18.00
99 RC 897	S3527	.0027" Sapphire	6.00
99 RC 799	D3505	.0005" Diamond	24.00
94 RC 734	D3707C	.0007" Diamond	18.00

FAIRCHILD HIGH-FIDELITY COMPONENTS

SERIES 412 TURNTABLES

MODEL 412-1 33 1/3-RPM TURNTABLE. Offers superlative specifications. Uses time-proven double-belt drive and self-lubricating hysteresis-synchronous motor providing true professional performance. Non-magnetic, dynamically balanced turntable rests on rotating ball-thrust bearing in nylon seat. Advanced motor suspension system eliminates all traces of vibration. Exceeds NARTB specifications. Precision-made throughout. Less base, below. For 110-120 v., 60 cycle AC. Shpg. wt., 30 lbs.

99 RU 205. NET. 99.50

NEW MODEL 412-2—33 1/3 & 45-RPM TURNTABLE. Not illustrated—similar to above. Employs double-belt drive and self-lubricating, hysteresis-synchronous motor. Has built-in 45-rpm spindle adapter—pulls up for 45-rpm records, pushes down when not in use. Single knob selects either of two speeds, 33 1/3 or 45 rpm. Speed regulation is maintained within ±0.15% regardless of variations in power line voltage and frequency. Rumble, wow and flutter is 100% lower than NARTB standards. Less base, below. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 30 lbs.

91 RU 569. NET. 129.50

HARDWOOD BASES FOR FAIRCHILD TURNTABLES. Shock-mounted; vibration-free. 7 1/2 x 21 1/4 x 14 1/2". Specify mahogany, blonde or walnut finish. Shpg. wt., 15 lbs.

91 RU 589C. NET. 31.50

NEW MODEL 232 STEREO CARTRIDGE

Deluxe new, rotating coil stereo cartridge. Offers flawless reproduction from stereo records and conventional microgroove (LP) records. Has single, .0006" diamond stylus. High compliance for excellent tracking accuracy. Low-impedance output assures minimum hum pickup. Excellent inter-channel separation. Output, 5 millivolts per channel. 1/2" or 7/8" mounting centers. 4 oz.

79 RC 211. NET. 49.50

NEW MODEL 282 STEREO PICKUP ARM

Designed especially for the 232 stereo cartridge above; also accepts other standard size stereo or monaural cartridges. Takes records to 12". Features convenient, plug-in slide carrier to which cartridge can be attached before inserting it into arm. Two independent shielded output cables prevent inter-action. With arm rest and fingertip lift lever. Black and silver. Less cartridge. Shpg. wt., 6 lbs.

72 RX 873. NET. 42.50

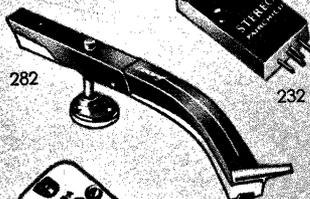
MODEL 225A "MICRADJUST" CARTRIDGE. Professional type, moving coil cartridge. For monaural use only. Has exceptionally good tracking ability. Offers outstanding reproduction. Mounts in all changer and transcription arms—only 1 1/8 x 3/4 x 7/16" in size. Response: ±2 db. 20-20,000 cps. Output, 5 millivolts. Impedance, 200 ohms. With .001" diamond stylus. Shpg. wt., 4 oz.

65 RC 007. NET. 37.50

FAIRCHILD

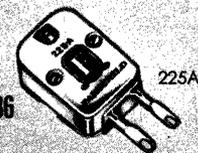


412-1



282

232



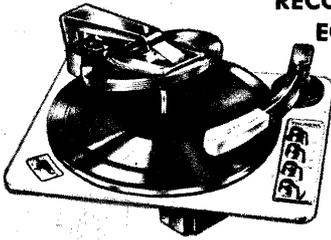
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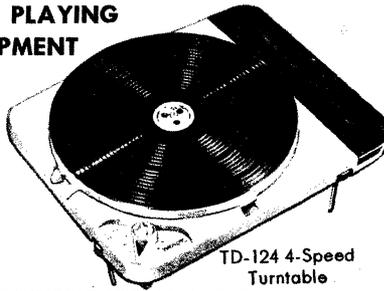
Allied Is Headquarters for High-Fidelity Equipment

THORENS

RECORD PLAYING EQUIPMENT



CD-43 Wired for Stereo



TD-124 4-Speed Turntable



B50-16LCS

NEW MODEL CD-43 CHANGER

Carefully engineered, Swiss made, 3-speed record changer. Pickup arm is wired for stereo use; unit is supplied with two audio output cables. Unique gear-driven turntable features direct-drive, 4-pole induction-type motor. 4 controls: Record Size Selector; Start-Stop; Repeat; Reject and Pause-Timer. Base size: 12x15". Requires 3/4" below mtg. board; 6" above. With mtg. template, 2 phono cables, 2 plug-in heads. Less cartridge, base, AC-line cord and 45-rpm spindle. No adapter needed for 50 cycle operation. For 100-120 v. and 200-250 v., 50-60 cycle AC. Shpg. wt., 25 lbs.

93 RU 333. NET..... 78.35

NEW MODEL CB-33N MANUAL PLAYER. Not illus. Low-cost, 3-speed manual player with many deluxe features. Wired for stereo use. Direct-drive, 4-pole motor; automatic shut-off; etc. 15x12"; requires 3/4" below mtg. base. Less base. With 2 plug-in heads, 2 output cables, mtg. template. For 110-120 v. and 200-250 v., 50-60 cycle AC. 17 lbs.

93 RX 334. NET..... 47.04

NEW MODEL TD-124 TURNTABLE

Professional-quality, 4-speed turntable on rigid base plate. Built-in wood panel allows mounting any 12" or 16" pickup arm. Highly accurate, built-in turntable level—4 leveling screws accessible from top of unit; new eddy current brake for effective speed adjustment without rumble; illuminated strobe; speed adjustable $\pm 3\%$; single On-Off and speed control; extremely low noise level. Instantaneous cueing. Base plate, 15 1/2 x 12 3/4"; depth required, 2 3/4". Less arm and base. With AC cord and pickup arm cable. For 100-120 v., 125-150 v., or 200-250 v., 50-60 cycle AC. Shpg. wt., 32 lbs.

94 RU 722. NET..... 97.75

NEW MODEL TD-134 4-SPEED MANUAL PLAYER. Not illus. Features newly designed pickup arm—accepts all popular makes of stereo and monaural cartridges. Base plate, 14 1/2 x 11 3/4"; requires 3/4" below mtg. base. Less base and cartridge. With AC cord and output cable. For 110-120 v. and 200-250 v., 50-60 cycle AC. 17 lbs.

93 RU 335. NET..... 58.75

THORENS ACCESSORIES. For all units described above.

Stock No.	For	Description	Wt.	NET
96 R 829	CD-43	Automatic 45-rpm spindle	1 lb.	5.83
96 RX 808	CD-43, CB-33N	Wood base (mahogany)	5 lbs.	5.88
96 RX 809	CD-43, CB-33N	Wood base (blonde)	5 lbs.	5.88
96 RX 823	CD-43, CB-33N	Unfinished mounting board	3 lbs.	2.94
89 R 554	CD-43, CB-33N	Extra plug-in head	3 oz.	1.47
93 RX 396	TD-124	Wood base (mahogany)	5 lbs.	9.00
93 RX 397	TD-124	Wood base (blonde)	5 lbs.	9.00
93 RX 336	TD-134	Wood base (mahogany)	5 lbs.	9.00
93 RX 337	TD-134	Wood base (blonde)	5 lbs.	9.00
93 RX 487	TD-124	Unfinished mounting board	3 lbs.	4.50
93 RX 338	TD-134	Unfinished mounting board	3 lbs.	4.50

METZNER "STARLIGHT" TURNTABLES AND ACCESSORIES

NEW 672A TURNTABLE SYSTEM

System consists of the new Model 60A turntable, new Model 07 "Stereaunetic" pickup arm, and new Model 002 wood base styled in decorator blonde. Arm accommodates the monaural or stereo cartridge of your choice. The 60A turntable features: variable speed control from 16 to 84 rpm; stroboscope speed indicator; 4-pole, shaded-pole motor; direct worm-gear drive; retracting center hub for 45-rpm records; massive, machined cast aluminum turntable with cork pad. *Rumble:* 52 db below NAB reference level. *Wow & Flutter:* less than 0.18% RMS. The 07 "Stereaunetic" arm has wrist-action head. Less cartridge. For 110-120 v., 60 cycle AC. Shpg. wt., 24 lbs.

72 RU 819. NET..... 102.50

NEW MODEL 60A TURNTABLE ONLY. Described in system above. Less base and arm. 11 3/4 x 13 1/4"; requires 1 1/2" above, 4" below mtg. board. For 110-120 v., 60 cycle AC. 14 lbs.

72 RX 830. NET..... 64.50

NEW 07 "STEREAUNETIC" ARM

Wired for new stereo and all monaural cartridges. Wrist-action head, counter-balanced for vernier control of stylus pressure. Takes records to 16". Lateral pivot on precision ball bearings. Mounts in single 1/2" hole. Less cartridge. Shpg. wt., 2 lbs.

79 RX 210. NET..... 22.50

NEW MODEL 80 TURNTABLE

Beautifully styled and modestly priced turntable. Plays any speed between 16 and 84 rpm; control knob is calibrated for instant selection of 16, 33, 45 and 78-rpm speeds. Built-in illuminated stroboscope for exact speed settings. Employs constant speed, 4-pole, shaded-pole motor and worm-gear drive enclosed in die-cast housing. Sintered bronze motor bearings. Aluminum turntable has mass concentrated at outer rim for maximum stabilizing flywheel effect. Cork pad; retractable 45-rpm center hub.

Rumble & Noise: better than 40 db below standard NAB reference level. *Wow & Flutter:* less than 0.25% RMS. Slide-type On-Off switch has built-in "click" filter to eliminate speaker "pop". HWD: 5 1/2 x 12 x 13 3/4". Mounts in cutout 5 7/8" wide and 9" long; requires 3 3/4" below mounting board. Less base and pickup arm. For 110-120 v., 60 cycle AC. Shpg. wt., 12 lbs.

72 RX 815. NET..... 49.50

WOOD BASES FOR TURNTABLES

Pre-cut for Model 60A and 80 turntables. Specify mahogany, blonde or walnut finish.

FOR MODEL 60A. 17 x 15 3/4 x 3 3/4". 7 lbs.

72 RX 831C. NET..... 15.00

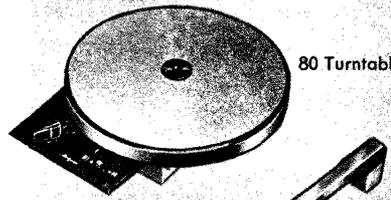
FOR MODEL 80. 17 1/4 x 15 3/4 x 3 3/4". 6 lbs.

72 RX 820C. NET..... 12.00

METZNER

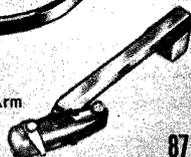


60A Turntable & 07 Stereo Arm on 002 Base

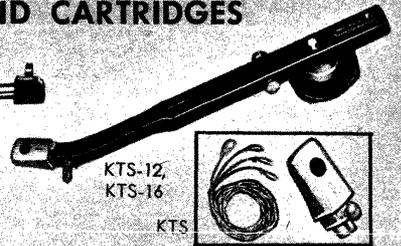
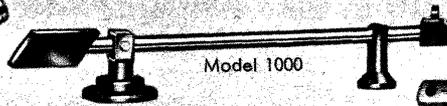
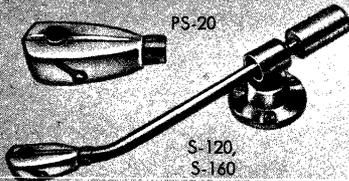


80 Turntable

07 Stereaunetic Arm



STEREO-MONAUURAL PICKUP ARMS AND CARTRIDGES



REK-O-KUT STEREO-MONAUURAL ARMS

An outstanding pair of pickup arms. Special pivot with double set of ball bearings assures virtually friction-free horizontal motion and excellent stability. Acoustical sectioning prevents resonance. Height and tracking force accurately adjustable. Take monaural or 3 or 4-terminal stereo cartridge. With 1 head. 2 1/4 lbs.
72 RX 750. S-120. 12" arm. NET... 27.95
72 RX 751. S-160. 16" arm. NET... 30.95

PS-20 EXTRA PLUG-IN HEAD. 4-cond. 4 oz. 72 R 752. NET... 5.95

STEREO CONVERSION KITS. (Illus. on p. 85.) Quickly convert your Rek-O-Kut monaural arm for stereo. 2 lbs.

72 R 716. SC-12. For A-120. NET... 17.95
72 R 717. SC-16. For A-160. NET... 19.95

LONDON-SCOTT STEREO-MONAUURAL PICKUP ARM AND CARTRIDGE

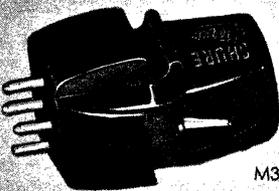
MODEL 1000. An integrated combination of arm and magnetic cartridge, carefully made to uncompromised standards of design. Provides superior stereophonic and monaural reproduction; employs a single .0005" polished diamond stylus. Tip mass of less than 1 milligram guarantees extremely precise tracking with minimum record wear.

Compliance of 3.5×10^{-6} assures excellent fidelity. Frequency response is 20 to 18,000 cps. ± 2 db. Channel separation is better than 20 db. Tracking force, 3.5 grams. Output per channel. 4 mv at 5 cm/sec. Overall length, 12 1/2". Height adjustable from 1 3/8 to 2 1/2". With arm rest. 1 1/2 lbs.
79 RX 707. \$9.00 Down. NET... 89.95

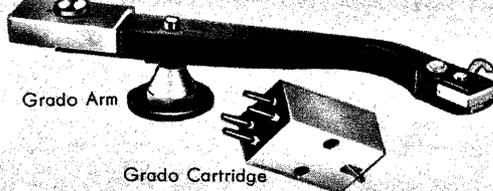
AUDAX STEREO PICKUP ARM KITS AND STEREO CONVERSION KIT

PICKUP ARMS. Here's a pair of quality stereo-monaural pickup arms in money-saving kit form—all you need for assembly is a screwdriver. Employ simple one-piece construction with no loose parts. Precision-made vertical and lateral pivot systems permit remarkably free arm motion. Arm channel structures change width between pivot and head to prevent audible resonance. Selector index permits adjustment of force for all popular cartridges. Include finger lifts. Have three wires. 2 1/2 lbs.
72 R 748. KTS-16. 16". NET... 18.50
72 R 747. KTS-12. 12". NET... 15.50

KTS CONVERSION KIT. Converts KT-12 and KT-16 pickup arms for stereo. 1 lb.
72 R 749. NET... 4.95

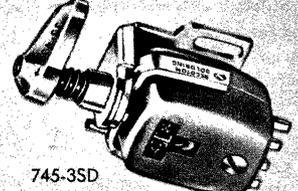


M3D



Grado Arm

Grado Cartridge



745-3SD

SHURE M3D STEREO CARTRIDGE

The new M3D "Professional Dynetic" magnetic cartridge is an excellent choice for realistic, undistorted stereophonic or monaural reproduction. Expertly engineered and precision made, it features extremely high compliance and low tracking force for minimum stylus and record wear. The M3D exhibits no magnetic attraction to steel turntables, and "needle talk" is negligible. Fits all arms (except "Studio Dynetic"). Stylus is .0007" diamond.

Channel separation; more than 20 db at 1000 cps. Vertical and lateral compliance: 4×10^{-6} cm/dyne. Frequency response: 20 to 15,000 cps, ± 3 db. Recommended tracking force: 3 to 6 grams. Output: 5 mv. Mounts on standard 1/2" mounting centers. Has 4 output terminals. 3 oz.
79 RC 215. Only \$4.41 Down. NET 44.10

GRADO PICKUP ARM & CARTRIDGE

PICKUP ARM. Superb new stereo-monaural pickup arm made of the finest walnut, with precision-machined aluminum fittings. Incorporates micrometer overhang adjustment for smallest possible tracking error. Tracking force adjustable from 0 to 13 grams. Overall length, 14". Adjustable height, 4 leads. 1 3/4 lbs.
72 RX 746. Only \$3.00 Down. NET 29.95

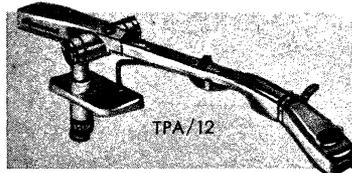
STEREO CARTRIDGE. The ultimate in stereo-monaural reproduction! This unexcelled magnetic cartridge provides smooth, clean output from 10 to 35,000 cps. Lateral compliance, 8×10^{-6} cm/dyne. Tracking force, 2 grams. Stylus is .0007" diamond. Excellent channel separation. 6 mv output @ 10 cm/sec. Fits std. changers and arms. 4 terminals; fits 1/2" ctrs. 2 oz.
79 RC 214. Only \$4.95 Down. NET 49.50

RECOTON STEREO CARTRIDGE

MODEL 745-3SD TURNOVER. Here's a fine-quality turnover magnetic cartridge for both stereophonic and monaural use. Features high compliance, low tracking force and excellent channel separation. Frequency response, 20 to 15,000 cps, ± 2 db. Vertical and lateral compliance, 4×10^{-6} cm/dyne. Channel separation, better than 20 db. Tracking force, 3-6 grams. Output, 5 mv. Stylus are .003" sapphire and .0007" diamond. Cartridge has 4 output terminals, mounts on standard 1/2-inch mounting centers. Shpg. wt., 3 oz.
72 RC 718. Only \$2.94 Down. NET 29.35

502-D. .0007" diamond repl. stylus. 2 oz. 72 RC 720. NET... 10.73

494. .003" sapphire repl. stylus. 2 oz. 72 R 721. NET... 3.43



TPA/12

GARRARD TPA/12 STEREO PICKUP ARM

Completely new Garrard low-cost transcription arm for use with either stereophonic or monaural recordings up to 16" in diameter. Carefully engineered combination of static balance and spring loading provides maximum vertical freedom. Employs precision spring-loaded, cone-type, ball-bearing pivots for practically friction-free movement. Arm requires only a single mounting hole, and has a fixed length and tracking angle. Tracking force is easily adjustable. Takes any stereo cartridge. Attractively finished in gleaming chrome and white enamel. Shpg. wt., 2 lbs.
79 R 708. NET... 19.11

The Stereo Cartridge and Your Music System

With the major companies in full production of stereophonic records and phono cartridges, you can enjoy music that has a new realism—a breathtaking quality of depth and direction—at moderate cost. You can begin with a monaural phono installation and later purchase an add-on system to convert to stereo, or you may wish to get a complete stereo system immediately. In either case, there are several points about cartridges to keep in mind.

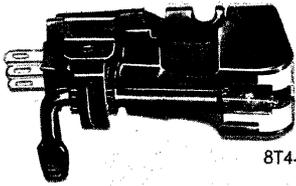
CARTRIDGES AND THE MONAUURAL SYSTEM. If you already own a monaural phono system or are planning to assemble one, and possibly add a second channel for stereo later, the use of a stereo phono cartridge is recommended. Its increased flexibility of stylus motion (compliance) and decreased tip radius will make monaural recordings sound far better and will

assure reduced record wear. When used for this purpose, the cartridge output terminals are put in parallel to increase its response to lateral motion and eliminate its response to vertical motion. You will probably also want to use your monaural system with stereo records, and to prevent the extreme wear that would result if a monaural cartridge were used, a stereo cartridge must be employed. Output terminals are put in parallel for this mode of operation, too.

SWITCHING. For best results when using a stereo cartridge with monaural records, a stereo-monaural switch should be employed (see unit on pg. 89). Allied's stereo "add-on" systems include one.

CARTRIDGE TERMINALS. Either a 3 or 4-terminal cartridge can be used with the standard AC-operated stereo system; but only the 4-terminal type should be used with low-cost AC-DC units.

STEREO CARTRIDGES AND TURNTABLES



8T4-SD

SONOTONE STEREO TURNOVER

MODEL 8T4-SD. Outstanding new ceramic cartridge for both stereo and monaural operation. Features turntable rumble suppression, full frequency response, superior compliance and excellent channel separation. Unaffected by magnetic fields and changes of temperature or humidity; needs no preamplifier. Stylus is a replaceable turnover type: .0007" diamond and .003" sapphire.

Frequency Response: 20 to 12,000 cps. gradual roll-off beyond. Channel separation: 20 db. 5 to 7 grams tracking force. Compliance: 2×10^{-6} cm/dyne. 0.3 volts output. Has 4 terminals; mounts on $\frac{1}{16}$ " and $\frac{1}{2}$ " centers. Shpg. wt., 3 oz.
68 RC 208. NET. 14.41

8T-SD. Replacement stylus for above. 2 oz.
68 R 209. NET. 9.70



BF-40

RONETTE STEREO CARTRIDGES

MODEL BF-40 "BINOFUID". Superior crystal cartridge for crisp stereo or monaural sound. Designed for minimum record wear. Has .0007" diamond stylus (easily replaceable, use .00075" stylus below). Channel separation: 24-28 db. Response: 20 to 15,000 cps. Tracking force: 4 to 8 grams. Vertical and lateral compliance: 3.5×10^{-6} cm/dyne. Output: 0.35V. Has 4 terminals; mounts on $\frac{1}{2}$ " centers. Wt., 3 oz.

68 RC 207. NET. 18.23

"STEREO OV". Turnover version of above. .00075" diamond, .0025" sapphire.

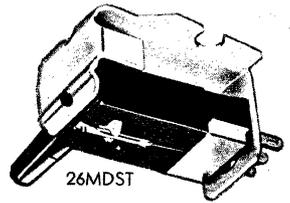
68 RC 212. NET. 19.11

DIAMOND STYLUS. .00075" repl. 2 oz.

68 R 213. NET. 6.47

SAPPHIRE STYLUS. .0025" repl. 2 oz.

68 R 214. NET. 1.00



26MDST

ELECTRO-VOICE STEREO CARTRIDGES

MODEL 26MDST. The new 26MDST ceramic cartridge is expertly designed to provide full, faithful stereo or monaural reproduction. Features low distortion, excellent response, high channel separation and good compliance. 15 db rumble suppression permits use in any changer or turntable. Produces a velocity curve that allows it to plug into any magnetic input. Has turnover stylus. .0007" diamond and .003" sapphire. Response: 20 to 16,000 cps. Channel separation: 20 db. Distortion: less than 2%. Tracking force: 6 grams. Output: 0.5 volts. Vertical and lateral compliance: 2×10^{-6} cm/dyne. Mounts on $\frac{1}{16}$ " or $\frac{1}{2}$ " centers. Shpg. wt., 3 oz.

72 RC 745. NET. 22.05

MODEL 26DST. As above, but matches ceramic phono input.

72 RC 799. NET. 22.05

MODEL 21MD. Same as Model 26MDST, but with .0007" diamond stylus only.

72 RC 794. NET. 19.11

MODEL 21D. As above, but matches ceramic phono input.

72 RC 867. NET. 19.11

D1-1. .0007" diamond repl. stylus. 2 oz.

72 RC 797. NET. 9.70

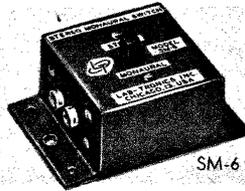
S3-3. .003" sapphire repl. stylus. 2 oz.

72 R 796. NET. 2.06

LAB-TRONICS STEREO-MONAUURAL SWITCH

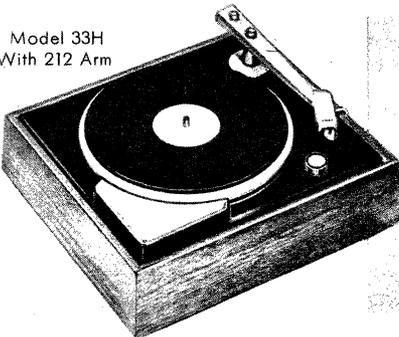
MODEL SM-6. Here's a convenient switching network for the stereo system using two separate preamplifiers. Designed to be used with a stereo cartridge, the SM-6 has two positions—in one position it blends the two cartridge outputs for monaural operation of the system, while in the other position it separates the blended channels for stereo operation. Has 3 input terminals (one common) and an output for each preamp. $2 \times 2 \times 1 \frac{1}{4}$ ". Shpg. wt., $\frac{1}{2}$ lb.

91 S 587. NET. 1.76



SM-6

Model 33H
With 212 Arm



GRAY TURNTABLE & ARM

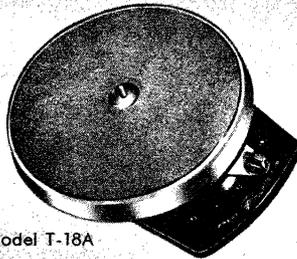
MODEL 33H 12" TURNTABLE. Deluxe, precision-built $33\frac{1}{2}$ -rpm turntable for critical audio use. Incorporates a hysteresis-synchronous motor driving a one-inch cast-aluminum table. Nylon-belt drive assures best motor isolation. Has $\frac{1}{8}$ " steel base plate pre-drilled for Gray 212 pickup arm. $16 \times 14 \frac{3}{4}$ "; requires $1\frac{1}{4}$ " above (using the 212 arm), $3\frac{3}{4}$ " below mounting board. For 110-120 v., 60 cycle AC. 18 lbs.

93 RX 386. Only \$8.00 Down. NET 79.95

BASES FOR ABOVE. Shpg. wt., 4 lbs.
93 RX 387. Mahogany. } NET
93 RX 388. Lined Oak. } EACH 21.95
93 RX 389. Walnut. }

MODEL 212 PICKUP ARM. Incorporates "viscous-damped" (fluid controlled) suspension for faithful transcription—only the stylus vibrates, not the arm. Arm is micro-balanced for maximum tracking stability. Tracking force adjustable, 0 to 15 grams. Damping "floats" arm down slowly if accidentally dropped. 4 leads for stereo cartridges. $13\frac{1}{2}$ " long. Shpg. wt., 2 lbs.

99 RX 474. Only \$3.40 Down. NET 34.00



Model T-18A

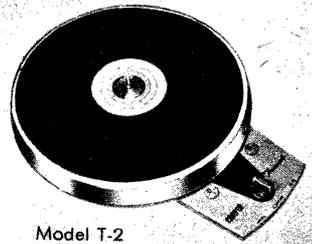
PRESTO CUSTOM-QUALITY TURNTABLES

MODEL T-18A "PIROUETTE". Superior-performance turntable for hi-fi and professional use. Accurate, close-tolerance machining throughout insures trouble-free operation, with extremely low levels of wow, flutter and rumble. Motor is a 4-pole, synchronous type with high starting torque. Turntable has a 5-position speed control (45, Off, $33\frac{1}{2}$, Off, 78)—idlers are completely disengaged in "Off" positions to prevent flat spots.

Heavy cast-aluminum table is carefully balanced for rumble-free operation—employs a single-ball support. Includes a 45-rpm record adapter which conveniently retracts into the turntable when not in use. Idler wheels are interchangeable and easily replaced—each idler is firmly mounted on the shift plate to prevent wobbling. Rumble level is 47 db below recording level; less than 0.2% wow and flutter. Panel is finished in attractive telephone black.

Overall size: $11\frac{1}{8} \times 14\frac{1}{4} \times 5\frac{7}{8}$ ". Requires $3\frac{3}{4}$ " clearance below and $2\frac{1}{8}$ " clearance above the panel. Mounts in an easily made $6 \times 8\frac{1}{4}$ " rectangular cut-out. For 110-120 volts, 60-cycle AC. Shpg. wt., 16 lbs.

96 RX 918. NET. 75.00



Model T-2

MODEL T-2 "PROMENADE". Low-cost, professional-quality 12" turntable. Has a heavy-duty 4-pole motor to insure minimum speed variation. Quickly changes from $33\frac{1}{2}$ to 45 rpm with a flick of the shift lever. Well-balanced aluminum turntable and simple but rugged drive system eliminate wow, flutter and rumble. Interchangeable idler wheels disengage in "Off" position.

Has a permanently affixed strobe disc. 45-rpm adapter retracts into turntable when not in use. Includes individual speed-adjusting cams and precision-ground bearings. Rumble is 47 db below recording level; less than 0.2% wow and flutter.

$11\frac{1}{8} \times 14\frac{1}{4} \times 5\frac{7}{8}$ " overall. Requires $2\frac{1}{8}$ " above and $3\frac{3}{4}$ " below panel. For 110-120 v., 60 cycle AC. Shpg. wt., 15 lbs.

98 RX 598. NET. 59.50

BASES FOR PRESTO TURNTABLES. Carefully designed mounting bases—excellent for shelf, cabinet or table. Wt., 5 lbs.

95 RX 544. Mahogany. NET. 24.90

95 RX 545. Blonde. NET. 24.90

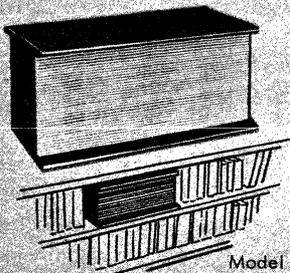
95 RX 546. Unfinished. NET. 19.95

See Page 98 for Selected Stereo Records

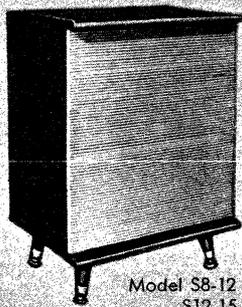
W

WELCOR

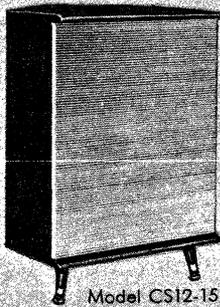
HI-FI SPEAKER ENCLOSURES AND ENCLOSURE KITS



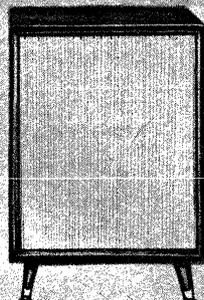
Model BS



Model S8-12
S12-15



Model CS12-15



Model C8-12

NEW MODEL BS BOOKSHELF SPEAKER ENCLOSURE

Distinctively styled high-fidelity speaker enclosure for use with any 8" speaker. Only 11" high, 24" long and 10 1/2" deep—perfect for bookshelf, table-top or other limited-space applications. Employs ducted-port design for performance equal to many enclosures of greater size. Quality constructed throughout with 3/4" plywood, lined with acoustical padding. Finished in hand-rubbed, fine furniture veneers. Has glistening brass trim to accent grille cloth. Complete with covered tweeter cut-outs. Shpg. wt., 16 lbs.

- 79 DX 371. Mahogany Finish. NET..... 27.00
- 79 DX 372. Lined Oak Finish. NET..... 30.00
- 79 DX 373. Walnut Finish. NET..... 30.00

NEW MODEL CS12-15 SPEAKER ENCLOSURE

Handsome finished enclosure for 12" or 15" speaker. Employs true bass reflex design for extended low-frequency response. Equally efficient in a corner or along any wall. Front panel is factory-fitted with removable adapter panel permitting use with either 12" or 15" speaker; base is removable to gain access to acoustically padded interior. Constructed of sturdy, 3/4" plywood; choice of hand-rubbed veneers. Has provision for addition of tweeters and horns. With 4" self-leveling legs. Size, 28x24x21". Shpg. wt., 49 lbs.

- 79 DZ 365. Mahogany Finish. NET..... 72.00
- 79 DZ 366. Lined Oak Finish. NET..... 79.50
- 79 DZ 367. Walnut Finish. NET..... 79.50

NEW MODELS S8-12 AND S12-15 SPEAKER ENCLOSURES

Ducted-port speaker enclosures and kits. Feature: 3/4" plywood; hand-rubbed, fine furniture veneers; acoustical padding; 4" self-leveling legs. S8-12K and S12-15K kits, unfinished mahogany veneer.

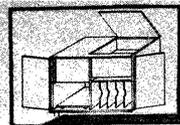
Stock No.	Type	For Speaker	Finish	HWD	Lbs.	EACH
79 DZ 357	S8-12	8" or 12"	Mahogany	22 1/2 x 19 1/4 x 16"	37	51.75
79 DZ 358	S8-12	8" or 12"	Lined Oak	22 1/2 x 19 1/4 x 16"	37	57.00
79 DZ 359	S8-12	8" or 12"	Walnut	22 1/2 x 19 1/4 x 16"	37	57.00
79 DU 360	S8-12K	8" or 12"	Unfinished	22 1/2 x 19 1/4 x 16"	37	45.00
79 DZ 361	S12-15	12" or 15"	Mahogany	28x24x21"	55	72.00
79 DZ 362	S12-15	12" or 15"	Lined Oak	28x24x21"	55	79.50
79 DZ 363	S12-15	12" or 15"	Walnut	28x24x21"	55	79.50
79 DZ 364	S12-15K	12" or 15"	Unfinished	28x24x21"	55	63.00

NEW MODEL C8-12 SPEAKER ENCLOSURE

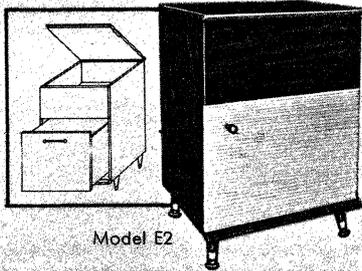
Excellent designed ducted-port enclosure of rigid construction. Has speaker mounting board cut for any 12" speaker, with removable adapter for 8" speaker. Made of seasoned 3/4" plywood throughout, lined with acoustical padding to minimize distortion-causing medium and high-frequency reverberations. Over three cubic feet capacity—brings out full response of speaker. Attractively finished in choice of mahogany, lined oak or walnut to complement any furnishing mode. Smartly tapered 4" self-leveling legs are beautifully accented by lustrous brass ferrules. Complete with provision for adding tweeters and horns. 22 1/2 x 19 3/4 x 13 3/8". Wt., 25 lbs.

- 79 DU 368. Mahogany Grained Finish. NET..... 33.75
- 79 DU 369. Lined Oak Grained Finish. NET..... 36.00
- 79 DU 370. Walnut Grained Finish. NET..... 36.00

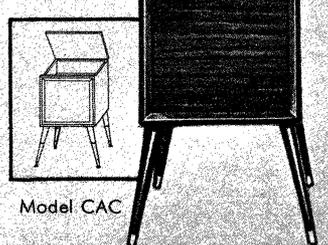
WELCOR EQUIPMENT CABINETS AND KITS



Model E1



Model E2



Model CAC

NEW E1 EQUIPMENT CABINET

A beautiful and exceptionally versatile equipment cabinet, featuring top-quality construction and fresh contemporary styling. May be used in two ways: sturdy shelves are provided for placement of enclosed components, and board is also supplied for permanent, custom mounting.

Hand-rubbed, fine furniture veneers are strikingly accented by distinctive brass trim. Precision-fit, hinged doors have positive-action magnetic latches. Smooth-operating hinged lid on record player compartment permits easy access.

Size of compartments: record changer or turntable compartment, 10x20 7/8 x 17 1/4"; tuner-amplifier compartment, 13x20 7/8 x 17 1/4"; tape recorder compartment (complete with slide-out shelf), 10 1/2 x 20 7/8 x 17 1/4"—plus a large, five-partitioned compartment for record storage. Matches enclosures listed above. 28x44x21". 135 lbs.

- 79 DZ 350. Mahogany. NET..... 157.50
- 79 DZ 351. Lined Oak. NET..... 172.50
- 79 DZ 352. Walnut. NET..... 172.50

NEW E2 EQUIPMENT CABINET

Tastefully styled equipment cabinet for any furnishing scheme. Features convenient slide-out drawer with adjustable slots for mounting of tuner, amplifier and preamp—complete with face panel. Distinctive, wrap-around grille cloth across front of drawer matches enclosures listed above.

Rigidly constructed of selected plywood; handsomely finished in hand-rubbed, fine furniture veneers with subtle accents of gleaming brass trim. Size of top-loaded record changer compartment, 10 1/4 x 22 1/4 x 18 1/4"; drawer, 13x21 1/4 x 16".

Available in choice of mahogany, lined oak or walnut. Supplied with 4" self-leveling legs. 28x24x21". Shpg. wt., 63 lbs.

- 79 DZ 353. Mahogany. NET..... 130.50
- 79 DZ 354. Lined Oak. NET..... 141.00
- 79 DZ 355. Walnut. NET..... 141.00

MODEL E2K EQUIPMENT CABINET KIT. As above, but in easy-to-assemble kit form. Unfinished mahogany veneer. Wt., 60 lbs.
79 DZ 356. NET..... 103.50

NEW MODEL CAC EQUIPMENT CABINET

Expertly designed equipment cabinet for the budget-minded hi-fi enthusiast. Ideal for use where space is at a premium. Provides ample space for a record changer or tape deck plus an amplifier—in one compact, space-saving unit. Constructed of high-quality woods in choice of mahogany, lined oak or walnut; wood grained finish.

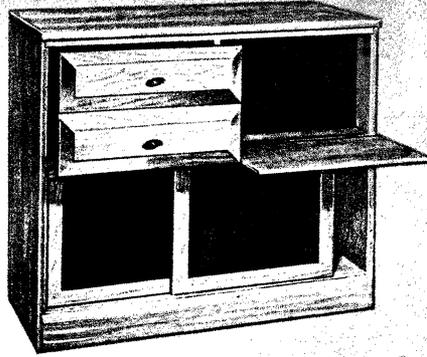
Features easy-action, all-position top lid for quick access to record changer or tape deck. Amplifier section has completely finished panel to permit custom mounting. Smartly tapered, 11 1/2" legs with lustrous brass ferrules add a distinctive touch to any decorating motif. An ideal companion-piece to the Model C8-12 speaker enclosure described above.

Shipped with legs unattached; easily set up in minutes. Size: 15" high by 17" wide by 17 1/2" deep. Overall height with legs, 26 1/2". Shpg. wt., 25 lbs.

- 79 DU 374. Mahogany. NET..... 28.50
- 79 DU 375. Lined Oak. NET..... 30.75
- 79 DU 376. Walnut. NET..... 30.75

LOW-COST UNFINISHED CABINETS

An excellent selection of fully assembled, budget-priced hi-fi equipment cabinets. Provide space for tuner, amplifier and record changer—plus plenty of room for records. Attractively styled and durably constructed, each cabinet is completely sanded—ready for painting or staining to match any decorative scheme.



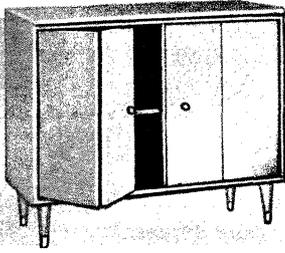
"ARISTO" EQUIPMENT CABINET

Deluxe equipment cabinet for high-fidelity components. Completely assembled, this unfinished cabinet combines smart styling with functional design. Constructed of clear Ponderosa pine, sanded velvet smooth—may be painted, or stained and finished to match the decor of any surroundings. Three large compartments provide plenty of mounting space for record changer or turntable, tuner and amplifier—plus ample space for the storage of records, albums, etc.

Its many fine furniture details include tooled drawer fronts, gleaming brass drawer pulls, and sliding doors at bottom with highly attractive tan plastic grille cloth. Record changer compartment has convenient slide-out drawer. Tuner and/or amplifier compartment has easy-action fold-out door. Record storage compartment (holds 200 LP's) has easy-action sliding doors. Base is an integral part of cabinet.

Size of compartments: record changer compartment, 10½" high, 16½" wide, 15¼" deep; tuner-amplifier compartment, 10½" high, 16½" wide, 15¼" deep; record storage compartment, 13¾" high, 33½" wide, 15¼" deep. Supplied with a factory-fitted face panel to permit custom mounting of tuner and amplifier. Overall size: HWD, 30x35x16". Shpg. wt., 43 lbs.

82 DZ 257. NET..... 32.50



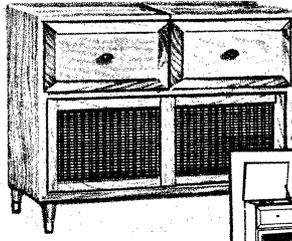
NYLCO EQUIPMENT CABINET

A beautifully designed cabinet for high-fidelity equipment, completely assembled, sanded and ready for finishing. Made from solid, ¾" unfinished redwood, this smartly styled cabinet makes an attractive addition to any decorative scheme. The large, roomy interior will accommodate amplifier, pre-amplifier, tuner and record changer—even a tape recorder. Has a sturdy shelf for easy placement of all components—plus ample room for record storage.

Features dual, factory-fitted sectional folding doors with easy-grip hand knobs. These full-length doors glide open on smooth-action grooves to provide easy access to cabinet's interior. Smartly tapered legs are supplied—may or may not be used to blend harmoniously with rest of furniture. Legs have gleaming brass ferrules to accent distinctive styling of cabinet.

Takes a handsome furniture finish—adds richness to any furnishing mode. Constructed of selected-top-quality materials throughout—made to exacting specifications. Interior dimensions: overall inside height is 22¾" and adjustable shelf may be set at 4 different levels; 34" wide, 14½" deep. Overall size of cabinet: 15¾" deep, 35½" wide; 31" high with legs, 26" high without legs. Shpg. wt., 43 lbs.

82 DZ 261. NET..... 34.50



Three large Compartments

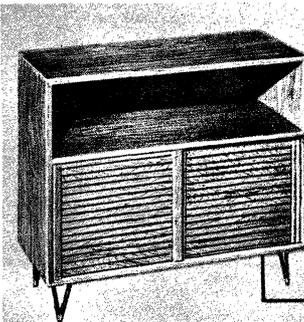
NEW EQUIPMENT CABINET

Completely assembled, attractive cabinet for high-fidelity equipment. Made of clear Ponderosa pine, sanded satin smooth; may be painted, or stained and finished to match any type of furniture. Has plenty of room for installation of tuner, amplifier and record player or turntable—plus ample space for record storage. Anyone can easily custom-finish this excellent equipment cabinet in a minimum of time. The finished job will provide you with a handsome professional-quality piece of furniture.

Features lift-top lid for easy access to record changer or turntable compartment. Tuner-amplifier compartment, reached by convenient drop-lid panel, is supplied with face panel to permit custom mounting. Record storage compartment has sliding doors, covered by attractive grille cloth. May be used with or without legs, supplied.

Size of compartments: record changer compartment, 7" high, 16½" wide, 15¼" deep; tuner-amplifier compartment, 7" high, 16½" wide, 15¼" deep; record storage compartment, 15¼" high, 33½" wide, 15¼" deep. Overall size of cabinet: 16x35x30" including legs. Shpg. wt., 39 lbs.

79 DZ 253. NET..... 33.30



HALF-DOOR HI-FI CABINET

Handsome equipment cabinet with sliding louvered doors covering bottom half of cabinet only. Fully assembled, but unfinished—sanded, clear Ponderosa pine is ready for painting or staining to match motif of any interior. Offers more than adequate space for any combination of hi-fi components.

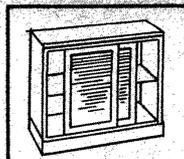
Interior of cabinet is divided into two spacious compartments. Top compartment is 9¼" high, 33½" wide, 14¾" deep—perfect for housing record changer and tuner-amplifier. Bottom compartment is 12½" high, 33½" wide, 14¾" deep—ideal for the storage of records.

Constructed of top-quality materials and made to exacting specifications; ready for quick finishing. Recommended for use where space is at a premium. May be mounted on legs; see description at right. Less legs. 24¼x35¾x16". Shpg. wt., 47 lbs.

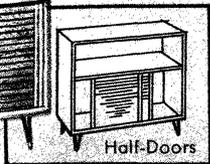
95 DZ 509. NET..... 17.91



Full Wood Base



Full Doors



Half-Doors



Wrought Iron



Wooden Legs

LEGS AND BASE ACCESSORIES

REVERSIBLE BASE. Sturdy base for use with half-door and full-length door cabinets described in right and left columns. Features modern design on one side, traditional styling on the other side. Size, 3½x35¾x16". Shpg. wt., 3 lbs.

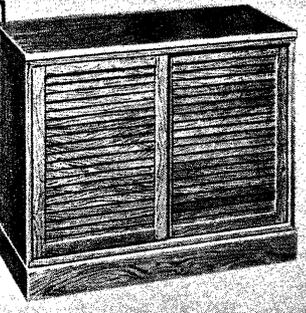
95 DX 536. NET..... 4.23

TWIN WROUGHT IRON LEGS. Complete with lustrous brass ferrules to enhance appearance. 5¼" high. Set of 4. Wt., 5 lbs.

95 D 537. NET..... 4.17

MODERN ROUND-LEG BASE. Durably constructed, dual-leg base for use with unfinished equipment cabinets. Feature smartly tapered design, accented by lustrous brass ferrules. Perfectly spaced to provide excellent balance. Sanded; unfinished. Size, 5¼" high, 16" deep. Set of 2. Wt., 3 lbs.

95 DX 535. NET..... 3.38



FULL-LENGTH DOOR CABINET

Tastefully designed unfinished cabinet with luxurious louvered sliding doors. An excellent unit for budget-priced and limited-space high-fidelity installations. Houses all components of a music system (except the speaker) such as changer or turntable on base, tuner, amplifier, albums, etc.

Durably constructed of selected, clear Ponderosa pine, sanded satin smooth. Wood is richly textured and beautifully grained—ready for fine furniture finishes. May be painted, or stained and finished to match any color scheme. Styling easily blends with any interior motif.

Interior is divided into two compartments; top compartment: 9¼x33½x14¾"; bottom compartment: 12½x33¾x14¾". Overall size: 24¼x35¾x16". Less base (see description at left). Shpg. wt., 48 lbs.

95 DZ 508. NET..... 23.90

ACOUSTONE Grille Cloth



A wide selection of grille cloth in highly attractive, color-fast patterns. Made of durable Saran plastic in an open weave to permit unrestricted passage of all frequencies. Can be stretched over large openings without sagging. Match any decorative motif, from contemporary to traditional. *Indicates matching woods: M—mahogany; B—blonde; W—walnut. Shpg. wt., per yard, 6 oz.

NEW Solar Grille Cloth "CANE" GRILLE CLOTH

Highly attractive, natural cane effect, on brown plastic grille cloth backing. Available only in 36" width (minimum order, 1 yard). Shpg. wt., per yard, 6 oz.
89 SX 028. NET PER YARD..... 2.89
89 SX 029. Over 1 yd., PER YARD.... 2.89

PANDANUS GRILLE CLOTH

(Not illus.) Imported natural-color, straw fabric. Very attractive. Especially suited for cabinets with modern motif. Available only in 27" widths (minimum order 1 yard). Shpg. wt., per yard, 6 oz.
86 SX 718. NET PER YARD..... 1.59
86 SX 775. To 10 1/2 yds. PER YARD. 1.59

"LUREX" GRILLE CLOTH

New, decorator-styled grille cloth. Employs blend of brown and tan shades, with gold and bronze Lurex thread for soft, flowing effect. Available in 36" width only (min. order, 1 yd.). Shpg. wt., per yard, 6 oz.
89 SX 048. NET PER YARD..... 4.41
89 SX 047. Over 1 yd., PER YARD.... 4.41

Description	Type No.	Fig.	*	Stock No.		NET Per Yd.
				In Lengths Over 1 Yd.	36"x36"	
Mahogany	211	A	M, B	86 SX 994	86 SX 976	2.45
Gold and Bronze	213	A	M, W, B	86 SX 997	86 SX 979	2.45
Bronze—Reddish cast	214	A	M, B	86 SX 995	86 SX 977	2.45
Dk. Mahogany with Gold thread	215M	A	M, B	86 SX 999	86 SX 982	3.42
Mahogany with Gold thread	217M	A	M, B	89 SX 050	89 SX 059	3.42
Black and White; Gold thread	413M	A	W, B	89 SX 051	89 SX 060	3.42
Gold; slight Brown thread	511	A	M, W, B	86 SX 996	86 SX 978	2.45
Blonde; Gold & Brown thread	515M	A	W, B	86 SX 998	86 SX 981	3.42
Soft Brown; Gold Squares	711M	A	W, B	89 SX 052	89 SX 061	3.42
Tan; slight Brown thread	811	A	W, B	89 SX 053	89 SX 062	2.45
Brown & Tan plaid; with Gold	1214M	A	M, B	89 SX 054	89 SX 063	3.42
Dark Mahog. with Gold Cobweb	300	B	M, W, B	89 SX 003	86 SX 988	4.15
Black with Gold Cobweb	453	B	B	89 SX 001	86 SX 986	4.15
Mahogany Boucle	290B	C	M, B	89 SX 055	89 SX 064	4.15
Tan & Gold Boucle	814BM	C	W, B	89 SX 056	89 SX 065	4.15
Brown-Tan-White Tweed	805	D	W, B	89 SX 057	89 SX 066	4.15
Solid Charcoal	452	.....	B	89 SX 000	86 SX 980	2.45
Simulated Straw	857	.....	W, B	89 SX 058	89 SX 067	3.42

Custom Installation Accessories

CUSTOM CHANGER BASES

E WELCOR MODEL W-1 UNCUT. Changer record box with blank top—can be cut to accommodate any make record changer or player. Made of smooth-sanded, ready-to-finish birch wood. Has top-quality, pre-mounted steel ball-bearing phonograph slides. 3 1/2 x 16 1/4 x 14 1/2". Wt., 8 lbs.

93 RX 494. NET..... 7.75

PRE-CUT FOR WELCOR CHANGERS. As above, but for Webcor Series 1600, 1800, 1900 changers.

95 RX 558. NET..... 7.75

PRE-CUT FOR GARRARD CHANGERS. Same size as above.

95 RX 543. For RC88-4, RC98-4.

93 RX 496. For RC121/MKII.

NET EACH..... **7.75**

PRE-CUT FOR COLLARO CHANGERS. Same size as above. For all models.

93 RX 484. NET..... 7.75

PHONO DRAWER SLIDES

F STANDARD DRAWER SLIDES. For installing record changers or turntables in cabinets. Heavy steel, with ball bearings. Slides are 15" long with a normal travel extension of 11". Can be attached to bottom or sides of phono drawer or base. Brackets have slotted holes to permit leveling. 4 lbs.

86 R 195. NET..... 1.90

STANDARD DRAWER SLIDES. As above, but 13" long. Shpg. wt., 4 lbs.

86 R 194. NET..... 1.90

HEAVY-DUTY DRAWER SLIDES. For deluxe installations. 18" long. Normal extension 16". Shpg. wt., 5 lbs.

86 R 199. NET..... 3.50

G-C DECORATIVE METAL GRILLE

G Heavy metal grille with brushed-brass finish. Adds decorative touch. Diamond pattern. 2 1/8 x 7/8". Av. wt., 4 lbs.

86 SX 070. 12x18". NET..... 1.76

86 SX 071. 18x24". NET..... 3.23

86 SU 072. 24x36". NET..... 6.14

86 SU 216. 24x48". NET..... 8.08

86 SU 217. 36x48". NET..... 11.47

ELECTRO-VOICE FINISHING KITS

H For applying quality finish. Contain stain, filler, sealer, shellac, high-gloss and satin varnishes, finishing paper, brushes and instructions. Shpg. wt., 6 lbs.

81 D 844. Model FK10. Walnut.

81 D 845. Model FK20. Mahogany.

81 D 846. Model FK30. Fruitwood.

81 D 847. Model FK40. Cherry.

81 D 848. Model FK50. Golden Oak.

81 D 849. Model FK60. Ebony.

Above Kits. NET EACH..... **4.90**

FIBERGLAS ACOUSTIC INSULATION

J Eliminates reverberation and distortion-causing standing waves inside speaker enclosures. Supplied in 1" thickness and 16" width for convenient installation. Shpg. wt., 2 lbs.

89 SX 951. 16-Ft. Length. NET..... 2.25

SPEAKER REDUCER RINGS

K For using smaller speakers in larger enclosures. Made of 3/8" plywood and cut to exact size. With speaker mounting nuts, bolts and washers.

MODEL R/R 12/8. For mounting 8" speaker in 12" speaker baffle or cabinet. 1 lb.

82 D 298. List. \$2.00. NET..... 89c

MODEL R/R 15/12. For mounting 12" speaker in 15" speaker baffle or cabinet. 1 1/2 lbs.

82 DX 299. List. \$2.75. NET..... 1.19

SPEAKER MOUNTING BOLTS

L Carriage bolts for mounting speaker to wood panel. Bolt head is flat—when countersunk will not show through grille cloth. Size 1/4 x 2" long. With square nuts. 4 per pkg. Shpg. wt., 4 oz.

44 N 202. NET PER PKG..... 13c

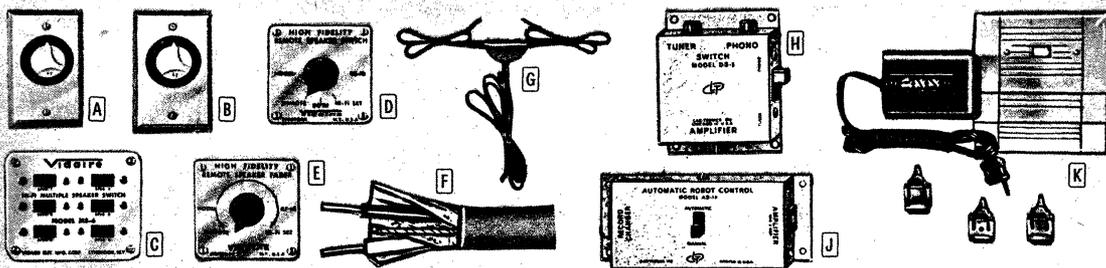
LEVEL & LEVELING SCREWS

M WELCOR W-3. Precision, chrome-plated circular level indicator and four adjustable, rubber-tipped leveling screws. For use with any turntable installed on wood base. Shpg. wt., 5 oz.

95 R 555. NET..... 1.80



HIGH-FIDELITY CABLES, CONNECTORS AND SWITCHES



LAB-TRONICS MULTI-SPEAKER SWITCH

A MODEL L1601. For selecting any one of 3 speakers, or any combination of them, from a single, convenient location. Can be used with multiple-speaker installations in the home, store, etc. Requires only three wires from the amplifier—common, 8 & 16 ohm (for 16 ohm speakers) or common, 4 & 8 ohm (for 8 ohm speakers). Has screw terminals, no soldering required. Wall plate is brushed brass. Fits in any regular outlet box. Mounting centers, 3¼". Size, 2¾x4½x1½". Shpg. wt., 8 oz.
94 S 450. NET.....5.83

LAB-TRONICS SPEAKER CONTROL

B MODEL 1612. Mounted on wall or cabinet. Has T-pad mounted on brushed brass wall plate. Fits any standard outlet box. Rated 4 watts continuous, 15 watts peak audio. Black molded escutcheon and white knob. 16-ohm control will handle single 16-ohm speaker or two 8-ohm speakers wired in series. 8-ohm control can be used for single 8-ohm speaker, two 16-ohm speakers wired in parallel or two 4-ohm speakers connected in series. Wall plate mounting centers, 3¼". Screw terminals. Size, 2¾x4½x1½". Shpg. wt., 8 oz.
94 S 451. L-1612/8. 8 ohms.
94 S 452. L-1612/16. 16 ohms.
NET EACH.....9.55

VIDAIRE SPEAKER FADER

E MODEL RF-10. For remote control of a speaker in a hi-fi set, radio or TV receiver. Can also be used at an external speaker for "on-the-spot" control. For 4-8 ohm speakers. Gold finished dial plate. With knob, brass screws and installation instructions. Size, 2½x4½x1¼". Shpg. wt., 8 oz.
94 S 473. NET.....1.41

ROFLEX SHEATHED CABLE

F For long speaker lines in indoor or outdoor applications. No. 14, 2-conductor solid. Thermoplastic insulated. Min. order 100 ft. Wt., 100 ft., 7 lbs.
47 W 549. PER 100'.....6.47

VIDAIRE REMOTE SPEAKER SWITCH

G MODEL MS-6—FOR UP TO 6 SPEAKERS. Highly versatile, remote speaker switch. Permits centralized control for as many as six remote speakers. Variety of uses—has six SPDT switches which provide 42 possible operating combinations—any combination of the six speakers can be played, or all can play simultaneously. Easily mounts on panel of hi-fi or public-address system for convenient operation. Designed for use with any size speaker and any speaker impedance. Gold-embossed brass plate blends with any surroundings. Size, 3¼x2¾". Shpg. wt., 8 oz.
94 S 438. NET.....2.64

D MODEL RS-10—FOR 2 SPEAKERS. Connects remote speaker to radio, TV or hi-fi set. Permits listening enjoyment in any room, porch or patio without "blasting" at source. Has 3 positions—turns on either speaker, or both. Brass plate is gold finished. With knob, and instructions. Size, 2½x2½x1¼". Shpg. wt., 8 oz.
94 S 474. NET.....1.17

FM TWIN-LINE ANTENNA

G Low cost, folded dipole type indoor antenna designed for FM reception. Eliminates need for outdoor antenna in many locations. Perfect for use where concealed antenna would be desirable, or where outdoor antenna installation is not feasible. Simply place under rug, behind cabinet or in any other out-of-the-way location. Antenna consists of 300 ohm twin-line with 6 ft. lead-in wire. Shpg. wt., 6 oz.
92 C 019. NET.....1.23

LAB-TRONICS TUNER-PHONO SWITCH

H MODEL DS-5. Low-cost, convenient accessory for modernizing amplifiers without sufficient inputs. Ideal for TV sets with one jack; for feeding 2 cartridges to 1 input; or for feeding signal to amplifier or recorder. Has 2 phono plug receptacles; output cable with pin-plug. 2x2x1". 6 oz.
91 S 578. NET.....1.76

LAB-TRONICS ROBOT SWITCH

J MODEL AS-10. For use with record changers having automatic shut-off feature. Robot switch has two mounted, female 110-v. sockets. Changer plugs into one receptacle; amplifier into the other. When the changer shuts off after last record has played, the robot switch also shuts off the amplifier. Switch can be used to interlock any two AC-operated devices drawing up to 3 amps. Size, 5x2x1". With line cord and plug. For 110-120 v. AC only. Shpg. wt., 1 lb.
91 S 579. NET.....5.14

REMCON REMOTE SWITCH KIT

K Enjoy the luxury of remote Off-On control of your hi-fi system from any room in the house. Kit consists of control unit (into which hi-fi system is plugged) and three switches with wall plates for standard AC wall boxes. Control unit handles up to 10 amps at 115 v. AC. Wiring to switches carries only 6 volts (supplied by control unit). Parallel wiring—as many switches as desired may be added. With instructions. For 110-120 v., 50-60 cycle AC. Shpg. wt., 1½ lbs.
94 S 435. NET.....9.95

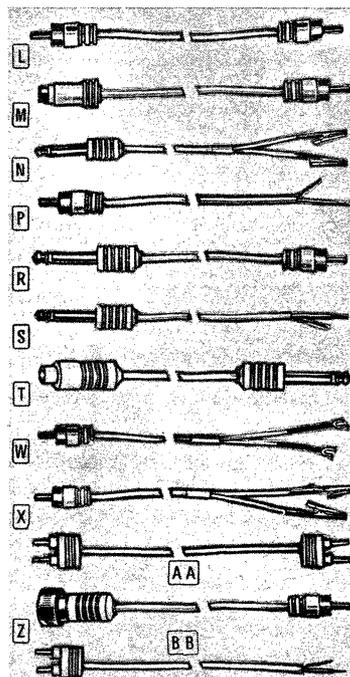
Accessories for Remcon Switch

100' T-COND. CABLE. 2 lbs.
47 T 360. NET.....2.43
TYPE S-1 EXTRA SWITCH. 4 oz.
94 S 436. NET.....35c
TYPE PL-1 EXTRA WALL PLATE. 4 oz.
94 S 437. NET.....30c

Lab-Tronics Hi-Fi Connector Cables

Superior-quality audio connecting cables. Invaluable accessories for trouble-free installation of hi-fi music system components. *New stereo cables; have dual pins spaced ½" apart (standard); two conductors in a single shield. Cables are soldered prior to molding to assure noise-free connections. All are shielded, except Figs. N, W, X and Type P502. Av. shpg. wt., 5 oz.

Stock No.	Type	Fig.	Description	NET
99 S 855	C101	L	18". Phono pin plug on each end	.61
99 S 856	C102	L	36". As above	.70
99 S 857	C103	L	72". As above	.88
94 S 456	C202	M	36". Phono pin plug and jack	.79
94 S 457	C203	M	72". As above	.97
89 S 957	P7210	N	10'. Straight phono plug and alligator clips	1.41
94 S 470	C106	P	36". Phono pin plug; other end stripped & tinned	.56
94 S 467	C107	P	72". Phono pin plug; other end stripped & tinned	.73
89 S 956	P6110	W	10'. Phono pin plug and spade lugs	.88
89 S 952	C4406	R	72". Phono pin plug and shielded phono plug	1.18
89 S 954	C4610	T	10'. Shielded phono plug & jack	2.20
89 S 953	C4006	S	72". Straight shld. phono plug; end stripped & tinned	1.03
89 S 955	P6210	X	10'. Phono pin plug and alligator clips	1.12
94 S 472	P502	.....	20'. 2-cond. speaker cable with spade lugs on each end	.94
94 S 458	C400	.....	Double phono pin jack adapter	.59
89 S 958	E803	Z	36". Mike connector and phono pin plug	1.03
89 S 959	E806	Z	72". Mike connector and phono pin plug	1.21
89 S 960	SP8403	AA	*36". Stereo cable; stereo dual plug each end	2.35
89 S 961	SP8410	AA	*10'. Stereo cable; stereo dual plug each end	2.65
89 S 962	SP8003	BB	*36". As above, but one end stripped & tinned	2.06
89 S 963	SP8010	BB	*10'. As above, but one end stripped & tinned	2.35



SELECTED RECORD CARE ACCESSORIES



PLASTIC CHANGER COVER

A UNIVERSAL MODEL. For all record changers. Protects record changer from harmful effects of dust, moisture, etc. Made of durable, high-quality plastic for dependable service. Shpg. wt., 6 oz.
94 R 495. NET..... 98c

TURNTABLE MODEL. Fits all turntables. Cover size, 22x16 $\frac{1}{4}$ x9".
95 R 649. NET..... 1.25

STYLUS INSPECTION MICROSCOPE

B Pocket-size stylus inspection microscope. For checking stylus tip to detect imperfections and signs of wear. Approximately 75-power magnification. An easy-to-use "must" item for the serious record collector. Has groove for convenient centering of stylus tip in microscope field. Has sturdy metal barrel; adjustable objective lens. Imported from Japan. Size, 3 $\frac{3}{4}$ " long x $\frac{1}{2}$ " dia. Shpg. wt., 8 oz.
65 RC 440. NET..... 1.95

WALCO PLASTIC DISC COVERS

C Protective sleeves for 10" and 12" records. Made of durable polyethylene plastic with thermoset seams to resist tearing. Prevent scratching of delicate record surfaces; seal out dust and moisture; end finger marking of records. Shpg. wt., 7 oz.
65 R 515. Pkg. of 15, 10" sleeves.
65 R 516. Pkg. of 15, 12" sleeves.
NET PER PACKAGE..... 58c

ESL "DUST BUG" RECORD BRUSH

D New, lightweight plastic arm with nylon brush, pad-type dust collector, and vial of pad cleaning fluid. Arm is suction-cup mounted to base. Nylon bristles loosen dust and dirt in record grooves and pad picks up particles. Fluid cleans pad and dissipates static. Shpg. wt., $\frac{1}{2}$ lb.
94 R 529. For Changers. NET..... 4.75
94 R 528. For Turntables. NET..... 5.75

WALCO CLIP-ON RECORD BRUSH

E Soft camel's hair brush for mounting on pickup arm; brushes record ahead of stylus to remove dust from grooves. Selected, lightweight fibers will not scratch record surfaces. Saves stylus and records. Easy to attach—simply clip in place. Does not interfere with tone arm tracking or stylus pressure. Shpg. wt., 3 oz.
69 R 226. NET..... 49c

"KLEENEEDLE" BRUSH

F Automatic record changer needle brush. Brush is positioned to face upward. Whenever pickup arm is cycled, stylus is wiped over brush. Removes accumulations of dust, lint, etc., from stylus tip—minimizes distortion in record reproduction and reduces record and stylus wear. Base has adhesive pad for easy mounting on any surface. Shpg. wt., 4 oz.
96 R 769. NET..... 98c

WALCO ANTI-STATIC RECORD SPRAY

G Easy-to-use, anti-static record spray. Deposits thin anti-static film on record surface. Aids in preventing records from accumulating damaging and noise-producing dust and lint. In handy 6 oz. aerosol spray can. Shpg. wt., 7 oz.
65 R 525. NET..... 88c

4-SPEED STROBOSCOPIC CARD

H Use with any 50 or 60-cycle neon, argon or fluorescent lamp, or low-wattage incandescent lamp. Accurately checks 16 $\frac{2}{3}$, 33 $\frac{1}{3}$, 45 or 78 rpm record speeds. Quickly tells you when equipment needs adjustment. Easy to use—simply place on record changer or turntable as with any record. Turntable is accurately revolving at desired speed when appropriate band of dots appears to be stationary. Shpg. wt., 2 oz.
69 R 915. NET..... 20c

ANTI-STATIC RECORD CLOTH

I 112 square inches of soft, chamois-like lintless fabric, impregnated with chemical compound. Keeps records free of noise producing dust and electrostatic charge. Easy to use—simply wipe record with light pressure. Shpg. wt., 4 oz.
69 R 235. NET..... 59c

ACOUSTIC ISOLATION PAD

K Designed to minimize acoustic feedback, reduce excess noise and protect furniture finishes from heat. Place under record changer bases, tape recorders, amplifiers, etc., to absorb vibration. Made of highly resilient urethane foam. Size, 13 $\frac{1}{2}$ x16 $\frac{1}{2}$ ". Shpg. wt., $\frac{3}{4}$ lb.
69 R 234. NET..... 1.00

PROTECTIVE TURNTABLE MATS

L 12" Diameter. Low-priced, foam rubber record player mat. Fits any turntable or changer. Cushions record drop on automatic changers. 12" dia; $\frac{3}{16}$ " thick. 4 oz.
69 R 233. NET..... 69c
9 $\frac{3}{4}$ " Diameter. Shpg. wt., 4 oz.
69 R 280. NET..... 59c

NEW WEATHERS "DISCUSHION"

M MODEL P-684. Unique idea in record pads. Protects grooves from scratches, dust on turntable, etc. Has 3 circular ridges, in graduated heights, centered 7", 10" and 12" from spindle hole. A 12" record rides on the outside ridge; 10" record on center ridge; 7" on inside ridge. Only rim of record touches ridge. Dia., 12". 5 oz.
93 R 710. NET..... 2.98

WALCO TURNTABLE LEVEL

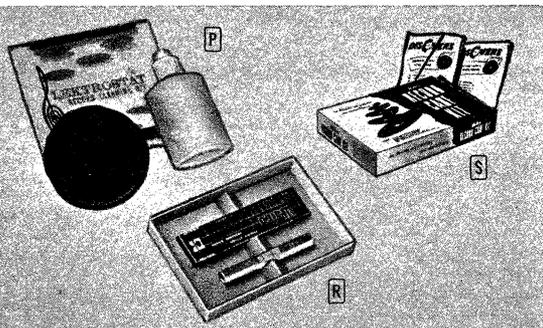
N For accurate levelling of turntables and record changers; insures correct tracking of lead-in and changer trip grooves, and prevents excessive record and stylus wear. Gold-finish. Shpg. wt., 4 oz.
69 R 225. NET..... 59c

SELECTED RECORD CARE KITS

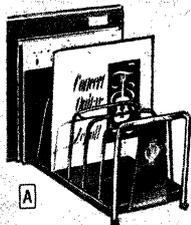
P NEW LEKTROSTAT RECORD CLEANING KIT. For thoroughly and safely removing grease, lint and dust from record grooves. Kit contains plastic bottle (1 $\frac{1}{4}$ fluid oz.) of anti-static detergent fluid, and tufted wiping pad. Solution is applied to record; then wiped with pad. Shpg. wt., 5 oz.
64 R 866. NET..... 1.96

R "BALANCED SOUND" KIT. Inexpensive and easy to use, this handy kit contains a quick-reading stylus pressure gauge and a highly accurate turntable level. These two valuable phono accessories help preserve records—add to the life of styli—improve fidelity. Pressure gauge enables user to quickly determine correct pressure. Level shows slightest tilt in turntable. Shpg. wt., 4 oz.
65 R 527. NET..... 88c

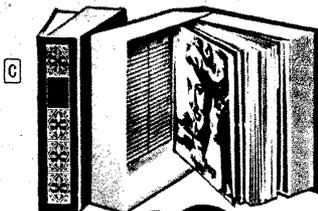
S WALCO RECORD CARE KIT. A complete, easy-to-use record care kit. Contains: 6 oz. can of Stati-Clean, anti-static record spray and cleaner; 2 pkgs. plastic disc covers (12—12" sleeves; 15—10" sleeves); needle brush for cleaning needle tip; and a very informative book, by K. A. Barleben, "Guide to the Care of Modern Recordings." Shpg. wt., 2 lbs.
65 R 526. NET..... 2.91



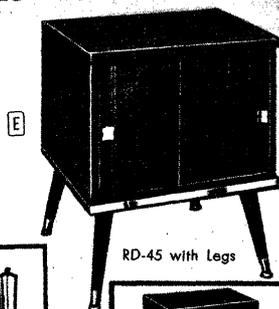
QUALITY PHONOGRAPH ACCESSORIES



A

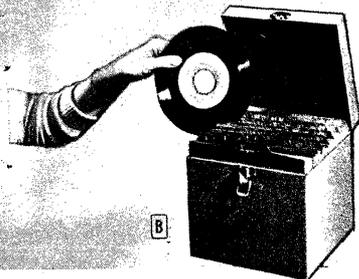


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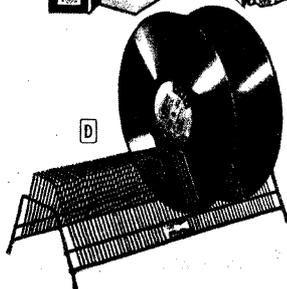


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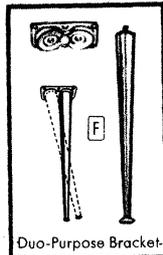
RD-45 with Legs



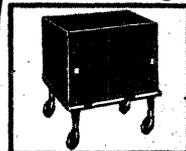
B



D



F Duo-Purpose Bracket



CRD-45 with Wheels

7", 10" & 12" RECORD RACK

A LYRIC MODEL 41 LP-EP RECORD RACK. Handsomely styled, black and brass-plated record rack for LP and EP records. Accommodates sixty 7", 10" or 12" records in jackets. Contemporary styling makes it a highly attractive room accessory, as well as a useful and protective record holder. Five convenient separators. Entire unit is just 11" long—ideal for use where only limited space is available. Has four rubber-tipped legs to prevent marring finish of floor or furniture. Durable all-steel construction. Shpg. wt., 2½ lbs.

96 R 848. NET..... 3.45

RECORD STORAGE AND CARRYING CASES

B 7" & 12" RECORD CASES. Smartly styled record carrying cases for travel or home storage. Handsome, sturdy, and easy to carry. Perfect for owners of portable public address music systems; for schoolroom use; etc. Extra-strong, light metal construction. 7" case holds 80 records, 12" case holds 36 records. Both cases have comfortable plastic carrying handles and brass plated draw-bolt locks.

Each is completely indexed with embossed dividers, convenient index card, and numbered identification stickers for quickly locating the record of your choice. Model 46-P 12" case has sponge rubber strips which provide additional record protection. Durable two-tone wrinkle finish in highly attractive green and gray.

MODEL 46-P—12" CASE. Wt., 7 lbs.
95 RX 894. NET..... 4.90
MODEL 49—7" CASE. Shpg. wt., 4 lbs.
96 RX 849. NET..... 3.95

STYLUS PRESSURE GAUGES

G WEATHERS STYLUS GAUGE. Simple-to-operate, accurate measure of stylus pressure. As the pickup arm tracks on a revolving record, hook the gauge under the arm and gently lift. As soon as sound from the revolving record ceases, the scale on the gauge will indicate stylus force in grams. Calibrated from 0 to 10 grams for extreme accuracy. Shpg. wt., 5 oz.

69 R 232. NET..... 2.00

H NEW GRAY PG200 STYLUS PRESSURE GAUGE. Unique, "microbalance" pressure gauge. Uses laboratory-balance principle to achieve extreme accuracy from 1 to 10 grams. No springs or cams. Simple set correct weight for your cartridge (as recommended by mfr.) on the gauge. Then adjust counterweight on pickup arm until arm is in balance. Shpg. wt., 6 oz.

93 R 449. NET..... 2.50

RECORD ALBUMS

C STANDARD. Protect your records with this low cost, sturdy 12-pocket album. Wine color fabrikoid cover. With record index. Shpg. wt., 1¼ lbs.

96 R 850. 10" Size. EACH..... 68c
3 or More, EACH..... 61c
96 RX 851. 12" Size. EACH..... 85c
3 or More, EACH..... 76c

SPANISH-GRAINED. Beautiful maroon leatherette cover. Records are held in 12 heavy Kraft-paper envelopes in binder. Gold stamped back. Complete with handy index. Shpg. wt., 2 lbs.

96 R 856. 10" Size. EACH..... 90c
3 or More, EACH..... 81c
96 RX 857. 12" Size. EACH..... 1.06
3 or More, EACH..... 96c

RECORD HOLDER

D FLAT-TOP RECORD HOLDER. Low-cost uniquely styled record holder. Accommodates sixty 7", 10" or 12" records with or without jackets. Contemporary flat-top design in attractive brass finish complements any style of room decoration. Only 16½" long—ideal for a large collection of records that must be stored in a limited space. Dividers are of heavy gauge steel construction with brass plating and clear lacquer coating. Plastic-tipped legs. Size, 16½x8x5¼". Shpg. wt., 3 lbs.

94 RX 942. NET..... 2.25

J GARRARD STYLUS PRESSURE GAUGE. A popular, easy-to-use pressure gauge. Accurately measures weight exerted by a stylus upon a record. Scientifically calibrated and marked in large, easy-to-read markings in one gram intervals to 15 grams. All moving parts are light-weight alloy, completely sealed for added protection. Red and ivory plastic case. Shpg. wt., 5 oz.

96 R 504. NET..... 2.45

K CLARKSTAN STYLUS PRESSURE GAUGE. Sensitive gauge featuring two scales. One scale is calibrated in grams from 0 to 28.4; other scale is calibrated from 1 to 4 ounces. Ruggedly built; has only one moving part; no linkage. Soft metal cups on spring for accepting all types of cartridges without damage to sensitive stylus tips. Shpg. wt., 5 oz.

85 R 029. NET..... 1.76

RECORD STORAGE CABINET

E UNIVERSAL WOODCRAFTERS, MODEL RD-45. An extra-spacious phonograph table and record storage cabinet with sliding doors, at a remarkably low price. Strongly constructed of 5/8" plywood with 1/2" Duolux doors. Available in highly attractive mahogany or blond furniture veneers to blend with any decor. Top surface is large enough to easily accommodate almost any record player or tape recorder. Interior provides space for storing 7", 10" and 12" records.

Has removable dividers for convenient record storage. Divider forms two large compartments which hold about 100 LP albums. Gracefully tapered legs have solid brass ferrules and gold-flecked levelers. Cabinet stands 27" high. Top surface size: 22" wide, 20" deep. Shipped with legs removed—legs quickly and easily fastened without tools. Steel bolts screw into steel sockets for exceptionally rigid, wobble-free support. Shpg. wt., 32 lbs.

92 RU 850. Mahogany. NET
92 RU 851. Blonde. EACH..... 18.50

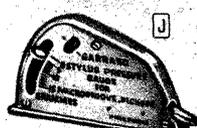
MODEL CRD-45. Same cabinet as above, but with 3" plastic wheels. 26" high. Wt., 34 lbs.
92 RU 852. Mahogany. NET
92 RU 853. Blonde. EACH..... 19.95

F TAPERED BRASS LEG KITS. New, seamless metal leg kits, in 4 handy lengths. For installing under do-it-yourself tables, cabinets, etc. Kits include 4 tapered legs, 4 duo-purpose brackets (for mounting legs in straight or angle position), and screws. Handsome brass finish.

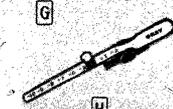
79 D 196. 3½" Kit. Wt., 2 lbs. NET... 3.19
79 D 197. 6" Kit. Wt., 3 lbs. NET..... 3.39
79 DX 198. 12" Kit. Wt., 4 lbs. NET... 3.98
79 DX 199. 14" Kit. Wt., 5 lbs. NET... 4.19



G



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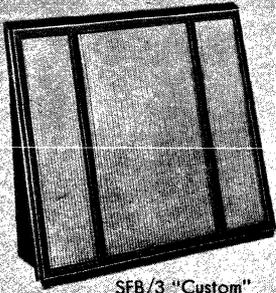


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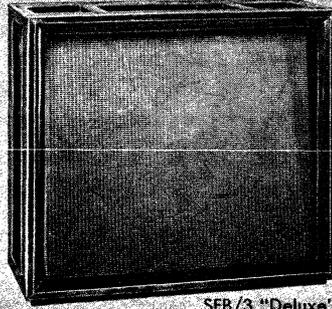
WHARFEDALE - RJ - LEAK BRITISH INDUSTRIES GROUP PRODUCTS



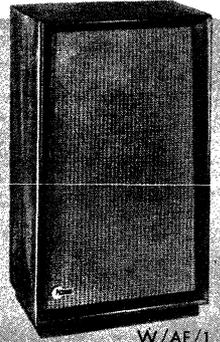
SFB/3 "Custom"



**WHARFEDALE
SPEAKER
SYSTEMS**



SFB/3 "Deluxe"



W/AF/1

SFB/3 "CUSTOM" SPEAKER SYSTEM

NET
\$195.02
\$19.50 Down

Imported, skillfully designed speaker system. Employs a resonance-free baffle, sand-filled to effectively damp all vibration. Open design allows omni-directional sound—permits using the "custom" anywhere—against a wall, in a corner, in the center of the room, etc. Provides magnificent performance when used in pairs for stereo. Three perfectly matched Wharfedale speakers provide frequency response from 30 to 20,000 cps. Has 12" woofer for bass; 10" speaker for mid-range; 3" tweeter for crisp, clean treble. Carefully selected, highest quality woods, handsomely finished to enhance the decor of any room. Available in mahogany, blonde or walnut finish—specify your choice when ordering. Impedance, 15 ohms. Size (HWD), 31x34x12". Shpg. wt., 100 lbs.
79 DZ 155C. NET.....195.02

SFB/3 "DELUXE" SPEAKER SYSTEM

NET
\$244.02
\$24.40 Down

A deluxe 3-way speaker system with same speaker components as "Custom" system at left. Also employs a sand-filled baffle to eliminate resonance. Provides clean, natural sound throughout the audio spectrum. Made of selected hardwoods, the enclosure is simply but elegantly styled. Can be placed anywhere in the room, since its open design provides omni-directional sound. Speaker components include Wharfedale's 12" low-frequency woofer, 10" mid-range speaker and 3" tweeter—specifically designed to work together as a single unit in this particular enclosure. Exceptional smoothness and excellent response (30 to 20,000 cps), for full-range sound. In mahogany, blonde or walnut finish—specify choice. Impedance, 15 ohms. 31½x35½x13". Wt., 105 lbs.
79 DZ 156C. NET.....244.02

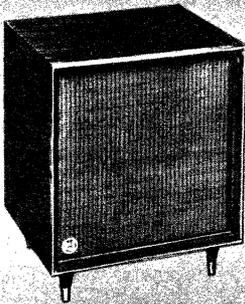
W/AF/1 SPEAKER SYSTEM

NET
\$141.61
\$14.16 Down

Slender, gracefully styled speaker system—ideal for use in pairs in stereo installations. Consists of the superb Wharfedale W10/FSB 10" speaker and 3" tweeter with level control, mounted in the unique "Acoustic Filter" enclosure. A patented design, the enclosure has two separate internal chambers, isolated from each other by a horizontal partition with five ¼" slits. One chamber contains the woofer and tweeter—sound originating here is "filtered" through the slits and into the other chamber, which acts as an acoustic vent. As a result, reproduction is remarkably clean and free of cabinet resonances. In mahogany, lined oak or walnut finish—specify choice. Frequency response: 25 to 18,000 cps. Impedance, 15 ohms. HWD, 30x17x12". Shpg. wt., 60 lbs.
79 DZ 157C. NET.....141.61



RJ/12-F Enclosure



RJ/Super 8
Speaker System

RJ/SUPER 8 SYSTEM WITH 8" WHARFEDALE SPEAKER

Two outstanding components, combined to provide a complete speaker system of compact size, attractive appearance and excellent performance. The shelf-type RJ-8 enclosure employs the Wharfedale 8/FS/AL8" full-range speaker for rich, undistorted sound. Perfect for minimum space applications. Available in mahogany, blonde or walnut finish—specify choice when ordering. Impedance, 10 ohms. HWD, 11x23½x10". Shpg. wt., 23 lbs.
79 DU 151C. Only \$5.95 Down. NET.....59.50

UNFINISHED RJ/SUPER 8 SYSTEM. As above, but in unfinished birch hardwood. Sanded, ready for finishing.
79 DU 152. Only \$5.05 Down. NET.....50.50

RJ-8 ENCLOSURE ONLY. Unfinished; less speaker. 20 lbs.
79 DU 150. Only \$2.85 Down. NET.....28.50

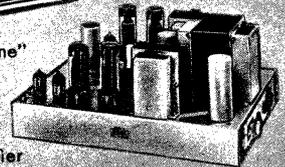
RJ/12-F FLOOR-MODEL SPEAKER ENCLOSURE ONLY

Accommodates any 12" speaker. Compact in size, the RJ/12-F employs patented RJ internal design for unexcelled sound in an enclosure of this size. Stands on tapered legs, tipped with brass ferrules. Made of beautifully finished, selected hardwoods. In mahogany, blonde or walnut finish—specify choice. HWD, 20x20x16". Less speaker. Shpg. wt., 37 lbs.
79 DU 154C. Only \$5.60 Down. NET.....56.00

MODEL RJ/12-S UNFINISHED DOUBLE-SHELF ENCLOSURE. For any 12" speaker. Fits into double-shelf space of a bookcase. Unfinished birch hardwood, sanded. 24x21x10". Less speaker. 32 lbs.
79 DU 153. Only \$3.85 Down. NET.....38.50



"Stereo Point One"
Preamp



"Stereo 50"
Basic Amplifier

NEW LEAK "STEREO POINT ONE" STEREO PREAMP

Superb new stereo preamp from this famous British manufacturer. Accommodates any stereo or monaural input—has provisions for playing left channel alone, right channel alone, both channels combined (from either left or right inputs), stereo and stereo channel reverse. Dual inputs for tape head, phono, tuner, microphone and extra. Controls: Function (Stereo, Stereo Channel Reverse, Left Input to both channels for monaural, Right Input to both channels for monaural, Stereo Pickup converted to monaural); dual-ganged Bass—operates on both channels simultaneously; dual-ganged Treble; Master Volume; Balance; Rumble Filter. Dual outputs for stereo or monaural tape recording. Distortion: less than 0.01% for 125 mv output (drives any Leak amplifier to full output). Takes power from amplifiers, below. 10½x3¾x5". 5 lbs.
91 SU 696. Only \$10.73 Down. NET.....107.31

NEW LEAK "STEREO 50" 50-WATT STEREO BASIC AMPLIFIER

Output: 25 watts per channel; 50-watt output for monaural use. Response: ±0.5 db, 20-20,000 cps. Harmonic Distortion: 0.1% for 20-watt output at 1000 cps. Hum: -80 db. Output Impedances: 4, 8 and 16 ohms per channel. 4-EL34 output tubes. 17x13x9". For 100-125 v., 50-100 cycle AC. Shpg. wt. 30 lbs.
91 SU 697. Only \$18.52 Down. NET.....185.22

"STEREO 20" 24-WATT STEREO BASIC AMPLIFIER, Not illustrated—similar to above. Output: 12 watts per channel; 24-watts monaural. Other specs as above. 4-EL84 tubes. 15x11x9". 18 lbs.
91 SU 698. Only \$14.60 Down. NET.....146.02

NEW STEREPHONIC PHONOGRAPHS

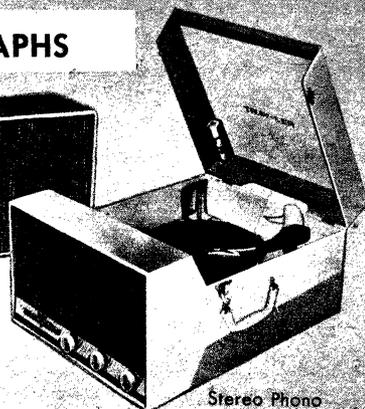


Stereo Phono

Accessory Speaker

Accessory Speaker

ENJOY EXCITING NEW STEREPHONIC SOUND WITH THESE LOW-COST STEREO PHONOGRAPHS



Stereo Phono

TOP VALUE PORTABLE STEREO PHONOGRAPH

\$59.95 • V-M Changer With Stereo-Monaural Switch
 Less
 2nd Speaker
 • Includes Stereo Balance Control
 • 2—5 1/4" Speakers; 2 More in Accessory Unit

New, advanced-design portable 4-speed phonograph. Plays newest stereo records, LP's and 78's monaurally—for thrilling stereo sound from newest stereo records, add the accessory speaker unit listed below. New V-M changer plays 7", 10" and 12" records in 16 2/3, 33 1/3, 45 and 78-rpm speeds. Intermixes 10" and 12" records of the same speed; shuts off automatically after last record is played. Silent turntable drive mechanism assures constant speed with minimum wow; employs ball bearings for rumble-free performance.

Other features include: special-design amplifier with voltage-doubler circuit. Provides 4-watt output per channel when being used stereophonically; or a peak of 8 watts for monaural use. Two built-in 5 1/4" speakers. New stereo balance control for balancing both channels for best stereo effect. New Astatic stereo cartridge with dual sapphire needles, mounted in die-cast aluminum pickup arm. Controls: Off-On/Volume, Treble, Bass, Stereo Balance, Stereo-Monaural switch. Attractive case is covered in washable, pyroxylin-coated leatherette, color-styled in brown and ivory. HWD: 9 3/4 x 16 1/2 x 20 1/2". Less accessory speaker unit and 45-rpm spindle, below. For 110-120 v., 60 cycle A.C. Shpg. wt., 33 lbs.

89 RU 452. \$6.00 Down. NET. 59.95

ACCESSORY SPEAKER UNIT. Use with above for stereo sound. Consists of two 5 1/4" speakers in a case that matches the phonograph. Includes 15-ft. cable and plug for inserting into phonograph. Size: 9 3/4 x 16 1/2 x 7". Shpg. wt., 12 lbs.

89 RX 453. NET. 12.95

45-RPM SPINDLE. Changes 45-rpm records automatically. Wt., 8 oz. 96 R 329. NET. 2.31

DELUXE PORTABLE STEREO PHONOGRAPH

\$68.50 • BSR Changer With Stereo-Monaural Switch
 Less
 2nd Speaker
 • Built-In 6" Woofer and 3" Tweeter—
 Identical Speakers in Accessory Unit

New, attractively styled portable phonograph. Plays new stereo and monaural LP records monaurally—by adding the accessory speaker unit below, you can enjoy the luxury of stereo sound from stereo records. Equipped with an input jack for quickly and easily plugging in accessory speaker system to form a true, stereo music system. Provides 5-watt peak output per channel when used stereophonically—10-watt peak output for monaural use.

Four-speed changer plays 7", 10" and 12" records at 16 2/3, 33 1/3, 45 and 78-rpm speeds. Intermix feature for 10" and 12" records of the same speed. An interchangeable needle is provided with the phonograph for playing 78-rpm records. Shuts off automatically after last record is played. Rubber turntable mat protects delicate record grooves. Controls: Bass; Treble; Off-On/Loudness; switch for stereo operation when using accessory speaker unit. Lightweight pickup arm has stereo cartridge with sapphire needle. Built-in 6" woofer and 3" tweeter provide clean, balanced sound. Attractive luggage-styled wood case, covered in black-and-white, simulated leather fabric. HWD: 9 1/4 x 15 x 19". Includes 45-rpm spindle and interchangeable sapphire needle for 78-rpm records. For 110-120 v., 60 cycle A.C. Shpg. wt., 27 lbs.

89 RU 454. \$6.85 Down. NET. 68.50

ACCESSORY SPEAKER UNIT. Use with phonograph above to complete a stereo system. Employs 6" woofer and 3" tweeter identical to those in phono. Wood enclosure, covered in simulated leather fabric. Styled in handsome black and white. Includes 15-ft. connecting cord and plug. HWD: 9 1/2 x 15 x 6 3/8". Shpg. wt., 8 lbs.

89 RX 455. NET. 13.95

NEW SINGLE-PLAY MONAURAL PHONOGRAPH

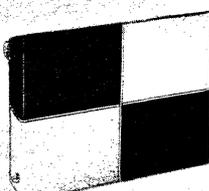


3 SPEEDS
33, 45 & 78 RPM

New, low-cost single-play portable monaural phonograph. Perfect for dens, recreation rooms, etc. Features 4" PM speaker for surprisingly "large" sound from a unit this small. Plays 7", 10" and 12" records singly, at 33 1/3, 45 and 78-rpm speeds. Retractable 45-rpm spindle. Lightweight pickup arm has high-output turnover cartridge with dual sapphire needles. Locking clip, pickup arm rest. Controls: Tone; Off-On/Volume Speed Selector with motor "off" position. Durable wood cabinet covered with mallard green plastic pyroxylin. HWD: 5 3/4 x 12 1/2 x 10". U.L. Approved. For 110-120 v., 60 cycle A.C. Shpg. wt., 9 lbs.

89 RX 456. NET. 19.95

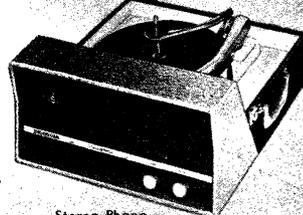
COMPLETE PORTABLE STEREPHONIC PHONOGRAPH



Houses 2—4" Speakers



DETACHABLE COVER HOUSES SECOND SET OF SPEAKERS



Stereo Phono

NET
\$69.95
 \$7.00 Down

New portable stereo phonograph that's all ready to set up and provide thrilling stereo sound from new stereo records! Features dual amplifier section (2 watts peak per channel), with each channel wired to its own set of 4" speakers. The phonograph itself employs two 4" speakers; second set of 4" speakers is housed in the removable phonograph cover. 15-ft. cable on cover permits placement of second set of speakers for optimum stereo sound. Pickup arm has ceramic stereo cartridge with dual sapphire needles. Plays stereo records stereophonically—monaural LP records monaurally—and standard 78's. V-M changer features heavy-duty motor for constant speeds and rumble-free operation. Plays 7", 10" and 12" records at 16 2/3, 33 1/3, 45 and 78-rpm speeds. Intermixes 10" and

12" records of the same speed. Stacks up 7" and 10" records (of the same speed) in any sequence—indexing of the tone arm is controlled automatically. Changer and amplifier both shut off automatically after last record has played. Ganged volume and tone controls for regulating sound of each channel from single control knob. Lid and phono cabinet of wood, covered in strikingly attractive, blue and charcoal gray plastic fabric, with gold plastic trim. Lid snaps onto phono to form one carrying case. Phono size: 9 x 19 x 19"; lid size, 4 x 19 x 14 1/2". Less automatic 45-rpm spindle, below. U.L. Approved. For 110-120 v., 60 cycle A.C. Shpg. wt., 30 lbs.

89 RU 451. NET. 69.95

45-RPM AUTOMATIC SPINDLE. Eliminates need for spindlers. Wt., 8 oz.

96 R 329. NET. 2.31

SELECTED TITLES IN HIGH-FIDELITY STEREO RECORDS

SAVE
20%
OFF LIST

New stereo records—at a big 20% savings off regular list price. Offer brilliantly realistic stereophonic sound—each record is a thrilling adventure in 3-dimensional music. All records are 12", 33 1/3 rpm speed. Engineered and recorded with painstaking care, to highest audio standards. *Note: Stereo records must be played with a stereo cartridge.* When ordering stereo records, give Stock Number, Record Number and Record Title. Av. shgp. wt., 10 oz.

ABC PARAMOUNT

Record Title	Record No.
WALTZES OF STRAUSS IN HI-FI. The Valentino Orchestra. Blue Danube, etc.	ABCS-143
NOSTALGIA IN HI-FI. Burt Buhrman at the Organ. Blue Moon, Diane, Anniv. Waltz, etc.	ABCS-209
EMPIRE CITY SIX SALUTES THE COLLEGES. Washington & Lee Swing, On Wisconsin, etc.	ABCS-210
MUSIC TO BREAK A SUB-LEASE. Don Costa's Free Loaders. Five Foot Two, Margie, etc.	ABCS-212
EYDIE GORME VAMPS THE ROARING 20'S. With Don Costa's Orchestra.	ABCS-218
MORE COLLEGE DRINKING SONGS. Sung by the Biazers; mixed collegiate favorites.	ABCS-219
HEAVENLY SOUNDS IN HI-FI. Ferrante and Teicher; duo-piano team. Stardust, etc.	ABCS-221
WORLD WAR II SONGS IN HI-FI. The Four Sergeants. The Marine Hymn, etc.	ABCS-222
HI-FI IN AN ORIENTAL GARDEN. Authentic Oriental music and artists.	ABCS-224
THE NEW BILLY TAYLOR TRIO. B. Taylor, piano; Earl May, bass; Eddie Thippen, drums.	ABCS-226
HI-FI PARADISE Roy Smekc. Moonlight Bay, Paradise, My Blue Heaven, etc.	ABCS-234
SOUTH PACIFIC IN JAZZ. Tony Scott Quartet swings South Pacific selections.	ABCS-219
68 RR 416. Specify Record No. and Title. NET EACH	3.98

BEL CANTO

PLAIN VANILLA. The Dixieland music of Larry Fotine's Beale St. Buskers.	SR-1001
ALOHA TO JAZZ. 5 selections by The Polynesians; 2 by Buddy Collette's Quintet.	SR-1002
POLKA TIME. Razzberry Reynolds and His Polka Band. Mixed Polka favorites.	SR-1003
JAZZ ON THE BOUNCE. Side 1: Curtis Counce Quintet, Side 2: B. Collette Quintet.	SR-1004
LISTENING TO LARRY. Larry Fotine and His Syncopated Music.	SR-1005
HARRY MARSHARD PLAYS RESORT FAVORITES. H. Marshard's Society Dance Orchestra	SR-1006
68 RR 415. Specify Record No. and Title. NET EACH	4.76

CONCERT-DISC

RE-PERCUSSION. The Percussive Art Ensemble, conducted by Richard Schory.	CS-21
SOUND IN THE ROUND. VOLS. I AND II. Ping-pong, air hammer, fireworks, etc.	CS-22
SELECTIONS FROM MY FAIR LADY & GIGI. Radiant Velvet Strings; C. Giovannini.	CS-23
DANCING AND DREAMING. The Jay Norman Quintet. Somebody Loves Me, Solamente, etc.	CS-24
NUTCRACKER SUITE. Symphony of the Air. Selections from this favorite work.	CS-25
OPPOSITE SIDES OF THE MIKE. Big Mike Simpson & His Band; Tompo Nuevo.	CS-26
SWINGIN' EASY. The Modernes. Five Foot Two, Besame Mucho, Foggy Day, etc.	CS-27
MUSIC OF JOHANN STRAUSS. Leonard Sorkin conducting the Sinfonietta.	CS-28
FAVORITE SHOW TUNES. The Sorkin Strings play Surrey with the Fringe on Top, etc.	CS-29
SONGS OF STEPHEN FOSTER—SONGS OF AMERICA. The John Halloran Choir.	CS-30
VIVALDI: CONCERTO GROSSO IN D MINOR/BACH: PRELUDE IN E MAJOR/ETC. Sorkin Symph.	CS-31
ORGAN CONCERT BY AUSTIN LOVELACE. Bach's Prelude and Fugue in A Minor, etc.	CS-32
MARIMBA TROPICALE! Jose Bethancourt and His Orchestra. La Comparsa, Inspiracion, etc.	CS-33
68 RR 418. Specify Record No. and Title. NET EACH	5.56

CONTEMPORARY

MUSIC TO LISTEN TO BARNEY KESSEL BY. B. Kessel, A. Previn, S. Manne, B. Collette.	S-7001
MY FAIR LADY. Shelly Manne & His Friends. Modern jazz performances.	S-7002
LEROY WALKS! The Leroy Vinnegar Sextet. I Walk Alone, Walk On, etc.	S-7003
PAI JOEY. Andre Previn. Shelly Manne. Red Mitchell. Jazz treatment of "Joey" tunes.	S-7004
FIREHOUSE FIVE PLUS TWO GOES TO SEA. Peoria. Minnie the Mermaid. Over the Waves, etc.	S-7005
MEYERSON: QUARTET IN E FLAT/GLINKA: QUARTET IN F. Westwood String Quartet.	S-7006
68 RR 419. Specify Record No. and Title. NET EACH	4.76

COOK

MASTERPIECES OF THE THEATRE. Boston Recording Festival Orch. Willis Page, Cond.	2064-SD
RAIL DYNAMICS. Locomotive and train sounds; right-of-way rainy night recording.	2070-SD
THE KING OF ORGANS. Bill Floyd at the Wuritzer of Paramount theatre in N.Y.	2150-SD
68 RR 424. Specify Record No. and Title. NET EACH	4.76
COOK'S TOUR OF STEREO. Stereo demonstration record; giant Mexican marimba, etc.	2004-SD
68 RR 423. Specify Record No. and Title. NET EACH	3.18

MERCURY

HAVANA IN HI-FI. Richard Hayman's Orchestra playing Rhapsodero, Cordoba, etc.	SR-60000
LET'S DANCE. David Carroll's Orchestra playing Let's Dance, My Sin, etc.	SR-60001
SARAH VAUGHAN & BILLY ECKSTINE SING THE BEST OF IRVING BERLIN.	SR-60002
AMERICA'S MOST DANCEABLE MUSIC. Griff Williams and His Orchestra.	SR-60007
68 RR 427. Specify Record No. and Title. NET EACH	4.76

OMEGA DISK

CHAMPAGNE MUSIC. Lloyd Mumm's Orchestra. Bubbles in the Wine, Louise, etc.	OSL-1
MARX MAKES BROADWAY. Dick Marx, piano; Buddy Collette, flute; etc. Show tunes.	OSL-2
DESTINATION MOON. Heinz Sandner conducting Omega Orches. on a symphonic trip.	OSL-3
JAZZ ROLLS ROYCE. Lighthouse All-Stars plus 10 on Bob Cooper compositions.	OSL-5
ROLLING WITH BOLLING. Claude Bolling's Big Band. St. Louis Blues, etc.	OSL-6
JUNGLE ECHOES. Chaine and His African Safari. Wild percussion recording.	OSL-7
PETROUCHKA. Stravinsky's sonic masterpiece. Cento Soli Orchestra of Paris.	OSL-8
SYMPHONIE FANTASTIQUE. A thundering orchestral display. Cento Soli Orchestra.	OSL-9
CINEMA ITALIANO. Pola Chapel sings tunes from Italian films. Anna, La Strada, etc.	OSL-10
HI-LO'S IN STEREO. With Frank Constock's Orchestra. Top vocal group.	OSL-11
68 RR 426. Specify Record No. and Title. NET EACH	4.76
SOUNDS OUT OF THIS WORLD. Stereophonic demonstration record.	OSD-1
68 RR 425. Specify Record No. and Title. NET EACH	4.76

URANIA

SAINT-SAENS: SYMPHONY NO. 3 IN C MINOR, OP. 78. Vienna Philharmonic Orch.	USD-1001
OFFENBACH: GAITE PARISIENNE. Rene Liebowitz, Cond. London Philharmonic Orch.	USD-1002
STRAUSS SPARKLES IN HI-FI. Waltzes, marches, polkas. Vienna Philharmonic Orch.	USD-1003
ROSSINI-RESPIGHI: LA BOUTIQUE FANTASQUE. Complete ballet. London Philharmonic	USD-1004
SOCIETY DANCES TO MIL SHAW & HIS ORCHESTRA AT THE ST. REGIS. Dance melodies.	USD-1005
68 RR 420. Specify Record No. and Title. NET EACH	4.76

Convert to Stereo Records

If you now have a hi-fi system, you may easily convert it for playing stereo records by adding a stereo cartridge to your changer or turntable, plus another amplifier and speaker for the second sound channel. If you already have a stereo tape system, conversion is simple—all you need do is plug a changer or turntable equipped with a stereo cartridge, into the phono inputs.

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BEL CANTO

Tape Title	Tape No.	Stock No.	NET
SYMPHONY FOR GLENN. Hamburg Philharmonia, orig. Miller tunes.	ST-8	68 RR 503	9.56
MY FAIR LADY AND THE KING AND I. Symphonic impressions.	ST-19	68 RR 502	7.96
AROUND THE WORLD IN 80 DAYS. Music from the original score.	ST-20	68 RR 503	9.56
SYMPHONY FOR TOMMY DORSEY. Famous Dorsey arrangements.	ST-27	68 RR 503	9.56
SOUTH PACIFIC. Symphonic impressions from this famous show.	STB-36	68 RR 608	7.96
PLAIN VANILLA. Dixieland jazz; Larry Foline's Beale St. Band	STB-38	68 RR 608	7.96
PAL JOEY. Bobby Sherwood's Orchestra plays "Joey" tunes.	STB-39	68 RR 608	7.96
SILK STOCKINGS AND PAJAMA GAME. Two famous musicals.	STB-40	68 RR 608	7.96
HENRY KING AND HIS ORCHESTRA. Latin-American dance tunes.	STC-41	68 RR 609	6.36
THE MUSIC MAN. The New World Theatre Orchestra.	STC-37	68 RR 609	6.36

CONCERTAPE

FAVORITE SHOW TUNES, NO. 1. Leonard Sorkin Strings.	22-2	65 RR 673	9.56
FAVORITE SHOW TUNES, NO. 2. Leonard Sorkin Strings.	22-6	65 RR 673	9.56
DANCING AND DREAMING. Jay Norman Quintet. Smooth treatment.	24-2	65 RR 673	9.56
RE-PERCUSSION. Percussive Art Ensemble; impressive sound.	25-1	68 RR 599	9.56
MUSIC OF JOHANN STRAUSS. Musical Arts Sinfonietta.	101-A	65 RR 672	9.56
SOUND IN THE ROUND, VOL. 1. Stereo demonstration tape.	501	65 RR 669	6.36
TEMPO NUEVO. The Concertape Orch. Melodies in the Latin mood.	503	65 RR 669	6.36
SOUND IN THE ROUND, VOL. 11. Highly realistic, everyday sounds.	504	65 RR 669	6.36
MY FAIR LADY. Radiant Velvet Strings; songs from this hit show.	513	65 RR 669	6.36

MERCURY

A MIRACLE IN SOUND. Selected excerpts from Mercury tapes.	DEMS-2	68 RR 567	4.76
STEREO DANCE PARTY. Ralph Marterie's Orchestra. Dance tunes.	MS2-13	68 RR 579	7.16
OFFENBACH: GAITE PARISIENNE. Antal Dorati; Minn. Symp. Orch.	MCS5-15	68 RR 578	9.56
RAVEL: BOLERO/BIZET: L'ARLESIENNE SUITE NO. 2.	MCS5-50	68 RR 578	9.56
LET'S DANCE. David Carroll's Orchestra. Let's Dance, etc.	MDS2-3	68 RR 510	10.36
SONGS FROM GREAT FILMS. The Herman Clebanoff Strings.	MDS2-35	68 RR 510	10.36
PERCUSSION IN HI-FI. David Carroll's Orchestra. "Showy" Sound	MDS2-37	68 RR 510	10.36
GERSHWIN: RHAPSODY IN BLUE. Eugene List; Eastman-Rochester Orchestra.	MWS5-47	68 RR 572	5.56
LET'S HAVE A PIZZA PARTY. The Gaylords on favorite "pops."	MVS2-33	68 RR 568	6.36
MUSIC OF JOHANN STRAUSS. Antal Dorati; Minneapolis Symphony.	MVS5-41	68 RR 570	6.36

OMEGATAPE

THEMES FROM AROUND THE WORLD IN 80 DAYS.	ST-59	68 RR 541	7.16
MUSIC FOR LOVERS ALONE. Bobby Hammack at the Piano.	ST-2015	64 RR 864	9.56
SOUTH PACIFIC. Words & music. Hollywood Radio City Orchestra.	ST-2022	64 RR 864	9.56
HI-LO'S IN HI-FI. With Frank Comstock's Orchestra.	ST-7006	65 RR 611	9.56
TOAST TO TOMMY AND JIMMY DORSEY. Members of original Dorsey orchestra.	ST-7027	65 RR 611	9.56
STEREO HOLIDAY. 12 complete selections from current Omega tapes.	STD-10	68 RR 518	4.76

"Q" TAPE

STEREO DEMONSTRATION TAPE. Excerpts from current "Q" tapes.	Q-X	68 RR 613	2.36
SOUTH PACIFIC. New World Theatre Orchestra.	350	68 RR 614	3.98
DANCE TIME IN STEREO. New World Theatre Orchestra.	351	68 RR 614	3.98
LOVER'S HOLIDAY. Paris Theatre Orchestra; romantic melodies.	352	68 RR 614	3.98
SWAN LAKE BALLET. Nord Deutsches Symphony Orchestra.	353	68 RR 614	3.98
POJKA TIME. Razzberry Reynolds and His All-Star Pojka Band.	354	68 RR 614	3.98
GLENN MILLER WOODS. Hamburg Philharmonia Orchestra.	355	68 RR 614	3.98
GAY 90'S IN STEREO. Gaslight era music. New World Theatre Orchestra.	356	68 RR 614	3.98
SOUZA ON PARADE. Stirring military music. Hamburg Marching Band.	357	68 RR 614	3.98
SIDEWALKS OF NEW YORK. New World Theatre Orchestra.	358	68 RR 614	3.98
DREAMLAND. The Paris Theatre Orchestra; more romantic tunes.	359	68 RR 614	3.98

RCA

LAVALLE IN HI-FI. Paul Lavalle, His Woodwinds and His Band.	CPS-72	68 RR 513	8.76
LET'S DANCE WITH THE THREE SUNS. Popular trio; danceable music.	AFS-101	68 RR 601	5.56
"PREZ." Perez Prado and His Orchestra; Melies with Latin beat.	AFS-105	68 RR 603	5.56
RAINTREE COUNTY. Original sound track recording from the film.	CPS-108	68 RR 513	8.76
STRAIGHT DOWN THE MIDDLE. The Sauter-Finegan Orchestra.	CPS-113	68 RR 513	8.76
THE HOLY CITY. Jerome Hines with Concert Orchestra and Choir.	CPS-114	68 RR 513	8.76
DANCING THROUGH SPACE. Features 10 "name" bands.	CPS-143	68 RR 513	8.76
HAVE A WONDERFUL WEEKEND. Mitchell Ayres and His Orchestra.	CPS-131	68 RR 513	8.76
MUSIC FOR DINING. The Melachro Strings. Diane, Too Young, etc.	CPS-144	68 RR 513	8.76
TCHAIKOVSKY: SLEEPING BEAUTY BALLET. London Symphony Orchestra.	GC5-151	65 RR 608	15.16

URANIA

STEREO DEMONSTRATION TAPE. Mixed selections & 250-cps test note.	UST-D2	68 RR 545	3.98
SOCIETY DANCES AT THE ST. REGIS, VOL. 1. Milt Shaw's Orchestra.	UST-601	68 RR 604	5.56
RAZZAMATAZZ. Phil Moody, honky-tonk piano; Nick Fatool, drums.	UST-901	68 RR 549	7.16
STEREO DANCE DATE. Aime Vereecke and His Orchestra.	UST-904	68 RR 549	7.16
SAINT-SAENS: SYMPHONY NO. 3 IN C MINOR. Franz Eibner. Organ.	UST-1201	68 RR 546	9.56
STRAUSS SPARKLES IN HI-FI, VOL. 1. Vienna Philharmonic Symphony	UST-1202	68 RR 546	9.56
BREAKING THE SOUND BARRIER, VOL. 1. American Symphony Society.	UST-1204	68 RR 546	9.56

WESTMINSTER-SONOTAPE

TCHAIKOVSKY: NUTCRACKER HIGHLIGHTS. London Philharmonic; A. Rodzinski.	SWB-7001	68 RR 520	5.56
RAVEL: BOLERO. Herman Scherchen conducting Vienna St. Op. Orchestra.	SWB-7006	68 RR 520	5.56
VERDI: AIDA (TRIUMPHAL MARCH AND BALLET MUSIC). Vienna Op. Orchestra.	SWB-7011	68 RR 520	5.56
ROSSINI: WILLIAM TELL OVERTURE. Vienna State Opera Orchestra.	SWB-7042	68 RR 520	5.56
TABU. Ralph Font and His Orchestra. Latin-American music.	SWB-7043	68 RR 520	5.56
LATIN-AMERICAN ADVENTURE. Ferrante and Teicher piano team.	SWB-8005	64 RR 880	9.56
BELLS OF ST. MARY'S. Carillon and organ; sacred music.	SWB-8011	64 RR 880	9.56
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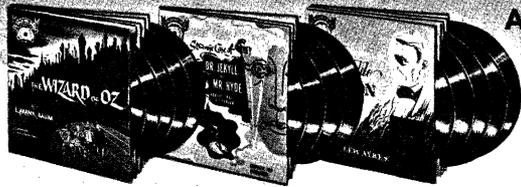
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Enter the thrilling world of great literature with Audio Book records—an outstanding selection of 16 $\frac{2}{3}$ -rpm recordings, including many especially for children. Each "book" is complete and unabridged, with readings performed by outstanding artists. All are on 7" discs with a 1 $\frac{1}{2}$ " center hole, and each has up to one full hour of playing time. They require the use of a conventional microgroove stylus, and can be played on any 16 $\frac{2}{3}$ -rpm phonograph, or, with the adapter below, on any 33 $\frac{1}{3}$ -rpm unit. Indicate Stock No., Book No. and Title.

Title	Lbs.	Book No.	Stock No.	NET
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STORIES FROM THE NEW TESTAMENT. 26 favorite stories read with charm. (2 records).....	1/2	R-908	68 RR 407	1.96
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TEST RECORDS

COOK 50NAB. 12". Checks the IM distortion in cartridges, amplifiers, speakers. No instruments needed—simply play record and listen. If distortion exceeds 2%, code letter "N" is heard. Under 2%, "A" is heard. 33 $\frac{1}{3}$ and 78 rpm. Wt.-10 oz.
65 R 096. NET.....4.98

CLARKSTAN 102M. 12" (1 side) 33 $\frac{1}{3}$ -rpm. Use with oscilloscope for checking 33 $\frac{1}{3}$ -rpm equipment. Sweeps 70 to 10,000 cps \pm 1 db, 20 times per second. Marker pulses at 1, 3, 5, 7 and 10 kc. Curve is modified NARTB. Shpg. wt., 10 oz.
69 R 231. NET.....6.47

TEST TAPES

STEREOPHONY T50-S. Permits setting amplifiers for proper stereo balance. Complete with diagrams. 7 $\frac{1}{2}$ ips, inline. 12 oz.
68 RR 506. NET.....1.98

LYVINGSTON LX-1E. For stereo (offset and inline), and dual and full-track monaural machines. Helps check speed, flutter, response, alignment, etc. 7 $\frac{1}{2}$ ips. 12 oz.
68 RR 598. NET.....7.96

WESTMINSTER 5WB-AL-101. Tests your inline stereo tape machine completely. Includes musical selections. Unusually comprehensive instructions. 7 $\frac{1}{2}$ ips. Wt., 12 oz.
64 RR 886. NET.....9.56

AUDIO BOOK SPEED ADAPTER

MODEL A-100. Permits playing any of the 16 $\frac{2}{3}$ -rpm Audio Book records on a conventional 33 $\frac{1}{3}$ -rpm turntable or record changer. No mechanical changes to the record player are necessary—just place the speed-reducing adapter on the table.

The adapter consists of two discs connected through a speed reducer. Unit fits over the record spindle, with the lower disc resting on the turntable. When the bottom disc rotates at turntable speed, the top disc, which holds the record, rotates at 16 $\frac{2}{3}$ rpm. Arm prevents rotation of speed reducing coupling. Shpg. wt., 1 lb.
68 R 400. NET.....1.40

General Information

ON TAPE RECORDING EQUIPMENT

MICRO PHONES



Nearly all tape decks are supplied less microphones, while most complete recorders include them. All of the Pentron recorders on the facing page and the Model 555-A Stereorecorder on page 105 include microphones, while the other recorders and decks listed on the following pages are supplied less mikes.

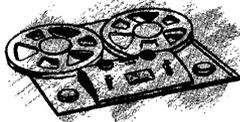
For fine-quality home recording with your tape recorder or recording system, the use of a dynamic microphone in the \$40 to \$60 price range is recommended. There are many different factors that must be taken into account in choosing a mike—see page 314 for helpful hints on selecting the proper one.

DECKS AND RECORDERS



A tape deck is a basic tape transporting or tape handling device. It consists of a recording and playback head, and sometimes an erase head, and must be used with associated circuitry. A tape recorder is a complete unit consisting of a tape deck and all necessary recording circuits. Some tape recorders also include complete playback circuitry and built-in speakers, while others must be used along with separate playback amplifiers and speakers.

THE TAPE DECK IN YOUR HI-FI SYSTEM



PLAYBACK. If your hi-fi amplifier has a "Tape Head" input, you will not need a preamplifier for playback with a tape deck. If, however, your amplifier has a "Tape" input (one not specifically identified as a tape head input) you must have a preamp equalized for a tape head to use with the deck.

RECORD. In order to use a deck for recording, you must have a recording preamplifier. The preamp in your hi-fi system is not suitable, since it does not include a bias oscillator, which is necessary in recording.

STEREOPHONIC RECORDING



For stereo recording, use one of the complete stereo recorders listed on the facing or following pages or choose a deck and two record/playback preamplifiers.

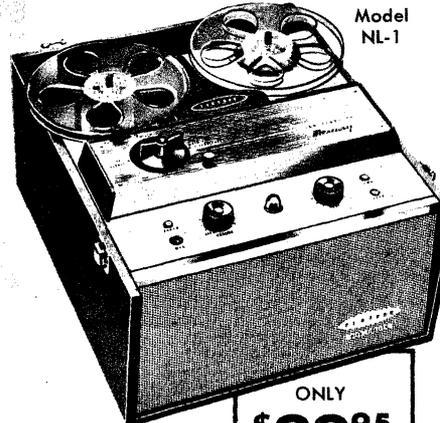
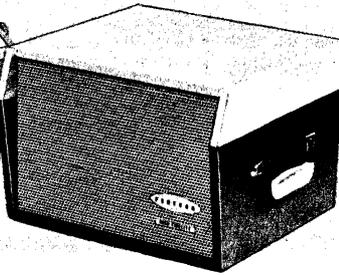
If you are planning to purchase a complete recorder, be sure that the description of it specifically states that the unit will make stereo recordings. A unit designated monaural-rec/stereo-playback will not work. The Ampex 601-2, Concertone 63K, Pentron NL-4, Stereorecorder 555A and Mag-necordette will record stereophonically.



Model NL1-SX

**NEW! STEREO SYSTEM
SAVE \$20.00**

Model PS-5



Model NL-1

New "Mercury" Stereo System Combination Offer

List, \$254.95

NET \$159⁹⁰

Only \$15.99 Down

- Save \$20.00 on this Stereo Bonus Package
- Everything You Need to Play Stereo Tapes
- Make "Live" and "Off-The-Air" Recordings
- Comes Complete with Mike and Accessories

List, \$159.95

ONLY \$99⁹⁵

\$10.00 Down

A complete tape system for stereo or monaural playback and monaural recording—at \$20.00 combination savings. Consists of NL1-SX "Mercury" stereo recorder and PS-5 speaker-amplifier unit. Features provisions for playback of both 2 and 4-track stereo tapes and recording of 2-track monaural tapes. Has built-in 4-watt amplifier, 6" speaker, preamp for second stereo channel, precision 4-pole motor, automatic braking, and neon level indicator.

Response: 40-11,000 cps at 7½ ips; 40-7000 cps at 3¾ ips. *Signal-to-Noise Ratio:* 45 db. *Inputs:* Mike-Mag Phono, Tuner-Aux. *Outputs:* second stereo channel, external amplifier, external speaker. 14x17x11".

The PS-5 matching speaker-amplifier is used in playing the second stereo channel of the NL1-SX recorder. Has two-way speaker system (6" woofer, 4" tweeter, LC crossover) and 5-watt amplifier. 9¼x12¼x12¼".

Complete with mike and reel of tape. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 41 lbs.

92 RU 720-2. Both Units, Only... **159.90**

NL1-SX "MERCURY" RECORDER ONLY. With mike and reel of tape. Shpg. wt., 29 lbs.

91 RU 879. NET... **139.95**

PS-5 SPEAKER-AMPLIFIER ONLY. 12 lbs.

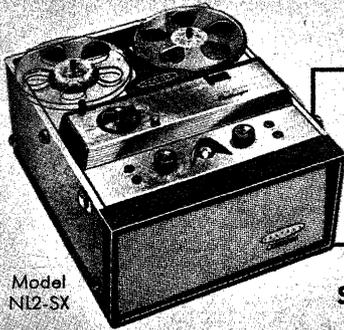
91 RX 884. NET... **39.95**

NL-1 "Mercury" Recorder

Lowest price ever on the popular Pentron NL-1 "Mercury" two-speed portable tape recorder. Operates at 7½" and 3¾" speeds and features automatic braking, plus precision 4-pole motor. Includes 4-watt amplifier and 6" PM speaker. Single control selects record, play, fast forward, or fast rewind operation. *Response:* 40-11,000 cps at 7½ ips. *Inputs* for mike or magnetic phono, tuner or aux. With mike and reel of tape. Size, 14x17x11". For 110-120 v., 60 cycle AC. Shpg. wt., 29 lbs.

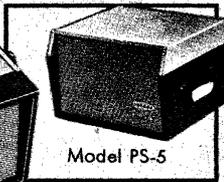
99.95

91 RU 752. ONLY...



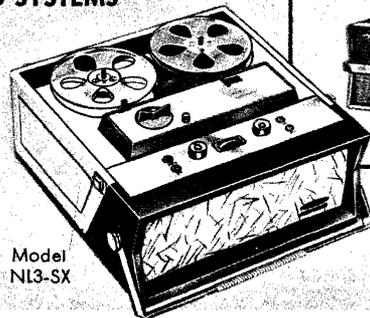
Model NL2-SX

DELUXE STEREO SYSTEMS

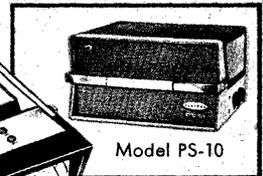


Model PS-5

SAVE \$30.00



Model NL3-SX



Model PS-10

SAVE \$30.00

New "Champion" Stereo System Combination

An outstanding combination for stereophonic listening—priced to save you \$30.00. Consists of the Model NL2-SX "Champion" portable tape recorder and the matching PS-5 speaker-amplifier. In addition to all the high-quality features of the "Mercury" stereo system above, the NL2-SX incorporates a two-way speaker system for extended frequency response; a "magic eye" recording level indicator to assure correct volume during recording; digital-type tape timer to indicate exact footage of tape on take-up reel at all times. Has built-in 5-watt amplifier plus preamp for second stereo channel.

Response: 40-13,000 cps at 7½ ips; 40-7000 cps at 3¾ ips. *Signal-to-Noise Ratio:* 48 db. *Flutter:* under 0.4% at 7½ ips. *Inputs:* Microphone or magnetic cartridge; tuner or aux. *Outputs:* second stereo channel; external amplifier; external speaker. 10¾x14x16¾".

In portable cabinet; with mike and reel of tape. For 110-120 v., 60 cycle AC. Shpg. wt., 33 lbs.

92 RU 721-2. List, \$314.95. ONLY... **199.90**

91 RU 880. NL2-SX "Champion" Stereo Recorder Only. With microphone and reel of tape. Shpg. wt., 31 lbs. **189.95**

91 RU 754. NL-2. As above; monaural only. 31 lbs. **159.95**

91 RX 884. PS-5 Speaker-Amplifier Only, 12 lbs. **39.95**

New "Aristocrat" Stereo System Combination

Pentron's finest portable stereo combination—priced to save you \$30.00. System consists of the NL3-SX "Aristocrat" recorder and PS-10 speaker-amplifier unit. The NL3-SX offers all the advantages of NL1-SX and NL2-SX, plus these deluxe features: powerful hi-fi 10-watt amplifier with push-pull output; highly accurate professional-type VU meter for gauging record level; four top-quality hi-fi speakers (2—6" woofers, 6" mid-range, exponential tweeter, double LC crossovers at 600 cps and 2000 cps). *Response:* 40-15,000 cps at 7½ ips; 40-7,500 cps at 3¾ ips. *Signal-to-Noise Ratio:* 50 db. 17½x17¾x11". In handsome portable case with heavy-duty all-metal handle.

The PS-10 speaker-amplifier matches the attractive styling of the NL3-SX recorder. Offers superb hi-fi sound from its two-way speaker system (6" woofer, 6" tweeter, LC crossover) and deluxe 10-watt push-pull high-fidelity amplifier. 9¾x17¼x14½".

Includes mike and reel of tape. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 63 lbs.

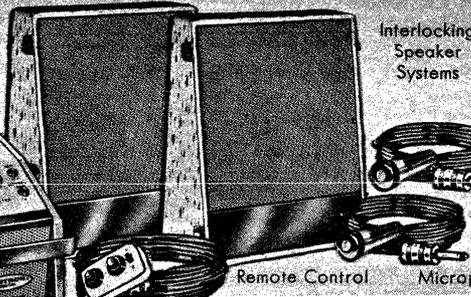
92 RU 722-2. List, \$399.90. ONLY... **269.90**

91 RU 881. NL3-SX "Aristocrat" Stereo Recorder Only. With microphone and reel of tape. Shpg. wt., 38 lbs. **229.95**

91 RU 756. NL-3. As above; monaural only. 38 lbs. **199.95**

91 RU 885. PS-10 Speaker-Amplifier Only. 25 lbs. **69.95**

Model NL-4
Recorder



Interlocking
Speaker
Systems

Remote Control

Micraphones

**A COMPLETE PORTABLE
STEREO/MONAURAL
TAPE SYSTEM**

- Make and Play Excitingly Real Stereophonic Recordings
- Play Conventional and 4-Track Stereo Tapes
- Complete Erase Facilities
- Each Speaker System is in Half of a Split Case. Halves Lock Together for Portability

FEATURING TWO 10-WATT AMPLIFIER SECTIONS

NET
\$349⁹⁵

\$35.00 Down

**PLAYS AND RECORDS STEREO
AND MONAURAL TAPES—PLAYS
NEW 4-TRACK RECORDINGS**

Remarkably versatile, the "Emperor II" tape recorder offers obsolescence-proof tape recording and playback operation. It plays and records dual-track monaural tape—it plays and records 2-track stereo tape; and it plays the latest 4-track stereo tapes. Choosing the desired mode of operation is simple—a convenient indexing knob selects the correct configuration of tape heads.

NL-4 "EMPEROR II." Deluxe, dual-speed, inline tape recorder—records, plays and erases both 2-track monaural and 2 and 4-track stereo tapes. Incorporates two 10-watt amplifiers and two 4x6" oval speakers that may be used for monitoring, or eliminating the stereo "center hole." Features include micro-switch end-of-reel shut-off, automatic idler disengagement, instant automatic braking, digital index counter and sound cut-off in fast positions. Heavy-duty, dynamically balanced motor employs 4-pole, shaded-pole design. Has two "Magic Eye" recording level indicators and separate volume and tone controls. Response: 40-15,000 cps @ 7½ ips, 40-10,000 cps @ 3¾ ips. Signal-to-Noise Ratio: 50 db. Flutter: under 0.3% @ 7½ ips. Equalization: NARTB playback @ 7½ ips. 2 input jacks with switching accommodate

stereo or monaural magnetic phono, high-impedance mike and tuner inputs. Has four output jacks for two external amplifiers and two speakers.

10¾x17¼x17¾" overall. For 110-120 v. 60-cycle AC. With two custom-quality crystal microphones; less external speakers (below). Shpg. wt., 45 lbs.

91 RU 882. List, \$450.00. NET, 349.95

ES-2 SPEAKER SET. Two 3-way speaker systems for use with NL-4, at left. Each includes 6" woofer, 6" midrange, 4" tweeter and 2 LC crossovers. Systems lock together, face-to-face, forming an easy-to-carry, completely enclosed case. Match NL-4. With 2—10' cables. Size (locked): 16x14x9". Shpg. wt., 20 lbs.

91 RU 883. List, \$75.00. NET, 59.95

RC-6 REMOTE PLAYBACK CONTROL. Has balancing control, channel-reverse switch, master volume control. 15' cable. 1 lb.

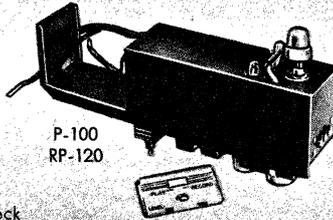
91 R 886. List, \$15.00. NET, 9.95

Bell

**STEREO AND MONAURAL
TAPE DECKS AND PREAMPS**



Tape Deck



P-100
RP-120



T-218

BELL TAPE DECKS. High-quality tape decks featuring DC dynamic braking, three 4-pole motors, automatic tape shut-off, and operation without belts, pulleys, or clutches. Excellent overall specifications in both stereo and monaural models. All decks accept specially designed Bell P-100 or RP-120 preamplifiers (right), which attach to deck without altering any critical dimensions; ideal for custom installation, especially where record or stereo facilities are to be added later. For playback, hi-fi amplifiers are also required. Positive braking prevents even the thinnest tape from breaking when starting and stopping mechanism. Accepts up to 7" reels.

Specifications: Frequency Response: 40 to 10,000 cps ±2 db; 30 to 15,000 cps ±4 db (record and playback). Signal-to-Noise Ratio: Better than 50 db. Flutter: Less than ¼ of 1% at 7½ ips. Overall Distortion: Less than 1% at maximum indicated recording level. Controls: Speed, Play, Rewind, Fast Forward, Stop; Off-On Switch. Stereo decks play inline tapes only. Speeds: 7½ and 3¾ ips.

Tape lifter removes tape from heads during stop and fast speeds. Footage counter operates from take-up reel, and does not introduce wow and flutter. Charcoal gray base plate with satin aluminum and embossed gold anodized trim. Size 15¼x13¼"; requires 5¼" below, 1½" above mounting surface. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 21 lbs.

MODEL T-218 RECORDER. Record stereo or monaural tapes with this hi-fi recorder—add two hi-fi amplifiers and two speakers for stereo playback. Includes: T-213 Tape Deck; 2—RP-120 Record-Playback Preamps; and Carrying Case. Less mike. 8¾x17¼x16½". For 110-120 v., 60 cycle AC. Wt., 54 lbs.

91 RU 873. Only \$30.38 Down. NET, 303.75

MODEL T-216. As above, but for monaural recording and stereo or monaural playback. Includes T-212 Tape Deck; 1—RP-120 and 1—P-100 Preamp; and Carrying Case. Shpg. wt., 54 lbs.

91 RU 874. Only \$25.48 Down. NET, 254.75

MODEL P-100 PLAYBACK PREAMP. Provides NARTB tape equalization and high-gain amplification, with less than 0.1% distortion at 1-volt output. 53 db gain at 1000 cycles; output from maximum-level tape recording, 2.3 volts, when used with Bell tape decks. For operation from 110-120 v., 60 cycles AC. Shpg. wt., 5¼ lbs.

91 RX 768. Only \$3.92 Down. NET, 39.15

MODEL RP-120 RECORD-PLAYBACK PREAMP. NARTB record and playback equalization; attaches to Bell decks listed at left. 2 inputs: mike and high level (tuner, etc.); require 0.001 and 0.3 volts, respectively, for full recording level. Linear cathode-ray tube indicator for accurate monitoring of recording level. Blue pilot light indicates "playback"; red light for "record". For 110-120 v., 60 cycles AC. Shpg. wt., 9¼ lbs.

91 RX 769. Only \$5.88 Down. NET, 58.75

CARRYING CASE. Professional-style carrying case for Bell tape decks and preamps. Covered with charcoal ray pyroxylin; contrasting trim. 8¾x17¼x16½". Shpg. wt., 13 lbs.

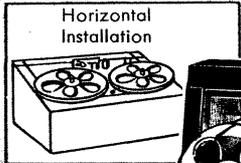
91 RU 875. NET, 29.35

Stock No.	Model	Operation	10% Down	NET
91 RU 869	T-210	Monaural record, erase and playback	10.78	107.75
91 RU 870	T-211	Stereo playback	11.76	117.55
91 RU 871	T-212	Mon. record-playback; stereo playback	12.74	127.35
91 RU 872	T-213	Mon. and stereo record-playback	14.70	146.95

Depend on Allied for the Latest in High-Fidelity Recording Equipment

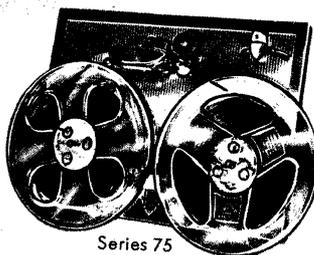
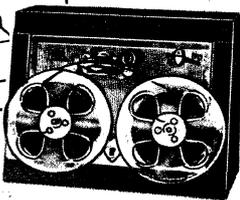
MONAURAL AND STEREO TAPE DECKS AND PREAMPS

VIKING

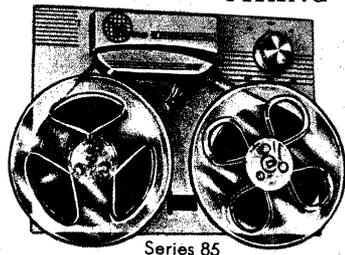


Horizontal Installation

Console with Series 75 Installed Vertically



Series 75



Series 85

NEW SERIES 75 TAPE DECKS

Carefully engineered transports fitted with precision record, playback and erase heads. Feature "flutter-filter" belt drive. Ideal for addition of tape playback and/or recording facilities to hi-fi systems. Require 12 1/2" x 8 3/4" area; 1 1/2" above, 3 1/2" below mtg. board.

SPECIFICATIONS: *Frequency Response:* ±3 db, 40-14,000 cps. *Signal-to-Noise Ratio:* 55 db or better. *Flutter:* 0.2% average. *Tape Speed:* 7 1/2 ips; convertible to 3 3/4 ips from underside of mounting plate. *Speed change knob* on front of deck. *Maximum Reel Size:* 7". *Playback Head Output:* 2.5 millivolts. *Gap Width:* 0.00015". For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 11 lbs.

- MODEL FF75LP. Monaural playback k. **71.50**
- 91 RX 889. Only \$7.15 Down. NET
- MODEL FF75ES. Stereo (inline) erase-record and playback. Features tape lifter and pressure pads. **113.00**
- 91 RU 861. Only \$11.30 Down. NET
- MODEL FF75R-LP. Monaural erase-record. Features tape lifter and pressure pads. **78.50**
- 91 RX 862. Only \$7.85 Down. NET

NEW SERIES 85 TAPE DECKS

Expertly designed, deluxe transports. Feature: "flutter-filter" belt drive; two motors for fast forward and rewind; concentric control (inner ring selects fast forward or fast rewind—outer ring selects forward, stop or cue); footage counter; and tape lifters and pressure pads. Require 13x9 1/2" area; 1 1/2" above, 3 1/2" below mtg. board.

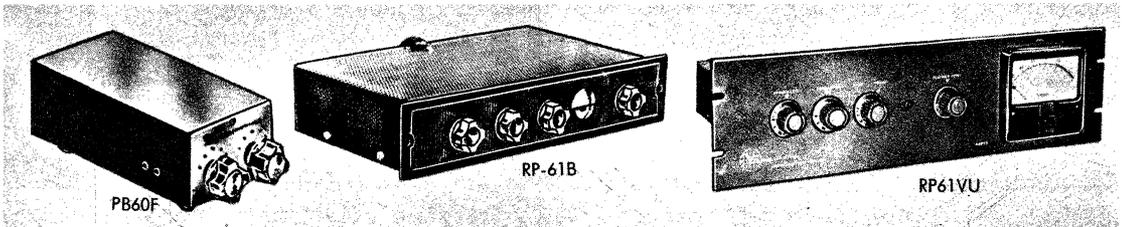
SPECIFICATIONS: *Frequency Response:* ±3 db, 30-14,000 cps. *Signal-to-Noise:* 50 db. *Flutter:* 0.2% average. *Tape Speed:* 7 1/2 ips or 3 3/4 ips; controlled by front panel knob. *Maximum Reel Size:* 7". For 110-120 volts, 60 cycle AC. Shpg. wt., 12 lbs.

- MODEL 85SR. Monaural erase-record, stereo playback. Has monaural dual-track erase and record-playback heads plus inline dual-track stereo heads for playback of stereo tapes. **143.00**
- 91 RU 863. Only \$14.30 Down. NET
- MODEL 85ESQ. Monaural-stereo erase-record-playback. Has inline record-playback heads and independent dual-track erase heads; inline four-track heads are included for playback of four-track, 3 3/4 ips tapes. Inline head provides 45 db interchannel cross-talk rejection. Requires two RP62's (below) for stereo recording. **167.00**
- 91 RU 864. Only \$16.70 Down. NET

CONSOLETTES AND ENCLOSURES FOR SERIES 75 AND 85

- 91 RX 865. 400 Consolette. Metal base for any Viking Series 75 deck. Neutral tan finish. Shpg. wt. 6 1/2 lbs. NET **14.00**
- 91 RX 866. 401 Enclosure. Amplifier enclosure to match above. Accommodates one RP-61B. Tan finish. Shpg. wt., 4 3/4 lbs. NET **7.50**

- 99 RX 494. D396 Portable Case. For any Viking 75 series deck, 1 or 2 PB60F's or 1 RP-61B preamp. Pre-drilled. Wt., 13 lbs. NET **24.50**
- 91 RX 867. D397 Portable Case. For any Viking 75 series deck, 2 RP-61B's, or 1 RP-61B and 2 PB60F preamps. Wt., 14 lbs. NET **34.00**



HOW TO SELECT PROPER COMPONENTS

- FOR MONAURAL PLAYBACK ONLY.** If your hi-fi amplifier has a tape head input, you need either an FF75LP or 85SR tape deck to add tape to your system. Otherwise, add a PB60 preamplifier also.
- FOR MONAURAL RECORDING AND PLAYBACK.** Use either an FF75-LP or 85SR tape deck and one RP-61B or RP62 record-playback preamplifier with your present high-fidelity system.
- FOR STEREO PLAYBACK ONLY.** If your high-fidelity amplifier already has a tape head input, use the FF75ES or 85SR tape deck and a PB60F preamp; of course, two amplifiers and speaker systems are necessary for stereo. If you own a stereo preamp already, you need add only the FF75ES or 85SR tape deck. If your high-fidelity system provides no tape preamplification, use the FF75ES or 85SR tape deck and two PB60F preamps. These components will also allow you to play monaural tapes.
- FOR STEREO RECORDING AND PLAYBACK.** Use the FF75ES or 85SR tape deck and two RP-61B or RP62 preamps. These components also record and play back monaurally. When making stereo recordings, use jumper cord supplied to synchronize preamplifiers.

NOTE ON STEREO SYSTEMS. All stereo systems require two complete and independent playback channels: dual preamplifiers equalized for tape playback, dual basic amplifiers and dual speaker systems. All of the new stereo amplifiers listed in this catalog include dual preamps and two power amplifiers on a single chassis.

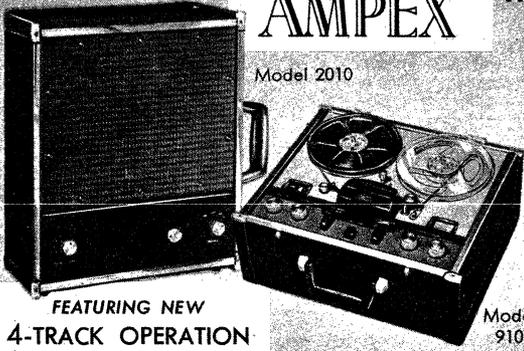
IMPORTANT: Allied can supply all Viking tape recording equipment—tape decks, preamplifiers, consolettes, enclosures, accessories, etc. If you do not find a particular Viking component listed, consult our Technical Service Department for information as to specifications and price. Be sure to list item by model and title.

PREAMPS AND ACCESSORIES

- MODEL PB60F PLAYBACK PREAMP. Two PB60F's and the FF75ES or 85SR deck are used in stereo playback system. Power switch on volume control; AC outlet for tape deck; and hum balancing adjustment. Response: 30-14,000 cps. ±2 db. Variable equalization control. 6 5/8 x 3 3/4 x 2 1/4". For 110-120 v., 60 cycle AC. Wt., 7 lbs. **99 R 182. Only \$2.95 Down. NET 29.50**
- MODEL RP-61B RECORD-PLAYBACK PREAMP. Playback characteristics are the same as those of PB60F, above; also provides fixed equalization during recording, erase bias oscillator and level monitoring indicator. Distortion at full recording level is less than 2%. 12 1/4 x 2 1/4 x 6 3/4". For 110-120 v., 60 cycles AC. Wt., 7 1/2 lbs. **91 R 733. Only \$7.75 Down. NET 77.50**
- MODEL RP62 RECORD-PLAYBACK PREAMP. As above, but has brushed chrome panel to match Series 85 decks. Wt., 7 1/2 lbs. **91 R 891. Only \$7.75 Down. NET 77.50**
- MODEL RP61VU RECORD-PLAYBACK PREAMP. Same as RP-61B, above, but with VU meter instead of electron ray. Output, 600 ohms. Matches either Viking dual-track and stereo heads or broadcast type full-track erase and record tracks. With 19" relay rack mounting panel. For 110-120 v., 60 cycle AC. 7 1/2 lbs. **91 RU 868. Only \$11.90 Down. NET 119.00**
- D381A REEL RETAINERS. Molded rubber reel retainers for securing reels when deck is used in vertical position. Wt., 5 oz. **92 R 913. NET PER PAIR 1.00**
- D305 DECK MOUNTING FLANGE. For custom mounting any Series 75 or Series 85 deck. Mounts flush with flange. Neutral tan. Size: 10 3/4 x 1 1/4". Shpg. wt., 8 oz. **91 RX 887. NET 3.00**

AMPEX

HIGH-FIDELITY TAPE RECORDERS



Model 2010

Model 910

FEATURING NEW
4-TRACK OPERATION



Model 620P

Model 601

PROFESSIONAL
"600" SERIES

MODEL 910 UNIVERSAL "A" STEREO RECORDER

NET

\$495.00

\$49.50 DOWN

- Reproduces 2 and 4-Track Stereo
- Records and Plays Back Monaural
- Automatic Shut-Off At End of Tape

Stereo playback and monaural record tape deck-preamp offering latest engineering advancements in the tape recording field, plus renowned AmpeX features and high-quality workmanship. Exceptionally versatile—has provisions for advanced-design 4-channel or 2-channel stereo playback plus monaural record and playback. In 4-channel position, two tracks are played. When end of reel is reached, automatic shut-off functions. No need to rewind tape—simply turn reel over to play other two tracks. Each recorder is housed in an attractive two-tone gray portable case. Accurate footage counter and VU meter.

SPECIFICATIONS: *Tape Head:* plays 4-track stereo tapes in "UP" position; 2-track in "DOWN." *Tape Speeds:* 7½ and 3¾ ips. *Frequency Response:* 30-15,000 cps at 7½ ips. *Signal-to-Noise Ratio:* 50 db. *Reel Capacity:* 7". *2 Inputs:* high-impedance microphone; radio, TV or phono. *Output:* cathode follower. *Controls:* Selector (Off, Monitor, Single, Stereo); Listening Volume; Fast Forward-Rewind; Record; Stop; Motor Switch; Recording Volume (Mic); Recording Volume (Tuner-Phono). Simultaneous record-monitor feature; push-button speed change; illuminated footage counter; automatic stop at end of reel. Input channels may be mixed with separate volume controls, for narration during recording. Less mike. 9x17½x15". For 110-120 v., 60 cycle AC. 38 lbs.

91 RU 858. Only \$49.50 Down. NET. **495.00**

MODEL 2010 MATCHING AMPLIFIER-SPEAKER. Ingeniously engineered single-case unit, providing substantially flat speaker output, 65-10,000 cps. Styling of case matches recorder listed above; forms an ideal portable high-fidelity tape system when used with above, or when two are used with above for stereo. *Amplifier Response:* ±0.5 db, 20-20,000 cps. *Noise Level:* -70 db. *Controls:* Volume, Tone. *Rated Output:* 10 watts. *Inputs:* Tape, Tuner, Phono, TV. 8" PM speaker of special AmpeX design. Auxiliary AC outlet. 9x17½x15". For 110-120 v., 60 cycle AC. Shpg. wt., 35 lbs.

91 RU 859. Only \$19.95 Down. NET. **199.50**

MODEL 601 BROADCAST QUALITY RECORDERS

NET

\$595.00

\$59.50 DOWN

- Superb Fidelity—Precise Timing
- Direct Reading, Illuminated Meter
- Eliminates Accidental Erasure

Combine compact design for practical portability with AmpeX manufacturing precision. Features include provision for low-impedance input and output, faster acceleration to playing speed, illuminating record safety button and case of rugged Samsonite. Separate record and playback amplifiers; direct-reading illuminated VU meter; simultaneous recording and playback.

SPECIFICATIONS: *Speed:* 7½ ips. *Reel Size:* 7" maximum. *Response:* 30-15,000 cps; *Signal-to-Noise Ratio:* Over 55 db for full-track; 50 db for half-track. *Flutter and Wow:* 0.17%. *Starting Time:* less than 0.2 second. *Fast Forward and Rewind:* 90 seconds for full 7" reel. *Power Drain:* 61 watts. Less mike. Size, 8x13¼x16½". For 110-120 volts, 60 cycle AC. Shpg. wt., 35 lbs.

95 RZ 978. Dual-Track. NET. **595.00**

95 RZ 979. Full-Track. NET. **595.00**

95 RZ 982. Dual-Track. For custom mounting. Size: 5x12½x15½".

Less case. Shpg. wt., 31 lbs. NET. **545.00**

95 RZ 983. Full-Track. For custom mounting. Size: 5x12½x15½".

Less case. Shpg. wt., 31 lbs. NET. **545.00**

MODEL 601-2 STEREOPHONIC RECORDER. As above, but with stereo heads (in-line) dual preamps and meters. 8x13x24½". With case. For 110-120 volts, 60 cycle AC. Shpg. wt., 54 lbs.

91 RZ 775. Only \$99.50 Down. NET. **995.00**

LOW-IMPEDANCE INPUT TRANSFORMER. Plug-in type for use with Series "600". Shpg. wt., ½ lb.

95 R 981. NET. **22.95**

MODEL 620P AMPLIFIER-SPEAKER. 10-watt amplifier and special 8" speaker. Two may be used with 601-2 for stereo. Speaker response 65-10,000 cps. Amplifier response, ±0.5 db. 20-20,000 cps. 13x16x8". For 110-120 v., 60 cycle AC. Shpg. wt., 28 lbs.

95 RU 980. Only \$18.95 Down. NET. **189.50**

MAGNECORDETTE 101 Stereo Recorder

\$449.95

\$45.00 DOWN

- Provides Professional-Quality Stereo Fidelity
- Dual Meters for Stereo Recording Balance
- Two Amplifiers Mounted on a Single Chassis

Moderately-priced, portable unit for playing commercially-recorded tapes or for making and playing your own stereo or monaural tapes. Requires two amplifiers and speakers for stereo playback. Delivers professional-quality stereo reproduction. Features include: dual record-playback preamplifiers mounted on one chassis; separate gain controls for each channel plus one master control for record and playback. Monaural-stereo switch and recording indicator located on transport panel. Perfectly matched with speaker-amplifiers, below.

SPECIFICATIONS: *Playback-Record Function:* Stacked stereo; half-track monaural. *Tape Speeds:* 7½ and 3¾ ips. *Frequency Response:* ±2 db, 50-12,000 cps at 7½ ips; ±2 db, 50-6000 cps at 3¾ ips. *Reel Size:* 5 and/or 7". *2 Inputs:* accommodates mike, tuner, TV or phono. *Preamp Output:* cathode follower, each preamp. Two meters monitor channels. Complete with handsome gray and white case. Less speaker-amplifiers and mikes, 15¼x17¼x11½". For 110-120 v., 60 cycle AC. Shpg. wt., 72 lbs.

91 RZ 856. \$45.00 Down. NET. **449.95**

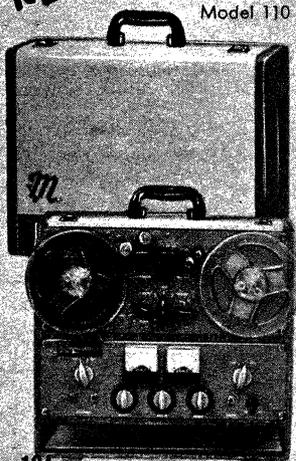
MAGNECORDETTE MODEL 110 SPEAKER-AMPLIFIER

Combination speaker-amplifier in a portable carrying case. Consists of an 8" full-range speaker mounted in a highly attractive case designed to match Model 101 (listed above) in appearance. Ideally suited for monaural playback—two required for stereo reproduction. Delivers remarkably clear response across the entire audio spectrum.

SPECIFICATIONS: *Frequency Response:* 20-20,000 cps. *Controls:* Volume, Bass and Treble. *Signal-to-Noise Level:* 60 db. Handsomely styled, durably constructed case is charcoal gray and oyster white. Luggage-type handle permits easy portability. 15¼x17¼x11½". Shpg. wt., 30 lbs.

91 RU 857. \$13.00 Down. NET. **129.95**

NEW!



Model 110

Model 101

HIGH-FIDELITY STEREPHONIC TAPE RECORDING EQUIPMENT



Model DK-555-A



Precision Construction



Model 555-A

NEW DK-555-A STERECORDER

Dual-speed stereo recording and playback unit for custom mounting. Has same rugged construction and outstanding features as Model 555-A described at right, but less portable case, dynamic microphones and monitor speaker. Handy, built-in grips on sides. 8 $\frac{3}{4}$ x15 $\frac{1}{2}$ x13 $\frac{1}{4}$ ". For 110-120 v., 60 cycle AC. Shpg. wt., 40 lbs.

91 RU 790. \$52.50 Down. NET. 525.00

MODEL CCS-555-A. Deluxe, precision-made, portable stereo recording and playback system. Consists of the Model 555-A described at right plus 2 Lansing D-123 12" extended range speakers, individually mounted in 2 Lansing-designed enclosures. Handsome enclosures combine to form a matching portable case—perfect companion-piece for the tape transport. Size of speaker case: 11 $\frac{1}{2}$ x19 $\frac{1}{2}$ x15 $\frac{1}{4}$ ". For 110-120 volts, 60 cycle AC. Shpg. wt., 72 lbs.

91 RU 789-2. \$77.50 Down. NET 775.00

NEW MODEL 555-A STERECORDER

NET
\$595.00

\$59.50 DOWN

- Has 2 Recording Preamps—2 Playback Amplifiers
- Separate Volume and Tone Controls for Each Channel
- Selector for Stereo or Monaural Record-Playback.

Enjoy the fascination and excitement of recording and listening to your own stereophonic tapes with this precision-made, portable stereo recording and playback unit. The Stereorecorder includes everything necessary for stereo recording. Selector switch allows instant change to either stereo record-playback or monaural record-playback. Simply attach two high-fidelity speakers and hear breath-taking stereo sound from your own recordings or from the hundreds of recorded tapes now available. The entire record-playback unit is mounted in an attractive Tolex vinyl, luggage-type carrying case. Parts precision-made in Japan; assembled and tested in U.S.A.

SPECIFICATIONS: *Frequency Response:* ± 2 db, 30-16,000 cps at 7 $\frac{1}{2}$ ips; ± 2 db, 50-12,000 cps at 3 $\frac{3}{4}$ ips. Takes 7" reel. *Inputs:* 2 mike, 2 radio. *Output Impedances (Dual):* 4, 8, 16 ohms for speakers; also low-impedance cathode-follower for external amplifiers. Rated 8 watts (combined channels). Provisions for stereo or monaural off-the-air recordings. Instant stop lever; 2 VU meters; monitor speaker; recording indicator pilot light; safety lock recording button; etc. Case has room for tapes and mikes. Complete with 2 dynamic microphones. 10 $\frac{1}{2}$ x19x15 $\frac{1}{8}$ ". Less speakers. For 110-120 volts, 60 cycle AC. Shpg. wt., 48 lbs.

91 RU 788. NET. 595.00

AMERICAN CONCERTONE

NEW Stereo and Monaural Tape Equipment

MODEL 63K RECORDER

NET
\$755.00

\$75.50 DOWN

- Records and Plays Back Both Stereo and Monaural
- Dual-Speed—7 $\frac{1}{2}$ and 15 ips—Push-Button Controls
- Handles Up To 10 $\frac{1}{2}$ " Reels—Front Panel Torque Switch

Expertly constructed, dual-speed stereo tape recorder in handsome carrying case. Records and plays back both stereo and monaural tapes; handles up to 10 $\frac{1}{2}$ " reels. Features include: push-button control; torque control switch; VU meter; two high-speed take-up motors; safety erase interlock; rugged die-cast front mounting; direct hysteresis synchronous drive; dual record amplifier and dual playback preamplifiers. *Frequency Response:* ± 2 db, 50-12,000 cps at 7 $\frac{1}{2}$ ips; ± 2 db, 50-15,000 cps at 15 ips. *Signal-to-Noise Ratio:* 50 db at 7 $\frac{1}{2}$ ips; 50 db at 15 ips. *Flutter and Wow:* 0.15% RMS at 7 $\frac{1}{2}$ ips; 0.25% RMS at 15 ips. *Inputs:* high-impedance microphone; high-impedance line. *Output:* cathode follower. Phone jack permits monitoring. Less speakers (see Model 260, below) and mikes (see page 315 for guide to selection). 6x14 $\frac{1}{2}$ x16 $\frac{1}{4}$ ". For operation from 110-120 v., 60 cycle AC. Shpg. wt., 45 lbs.

91 RU 794. NET. 755.00

MODEL 62K RECORDER

Similar to Model 63K described above, but for monaural record-stereo playback. Consists of tape transport with single record amplifier and dual playback preamplifiers. With case. 6x14 $\frac{1}{2}$ x16 $\frac{1}{4}$ ". For 110-120 v., 60 cycle AC. Shpg. wt., 45 lbs.

91 RU 793. \$65.50 Down. NET. 655.00

MODEL 61K RECORDER

Similar to Model 63K described above, but for monaural record-monaural playback. Consists of tape transport with one record and one playback preamplifier installed. With case. 6x14 $\frac{1}{2}$ x16 $\frac{1}{4}$ ". For 110-120 v., 60 cycle AC. Shpg. wt., 45 lbs.

91 RU 792. \$55.50 Down. NET. 555.00

TAPE DECK, SPEAKER-AMPLIFIER AND RECORDING ACCESSORIES

MODEL 68 TAPE DECK. Professional-type dual-speed tape deck for custom mounting. Plays stereo and monaural tapes at 7 $\frac{1}{2}$ or 3 $\frac{3}{4}$ ips. Features push-button controls, automatic cut-off switch, torque-control switch, output level control, etc. Handles up to 10 $\frac{1}{2}$ " reels. *Frequency Response:* ± 2 db, 50-12,000 cps at 7 $\frac{1}{2}$ ips; ± 2 db, 50-7500 cps at 3 $\frac{3}{4}$ ips. 6x16 $\frac{3}{8}$ x14 $\frac{1}{8}$ ". With rack-mount adapter. Less mike. For 110-120 volts, 60 cycle AC. Shpg. wt., 38 lbs.

91 RU 795. \$44.50 Down. NET. 445.00

MODEL 4B. Remote control with 12' cable. For use with Series 60. Wt. 5 lbs.

91 R 797. \$5.25 Down. NET. 52.50

MODEL 260. Speaker and 17-watt amplifier for Series 60 recorders. In case. 6x14 $\frac{1}{2}$ x16 $\frac{1}{4}$ ". Shpg. wt., 18 lbs.

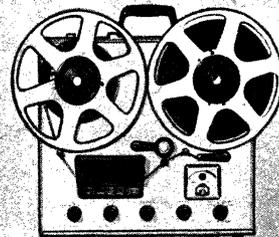
91 RU 791. \$14.95 Down. NET. 149.50

91 R 798. Model 5B. 20' extension cable for Model 4B, left. 3 lbs. NET. 19.95

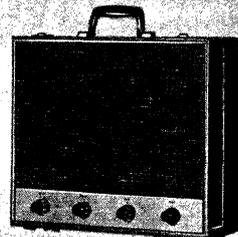
91 R 728. Model 10-B. Low Z input transformer. Wt., 3 lbs. NET. 29.95

91 RX 796. Model 11-B. Rack mounting adapter. Shpg. wt., 6 lbs. NET. 18.50

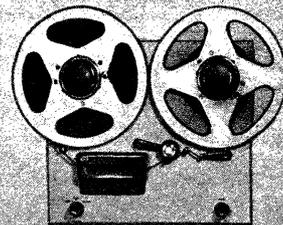
91 R 729. Model 12-B. Fitted canvas cover for Series 60 or 260. Has pocket for tape and mikes. Wt., 1 lb. NET. 9.25



Series 60 Recorder



Model 260 Speaker-Amplifier

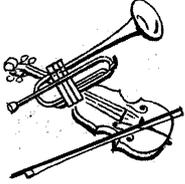


Model 68 Tape Deck

knight® TOP-QUALITY RECORDING TAPES

knight Tapes
Offer You Exceptional Quality
at New Money Saving Prices

FULL FREQUENCY RANGE. Every reel of Knight recording tape is manufactured to meet Navy specs W-T-0061 for uniform sensitivity plus full frequency response. In addition, Knight tape conforms to the highest standards of Allied's audio experts—your assurance of optimum performance, superior quality and superb fidelity.



EXTRA STRENGTH. Knight tape meets every test for shock tensile and tensile strength as described by Navy specs W-T-0061. Each reel provides dependable service without stretching or breaking. Rigid manufacturing controls assure the high quality of each reel.

OXIDE COATING STAYS ON. Anchorage tests—covered by Navy specs W-T-0061—prove the superiority of Knight recording tape. The oxide won't rub off or scrape off—your tape library retains its fidelity.

WILL NOT CUP Knight recording tape meets Navy specs W-T-0061 for resistance to effects of moisture. This important feature guarantees perfectly flat contact of tape to head without "cupping"—response is superior.

knight "PLUS-PLAY" 1-Mil Mylar Tape

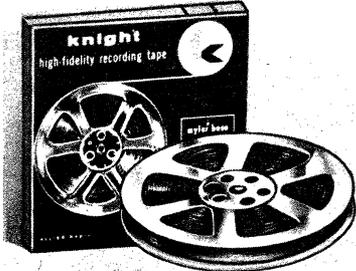
AS LOW AS
\$173

5-Lot Price

Allied's finest quality recording tape—provides 50% greater recording time than standard tapes—and has Mylar plastic base for extreme strength and break-resistance. Mylar is the most permanent medium yet developed for magnetic recording. Characteristics meet the most critical professional requirements and government specs. Factory-fresh and splice-free, each reel is sealed in cellophane and packaged in a hinged box suitable for filing. Your cost is far below that of other high-quality recording tapes.

The Mylar base of this outstanding tape provides exceptional reliability, even under adverse conditions—virtually unaffected by extremes in heat, cold and humidity. Mylar makes Knight "Plus-Play" superior to ordinary recording tape.

- Meets Critical Professional Specifications
- 50% More Recording Time Than Standard Tape
- Factory-Fresh and Splice-Free—Cellophane Sealed



1-Mil Mylar Tape

Stock No.	Feet	Reel	Lbs.	1-4, EACH	5-Up, EACH
92 R 939	900	5"	3/4	1.92	1.73
92 R 940	1800	7"	1 1/4	3.33	2.99

knight "PLUS-PLAY" 1-Mil Acetate Tape

AS LOW AS
\$139

5-Lot Price

One of the most popular recording tapes available today. Offers superior quality, greatly extended playing time (as much as three hours per reel) and genuine savings. Much thinner than standard tape. "Plus-Play" tape is wound 1800 feet to a 7-inch reel, to provide 50% more footage than conventional tape. This additional length permits uninterrupted recordings of entire concerts, conferences, or other events, on a single tape.

Knight "Plus-Play" tape offers maximum fidelity at minimum cost. Thinner base and special coating processes are employed to make its greater length possible. Uniformly coated with red oxide on cellulose acetate—delivers excellent response. Supplied on transparent molded plastic reels.

- Provides Extended Playing Time—Up to 3 Hours
- Has 50% More Footage than Conventional Tape
- Offers Excellent Fidelity At Minimum Cost



1-Mil Acetate Tape

Stock No.	Feet	Reel	Lbs.	1-4, EACH	5-Up, EACH
96 R 981	900	5"	3/4	1.55	1.39
96 R 982	1800	7"	1 1/4	2.77	2.49

knight STANDARD 1 1/2-Mil Acetate Tape

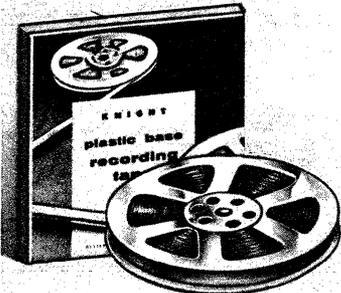
AS LOW AS
\$119

5-Lot Price

Allied's own top-quality, acetate-base recording tape—unusually low in cost, and carefully manufactured to fulfill the most critical recording requirements. Delivers outstanding results in professional as well as home recording applications. Its pure, red-oxide recording surface is precision-applied to assure excellent high-frequency response, noise-free reproduction, uniform output, as well as minimum abrasive action.

You can be sure of the exceptional quality of this value-packed recording tape—its performance is comparable with that of any other brand of tape available, regardless of price. Supplied on clear plastic reels.

- Excellent Performance At Unusually Low Cost
- Delivers Noise-Free Reproduction—Uniform Output
- Guaranteed Splice-Free for Dependable Service



1 1/2-Mil Acetate Tape

Stock No.	Feet	Reel	Lbs.	1-4, EACH	5-Up, EACH
96 R 698	600	5"	1/2	1.32	1.19
96 R 699	1200	7"	1	1.88	1.69

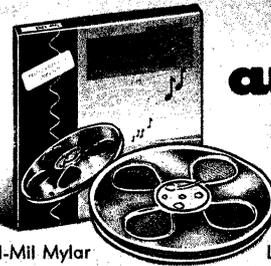
Depend on Allied for Highest Quality Recording Tape



Standard



1-Mil Mylar



Low-Print

audiotape

MAGNETIC TAPE

STANDARD TAPE—1½-MIL ACETATE. Plastic reels except *NARTB aluminum (3" center opening). Av. shpg. wt., 8 oz.

No.	Type	Footage	Reel	List	EACH	Lot Price
96 R 562	151	150'	3"	\$0.70	.46	.41†
96 R 561	351	300'	4"	1.35	.88	.79†
96 R 560	651	600'	5"	2.25	1.47	1.32†
96 R 356	1251	1200'	7"	3.50	2.29	2.06†
96 R 357	2551R*	2500'	10½"	10.90	7.12	6.41†

†NET EACH, 10 or more. ‡NET EACH, 5 or more.

"LONGER-RECORDING" TAPE—1-MIL ACETATE. 50% more recording time. Plastic reels except *NARTB alum. (3" ctr. opening). 8 oz.

No.	Type	Footage	Reel	List	EACH	Lot Price
92 R 935	941	900'	5"	\$3.50	2.29	2.06†
92 R 936	1841	1800'	7"	5.50	3.60	3.23†
92 R 937	3641R*	3600'	10½"	12.85	8.40	7.56†

†NET EACH, 10 or more. ‡NET EACH, 5 or more.

"LONGER-RECORDING" TAPE—1-MIL MYLAR. 50% more recording time. Mylar base. On plastic reels except *NARTB aluminum reel (3" center opening). ‡Plastic reel in self-mailer carton. 12 oz.

No.	Type	Footage	Reel	List	EACH	Lot Price
96 R 838	261§	225'	3"	\$1.00	.66	.59†
96 R 955	961	900'	5"	3.60	2.35	2.12†
96 R 956	1861	1800'	7"	6.20	4.05	3.65†
96 R 958	3661R*	3600'	10½"	14.40	9.80	8.82†

†NET EACH, 10 or more. ‡NET EACH, 5 or more.

COLOR BASE TAPE—1½-MIL ACETATE. Same high quality as acetate base (left). Plastic reels. Shpg. wt., 8 oz.

No.	Green	No.	Blue	Footage	Reel	EACH	10-Up, EA.
96 R 736	651G	96 R 738	651B	600'	5"	1.47	1.32
96 R 737	1251G	96 R 739	1251B	1200'	7"	2.29	2.06

LOW-PRINT TAPE. Minimizes print-through of signal while tape is in storage. *1½ mil acetate. †1½ mil Mylar. Av. shpg. wt., 12 oz.

Stock No.	Mfr's Type	Footage	Reel Size	List	1-4, EACH	5-9, EACH	10-UP, EACH
92 R 931	1251-M*	1200'	7"	\$4.30	2.80	2.80	2.53
92 R 930	2551R-M*	2500'	10½"	12.50	8.16	7.35	7.35
92 R 932	1271-M†	1200'	7"	7.70	5.03	5.03	4.53
92 R 933	2571R-M†	2500'	10½"	16.40	10.71	9.64	9.64

TEMPERED MYLAR TAPE. Has twice the strength of conventional ½-mil tape. Plastic reel. Av. shpg. wt., 8 oz.

Stock No.	Type	Reel	Length	List	1-9, EA.	10-Up, EA.
92 R 959	1231T	5"	1200'	\$4.75	3.11	2.79
92 R 960	2431T	7"	2400'	8.75	5.71	5.14

TAPE RECORDER REELS. 10½". With box. *3" center. Wt., 8 oz.

No.	Type	Description	List	1-4, EA.	5-Up, EA.
96 R 358	10RB	NARTB aluminum*			
96 R 997	10FS	Fiberglass, RETMA adapterless 5/16" center	\$4.00	2.62	2.35

MYLAR SPCED-TIMING LEADER TAPE. 100 ft. of white Mylar leader tape. Special markings for timing. Shpg. wt., 5 oz.

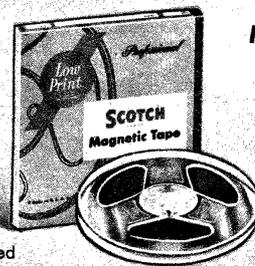
92 R 938. List, 55¢ NET..... 37¢



Standard



Tensitized



Low-Print

MINNESOTA MINING

SCOTCH

BRAND

MAGNETIC TAPE

TYPE 111 STANDARD TAPE—1½-MIL ACETATE. General-purpose acetate base recording tape of high quality. Supplied on high-strength molded plastic reel, except *aluminum NAB reel (3-inch center opening). Av. shpg. wt., per reel, 8 oz.

Stock No.	Mfr's Type	Footage	Reel Size	List	1-11, EACH	12-Up, EACH
92 R 991	111-1.5	150'	3"	\$.70	.46	.41
92 R 992	111-3	300'	4"	1.35	.88	.79
92 R 993	111-6	600'	5"	2.25	1.47	1.32
92 R 994	111-12	1200'	7"	3.50	2.29	2.06
92 R 995	111-24R*	2400'	10½"	10.90	7.13	6.41

TYPE 190 EXTRA-PLAY TAPE—1-MIL ACETATE. Thin acetate base provides 50% more playing time on standard size reels. *NAB aluminum reel (3" center opening). Av. shpg. wt., 12 oz.

Stock No.	Mfr's Type	Footage	Reel Size	List	1-11, EACH	12-Up, EACH
92 R 996	190-9-100G	900'	5"	\$3.50	2.29	2.06
92 R 997	190-18-100G	1800'	7"	5.50	3.60	3.23
92 R 998	190-36R-100G	3600'	10½"	12.85	8.40	7.56

TYPE 150 EXTRA-PLAY TAPE—1-MIL MYLAR. Extra-strong Mylar plastic base tape; perfect for the discriminating tape recording fan and an excellent value at these low prices. The well-known durability of Mylar tape and its immunity to stretching or breaking make it ideal for use in recording lengthy musical programs, long conferences, etc. Plastic reels except *NAB aluminum 10½" reel (3" center opening). Av. shpg. wt., 12 oz.

Stock No.	Mfr's Type	Footage	Reel Size	List	1-11, EACH	12-Up, EACH
92 R 900	150-9	900'	5"	\$3.60	2.35	2.12
92 R 901	150-18	1800'	7"	6.20	4.04	3.65
92 R 903	150-36R*	3600'	10½"	14.40	9.41	8.47

TYPE 120-12 HIGH-OUTPUT TAPE—1½-MIL ACETATE. 8 to 12 db higher output. 1200'. Plastic 7" reel. Shpg. wt., 12 oz.

92 R 999 12-UP, EACH..... 3.24 1-11, NET EACH..... 3.60

TYPE 41-¼S SPLICING TAPE. Coated one side with non-run adhesive. 150', ½" wide, on handy dispenser. Shpg. wt., 3 oz.

96 R 232. NET..... 34¢

LOW-PRINT TAPE—1½-MIL ACETATE. Minimizes print-through during storage. 7" reel, 1200'; 10½" reel, 2400'. Shpg. wt., 12 oz.

Stock No.	Type	Reel Size	1-11, EA.	12-Up, EA.
92 R 917	131-12	7"	2.88	2.59
92 R 918	131-24R	10½"	8.40	7.56

TYPE 200 TENSILIZED TAPE. Super-strength, long-play tape. Polyester ¾-mil base. 7" reel; 2400'. Shpg. wt., 12 oz.

92 R 934. 24-Up, EACH..... 5.14 1-23, NET EACH..... 5.71

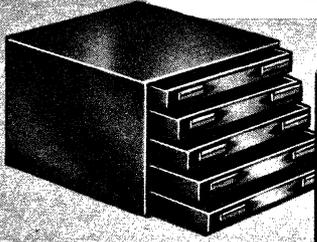
EMPTY PLASTIC REELS. Supplied complete with index box. Durably made of molded high-strength plastic, completely transparent. Adequate space provided on each reel for labeling or marking. Av. shpg. wt., 4 oz.

Stock No.	Reel Size	List	1-11, EACH	12-Up, EACH
96 R 237	3"	25¢	17¢	15¢
96 R 349	4"	55¢	37¢	33¢
96 R 236	5"	65¢	44¢	39¢
96 R 194	7"	75¢	50¢	45¢

ONE-REEL MAILING BOXES. Shpg. wt., 3 oz.

Stock No.	Reel Size	List	1-11, EACH	12-Up, EACH
96 R 324	5"	15¢	10¢	9¢
96 R 323	7"	20¢	13¢	12¢
96 R 322	10½"	30¢	20¢	18¢

RECORDING TAPE AND ACCESSORIES



Popular Tape—and
Combination Offers



Reeves SOUNDCRAFT Recording Tape

"LIFETIME" TAPE—1½-MIL MYLAR. Micropolished. Plastic reels, except *RETMA fiberglass reel. Av. shgp. wt., 8 oz.

Stock No.	Mfr's Type	Footage	Reel Size	1-11, EA.	12-Up, EA.
96 R 968	L-6	600'	5"	2.78	2.50
96 R 969	L-12	1200'	7"	4.58	4.17
92 R 954	L-24RF*	2400'	10½"	10.19	9.12

"RED DIAMOND" STANDARD TAPE—1½-MIL ACETATE. Micropolished. Acetate base. Plastic reels except *RETMA fiberglass.

Stock No.	Mfr's Type	Footage	Reel Size	1-11, EA.	12-Up, EA.
96 R 960	SPN-1	150'	3"	.46	.41
96 R 961	SPN-3	300'	4"	.88	.79
96 R 962	SPN-6	600'	5"	1.47	1.32
96 R 963	SPN-12	1200'	7"	2.29	2.06
92 R 950	SPN-24RF*	2400'	10½"	7.12	6.41

"PLUS-50" TAPE—1-MIL MYLAR. 50% more footage. Micropolished. Mylar base. Plastic reels except *RETMA fiberglass. 8 oz.

Stock No.	Mfr's Type	Footage	Reel Size	1-11, EA.	12-Up, EA.
92 R 952	PL-2	225'	3"	.66	.59
96 R 972	PL-9	900'	5"	2.45	2.20
96 R 973	PL-18	1800'	7"	4.24	3.82
92 R 953	PL-36RF*	3600'	10½"	9.80	8.82

95 R 917. XP-24 "Plus 100" Tape—½-Mil Mylar. Extra-long-play micropolished tape. Requires careful handling. 2400', 7" plastic reel. Shgp. wt., 14 oz. 12-Up, EA. . . . 5.39 1-11, EA. . . . 6.05

TAPE TIMING CHART. Semi-logarithmic tape timing chart. Covers speeds from 1¼ to 15", single and dual track. Wt., 6 oz.

92 R 955. List, \$1.20. NET. 88c

COMBINATION OFFERS—REELS OF TAPE IN CHESTS. *8x7¼x7½".

No.	Mfr's Type	Tape	Reels	Lbs.	List	NET EACH
96 R 964	SPNC-7	"Red Diamond"	5-1200'	8	17.50	11.45
96 R 953	LC-7	"Lifetime"	5-1200'	8	31.50	22.90
96 R 952	PLC-7	"Plus-50"	5-1800'	9	30.00	21.20
96 R 959	7STC	Tape Chest Only*		4	1.50	1.10

RCA Recording Tape

ACETATE-BASE TAPE. Quality magnetic tape for critical recording applications. Oxide coating is impregnated with dimethyl silicone, a dry lubricant, to reduce wow, flutter, squeal and tape head wear. Oxide particles are extremely small to minimize tape hiss and permit high-level recording with low distortion. Plastic reels especially slotted for easy loading. Av. shgp. wt., 8 oz.

Stock No.	Mfr's Type	Tape Footage	Reel Size	Mils	List	NET EACH	
						1-11	12-Up
92 R 963	250C1	900'	5"	1	\$3.50	2.29	2.06
92 R 964	251C1	600'	5"	1½	2.25	1.47	1.32
92 R 965	255C1	1800'	7"	1	5.50	3.60	3.23
92 R 966	256C1	1200'	7"	1½	3.50	2.29	2.06

MYLAR-BASE TAPE. Superior magnetic recording tape on a Mylar base. For use under adverse recording conditions, or where extended playing time is desired. Includes the modern features described in the acetate-base tape listing above—plus easy-loading, slotted plastic reels. Av. shgp. wt., 8 oz.

Stock No.	Mfr's Type	Tape Footage	Reel Size	Mils	List	NET EACH	
						1-11	12-Up
92 R 967	252C1	1200'	5"	½	\$4.55	2.97	2.68
92 R 968	253C1	900'	5"	1	3.60	2.35	2.12
92 R 969	254C1	600'	5"	1½	4.10	2.68	2.41
92 R 970	257C1	2400'	7"	½	7.85	5.34	4.61
92 R 971	258C1	1800'	7"	1	6.20	4.05	3.65
92 R 972	259C1	1200'	7"	1½	6.65	4.34	3.91

TYPE 501C1. Here's a handy bookshelf-type case for convenient filing and storage of your tapes. Case is covered with gold-stamped, simulated red leather. Employs heavy chipboard construction—enclosed on five sides. Vertically divided into five compartments—each compartment holds one 5" reel of tape. Case size is 5½x4¾x6x 5¾" deep. Shgp. wt., ½ lb.

92 R 961. List, \$1.28. NET. 75c

TYPE 502C1. As above, but holds five 7" reels of tape. Size is 7½x 4¾x7¾" deep. Shgp. wt., ½ lb.

92 R 962. List, \$1.40. NET. 82c

Wood Furniture Base for Tape Decks



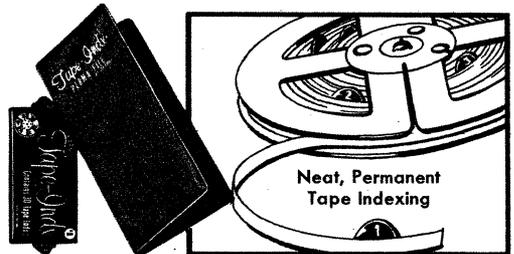
Expertly designed, carefully made furniture bases for shock-mounting of tape decks. Correct size for Viking, Bell and Pentron decks. Constructed of selected ¾" hardwood stock and fine furniture veneers, hand-rubbed to a lustrous finish. Top board "floats" on sponge rubber to keep shocks from being transmitted to tape deck. Mitered joints provide extra firmness and rigidity. Rubber-covered feet prevent marring of furniture. Feet are adjustable to permit leveling of base. Top board is blank to permit cutting to fit particular tape deck. Height, 6¾"; width, 21"; depth, 16¾". Base is completely pre-assembled. Shgp. wt., 15 lbs.

- 91 RU 563C. Mahogany. 21.75
- 91 RU 563C. Limed Oak. 21.75
- 91 RU 563C. Walnut. 21.75

HEAVY-DUTY DRAWER SLIDES FOR ABOVE. 18" long. Normal extension is 16". Shgp. wt., 5 lbs.

86 R 199. List, \$4.55. NET. 3.50

NEW DATREL "Tape IndX"



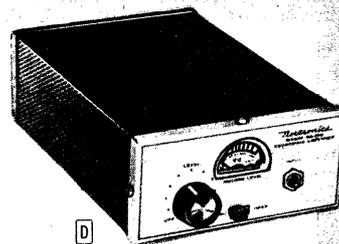
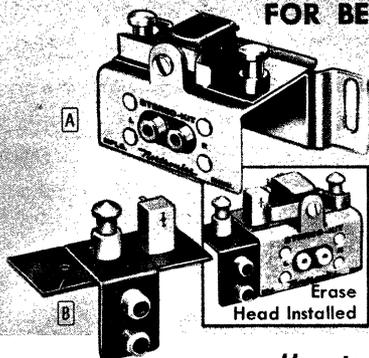
Eliminate messy, haphazard labeling of tapes and individual selections with the convenient Datrel tape-index assortment. Includes 30 Mylar labels in 5 different colors—one set of colored labels for each reel of tape. This permits keying up to 6 selections on each of 5 different reels. Numbered Mylar labels will not come off of tape or rip—can be run through tape mechanism without binding. Also included are 5 selection cards, one for each reel. Numbered spaces are provided on the cards for the title of each selection. These cards can be put on the tape box, separated and attached to each spoke of the reel, or put in a card file or folder (folder listed below). Shgp. wt., 2 oz.

92 R 973. NET. 98c

TAPE INDEX FOLDER. Reinforced plastic filing folder—holds ten tape selection cards. Size, 7x3¼". Shgp. wt., 4 oz.

92 R 974. NET. 98c

FOR BETTER, MORE VERSATILE RECORDING



How to Convert to Stereo with Nortronic Components

Now you can quickly convert your tape recorder to play back and record breathtaking stereophonic sound with a few easily installed components. The installation of any desired combination of these components is quick, easy, and involves no soldering—the only necessary tool is a screwdriver. The paragraphs below and to the right outline what you will need for converting your tape machine to perform the various stereo tape operations.

TO PLAY STEREO. The basic unit you will need for playing stereo tapes is one of the tape head assemblies listed below. The head can be connected directly to a stereo amplifier-speaker system equipped with tape-head inputs, or it can be connected to two PL-100 playback amplifiers. The PL-100 amplifiers have 4, 8 and 16 ohm outputs for direct connection to speakers; cathode follower outputs connect to inputs of a stereo amplifier-speaker system not having tape-head inputs.

TO RECORD STEREO. In order to make stereo recordings, you will need one of the two head assemblies below and two RA-100 recording amplifiers. The same head can be employed for both stereo record and playback by disconnecting it from the RA-100's and plugging it into the playback amplifying system. Use a single RA-100 with the head for monaural recordings.

TO COPY STEREO. You can use the recording combination described above to record stereophonic broadcasts or to copy stereo tapes, etc. The RA-100's have all necessary inputs.

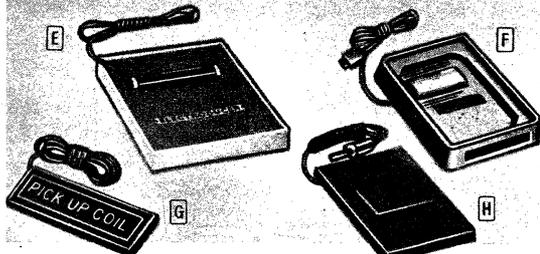
INTERCONNECTION OF NORTRONICS TAPE UNITS. A monaural installation without erase requires 1 pin-plug cable; a monaural installation with erase requires 2. The numbers are doubled for stereo, with the addition of 1 cable for stereo recording. See page 93 for cables (Stock No. 99 S 855).

- A STEREO TAPE HEAD ASSEMBLIES.** Compact playback-record heads—mount on side of tape unit with detachable bracket. Tape is routed through stereo assembly and then through present tape guides. May also be used monaurally. Response: 30-12,000 cps ± 3 db *at 7½ ips, ± 1 at 3¾ ips. 50 db crosstalk rejection. (Use SK-50 for the 4-track pre-recorded stereo tapes.) 1½x3x1¾", 6 oz.
 92 RC 976. SK-100*. 2-track. NET. 23.50
 92 RC 977. SK-50†. 4-track. NET. . . 26.00
- B STEREO ERASE ATTACHMENTS.** Fit on either side of tape heads. Provide stereo or selective monaural erase. 2 oz.
 92 RC 978. EK-100. 2-track. NET. 14.00
 92 RC 979. EK-50. 4-track. NET. . . 14.00

- C PL-100 PLAYBACK AMPLIFIER.** Designed to match high-impedance magnetic tape head—can be used in pairs with a stereo head or with any stereophonic phono cartridge. Outputs for connection to a speaker, or to the high-level input of a basic amplifier.
Low-level Inputs: tape head, magnetic phono cartridge. *High-level Input:* tuner or ceramic cartridge. *Outputs:* 4, 8, 16 ohms; 1 v. cathode followers. *Equalization:* continuously variable, with NARTB and RIAA. *Power Output:* 3 watts, push-pull triodes. *Response:* 30-15,000 cps, ± 2 db. 2% harmonic distortion. 2½x5x¾", For 110-120 v., 60-cycle AC. Shpg. wt., 6 lbs.
 92 R 980. NET. 39.50

- D RA-100 RECORDING AMPLIFIER.** Universal recording amplifier—can be adjusted for use with any tape head. Supplies audio power, bias voltage and erase head power. Includes inputs that permit use in pairs for copying stereo tapes or records. Has full NARTB equalization, VU meter and monitor jack.
Low-level Input: mike, tape head or magnetic phono cartridge. *High-level Input:* tuner or ceramic cartridge. *Outputs:* audio and 65 kc bias to recording head (currents adjustable), high (6K to 10K) or low (20 to 30 ohms) impedance to erase head, ± 55 db signal-to-noise ratio. 2½x5¾x8", For 110-120 v., 60-cycle AC. Shpg. wt., 6 lbs.
 92 R 981. NET. 49.50

Magnetic Telephone Pickups



- High-impedance coil units designed to permit recording both sides of a telephone conversation. Ideal for home or business—eliminate guesswork and misinterpretations. Require no electrical or physical connection to the telephone—simply place telephone on pickup. Plug into the mike input of your tape recorder, wire recorder or amplifier.
- E ELECTRO-DUCER TELEPHONE PICKUP.** For all types of telephones. Has removable coil. 1x6½x9½". 12 ft. cable. 1¼ lbs.
 99 S 482. List, \$12.50. NET. 7.35
- F ELECTRO-SCRIBER TELEPHONE PICKUP.** For standard rectangular-base cradle telephones. Heavy rubber construction. With 8 ft. cable and 3-prong Jones plug. 1¾ lbs.
 99 S 489. List, \$12.50. NET. 7.35
- G MAGNETIC RECORDING INDUSTRIES VM938 PICKUP.** For any telephone. 1¾x¾x4". 5' cord, less plug, 8 oz.
 99 S 478. NET. 2.98
- H KORD-O-KOIL MAGNETIC PICKUP.** For cradle telephones only. Size 5½x9x9¼". Attractive leatherette finish. Complete with 6-ft. cord and phone plug. Shpg. wt., 1¼ lbs.
 99 S 486. List, \$10.00. NET. 5.88

**NEW Soundcraft
"Magna-See"**

Permits you to see the magnetic sound track on your tapes

**NET
\$795**

- For Perfect Tape Head Alignment
- For Precision Tape Editing
- For Research, Home and Industry

See the sound track on your recorded tapes with this unique kit! Permits perfect alignment of recording heads and precise editing of tape. Allows you to eliminate the crosstalk and distortion caused by head misalignment. Ideal for anyone engaged in magnetic instrumentation or video taping, as well as the serviceman or home recordist.

Tape is run through a colloidal iron suspension, which deposits fine iron particles on the magnetic track. Deposit pattern shows you the vertical and angular head alignment, and its condition of wear. Kit includes ½-pt. can of iron suspension, jewelers' "loop", plastic tray, and a roll of transparent tape with 4 slides. Shpg. wt., 1½ lbs.
 92 R 975. NET. 7.95
 92 R 806. ½-Pt. of Iron Suspension. ¼ lbs. NET. 3.00



knight

Outstanding Recording Microphone

knight KN-4500 DYNAMIC MICROPHONE

NET **\$24.95**
 \$2.50 DOWN

- Made by a Famous U.S. Manufacturer
- Perfect for Group Recording
- Greatly Improves Recording Quality
- Fits 90% of Home Tape Recorders

Superlative value in a high-fidelity dynamic microphone—made by one of America's leading manufacturers of broadcast equipment! Ideal for PA and recording applications, the mike may be used on the desk stand supplied, or mounted on any standard floor stand. Comes complete with a 10-ft. cable and shielded screw-type microphone connector to fit any PA amplifier. Phone plug adapter supplied will fit 90% of all home recorders.

Although the mikes supplied with most home tape recorders are of sufficient quality to provide good voice reproduction, recording of music calls for a fine dynamic microphone such as the top-value KN-4500. Another advantage of using the precision-made Knight dynamic microphone is a continued high standard of performance under extremes of temperature and relative humidity.

Pickup pattern is all-directional—perfect for recording group entertainment or discussions. Wide-range response, from 60 to 12,000 cps, assures realistic, natural quality of both voice and music. High impedance output; output level is -56 db. 1 1/2"x7 1/2" long. Hand-somely finished in black and gold. Shpg. wt., 2 1/2 lbs.
 94 S 097. Only \$2.50 Down. NET..... **24.95**

COMPLETE SELECTION OF QUALITY



A COMPLETE TAPE ACCESSORY KIT

HANDY KIT FOR TAPE RECORDISTS

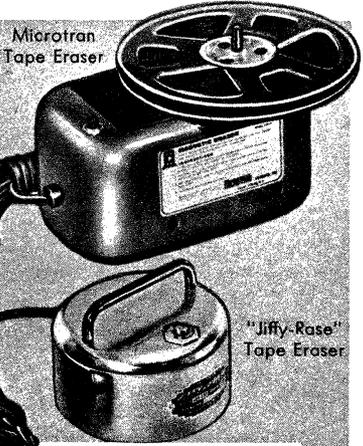
NET **\$7.35**

A complete kit of helpful, time-saving accessories for the tape recordist. Includes valuable aids for editing, splicing and identification; everything needed for cleaning and lubricating magnetic heads; and a convenient tape threader.

Contains: Robins TS-4JR Tape Splicer, 150-inches dispenser roll of splicing tape, 30 tape identification labels, 150-foot dispenser roll of leader and timing tape, 1 bottle each of "Long Life" Tape Head Cleaner and Lubricant Fluids, and a Robins tape threader.

The Robins tape splicer cuts tape ends diagonally and gives splice a concave trim to prevent binding in the recording mechanism. The splicing tape is especially made for use with magnetic recording tape—adhesive will not spread to adjacent layers of tape under storage and cause them to stick together. Tape can be neatly identified by using the labels supplied. Labels have an easy-to-apply adhesive backing and show title, date and reel number. The leader and timing tape can either be used at the beginning of a reel or put between selections to permit accurate interval timing.

Tape-head cleaner permits close contact of tape to head—increases effective recorder sensitivity and reduces noise in recordings. Lubricant reduces flutter and wow—assures that machine will run at correct speed for maximum timing accuracy and trueness of pitch in recordings. Tape threader greatly simplifies starting a tape on take-up reel—slips over shaft and empty reel hub for quick threading. Shpg. wt., complete kit, 1 1/2 lbs.
 94 R 921. NET..... **7.35**



Microtran Tape Eraser

"Jiffy-Rase" Tape Eraser

MICROTRAN BULK TAPE ERASER

MODEL HD-11. Here's a unit designed to erase a complete reel of tape—quickly and efficiently. Permits making greatly improved recordings by lowering background noise levels from 3 to 6 db. Ideal for the recording enthusiast desiring clean, distortion-free tapes; also for those who have Pentron, Viking, or other tape decks without stereo erase. Exceptionally easy to operate—simply rotate reel of tape over unit. Tape is quickly demagnetized—cleaner than originally packaged, unused tape. Adds new life to often-used tapes. Size, 3 1/2"x4 3/4"x7 3/4". For operation from 110-120 volts, 50-60 cycle. AC. Shpg. wt., 8 1/2 lbs.
 92 R 941. \$2.29 Down. NET..... **22.91**

"JIFFY-RASE" BULK TAPE ERASER

Highly efficient, easy-to-use bulk tape eraser—permits you to erase an entire reel of tape or wire at a time without using your recorder. Just push momentary switch and move "Jiffy-Rase" over reel—provides a clean, noise-free erasure. Tape is restored to better than its original condition. You can also improve your recordings by using the "Jiffy-Rase" to demagnetize record and playback heads. Allows quick erasure of tapes recorded on stereo decks that do not include erase heads. Demagnetize s screw-drivers, pliers, or any other tools in which magnetism is undesirable. 5" O.D. x 3 1/2" H. For 110-120 v., 60 cycle AC. 7 lbs.
 96 R 569. \$2.10 Down. NET..... **20.98**

TAPE CASES AND RACK

10-REEL TAPE CARRYING CASE. Handsome, lightweight tape carrying case—stores ten 7" reels of tape. Sturdily constructed of wood with a cleanly styled, simulated-leather, brown and white covering. Has securely fastened carrying handle and clasp lock. Includes protective feet to prevent marring furniture. Measures only 8 1/2"x8 1/2"x8 3/4". Shpg. wt., 3 1/4 lbs.
 96 RX 580. NET..... **5.95**

5-REEL TAPE CARRYING CASE. Rugged tape case designed for maximum portability—holds five 7" reels of tape. Constructed of lightweight, rigid fiberboard with grip-molded plastic handle. Metal clasp securely locks cover. Case may also be used for tape filing or storage. Measures 7 3/4"x7 3/4"x3 3/8". Shpg. wt., 1 lb.
 99 R 172. NET..... **1.49**

10-REEL TAPE STORAGE RACK. Convenient tape storage rack with sleek modern styling. Holds 10 reels of tape between sturdy, curved steel rods. Smart black and gold finish matches any decor. Has protective feet—can't mar furniture. Maximum height is 7". Shpg. wt., 2 lbs.
 92 R 914. List, \$3.98. NET..... **2.40**

WIRE RECORDER WIRE AND HEADS



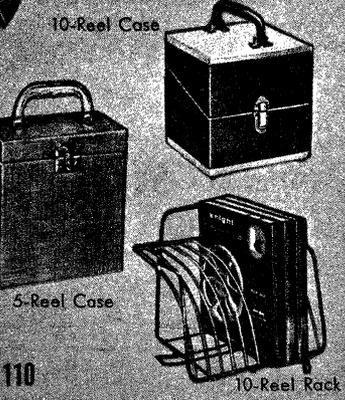
WEBSTER-CHICAGO 2904 WIRE RECORDING HEAD. Not illustrated. Replacement head for all Webster-Chicago wire recorders. Records, plays back and erases. Less head cover and mounting screw. Complete with instructions. Wt., 11 oz.
 96 R 049. List, \$7.50. NET..... **5.88**

ECHO RECORDING WIRE

High-quality .0036" stainless steel wire on die-cast spools. With plastic leaders.

Stock No.	Spool Size	Shpg. Wt.	NET EACH
96 R 145	1/4 hour	6 oz.	1.69
96 R 146	1/2 hour	8 oz.	2.56
96 R 147	1 hour	11 oz.	4.25

EMPTY METAL SPOOL. Holds 1-hr. wire supply. Shpg. wt., 8 oz.
 96 R 044. NET..... **42c**

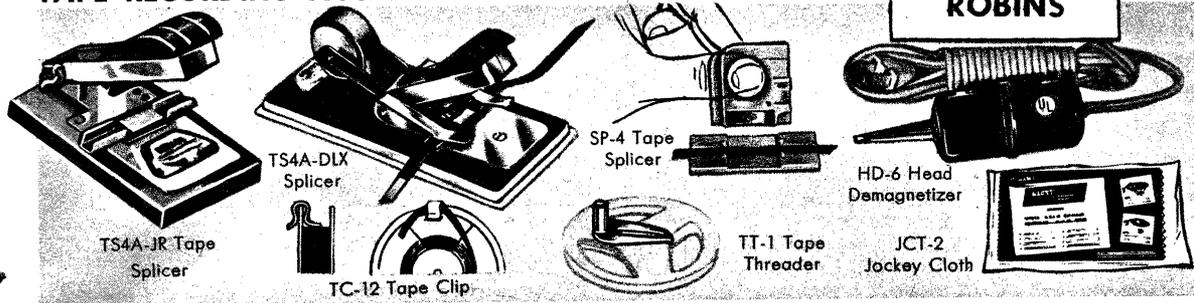


10-Reel Case

5-Reel Case

10-Reel Rack

TAPE RECORDING ACCESSORIES



ROBINS

TS4A-JR TAPE SPLICER. Compact tape splicer designed for rapid tape editing and repairing. Employs replaceable cutter cartridge with two operating positions—miter cut and trimming cut. First position cuts tape diagonally, second position presses splicing tape over diagonal cut and trims concave indentation on either side of splice to prevent binding in recording mechanism and layer-to-layer adhesion. Uses $\frac{1}{2}$ " splicing tape. Size, $2\frac{1}{4} \times 3$ ". Shpg. wt., 7 oz.
92 R 983. List, \$6.50. NET **4.78**

TS4A-DLX TAPE SPLICER. As above, with attached splicing tape dispenser and toggle-action hold down fingers. Supplied with rigid plastic dust cover and splicing tape. Size, $2\frac{1}{4} \times 5\frac{3}{8}$ ". Shpg. wt., 12 oz.
92 R 984. List, \$11.50. NET **8.46**

TS4A-STD TAPE SPLICER. As above, less splicing tape and holder. 8 oz.
92 R 985. List, \$8.50. NET **6.25**

ROBINS RECORDING ACCESSORIES

SP-4 TAPE SPLICER. Small, low-cost tape splicer—makes diagonal and concave trim cuts described at left under TS4A-JR. Consists of tape alignment guide and cutting surface, cutting unit, and blade cover. Shpg. wt., 2 oz.
92 R 986. List, \$3.50. NET **2.57**

HD-6 HEAD DEMAGNETIZER. Compact demagnetizer for removing permanent magnetism from tape recording heads. Reduces noise level and harmonic distortion. Just place flat surface of demagnetizer pole piece on poles of head and slowly remove—quickly and easily neutralizes any residual magnetism. $4\frac{3}{8}$ " overall length x $1\frac{1}{4}$ " dia. For 110 v., 60 cycle AC. Shpg. wt., 1 lb.
92 R 990. List, \$10.00. NET **7.35**

TC-12 TAPE CLIPS. Handy clips keep tape from unwinding. 3 oz. 12 per pkg.
92 R 989. List, 35c. PER PKG **25c**

TT-1 TAPE THREADER. Place your tape against the reel, slip on threader, turn crank a few times, and tape is securely threaded on the reel. For reels to 7". Shpg. wt., 2 oz.
96 R 713. List, 98c. NET **79c**

JCT-2 JOCKEY CLOTH FOR TAPES. Cleans, lubricates and protects tape by depositing on it a thin film of silicone. Just apply cloth while running tape through player or recorder. Reduces squeal, chatter, and head and tape wear. Cloth is washable. 3 oz.
92 R 988. List, \$1.00. NET **59c**

ST-500 SPLICING TAPE. Roll of quality splicing tape. $\frac{1}{2}$ " wide. 2 oz.
95 R 713. List, 39c. NET **29c**

RK-2 REPLACEMENT KIT. For TS4A series splicers. Contains replacement cutter cartridge and 2 cutting pads. Shpg. wt., 5 oz.
92 R 987. List, \$1.25. NET **98c**

AUDIO COLORED PLASTIC REELS. Attractive colored plastic reels (less tape) available in blue, green, yellow and red, as well as standard clear plastic. All are available in 5" and 7" sizes. Reels are supplied in boxes. Av. shpg. wt., 4 oz.

Size	Stock No.				
	Clear	Red	Yellow	Green	Blue
5"	96 R 748	96 R 740	96 R 742	96 R 744	96 R 746
7"	96 R 749	96 R 741	96 R 743	96 R 745	96 R 747
5" REEL.	List, 60c. NET EACH 39c				
10-Up.	EACH 35c				
7" REEL.	List, 75c. NET EACH 49c				
10-Up.	EACH 44c				

AUDIO TYPE 400 HEAD DEMAGNETIZER. Quickly demagnetizes tape recording heads to achieve reduced noise level and distortion. Neutralizes the residual magnetism induced in head by transients from speech, music, line noise, and starting and stopping the tape machine. Consists of an AC magnet with pole pieces shaped to fit contour of recording heads. Extremely easy to use—just place pole tips against head for a moment and slowly remove. AC magnet dia., $1\frac{1}{4}$ ". For 110-115 volts, 60 cycle AC. Shpg. wt., 1 lb.
96 R 563. List, \$10.00. NET **5.88**

AUDIO TYPE 30AL IDENTIFICATION LABELS. Self-adhesive, $\frac{1}{2} \times 2$ " labels. Attach to reel for quick identification. Shpg. wt., per pkg., 4 oz. 30 per pkg.
96 R 564. List, 20c. NET PER PKG **12c**

JIFFY-SPLICE TAPE SPLICER. Holds magnetic recording tape in alignment for cutting and splicing. Two clamping clips hold the tape in place—slots guide your knife or razor blade in making both diagonal and trim cuts. Trim cuts are made slightly into the splice to prevent binding in tape mechanism or sticking to other layers of tape on the reel. $\frac{3}{4} \times 4\frac{1}{4} \times 1\frac{1}{2}$ ". Shpg. wt., 5 oz.
96 R 379. List, \$2.50. NET **1.50**

SCOTCH 43P PLASTIC BASE LEADER AND TIMING TAPE. Precision leader and timing tape for editing and starting of tapes. Has strong plastic base. Marked in 1-second intervals for 3.75", 7.5" and 15" per second. 150-ft. roll. 3 oz.
92 R 905. NET **57c**

TAPEMASTER $4\frac{1}{2}$ " VU METER. Make better-than-ever tape recordings with this precision volume unit meter. Eliminates guesswork when adjusting level control by indicating whether recording level is too high or too low. Helps prevent overload distortion; permits emphasizing or de-emphasizing any passage. Needle swing is at a slow rate for positive readings. 2-color scale calibrated 0 to 100% modulation percentage and -20 to +3 VU. Has dual-impedance input for use with high or low impedance circuits. Basic sensitivity is 200 microamps—supplied with shunts for 1.2 or 12-v. 0 VU operation. Mounts in $2\frac{3}{4}$ " dia. hole; depth behind panel is $1\frac{1}{2}$ ". With instructions for using with all makes of recorders. Shpg. wt., 1 lb.
92 R 942. NET **15.95**

Selected Tape Recording Accessories

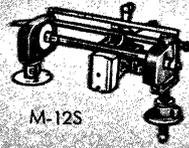
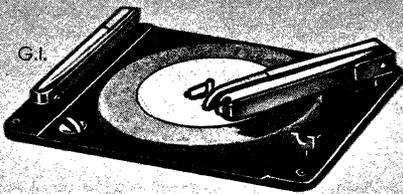
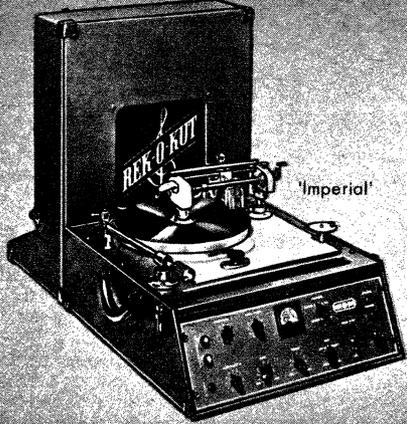


SHURE EXACT-REPLACEMENT TAPE RECORDER HEADS

Quality Shure tape recorder heads for replacement or modernization of older tape recorders. If in doubt as to the correct unit to select, send the make, model and serial number of your recorder to Allied for the proper replacement data. *Has Cinch plug and 14" leads.

Stock No.	Mfr's Type	Fig.	Coil Impedance	Replaces Older Type	Wt., oz.	List	NET EACH
65 R 366	815	A	Low	TR5 TR5H	4	\$15.00	8.82
65 R 584	815H	A	High	TR5D, TR5K, TR5C	4	15.00	8.82
65 R 588	816	B	High	TR6C	4	12.00	7.05
92 R 982	TR21C-J	C	High	TR16A, 817	6	14.00	8.23
65 R 586	TR5B*	A	Low	TR5B	10	17.00	9.99
65 R 413	TR16	C	High	.....	6	9.00	5.29
65 R 439	TR26	C	High	TR26	6	11.00	6.47

Fig. A: upper-track record, playback, erase type. Fig. B: upper-track record, playback type. Fig. C: 0.093" upper-track record playback type.



Rek-O-Kut "Imperial" Professional Recorder

Precision Rek-O-Kut disc recorder equipped with the M-12S overhead recording lathe. Unit will accommodate all standard vertical-mounting cutting heads. Supplied with 120-line leadscrew; interchangeable with leadscrews up to 270 lines (see below). Lathe can be hand-cranked for run-in and run-off spiral grooves. Calibrated for critical timing. Model A-160, 16" playback pickup arm accommodates records up to 16" in diameter. Supplied complete with cutting head (Model R-56); frequency response, 50-10,000 cps. Less microphone. Uses standard short-shank cutting needle. For 105-125 v., 60 cycle AC. Shpg. wt., 80 lbs.

95 RZ 742. NET. 599.95

MODEL M-12S OVERHEAD RECORDING LATHE. Used in "Imperial" professional recorder listed above. Interchangeable with M-12 mechanism. Less head. Shpg. wt., 20 lbs.

95 RU 745. NET. 150.00

MODEL R-56 CUTTING HEAD. For Model M-12S recording lathe, above. Impedance, 8 ohms. Shpg. wt., 1 lb.

95 RC 746. NET. 60.00

MODEL M-12S-210 MICROGROOVE LEADSCREW. For Model M-12S recording lathe. 210 lines per inch. Shpg. wt., 1 lb.

95 R 743. NET. 44.95

MODEL M-12S-240 MICROGROOVE LEADSCREW. As above except 240 lines per inch. Shpg. wt., 1 lb.

95 R 744. NET. 44.95

MODEL TR-43H DUAL-SPEED RECORDING TURNTABLE. Dual speed, 12" aluminum turntable. Plays 33 1/3 and 78 rpm. Tapped for M-12S cutter. With heavy-duty, hysteresis synchronous motor. Includes 45-rpm idler. Less cutter. Shpg. wt., 21 lbs.

91 RZ 749. NET. 149.95

G. I. Recorder-Phono Assembly

MODEL G1-R85L-IP. Low-cost recorder-phonograph assembly for cutting and playing recordings. Easily mounted in cabinet, carrying case, etc. Cuts discs up to 10" in diameter at 160 lines per inch (standard groove only) at 33 1/3 and 78 rpm., or 45 and 78 rpm, using adapter spring included for that purpose. Weighted pickup arm provides proper needle pressure for playing standard and microgroove records. Turntable is rim-driven by 4-pole motor. Convenient depth of cut adjustment. An ideal unit for replacement of older disc recorders. Size, Base plate 15" W, 11 1/2" D; height, 6 3/4", 23 3/4" above, 3 3/4" below plate. Requires high-gain amplifier or radio with 3 watts or more output. Cutter head must be connected to high impedance source. Supplied complete with crystal cutting head less cutting needle (requires short shank type) and playback styl. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 17 lbs.

96 RX 106. List, \$59.50. NET. 35.70

MODEL G1-R85-IP WITH MAGNETIC HEAD. Same as G1-R85L-IP. but with magnetic cutting head which connects directly to 8-ohm output of any P.A. or hi-fi amplifier. Shpg. wt., 18 lbs.

96 RX 703. List, \$63.50. NET. 37.80

Astatic Disc Recording Heads and Needles

TYPE X-26 CRYSTAL. High impedance; response to 6000 cps. Includes flange for Wilcox-Gay, Knight and G.I. recorders. Connects to plate of output tube or 60,000 ohms transformer secondary. Approximate drive voltage required: 150 v. (rms). Size, 1 3/8 x 5/8 x 3 1/4". Complete with 24" leads. Shpg. wt., 1 lb.

65 R 125. NET. 7.53

TYPE M41-8 MAGNETIC. Impedance, 8 ohms; connects directly to amplifier output. Upper frequency limit, 7000 cps. Drive voltage, 3 v. (rms). Size, 1 3/4 x 1 1/8 x 3 3/4". 24" leads. Shpg. wt., 1 lb.

65 R 128. NET. 7.53

KNIGHT STEEL CUTTING NEEDLES. Short shank. Have .003" tip. Average cutting life, 20 minutes. Provide quiet cutting for fine recording. Shpg. wt., 3 oz.

65 R 803. Pkg. of 5. NET. 59c

KNIGHT SAPPHIRE CUTTING NEEDLE. Precision-ground and highly polished. Short shank. Has .003" tip. Av. life, 5 hrs. 2 oz.

65 R 800. NET EACH. 3.88

Quality Recording Discs for All Purposes

AUDIODISC PROFESSIONAL RECORDING BLANKS

Smooth-coated on both sides of aluminum base. Red Label discs for highest quality work; Yellow Label for general purpose work in studios and schools; Blue Label for home recording. *Large center hole for 45-rpm recordings.

Stock No.	Size	Label	Base	Wt. Ea.	Lbs. Pkg.	Std. Pkg.	NET EACH	
							Single	Lots/Std. Pkg.
69 R 085	7"	Red	.050"	5 oz.	5	25	.91	.82
69 R 069	8"	Red	.040"	5 oz.	5	25	.71	.65
69 R 070	10"	Red	.040"	6 oz.	8 1/2	25	1.01	.91
69 R 071	12"	Red	.050"	9 oz.	13 1/2	25	1.67	1.50
69 RX 072	16"	Red	.050"	1 lb.	25	25	3.01	2.70
69 R 089	8"	Yellow	.040"	5 oz.	5	25	.61	.55
69 R 090	10"	Yellow	.040"	6 oz.	8 1/2	25	.81	.72
69 R 091	12"	Yellow	.050"	9 oz.	13 1/2	25	1.30	1.18
69 RX 092	16"	Yellow	.050"	1 lb.	25	25	2.42	2.18
69 R 065	6 1/2"	Blue	.027"	3 oz.	6 1/2	50	.32	.29
69 R 066	8"	Blue	.027"	4 oz.	7 1/2	50	.46	.41
69 R 067	10"	Blue	.027"	5 oz.	10 1/2	50	.66	.59

REEVES SOUNDRAFT RECORDING DISCS

THE BROADCASTER. For critical recording. Finest physical and sound properties. Made with extreme care. Double face.

Stock No.	Size	Base	Wt. Ea.	Lbs. Pkg.	Std. Pkg.	NET EACH	
						Single	Lots/Std. Pkg.
69 R 260	10"	.040"	5 oz.	8	25	1.11	1.00
69 R 261	12"	.050"	8 oz.	14	25	1.73	1.56
69 RX 262	16"	.050"	26 oz.	16	25	3.17	2.86

THE PLAYBACK. Standard broadcast-quality double-faced discs.

Stock No.	Size	Base	Wt. Ea.	Lbs. Pkg.	Std. Pkg.	NET EACH	
						Single	Lots/Std. Pkg.
69 R 263	6 1/2"	.040"	3 oz.	4	25	.59	.53
69 R 265	10"	.040"	5 oz.	8	25	1.01	.91
69 R 266	12"	.050"	8 oz.	14	25	1.67	1.50

THE ADDITION. For recording in the home. Double-faced discs.

Stock No.	Size	Base	Wt. Ea.	Lbs. Pkg.	Std. Pkg.	NET EACH	
						Single	Lots/Std. Pkg.
69 R 268	6 1/2"	.040"	3 oz.	4	25	.52	.47
69 R 270	10"	.040"	5 oz.	8	25	.81	.73
69 R 271	12"	.050"	8 oz.	14	25	1.30	1.17

SEMI-PROFESSIONAL & HOME-TYPE RECORDING DISCS

For home, semi-professional and school use. Aluminum base (except 7" paper bond base), cellulose acetate coated. Red Label is semi-professional grade with excellent sound qualities.

Stock No.	Size	Label	Base	Wt. Ea.	Std. Pkg.	Wt. Pkg.	Std. Pkg.	NET EACH	
								Single	Lots/Std. Pkg.
69 R 109	6 1/2"	Orange	†	3 oz.	6	1/2 lb.	25c	15c	
69 R 140	6 1/2"	Red	.021"	3 oz.	5	1/2 lb.	30c	27c	
69 R 141	8"	Red	.021"	4 oz.	5	1/2 lb.	40c	36c	
69 R 142	10"	Red	.021"	4 oz.	5	1 lb.	60c	54c	
69 R 143	12"	Red	.021"	6 oz.	5	2 1/2 lbs.	73c	66c	
69 R 195	6 1/2"	Purple	.012"	3 oz.	5	1/2 lb.	23c	21c	
69 R 196	8"	Purple	.012"	4 oz.	5	3/4 lb.	33c	30c	
69 R 197	10"	Purple	.012"	4 oz.	5	1 lb.	47c	42c	

RECORD LABELS. Gummed record labels with spaces for title, artist, date, etc. Shpg. wt., per pkg., 2 oz. 50 per pkg.

65 R 520. 4 or more Pkgs., EA. .31c NET PER PKG. 35c

Disc Cutting Needles

AUDIPOINTS. High-quality recording needles. *For non-professional and Presto Model K recorders. †For professional recorders. 65 R 960 has 87° included angle; 65 R 961, 70°. All .003" except 65 R 966, .001". Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Description	NET EACH
65 R 960*	14	Sapphire, short dull shank	4.85
65 R 967*	20	As above, for microgroove	
65 R 961†	14	Sapphire, long dull shank	
65 R 966†	20	As above, for microgroove	
65 R 962*	202	Sapphire, short brass shank	3.88
65 R 963†	202	Sapphire, long brass shank	
65 R 964*	34	Stellite, short brass shank	1.47
65 R 965†	34	Stellite, long brass shank	

RCA TV Picture Tubes

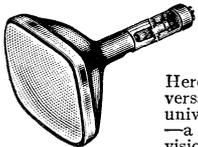


Fully guaranteed for 1 year. Number prefix in tube type indicates screen size. All tubes have magnetic focus and deflection except electrostatic focus and magnetic deflection. *Indicates aluminized screens. Department AU3 & AZ3 designates RCA, AU4 & AZ4 Raytheon; AU5 Dumont. Prices include Federal Excise Tax. When ordering, give the complete Stock Number, which consists of the Dept. No. and the Manufacturer's Tube Type. See page 442 for shipping instructions.



Stock No.				Stock No.					
Dept.	Tube Type	Shpg. Wt. Lbs.	List	NET EACH	Dept.	Tube Type	Shpg. Wt. Lbs.	List	NET EACH
AU3	8DP4†	4	\$32.00	23.52	AZ3	19AP4B	24	\$52.50	38.69
AU4	10AP4B	5	23.25	17.10	AU3	20D P4A/20CP4A	29	40.25	29.60
AU3	10BP4A	13	22.50	16.53	AU3	20D P4C/20CP4D*	29	48.00	35.15
AU3	10FP4A*	13	27.50	20.19	AU3	20HP4A/20MP4†	29	42.00	30.90
AU3	12KP4A*	17	31.75	23.20	AU3	20HP4D†*	29	49.75	36.46
AU3	12LP4A	17	27.25	19.93	AU3	21ACP4A/21AMP4A/21BSP4*	33	48.00	35.15
AU4	14ASP4†*	17	43.50	31.88	AU3	21ALP4A/21ALP4B†*	33	49.75	36.46
AU3	14ATP4†*	12	36.00	26.46	AU3	21AP4	25	50.75	37.24
AU3	14EP4/14CP4/14BP4	14	29.25	21.56	AU3	21ATP4/21ATP4A†*	33	49.75	36.46
AU3	14HP4†	14	29.25	21.56	AU3	21AVP4/21AUP4†	33	42.00	30.90
AU3	14QP4A†*	10	38.00	27.76	AU3	21AVP4B/21AUP4B/21AVP4A/21AUP4A†*	33	49.75	36.46
AU3	14RP4	12	29.25	21.56	AU3	21AWP4*	33	48.00	35.15
AU3	14RP4A*	12	36.00	26.46	AU3	21BTP4†*	31	49.75	36.46
AU3	14WP4/14ZP4*	12	36.00	26.46	AU3	21CBP4A†*	33	49.75	36.46
AU3	16AP4A	17	48.25	35.41	AU3	21CEP4†*	28	55.00	40.38
AU3	16DP4A	23	45.75	33.64	AU3	21CWP4†*	31	49.75	36.46
AU3	16GP4B	16	48.25	35.41	AU4	21DAP4	26	55.00	40.38
AU3	16LP4A	25	44.50	32.66	AU3	21DFP4†*	33	55.00	40.38
AU3	16RP4/16KP4	21	33.25	24.50	AU3	21EP4A	36	42.00	30.90
AU3	16RP4A/16KP4A*	21	40.50	29.72	AU3	21EP4B*	34	49.75	36.46
AU3	16TP4	21	33.25	24.50	AU3	21FP4A†*	36	43.75	32.21
AU3	16WP4A	21	44.50	32.66	AU3	21FP4B†*	34	51.50	37.76
AU3	16ZP4	24	44.50	32.66	AU3	21KP4A†	34	54.75	40.25
AU3	17AVP4/17ATP4†	17	35.25	25.00	AU5	21MP4†	25	52.50	38.68
AU3	17AVP4A/17ATP4†*	17	42.50	31.04	AU3	21WP4	31	40.25	29.60
AU3	17BP4A†*	17	42.50	31.04	AU3	21WP4A*	31	48.00	35.28
AU3	17BP4A	21	33.25	24.50	AU3	21XP4A*	33	49.75	36.46
AU3	17BP4B*	21	40.50	29.72	AU3	21YP4†	33	42.00	30.90
AU3	17BVP4†*	14	47.75	34.95	AU3	21YP4A†*	33	49.75	36.46
AU3	17BZP4†*	14	47.75	34.82	AU3	21ZP4A	33	40.25	29.60
AU3	17CDP4†*	14	47.75	34.82	AU3	21ZP4B*	33	48.00	35.15
AU4	17CFP4†*	16	42.50	31.04	AZ3	24ADP4/24VP4A/24CP4A/24TP4	43	69.00	50.64
AU3	17CP4	16	43.75	32.14	AU3	24AP4†*	43	71.25	52.26
AU3	17GP4†	16	48.25	35.41	AZ3	24BP4†*	37	76.75	56.59
AU3	17HP4/17RP4†	23	35.25	25.80	AZ3	24DP4A/24YP4†*	43	71.25	52.26
AU3	17HP4B/17RP4C†*	23	42.50	31.04	AZ4	27EP4*	61	118.75	87.22
AU5	17KP4†	22	35.25	25.80	AZ3	27MP4*	42	163.50	126.49
AU3	17LP4/17VP4†	23	35.25	25.80	AZ4	27RP4*	61	118.75	87.22
AU3	17LP4A/17VP4B†*	23	42.50	31.04	AZ3	21AXP22A†* (Color)	38	160.00	137.20
AU3	17QP4	23	33.25	24.50	AZ3	21CVP22 (Color)	53	160.00	137.20
AU3	17QP4A*	23	40.50	29.72					
AU3	17TP4†	16	43.75	32.14					

WESTINGHOUSE 8" TV RECEIVER CHECK TUBE



- Fits Most Sets
- Self-focusing
- Saves Time

Here's an extremely versatile 8" rectangular universal picture tube — a great aid in television servicing. An exceptionally valuable time-saving accessory — permits testing television set without using the original picture tube. Provides a positive on-the-spot substitution test for questionable picture tubes and eliminates the necessity for taking the original picture tube back to shop for servicing. Even if it should prove necessary to take the chassis back for shop servicing, the check tube may remain in the customer's set until the chassis is returned. Whether used in shop or on home service calls, the check tube saves time and money by providing a quick means for locating CRT or yoke troubles. The check tube is completely self-focusing. It can be used in virtually all electromagnetically deflected television sets regardless of the deflection angle. For 53", 66", 70", or 90" yoke. No ion trap required. Ideal for electrostatic or magnetic-focus sets. The receiver check tube is lightweight and compact. A "must" for every TV service shop — a tremendous aid to the individual serviceman. Shpg. wt., 6 lbs.

AU5 8XP4. NET. 21.56

Model 8YP4 Receiver Check Tube. Same as above, but with 110" magnetic deflection. Shpg. wt., 6 lbs.

AU5 8YP4. NET. 28.91

SPECIAL AUDIO TUBES

High quality tubes, specifically designed to deliver outstanding performance in audio circuits. Many of the tubes listed below are very widely used in the newest and most advanced types of high-fidelity equipment. Because they are manufactured to conform to rigidly controlled specifications, you have complete assurance that they will be long-lasting and thoroughly reliable in operation. They are ideal as replacements for standard type tubes in hi-fi amplifiers and for other critical applications. Can be used to bring out the best in your existing equipment or for designing original equipment. Every tube guaranteed (except burnouts) for a full twelve months. *Directly interchangeable types. Other equivalent types listed may require slight wiring changes. *MP after Stock No. indicates matched pair.* Av. shpg. wt., 4 oz.

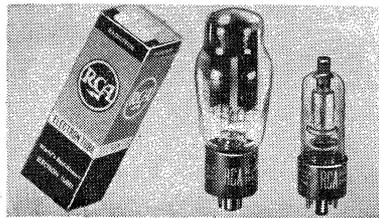


RCA			
Stock No.	Tube Type	Equip. Tube	NET EACH
E1-1614	1614	.....	3.11
E1-1620	1620	617	6.36
E1-1621	1621	6F6	2.40
E1-1622	1622	6L6	3.15
E1-5881	5881	6L6	3.50
AMPEREX			
E4-6CA7	6CA7*	EL34	3.60
E4-EL84	EL84*	6BQ5	1.20
E4-ECC81	ECC81*	12AT7	1.43
E4-ECC82	ECC82*	12AU7	1.15
E4-ECC83	ECC83*	12AX7	1.15
E4-EF86	EF86*	6267	1.45
GENALEX			
E3-KT66	KT66*	6L6	3.50
E3-Z729	Z729	5879	2.95
E3-KT88	KT88	.....	4.95
E3-KT88MP	KT88, Matched pr.	.....	11.65/Pr.
TUNGSOI			
E3-5881	5881*	6L6	3.50
E3-6550	6550	.....	4.95

Allied always has the latest in new tubes. As new tube types are released, Allied will stock them.

MULLARD			
Stock No.	Tube Type	Equip. Tube	NET EACH
E3-GZ32	GZ32	.....	3.19
E3-EL34	EL34*	6CA7	4.65
E3-EL34MP	EL34, Matched pr.	.....	10.05/Pr.
E3-GZ34	GZ34	5U4GA/B	3.15
E3-EL37	EL37	6L6	4.31
E3-EL37MP	EL37, Matched pr.	.....	9.38/Pr.
E3-EABC80	EABC80	6AK8	2.74
E3-EBF80	EBF80	6W8	2.25
E3-EZ80	EZ80	6V4	1.13
E3-ECH81	ECH81	6AJ8	2.63
E3-EZ81	EZ81	6BW4	1.23
E3-ECC81	ECC81*	12AT7	1.68
E3-ECC82	ECC82*	12AU7	1.38
E3-ECL82	ECL82	.....	2.63
E3-ECC83	ECC83*	12AXT	1.38
E3-EL84	EL84*	6BQ5	1.35
E3-EL84MP	EL84, Matched pr.	.....	3.90/Pr.
E3-ECC85	ECC85	6AQ4	1.71
E3-EF86	EF86*	6267	1.88
E3-EF89	EF89	.....	2.25
E3-EC90	EC90*	6C4	1.31
E3-90	90	6BE6	1.69
E3-EB91	EB91*	6AL5	1.09
E3-EC91	EC91*	6L6	1.99
E3-EF94	EF94*	6AU6	1.29

RCA Receiving Tubes



RCA RADIOTRONS—THE GREAT NAME IN ELECTRONIC TUBES. Premium-quality receiving tubes, universally known for their highly dependable performance. Purchasers of tubes in quantity lots may obtain RCA tube literature at no cost—see page 117 of Catalog No. 180 for literature. *Not made by RCA—other well-known brands supplied.

GUARANTEED FOR ONE FULL YEAR
You can be sure of complete satisfaction when you order receiving tubes from Allied. We will replace any tube listed on these pages that does not give efficient performance for 12 months from date of purchase. This does not apply to burned-out or broken tubes. Av. shpg. wt. per tube, 4 oz.; per 10 tubes, 2½ lbs.

Extra Savings When You Buy More Than 5 Tubes

The first net price column (1 to 5) is for orders of less than 6 tubes. If you buy 6 or more of any one type or assorted types (up to a total of 49), use the second net price column (6 to 49). For 50 tubes and over, use the third price column.

Tube Type	List Price	NET EACH In Quantities of:			Tube Type	List Price	NET EACH In Quantities of:		
		1 to 5	6 to 49	50 or More			1 to 5	6 to 49	50 or More
OZ4	\$1.65	.92	.81	.73	3Q5GT	\$3.60	2.01	1.76	1.58
OZ4G	2.00	1.12	.98	.88	354	2.45	1.37	1.20	1.08
1A3	3.05	1.70	1.49	1.34	3V4	2.35	1.31	1.15	1.03
1A5GT	3.20	1.79	1.57	1.41	4AU6	2.15	1.20	1.05	.94
1A7GT	3.70	2.07	1.81	1.63	4BC5*	2.35	1.31	1.15	1.03
1AH4*	2.95	1.65	1.44	1.30	4BC8	4.05	2.26	1.98	1.78
1AJ5*	3.10	1.73	1.52	1.37	4BN6	3.05	1.70	1.49	1.34
1AX2	3.05	1.70	1.49	1.34	4BQ7-A	4.00	2.23	1.96	1.76
1B3GT/1G3GT	2.90	1.62	1.43	1.29	4BS8	3.85	2.15	1.89	1.70
1C5GT	3.60	2.01	1.76	1.58	4BU8	2.80	1.56	1.37	1.23
1D8GT*	4.80	2.68	2.35	2.11	4BX8*	3.45	1.93	1.69	1.52
1DN5	2.20	1.23	1.08	.97	4BZ6	2.25	1.26	1.10	.99
1G4GT*	2.75	1.54	1.35	1.21	4BZ7	4.05	2.26	1.98	1.78
1H4C*	2.50	1.40	1.23	1.11	4CB6	2.30	1.29	1.13	1.02
1H5GT	3.05	1.70	1.49	1.34	4CS6*	2.35	1.31	1.15	1.03
1J3*	2.90	1.62	1.43	1.29	4CY6*	2.50	1.40	1.23	1.11
1J3GT*	2.90	1.62	1.43	1.29	4DT6	2.25	1.26	1.10	.99
1K3GT*	2.90	1.62	1.43	1.29	5AM8	3.20	1.79	1.57	1.41
1L4	2.60	1.45	1.27	1.14	5AN8	3.55	1.98	1.74	1.57
1L6	3.35	1.87	1.64	1.48	5AG5	2.20	1.23	1.08	.97
1LA4*	4.45	2.49	2.18	1.96	5AS4A	2.10	1.17	1.03	.93
1LA6	4.10	2.29	2.01	1.81	5AS8	3.45	1.93	1.69	1.52
1LB4	4.45	2.49	2.18	1.96	5AT8	3.25	1.82	1.59	1.43
1LC5	4.05	2.26	1.98	1.78	5AU4*	3.40	1.90	1.66	1.49
1LC6	4.10	2.29	2.01	1.81	5AV8	4.05	2.26	1.98	1.78
1LD5	4.25	2.37	2.08	1.87	5AW4*	2.50	1.40	1.23	1.11
1LE3	4.25	2.37	2.08	1.87	5AZ4	2.65	1.48	1.30	1.17
1LG5	4.05	2.26	1.98	1.78	5B8	3.90	2.18	1.91	1.72
1LH4	3.95	2.21	1.94	1.75	5BE8*	3.30	1.84	1.62	1.46
1LN5	3.95	2.21	1.94	1.75	5BK7A	3.40	1.90	1.66	1.49
1N5GT	3.65	2.04	1.79	1.61	5BQ7A	4.00	2.23	1.96	1.76
1Q5GT*	4.05	2.26	1.98	1.78	5BR8	3.30	1.84	1.62	1.46
1R5	2.55	1.43	1.25	1.12	5BT8	3.30	1.84	1.62	1.46
1S4	3.65	2.04	1.79	1.61	5CG8	3.25	1.82	1.59	1.43
1S5	2.55	1.43	1.25	1.12	5CL8	3.15	1.76	1.54	1.39
1T4	2.40	1.34	1.18	1.06	5CM8*	3.55	1.98	1.74	1.57
1U4	2.35	1.31	1.15	1.03	5CQ8	3.35	1.87	1.64	1.48
1U5	2.05	1.15	1.00	.90	5CZ5	2.85	1.59	1.40	1.26
1V	3.65	2.04	1.79	1.61	5DH8*	3.55	1.98	1.74	1.57
1V2	2.00	1.12	.98	.88	5J6	2.80	1.56	1.37	1.23
1V6*	3.75	2.10	1.84	1.66	5T4	7.25	4.05	3.56	3.20
1X2A	3.05	1.70	1.49	1.34	5T8	3.40	1.90	1.66	1.49
1X2B	3.05	1.70	1.49	1.34	5U4G*	2.05	1.15	1.00	.90
2A3	6.30	3.52	3.09	2.78	5U4GA*	2.00	1.12	.98	.88
2AF4-A	3.95	2.21	1.94	1.75	5U4-GB	2.00	1.12	.98	.88
2B3*	2.90	1.62	1.43	1.29	5U8	3.35	1.87	1.64	1.48
2BN4	2.55	1.43	1.25	1.12	5V3*	3.65	2.04	1.79	1.61
2CY5	2.80	1.56	1.37	1.23	5V4GA	3.30	1.84	1.62	1.46
2EA5*	2.80	1.56	1.37	1.23	5V6GT	2.20	1.23	1.08	.97
3A2	3.60	2.01	1.76	1.58	5X4G	2.95	1.65	1.44	1.30
3A3	3.40	1.90	1.66	1.49	5X8	3.30	1.84	1.62	1.46
3AF4A	4.05	2.26	1.98	1.78	5Y3GT	1.70	.95	.83	.75
3AL5	1.85	1.03	.91	.82	5Y4GT	2.35	1.31	1.15	1.03
3AU6	2.15	1.20	1.05	.94	5Z3	3.00	1.68	1.47	1.32
3AV6	1.75	.98	.86	.77	5Z4	4.55	2.54	2.23	2.01
3B2	6.20	3.46	3.04	2.74	6A3*	5.05	2.82	2.47	2.23
3BA6*	2.05	1.15	1.00	.90	6A6*	3.05	1.70	1.49	1.34
3BC5	2.30	1.29	1.13	1.02	6A7	4.60	2.57	2.25	2.03
3BN4*	2.55	1.43	1.25	1.12	6A8	4.75	2.65	2.33	2.10
3BN6	3.05	1.70	1.49	1.34	6A8G	4.75	2.65	2.33	2.10
3BU8	2.80	1.56	1.37	1.23	6A8GT	4.75	2.65	2.33	2.10
3BY6	2.35	1.31	1.15	1.03	6AB4	2.15	1.20	1.05	.94
3BZ6	2.35	1.31	1.15	1.03	6AB5/6N5	3.70	2.07	1.81	1.63
3CB6	2.25	1.26	1.10	.99	6AB7	5.00	2.79	2.45	2.20
3CF6	2.55	1.43	1.25	1.12	6AC5GT	4.35	2.43	2.13	1.92
3CS6	2.45	1.37	1.20	1.08	6AC7	4.05	2.26	1.98	1.78
3DK6*	2.40	1.34	1.18	1.06	6AD7G	5.90	3.30	2.89	2.60
3DT6	2.20	1.23	1.08	.97	6AF4-A	3.95	2.21	1.94	1.78
3LF4	4.20	2.35	2.06	1.85	6AF6G	3.60	2.01	1.76	1.58
3Q4	2.75	1.54	1.35	1.21	6AG5	2.60	1.45	1.27	1.14

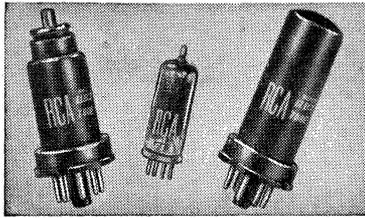
RCA Receiving Tubes

QUANTITY PRICES ALSO APPLY TO ASSORTED TUBES

Tube Type	List Price	NET EACH In Quantities of:			Tube Type	List Price	NET EACH In Quantities of:		
		1 to 5	6 to 49	50 or More			1 to 5	6 to 49	50 or More
6AG7	\$4.60	2.57	2.25	2.03	6CH8	\$3.60	2.01	1.76	1.58
6AH4GT	3.30	1.84	1.62	1.46	6CK4*	2.80	1.56	1.37	1.23
6AH6	4.60	2.57	2.25	2.03	6CL6	3.80	2.12	1.86	1.57
6AH6V*	4.65	2.60	2.28	2.05	6CL8	3.15	1.76	1.54	1.39
6AK5	4.65	2.60	2.28	2.05	6CM6	2.55	1.43	1.25	1.12
6AK6	2.85	1.59	1.40	1.26	6CM7	2.80	1.56	1.37	1.23
6AL5	1.85	1.03	.91	.82	6CM8*	3.55	1.98	1.74	1.57
6AL7GT	5.45	3.04	2.67	2.40	6CN7	2.60	1.45	1.27	1.14
6AM4	5.60	3.13	2.74	2.47	6CQ8	3.30	1.84	1.62	1.46
6AM8A	3.25	1.82	1.59	1.43	6CR6	2.40	1.34	1.18	1.06
6AN4	4.95	2.77	2.43	2.19	6CS6	2.35	1.31	1.15	1.03
6AN8	3.50	1.96	1.72	1.55	6CS7	2.80	1.56	1.37	1.23
6AQ5A	2.15	1.20	1.05	.94	6CU5	2.30	1.29	1.13	1.02
6AQ6	2.20	1.23	1.08	.97	6CU6/6BQ6GA*	4.35	2.43	2.13	1.92
6AQ7GT	4.00	2.23	1.96	1.76	6CU8	3.65	2.04	1.79	1.61
6AR5	2.60	1.45	1.27	1.14	6CX8*	3.65	2.04	1.79	1.61
6AS5	2.40	1.34	1.18	1.06	6CY5	2.75	1.54	1.35	1.21
6AS8	3.30	1.84	1.62	1.46	6CY7*	2.95	1.65	1.44	1.30
6AT6	1.90	1.06	.93	.84	6CZ5	2.80	1.56	1.37	1.23
6AT8A	3.20	1.79	1.57	1.41	6D6	4.35	2.43	2.13	1.92
6AU4GTA	3.35	1.87	1.64	1.48	6DA4*	2.70	1.51	1.32	1.19
6AU5GT	4.25	2.37	2.08	1.87	6DB5*	2.70	1.51	1.32	1.19
6AU6	2.10	1.17	1.03	.93	6DC6	2.75	1.54	1.35	1.21
6AU6A*	2.10	1.17	1.03	.93	6DE6	2.45	1.37	1.20	1.08
6AU8	3.45	1.93	1.69	1.52	6DG6GT	2.55	1.43	1.25	1.12
6AV5GA	3.80	2.12	1.86	1.67	6DK6*	2.35	1.31	1.15	1.03
6AV6	1.65	.92	.81	.73	6DN6*	6.25	3.49	3.06	2.75
6AW8A	3.55	1.98	1.74	1.57	6DQ5	7.65	4.27	3.75	3.37
6AX4GT	2.65	1.48	1.30	1.17	6DQ6-A	4.15	2.32	2.03	1.87
6AX5GT	2.90	1.62	1.43	1.29	6DS5	2.65	1.48	1.30	1.17
6AX8*	3.50	1.96	1.72	1.55	6DT5*	2.90	1.62	1.43	1.29
6AZ8	4.20	2.35	2.06	1.85	6DT6	2.15	1.20	1.05	.94
6B7*	3.70	2.07	1.81	1.63	6DT8	3.75	2.10	1.84	1.66
6B8	4.70	2.63	2.30	2.07	6E5	3.00	1.68	1.47	1.32
6BA6	2.05	1.15	1.00	.90	6EA8*	3.15	1.76	1.54	1.39
6BA7	3.65	2.04	1.79	1.61	6EH5	2.35	1.31	1.15	1.03
6BA8A	3.70	2.07	1.81	1.63	6F5	3.10	1.73	1.52	1.37
6BC4	4.80	2.68	2.35	2.11	6F6	3.60	2.01	1.76	1.58
6BC5	2.30	1.29	1.13	1.02	6F6G	3.60	2.01	1.76	1.58
6BC7	3.80	2.12	1.86	1.67	6F6GT	3.65	2.04	1.79	1.61
6BC8	3.95	2.21	1.94	1.75	6F7	6.65	3.71	3.26	2.93
6BD6	2.30	1.29	1.13	1.02	6F8G	5.10	2.85	2.50	2.25
6BE6	2.25	1.26	1.10	.99	6G6G	4.05	2.26	1.98	1.78
6BF5	2.75	1.54	1.35	1.21	6H6	2.75	1.54	1.35	1.21
6BF6	1.80	1.01	.88	.79	6J5	2.55	1.43	1.25	1.12
6BG6G	6.45	3.60	3.16	2.84	6J5GT	2.55	1.43	1.25	1.12
6BG6GA	6.45	3.60	3.16	2.84	6J6	2.80	1.56	1.37	1.23
6BH6	2.70	1.51	1.32	1.19	6J6A*	2.80	1.56	1.37	1.23
6BH8	3.45	1.93	1.69	1.52	6J7	3.65	2.04	1.79	1.61
6BJ6	2.55	1.43	1.25	1.12	6J7GT	3.65	2.04	1.79	1.61
6BJ8	2.90	1.62	1.43	1.29	6K6GT*	3.00	1.68	1.47	1.32
6BK4	7.50	4.18	3.68	3.31	6K6GT	2.30	1.29	1.13	1.02
6BK5	3.50	1.96	1.72	1.55	6K7	3.75	2.10	1.84	1.66
6BK7B	3.35	1.87	1.64	1.48	6K7GT	3.75	2.10	1.84	1.66
6BL7GTA	3.95	2.21	1.94	1.75	6K8	4.45	2.49	2.18	1.96
6BN4	2.50	1.40	1.23	1.11	6L6	6.10	3.41	2.99	2.69
6BN6	3.05	1.70	1.49	1.34	6L6GB	4.20	2.35	2.06	1.85
6BN8	2.70	1.51	1.32	1.19	6L7	4.35	2.43	2.13	1.92
6BQ5	2.60	1.45	1.27	1.14	6N7	4.00	2.23	1.96	1.76
6BQ6GTB/6CU6	4.35	2.43	2.13	1.92	6N7GT	4.35	2.43	2.13	1.92
6BQ7A	3.95	2.21	1.94	1.75	6P5GT*	2.80	1.56	1.37	1.23
6BR8	3.30	1.84	1.62	1.46	6Q7	3.40	1.90	1.66	1.49
6BS8	3.75	2.10	1.84	1.66	6Q7GT	3.20	1.79	1.57	1.41
6BU8	2.80	1.56	1.37	1.23	6R7	3.60	2.01	1.76	1.58
6BV8*	2.90	1.62	1.43	1.29	6R8*	3.85	2.15	1.89	1.70
6BW4*	1.85	1.03	.91	.82	6S4-A	2.05	1.15	1.00	.90
6BW8*	3.30	1.84	1.62	1.46	6S7	4.20	2.35	2.06	1.85
6BX7GT	4.00	2.23	1.96	1.76	6S8GT	2.75	1.54	1.35	1.21
6BY5-GA	4.20	2.35	2.06	1.85	6SA7	3.25	1.82	1.59	1.43
6BY6	2.30	1.29	1.13	1.02	6SA7GT	3.25	1.82	1.59	1.43
6BY8	2.65	1.48	1.30	1.17	6SB7Y	4.50	2.51	2.21	1.99
6BZ6	2.25	1.26	1.10	.99	6SC7	3.10	1.73	1.52	1.37
6BZ7	3.95	2.21	1.94	1.75	6SD7GT*	4.05	2.26	1.98	1.78
6BZ8/X155*	4.25	2.37	2.08	1.87	6SF5	2.70	1.51	1.32	1.19
6C4	1.80	1.01	.88	.79	6SF5GT	3.20	1.79	1.57	1.41
6C5	2.75	1.54	1.35	1.21	6SF7	3.90	2.18	1.91	1.72
6C5GT	2.90	1.62	1.43	1.29	6SG7	3.45	1.93	1.69	1.52
6C6	4.35	2.43	2.13	1.92	6SH7	3.50	1.96	1.72	1.55
6C8G	5.10	2.85	2.50	2.25	6SJT	2.75	1.54	1.35	1.21
6CB5A	7.50	4.18	3.68	3.31	6SJTGT	3.20	1.79	1.57	1.41
6CB6	2.25	1.26	1.10	.99	6SK7	3.05	1.70	1.49	1.34
6CB6A*	2.25	1.26	1.10	.99	6SK7GT	3.05	1.70	1.49	1.34
6CD6GA	5.80	3.24	2.84	2.56	6SL7GT	3.25	1.82	1.59	1.43
6CE5*	2.35	1.31	1.15	1.03	6SN7GTA*	2.60	1.45	1.27	1.14
6CF6	2.55	1.43	1.25	1.12	6SN7GTB	2.65	1.48	1.30	1.17
6CG7	2.45	1.37	1.20	1.08					
6CG8A	3.15	1.76	1.54	1.39					

RECEIVING TUBES CONTINUED ON NEXT PAGE

RCA Receiving Tubes



TUBE LISTINGS CONTINUED FROM PAGES 114 AND 115

Extra Savings When You Buy More Than 5 Tubes

The first net price column (1 to 5) is for orders of less than 6 tubes. If you buy 6 or more tubes of any one type or assorted types (and up to a total of 49), use the prices in the second net price column (6 to 49). For 50 tubes and over, use the third price column (50 or More).

Tube Type	List Price	NET EACH In Quantities of:			Tube Type	List Price	NET EACH In Quantities of:		
		1 to 5	6 to 49	50 or More			1 to 5	6 to 49	50 or More
6SQ7	\$2.70	1.51	1.32	1.19	12AE7*	\$3.10	1.73	1.52	1.37
6SQ7GT	2.70	1.51	1.32	1.19	12AF6	2.25	1.26	1.10	.99
6SR7	2.70	1.51	1.32	1.19	12AF6A*	2.25	1.26	1.10	.99
6SS7	3.45	2.93	1.69	1.52	12AH7GT	3.80	2.12	1.86	1.67
6T4	4.25	2.37	2.08	1.87	12AJ6	1.70	.95	.83	.75
6T8*	3.35	1.87	1.64	1.48	12AL5	1.90	1.06	.93	.84
6T8A	3.35	1.87	1.64	1.48	12AL8	4.05	2.26	1.98	1.78
6U5	3.20	1.79	1.57	1.41	12AQ5	2.40	1.34	1.18	1.06
6U7G*	2.55	1.43	1.25	1.12	12AT6	1.85	1.03	.91	.82
6U8A	3.30	1.84	1.62	1.46	12AT7	3.05	1.70	1.49	1.34
6V3A	4.35	2.43	2.13	1.92	12AU6	2.15	1.20	1.05	.94
6V6	4.35	2.43	2.13	1.92	12AU7A	2.45	1.37	1.20	1.08
6V6GT	2.15	1.20	1.05	.94	12AV5GA	3.85	2.15	1.89	1.70
6V8*	3.95	2.21	1.94	1.75	12AV6	1.65	.92	.81	.73
6W4GT	2.40	1.34	1.18	1.06	12AV7	3.20	1.79	1.57	1.41
6W6GT	2.85	1.59	1.40	1.26	12AW6	3.00	1.68	1.47	1.32
6X4	1.65	.92	.81	.73	12AX4-GTA	2.60	1.45	1.27	1.14
6X5GT	2.05	1.15	1.00	.90	12AX7	2.50	1.40	1.23	1.11
6X8	3.20	1.79	1.57	1.41	12AY7	5.15	2.88	2.52	2.27
6Y6G	4.50	2.51	2.21	1.99	12AZ7	2.75	1.54	1.35	1.21
7A4	3.25	1.82	1.59	1.43	12B4-A	2.70	1.51	1.32	1.19
7A5	3.85	2.15	1.89	1.70	12BA6	2.00	1.12	.98	.88
7A6	3.15	1.76	1.54	1.39	12BA7	3.95	2.21	1.94	1.75
7A7	3.50	1.96	1.72	1.55	12BD6	2.25	1.26	1.10	.99
7A8	4.45	2.49	2.18	1.96	12BE6	2.15	1.20	1.05	.94
7AD7	6.45	3.60	3.16	2.84	12BF6	1.80	1.01	.88	.79
7AF7	3.85	2.15	1.89	1.70	12BH7-A	3.05	1.70	1.49	1.34
7AG7	3.85	2.15	1.89	1.70	12BK5	3.80	2.12	1.86	1.67
7AH7	3.85	2.15	1.89	1.70	12BL6	4.15	1.20	1.05	.94
7AU7	2.65	1.48	1.30	1.17	12BQ6GTB/12CU6	4.45	2.49	2.18	1.96
7B4	3.05	1.70	1.49	1.34	12BR7	2.60	1.45	1.27	1.14
7B5	4.75	2.65	2.33	2.10	12BV7	3.05	1.70	1.49	1.34
7B6	3.25	1.82	1.59	1.43	12BY7-A	3.10	1.73	1.52	1.37
7B7	3.30	1.84	1.62	1.46	12BZ7	3.05	1.70	1.49	1.34
7B8	3.55	1.98	1.74	1.57	12C5/12CU5*	2.35	1.31	1.15	1.03
7C4*	5.00	2.79	2.45	2.20	12C8	5.65	3.16	2.77	2.49
7C5	3.35	1.87	1.64	1.48	12CA5	2.50	1.40	1.23	1.11
7C6	3.30	1.84	1.62	1.46	12CN5	2.25	1.26	1.10	.99
7C7	3.05	1.70	1.49	1.34	12CR6	2.40	1.34	1.18	1.06
7E5*	4.05	2.26	1.98	1.78	12CT8*	4.05	2.26	1.98	1.78
7E6*	4.05	2.26	1.98	1.78	12CU5	2.35	1.31	1.15	1.03
7E7	4.45	2.49	2.18	1.96	12CU6/12BQ6GA*	4.45	2.49	2.18	1.96
7F7	3.65	2.04	1.79	1.61	12CX6	2.25	1.26	1.10	.99
7F8	4.60	2.57	2.25	2.03	12D4	2.75	1.54	1.35	1.21
7G7	4.00	2.23	1.96	1.76	12DB5*	2.75	1.54	1.35	1.21
7H7	3.90	2.18	1.91	1.72	12DE8*	2.90	1.62	1.43	1.29
7J7	5.15	2.88	2.52	2.27	12DF7*	2.60	1.45	1.27	1.14
7K7	4.45	2.49	2.18	1.96	12DK7*	2.95	1.65	1.44	1.30
7L7*	4.25	2.37	2.08	1.87	12DL8	3.90	2.18	1.91	1.72
7N7	3.40	1.90	1.66	1.49	12DQ6-A	4.25	2.37	2.08	1.87
7Q7	4.10	2.29	2.01	1.81	12DS7	3.50	1.96	1.72	1.55
7R7	5.15	2.88	2.52	2.27	12DT5*	2.95	1.65	1.44	1.30
7V7	4.65	2.60	2.28	2.05	12DT7*	2.90	1.62	1.43	1.29
7W7	4.75	2.65	2.33	2.10	12DT8	3.75	2.10	1.84	1.66
7X7	5.85	3.27	2.87	2.58	12DW8*	3.10	1.73	1.52	1.37
7Y4	2.75	1.54	1.35	1.21	12DZ6	2.30	1.29	1.13	1.02
7Z4	2.75	1.54	1.35	1.21	12EH5	2.35	1.31	1.15	1.03
8AU8*	3.55	1.98	1.74	1.57	12EK6	2.30	1.29	1.13	1.02
8AW8A	3.70	2.07	1.81	1.63	12EM6*	2.90	1.62	1.43	1.29
8B8A*	3.65	2.04	1.79	1.61	12EN6*	2.70	1.51	1.32	1.19
8BH8*	3.55	1.98	1.74	1.57	12F8	2.60	1.45	1.27	1.14
8CG7	2.50	1.40	1.23	1.11	12H6	2.75	1.54	1.35	1.21
8CM7	2.85	1.59	1.40	1.26	12J5GT	2.70	1.51	1.32	1.19
8CN7*	2.60	1.45	1.27	1.14	12J7GT	4.20	2.35	2.06	1.85
8CS7*	2.95	1.65	1.44	1.30	12J8	3.30	1.84	1.62	1.46
8CX8*	3.70	2.07	1.81	1.63	12K5	2.75	1.54	1.35	1.21
9CL8*	3.15	1.76	1.54	1.39	12K7GT	4.05	2.26	1.98	1.78
9UB8*	3.30	1.84	1.62	1.46	12K8	4.75	2.65	2.33	2.10
10C8*	4.25	2.37	2.08	1.87	12L6GT	2.50	1.40	1.23	1.11
10DE7	2.95	1.65	1.44	1.30	12Q7GT	3.30	1.84	1.62	1.46
12A8GT	4.75	2.65	2.33	2.10	12R5	2.60	1.45	1.27	1.14
12AB5	2.45	1.37	1.20	1.08	12S8GT*	2.90	1.62	1.43	1.29
12AC6*	2.20	1.23	1.08	.97	12SA7	3.25	1.82	1.59	1.43
12AD6	2.25	1.26	1.10	.99	12SA7GT	3.25	1.82	1.59	1.43
12AE6	1.85	1.03	.91	.82	12SC7	3.30	1.84	1.62	1.46

RCA Receiving Tubes

QUANTITY PRICES ALSO APPLY TO ASSORTED TUBES

Tube Type	List Price	NET EACH In Quantities of:			Tube Type	List Price	NET EACH In Quantities of:		
		1 to 5	6 to 49	50 or More			1 to 5	6 to 49	50 or More
12SF5	\$2.75	1.54	1.35	1.21	25L6	\$5.80	3.24	2.84	2.56
12SF5GT*	2.70	1.51	1.32	1.19	25L6GT	2.25	1.26	1.10	.99
12SF7	3.95	2.21	1.94	1.75	25W4GT	2.70	1.51	1.32	1.19
12SG7	3.30	1.84	1.62	1.46	25W6GT*	2.90	1.62	1.43	1.29
12SH7	3.60	2.01	1.76	1.58	25Z5	2.90	1.62	1.43	1.29
12SJ7	2.90	1.62	1.43	1.29	25Z6GT	2.90	1.62	1.43	1.29
12SJ7GT*	3.20	1.79	1.57	1.41	26*	4.35	2.43	3.13	1.92
12SK7	3.05	1.70	1.49	1.34	27	4.35	2.43	3.13	1.92
12SK7GT	3.05	1.70	1.49	1.34	35/51*	4.35	2.43	3.13	1.92
12SL7GT	3.75	2.10	1.84	1.66	35A5	3.50	1.96	1.72	1.55
12SN7GT	2.70	1.51	1.32	1.19	35B5	2.65	1.48	1.30	1.17
12SN7GTA*	2.70	1.51	1.32	1.19	35C5	2.15	1.20	1.05	.94
12SQ7	2.65	1.48	1.30	1.17	35L6GT	2.45	1.37	1.20	1.08
12SQ7GT	2.65	1.48	1.30	1.17	35W4	1.40	.78	.69	.62
12SR7	2.80	1.56	1.37	1.23	35Y4	2.75	1.54	1.35	1.21
12V6GT	2.15	1.20	1.05	.94	35Z3	2.75	1.54	1.35	1.21
12W6GT	3.00	1.68	1.47	1.32	35Z4GT	2.35	1.31	1.15	1.03
12X4	1.80	1.01	.88	.79	35Z5GT	1.85	1.03	.91	.82
12Z3*	3.50	1.96	1.72	1.55	36*	4.35	2.43	2.13	1.92
13DR7*	2.95	1.65	1.44	1.30	37*	3.80	2.12	1.86	1.67
14A7	3.50	1.96	1.72	1.55	38*	4.35	2.43	2.13	1.92
14AF7	3.80	2.12	1.86	1.67	41	3.50	1.96	1.72	1.55
14B6	3.30	1.84	1.62	1.46	42	3.45	1.93	1.69	1.52
14C7	3.35	1.87	1.64	1.48	43	4.70	2.63	2.30	2.07
14F7	3.85	2.15	1.89	1.70	47	8.70	4.86	4.26	3.83
14F8	4.60	2.57	2.25	2.03	50A5	3.95	2.21	1.94	1.75
14Q7	4.10	2.29	2.01	1.81	50B5	2.65	1.48	1.30	1.17
14R7	5.15	2.88	2.52	2.27	50C5	2.15	1.20	1.05	.94
17AX4GT	2.70	1.51	1.32	1.19	50E5	2.30	1.29	1.13	1.02
17BQ6GTB	4.60	2.57	2.25	2.03	50L6GT	2.45	1.37	1.20	1.08
17C5*	2.35	1.31	1.15	1.03	50X6	3.20	1.79	1.57	1.41
17D4GT*	2.75	1.54	1.35	1.21	50Y6GT	2.95	1.65	1.44	1.30
17DQ6A	4.25	2.37	2.08	1.87	50Y7GT	3.05	1.70	1.49	1.34
17H3*	1.95	1.09	.96	.86	56*	4.60	2.43	2.17	1.92
18A5*	3.75	2.10	1.84	1.66	57*	2.35	2.43	2.13	1.92
19*	3.70	2.07	1.81	1.63	58*	4.35	2.43	2.13	1.92
19AU4	3.50	1.96	1.72	1.55	70L7GT	10.15	5.66	4.98	4.48
19AU4GTA*	3.45	1.93	1.69	1.52	71A*	5.10	2.85	2.50	2.25
19BG6-GA	6.50	3.63	3.19	2.87	75	5.10	2.85	2.50	2.25
19C8*	4.45	2.49	2.18	1.96	76*	1.80	1.01	.88	.79
19J6	3.15	1.76	1.54	1.39	78	5.10	2.85	2.50	2.25
19T8	3.35	1.87	1.64	1.48	80	2.90	1.62	1.43	1.29
19X8	3.70	2.07	1.81	1.63	84/6Z4	2.70	1.51	1.32	1.19
21EX6*	5.70	3.18	2.79	2.51	85*	4.35	2.43	2.13	1.92
24A	4.15	2.32	2.03	1.83	117L7/117M7GT	10.15	5.66	4.98	4.48
25AV5GA*	3.80	2.12	1.86	1.67	117N7GT	9.30	5.19	4.56	4.10
25AX4GT	2.90	1.62	1.43	1.29	117P7GT	9.30	5.19	4.56	4.10
25BK5*	3.65	2.04	1.79	1.61	117Z3	2.50	1.40	1.23	1.11
25BQ6GTB/25CU6	4.60	2.57	2.25	2.03	117Z6GT	4.35	2.43	2.13	1.92
25C5	2.15	1.20	1.05	.94	5642*	5.00	2.79	2.45	2.20
25CA5*	2.50	1.40	1.23	1.11	5879	3.85	2.15	1.89	1.70
25CD6GB	5.85	3.27	2.87	2.58	5881	6.25	3.49	3.06	2.75
25DN6	5.55	3.10	2.72	2.45	6973	4.50	2.51	2.21	1.99
25EC6*	5.70	3.18	2.79	2.51	7025	2.95	1.65	1.44	1.30
25EH5	2.30	1.29	1.13	1.02	7027	5.25	2.93	2.57	2.31

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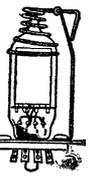
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41 H 123	560	1 1/2"	6AJ5, 6AK5, 6AL5, 6AS6, 6N4, etc.	26c
41 H 124	563	1 1/2"	12AT7, 12AU7, etc.	26c

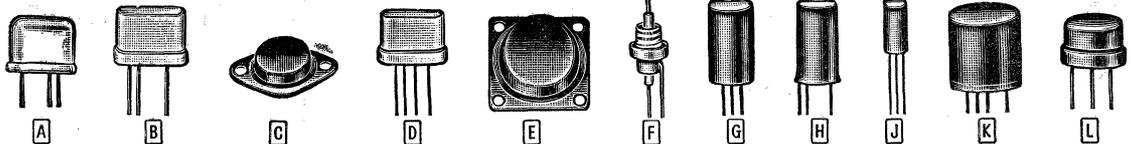
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EXPLANATION OF COLUMN HEADINGS AND SYMBOLS

Column Headings: P_t indicates Max. Collector Dissipation @ 25° except ††80° C. BV indicates Breakdown Voltage. I_c indicates Max. Collector Current. F_a indicates Alpha Cut-Off Frequency, except †min. cut-off.

Symbols: †silicon; †silicon in JEDEC can; all others germanium *RCA drift type. Av. shpg. wt., 2 oz. **For prices on quantity lots of 100 or more, write Allied's Industrial Division.

TEXAS INSTRUMENT

Stock No.	Type	Fig.	P _t Mw	BV V	I _c Ma	F _a Mc	Description	NET EACH	
								1-99	100-249
8E C 128	2N117†	A	150	45	25	2†	Small signal; NPN	10.00	6.65
8E C 129	2N118†	A	150	45	25	8†	Small signal; NPN	16.95	11.30
8E C 130	2N118A†	A	150	45	25	8†	Small signal; NPN	16.95	11.30
8E C 131	2N119†	A	150	45	25	2†	Small signal; NPN	22.05	14.70
8E C 238	2N120†	A	150	45	25	7	Small signal; NPN	25.60	17.05
8E 110	2N145	A	65	20	5	.....	IF converter; NPN	2.75	**
8E 111	2N146	A	65	20	5	.....	IF converter; NPN	3.20	**
8E 112	2N147	A	65	20	5	.....	IF converter; NPN	3.60	**
8E C 109	2N172	A	65	16	5	.....	IF converter; NPN	2.45	**
8E 104	2N185	A	150	-20	-150	.....	Audio; PNP	1.45	**
8E 105	2N238	A	50	-20	.....	.....	Audio; PNP	1.40	**
8E C 135	2N243†	.....	750	60	60	.....	Med. power; NPN	21.40	14.25
8E C 136	2N244†	.....	750	60	60	.....	Med. power; NPN	31.20	20.80
8E 116	2N248	C	30	-25	-5	50	HF; PNP	4.90	**
8E 106	2N250	C	25W	-30	-3A	.....	Power; PNP	2.80	**
8E 107	2N251	C	25W	-60	-3A	.....	Power; PNP	2.40	**
8E C 100	2N252	A	30	-16	-5	.....	IF converter; PNP	2.90	**
8E 113	2N253	A	65	12	5	.....	IF converter; PNP	3.15	**
8E 114	2N254	A	65	20	5	.....	IF converter; NPN	2.60	**
8E 108	2N294	A	300	-25	-200	.....	Audio; PNP	1.45	**
8E 101	2N308	A	30	-20	-5	.....	IF converter; PNP	2.75	**
8E 102	2N309	A	30	-20	-5	.....	IF converter; PNP	2.90	**
8E 103	2N310	A	30	-30	-5	.....	IF converter; PNP	2.90	**
8E 183	2N323‡	L	150	45	25	1†	Small signal; NPN	9.45	6.30
8E C 184	2N333‡	L	150	45	25	2†	Small signal; NPN	16.20	10.80
8E C 185	2N334‡	L	150	45	25	8†	Small signal; NPN	16.20	10.80
8E C 186	2N335‡	L	150	45	25	2†	Small signal; NPN	21.60	14.40
8E C 187	2N336‡	L	150	45	25	7	Small signal; NPN	25.60	17.05
8E C 188	2N337‡	L	125	40	20	10†	Switching; NPN	19.15	12.75
8E C 189	2N338‡	L	125	45	25	7†	Switching; NPN	25.80	17.20
8E C 190	2N339‡	K	1000	55	60	.....	Med. power; NPN	19.80	13.20
8E C 191	2N340‡	K	1000	85	50	.....	Med. power; NPN	19.95	13.30
8E C 192	2N341‡	K	1000	125	40	.....	Med. power; NPN	24.00	16.00
8E C 193	2N342‡	K	1000	60	60	.....	Med. power; NPN	31.15	20.70
8E C 194	2N343‡	K	1000	60	60	.....	Med. power; NPN	30.75	20.50
8E 118	2N364	A	150	30	5.0	2.5	Gen. purpose; NPN	2.40	**
8E 119	2N365	A	150	30	5.0	3	Gen. purpose; NPN	3.55	**
8E 120	2N366	A	150	30	3.5	.....	Gen. purpose; NPN	5.95	**
8E 121	2N367	A	150	30	5.0	7	Gen. purpose; NPN	1.55	**
8E 122	2N368	A	150	30	-50	1	Gen. purpose; PNP	2.10	**
8E 123	2N369	A	150	30	-50	1.3	Gen. purpose; PNP	2.40	**
8E C 216	2N382‡	E	85	60	2A	.....	High power; NPN	69.00	46.00
8E C 218	2N427‡	E	85	80	2A	.....	High power; NPN	55.20	36.80
8E 220	2N456	C	50W	-40	-5A	.....	Power; PNP	4.00	**
8E 221	2N457	C	50W	-60	-5A	.....	Power; PNP	5.60	**
8E 234	2N458	C	50W	-80	-5A	.....	Power; PNP	12.40	**
8E 227	2N497‡	L	4W	60	200	10	Med. power; NPN	24.10	16.05
8E 228	2N498‡	L	4W	100	200	14	Med. power; NPN	30.75	20.50
8E C 233	2N623	L	4W	60	200	90	HF; PNP	12.50	**
8E C 235	2N656‡	L	4W	60	200	10	Med. power; NPN	26.85	17.90
8E C 236	2N657‡	L	4W	100	200	14	Med. power; NPN	34.25	22.95
8E C 117	3N25	L	25	-15	-2	200	VHF tetrole; PNP	16.00	**
8E C 195	3N32‡	L	125	30	10	.....	HF; PNP	25.05	16.70
8E C 196	3N33‡	L	125	30	10	.....	HF; PNP	31.05	20.70
8E C 197	3N34‡	L	125	30	10	.....	HF; PNP	29.20	19.45
8E C 219	3N35‡	L	125	30	10	100	HF; NPN	31.50	21.00
8E 237	204A	A	150	60	50	2.5	Gen. purpose; NPN	4.80	**
8E 115	800	B	65	20	5	.....	Photo-transistor; NPN	10.40	**
8E C 124	903‡	A	150	30	25	1†	Small signal; NPN	10.15	6.75
8E C 125	904‡	A	150	30	25	2†	Small signal; NPN	17.10	11.40
8E C 126	904A‡	A	150	30	25	8†	Small signal; NPN	17.10	11.40
8E C 127	905‡	A	150	30	25	2†	Small signal; NPN	23.40	15.60
8E C 217	910‡	A	150	30	25	7	Small signal; NPN	26.25	17.50
8E C 132	951‡	.....	750	50	60	.....	Med. power; NPN	20.85	13.90
8E C 133	952‡	.....	750	80	50	.....	Med. power; NPN	22.15	14.10
8E C 134	953‡	.....	750	120	40	.....	Med. power; NPN	21.95	15.30
8E C 137	970‡	.....	8.75W	120	140	.....	Power; NPN	60.00	40.00

HUGHES

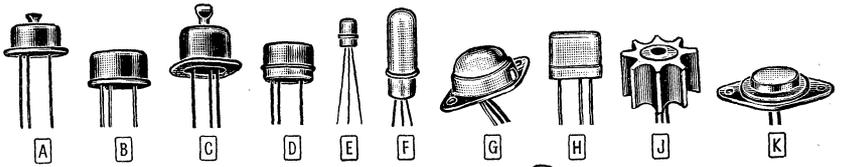
"High-temperature" transistors have coaxial leads which permit maximum flow of heat through the silicon crystal while providing extremely sturdy internal structure. For audio, switching and control circuitry at medium power levels. Feature 500 mw dissipation at 25° C. in free air; low saturation resistance, low collector and emitter cut-off current and high maximum voltages. Av. wt., 2 oz.

RCA

Stock No.	Type	Fig.	P _t Mw	BV V	I _c Ma	F _a Mc	Description	NET EACH	
								1-99	100-249
5E 855	2N77	G	35†	-25	-15	0.7	Audio; PNP	1.86	
5E 854	2N104	H	150	-30	-50	0.7	Audio; PNP	2.25	
5E 856	2N105	J	35†	-25	-15	0.75	Audio; PNP	2.90	
5E 857	2N109	H	150	-25	-70	.....	Audio; PNP	1.70	
5E 858	2N139	H	80	-16	-15	68	IF; PNP	1.93	
5E 859	2N140	H	80	-16	-15	.....	Converter; PNP	2.06	
5E 860	2N175	H	50	-10	-2	0.85	Audio; PNP	2.42	
5E 894	2N206	G	75	-30	-50	0.78	Audio; PNP	5.47	
5E 876	2N215	G	.....	.....	.....	.....	Same as 2N104 but has flexible leads	2.09	
5E 877	2N217	G	.....	.....	.....	.....	Same as 2N109 but has flexible leads	1.70	
5E 878	2N218	G	.....	.....	.....	.....	Same as 2N139 but has flexible leads	1.93	
5E 879	2N219	G	.....	.....	.....	.....	Same as 2N140 but has flexible leads	2.06	
5E 884	2N220	G	.....	.....	.....	.....	Same as 2N175 but has flexible leads	2.25	
5E 885	2N247*	K	80	-35	-10	30	RF; PNP	3.22	
5E 886	2N269	K	120	-20	-100	12	Switching; PNP	3.78	
5E 895	2N270	K	250	-25	150	.....	Audio; PNP	1.89	
5E 888	2N274*	C	80	-35	-10	30	RF; PNP	3.22	
5E 897	2N301	C	11W††	40	-2A	.....	Power; PNP	2.57	
5E 893	2N301A	C	11W††	-60	-2A	.....	Power; PNP	4.83	
5E 967	2N351	C	10W††	-40	-3A	.....	Power; PNP	3.22	
5E 974	2N356	L	100	20	500	3	Switching; NPN	5.64	
5E 975	2N357	L	100	20	500	6	Switching; NPN	7.08	
5E 976	2N358	L	100	20	500	9	Switching; NPN	9.66	
5E 961	2N370*	K	80	-20	-10	30	RF; PNP	3.22	
5E 962	2N371*	K	80	-20	-10	30	Osc.; PNP	3.22	
5E 963	2N372*	K	80	-20	-10	30	Mixer; PNP	3.22	
5E 969	2N373*	K	80	-25	-10	30	IF; PNP	2.25	
5E 971	2N374*	K	80	-25	-10	30	Converter; PNP	2.33	
5E 968	2N376	C	10W††	-40	-3A	.....	Power; PNP	3.38	
5E 969	2N384*	G	120	-30	-100	100	VHF; PNP	6.44	
5E 977	2N388	L	150	-105	-100	.....	Switching; PNP	4.03	
5E 898	2N404	L	120	-25	100	12	Switching; PNP	4.03	
5E 965	2N405	H	150	-12	-70	.....	Audio; PNP	1.13	
5E 999	2N406	G	.....	.....	.....	.....	Same as 2N405, but has flexible leads	1.13	
5E 953	2N407	H	150	-20	-70	.....	Audio; PNP	1.36	
5E 950	2N408	G	.....	.....	.....	.....	Same as 2N407 but has flexible leads	1.36	
5E 954	2N409	H	80	-12	-15	6.8	IF; PNP	1.61	
5E 951	2N410	G	.....	.....	.....	.....	Same as 2N409 but has flexible leads	1.61	
5E 955	2N411	H	80	-12	-15	10	Converter; PNP	1.70	
5E 952	2N412	G	.....	.....	.....	.....	Same as 2N411 but has flexible leads	1.70	
5E 970	2N544	K	80	-18	-10	30	RF; PNP	2.42	
5E 977	2N578	L	120	-20	-400	5	Switching; PNP	4.99	
5E 978	2N579	L	120	-20	-400	8	Switching; PNP	7.08	
5E 982	2N580	L	120	-20	-400	15	Switching; PNP	9.57	
5E 979	2N581	L	80	-18	-100	8	Switching; PNP	3.06	
5E 983	2N582	L	120	-25	100	18	Switching; PNP	7.25	
5E 980	2N583	G	80	-18	-100	18	Switching		

Latest Transistors

COLUMN HEADS AND SYMBOLS:
 P₁: Max. Collector Diss. at 25° C. except §30° C.; †40° C.; **50° C.; ††80° C. BV: Breakdown Voltage; Ic: Collector Current; Fa: Typical Alpha Cut-Off Freq. except *Max.; ††Min. †Military-Approved. †Surface Barrier. All are germanium except ††silicon. ††Heat sink. 2 oz.



GENERAL ELECTRIC

Stock No.	Type	Fig.	Pt Mw	BV V	Ic Ma	Fa Mc	Description	NET EACH
7E 443	2N43	A	240	-30	-300	1.3	Audio; PNP	4.77
8E 050	2N43A	A	155	-25	.....	1.3	Audio; PNP	4.80
8E 068	USAF/2N43A†	A	155	-25	.....	1.3	Audio; PNP	6.42
7E 444	2N44	A	240	-30	-300	1	Audio; PNP	3.16
8E 069	USAF/2N44A†	A	155	-25	.....	1	Audio; PNP	5.69
7E 446	2N78	A	65	15	20	9	Computer; NPN	3.64
7E 442	2N107	A	60	12	10	6	Audio; PNP	1.97
7E 938	2N123	A	150	-15	-125	8	Computer; PNP	5.37
7E 484	2N135	A	100	-20	-50	3	RF IF; PNP	2.10
7E 485	2N136	A	100	-20	-50	5	RF IF; PNP	2.51
7E 486	2N137	A	100	-10	-50	7	RF IF; PNP	6.07
7E 941	2N167	C	75	30	75	9	Computer; NPN	6.31
7E 488	2N168A	C	65	15	20	8	IF; NPN	2.02
7E 489	2N169	C	65	15	20	9	IF; NPN	1.92
7E 490	2N169A	C	65	25	20	9	IF; NPN	1.96
7E 491	2N170	C	25	6	20	4	Audio; NPN	1.26
7E 415	2N186A	A	200	-25	-200	0.8	Audio; PNP	1.92
7E 417	2N187A	A	200	-25	-200	1	Audio; PNP	1.96
7E 419	2N188A	A	200	-25	-200	1.2	Audio; PNP	1.99
7E 420	2N189	A	75	-25	-50	0.8	Audio; PNP	1.73
7E 421	2N190	A	75	-25	-50	1	Audio; PNP	1.74
7E 422	2N191	A	75	-25	-50	1.2	Audio; PNP	1.78
7E 423	2N192	A	75	-25	-50	1.5	Audio; PNP	1.84
7E 942	2N241	A	100	-25	-200	1.3	Audio; PNP	1.89
7E 943	2N241A	A	200	-25	-200	1.3	Audio; PNP	2.04
7E 944	2N265	A	75	-25	-50	1.5	Audio; PNP	1.87
7E 945	2N292	C	65	15	-20	5	RF IF; PNP	1.82
7E 499	2N293	C	65	15	-20	8	RF IF; NPN	1.99
7E 948	2N319	B	240	-20	-200	2	Audio; PNP	1.96
7E 978	2N320	B	240	-20	-200	2.5	Audio; PNP	1.99
7E 979	2N321	B	240	-20	-200	3	Audio; PNP	1.94
7E 980	2N322	B	140	-16	-100	2	Audio; PNP	1.74
7E 982	2N324	B	140	-16	-100	3	Audio; PNP	1.84
7E 993	2N332#	B	150	45	25	30	Amp & Computer; NPN	9.55
7E 994	2N333#	B	150	45	25	33	Amp & Computer; NPN	17.30
7E 993	2N335#	B	150	45	25	38	Amp & Computer; NPN	22.05
8E 051	2N394	B	150	-10	-200	5.5	Computer; PNP	3.89
8E 052	2N395	B	150	-15	-200	7	Computer; PNP	3.39
8E 053	2N396	B	150	-20	-200	7	Computer; PNP	5.29
8E 054	2N397	B	150	-10	-250	10	Computer; PNP	7.94
8E 055	2N450	B	150	30	30	25	RF; NPN	3.17
7E 994	2N489#	B	350	45	0.9*	0.9*	Unijunction PN sw.	15.00
7E 995	2N490#	B	350	55	0.7*	0.7*	Unijunction PN sw.	15.00
7E 996	2N491#	B	350	45	0.8*	0.8*	Unijunction PN sw.	15.00
7E 997	2N492#	B	350	55	0.7*	0.7*	Unijunction PN sw.	15.00
7E 998	2N493#	B	350	45	0.7*	0.7*	Unijunction PN sw.	15.00
7E 999	2N494#	B	350	55	0.65*	0.65*	Unijunction PN sw.	15.00
8E 056	2N508	B	140	-16	-100	3.5	Audio; PNP	1.87
8E 064	2N524	B	225	-45	-500	2	Audio; PNP	2.99
8E 065	2N525	B	225	-45	-500	2.5	Audio; PNP	3.16
8E 066	2N526	B	225	-45	-500	3	Audio; PNP	3.49
8E 067	2N527	B	225	-45	-500	3.3	Audio; PNP	4.07
7E 983	4JD183	A	200	-30	1000	0.8	Symmet sw.; PNP	6.47
7E 984	4JD184	A	200	-30	1000	0.8	Symmet sw.; PNP	6.87

MOTOROLA

2N700 "Mesa", PNP; for lower UHF range. Oscillates up to 600 mc; at least 10 db gain at 200 mc. Maximum junction temperature, 100° C. P₁: 50 mw; BV: 15 v.; Ic: 5 ma; Fa: 500 mc.

5 EC 948, NET EACH.....36.80

Stock No.	Type	Fig.	Pt Mw	BV V	Ic Ma	Fa Mc	Description	NET EACH
5E 930	2N176	K	40W§	-40	3A	7 kc	Power; PNP	2.78
5E 936	2N350	K	40W§	-40	3A	8 kc	Power; PNP	2.85
5E 937	2N351	K	40W§	-40	3A	7 kc	Power; PNP	3.10
5E 938	2N375	K	40W§	-40	3A	10 kc	H.V. Power; PNP	5.55
5E 938	2N376	K	40W§	-40	3A	6 kc	Power; PNP	3.15
5E 463	2N425	B	150	-30	400	6	Switching; PNP	4.35
5E 463	2N426	B	150	-30	400	6	Switching; PNP	4.50
5E 464	2N427	B	150	-30	400	11	Switching; PNP	6.60
5E 465	2N428	B	150	-30	400	17	Switching; PNP	9.00
5E 450	2N464	B	150	-45	100	0.7	Switching; PNP	1.65
5E 451	2N465	B	150	-45	100	0.8	Audio; PNP	1.73
5E 452	2N466	B	150	-35	100	1	Audio; PNP	1.80
5E 453	2N467	B	150	-35	100	1.2	Audio; PNP	2.25
5E 941	2N505	K	125	-40	400	8	Switching; PNP	6.60
5E 939	2N554	K	40W§	-30	3A	8 kc	Power; PNP	1.95
5E 940	2N555	K	40W§	-40	3A	8 kc	Power; PNP	1.95
5E 947	2N618	K	40W§	-80	3A	8.5 kc	H.V. Power & Sw; PNP	6.37
5E 943	2N627	K	50W§	-40	10A	7.5 kc	Switching; PNP	5.25
5E 944	2N628	K	50W§	-80	10A	7.5 kc	Switching; PNP	6.75
5E 945	2N629	K	50W§	-80	10A	7.5 kc	Switching; PNP	10.50
5E 946	2N630	K	50W§	-100	10A	7.5 kc	Switching; PNP	21.00
5E 454	2N650	B	200	-45	250	2	Audio; PNP	1.87
5E 455	2N651	B	200	-45	250	2.5	Audio; PNP	2.10
5E 456	2N652	B	200	-45	250	3	Audio; PNP	2.40
5E 457	2N653	B	200	-30	250	2	Audio; PNP	1.65
5E 458	2N654	B	200	-30	250	2.5	Audio; PNP	1.80
5E 459	2N655	B	200	-30	250	3	Audio; PNP	1.95
5E 459	2N669	K	10W§	-40	3A	5	Power; PNP	3.15
5E 466	2N699	K	40W§	-40	3A	15 kc	Power; PNP	3.30

PHILCO

Stock No.	Type	Fig.	Pt Mw	BV V	Ic Ma	Fa Mc	Description	NET EACH
8E 305	2N128	F	30	-10	5	55*	IF, RF; SBT†	6.30
8E 311	2N207	E	50	-12	-20	2	Audio; PNP	2.80
8E 312	2N207A	E	50	-12	-20	2	Audio; PNP	3.00
8E 313	2N207B	E	50	-12	-20	2	Audio; PNP	3.40
8E 307	2N207B	E	50	-12	-20	2	Audio; PNP	3.40
8E 313	2N223	E	200	-18	-150	0.6	Audio; PNP	1.65
8E 308	2N224	E	250	-25	-150	0.51	Audio; PNP	1.95
8E 309	2N226	E	250	-30	-150	0.4	Audio; PNP	1.65
8E 306	2N240	E	30	-6	-15	50	Computer; SBT†	7.35
8E 302	2N344/SB101	F	20#	-5	-5	50	IF, RF; SBT†	3.45
8E 303	2N345/SB102	F	20#	-5	-5	50	IF, RF; SBT†	4.35
8E 304	2N346/SB103	F	20#	-5	-5	75	IF, RF; SBT†	5.85
8E 317	2N352	F	25W	-40	-2A	16 kc	Power; PNP	2.80
8E 318	2N353	G	30W	-40	-2A	16 kc	Power; PNP	3.75
8E 319	2N386	G	12.5W	-60	-3A	7 kc	Power; PNP	6.75
8E 320	2N387	G	12.5W	-80	-3A	6 kc	Power; PNP	9.75
8E 324	2N393	G	50	-6	-50	60*	Switching; Micro-Alloy	9.40
8E 310	2N462	F	150	-40	-200	0.8	Bilateral; PNP	6.00
8E 322	2N495#	F	150	-25	-50	15*	IF, RF; PNP	21.00
8E 323	2N496#	F	150	-10	-50	15*	Switching; PNP	26.55
8E 325	2N499	F	75	-30	-50	320*	VHF; MADT	8.25
8E 326	2N500	F	75	-20	-50	500*	UHF Osc.; MADT	10.90
8E 327	2N501	F	50	-18	-50	375*	Switching; MADT	14.35
8E 328	2N502	D	60	-20	-50	700*	Switching; MADT	12.40
8E 329	2N503	D	60	-20	-50	425*	RF; MADT	11.25
8E 330	2N504	F	50	-35	-50	100*	IF, HF, MADT	6.00
8E 314	2N534	E	25**	-50	-25	2	Audio; PNP	2.80
8E 315	2N535	E	50	-20	-20	2	Audio; PNP	2.80
8E 316	2N536	E	50	-20	-30	1	Switching; PNP	3.40
8E 331	2N588	F	80	-20	-50	225*	IF, VHF; MADT	6.00
8E 321	2N589	G	37.5W	-100	-3A	9	Power; PNP	13.50
8E 334	2N597	D	250	-30	-400	4.5	Switching; PNP	4.35
8E 335	2N598	D	250	-30	-400	7.5	Switching; PNP	5.85
8E 336	2N599	D	250	-30	-400	18	Switching; PNP	8.85
8E 337	2N670	D	300	-40	-2A	0.65	Pulse Amp.; PNP	3.20
8E 338	2N671	D	1W	20	-2A	0.5	Power; PNP	3.90
8E 339	2N672	D	300	-25	-2A	600	Power Amp.; PNP	3.90
8E 301	SB100	F	10#	-4.5	-5	45*	IF, RF; SBT†	3.90
8E 300	SB200	F	10#	-4.5	-5	22.5*	IF, RF; SBT†	2.25

SYLVANIA

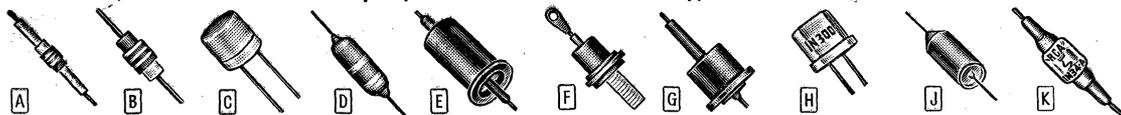
Stock No.	Type	Fig.	Pt Mw	BV V	Ic Ma	Fa Mc	Description	NET EACH
7E 342	2N34	H	50	-40	50	0.4	Gen'l Purp.; PNP	3.30
7E 341	2N35	H	50	40	1000	10 kc††	Gen'l Purp.; NPN	1.16
7E 343	2N68	J	1.5W	-30	1.5A	0.4	Power; PNP	5.36
7E 344	2N94	H	50	20	.....	3	RF, IF; NPN	1.65
7E 346	2N94A	H	50	20	50	3	RF, IF; NPN	5.78
7E 345	2N95	J	1.5W	-30	1.5A	0.4	Power; NPN	5.36
7E 347	2N101	.....	1W	-30	0.4	0.4	Power; PNP	4.35
7E 336	2N102	.....	1W	30	800	0.4	Power; NPN	4.95
8E 650	2N109	.....	50	-25	70	.....	Audio; PNP	1.74
7E 339	2N141	J	1.5W	-60	800	0.4	Power; PNP	10.31
7E 349	2N142	J	1.5W	60	800	0.4	Power; NPN	10.31
8E 651	2N143	.....	1W	-60	800	0.4	Power; PNP	9.90
8E 652	2N144	.....	1W	-60	800	0.4	Power; PNP	9.90
8E 653	2N155	K	8.5W†††	-30	3A	6 kc††	Power; PNP	3.05
8E 654	2N176	K	10W§†††	-30	3A	4 kc††	Power; PNP	3.05
8E 655	2N193	K	.....	.....	.....	.....	Osc.; NPN	1.57
7E 389	2N194	H	50	18	50	3	Mixer; NPN	1.90
7E 398	2N212	H	50	12	50	6	Converter; NPN	1.98
7E 399	2N213	H	50	40	100	10 kc††	Audio; NPN	1.29
7E 863	2N214	H	180	40	100	10 kc††	Audio; N	

Diodes and Rectifiers

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PACIFIC SEMICONDUCTORS

Compact, color-coded hermetically sealed semiconductors for exacting applications. Incorporate fused glass-to-metal seals and welded metal-to-metal seals; perform over extremely wide temperature range. Leads are 1/4" min. All units are silicon, except *germanium.

Gen. Purp. Point-Contact Diodes: VMI is max. inverse wkg. voltage @ 25° C. Oper. temp. range: -78° to +90° C. Max. size: .265x.140". **Gen. Purp. Diodes:** IMAR1 is max. av. rectified current @ 25° C. Max. av. rectified current @ 150° C is 70 ma. Power dissipation: 0.5 watts @ 25° C. Oper. temp. range: -80° to +200° C. Max. size: .265x.140". **High-Conductance Diodes:** IMAR6 is max. av. rectified current @ 150° C. Max. av. rectified current @ 25° C of units with IMAR6 of 50 ma is 125 ma, with IMAR6 of 70 ma, 200 ma. Max. power dissipation: 0.5 watts @ 25° C. Oper. temp. range: -80° to +200° C. **Fast-Recovery (Diffusion) Computer Diodes:** Max. size: .265x.140". VPR1 is max. reverse current @ 25° C. Oper. temp. range: -65° to +150° C; Max. size: .265x.140". **Submin. Rectifiers:** Oper. temp. range: -65° to +200° C. (1N group): Rated 400 ma @ 25° C, 150 ma @ 150° C. IMR4 is max. reverse current @ 100° C. VPR16 is peak recur. inverse voltage @ 150° C. Max. size: .265x.140". (PS group): Rated 250 ma @ 25° C, 125 ma @ 100° C. VPR16 is peak recur. inverse voltage @ 150° C. Max. av. inverse current is 100 ma @ 100° C, full rated current, and VRMS4. Max. size: .265x.140". **Min. Rectifiers:** Rated 500 ma @ 25° C, 200 ma @ 150° C. VRMS6 is max. RMS input voltage @ 150° C. VPR16 is peak recur. inverse voltage @ 150° C. Max. av. inverse current is 500 ma @ 150° C, full rated current, and VRMS6. Oper. temp. range: -65° to +200° C. Max. size: .760x.140". Av. shpg. wt., all units, 2 oz.

Stock No.	Type	Fig.	Description-Application	NET EACH	
				1-99	100-999
B E 250	1N34A	B	*Gen.-Purp. Point-Contact Diode (60v. VMI)	1.44	.34
B E 251	1N67A	B	*Gen.-Purp. Point-Contact Diode (150v. VMI)	1.06	.19
B E 252	1N67A	B	*Gen.-Purp. Point-Contact Diode (80v. VMI)	1.05	.30
B E 253	1N90	B	*Gen.-Purp. Point-Contact Diode (60v. VMI)	1.38	.30
B E 254	1N99	B	*Gen.-Purp. Point-Contact Diode (80v. VMI)	1.24	.95
B E 255	1N116	B	*Gen.-Purp. Point-Contact Diode (80v. VMI)	.66	.50
B E 256	1N118	B	*Gen.-Purp. Point-Contact Diode (60v. VMI)	.78	.60
B E 257	1N126	B	*Gen.-Purp. Point-Contact Diode (60v. VMI)	.45	.35
B E 258	1N198	B	*Gen.-Purp. Point-Contact Diode (80v. VMI)	1.18	.90
B E 259	1N456	B	Gen.-Purp. Diode (90 ma IMAR1)	3.18	2.45
B E 260	1N457	B	Gen.-Purp. Diode (75 ma IMAR1)	3.67	2.85
B E 261	1N458	B	Gen.-Purp. Diode (55 ma IMAR1)	4.05	3.10
B E 262	1N459	B	Gen.-Purp. Diode (40 ma IMAR1)	2.3	3.25
B E 263	1N461	B	Gen.-Purp. Diode (60 ma IMAR1)	1.59	.25
B E 264	1N462	B	Gen.-Purp. Diode (50 ma IMAR1)	2.39	1.83
B E 265	1N463	B	Gen.-Purp. Diode (200 ma IMAR1)	2.86	2.18
B E 266	1N464	B	Gen.-Purp. Diode (40 ma IMAR1)	2.65	2.05
B E 267	1N482	B	High-Conductance Diode (50 ma IMAR6)	1.65	1.25
B E 268	1N482A	B	High-Conductance Diode (70 ma IMAR6)	2.43	1.85
B E 269	1N484	B	High-Conductance Diode (50 ma IMAR6)	2.74	2.10
B E 270	1N484A	B	High-Conductance Diode (70 ma IMAR6)	3.21	2.45
B E 271	1N485	B	High-Conductance Diode (50 ma IMAR6)	2.86	2.20
B E 272	1N485A	B	High-Conductance Diode (70 ma IMAR6)	3.6	2.75
B E 273	1N486	B	High-Conductance Diode (50 ma IMAR6)	3.33	2.70
B E 274	1N486A	B	High-Conductance Diode (70 ma IMAR6)	4.23	3.25
B E 275	1N487A	B	High-Conductance Diode (70 ma IMAR6)	6.54	5.00
B E 276	1N488	B	High-Conductance Diode (50 ma IMAR6)	6.27	4.80
B E 277	1N488A	B	High-Conductance Diode (70 ma IMAR6)	8.16	6.25
B E 289	1N625	B	Fast-Recov. (0.15 μ sec T, 1 μ A IMR1 @ 10v.)	1.67	1.30
B E 290	1N626	B	Fast-Recov. (1 μ sec T, 2 μ A IMR1 @ 35v.)	2.01	1.55
B E 291	1N627	B	Fast-Recov. (1 μ sec T, 20 μ A IMR1 @ 75v.)	2.30	1.80
B E 292	1N628	B	Fast-Recov. (1 μ sec T, 20 μ A IMR1 @ 125v.)	2.60	2.00
B E 293	1N629	B	Fast-Recov. (1 μ sec T, 20 μ A IMR1 @ 175v.)	2.84	2.20
B E 294	1N643	B	Fast-Recov. (0.3 μ sec T, 1 MCR @ 100v.)	3.70	3.60
B E 284	1N663	B	Submin. Rectifier (15 μ A IMR4 @ 225v. VPR16)	3.14	2.40
B E 285	1N646	B	Submin. Rectifier (15 μ A IMR4 @ 300v. VPR16)	4.24	3.25
B E 286	1N647	B	Submin. Rectifier (20 μ A IMR4 @ 400v. VPR16)	5.49	4.20
B E 287	1N648	B	Submin. Rectifier (20 μ A IMR4 @ 500v. VPR16)	6.80	5.20
B E 288	1N649	B	Submin. Rectifier (25 μ A IMR4 @ 600v. VPR16)	8.04	6.15
B E 295	1N663	B	Fast Recov. (0.5 μ sec T, 5 μ A IMR1 @ 75v.)	4.70	3.60
B E 278	PS005	B	Submin. Rectifier (35v. VRMS4, 50v. VPR14)	1.05	.80
B E 279	PS020	B	Submin. Rectifier (70v. VRMS4, 200v. VPR14)	2.28	1.75
B E 280	PS050	B	Submin. Rectifier (350v. VRMS4, 500v. VPR14)	5.10	3.90
B E 281	PS060	B	Submin. Rectifier (420v. VRMS4, 600v. VPR14)	5.88	4.50
B E 282	PS100	B	Fast Recov. (35v. VRMS, 50v. VPR16)	1.18	.90
B E 283	PS120	A	Min. Rectifier (140v. VRMS6, 200v. VPR16)	2.62	2.00

PACIFIC "VARICAP" (40V-VRMS6) VARIABLE CAPACITORS

Compact, silicon PN junction device permits varying circuit capacitance through control of bias voltage. Functions like capacitor and resistor in series from 5-500 mc, with capacitance varying essentially as 1/V when biased in reverse direction. Capacitance and resistance are virtually independent of frequency, and capacitance values remain nearly constant over operating range of -65° to +150° C and over a long period of time. Hermetically sealed—have glass-to-metal fused and metal-to-metal welded seals. Color coded. Min. lead length: 1/4". Max. size: .265x.140" dia. Av. shpg. wt., 2 oz.

Stock No.	Type	Capacitance* @ -4 v.	Max. Oper. Voltage	Series Res. (Ohms)	Typical Q		NET EACH	
					Res.	Typical	Q at 50 mc	1-99	100-999
B E 296	V15	15 mmf	-100	30	7.5			
B E 750	V20	20 mmf	-100	18	8.5	18.7		
B E 297	V27	27 mmf	-100	14	7.5	15.7		
B E 751	V33	33 mmf	-20	12	6.6	14.6	2.69	2.06
B E 298	V39	39 mmf	-20	10	5.4	15.1		
B E 752	V47	47 mmf	-20	7.5	4.4	15.4		
B E 299	V56	56 mmf	-15	7.0	4.2	13.5		



TEXAS INSTRUMENT SILICON DEVICES

Group no. I—gen. purp. diode; II—computer diode; III—VR diode; IV—rectifier. VP is peak inverse voltage, except breakdown voltage (@ 25° C) for III (*min.-max., $\pm 5\%$ tolerance), and peak recur. inverse voltage (@ 25° C) for IV. Specification "S" (@ 25° C) is av. rectified fwd. current (I), max. reverse recur. time (II), max. power diss. (III), av. rectified fwd. current @ Vp (IV). Av. shpg. wt., 3 oz.

No.	Type	Fig.	Group	Vp (volts)	S	NET EA.
B E 179	1N538	G	IV	200	750 ma	2.50
B E 180	1N539	G	IV	300	750 ma	2.90
B E 181	1N540	G	IV	400	750 ma	4.14
B E 167	1N588	E	IV	1500	25 ma	8.10
B E 168	1N589	E	IV	1500	50 ma	11.20
B E 169	1N590	....	IV	1500	125 ma	14.00
B E 170	1N591	....	IV	1500	125 ma	14.00
B E 174	1N645	D	I	225	400 ma	3.28
B E 175	1N646	D	I	300	400 ma	4.44
B E 176	1N647	D	I	400	400 ma	5.77
B E 177	1N648	D	I	500	400 ma	7.10
B E 178	1N649	D	I	600	400 ma	8.42
B E 179	1N640	D	II	100	0.3 μ sec	4.00
B E 223	1N660	D	II	100	0.3 μ sec	4.13
B E 224	1N661	D	II	200	0.3 μ sec	4.97
B E 181	1N1095	G	IV	500	750 ma	5.80
B E 182	1N1096	G	IV	600	750 ma	7.50
B E 229	1N1124	F	IV	200	3.0 A	2.70
B E 240	1N1124R	F	IV	200	3.0 A	2.70
B E 230	1N1125	F	IV	300	3.0 A	3.38
B E 241	1N1125R	F	IV	300	3.0 A	3.38
B E 231	1N1126	F	IV	400	3.0 A	4.73
B E 242	1N1126R	F	IV	400	3.0 A	4.73
B E 243	1N1127	F	IV	500	3.0 A	6.76
B E 244	1N1127R	F	IV	500	3.0 A	6.76
B E 239	1N1128	F	IV	600	3.0 A	8.32
B E 244	1N1128R	F	IV	600	3.0 A	8.32
B E 171	1N1130	....	IV	1500	300 ma	11.20
B E 172	1N1131	....	IV	1500	300 ma	11.20
B E 141	600C	C	I	27	25 ma	1.94
B E 142	601C	C	I	45	25 ma	3.60
B E 145	608C	C	I	10	75 ma	3.25
B E 146	610C	C	I	15	60 ma	3.30
B E 147	612C	C	I	22	50 ma	3.40
B E 151	620C	C	I	100	30 ma	3.65
B E 152	622C	C	III	150	25 ma	3.70
B E 153	624C	C	III	220	150 mw	3.75
B E 154	630C	C	III	3.4-4.5*	150 mw	4.35
B E 155	631C	C	III	4.3-5.4*	150 mw	4.35
B E 156	632C	C	III	5.2-6.4*	150 mw	4.35
B E 157	653C	C	III	6.2-8.0*	150 mw	4.35
B E 158	650C0	C	III	3.7†	150 mw	4.85
B E 159	650C3	C	III	4.0†	150 mw	4.85
B E 160	651C0	C	III	4.5†	150 mw	4.85
B E 161	651C5	C	III	5.0†	150 mw	4.85
B E 162	652C0	C	III	5.5†	150 mw	4.85
B E 163	652C5	C	III	6.0†	150 mw	4.85
B E 164	653C0	C	III	6.5†	150 mw	4.85
B E 165	653C4	C	III	7.0†	150 mw	4.85
B E 166	653C9	C	III	8.0†	150 mw	4.85
B E 225	654C9	C	III	9.0†	150 mw	4.85
B E 226	655C9	C	III	10.0†	150 mw	4.85



RAYTHEON DIODES

All are bonded silicon, except *point-contact germanium; †gold bonded germanium. Low shunt capacitance. Have wire leads. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Fig.	Peak Inv. Voltage	Min. Forward Current (mA) at Vp	Max. Inv. Current (mA)	Temperature Range (°C)	NET EACH
B E 845	*1N34	J	60	5	.8@-50V	-50 to +100	.52
B E 915	1N38	J	120	3.0	.6@-100V	-50 to +100	.99
B E 916	1N60	J	25	.....	.2@-10V	-50 to +100	.36
B E 795	*1N66	J	60	5	.8@-10V	-50 to +100	.52
B E 786	*1N67	J	80	4	.05@-50V	-50 to +100	1.40
B E 829	1N82	J	100	3	.6@-100V	-50 to +100	.99
B E 810	*1N294	J	40	5	Noise figure 14 db max.	-50 to +100	1.05
B E 812	*1N295	J	60	.....	.2@-50V	-50 to +100	.65
B E 726	*1N297	J	80	3.5	.8@-10V	-50 to +100	.98
B E 841	1N300	H	15	.....	.001@-10V	-55 to +150	5.78
B E 900	1N300A	H	15	30	.001@-10V	-55 to +150	6.61
B E 842	1N301	H	70	5	.05@-50V	-55 to +150	5.78
B E 901	1N301A	H	70	18	.05@-50V	-55 to +150	6.61
B E 843	1N303	H	125	3	.1@-100V	-55 to +150	5.78
B E 903	1N303A	H	125	12	.1@-100V	-55 to +150	6.61
B E 835	*1N305	H	60	.....	.02@-50V	-55 to +100	3.30
B E 904	1N306	H	15	.....	.002@-10V	-55 to +100	3.30
B E 838	1N302	J	125	100	.02@-100V	-55 to +100	3.30
B E 832	*CK715	J	40	10	.....	-50 to +100	.65

RCA POINT-CONTACT GERMANIUM DIODES

Stock No.	Mfr's Type	Description	Peak Inv. V.	Av. Fwd. Ma @ 25° C.	Wt.	NET EACH
B E 870	1N34A	Gen. Purp.	60	50	3	48¢
B E 874	1N38A	Large Signal	100	50	3	97¢
B E 875	1N54A	High Back Res.	50	50	3	97¢

Rectifiers and Diodes

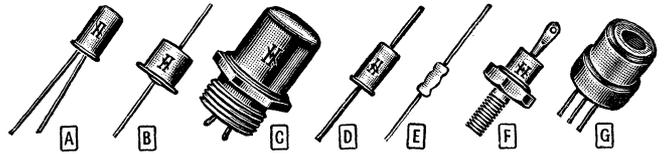


HOFFMAN SILICON DIODES AND RECTIFIERS

- Ready for Delivery at OEM Prices
- In Stock—In Quantity

- Same Day Shipment
- New Types Added as Announced

A complete line of silicon diodes and rectifiers for practically any need, featuring a full assortment of the new zener diodes. These units have characteristics which make them suitable for voltage regulation, reference, or switching. Also includes general purpose, glass-cased general purpose, glass-cased fast recovery, and low-cost HB general purpose series—ideal for replacement use. Extremely stable and reliable; designed to meet close tolerances. Av. shpg. wt., 3 oz. For further descriptions and specifications, write Allied's Industrial Division. Any type not listed is available on special order. Write for literature and prices.



Stock No.	Type	Fig.	Description	EACH	Stock No.	Type	Fig.	Description	EACH	Stock No.	Type	Fig.	Description	EACH	
8E 351	1N137A	A	General purpose	2.75	8E 410	1N463	E	Glass; general purpose	3.50	8E 454	1N1320	A	Zener single anode; medium voltage	3.50	
8E 352	1N138A	A		2.75	8E 411	1N464	E		3.30	8E 455	1N1321	A			
8E 353	1N200	A		3.25	8E 377	1N465	A		Zener; low voltage	3.75	8E 456	1N1322			A
8E 354	1N201	A		3.25	8E 378	1N466	A				8E 457	1N1323			A
8E 355	1N202	A	3.25	8E 379	1N467	A	8E 458	1N1324			A				
8E 356	1N203	A	General purpose	3.25	8E 380	1N468	A	Zener single anode; medium voltage			3.50	8E 459	1N1325	A	
8E 357	1N204	A			8E 381	1N469	A		8E 460	1N1326		A			
8E 358	1N205	A			8E 382	1N470	A		8E 461	1N1327		A			
8E 359	1N206	A			8E 392	1N471	A		Zener double anode; low voltage	5.20		8E 462	1N1351	F	
8E 360	1N207	A	8E 393	1N472	A	8E 463	1N1352	F							
8E 361	1N208	A	8E 394	1N473	A	8E 464	1N1353	F							
8E 362	1N209	A	8E 395	1N474	A	8E 465	1N1354	F							
8E 363	1N210	A	General purpose	3.25	8E 396	1N475	A	8E 466	1N1355	F					
8E 364	1N211	A			8E 423	1N536	B	Medium-power rectifier	1.50	8E 467	1N1356	F			
8E 365	1N212	A			8E 424	1N537	B			1.50	8E 468	1N1357	F		
8E 366	1N213	A			8E 425	1N538	B			1.50	8E 469	1N1358	F		
8E 367	1N214	A	8E 426	1N539	B	2.45	8E 470			1N1359	F				
8E 368	1N215	A	General purpose	3.25	8E 427	1N540	B	3.70	8E 471	1N1360	F				
8E 369	1N216	A			8E 412	1N625	E	Glass; fast recovery	1.80	8E 472	1N1361	F			
8E 370	1N217	A			8E 413	1N626	E			2.10	8E 473	1N1362	F		
8E 371	1N218	A			8E 414	1N627	E			2.55	8E 474	1N1363	F		
8E 372	1N219	A	8E 415	1N628	E	2.90	8E 475			1N1364	F				
8E 373	1N220	A	General purpose	4.50	8E 416	1N629	E	3.10	8E 476	1N1365	F				
8E 374	1N221	A			8E 428	1N1095	B	Medium-power rectifier	5.60	8E 477	1N1366	F			
8E 375	1N222	A			8E 432	1N1115	F			2.90	8E 478	1N1367	F		
8E 385	1N225	A			8E 433	1N1116	F			3.30	8E 479	1N1368	F		
8E 386	1N227	A	8E 434	1N1117	F	4.15	8E 480			1N1369	F				
8E 387	1N228	A	Zener double anode; medium voltage	5.75	8E 435	1N1118	F	5.80	8E 481	1N1370	F				
8E 388	1N229	A			8E 436	1N1251	D	Medium-power rectifier	1.50	8E 482	1N1371	F			
8E 389	1N230	A			8E 437	1N1252	D			1.50	8E 483	1N1372	F		
8E 390	1N231	A			8E 438	1N1253	D			1.80	8E 484	1N1373	F		
8E 391	1N232	A	8E 439	1N1254	D	2.45	8E 485			1N1374	F				
8E 429	1N253	F	Medium-power rectifier	2.90	8E 440	1N1255	D	3.70	8E 486	1N1375	F				
8E 430	1N254	F			8E 441	1N1256	D	3.70	8E 401	1N1530	G				
8E 431	1N255	F			8E 442	1N1257	D	5.60	8E 402	1N1530A	G				
8E 432	1N256	F			8E 443	1N1258	D	8.00	8E 417	GZ-1	E				
8E 397	1N423	A	Zener reference unit	9.00	8E 444	1N1259	D	11.00	8E 418	GZ-2	E				
8E 398	1N426	C			8E 445	1N1260	D	12.00	8E 419	GZ-3	E				
8E 399	1N430A	C			8E 446	1N1261	D	13.00	8E 420	GZ-4	E				
8E 400	1N430B	C			8E 447	1N1313	A	14.00	8E 421	GZ-5	E				
8E 376	1N431	A	General purpose	5.00	8E 448	1N1314	A	Zener single anode; medium voltage	3.50	8E 487	HB-1	A			
8E 403	1N456	E			8E 449	1N1315	A			8E 488	HB-2	A			
8E 404	1N457	E			8E 450	1N1316	A			8E 489	HB-3	A			
8E 405	1N458	E			8E 451	1N1317	A			8E 490	HB-4	A			
8E 406	1N459	E	8E 452	1N1318	A	8E 491	HB-5	A							
8E 408	1N461	E	8E 453	1N1319	A	8E 492	HB-6	A							
8E 409	1N462	E													

SYLVANIA CRYSTAL AND MICROWAVE SILICON DIODES

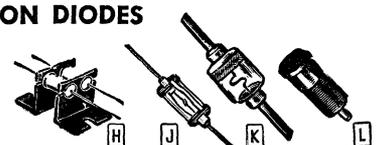
GERMANIUM CRYSTAL DIODES

These compact, highly efficient crystal diodes have hundreds of applications. May be used for rectification of frequencies up to 200 mc—have applications as detectors in TV and communications receivers, transmitters, etc.

Stock No.	Type	Fig.	Description	NET
7E 236	1N34A	K	60-volt	.50
7E 220	1N35	H	Matched pair 1N34A	1.57
7E 426	1N38A	K	100-volt	.83
8E 744	1N39B	K		.83
7E 235	1N39A	K	200-volt	2.48
8E 685	1N48	K	85-volt	.68
7E 427	1N54A	K	High back res.	.99
7E 428	1N55A	K	150-volt	1.82
7E 289	1N56A	K	High conductance	.69
7E 237	1N58A	K	100-volt	1.22
7E 292	1N60	K	Video detector	.36
8E 687	1N63	K	High back res.	1.40
8E 688	1N64	...	Video detector	.36
8E 689	1N65	J	70-volt	.58
8E 690	1N67A	J	Min. high back	1.07
8E 691	1N69A	K	60-volt	.38
8E 692	1N70A	K	100-volt	.78
8E 693	1N77A	...	Photodiode	3.20
8E 694	1N78A	...		3.20
8E 695	1N81A	K	Low voltage	.94
7E 440	1N82	K	UHF mixer	.99
8E 696	1N82A	K	100-volt	1.07
8E 697	1N90	J	Min. general purpose	.50
8E 698	1N98	J	Min. high back	1.24
8E 699	1N118	J	Min. high conductance	1.07
8E 700	1N119	K	60-v. computer	1.02
8E 701	1N126	J	Min. 60-volt	.58
8E 702	1N128A	J	100-volt	.58
8E 703	1N127	J	Min. 100-volt	1.20

Point-contact crystal rectifiers, hermetically sealed in glass-to-metal moisture-proof cartridges—stand extended exposure to humidity. Items below which are only designated by a voltage rating are general purpose types. "Min." in description means miniature. 2 oz.

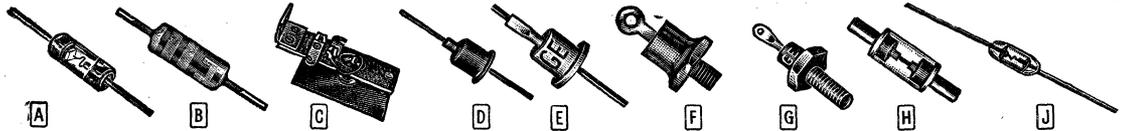
Stock No.	Type	Fig.	Description	NET
8E 704	1N127A	J	Min. 100 volt	1.16
8E 705	1N128	J	Min. high back	.91
8E 706	1N191	J	Min. computer	1.07
8E 707	1N193	K	High temperature	6.60
8E 708	1N194	K		9.90
8E 709	1N195	K		7.84
8E 710	1N196	K		11.55
8E 711	1N198A	J	Min.—75° C.	1.16
8E 712	1N252	J	Min. 20-v. switch'g	3.87
8E 713	1N279	J	Min. 30-v. high conductance	1.24
8E 714	1N283	J	Min. 20-v. high conductance	2.48
8E 715	1N295	K	Video detector	.37
8E 716	1N417	K	Computer	2.06
8E 717	1N418	K		1.02
8E 718	1N419	K		1.98
8E 719	1N448	K	Very low impedance	1.24
8E 720	1N450	K	Min. 70-volt	.99
8E 721	1N457	J	Min. 200-volt	3.87
8E 722	1N459	J	Min. 70-volt	4.56
8E 723	1N462	J	Min. 70-volt	2.51
8E 724	1N463	J	Min. 200-volt	2.91
8E 725	1N482	J	Min. 25-v. high conductance	1.70
8E 726	1N483	J	Min. 50-v. high conductance	3.87
8E 727	1N486A	J	Min. 160-v. high conductance	4.48
8E 728	1N634	J	Min. very low impedance	1.16
8E 729	1N636	J	Min. 20-volt	.38
8E 730	1N1093	K	Computer	1.19



Point contact silicon diodes designed for use as non-linear circuit elements in micro-wave applications—used in UHF-VHF TV converters. Av. shpg. wt., 2 oz.

Stock No.	Type	Fig.	Description	NET
7E 274	1N21B	L	3000 mc mixer	1.23
8E 731	1N21BM	L	Matched pair of 1N21B	3.70
8E 732	1N21BR	L	Reversed polarity of 1N21B	1.85
7E 275	1N21C	L	3000 mc mixer	2.05
8E 733	1N21CR	L	Reversed polarity of 1N21C	3.15
8E 734	1N21D	L	Low noise type 3000 mc mixer	5.35
8E 735	1N21DR	L	Reversed polarity of 1N21D	8.10
8E 736	1N21E	L	3000 mc mixer	7.00
8E 737	1N21ER	L	Reversed polarity 3000 mc mixer	10.50
7E 278	1N23A	L	10,000 mc mixer	1.24
7E 279	1N23B	L	10,000 mc mixer	1.25
8E 738	1N23BR	L	Reversed polarity 10,000 mc mixer	1.85
8E 739	1N23C	L	10,000 mc mixer	2.05
8E 740	1N23CM	L	Matched pair of 1N23C	5.20
8E 741	1N23D	L	10,000 mc mixer	5.35
8E 742	1N23E	L	Low noise type 10,000 mc mixer	7.40
7E 281	1N26	L	24,000 mc mixer	11.55
8E 743	1N78A	L	16,000 mc mixer	16.50

Diodes and Rectifiers



HUGHES DIODES
 Tiny point-contact germanium and silicon junction diodes. Fusion-sealed in moisture and gas-proof one-piece glass envelope. Highly resistant to shock and vibration. Stable over wide range of operating conditions. All Hughes diodes are clearly marked with 3 bands on cathode end and letter "H" on anode end. Germanium diodes: shunt capacitance, 0.5 mmf nom.; ambient operating temperature range, -70° to +90° C.—all specifications at 25° C.; 1N126, 1N127, 1N128, 1N198 are JAN types; HD 2051, electrical equivalent to 1N63, HD2120, electrical equivalent to 1N34A.*Silicon junction diodes: Highly efficient operation throughout wide temperature range of -80° to +200° C.; max. power dissipation at 25° C. is 200 mw; Silicon rectifiers have type number beginning with HR; 1 sec. surge is 10x av. rect. fwd. current; max. av. reverse current is 10 microamps. †@ 1.1 v. ‡Av. rect. fwd. current. Av. shpg. wt., 2 oz.

Stock No.	Type	Fig.	Min. Fwd. Ma @ 1V.	Inv. V.	Max. Inv. Ma @ 25° C.	NET EACH	
						1-99	100-999
7E 575	1N55B	A	5	150	500 @ 50v.	5.04	3.88
7E 576	1N67A	A	4	80	50 @ 50v.	.80	.71
7E 577	1N68A	A	3	100	625 @ 100v.	1.04	.80
7E 578	1N89	A	3.5	80	100 @ 50v.	.85	.65
7E 579	1N90	A	5	60	500 @ 50v.	.39	.30
7E 580	1N95	A	10	60	500 @ 50v.	.52	.40
7E 581	1N96	A	20	60	500 @ 50v.	.59	.45
7E 582	1N97	A	10	80	100 @ 50v.	.88	.68
7E 583	1N98	A	20	80	100 @ 50v.	.94	.73
7E 584	1N99	A	10	80	100 @ 50v.	1.24	.95
7E 585	1N100	A	20	80	50 @ 50v.	1.43	1.10
7E 586	1N116	A	5	60	100 @ 50v.	.78	.60
7E 588	1N118	A	20	60	100 @ 50v.	.81	.63
7E 589	1N126A	A	5	60	850 @ 50v.	.45	.34
7E 590	1N127A	A	3	100	300 @ 50v.	1.04	.80
7E 591	1N128	A	3	40	10 @ 10v.	.68	.53
Computer—0.5 sec. to 50k Ω						.98	.75
7E 592	1N191	A	4	80	50 @ 50v.	1.25	.90
7E 594	1N198	B	40	25	.025 @ 25v.	3.09	2.38
7E 673	1N456*	B	100	25	.025 @ 25v.	4.06	3.13
7E 674	1N457*	B	20	60	.025 @ 25v.	3.58	2.75
7E 675	1N458*	B	100	60	.025 @ 25v.	4.33	3.03
7E 676	1N459*	B	100	125	.025 @ 125v.	4.75	3.65
7E 677	1N462*	B	3	125	.5 @ 125v.	2.76	2.13
7E 678	1N464*	B	100	125	.5 @ 125v.	3.26	2.48
7E 679	1N463*	B	100	36	.25 @ 30v.	2.08	1.70
7E 680	1N463A*	B	100	36	.25 @ 30v.	2.63	2.03
7E 681	1N464*	B	3	125	.5 @ 125v.	2.76	2.13
7E 682	1N464A*	B	100	70	.25 @ 60v.	2.76	2.13
7E 683	1N463*	B	200	70	.025 @ 60v.	3.28	2.53
7E 684	1N483*	B	100†	130	.25 @ 125v.	3.02	2.33
7E 685	1N483A*	B	200	130	.25 @ 125v.	3.61	2.78
7E 686	1N485*	B	100†	180	.25 @ 175v.	3.15	2.43
7E 687	1N485A*	B	200	180	.025 @ 175v.	3.77	2.90
7E 688	1N486*	B	100†	225	.25 @ 225v.	3.77	2.90
7E 689	1N486A*	B	200	225	.05 @ 225v.	4.84	3.73
7E 690	1N487*	B	100†	300	.25 @ 300v.	5.82	4.48
7E 691	1N487A*	B	200	300	.1 @ 300v.	7.28	5.60
7E 692	1N488*	B	100†	380	.25 @ 380v.	6.18	4.75
7E 693	1N488A*	B	200	380	.1 @ 380v.	12.35	9.00
7E 595	HD2051	A	4	100	50 @ 50v.	2.02	1.55
7E 596	HD2120	A	5	60	500 @ 50v.	.46	.35
7E 597	HD2125	A	3	100	50 @ 50v.	1.43	1.10
7E 598	HD2135	A	5	60	100 @ 50v.	1.20	.93
7E 599	HD2150	A	100	80	50 @ 50v.	1.95	1.50
7E 598	HD2155	A	50	60	500 @ 50v.	.59	.45
7E 685	HD6751*	B	100	175	100 @ 150v.	2.70	2.08
7E 687	HD6753*	B	100	275	100 @ 250v.	4.10	3.15
7E 688	HD6754*	B	100	325	100 @ 300v.	4.42	3.40
7E 689	HD6755*	B	100	375	100 @ 350v.	5.36	4.13
7E 692	HR10211*	B	150‡	175	...	2.11	1.46
7E 693	HR10213*	B	150‡	275	...	3.51	2.70
7E 694	HR10215*	B	150‡	375	...	4.94	3.80
7E 694	HR10251†	B	200‡	175	...	2.60	2.00

SILICON QUICK RECOVERY DIODES

High-speed, fast-recovering diodes for usage where fast switching time is necessary. Feature high temperature, voltage and resistance qualities. Operating temperature range: -78° C. to +135° C.; maximum storage temperature, 150° C. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Max. Back Current		Rev. V. for 100 μA	NET EACH	
		μA @ 25° C	μA @ 100° C		1-99	100-999
7E 682	1N625	1@-10V	30@-20V	30	1.66	1.28
7E 690	1N626	1@-35V	30@-35V	50	1.98	1.53
7E 683	1N627	1@-75V	30@-75V	100	2.28	1.75
7E 679	1N628	1@-125V	30@-125V	150	2.54	1.95
7E 681	1N629	1@-175V	30@-175V	200	2.80	2.15

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G.E. GERMANIUM & SILICON RECTIFIERS
 Complete line of general-purpose and special-type G.E. crystal diodes and rectifiers for use in electronic and electrical power which require detection or rectification. Feature welded joint between platinum whisker and crystal for high strength and rigidity. Withstand shock and vibration. Free from microphonic effects. Low shunt capacitance. Exceptionally stable in operation. Explanation of Symbols: PIV—peak inverse voltage; *Silicon rectifiers; †all others germanium; ‡stud temperature, all other ratings at ambient temperature. Av. shpg. wt., 2 oz. Types 1N93, 1N315, 1N538, 1N540 are also available on special order in models which meet military specifications. Write Allied's Industrial Division for price and delivery.

Stock No.	Type	Fig.	PIV	Max DC Ma @ °C.	Max 1-Sec. Surge	Storage Max. °C.	NET EACH
7E 491	1N91	D	100	150	55	25A	85
7E 492	1N92	D	200	100	55	25A	85
7E 493	1N93	D	300	75	55	25A	85
7E 479	1N151	C	100	500	55	25A	85
7E 476	1N153	C	300	500	55	25A	85
8E 057	1N253	G	95	1000	135†	15A	175
8E 058	1N254	G	190	400	135†	15A	175
8E 059	1N255	G	370	200	135†	15A	175
8EC 070	1N256	G	580	400	135†	15A	175
8E 071	1N315	E	100	100	85	15A	95
8E 072	1N440B*	E	100	500	100	15A	175
8E 073	1N441B*	E	200	500	100	15A	175
8E 074	1N442B*	E	300	500	100	15A	175
8E 075	1N443B*	E	400	500	100	15A	175
8E 076	1N444B*	E	500	425	100	15A	175
8E 077	1N445B*	E	600	350	100	15A	175
7E 931	1N536*	E	50	500	100	15A	175
7E 497	1N537*	E	100	500	100	15A	175
7E 498	1N538*	E	200	500	100	15A	175
7E 932	1N539*	E	300	500	100	15A	175
7E 933	1N540*	E	400	500	100	15A	175
7E 990	1N1095*	E	500	425	100	15A	175
7E 934	1N1115*	G	100	1500	85†	15A	175
7E 935	1N1116*	G	200	1500	85†	15A	175
7E 936	1N1117*	G	300	1500	85†	15A	175
7E 937	1N1118*	G	400	1500	85†	15A	175
8E 060	1N1301*	F	50	15A	85†	300A	200
8E 061	1N1302*	F	100	15A	160†	300A	200
8EC 062	1N1304*	F	200	15A	160†	300A	200
8EC 063	1N1306*	F	300	15A	160†	300A	200
8E 082	1N1487*	E	100	250	125	15A	150
8E 079	1N1488*	E	200	250	125	15A	150
8E 080	1N1489*	E	300	250	125	15A	150
8E 081	1N1490*	E	400	250	125	15A	150
8E 082	1N1491*	E	500	250	110	15A	150
8E 083	1N1492*	E	600	250	95	15A	150
8E 084	1N1692*	D	100	250	100	20A	115
8E 085	1N1693*	D	200	250	100	20A	115
8E 086	1N1694*	D	300	250	100	20A	115
8E 087	1N1695*	D	400	250	100	20A	115

PHILCO UHF & X-BAND LOW NOISE DIODES

Hermetically sealed germanium diodes. Symbols: PIV—peak inverse voltage; Im—maximum forward; Fr—maximum frequency. Av. shpg. wt., 2 oz.

Stock No.	Type	Fig.	PIV	Im	Fr	NET
8E 333	1N147A	...	2 v.	55 ma	1000 mc	1.00
8EC 332	1N263	H	1 v.	50 ma	12,000 mc	12.50

IRC SELENIUM DUAL DIODES
 Exact replacement, highly stable, selenium dual diodes. For use in horizontal phase detectors in television receivers. Av. shpg. wt., 4 oz.
 7E 752, Type D4, Common-cathode. List, \$1.65. NET, 97¢
 7E 753, Type D5, Series-connected. List, \$1.65. NET, 97¢

AMPEREX GERMANIUM DIODES

Point-contact germanium diodes hermetically sealed in glass. Ratings for 25° C. Peak rect. current, 150 ma; av. rect. current, 50 ma. PIV indicates peak inverse DC voltage. Av. shpg. wt., 3 oz.

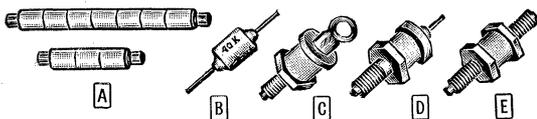
Stock No.	Type	PIV	NET	Stock No.	Type	PIV	NET
5E 805	1N34A	75	.66	5E 881	1N87	30	.39
5E 806	1N38A	120	1.10	5E 882	1N119	75	1.58
5E 807	1N54A	75	1.10				

GERMANIUM DIODE BOOKS

- 40 USES FOR GERMANIUM DIODES. By Sylvania engineers. Has workable circuits and data for 40 important uses of diodes and suggests others. 46 pages. 6x9". **35c**
- 37 K 044. Postpaid in U.S.A.
- ELECTRONIC SHORTCUTS FOR HOBBYISTS. By Sylvania engineers. Tells how to build 24 devices using germanium diodes. Has 40 circuits. 6x9". **35c**
- 37 K 074. Postpaid in U.S.A.
- SYLVANIA CRYSTAL DIODE CIRCUIT KINKS. By Sylvania engineers. 40 tried and proven circuits. Ratings and characteristics of all Sylvania germanium diodes. 35 pages. 6x9". **35c**
- 37 K 091. Postpaid in U.S.A.
- GERMANIUM DIODE IN INDUSTRIAL USES. By Sylvania engineers. Has circuit diagrams, germanium diode installation hints, and germanium code rating and characteristic chart. 42 pages. 6x9". **25c**
- 37 K 124. Postpaid in U.S.A.

Sarkes Tarzian Rectifiers

SILICON RECTIFIERS



Outstanding new development in the field of power conversion and semiconductor devices. Especially useful for applications where rectifier may be subjected to extremes of heat and cold, vibration and shock or where high power capacity in a small size is required. Thermal range from -55° C. to 100° C. without derating. Forward resistance less than one ohm; reverse resistance on the order of 1000 ohms—gives rectification efficiency greater than 99%. Terminals, Types L, M, and SM: fuse type; Types P and K: pigtail leads; Type Q: stud— $\frac{3}{16}$ "-24 thread. *Note:* All DC current ratings are for resistive or inductive loads only except Types 30M, 40M, and K-200 (for capacitive loads also). For these types derate maximum rms input by 50% for a capacitive load. On all other types derate DC current by 20% for capacitive, motor, or battery loads. Type Q current ratings based on proper heat sink design to limit heat of case to 170° C. Type K-200 requires a 10-ohm minimum series resistance. *Peak inverse voltage. †Rated at 100° C. Av. shgp. wt., 3 oz.

Stock No.	Jetec No.	Mfr's Type	Fig.	Max. PIV	RMS Vols	†Max. DC Amps	Overall Size L x Dia.	NET EACH
4A 731	1N1086	20L	A	200	140	1.5	1½x½"	4.07
4A 732	1N1088	40L	A	400	280	1.5	1½x½"	5.96
4A 733	1N1083	10P1	B	100	70	1.5	¾x¾"	1.75
4A 734	1N1056	30P1	B	300	210	1.5	¾x¾"	12.44
4A 735	1N1078	15Q4	E	150	150	15.	1½x2½"	13.82
4A 736	1N1080	30Q4	E	300	210	15.	1½x2½"	19.30
4A 737	1N1082	20Q4	E	200	140	5.	1½x2½"	7.54
4A 850	1N1083	30M	A	300	210	5.	1½x2½"	1.32
4A 739	1N1019	120SM	A	1200	840	4.25	1½x2½"	6.30
4A 740	1N1110	160SM	A	1600	1120	4.	2½x2½"	8.40
4A 851	1N1111	200SM	A	2000	1400	3.75	2½x2½"	10.48
4A 741	1N1113	280SM	A	2800	1960	3.25	3½x2½"	14.70
4A 852	1N1440	20K	B	200	140	6.25	¾x¾"	1.23
4A 853	1N1442	40K	B	400	280	6.25	¾x¾"	1.47
4A 854	.....	K-200	B	360	260	2.00	¾x¾"	.88

NEW HERMETICALLY SEALED SILICON RECTIFIERS

Miniaturized silicon rectifiers—hermetically sealed for full protection against moisture and dust. Stable under extreme conditions of temperature, altitude and shock. Thermal range: -55° to 100° C. without derating. Capacitive loads require 20% derating for all types.

Stock No.	Jetec No.	Mfr's Type	Fig.	Max. PIV	RMS Vols	Max DC Amps	Overall Size L x Dia.	NET EACH
4A 855	1N1029	10N1	B	100	70	5.	¾x¾"	4.68
4A 856	1N1032	30N1	B	300	210	5.	¾x¾"	6.56
4A 857	1N1036	15N2	D	150	105	1.	¾x¾"	5.54
4A 858	1N1039	40N2	D	400	280	1.	¾x¾"	8.33
4A 859	1N1041	10N3	C	100	70	1.	1½x¾"	4.68
4A 860	1N1043	20N3	C	200	140	1.	1½x¾"	5.93
4A 861	1N1047	10N4	E	100	70	1.	¾x¾"	4.68
4A 862	1N1050	30N4	E	300	210	1.	¾x¾"	6.56
4A 863	1N1059	10P2	D	100	70	5.	¾x¾"	7.35
4A 864	1N1062	30P2	D	300	210	5.	¾x¾"	12.44
4A 865	1N1067	20P3	C	200	140	5.	¾x¾"	10.58
4A 866	1N1073	20P4	C	200	140	15.	1½x2½"	10.58
4A 867	1N1077	10Q4	E	100	70	15.	2½x2½"	11.32

HIGH CURRENT SILICON RECTIFIERS

Extremely efficient silicon rectifiers for heavy currents. Special mounting design assures maximum heat transfer. All current ratings based on heat sink design limiting case temperature to 125°—derate 20% for capacitive, motor, or battery loads. All listed have negative bases. Diameters given are for bases. *3" terminal. †4" terminal. All high current silicon rectifiers, including types with positive bases, available on special order—write or phone Allied Industrial Division.



Stock No.	Jetec No.	Mfr's Type	Max PIV	RMS Vols	Max DC Amps	Overall Size L x Dia.	NET EACH
4A 868	1N1159	20RN*	200	140	20	1½x¾"	5.98
4A 869	1N1163	20SN*	200	140	35	2½"	7.54
4A 870	1N1167	20VN†	200	140	100	2½"	21.07
4A 874	1N1264	10WN†	100	70	150	2½x1¼"	25.18
4A 872	1N1265	10XN†	100	70	200	2½x1¼"	29.45
4A 871	1N1266	30WN†	300	210	150	2½x1¼"	46.06
4A 873	1N1266A	30XN†	300	210	200	2½x1¼"	57.33

NEW FULL WAVE PLUG-IN SILICON RECTIFIERS

Outstanding development in rectifier tube replacement. Silicon rectifier plug-ins feature long dependable life and remarkable stability under extreme operating temperatures. Do away with heater power losses. Perform equally well mounted vertically or horizontally. Type S-5011 replaces tube types 80, 82, 83, 83V, 523; Type S-5017, OZ4, 5X4, 5Y4, 6AX5, 6X5; Type S-5018; 5AU4, 5AW4, 5AZ4, 5T4, 5U4, 5V4, 5W4, 5V3, 5Z4; Type S-5019; 5R4; Type S-5023; 6AU4, 6AX4, 6BL4, 6W4, 12AX4, 17AX4, 25W4. All plug-ins fit standard octal sockets except type S-5011 (4-contact socket). *Hermetically sealed. 4 oz.



Stock No.	Jetec No.	Mfr's Type	Max PIV	RMS Vols	Max DC Amps	Overall Size L x Dia.	NET EACH
4A 646	1N1150A	S-5011	1600	1100	.750	2½x1¼"	12.74
4A 647	1N1237	S-5017	1600	1100	.750	2½x1¾"	12.74
4A 648	1N1238	S-5018	1600	1100	.750	2½x1¾"	12.74
4A 649	1N1239	S-5019*	2800	1950	.5	3½x1¼"	20.04
4A 875	1N1262	S-5033	4500	1600	.25	3½x1¼"	20.04

GRAYHILL 17-1 DIODE HOLDER

Crystal diode holder with spring tension clip. Loop terminal and spring clip are formed from one piece of phosphor bronze wire, insuring good contact with the diode. Corrosion-resistant gold-plated clip solders easily. Has provision to prevent turning on chassis. Molded phenolic base (MIL-P-14, Type CFC). 1½x¾x¾". Wt., 2 oz.



45 H 186, NET.....35¢

SELENIUM RECTIFIERS

"Centre-Kooled" selenium rectifiers—premium quality at low cost. Widely used as replacements in radio and TV sets, intercoms, bias supplies, amplifiers, etc. Also excellent for original equipment. Supply plate, filament and bias voltages direct from power line or from transformer. Maximum rms input volts, 130. Conservatively rated to deliver highly dependable and efficient performance. "Centre-Kooled" design assures cool, stable operation. Maximum inverse peak volts, 380. Approximate internal drop, 5 volts. Av. shgp. wt., 5 oz.



Stock No.	Mfr's Type	DC Ma	Size	1 to 4 EACH	5 or More EACH
4A 631	50	50	1½x2½x2½"	.65	.59
4A 616	65	65	1x1x1½"	.82	.74
4A 617	75	75	1x1x1½"	.91	.82
4A 618	100	100	1½x1¼x1½"	1.06	.95
4A 619	100A	100	1x1x1"	.82	.74
4A 620	150	150	1½x1¼x1½"	1.15	1.03
4A 621	200	200	1½x1½x1½"	1.41	1.27
4A 622	250	250	1½x2x1½x1½"	1.47	1.32
4A 685	250A	250	1½x1¼x1½"	1.29	1.16
4A 623	300	300	1½x1½x1½"	1.56	1.40
4A 686	300A	300	1½x1½x1½"	1.38	1.24
4A 624	350A	350	1½x2x1½x2½"	1.47	1.32
4A 627	400	400	2x2x1½"	1.71	1.54
4A 687	400AD	400	1½x1¼x1¼"	1.65	1.48
4A 625	500	500	2x2x1½"	1.97	1.77
4A 688	500AD	500	1½x1¼x1½"	1.71	1.54

MINIATURIZED SILICON RECTIFIERS

Type M500. Extremely small, clip-in silicon rectifier—perfect for TV replacement and miniaturization uses. Lower voltage drop (only 2 v.) results in increased B+, more drive and sweep voltage, and more anode voltage on picture tube for greater clarity. Maximum ratings: AC input, 130 v.; peak inv., 400 v.; DC current, 500 ma; peak current, 5000 ma. Shgp. wt., 4 oz.

4A 697, NET EACH.....1.47
10-49, NET EACH.....1.37

Type M150. Similar to above but 150 ma. max. current. For replacement use in portable radios, etc. Will replace Sarkes Tarzian Models 65 and 75 selenium rectifiers. In plastic container, complete with two clips, one 10-ohm current resistor. Shgp. wt., 4 oz.

4A 696, 10 to 49, EACH....83¢ 1 to 9, NET EACH.....93¢



Conversion Kit. Exceptionally handy unit for use in TV sets, or any equipment now using selenium or full wave vacuum tube rectifiers. Allows conversion to silicon rectifiers with resulting higher efficiency, comparative freedom from breakdown, easier future replacement. Excellent for use by TV servicemen for modernization of older model TV sets or other types of electronic equipment. Also excellent as part of original equipment where miniaturization and reliability are required. Rectifiers clip in or out like fuses. Conversion kit includes 2—M500 silicon rectifiers, dual mounting clip, and all necessary hardware. ¾x1½x1½". Wt., 6 oz.

4A 699 NET.....3.76

Single Mounting Clip. Overall size, ¾x1½x1½". Shgp. wt., 2 oz.

4A 669, NET.....12¢

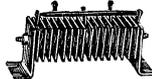
Dual Mounting Clip. Overall size, ¾x1½x1½". Shgp. wt., 4 oz.

4A 670, NET.....24¢



FULL-WAVE POWER RECTIFIERS

An excellent selection of single-phase, full-wave selenium rectifier stacks for general-purpose and industrial use. Compact, lightweight and economical. Famous for dependability and long life. "Centre-Kooled" design for ample current capacity without overheating. Convenient solder-type terminals for use in center-tapped or bridge-type hook-ups. Cover an extremely wide range of industrial applications. Ideal for: electro-plating, motor control, DC filament supplies, battery charging, DC relay supplies, DC supplies for telephone equipment or railway and traffic control signals, general laboratory use, etc. *Center-tapped. †Bridge-connected. Av. shgp. wt., 10 oz.



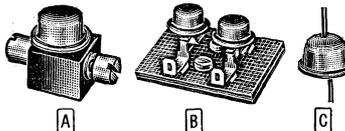
Stock No.	Mfr's Type	Max. Amps.	Max. AC Input V.	DCV Output	Size	NET EACH
4A 700	†D-10	2	13	6-10	3x2½x3"	3.82
4A 701	†D-12	12	13	6-10	4x2½x4"	5.19
4A 702	†D-14	2	13	6-10	5x2½x6"	6.47
4A 710	†D-16	22.5	13	6-10	4½x2½x12"	11.22
4A 703	†D-17	2	26	6-20	3x3½x3"	6.52
4A 704	†D-18	4	26	6-20	4x3½x4"	8.57
4A 705	†D-19	4	26	6-20	4x4x4"	9.06
4A 706	†D-20	8	26	6-20	5x3½x6"	11.02
4A 707	†D-21	12	26	6-20	5x4x6"	11.51
4A 711	†D-23	22.5	26	6-20	4½x4x12"	20.48
4A 708	†D-24	2	26	6-20	3x4½x3"	11.42
4A 709	†D-25	4	52	20-40	4x4½x4"	15.58
4A 712	†D-26	8	52	20-40	4x6½x4"	26.12
4A 713	†D-30	22.5	52	20-40	4½x6½x12"	37.39
4A 714	†D-39	1	130	60-100	2x5½x2"	17.25
4A 715	†D-40	2	130	60-100	3x8½x3"	22.73
4A 716	†D-45	1	156	100-120	1.6x6x1.6"	12.74
4A 717	†D-46	1	156	100-120	2x6x2"	19.99
4A 718	†D-47	2	156	100-120	3x10½x3"	26.41
4A 719	†D-48	4	156	100-120	4x10½x4"	39.10
4A 720	†D-49	6	156	100-120	4x15½x4"	39.35

Industrial Buyers, write or phone Allied's Industrial Division for Quantity OEM Prices on all Sarkes Tarzian Rectifiers

Silicon and Selenium Rectifiers

I T & T—FEDERAL RECTIFIERS

SILICON RECTIFIERS



Versatile plug-in and solder-in type rectifiers. Permit use of the same compact rectifying unit for a wide range of television, industrial and military uses. Miniaturized units (1/4" x 1/2" dia.) are hermetically sealed against dust and humidity. Rectifiers are stable from -55° to 100° C.

- A "Kwik Klip" Kits.** Have fuse-type holder for easy clip-in. Type HF504K is rated at 500 ma DC at 130 v. rms. Peak inverse voltage, 400 v. Includes 2 rectifiers. Type HF154K is similar except for current rating of 150 ma. DC. Has one rectifier. Shpg. wt., 2 oz. **3.67**
- 4 A 904.** Type HF504K. List, \$6.30. **NET**.....93¢
- 4 A 901.** Type HF154K. List, \$1.60. **NET**.....93¢
- B Universal Replacement Kits.** Have 4-way mounting design. Type HE504U rated 500 ma DC at 130 v. rms. Peak inverse voltage, 400. Includes 2 rectifiers. Type HE154U is similar except for current rating of 150 ma. DC. Has one rectifier. Shpg. wt., 2 oz. **3.77**
- 4 A 902.** Type HE504U. List, \$6.40. **NET**.....93¢
- 4 A 903.** Type HE154U. List, \$1.60. **NET**.....93¢
- C Axial Lead Types.** For direct-soldering into circuits. 1 1/2" leads. Type HA504 is rated at 500 ma DC at 130 v. rms. Peak inverse voltage, 400. Type HA154 is similar but rated at 150 ma DC. 2 oz. **1.57**
- 4 A 905.** Type HA154. List, \$1.60. **NET**.....93¢
- Parallel Lead Types.** For above Universal Replacement Kit. Type HE504 is replacement unit for HE504U. Type HE154 is for HE154U. 1 1/2" leads. Shpg. wt., 2 oz. **1.62**
- 4 A 906.** Type HE504. List, \$2.75. **NET**.....93¢
- 4 A 907.** Type HE154. List, \$1.60. **NET**.....93¢

PACKAGED-POWER RECTIFIERS



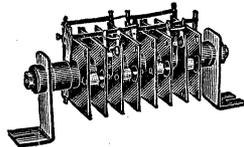
Exceptionally rugged, high current output type selenium rectifiers. Especially suitable for industrial use but can be used for practically any AC or DC conversion need. Current output on some types as high as 24 amperes. Single phase, full wave bridge type except *single phase full wave center-tap. Ratings shown are for 35° C. ambient temperature. Av. shpg. wt., 8 oz.

Stock No.	Mfr's Type	Max. DC Output		Max AC Input V.	Size	NET EACH	
		Volts	Amps			1-9	10-24
4A781	010*	10	3	13	3x3x1 1/2"	4.70	4.49
4A782	012*	10	3	13	4x4x1 1/2"	5.88	5.61
4A783	014*	10	12	13	6x5x1 1/2"	9.41	8.95
4A784	016	10	24	13	10x6x2 3/8"	18.70	17.77
4A785	211	20	3	26	3x3x2 1/2"	7.35	7.00
4A786	213	20	6	26	4x4x2 1/2"	8.62	8.19
4A787	215	20	12	26	6x5x2 3/8"	13.72	13.04
4A788	217	20	24	26	10x6x3 3/8"	26.46	25.14
4A789	310	40	3	52	3x3x3 3/8"	11.09	10.54
4A790	312	40	6	52	4x4x5"	13.99	13.29
4A791	314	40	12	52	6x5x5 1/4"	22.58	21.45
4A794	414	80	12	78	6x5x7 3/8"	31.36	29.80
4A797	514	60	12	104	6x5x9 3/8"	40.12	38.11
4A908	711	100	1	130	2x2x5 1/2"	10.22	10.22
4A909	712	100	2.4	130	3x3x6 3/8"	22.77	21.64
4A910	810	120	3	156	1 1/2 x 1 1/2 x 4 3/8"	8.78	8.34
4A911	811	120	6	156	1 1/2 x 1 1/2 x 4 3/8"	9.96	9.46
4A912	812	120	1	156	2x2x6 1/2"	12.76	12.12



GENERAL ELECTRIC RECTIFIERS

SILICON RECTIFIER STACKS



GE's famous 4JA411 series. Feature excellent regulation, high efficiency and low leakage. Forward voltage drops less than 1 volt per cell, efficiency up to 99%. Almost negligible reverse losses make them excellent for all magnetic amplifier applications. Have wide range of operating temperature (-65° to 170° C.). Compact space-saving design, require no fins or insulation. 2-bolt mtg. Av. shpg. wt., 12 oz.

Stock No.	Mfr's Type	AC Input Volts	DC Output		Size	NET EACH
			Volts	Amps		
4 A 950	AB1AD1	70	62	3	2 1/2 x 1 1/2 x 3 1/2"	8.62
4 A 951	AB1AD2	70	62	6	2 1/2 x 1 1/2 x 3 1/2"	15.48
4 A 952	BB1AD1	140	125	3	2 1/2 x 1 1/2 x 3 1/2"	10.09
4 A 953	BB1AD2	140	125	6	2 1/2 x 1 1/2 x 5 1/2"	18.13
4 A 954	CB1AD1	210	188	3	2 1/2 x 1 1/2 x 3 1/2"	12.35
4 A 955	CB1AD2	210	188	6	2 1/2 x 1 1/2 x 5 1/2"	22.24
4 A 956	DB1AD2	280	250	6	2 1/2 x 1 1/2 x 5 1/2"	31.06
4 A 957	EB1AD1	350	314	3	2 1/2 x 1 1/2 x 3 1/2"	24.50
4 A 958	CB2AD1	420	376	3	2 1/2 x 1 1/2 x 5 1/2"	22.24

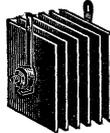
GERMANIUM TV RECTIFIERS

Germanium TV power rectifiers for low-voltage power supplies. Feature compact size, increased output voltage, long life and easy installation. Extremely low voltage drop. Types 1N1005, 1N1007, and 1N1013 require single mounting hole. Type 1N573 requires two mounting holes—intended for original equipment. All half-wave except *dual rectifier wired as voltage doubler. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Max. AC Input V.	Peak Inverse V	DC Output Ma.	Full Load Voltage Drop	NET EACH
4 A 743	1N1007	130	380	350	.3	1.91
4 A 689	1N1008	130	380	400	.3	2.15
4 A 744	1N1013*	130	380	250	.15	2.99
4 A 745	1N573	130	380	250	.15	1.52

SELENIUM RECTIFIERS

MINIATURE TYPE



An excellent selection of top-quality selenium rectifiers at unusually low prices. Fully miniaturized for limited space applications. Ideal for replacement use and for original equipment. Types 1016 and 1017 are bridge-connected. Internal voltage drops: Type 1001—1.2 volts; Types 1015, 1016, 1017—2.4 volts; Types 1002A, 1003A, 1004A, 1101A, 1005, 1159—7 volts; Types 1007, 1008, 1009, 1014—9 volts. †Maximum rms input voltage. Rectifiers with letter A in type number have locking lug. *Ultra-compact tubular rectifier; enclosed in paper tube. Has 1 1/2" leads for easy installation. Average shpg. wt., 5 oz.

Stock No.	Mfr's Type	DC MA	† RMS	Size	NET EACH	
					1-4	5-Up
4 A 662	1159	20	130	*1/2" dia. x 3/4"	.74	.67
4 A 606	1002A	65	130	1x1x3/8"	.74	.67
4 A 602	1003A	75	130	1x1x3/4"	.78	.70
4 A 668	1001	75	20	1x1x3/8"	.40	.36
4 A 913	1007	75	160	1x1x3/8"	2.22	2.00
4 A 914	1008	100	172	1 1/2 x 1 1/2 x 2 1/8"	2.72	2.45
4 A 915	1014	100	160	1 1/2 x 1 1/2 x 2 1/8"	1.26	1.18
4 A 600	1004A	100	130	1 1/2 x 1 1/2 x 3/4"	.86	.86
4 A 661	1101A	100	130	1x1x1 1/2"	.92	.87
4 A 603	1005A	150	130	1 1/2 x 1 1/2 x 1/2"	1.00	.90
4 A 916	1015	150	25	1x1x1"	1.22	1.10
4 A 917	1009	200	172	1 1/2 x 1 1/2 x 2 1/2"	3.70	3.33
4 A 666	1016	300	25	1 1/2 x 1 1/2 x 3/8"	1.28	1.15
4 A 660	1017	600	25	1 1/2 x 1 1/2 x 3/8"	1.46	1.31

Type 1013 Battery Charger Rectifier. A low-priced and highly efficient unit. Excellent for charging small 2 and 6-volt batteries, such as those used in electronic photoflash equipment and self-charging portable radios. Max. rms input volts, 18. Max. DC, 450 ma. 1.2 v. internal drop. Overall size, 1 1/2 x 1 1/2 x 1/4". Shpg. wt., 4 oz. **66c**

Type 1612 Battery Charger Rectifier. Lightweight and dependable. Ideally suited for trickle charging of 6-volt auto batteries. Also suitable for DC filament supplies. Max. rms input volts, 26. Max. DC, 1800 ma. 1.2 v. internal drop. Overall size, 4/4 x 2 1/2 x 3/8". Shpg. wt., 6 oz. **1.72**

Federal Miniature Selenium Rectifier Handbook. Extremely valuable and informative handbook for radio-TV servicemen, amateurs and experimenters. Includes full specifications and circuit applications. 80 pages. Size, 8 1/2 x 4 1/2". **50c**

37 K 106. Postpaid in U.S.A......50c

HI-DENSITY TYPE RECTIFIERS

Top-quality selenium rectifiers. Advanced design permits remarkably high current capacity and extremely compact size. Excellent for replacement use and for original equipment. Eliminate installation problems where space is very limited. Maximum rms input volts, 130. Maximum peak inverse volts, 380. Internal drop 7 volts. All have locking lug. Av. shpg. wt., 4 oz.

Stock No.	Mfr's Type	DC MA	Size	NET EACH	
				1-4	5-Up
4 A 918	1234A-H	65-75	1 1/2 x 1 1/2 x 2 1/2"	.65	.58
4 A 919	1235A-H	100-150	1 1/2 x 1 1/2 x 2 1/2"	.85	.78
4 A 675	1236A-H	250-300	1 1/2 x 1 1/2 x 3 1/2"	1.17	1.05
4 A 676	1241A-H	350-400	1 1/2 x 1 1/2 x 3 1/2"	1.53	1.38
4 A 677	1237A-H	450-500	1 1/2 x 1 1/2 x 3 1/2"	1.76	1.58
4 A 920	1242A-H	550-600	1 1/2 x 1 1/2 x 3 1/2"	1.94	1.74

HIGH CURRENT SILICON RECTIFIERS



- Built for Long Useful Life
- Withstand High Temperatures
- Easy-Installation Design

Expertly designed silicon power rectifiers. Withstand maximum surge currents of 900 amps, 60 cps. Operating temperatures as high as 200° C. Capable of handling DC outputs up to 85 amps per rectifying unit at lower temperatures. Cathode connection is by threaded 1 1/2" stud; anode connection is terminal lug for nut and bolt. Current specifications are at 120° stud temperature. 4 1/2 x 1 1/2 x 3/4" dia. Wt., 4 oz.

Stock No.	Mfr's Type	PIV	Max. I @120°	NET EACH
4 A 960	4JA60B	200	70A	29.15
4 A 961	4JA60C	300	70A	38.95
4 A 962	4JA60D	400	70A	51.94
4 A 963	4JA60F	500	70A	14.70
4 A 964	4JA62A	100	40A	14.70
4 A 965	4JA62B	200	40A	19.35
4 A 966	4JA62C	300	40A	25.37
4 A 967	4JA62D	400	40A	40.67
4 A 968	4JA62F	50	40A	11.27

ALLIED IS SEMICONDUCTOR HEADQUARTERS

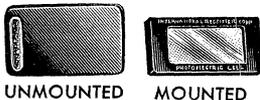
- OEM Prices
- Same-Day Shipment
- Largest Stocks
- Latest Types Available
- Famous-Name Brands
- Widest Selection

Industrial Users: Allied stocks a complete line of famous name semiconductors for industrial applications. Write, wire, or phone your order to our Industrial Division for immediate attention.

Rectifiers and Photocells

PHOTOELECTRIC CELLS INTERNATIONAL RECTIFIER SELF-GENERATING PHOTO-CELLS

- Require No External Power
- Sunlight Output: 0.2-60 Ma
- Sensitive to White, Colored, or Ultra-Violet Light



UNMOUNTED MOUNTED

Selenium "barrier-layer" self-generating photoelectric cell sun batteries. Convert light energy into electrical energy without any auxiliary source of power for proper operation. Outputs in average sunlight range from 0.2 to 60 ma. Excellent for automatic controls, colorimeters, door control and burglar alarms, exposure meters, smoke indicators, and many others. Spectral sensitivity corresponds very closely with that of the human eye; suitable also for measurements requiring an ultra-violet source. Optimum load resistance ranges from 10 to 10,000 ohms. All outputs in table below taken at 100 foot candle illumination with 100-ohm load. Wt., 2 oz.

Stock No.	Type	Size	Style	µa	NET
7 E 732	A-2M	3/32" dia.	Mounted	13	5.14
7 E 733	A-5	1 1/16" dia.	Unmounted	250	1.96
7 E 734	A-10	1 3/8" dia.	Unmounted	500	4.41
7 E 735	A-15	2" dia.	Unmounted	750	5.88
7 E 736	B-2	2 3/32x7/16"	Unmounted	75	.98
7 E 737	B-5	1 7/16x4 1/16"	Unmounted	220	1.96
7 E 738	B-10	1 11/16x7/8"	Unmounted	350	2.45
7 E 739	B-15	1 11/16x1 1/16"	Unmounted	750	5.88
7 E 740	B-10M	1 11/16x7/8"	Mounted	350	6.96

Type B-2-M. Self-generating selenium photocell sun battery. Gives 2 ma output in average sunlight, 50 microamperes at 100 footcandles and 100 ohms resistance. Uses B-2 cell described above with right-angle mounting bracket. Use with a meter as a light-measuring device. Also lends itself to many other applications, such as sun-powered electronic equipment. Mounted. Sizes, 2 3/32x7/16". Shpg. wt., 2 oz.

7 E 731, NET..... 1.47

CLAIREX PHOTOCELLS

Highly efficient crystal photocell. Extremely sensitive to visible light. Type CL-2 is made of cadmium sulphide; Type CL-3 is made of cadmium selenide and is exceptionally sensitive in the red and near infra-red region of the spectrum. Both types have a maximum rating of 300 volts. AC or DC. Sensitivity of CL-2, 100 µa at 100 v. at 2 footcandles; time constant, 100 ms. at 10 ms, 1 footcandle at 150 ms. Sensitivity of CL-3, 600 µa at 2 footcandles; time constant, 100 footcandles at 1 1/2 ms, 1 footcandle at 15 ms. Sizes: 1/4" diameter by 1/2" long. Shpg. wt., 3 oz.

7 E 881, CL-2, NET..... 3.50

7 E 882, CL-3, EACH..... 3.50



HOFFMAN SILICON PHOTOCCELL

Type P-100. Photocell for use in countless photometric applications. Replaces older type selenium cells and operates with greater efficiency. Features high output—in sunlight, 1/2 volt open circuit; 7 mw with 12 ohm load. Sufficient to operate sensitive relays—no auxiliary power needed. Operates on near infrared as well as visible light. Amount of generated current depends upon intensity of incident illumination. Very durable—unaffected by moisture or exposure to weather. 1x1x3/32". Fits standard octal socket. Wt., 4 oz.

77 E 063, NET..... 4.00



HOFFMAN SILICON SOLAR CELL

Type S-1A. Silicon junction solar energy converter. Developed by Bell Telephone Labs. Offers countless uses. Extremely compact, only 1 1/4" diameter by 3/16" thick—ideal for miniaturized equipment. High output—under direct sun sunlight measures 0.3 volts across 3.0 ohm load. No auxiliary power source needed. Under optimum conditions will produce up to 35 mw, electrical power from solar energy. Will operate on infrared light. High stability and rugged construction—cannot oxidize or corrode. No deterioration due to atmospheric conditions. Completely unaffected by moisture or humidity. May be banked in series or parallel arrangements in order to obtain increased voltage or current output. Shpg. wt., 4 oz.

77 E 029, NET..... 6.00



PHOTOCCELL-SUN BATTERY HANDBOOK

An excellent handbook for technicians, experimenters and engineers. Thoroughly describes the applications and basic circuits in which photocells and sun batteries can be effectively used. Typical chapters include: Light-Powered Devices, Photometers, Unusual Relays, Light Beam Communication, 9 chapters, 58 pages. Size, 5 1/2x9".

37 K 129, Postpaid in U.S.A..... 1.50

INTERNATIONAL RECTIFIER

INDUSTRIAL POWER RECTIFIERS

- Long Life, Compact Size, Light Weight
- Heavy Current Overload Capacity
- Low Power Consumption—High Efficiency



Selenium power rectifiers. For all equipment having high current requirements. Outstanding features: Heavy current overload capacity—up to 10 times rated load for intermittent duty; stable characteristics, with voltage regulation to within 10% or less and unity power factor. Have low forward resistance and negligible leakage and aging. Comparatively low power consumption due to high efficiency—from 65% to 92%. Suitable for design and replacement purposes in industrial and laboratory equipment. Typical uses include: Heavy duty electroplating, general purpose power supplies, magnetic amplifiers, motion picture projectors, cathodic protection and battery chargers. Rugged metallic construction with interlocking assembly prevents plate rotation and lug misalignment. Have moisture and fume-resistant protective coating and self-healing rectifying layer for long life. Wide operating temperature range; all ratings constant up to frequency of 1000 cps. Spring contact assembly compensates for alternate expansion and contraction due to large temperature differentials. Ratings may be increased through the use of fan cooling or oil immersion. Explanation of symbols in table: *Center-tapped common cathode. †Full wave bridge-connected. ‡Half-wave type. For prices on quantity lots of 25 or more, write or phone Allied's Industrial Division.

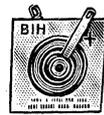
Stock No.	Mfr's Code No.	DC Output		AC Input Volts	Size	Shpg. Wt.	NET EACH			
		Volts	Amps.				1-4	5-9	10-24	
4 A 800	C1C1SDAGX	10*	.7	26CT	1 1/2 x 1 1/2 x 1 1/8"	3 oz.	2.65	2.25	1.99	1.51
4 A 801	L1C1SDAGX	10*	1.5	26CT	2x2x1 3/8"	3 oz.	3.85	2.85	2.51	2.11
4 A 802	D1C1SDAGX	10*	3	26CT	3x3x1 3/8"	1 lb.	4.60	3.61	3.21	3.41
4 A 803	B1B1SDAGX	20†	.4	26	1 1/2 x 1 1/2 x 1 1/2"	3 oz.	3.35	2.85	2.51	2.11
4 A 804	C1B1SDAGX	20†	.7	26	1 1/2 x 1 1/2 x 1 1/2"	3 oz.	3.70	3.15	2.78	2.38
4 A 805	L1B1SDAGX	20†	1.5	26	2x2x1 1/2"	3 oz.	4.90	4.17	3.68	3.18
4 A 833	D1B1SDAGX	20†	3	26	3x3x2 3/8"	2 lbs.	6.80	5.78	5.10	4.50
4 A 806	F1B1SDAGX	20†	9.5	26	6x5x3 3/4"	2 1/2 lbs	15.40	12.33	10.88	9.88
4 A 807	B2B1SDAGX	40†	.4	52	1 1/2 x 1 1/2 x 2 3/8"	3 oz.	5.20	4.42	3.90	3.40
4 A 808	C2B1SDAGX	40†	.7	52	1 1/2 x 1 1/2 x 2 3/8"	3 oz.	5.85	4.97	4.39	3.96
4 A 809	L2B1SDAGX	40†	1.5	52	2x2x3"	2 1/2 lbs	7.95	6.76	5.96	5.36
4 A 810	D2B1SDAGX	40†	3	52	3x3x4 1/4"	2 1/2 lbs	11.20	9.52	8.40	7.40
4 A 811	P2B1SDAGX	40†	5.5	52	4x4x4 1/4"	2 1/2 lbs	14.35	12.20	10.76	9.66
4 A 812	H2B1SDAGX	40†	15	52	7 1/4 x 6 1/4 x 5 3/8"	4 1/2 lbs	31.85	27.07	23.89	21.81
4 A 815	B5B1SDAGX	100†	.3	130	1 1/2 x 1 1/2 x 4 9/16"	3 oz.	10.85	9.22	8.14	7.44
4 A 816	C5B1SDAGX	100†	.6	130	1 1/2 x 1 1/2 x 4 9/16"	2 1/2 lbs	12.20	10.37	9.15	8.15
4 A 817	C6B1SDAGX	120†	.6	156	1 1/2 x 1 1/2 x 4 9/16"	1 lb.	14.30	12.16	10.73	9.73

BATTERY CHARGING TYPES

Stock No.	Mfr's Code No.	DC Output		AC Input Volts	Size	Shpg. Wt.	NET EACH			
		Volts	Amps.				1-4	5-9	10-24	
4 A 818	D-116G	10§	2	26	3x3x3 1/2"	3 oz.	1.65	1.40	1.24	1.14
4 A 819	D-117P	10§	2.7	26	4x4x3 1/2"	1 lb.	2.00	1.70	1.50	1.40
4 A 820	D-241G	10§	6	26	6x5x3 1/2"	1 lb.	2.75	2.34	2.06	1.86
4 A 821	D-240G	10§	9	26	7 1/4 x 6 1/4 x 3 1/2"	1 lb.	3.65	3.10	2.74	2.64

MINIATURE SELENIUM RECTIFIERS

- For Small Power Applications
- Single Plate—Compact
- Voltage Regulation From 15-20%



Miniature selenium rectifiers. Used for small power applications where relatively low voltage is required. Uses include bias supplies, DC filament supplies, solenoid and relay power supplies, 2 and 6-volt battery chargers for self-charging portables, trickle battery chargers, etc. All types rated at 25 volts RMS max., except Type Q4B which is rated at 130 volts RMS max. "H" in type number indicates single plate half wave rectifier; "B" in type number indicates full wave, bridge rectifier. *Series "H" rated for minimum resistive load shown. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Max. DC Ma.	Min. Series Load Ohms	Size	NET EACH			
					1-4	5-9	10-24	25-49
4 A 822	Q1H*	65	47	4 3/4 x 4 3/4 x 3/16"				.39
4 A 823	A1H*	100	22	1 x 1 x 1/8"				
4 A 824	B1H*	150	15	1 1/2 x 1 1/2 x 3/16"				
4 A 825	C1H*	250	5	1 1/2 x 1 1/2 x 3/16"				
4 A 826	M1H*	500	5	2x2x3/16"				
4 A 827	Q1B	100	.....	4 3/4 x 4 3/4 x 3/16"			
4 A 828	A1B	100	.....	4 3/4 x 4 3/4 x 1/16"			
4 A 829	Q4B	180	.....	1 x 1 x 3/4"			
4 A 830	B1B	300	.....	1 1/2 x 1 1/2 x 3/4"			
4 A 831	C1B	600	.....	1 1/2 x 1 1/2 x 3/4"			
4 A 832	M1B	1200	.....	2x2x3/4"			

TV-500 "UNISTACK" SILICON RECTIFIER

- Universal Replacement for Rectifiers Up to 500 Ma
- Supplied Complete With All Mounting Hardware
- Servicemen Can Centralize Stocks, Reduce Inventory



Universal replacement silicon rectifier—directly replaces any present radio or television power supply requiring up to 500 milliamperes. Complete with all necessary hardware—stud, nut and universal mounting bracket for convenient mounting in any receiver. Absolutely no conversion is necessary for installation. Enables the serviceman to centralize his stocks of television rectifiers into a stock of just one type, thus making possible quick replacements without waiting.

Easily lends itself to various power supply applications, such as half-wave, voltage doubler, or voltage tripler uses. Maximum RMS AC voltage, 117 volts. DC output voltage, 135 volts. DC output current, 500 milliamperes maximum. Has eyelet construction; with locking lug which may be bent out of the way or clipped off if not needed. Also useful for amateur and experimental applications. Positive terminal lug is clearly marked for easy identification. Overall size, less lugs, 2x2x1 1/8". Shpg. wt., 2 oz.

4 A 730, 1 to 4, NET EACH..... 2.20

5 or More, EACH..... 2.01

INTERNATIONAL RECTIFIER HIGH-VOLTAGE SELENIUMS

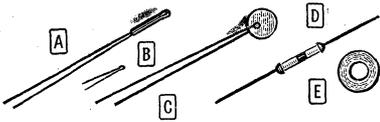
High-voltage, cartridge-type selenium rectifiers. For replacement in TV cameras, Geiger counters, computing machines, etc. For applications requiring high DC voltages at comparatively low current. Handle up to 5 ma. Cartridge terminals fit in standard 30-ampere size fuse clips. Meet JAN specifications to withstand humidity, altitude, vibration and shock. Designed for long life, extreme dependability. Dia., 1/8". Av. shpg. wt., 8 oz.



Stock No.	Mfr's Type	Max. C. Input	DCV Output	Peak Inverse V	Length	NET EACH			
						1-4	5-9	10-24	25-49
4 A 690	V50HF	1650	1000	2400	2 5/8"	7.40	6.29	5.55	5.18
4 A 691	V75HF	2475	1500	3600	3"	10.40	8.84	7.80	7.28
4 A 692	V100HF	3300	2000	4800	4"	13.40	11.39	10.05	9.38
4 A 693	V125HF	4125	2500	6000	4 1/2"	16.40	13.94	12.30	11.48

Industrial & Service Items

NEW FENWAL THERMISTORS



- High Negative Temperature Coefficient

- Precision-Engineered for High Reliability
- Extremely Stable; High Shock Resistance
- For Measurement and Control Applications

Thermal resistors—resistors with a high negative temperature coefficient. Ideal for temperature measurement, temperature compensation, temperature control, liquid level measurement, time delay, remote control, switching, power measurement and power level control, thermal conductivity instruments and others. These high-quality thermistors are precision-engineered components, carefully designed to exacting specifications. Feature reliability, extreme stability, and high shock resistance. Have practically unlimited life under normal operating conditions. All bead types listed below are glass-coated—useful for insertion probes, UHF power measurements, etc. Washer types have hole in center—may be mounted on a bolt with terminals between them and connected in series or parallel. This permits a compact arrangement for tight spaces. Disc and rod types may be used up to 125° C.; washers up to 150° C.; beads up to 600° F. Av. shpg. wt., 1 oz.

Stock No.	Mfr's Type	Similar to Fig.	Style	Ohms at 25° C.	Res. Ratio 0° C.: 50° C.	NET EACH
9 E 909	GA51J1	B	Bead	100,000	10.3:1	2.70 2.16
9 E 910	GA51P2	A	Bead	100,000	10.3:1	2.65 2.12
9 E 911	GB32J2	A	Bead	2000	7.3:1	2.70 2.16
9 E 912	GB32P8	A	Bead	2000	7.3:1	2.75 2.20
9 E 913	GC32L1	B	Bead	2000	5.7:1	3.75 3.00
9 E 914	KA31L1	.....	Disc	1000	9.1:1	.85 .68
9 E 915	LB21J1	C	Disc	100	6.9:1	.85 .68
9 E 916	QA51J1	D	Rod	100,000	9.1:1	1.25 1.00
9 E 917	RB33L1	D	Rod	3150	7.1:1	1.20 .96
9 E 918	RB41L1	D	Rod	10,000	7.1:1	1.35 1.08
9 E 919	WA21W1	E	Washer	100	9.1:1	1.25 1.00
9 E 925	WB11W1	E	Washer	10	6.9:1	1.25 1.00



Model G-200 Experimenters Thermistor Kit. All of above—12 thermistors (worth \$22.55) for use in circuit design, experimental work, or for familiarization with thermistors. Each thermistor is packed with complete data including resistance-temperature and voltage-current curves; ratio of resistance from 0° to 50° C.; alpha temperature coefficient at 25° C.; dissipation constant, and time constant. Shpg. wt., 10 oz.
9 E 926. NET.....19.95

TELEMETER MAGNETICS FERRITE CORES



- Extremely Small, Compact
- Both Memory and Switching Types

Ferrite magnetic memory and switching cores—permanent magnets in which polarity can be reversed by extremely low magnetizing force. Typical applications include use in digital computers, high-speed counter, radiation counters, shift registers, juke boxes, information storage buffers, industrial controls and numerous other similar devices. Types TM501-10, TM501-40, TM802-10, TM802-40, TM1002-10, TM1002-40 are rectangular hysteresis loop storage cores; Types TM1801-10, TM1802-50, TM3751-10 and TM3752-50 are ferrite switch cores. *Indicates: 1.2 oersteds coercive force; 1.85 oersteds optimum turn-over magnetomotive force; 1800 gauss saturation flux density; 1680 gauss residual flux density. †Indicates: 0.72 oersteds coercive force; 0.9 oersteds optimum turn-over magnetomotive force; 2100 gauss saturation flux density; 1900 gauss residual flux density. Circuits employing these cores are described in the February 1964 issue of Electronics magazine. Av. shpg. wt., per box, 4 oz. 25 cores per box.

Stock No.	Mfr's Type	Outside Diameter	Switch Time, Microseconds	NET PER BOX
9 E 888	†TM3752-50	.375"	5	25.00
9 E 889	†TM1802-50	1.80"	5	25.00
9 E 890	†TM1002-40	1.00"	5	11.25
9 E 891	†TM802-40	.080"	5	11.25
9 E 892	†TM501-40	.050"	5	11.25
9 E 893	*TM3751-10	.375"	1.2	25.00
9 E 894	*TM1801-10	1.80"	1.2	25.00
9 E 895	*TM1002-10	1.00"	1.2	11.25
9 E 896	*TM802-10	.080"	1.2	11.25
9 E 897	*TM501-10	.050"	1.2	11.25

ADC TERMINAL BLOCKS



Especially useful in design of telephone circuits, computers, and other applications with very large numbers of circuits. Each unit has a one-piece molded phenolic base. Individual terminal separators are also of molded phenolic. Polished surface makes for easy removal of solder flash after wiring. Terminals are .040 inch plated brass. Rows of terminals are graduated in length, and identified by numbering along the top row. Available with 1-6 rows, 20 terminals per row. Base dimensions: 3x3/4 inch. Height depends on number of rows. Av. shpg. wt., 1 1/2 lbs.

Stock No.	Mfr's Type	Rows of Terminals	No. of Terminals	Height	NET EACH
40 H 694	PJ-101	2	20	1 1/2"	3.45
40 H 695	PJ-102	2	20	2 1/2"	4.65
40 H 696	PJ-103	3	60	2 1/4"	5.85
40 H 697	PJ-104	4	80	2 1/4"	7.05
40 H 698	PJ-105	5	100	3 3/8"	8.25
40 H 699	PJ-106	6	120	3 3/8"	9.45



EL-TRONICS HUMIDITY SENSOR

- Extremely Fast Response
- Highly Stable to 140° F.
- Simplifies Humidity Control

An extremely reliable humidity sensing element. Made of a conducting plastic which changes resistance in the presence of water vapor. Easy to wire in—only 2 connections. Very stable in ambient temperatures to 140° F. Readings are 100% repeatable and accurate within 3%. Fast acting—response in 1 minute for 20% humidity change; 3 minutes for 90% change. Only 3/16" x 1/8" x 1/16" thick. With specifications, relative humidity/resistance graph and sample circuitry. Operates from 6-20 volts AC. Shpg. wt., 2 oz.
7 E 751. NET.....8.00



CLAROSTAT UNIVERSAL RESISTOR TUBES

Clarostat resistor tubes for voltage-reducing applications. For replacement of all AC-DC tubes beginning with letters BK, BL, K, L and M; and corresponding numbers and letters given below. Order tubes according to letter and numeral designation of tube being replaced. For example, to replace a BK-23-A tube, or an M-35-D tube, the Clarostat Type 23-55-A would be used, etc. Shpg. wt., 6 oz.

Stock No.	Mfr's Type	Tube Numbers From:	Ending in Letter:	NET EACH
9 E 853	23-55-A	23 to 55	A, B, C, D	1.91
9 E 855	23-55-F	23 to 55	F, G, H	
9 E 856	60-92-A	60 to 92	A, B, C, D	



JFD TV, ADJUSTABLE AND STEP-DOWN BALLASTS

TV Ballasts. Quality plug-in ballasts for AC-DC TV sets. Perforated shells for maximum dissipation and radiation of heat. Large insulating surfaces and heavy resistance elements provide highly dependable service. Shpg. wt., 6 oz.

Stock No.	Mfr's Type	For	Stock No.	Mfr's Type	For	NET EACH
9 E 860	17A470303	Motorola	9 E 862	397022	Emerson	2.94
9 E 861	17A485459	Motorola	9 E 863	397023	Emerson	

Adjustable Types. For virtually all replacement needs. 8-prong. 6 oz.

9 E 885. Replaces ballasts beginning with K, L, M, BK, BL, BM having numbers 6-42, ending with A, B, C, D, F, G, or H.
NET.....2.06

9 E 886. Replaces ballasts beginning with K, L, M, BK, BL, BM having numbers 45 through 105 and ending with A, B, C, D, F, G, H, S-1, 2 or 3.
NET.....2.06



AMPERITE REGULATOR TUBES

For Replacement Use in Industrial Electronic Equipment

Amperite regulator tubes have achieved wide acceptance for current-voltage regulating applications in industrial electronic equipment. Built to rigid specifications to assure extremely dependable service. Listed below are special purpose ballast tubes used in original industrial equipment and identified by Amperite type numbers. Av. shpg. wt., 4 oz.

Stock No.	Type	EACH	Stock No.	Type	EACH
9 E 981	1H22	1.76	9 E 987	6H6	1.76
9 E 984	3-4		9 E 991	9-4	
9 E 979	3-14		9 E 993	4H4C	
9 E 985	6-4		9 E 999	10-25	



CONSOLIDATED AC-DC RESISTANCE LINE CORDS

Heavily insulated resistance line cords. Have color-coded tinned leads. Supply proper voltage for tubes wired in series according to 115 volt lines. 135, 160, 180 and 200 ohm cords can also be used for 1-lamp, 15 and 20-watt fluorescent units. †For 3-way battery portables. 6' long. Shpg. wt., 6 oz.

Stock No.	Mfr's Type	Ohms	NET EACH
49 T 520	2401	135	71c
49 T 520	2402	160	
49 T 519	2412	180	
49 T 518	2411	200	
49 T 517	2403	220	
49 T 516	2410	250	71c
49 T 515	2404	290	
49 T 524	2408A	300	
49 T 512	2405	330	
49 T 511	2407	350	
49 T 510	2406A	390	
49 T 525	2414A†	560	

220-110 V. Step-Down Cord. For operating 110 v. AC-DC radio sets from 220 v. AC-DC. Convenient way to step down 220 volts for sets using 0.15 amp tubes. 500 ohms. 0.2 amps capacity. 5 oz.
49 T 580. NET.....1.32

JFD Universal Line Cord. Replaces AC-DC cords from 220 to 300 ohms. Easy to install. Just select desired resistance leads; clip off unused leads. For standard three-terminal or pilot bulb tapped cords. Length, 6 ft. Shpg. wt., 5 oz.
49 T 530. NET.....1.68

"MAKE-UR-OWN" RESISTANCE CORDS

Resistance cords for supplying exact line cord resistance need. Shpg. wt. 1/2 lb. 25'.
49 W 560. 30 ohms resistance per ft. NET Per Foot.....12c
49 W 570. 60 ohms resistance per ft. NET Per Foot.....24c
25 feet for.....2.40

Special Purpose Tubes



Easy to Order—Specify Department and Tube Type. This tabular presentation enables you to locate the tube types you want, quickly and easily. When ordering, give the full Stock Number, which consists of the Dept. No. and the Mfr's. Type No. These numbers represent exact location of the tube in Allied stockrooms—speeds up your shipment. Give Stock No. thus: E3-1B85. *MP* after tube type indicates matched pair.

SPECIAL TUBES FOR CRITICAL USES

High-reliability tubes, (RCA's "Premium" and G.E.'s "Five-Star" types), are indicated by an asterisk*, or * with prototype tube in brackets, thus: 5654 *(6AK5). For industrial and military uses.

Dept.	Stock No.	Tube Type	Mfr.	NET EACH	Dept.	Stock No.	Tube Type	Mfr.	NET EACH	Dept.	Stock No.	Tube Type	Mfr.	NET EACH
E1	OA2		RCA	1.26	E2	RK 3B24 W		RAY	10.50	E4	6CA7		AMP	3.60
E1	OA2 WA*		RCA	3.70	E3	GL 3B24 W		GE	10.55	E3	EL 6C/L		ELEC	21.90
E1	OA3		RCA	1.27	E1	3B25		RCA	7.00	E2	6C4 W		RAY	8.90
E1	OA4G		RCA	1.68	E1	3B28		RCA	7.00	E3	6D4		SYL	2.85
E3	OA5		SYL	7.30	E1	3BP1A		RCA	23.25	E1	6F4		RCA	7.00
E1	OB2		RCA	1.32	E3	EL 3C		ELEC	11.80	E3	EL C6J		ELEC	28.90
E1	OB2 WA*		RCA	4.10	E3	EL 3C/L		ELEC	13.20	E1	C6J/5C21		RCA	28.90
E2	OB3		RAY	1.65	E1	3C23		RCA	11.98	E3	EL C6J/A		ELEC	29.30
E1	OC2		RCA	1.40	E4	3C23		AMP	11.98	E1	C6J-A/5685		RCA	29.30
E1	OC3		RCA	1.27	E3	GL 3C23		GE	11.98	E3	EL C6J/K		ELEC	28.90
E2	OC3		RAY	1.27	E3	3CX100A5		EIM	32.15	E3	EL C6J/KL		ELEC	31.70
E1	OD3		RCA	1.27	E1	3D22A		RCA	21.20	E3	EL C6J/L		ELEC	31.70
E2	OD3		RAY	1.27	E1	3E29		RCA	20.25	E1	6J4		RCA	4.33
E4	OE3/85A1		AMP	2.50	E3	C3J		CE	14.40	E1	6J4 WA*(6J4)		RCA	5.90
E4	OG3/85A2		AMP	2.50	E3	EL C3J		ELEC	14.10	E1	6S17Y		RCA	1.60
E2	0Z4A/CK1003		RAY	.95	E1	C3J/5632		RCA	15.50	E3	6S17 WGT		SYL	2.60
E2	1AD4		RAY	3.05	E3	EL C3J/A		ELEC	19.80	E3	6S17 WGT		SYL	3.25
E2	1AE4		RAY	4.50	E1	C3J-A/5684		RCA	19.80	E2	6S17 WGT		RAY	2.60
E2	1AG5		RAY	2.05	E3	EL C3J/L		ELEC	16.90	E2	6S17 WGT		TUNG	4.25
E3	EL C1B		ELEC	7.60	E1	3JP1		RCA	27.50	E3	6V6GT		SYL	1.45
E3	1B85		VIC	8.50	E1	3KP1		RCA	24.75	E2	6X4 W		RAY	2.00
E3	1B86		VIC	7.50	E1	3KP4		RCA	25.75	E2	6X5 WGT		RAY	2.00
E3	EL 1C		ELEC	9.80	E3	3NP4		(NA Phil.)	22.50	E3	7AK7		SYL	7.45
E1	1C21		RCA	3.85	E1	3RP1		RCA	17.65	E23	GL 7C29		GE	189.50
E3	CE 1C/918		CE	3.32	E23	3X2500A3		EIM	198.00	E3	7JP1/7VP1		SYL	29.00
E3	1D21/SN4		SYL	7.10	E23	3X2500F3		EIM	198.00	EX1	7JP4		RCA	21.69
E1	1EP1		RCA	21.35	E1	4-65A		RCA	20.00	E21	7TP4		RCA	68.50
E3	EL C1J		ELEC	13.40	E1	4-125A/4D21		RCA	30.25	E21	7VP1		RCA	35.00
E3	EL C1J/A		ELEC	15.90	E3	4-125A		EIM	30.25	E21	10SP4		RCA	82.25
E3	EL C1K		ELEC	12.90	E3	4-250A/5D22		RCA	41.25	E3	UXCXV11		UE	19.50
E1	C1K/6014		RCA	12.90	E3	4-250A		EIM	41.25	E1	12A6		RCA	2.09
E1	1P21		RCA	58.50	E3	4-400A		EIM	48.00	E1	12AT7 WA*		RCA	4.75
E1	1P22		RCA	16.90	E4	PL 4-400A		PEN	48.00	E3	EL C16J		ELEC	56.90
E1	1P28		RCA	31.35	E23	4-1000A		EIM	132.00	E1	C16J/5665		RCA	56.90
E1	1P29		RCA	4.20	E3	WL 4B24/3C		WES	11.20	E3	KY21A		EIM	25.00
E1	1P37		RCA	3.45	E3	4CX250B		EIM	45.00	E3	RX21A		EIM	24.00
E1	1P39		RCA	2.15	E3	4CX300A		EIM	48.00	E3	CE 23A		CE	2.50
E1	1P40		RCA	3.20	EU4	4CX1000A		EIM	156.00	E3	25T		EIM	15.00
E3	CE 1P/40		CE	3.00	E4	4D21A		PEN	31.25	E3	FG 27A		GE	40.25
E1	1P41		RCA	3.80	E2	RK 4D32		RAY	30.95	E3	28D7		SYL	2.85
E1	1P42		RCA	12.50	E1	4E27/8001		RCA	26.00	E3	CE 29R		CE	2.23
E4	E1T/6370		AMP	16.50	E1	4E27A/5-125B		RCA	40.00	E3	GZ 32		CE	3.19
E3	1Z2		CHA	6.40	E3	4E27A/5-125B		EIM	40.00	E3	EL 34		MULL	4.65
E3	2-01C		EIM	15.25	E3	EL C4J/F		ELEC	20.10	E3	EL 34 MP		MULL	10.05 pr.
E1	2AP1A		RCA	18.00	E23	4 W20000A		EIM	1850.00	E3	GZ 34		MULL	3.15
E3	2A515A		THER	7.50	E1	4X150A		RCA	38.95	E3	35T		EIM	20.00
E1	2BP1		RCA	18.20	E3	4X250B		EIM	42.50	E3	EL 37		MULL	4.31
E1	2BP11		RCA	19.85	E21	4X500A		RCA	121.00	E3	EL 37 MP		MULL	9.38 pr.
E1	2C39A		RCA	22.50	E23	4X500A		EIM	121.00	E3	TZ 40		TAY	10.20
E3	2C39B		EIM	32.15	E21	5ABP1		RCA	39.75	E4	EFP 60		AMP	8.75
E3	2C39 WA		SYL	30.00	E21	5ABP7		RCA	42.65	E2	RK 61		RAY	3.70
E1	2C40		RCA	27.50	E21	5BP1A		RCA	32.75	E3	KT 66		GEN	3.50
E1	2C43		RCA	24.55	E21	5CP1A		RCA	31.65	E4	75NB3		AMP	10.00
E3	2C51		TUNG	5.50	E21	5CP7A		RCA	38.35	E3	EABC80		AMP	2.74
E3	2C53		(Nat. Un.)	13.50	E21	5FP4A		RCA	45.70	E3	EBF 80		MULL	2.25
E3	CE 2D		CE	5.47	E1	5R4GY		RCA	1.90	E3	EZ 80		MULL	1.13
E1	2D21		RCA	1.62	E2	5R4GY		RAY	1.90	E3	ECC 81		MULL	1.68
E4	2D21		AMP	1.61	E3	5R4GYA		GE	1.90	E4	ECC 81		AMP	1.43
E2	2D21		RAY	1.64	EX1	5TP4		RCA	57.50	E3	ECH 81		MULL	2.63
E1	2D21 W*(2D21)		RCA	2.80	E21	5UP1		RCA	22.65	E3	E 81		MULL	1.91
E2	2E24		RCA	4.65	E21	5UP7		RCA	32.00	E3	EZ 81		MULL	1.23
E2	2E26		RAY	3.85	E1	6AC7 W*(6AC7)		RCA	3.95	E3	FG 81A		GE	27.77
E1	2E26		RCA	3.85	E1	6AG7Y		RCA	2.55	E3	ECC 82		MULL	1.38
E2	2E30		RAY	2.60	E2	6AJ5		RAY	4.35	E4	ECC 82		AMP	1.15
E2	2E31		RAY	2.25	E2	6AN5		RAY	3.75	E3	ECC 82		MULL	2.63
E2	2E32		RAY	2.25	E3	6AR6		TUNG	5.75	E1	83		RCA	1.57
E2	2E36		RAY	6.23	E1	6AS6		RCA	3.46	E3	ECC 83		MULL	1.38
E2	2G21		RAY	6.23	E2	6AS6		RAY	3.46	E4	ECC 83		AMP	1.15
E2	RK 2K25		RAY	28.30	E1	6AS7G		RCA	4.45	E3	EL 84		MULL	1.35
E1	2K26		RCA	48.20	E2	6AS7G		RAY	4.45	E3	EL 84 MP		MULL	3.90 pr.
E1	2X2A		RCA	2.55	E1	6AU6 WA*		RCA	3.60	E4	EL 84/6BQ5		AMP	1.20
E1	3A4		RCA	1.20	E3	6AU6 WA		GE	3.60	E3	ECC 85		MULL	1.71
E1	3A5		RCA	1.62	E3	EL 6B		ELEC	13.00	E3	EF 86		MULL	1.88
E2	3A5		RAY	1.25	E3	6BF7 W		SYL	4.45	E4	EF 86		AMP	1.45
E1	3AP1A		RCA	25.50	E3	EL 6B/L		ELEC	14.50					
E2	3B4		RAY	2.75	E3	EL C6C		ELEC	56.10					
E3	WL 3B22/1C		WES	9.80	E3	EL 6C		ELEC	19.80					

LISTINGS OF SPECIAL PURPOSE TUBES CONTINUED ON PAGES 128 AND 129

Special Purpose Tubes for

Immediate Delivery From Stock. The listing on these pages (127, 128 and 129), is a complete selection of tubes for broadcast, industrial and research use. Included are power tubes, rectifiers, cathode-ray, photo-electric and miniature tube types. Almost 700 types of special-purpose tubes are listed, representing the products of leading manufacturers in the electron tube industry (see table of manufacturers at left). Each tube will provide maximum efficiency and dependable service. Allied supplies all tubes at the lowest current prices from the largest distributor stocks in the country. *MP* after tube type indicates matched pair.

AMP	Amperex Elect. Corp.
CE	Continental Electric Co.
CHA	Chatham/Tungsol
EIM	Eitel McCullough
ELEC	Electrons, Inc.
GE	General Electric
GEN	Genalex
MULL	Mullard Products
NAT	Nat'l Electronics, Inc.
PER	Perco Lab, Inc.
RCA	Radio Corp. America
RAY	Raytheon Mfg. Co.
SYL	Sylvania Electric
TAY	Taylor Tubes, Inc.
THER	Thermosen, Inc.
TUNG	Tungsol
UE	United Electronics
VIC	Victoreen Instrument
WES	Westinghouse

Stock No.		Mfr.	NET EACH	Stock No.		Mfr.	NET EACH	Stock No.		Mfr.	NET EACH
Dept.	Tube Type			Dept.	Tube Type			Dept.	Tube Type		
E4	E 88CC/6922	AMP	4.75	E3	NL 760L	NAT	31.70	E3	R 1130B	SYL	20.40
E3	KT 88	GEN	4.95	E3	NL 760P	NAT	29.40	E3	R 1131C	SYL	19.20
E3	KT 88 MP	GEN	11.65 pr.	E1	801A	RCA	9.85	E3	1222A	SYL	2.45
E3	EF 89	MULL	2.25	E1	802	RCA	9.85	E3	1229	SYL	6.40
E3	EC 90	MULL	1.31	E1	805	RCA	20.00	E3	1280	SYL	1.50
E3	EK 90	MULL	1.68	E1	807	RCA	2.85	E1	1612	RCA	3.70
E3	EZ 90	MULL	1.20	E4	807	AMP	2.90	E1	1614	RCA	3.11
E4	90NB	AMP	20.00	E1	809	RCA	6.40	E1	1616	RCA	11.35
E3	EB 91	MULL	1.09	E1	810	RCA	25.55	E1	1619	RCA	3.80
E3	ECC 91	MULL	1.99	E1	811A	RCA	6.50	E1	1620	RCA	6.36
E3	EF 94	MULL	1.29	E1	812A	RCA	6.50	E1	1621	RCA	2.40
E3	100TH	EIM	20.50	E1	813	RCA	22.65	E1	1622	RCA	3.15
E4	AX 105/FG 105	AMP	49.50	E1	814	RCA	23.55	E1	1624	RCA	4.70
E1	172	RCA	82.35	E1	815	RCA	23.55	E1	1625	RCA	3.40
EZ3	PL 172	PEN	135.00	E1	816	RCA	2.65	E1	1626	RCA	2.20
E3	WL 172	WES	82.35	E1	828	RCA	27.50	E1	1629	RCA	1.90
E3	PL 177A	PEN	22.50	E4	828	AMP	27.50	E1	1635	RCA	2.37
E4	E 180F/6688	AMP	8.00	E1	829B	RCA	18.90	EZ1	1850A	RCA	640.00
E3	T 200	TAY	32.45	E1	832A	RCA	15.85	E1	1946	RCA	12.35
E3	CE 203	CE	13.44	EZ1	833A	RCA	55.00	E1	1949	RCA	12.65
E3	CE 206	CE	9.43	EZ4	833A	AMP	55.00	E1	2020	RCA	92.00
E3	CE 213A	CE	8.90	E1	836	RCA	9.20	E1	2022	RCA	3.45
E3	242C	UE	25.00	E1	837	RCA	7.85	E1	2050	RCA	1.85
EZ3	250TH	EIM	33.00	E1	845	RCA	20.85	E2	2050	RAY	1.85
E4	HF 300	AMP	39.50	EZ1	857B	RCA	235.00	E3	2050 W	CHA	7.15
E3	304TH	EIM	60.50	EZ4	857B	AMP	218.50	E2	2051	RAY	1.90
E3	304TL	EIM	60.50	E1	866A	RCA	2.65	EX4	ZB 3200	AMP	385.00
E3	SA 309	SYL	20.00	E3	GL 866A	GE	2.65	E3	R 4330	SYL	29.10
E3	GL 393A	GE	13.25	E4	866A/866AX	AMP	2.65	E3	GL 5316	GE	7.95
E3	394A	CHA	7.50	E2	RK 866A	RAY	2.65	E3	CK 5517	RAY	3.80
E3	395A	CHA	4.40	E3	866 JR	TAY	2.15	E2	GL 5544	GE	38.41
....	QK 404	See type RK7158		E1	868	RCA	3.75	E4	5545	AMP	29.40
....	404A	See type 3847		E3	GL 868/PJ23	GE	3.75	E1	5550	RCA	49.00
E3	GL 441	GE	4.50	EX4	869B	AMP	138.00	E3	GL 5550/GL415	GE	49.00
E3	WL 481B	WES	9.00	EX4	869BL	AMP	138.00	E1	5551A	RCA	65.00
E3	502A	GE	2.03	E1	872A	RCA	9.90	E4	5551A/P	AMP	65.00
E1	502A	RCA	2.03	E4	872A/872AX	AMP	9.35	E3	GL 5551A/P	GE	67.00
E2	CK 506AX	RAY	2.30	E1	884	RCA	1.85	EZ3	WL 5551A	WES	65.00
E2	CK 510AX	RAY	2.95	E2	884	RAY	1.85	EZ1	5552A	RCA	99.00
E2	CK 512AX	RAY	2.55	E1	885	RCA	2.00	EX4	5552A/P	AMP	99.00
E2	CK 526AX	RAY	2.76	EZ4	889A	AMP	221.00	EZ3	GL 5552A/P	GE	101.25
E2	CK 533AX	RAY	2.52	EZ1	892	RCA	270.00	EZ3	WL 5552A	WES	99.00
E2	CK 534AX	RAY	2.59	EZ4	892	AMP	270.00	EZ1	5553B	RCA	245.00
E2	CK 536AX	RAY	2.69	EZ1	892R	RCA	425.00	E2	4553B	AMP	216.00
E2	CK 542DX	RAY	5.82	EZ4	892R	AMP	425.00	EZ3	GL 5553B	GE	245.00
EX1	575A	RCA	22.15	E1	902A	RCA	19.70	EZ3	GL 5554/FG259B	GE	195.00
E1	579B	RCA	18.00	E1	917	RCA	5.00	E1	5556	RCA	21.00
E3	WL 579B	WES	18.00	E1	918	RCA	3.85	E3	GL 5556/PJ8	GE	21.00
E3	592/3-200A3	EIM	37.50	E1	919	RCA	5.00	E1	5557	RCA	9.50
E3	NL 604	NAT	11.80	E1	920	RCA	5.70	E4	5557/FG17	AMP	8.50
E3	NL 604L	NAT	13.20	E1	921	RCA	3.30	E3	GL 5557/FG17	GE	9.50
E3	NL 606	NAT	19.80	E1	922	RCA	2.85	E1	5558	RCA	17.50
E3	NL 606L	NAT	21.90	E1	923	RCA	2.85	E3	GL 5558/FG32	GE	17.50
E3	KU 610	WES	27.00	E3	GL 923	GE	2.85	E1	5559	RCA	23.00
E3	NL 615	NAT	9.75	E3	925	RCA	3.20	E4	5559	AMP	22.00
E3	NL 617	NAT	15.00	E1	926	RCA	3.30	E3	GL 5559/FG57	GE	23.00
E3	NL 623	NAT	13.35	E1	927	RCA	3.75	E1	5560	RCA	33.00
E3	WL 627	WES	27.00	E1	928	RCA	4.60	E3	GL 5560/FG95	GE	33.00
E1	629	RCA	15.00	E1	929	RCA	2.00	E1	5563A	RCA	47.00
E3	WL 632B	WES	33.00	E1	930	RCA	2.85	EZ3	GL 5564/GL507	GE	740.00
E3	NL 635	NAT	13.00	E1	931A	RCA	10.45	E1	5581	RCA	3.10
E3	NL 635L	NAT	14.50	E1	934	RCA	3.65	E1	5582	RCA	4.95
E3	NL 635P	NAT	14.40	E1	935	RCA	9.95	E1	5583	RCA	4.30
E3	NL 649/5834	NAT	9.20	E1	954	RCA	8.05	EX4	5604	AMP	570.00
E1	672A	RCA	38.00	E1	955	RCA	4.80	E3	GL 5632/C3J	GE	13.90
E3	WL 672A	WES	38.00	E1	956	RCA	8.70	E1	5636*	RCA	9.03
EX1	673	RCA	22.15	E1	958A	RCA	8.70	E3	5636*	GE	9.03
E3	WL 676	WES	58.00	E1	959	RCA	8.90	E3	5647	SYL	9.65
E1	677	RCA	58.00	E1	991	RCA	.87	E1	5651	RCA	1.78
E3	WL 678	WES	47.00	EZ3	1000T	EIM	137.50	E2	CK 5651	RAY	1.78
E3	NL 710/6011	NAT	14.00	E2	CK 1006	RAY	6.50	E2	CK 5651 WA	RAY	4.20
E3	NL 714	NAT	9.50	E2	CK 1020	RAY	10.80	E1	5654*(6AK5)	RCA	3.60
E3	Z 729	GEN	2.95	E2	CK 1021	RAY	10.80	E3	5654*(6AK5)	GE	3.55
E3	NL 740	NAT	19.40	E2	CK 1026	RAY	3.50	E2	CK 5654	RAY	3.60
E3	NL 740L	NAT	21.40	....	CK 1037	See type CK 6437		E1	5654/6AK5W*	RCA	5.45
E3	NL 740P	NAT	20.10	E2	CK 1038	RAY	8.30	E2	CK 5654/6AK5W	RAY	3.60
E3	NL 760	NAT	28.90	EZ3	NL 1051	NAT	65.00	E3	5662	GE	1.45

Industry and Broadcast Use

TUBE LISTINGS CONTINUED FROM PAGES 127 AND 128

Stock No.				Stock No.				Stock No.			
Dept.	Tube Type	Mfr.	NET EACH	Dept.	Tube Type	Mfr.	NET EACH	Dept.	Tube Type	Mfr.	NET EACH
E3	5663	GE	2.10	E3	5932	SYL	11.30	E3	6463	GE	2.15
EZ3	WL 5668	WES	307.00	E3	5933	SYL	12.35	E3	6476	GE	16.95
E1	5670 *(2C51)	RCA	4.80	E3	WL 5934	WES	18.00	E2	CK 6483	RAY	2.05
E2	5670 *(2C51)	GE	4.45	E1	5963	RCA	1.40	E2	CK 6519	RAY	3.05
E2	CK 5670	RAY	4.80	E2	CK 5963	RAY	1.40	E1	6524	RCA	16.00
E1	CK 5672	RAY	2.45	E1	5964	RCA	1.40	E3	6550	TUNG	4.95
E2	5675	RCA	13.20	E1	5965	RCA	2.40	E1	6570	RCA	8.20
E2	CK 5676	RAY	3.05	E2	5965	GE	2.40	E1	6655	RCA	56.25
E2	CK 5678	RAY	2.45	E3	CK 5965	RAY	2.40	E1	6660/6BA6	RCA	1.11
E3	5679	SYL	1.35	E2	CK 5975	RAY	4.20	E1	6661/6BH6	RCA	1.44
E1	5686*	RCA	3.71	E2	RK 5976	RAY	68.00	E3	6661/6BH6	GE	1.44
E3	5686*	GE	3.75	E3	5998	TUNG	11.85	E1	6663/6AL3	RCA	1.02
E1	5687	RCA	4.25	E1	6005* (6AQ5)	RCA	4.50	E3	6663/6AL3	GE	1.02
E3	5687	TUNG	4.25	E3	6005/6AQ5W	GE	4.60	E1	6669/6AQ5	RCA	1.16
E2	CK 5687	RAY	4.25	E4	6007	AMP	1.50	E3	6669	GE	1.16
E3	GL 5687	GE	4.50	E3	GL 6011	GE	14.00	E1	6677/6CL6	RCA	1.95
E1	5690*	RCA	12.95	E3	WL 6011/710	WES	14.00	E3	6677	GE	1.95
E1	5691*	RCA	8.45	E1	6012	RCA	7.10	E1	6679/12AT7	RCA	1.60
E1	5692*	RCA	8.15	E3	6014/C1K	NAT	12.90	E3	6679/12AT7	GE	1.60
E1	5693*	RCA	6.40	E1	6021*	RCA	5.75	E1	6680/12AU7	RCA	1.32
E1	5696	RCA	1.90	E3	6021*	GE	5.75	E3	6680/12AU7	GE	1.32
E2	CK 5702	RAY	4.20	E2	CK 6021	RAY	5.75	E1	6681/12AX7	RCA	1.34
E2	CK 5702 WA	RAY	8.25	E1	CK 6029	RAY	5.00	E3	6681/12AX7	GE	1.34
E2	CK 5703	RAY	2.35	E1	6072* (12AY7)	RCA	4.70	E1	6694A	RCA	5.60
E2	CK 5703 WA	RAY	7.50	E3	6072* (12AY7)	GE	4.70	EZ4	6786	AMP	200.00
E1	5718*	RCA	4.85	E1	6073* (OA2)	RCA	3.00	E3	6802	SYL	14.50
E1	5719*	RCA	4.20	E1	6074* (OB2)	RCA	3.45	E3	GL 6807	GE	29.30
E3	GL 5720/FG33	GE	34.75	E1	6080	RCA	5.25	E3	GL 6808	GE	29.40
E3	5722	SYL	6.40	E1	6080 WA	RCA	11.40	E1	6816	RCA	60.00
E1	5725* (6AS6)	RCA	4.15	E1	6082	RCA	5.30	E1	6883	RCA	5.00
E2	CK 5725	RAY	3.65	E1	6082	RCA	5.30	E1	6884	RCA	60.00
E1	5726* (6AL5)	RCA	1.70	E2	CK 6088	GE	6.30	E1	6893	RCA	4.25
E3	5726* (6AL5)	GE	1.70	E3	CK 6088	RAY	2.75	E1	6895	RCA	25.00
E2	CK 5726	RAY	1.70	E1	6101* (6J6)	RCA	7.00	E3	GL 6897	GE	32.15
E1	5726/6AL5 W* (6AL5)	RCA	2.10	E2	CK 6111	RAY	6.25	E4	6939	AMP	14.00
E1	5726/6AL5 W/ 6097*(6AL5)	RCA	3.25	E2	CK 6112	RAY	6.25	E1	6957	RCA	3.70
E3	5727*	RCA	2.80	E1	6130/3C4s	RCA	17.80	E4	6977	AMP	2.80
E1	5727*(2D21)	GE	2.80	E2	CK 6135	RAY	2.60	E1	7054	RCA	1.55
E1	5727/2D21 W *(2D21)	RCA	2.80	E1	6136* (6AU6)	RCA	3.60	E1	7055	RCA	1.05
E3	5727/2D21 W	GE	2.80	E3	6136* (6AU6)	GE	3.60	E1	7056	RCA	1.20
E3	5734	RCA	18.00	E1	6146	RCA	5.00	E1	7057	RCA	2.00
EZ3	WL 5736	WES	170.00	E4	CK 6146	AMP	4.90	E1	7058	RCA	1.35
E1	5749 *(6BA6)	RCA	2.70	E2	CK 6146	RAY	4.90	E1	7059	RCA	1.75
E3	5749 *(6BA6)	GE	2.70	E4	6156	AMP	30.25	E1	7060	RCA	2.10
E3	5750 *(6BE6)	RCA	3.80	E1	6159	AMP	41.25	E1	7061	RCA	1.35
E3	5750 *(6BE6)	RCA	3.80	EZ1	6166	RCA	5.00	EZ3	GL 7085/356	GE	600.00
E1	5751 *(12AX7)	RCA	3.70	E2	CK 6174	RAY	3.80	E1	7094	RCA	31.95
E3	5751 *(12AX7)	GE	3.70	EZ1	6181	RCA	925.00	E4	7136	AMP	25.00
E2	CK 5751	RAY	3.70	E1	6186/6AG5 WA *(6AG5)	RCA	4.00	E2	RK 7158	RAY	67.90
E2	CK 5755	RAY	10.40	E1	6189/12AU7 WA*(12AU7)	RCA	4.70	E1	7163	RCA	2.85
EZ1	5762/7C24	RCA	230.00	E1	6197	RCA	2.80	EZ1	7200	RCA	255.00
E1	5763	RCA	2.37	E1	6198	RCA	2.80	E1	7212	RCA	15.45
E2	CK 5763	RAY	2.37	EZ1	6198A	RCA	230.00	E1	8005	RCA	16.20
E2	CK 5783	RAY	4.20	E1	6199	RCA	52.50	E4	8008A	AMP	9.35
E2	CK 5783 WA	RAY	8.30	E1	6201* (12AT7)	RCA	4.75	E1	8013A	RCA	14.85
E2	CK 5787	RAY	5.00	E3	6201* (12AT7)	GE	4.75	E1	8020	RCA	24.00
E2	CK 5787 WA	RAY	10.80	E3	6202* (6X4)	GE	3.60	E3	GL 8020	GE	24.00
EZ3	GL 5788	GE	476.25	E3	6203*	GE	4.50	E1	9001	RCA	4.90
E3	WL 5796	WES	16.40	E1	6211	RCA	2.40	E1	9002	RCA	3.25
E1	5814A*(12AU7)	RCA	3.85	E1	6212	RCA	72.00	E1	9003	RCA	4.90
E3	5814A*(12AU7A)	GE	3.85	E2	CK 6247	RAY	11.20	E1	9004	RCA	4.15
E1	5819	RCA	56.90	E3	GL 6251	GE	2300.00	E1	9005	RCA	4.60
EZ1	5820	RCA	1200.00	E4	6252	AMP	25.00	E1	9006	RCA	2.35
EZ4	5822AP	AMP	116.00	E3	6265* (6BH6)	GE	4.50				
E1	5823	RCA	1.57	E4	6268	AMP	32.50				
E3	5824	GE	3.60	E4	6279	AMP	45.00				
E1	5825	RCA	20.85	E1	6293	RCA	6.20				
E2	CK 5829	RAY	4.20	EX1	6326A	RCA	515.00				
E1	5840*	RCA	7.00	E1	6328	RCA	12.15				
E3	5841	VIC	6.50	EZ4	6333	AMP	260.00				
E4	5844	GE	2.40	E3	6336	CHA	17.65				
E3	5847	AMP	20.00	E3	6336A	CHA	24.40				
EZ4	5868	AMP	55.00	E1	6342	RCA	72.00				
E1	5876	RCA	13.55	E3	GL 6346	GE	65.00				
E2	CK 5879	RAY	1.75	E3	GL 6347	GE	99.00				
E1	5881	RCA	3.50	EZ3	GL 6348	GE	245.00				
E3	5881	TUNG	3.50	E1	6350	RCA	2.35				
E2	CK 5886	RAY	5.00	E4	6360	AMP	4.00				
E2	CK 5889	RAY	12.45	E3	6386*	GE	8.15				
E1	5893	RCA	19.40	E2	CK 6397	RAY	8.30				
E4	5894	AMP	25.00	E1	6417	RCA	2.37				
E3	GL 5894	GE	32.40	E2	CK 6418	RAY	3.05				
E3	5896*	GE	4.60	E2	CK 6419	RAY	2.20				
E3	5899*	GE	7.40	E2	CK 6437	RAY	8.30				
E1	5913	RCA	1.55	EX1	6448	RCA	5300.00				

RCA TUBE LITERATURE

37 A 109. Type 1D-1020A. Interchangeability Directory. Guide to selection of RCA tubes for replacement of non-receiving tubes. No charge.

37 A 159. Type PCH101B. User Price Schedule. 6 pages. Latest edition. No charge.

37 A 137. Type CRP D-105. Photosensitive Devices and Cathode-Ray Tubes. Technical information on 130 RCA tubes including single, twin and multiplier phototubes, TV camera tubes, monoscopes, etc. 24 pages. No charge.

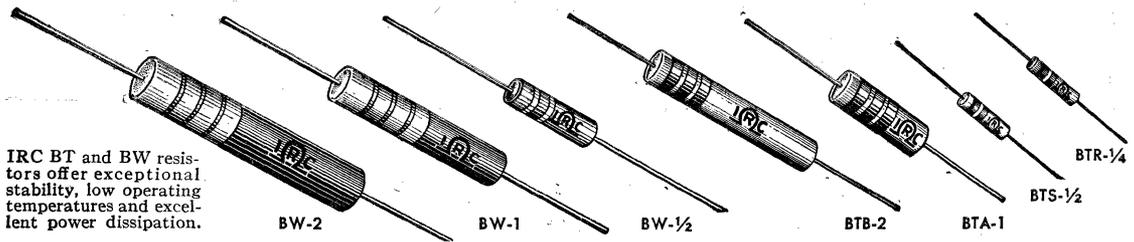
37 A 138. Type RIT-104. Receiving-Type Tubes for Industry and Communications. Valuable data on 130 RCA tubes including special red, premium, pencil, computer, glow-discharge, etc. 20 pages. No charge.

37 A 576. Type PG-101-C. Power and Gas Tube Bulletin. Data on more than 150 RCA transmitting, industrial, RF heating, and other special tubes. 24 pages. No charge.

37 A 157. HAM-103B. Latest ratings, technical data and base diagrams for 48 RCA Amateur tubes. 4 pages. No charge.

IRC Resistors

IRC BT and BW resistors offer exceptional stability, low operating temperatures and excellent power dissipation.



BT AND BW 10% INSULATED TYPES

Type BT Fixed Composition. Exceed rigid MIL-R-11 specifications. Withstand 50-100% overloads for short periods. EIA (RETMA) coded. Sizes: BTR, $2\frac{3}{4} \times \frac{3}{4}$ "; BTS, $1\frac{3}{4} \times \frac{1}{4}$ "; BTA, $2\frac{3}{4} \times \frac{1}{4}$ "; BTB, $1\frac{1}{4} \times \frac{1}{4}$ ". Figure in Type No. indicates wattage rating.

Type BW Fixed Wire-Wound (Low Power). Withstand 50% to 100% overloads with little or no resistance change. Have standard EIA (RETMA) color coding. Sizes: BW- $\frac{1}{2}$, $\frac{3}{4} \times \frac{3}{4}$ "; BW-1, $1\frac{1}{4} \times \frac{1}{4}$ "; BW-2, $1\frac{3}{4} \times \frac{1}{4}$ ". Figure in Type No. indicates wattage rating.

10% EIA (RETMA) VALUES—SPECIFY RESISTANCE WANTED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
0.27	1.2	5.6	27	120	560	2700	12,000	56,000	0.27 meg	1.2 meg	5.6 meg	
0.33	1.5	6.8	33	150	680	3300	15,000	68,000	0.33 meg	1.5 meg	6.8 meg	
0.39	1.8	8.2	39	180	820	3900	18,000	82,000	0.39 meg	1.8 meg	8.2 meg	
0.47	2.2	10	47	220	1000	4700	22,000	0.1 meg	0.47 meg	2.2 meg	10 meg	
0.56	2.7	12	56	270	1200	5600	27,000	0.12 meg	0.56 meg	2.7 meg	12 meg	
0.68	3.3	15	68	330	1500	6800	33,000	0.15 meg	0.68 meg	3.3 meg	15 meg	
0.82	3.9	18	82	390	1800	8200	39,000	0.18 meg	0.82 meg	3.9 meg	18 meg	
1.0	4.7	22	100	470	2200	10,000	47,000	0.22 meg	1.0 meg	4.7 meg	22 meg	

TYPE BT 10% FIXED COMPOSITION

5-lot price applies to purchase of one resistance value only.

Stock No.	Mfr's Type	MIL Equiv.	Values	NET EACH	5 FOR
1 MM 010	BTR- $\frac{1}{4}$	RC09	10 Ω to 22 megs	12c	46c
1 MM 000	BTS- $\frac{1}{2}$	RC20	10 Ω to 22 megs	12c	35c
1 MM 020	BTA-1	RC30	10 Ω to 22 megs	18c	53c
1 MM 050	BTB-2	RC41	100 Ω to 22 megs	24c	94c

TYPE BW 10% FIXED WIRE-WOUND (Low Power)

5-lot price applies to purchase of one resistance value only.

Stock No.	Mfr's Type	MIL Equiv.	Values (See Chart Above)	NET EACH	5 FOR
1 MM 061	BW- $\frac{1}{2}$	RU-3	0.27 to 8.2 Ω	24c	.94
1 MM 060	BW- $\frac{1}{2}$	RU-3	10 to 820 Ω	20c	.78
1 MM 080	BW-1	RU-4	0.47 to 4700 Ω	30c	1.18
1 MM 100	BW-2	RU-6	1 to 8200 Ω	40c	1.57

INDUSTRIAL QUANTITIES—SUBSTANTIAL SAVINGS ON BTS AND BTA 10% TYPES

Industrial quantities—to provide tremendous savings on IRC 10% resistors. Supplied in boxes of 100—the minimum quantity of any one value that you may order.

Savings may be assorted for 500- and 1000-lot prices—but only in boxes of 100 per value. For example, if you order 1000 resistors, select up to 10 different values.

Type BTS $\frac{1}{2}$ -Watt Fixed Composition

Stock No.	MIL Equiv.	Values	Lots of 100, Per 100	Lots of 500, Per 100	Lots of 1000, Per 100
1 MM 001	RC20	10 Ω to 22 megs	4.30	3.20	2.85

Type BTA 1-Watt Fixed Composition

Stock No.	MIL Equiv.	Values	Lots of 100, Per 100	Lots of 500, Per 100	Lots of 1000, Per 100
1 MM 021	RC30	10 Ω to 22 megs	7.10	5.40	4.80

BT AND BW 5% INSULATED TYPES

Type BT Fixed Composition. Filament carbon 5% resistors. Highly dependable low-cost units for use in circuits requiring close tolerance values. EIA (RETMA) color coding. Completely insulated.

Type BW Fixed Wire-Wound (Low Power). Stable, low-cost units, completely insulated. Similar in appearance to carbon resistors, but have double-width first color band. Withstand shock, vibration, temperature changes.

5% EIA (RETMA) VALUES—SPECIFY RESISTANCE WANTED

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
0.24	1.1	5.1	24	110	510	2400	11,000	51,000	0.24 meg	1.1 meg	5.1 meg	
0.27	1.2	5.6	27	120	560	2700	12,000	56,000	0.27 meg	1.2 meg	5.6 meg	
0.30	1.3	6.2	30	130	620	3000	13,000	62,000	0.30 meg	1.3 meg	6.2 meg	
0.33	1.5	6.8	33	150	680	3300	15,000	68,000	0.33 meg	1.5 meg	6.8 meg	
0.36	1.6	7.5	36	160	750	3600	16,000	75,000	0.36 meg	1.6 meg	7.5 meg	
0.39	1.8	8.2	39	180	820	3900	18,000	82,000	0.39 meg	1.8 meg	8.2 meg	
0.43	2.0	9.1	43	200	910	4300	20,000	91,000	0.43 meg	2.0 meg	9.1 meg	
0.47	2.2	10	47	220	1000	4700	22,000	0.1 meg	0.47 meg	2.2 meg	10 meg	
0.51	2.4	11	51	240	1100	5100	24,000	0.11 meg	0.51 meg	2.4 meg	11 meg	
0.56	2.7	12	56	270	1200	5600	27,000	0.12 meg	0.56 meg	2.7 meg	12 meg	
0.62	3.0	13	62	300	1300	6200	30,000	0.13 meg	0.62 meg	3.0 meg	13 meg	
0.68	3.3	15	68	330	1500	6800	33,000	0.15 meg	0.68 meg	3.3 meg	15 meg	
0.75	3.6	16	75	360	1600	7500	36,000	0.16 meg	0.75 meg	3.6 meg	16 meg	
0.82	3.9	18	82	390	1800	8200	39,000	0.18 meg	0.82 meg	3.9 meg	18 meg	
0.91	4.3	20	91	430	2000	9100	43,000	0.20 meg	0.91 meg	4.3 meg	20 meg	
1.0	4.7	22	100	470	2200	10,000	47,000	0.22 meg	1.0 meg	4.7 meg	22 meg	

TYPE BT 5% FIXED COMPOSITION

5-lot price applies to purchase of one resistance value only.

Stock No.	Mfr's Type	MIL Equiv.	Values	NET EACH	5 FOR
1 MM 015	BTR- $\frac{1}{4}$	RC09	10 Ω to 22 megs	24c	.94
1 MM 005	BTS- $\frac{1}{2}$	RC20	10 Ω to 22 megs	24c	.94
1 MM 025	BTA-1	RC30	10 Ω to 22 megs	36c	1.41
1 MM 035	BTB-2	RC41	100 Ω to 22 megs	48c	1.88

TYPE BW 5% FIXED WIRE-WOUND (Low Power)

5-lot price applies to purchase of one resistance value only.

Stock No.	Mfr's Type	MIL Equiv.	Values	NET EACH	5 FOR
1 MM 066	BW- $\frac{1}{2}$	RU-3	0.24 Ω to 9.1 Ω	48c	1.88
1 MM 065	BW- $\frac{1}{2}$	RU-3	10 Ω to 820 Ω	30c	1.18
1 MM 085	BW-1	RU-4	0.47 Ω to 5100 Ω	45c	1.76
1 MM 105	BW-2	RU-6	1.0 Ω to 8200 Ω	60c	2.35

Precision 1% Resistors

MOLDED AND UNMOLDED RESISTORS

IRC MIL-10509B UNMOLDED RESISTORS

Types DCC, DCF and DCH.

Unmolded, film-type carbon resistors for circuits requiring high voltage ratings and low noise levels. Wattage rating indicated by last letter of Type: C (1/2 watt); F (1 watt); or H (2 watts). Meet MIL 10509B specs. Ratings, 40° C. **Specify values when ordering.** Shpg. wts.: 1/2 watt, 3 oz.; 1 watt, 4 oz.; 2 watts, 6 oz. **Write for prices on larger quantities.**



EIA (RETMA) VALUES

Ohms	Ohms	Ohms	Ohms	Ohms	Megs	Megs	Megs
51	360	2200	6800	43,000	.27	1.2	5.1
56	390	2400	8200	47,000	.30	1.6	5.6
62	400*	2500*	9100	50,000*	.33	1.8	6.2
68	430	2700	12,000	51,000	.36	2.2	6.8
82	470	3000	16,000	56,000	.39	2.4	8.2
91	500*	3300	18,000	62,000	.40*	2.5	9.1
120	510	3600	22,000	68,000	.43	2.7	12.0
160	560	3900	24,000	82,000	.47	3.0	16.0
180	620	4000*	25,000*	91,000	.50†	3.3	18.0
220	680	4300	27,000	.12 meg	.51	3.6	22.0
240	820	4700	30,000	.16 meg	.56	3.9	24.0
250*	910	5000*	33,000	.18 meg	.62	4.0*	27.0
270	1200	5100	36,000	.22 meg	.68	4.3	30.0
300	1600	5600	39,000	.24 meg	.82	4.7	
330	1800	6200	40,000*	.25 meg	.91	5.0	

Stock No.	Type	MIL Type	Values	NET EACH	
				1-24	25-99
MM 490	DCC	RN20X	51 ohms to 1.8 megs except * or †	43¢	34¢
MM 450	DCF	RN25X	100 ohms to 5 megs	65¢	52¢
MM 451	DCF	RN25X	5.1 megs to 10 megs	72¢	57¢
MM 470	DCH	RN30X	220 ohms to 10 megs except *	76¢	62¢
MM 471	DCH	RN30X	12 megs to 30 megs	84¢	66¢

MIL-OHM VALUES

Ohms	Ohms	Ohms	Ohms	Ohms	Megs	Megs	Megs
75	150	1100	7500	15,000	.1	.20	1.3
100	200	1300	10,000	20,000	.11	.75	1.5
110	750	1500	11,000	75,000	.13	1.0	2.0
130	1000	2000	13,000		.15	1.1	

Stock No.	Type	MIL Type	Values	NET EACH	
				1-24	25-99
MM 491	DCC	RN20X	75 ohms to 2.0 megs	39¢	31¢
MM 452	DCF	RN25X	100 ohms to 2.0 megs	59¢	47¢
MM 472	DCH	RN30X	200 ohms to 2.0 megs	71¢	56¢

AEROVOX CARBOFILM RESISTORS

For circuits requiring accuracy and stability. Carbon deposited on ceramic rod. Silver-plated contacts. Size and voltage: CP-1/2 watt, 1/2x1 1/2", 1500 volts; CPL-1/2 watt, 1/2x1 1/2", 2000 volts; CP-1 watt, 1/2x1 1/2", 2500 volts. **Specify values when ordering.** Av. shpg. wt., 2 oz. **Write for prices on larger quantities.**

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Megs	Megs
100	470	2200	9100	47,000	240,000	1.0	5.1
110	510	2400	10,000	51,000	270,000	1.1	5.6
120	560	2700	11,000	56,000	300,000	1.2	6.2
130	620	3000	12,000	62,000	330,000	1.5	6.8
150	680	3300	15,000	68,000	360,000	1.8	7.5
180	750	3600	18,000	75,000	390,000	2.0	8.2
200	820	3900	20,000	82,000	430,000	2.2	9.1
220	910	4300	22,000	91,000	470,000	2.4	10.0
240	1000	4700	24,000	100,000	510,000	2.7	
270	1100	5100	27,000	110,000	560,000	3.0	
300	1200	5600	30,000	120,000	620,000	3.3	
330	1300	6200	33,000	150,000	680,000	3.6	
360	1500	6800	36,000	180,000	750,000	3.9	
390	1800	7500	39,000	200,000	820,000	4.3	
430	2000	8200	43,000	220,000	910,000	4.7	

Stock No.	Mfr's Type	Watts	Values	NET EACH	
				1-24	25-99
2 MM 150	CP-1/2	1/2	100 ohms to 4.7 megs	39¢	32¢
2 MM 155	CP-1/2	1	5.1 megs to 7.5 megs	45¢	40¢
2 MM 160	CPL-1	1	100 ohms to 4.7 megs	57¢	48¢
2 MM 170	CP-1	1	5.1 megs to 10.0 megs	66¢	53¢

CONTINENTAL CARBON NR & NA RESISTORS

NR-25 1-watt resistors have metallic resistance film formed on surface of low-loss ceramic tubes. Hermetically sealed with smooth, uniform vitreous enamel coating. Hollow body for withstanding temperatures to 400° F. Rating, 500 v. No. 18, 1 1/2" tinned copper leads. Size, 1/4" dia., 1 1/2" long. NA-15, 1/2-watt precision resistors are available in values (listed in table below) up to 1.0 meg. Have No. 20, 1 1/2" tinned copper leads. Rating, 350 v. Size, 1/2" dia., 1 1/2" long. **Specify value.** Shpg. wt., 2 oz.



Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Megs
1	150	2000	5500	15,000	85,000	400,000	1.0
5	200	2500	5950	20,000	90,000	450,000	1.5
10	300	2950	7450	25,000	100,000	490,000	2.0
15	400	3500	8500	30,000	150,000	500,000	2.5
20	500	4000	8950	40,000	200,000	600,000	3.0
25	1000	4450	9900	50,000	240,000	750,000	3.5
50	1450	4950	10,000	60,000	250,000	800,000	4.0
100	1500	5000	13,500	75,000	300,000	900,000	5.0

Stock No.	Mfr's Type	Watts	Values	NET EACH	
				1-24	25-U _p
2 MM 300	NR-25	1	1 ohm to 1.0 meg	59¢	41¢
2 MM 301	NR-25	1	1.5 megs to 5.0 megs	76¢	55¢
2 MM 310	NA-15	1/2	1 ohm to 1.0 meg	47¢	33¢

IRC MIL-10509B MOLDED RESISTORS

Types MDB, MDC, and MDF.

Molded, film-type carbon resistors for circuits requiring high voltage ratings and low noise levels. Sealed in a molded plastic case. Wattage rating is indicated by the last letter of type designation: B (1/2 watt); C (1/2 watt); F (1 watt). All units meet MIL 10509B specifications. Ratings are for 70° C. **Specify values when ordering.** Shpg. wts.: 1/2 watt, 2 oz.; 1 watt, 3 oz.; 1 watt, 4 oz. **Write for prices on larger quantities.**



MIL-OHM VALUES

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
100	383	2870	7500	24,900	61,900	215K	499K
110	422	3010	9090	26,100	68,100	227K	511K
121	475	3480	10,000	26,700	75,000	237K	562K
133	681	3830	11,000	30,100	82,500	249K	681K
147	750	3920	12,100	31,600	90,900	287K	750K
162	825	4020	13,300	33,200	100K	301K	909K
178	1000	4220	14,700	34,800	110K	316K	1.0 meg
196	1100	4640	15,000	39,200	121K	332K	1.1 megs
200	1210	4750	16,200	40,200	130K	348K	1.33 megs
215	1500	4990	17,800	42,200	147K	383K	1.47 megs
237	2000	5110	19,600	46,400	150K	402K	1.5 megs
261	2210	5620	20,000	47,500	162K	422K	1.62 megs
287	2370	6190	21,500	49,900	196K	442K	1.96 megs
348	2670	6810	23,700	56,200	200K	464K	2.0 megs

Stock No.	Type	MIL Type	Values	NET EACH	
				1-24	25-99
MM 465	MDB	RN65B	100 ohms to 499K ohms	65¢	51¢
MM 466	MDB	RN65B	511K ohms to 1 meg	69¢	54¢
MM 455	MDC	RN70B	100 ohms to 2 megs	59¢	47¢
MM 460	MDF	RN75B	100 ohms to 2 megs	88¢	71¢

TEXAS INSTRUMENTS PRECISION RESISTORS

TYPE CD 1/2 MR—COATED

Coated, film-type carbon resistors designed to provide dependable service in critical circuits. Ideal for use where high voltage ratings and low noise levels are required. All units listed below have a wattage rating of 1/2 watt. Meet MIL-R10509B specifications. Calibrated at 25° C. Have excellent moisture resistance and overload capacity. Nominal lead length, 1 1/2"; number 20—.032 diameter tinned copper. **Specify values when ordering.** Shpg. wt., 3 oz. **Write for prices on larger quantities.**



Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Megs	Megs
51	220	680	2700	10K	39K	.15	.51
56	240	750	3000	11K	43K	.16	.56
62	250	820	3300	12K	47K	.18	.62
68	270	910	3600	13K	50K	.20	.68
75	300	1000	4220	14K	51K	.22	.75
82	330	1100	4300	16K	56K	.24	.82
91	360	1200	4700	18K	62K	.25	.91
100	390	1300	5000	20K	68K	.27	1.0
110	400	1500	5100	22K	75K	.30	1.1
120	430	1600	5600	24K	82K	.33	1.2
130	470	1800	6200	25K	91K	.36	1.3
150	500	2000	6800	27K	100K	.40	1.5
160	510	2200	7500	30K	.11 meg	.43	1.6
180	560	2400	8200	33K	.12 meg	.47	1.8
200	620	2500	9100	36K	.13 meg	.50	2.0

Stock No.	Type	Values	NET EACH	
			1-24	25-99
MM 430	CD 1/2 MR	51 ohms to 2.0 megs	39¢	31¢

TYPE CDM—MOLDED

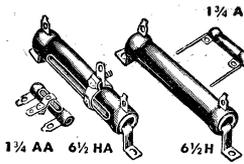
Precision-made, molded, film-type carbon resistors. Excellent for circuits where noise must be minimized and which operate at high voltage ratings. Specially designed to provide maximum dependability in critical applications. Have high dielectric strength and resist humidity, dust and abusive handling. Available in 1/2 watt and 1 watt values. Type CDM 1/2 designates 1/2 watt; Type CDM 1/4, 1/4 watt. Meet requirements of MIL-R 10109B specifications. Type CDM 1/4 and CDM 1/2 are calibrated at 25° C. Nominal lead length, 1 1/2"; number 20—.032 diameter tinned copper. Type CDM 1/2 is MIL Type RN65B; 0.585" long x 0.200" diameter. Type CDM 1/4 is MIL Type RN70B; 0.750" x 0.250" diameter. **Specify values when ordering.** Shpg. wts.: 1/2 watt, 2 oz.; 1 watt, 3 oz. **Write to Allied's Industrial Division for prices on larger quantities.**



Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
100	383	2870	7500	24,900	61,900	215K	499K
110	422	3010	9090	26,100	68,100	221K	511K
121	475	3480	10,000	26,700	75,000	237K	562K
133	681	3830	11,000	30,100	82,500	249K	681K
147	750	3920	12,100	31,600	90,900	287K	750K
162	825	4020	13,300	33,200	100K	301K	909K
178	1000	4220	14,700	34,800	110K	316K	1.0 meg
196	1100	4640	15,000	39,200	121K	332K	1.1 megs
200	1210	4750	16,200	40,200	130K	348K	1.33 megs
215	1500	4990	17,800	42,200	147K	383K	1.47 megs
237	2000	5110	19,600	46,400	150K	402K	1.5 megs
261	2210	5620	20,000	47,500	162K	422K	1.62 megs
287	2370	6190	21,500	49,900	196K	442K	1.96 megs
316	2670	6810	23,700	56,200	200K	464K	2.0 megs
348							

Stock No.	Type	Values	NET EACH	
			1-24	25-99
MM 435	CDM 1/4	100 ohms to 499K ohms	65¢	51¢
MM 436	CDM 1/4	511K ohms to 1.0 meg	69¢	54¢
MM 440	CDM 1/2	100 ohms to 2 megs	59¢	47¢

IRC Resistors



WIRE-WOUND POWER RESISTORS

Large, non-porous ceramic cores, and thick cement coatings. All have lugs; Types 1 1/4 A and 2 D, also have 1 3/4" leads. Units of 25 watts and higher have mounting brackets. All $\pm 10\%$ tolerance except fixed types of 50 ohms and up, which are $\pm 5\%$. **NOTES ON ADJUSTABLE TYPES:** Units of 25 watts and higher have silver contacts. Where range of values is given in individual listings, consult table for specific values available; e.g., 1 to 1000 means all values listed in table between and including 1 and 1000. Specify resistance value when ordering. Av. shpg. wt., 10-50 watts, 4 oz.; 100-200 watts, 1 lb.

STOCK RANGES—SPECIFY RESISTANCE VALUE

VALUES AVAILABLE IN OHMS						
1†	25†	350*§	1250*	3500§	8500*§	30,000*
2†*	50†	400	400†	400†	900†	40,000*
3†*	75†	500†	1500†	4500*§	10,000†	50,000*
5†	100†	600*§	1750*§	5000†	12,000*§	100,000*
7.5*§	150†	750†	2000†	6000*	12,500*§	
10†	200†	800*	2250*§	7000*	15,000	
15§	250†	1000†	2500†	7500*§	20,000	
20†*§	300†	1200*	3000†	8000*	25,000	

FIXED POWER RESISTORS

1 1/4 A (AB)—10 WATT
To 25,000 ohms, except 2 and 3 ohms. 1 3/4"x5/16".

Stock No.	Ohms	EACH
I MM 120	1 to 1000	.47
I MM 121	1200 to 5000	.53
I MM 122	6000 to 10,000	.59
I MM 123	12,000 to 20,000	.65
I Ni 124	25,000	.71

4 1/2 E (EP)—50 WATT
In values indicated below only. 4 1/2"x3/4".

Stock No.	Ohms	EACH
I MM 160	1 and 2	1.47
I MM 161	5, 10, 25, 50, 75, 100, 200, 250, 500, 1000	1.06
I MM 162	1500, 2000, 2500, 3000, 4000, 5000	1.12
I MM 163	6000 and 10,000	1.23
I MM 168	100,000	2.06

2 D (DG)—20 WATT
All values to 50,000 ohms, except 5, 2x3/16".

Stock No.	Ohms	EACH
I MM 140	1 to 1000	.62
I MM 141	1200 to 5000	.65
I MM 142	6000 to 10,000	.71
I MM 143	15,000 and 20,000	.76
I MM 144	25,000 to 40,000	.88
I MM 145	50,000	1.03

6 1/2 H (HA)—100 WATT
In values indicated below only. 6 1/2"x1 1/8".

Stock No.	Ohms	EACH
I MM 300	5, 10, 25, 50, 75, 100, 150, 250, 500, 750, 1000	1.56
I MM 301	1250, 1500, 2000, 2500, 3000, 5000	1.65
I MM 302	7500	1.76

ADJUSTABLE POWER RESISTORS

1 1/4 AA (ABA)—10 WATT
Available in values to 10,000 marked † in above table. Size, 1 1/4"x3/16".

Stock No.	Ohms	EACH
I MM 200	1 to 1000	.94
I MM 201	1500 to 5000	1.00
I MM 202	7500 and 10,000	1.06

6 1/2 HA (HAA)—100 WATT
Available only in values indicated below. Size 6 1/2"x1 1/8".

Stock No.	Ohms	EACH
I MM 260	100, 200, 400, 500, 750, 1000	2.32
I MM 261	1500, 3000, 5000	2.38
I MM 262	10,000	2.50
I MM 263	15,000 and 20,000	2.65
I MM 264	25,000	2.82
I MM 265	50,000	2.94
I MM 267	100,000	3.20

2 1/2 DA (DHA)—25 WATT
In all values above, except *. Size, 2 1/2"x3/16".

Stock No.	Ohms	EACH
I MM 220	1 to 1000	1.21
I MM 221	1500 to 5000	1.23
I MM 222	7500 and 10,000	1.29
I MM 223	15,000 and 20,000	1.35
I MM 224	25,000	1.47

10 1/2 HA (HOA)—200 WATT
Available only in resistances indicated below. Size, 10 1/2"x1 1/8".

Stock No.	Ohms	EACH
I MM 340	10, 25, 50, 100, 250, 500, 1000	2.82
I MM 341	1500, 2000, 2500, 5000, 10000	2.88
I MM 342	10,000	3.06
I MM 343	50,000	3.35
I MM 347	100,000	3.67

Extra Sliders. For adjustable resistors. 3 oz. Size, 6 1/2" D. For 2 1/2 D, 1 1/4 A, 10 1/2 HA, 10 1/2 HA. EA.....18c
2 M 602. For 4 1/2 EA. }
2 M 600. For 1 1/4 AA. } EACH.....18c
2 M 603. 6 1/2 HA, 10 1/2 HA. EA.....26c

4 1/2 EA (EPA)—50 WATT
In values indicated below only. 4 1/2"x3/4".

Stock No.	Ohms	EACH
I MM 240	10, 25, 50, 75, 100, 150, 200, 250, 500, 750, 1000	1.53
I MM 241	1500, 2000, 2500, 3000, 4000, 5000	1.59
I M 242	10,000	1.71
I MM 243	15,000 and 20,000	1.82
I MM 244	25,000, 30,000, 40,000	2.00
I M 245	50,000	2.12
I M 247	100,000	2.53

WIRE-WOUND PRECISION RESISTORS



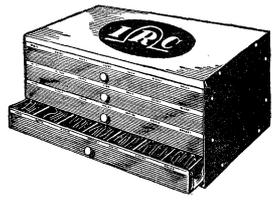
Type WW2J. 1 Watt. Enameled windings on ceramic forms. Maximum volts, 2000. Lug terminals. Size, 7/8"x2 1/8". Shpg. wt., 3 oz.
Type WW4J. 1/2 Watt. Special impregnant for complete humidity protection, as on others of series. Max. volts, 700. Size, 1 1/8"x1". Wt. 3 oz.

TYPE WW4J			TYPE WW10J		
Stock No.	Ohms	EACH	Stock No.	Ohms	EACH
2 M 541	0.1		2 M 515	10000	1.59
2 M 549	0.2		2 M 516	12500	
2 M 542	0.5		2 M 517	15000	
2 M 500	1		2 M 518	20000	
2 M 546	5	1.29	2 M 544	22500	
2 M 501	10		2 M 519	25000	2.06
2 M 502	25		2 M 520	30000	
2 M 503	50		2 M 521	40000	
2 M 504	100		2 M 522	50000	
2 M 505	200		2 M 523	60000	
2 M 506	300		2 M 524	75000	
2 M 507	500	1.38	2 M 525	100000	2.32
2 M 508	1000		2 M 526	125000	
2 M 509	1500		2 M 527	150000	
2 M 510	2000		2 M 528	175000	2.56
2 M 511	2500		2 M 529	200000	
2 M 547	3000		2 M 530	225000	
2 M 548	3500	1.50	2 M 531	250000	2.82
2 M 512	4000		2 M 532	300000	
2 M 513	5000		2 M 533	400000	3.32
2 M 514	7500	1.59	2 M 534	500000	3.79

Excellent selection of highly dependable precision resistors. Widely used in instruments, calibrated controls, etc. All except Type WW10J are wound with adjacent sections in opposite directions to minimize coupling effects. Tolerance is $\pm 1\%$. All have lug terminals, except Type WW10J, which has wire terminals.

Type WW5J. 1/2 Watt. Similar to type WW4J, but rated at 1000 volts maximum. Tolerance is $\pm 1\%$. Size, 5/8"x1 1/4". Shpg. wt., 3 oz.
Type WW10J. 0.15 Watt. Extremely small wire-wound resistors. 2" wire leads. Maximum volts, 200. Size, 7/8"x1 1/2". Shpg. wt., 2 oz.

TYPE WW5J			TYPE WW2J		
Stock No.	Ohms	EACH	Stock No.	Ohms	EACH
2 M 550	10		2 M 564	4000	1.29
2 M 551	25	1.32	2 M 565	5000	
2 M 552	50		2 M 566	7500	
2 M 553	100		2 M 567	10000	1.35
2 M 554	200		2 M 568	12500	
2 M 555	250		2 M 569	15000	
2 M 556	300	1.26	2 M 570	20000	
2 M 557	500		2 M 571	25000	1.59
2 M 558	1000		2 M 572	30000	
2 M 559	1500		2 M 573	40000	
2 M 560	2000		2 M 574	50000	
2 M 561	2500		2 M 575	60000	
2 M 562	3000	1.29	2 M 576	75000	1.76
2 M 563	3500		2 M 577	0.1 Meg	



RESISTOR ASSORTMENTS

Keep your resistor stocks complete, orderly and accessible with IRC metal Resist-O-Cabinets. These space saving cabinets have 4 drawers and 28 compartments and are available with a choice of 4 resistor assortments ($\pm 10\%$). Each resistance value is in a separate compartment. Prices are for resistors only—no charge for cabinets. 5 1/2"x5 1/2"x6 1/2"x10 1/2".

METAL RESIST-O-CABINETS

Assortment No. 2A. 120 2-watt resistors as follows: 7 each: 8200, 10K, 22K, 47K; 5 each: 1K, 6800, 15K, 0.1 meg; 4 each: 100, 330, 470, 1500, 2200, 3300, 4700, 27K, 1.0 meg; 3 each: 47, 82, 150, 220, 270, 3900, 0.22 meg, 0.47 meg; 2 each: 4.7, 10, 22, 68; 1 each: 15, 27, 33, 39. Complete with metal Resist-O-Cabinet. Shpg. wt., 4 1/2 lbs. **28.22**

Assortment No. 4A. 150 IRC 1/2-watt resistors: 8 each: 1K, 47K, 0.1 meg, 0.27 meg, 1.0 meg; 7 each: 470, 10K, 0.22 meg, 2.2 meg; 5 each: 3300, 22K, 27K, 33K, 0.33 meg; 4.7 meg; 4 each: 100, 470, 1500, 2200, 56K, 68K, 3.3 meg; 3 each: 4.7, 220, 270, 1.0 meg. Supplied complete with Metal Resist-O-Cabinet. Shpg. wt., 4 1/2 lbs. **27.64**

Assortment No. 5A. 125 IRC 1-watt resistors: 7 each: 1K, 10K, 27K, 47K, 0.1 meg, 0.27 meg, 0.47 meg, 1.0 meg; 5 each: 2200, 4700, 22K; 4 each: 33K, 39K, 68K; 3 each: 47, 100, 150, 220, 270, 470, 1500, 2700, 3300, 15K, 0.15 meg, 0.22 meg, 2.2 meg, 4.7 meg. With metal Resist-O-Cabinet. Shpg. wt., 4 1/2 lbs. **22.05**

Combination Assortment No. 6A. Complete resistor stock for AM, FM and TV in one handy cabinet. 139 IRC insulated and Type DCF resistors. 1/2-Watt. 4 each: 1000, 47K, 100K, 270K; 10K, 27K, 33K, 39K, 47K, 150K, 4.7 meg; 1 Watt. 4 each: 1000, 10K, 27K, 100K, 1.0 meg; 3 each: 47K, 470K, 2.2 meg; 2 each: 3300, 15K, 22K, 68K, 150K, 270K; 1 each: 47, 100, 150, 220, 270, 470, 1500, 2200, 2700, 4700, 33K, 39K, 220K, 4.7 meg. 2 Watt. 1 each: 47, 100, 470, 4700, 10K, 22K, 47K. Type DCF. 1 each: 1000, 10K, 100K, 1.0 meg, 5.0 meg. With metal Resist-O-Cabinet. Shpg. wt., 5 lbs. **22.76**

AXIAL-LEAD POWER RESISTORS

Type PW-10. IRC 10-watt wire-wound resistors with glass fiber core. Element-lead assembly is fully sealed and insulated in rectangular ceramic case. Particularly recommended for circuits where a stable resistor is required with an actual wattage dissipation of 10 watts or less. Has axial leads 1 1/2" long. Tolerance $\pm 10\%$. Size less leads, 1 1/2"x3/8"x1 1/2". Shpg. wt., 2 oz. Specify values when ordering—see listing below.

VALUES AVAILABLE (OHMS)						
1	10	75	300	1500	5000	20,000
2	15	100	500	2000	5000	25,000
3	20	150	750	2500	8200	
4	25	200	1000	3000	10,000	
5	50	250	1250	4000	15,000	

I MM 190, 1-99, NET EACH.....35¢
100-499, EA.....25¢

FUSE-RESISTORS

Type FR 7.5. A highly reliable plug-in type resistor with characteristics of a slow-blow fuse. For series-string filament circuits in television sets and other equipment. Prevents burnout losses—opens filament circuits if current is excessive. May be used to replace similar units in Raytheon, RCA, Motorola, Sylvania, Zenith, etc. Has fully insulated ceramic body. Resistance, 7.5 ohms. Shpg. wt., 3 oz.

2 M 771, 1 to 9, EACH.....44c
10 or More, EACH.....35c
Type FR 5. As above, but 5 ohms. 3 oz.
2 M 773, 1 to 9, NET EACH.....44c
10 or More, EACH.....35c
Type FR 5.6. As above, but 5.6-ohm. 3 oz.
2 M 772, 1 to 9, EACH.....44c
10 or More, EACH.....35c

Ohmite Resistors

FAMOUS "BROWN DEVIL" WIRE-WOUND RESISTORS

For voltage dropping, bias units, bleeders, etc. Thick vitreous enamel coating—for excellent heat conduction and insulation; also protects against effects of humidity. Welded high-strength alloy terminals. Accuracy, ±5%. Size: 5-watt units, 1½" x 10-watt units, 1¾" x 20-watt units, 2¾" x 1½" tinned leads. Av. shpg. wt., 3 oz.



Available in all values to 10,000 except those marked § in table at left.

No.	Ohms	EACH
1 MM 730	1 to 1000	.44
1 MM 731	1100 to 5000	.47
1 MM 732	6000 to 10,000	.50

10-WATT SIZE

Available in all values to 50,000 except those marked † in table at left.

No.	Ohms	EACH
1 MM 700	1 to 1000	.47
1 MM 701	1100 to 5000	.53
1 MM 702	6000 to 10,000	.59
1 MM 703	11000 to 20000	.65
1 MM 704	22500 to 25000	.71
1 MM 705	30000 to 50000	.79

20-WATT SIZE

Available in all values except those marked * in table at left.

No.	Ohms	EACH
1 MM 720	5 to 1000	.62
1 MM 721	1200 to 5000	.65
1 MM 722	6000 to 10000	.71
1 MM 723	12500 to 20000	.76
1 MM 724	25000 to 40000	.88
1 MM 725	45000 to 60000	1.03
1 MM 726	65000 to 80000	1.18
1 MM 727	85000 to 100000	1.35

SPECIFY VALUES DESIRED

Ohms	Ohms	Ohms	Ohms	Ohms
1	100	1000	7500	35,000
1.5†	125*	1100*	8000	40,000
2*	150	1200	8500*	45,000
3*	200	1250	9000	50,000
4*	225*	1500	10,000	55,000
5	250	1750	11,000*	60,000
7.5*	300	2000	12,000*	65,000
10*	350	2250	12,500	70,000
12*	400	2500	13,500*	75,000
15*	450*	2750*	15,000	80,000
20*	500	3000	16,000*	85,000
25	600*	3500	17,500*	90,000
30*	650†	4000	18,000*	95,000
35*	700	4500	20,000	100,000
40*	750	5000	22,500*	
50	800	6000	25,000*	
75	900*	7000	30,000	

"DIVIDOHM" WIRE-WOUND ADJUSTABLE RESISTORS



Used for voltage-dividing networks in power supplies, adjustable dropping resistors, etc. Wire-wound on ceramic core with vitreous enameled coat. Accuracy ±10%. With slider and mounting brackets. Av. shpg. wt., ½ lb.

10 WATTS—1½"x¾"

No.	Type	Ohms	Ma.	EACH
74 M 950	1001	1	3160	.94
74 M 951	1002	2	2240	
74 M 952	1003	3	1830	
74 M 953	1004	5	1410	
74 M 861	1006	10	1000	
75 M 862	1009	25	630	.94
75 M 863	1010	50	450	
75 M 864	1011	75	370	
75 M 865	1012	100	320	
75 M 866	1013	150	260	
75 M 867	1015	250	200	
75 M 868	1019	500	140	
75 M 869	1021	750	120	
75 M 870	1023	1000	100	
75 M 871	1025	1500	81		1.00
75 M 872	1028	2500	63	
75 M 873	1033	5000	45	
75 M 874	1036	7500	36	
75 M 875	1040	10,000	32	1.06

25 WATTS—2"x¾"

No.	Type	Ohms	Ma.	EACH
74 M 954	0360	1	5000	1.21
74 M 955	0361	3	2880	
74 M 956	0362	5	2240	
74 M 957	0363	10	1580	
74 M 958	0364	15	1290	1.21
74 M 959	0365	25	1000	
74 M 960	0366	50	710	
74 M 961	0367	75	580	
75 M 780	0368	100	500	1.21
75 M 781	0371	250	320	
75 M 782	0372	500	220	
75 M 783	0373	750	180	
75 M 784	0375	1000	160	1.24
75 M 785	0376	1500	130	
75 M 786	0377	2000	120	
75 M 787	0378	2500	100	
75 M 788	0379	3000	91	
75 M 789	0382	5000	70	
75 M 790	0384	7500	57	1.29
75 M 791	0385	10000	50	
75 M 792	0386	12000	42	
75 M 793	0387	15000	36	
75 M 794	0388	20000	31	1.35
75 M 795	0389	25000	28	
75 M 880	EXTRA SLIDER			1.8c

50 WATTS—4"x¾"

No.	Type	Ohms	Ma.	EACH
74 M 962	0506A	1	7070	1.94
74 M 963	0506B	2	5000	1.53
74 M 964	0506C	3	4070	1.53
74 M 965	0506D	4	3530	1.53

50 WATTS—4"x¾" (Cont.)

No.	Type	Ohms	Ma.	EACH
74 M 966	0561	10	2230	1.53
74 M 967	0562	25	1410	
74 M 968	0563	50	1000	
74 M 969	0564	75	820	1.53
74 M 970	0565	100	710	
74 M 971	0566	150	580	
74 M 972	0567	200	500	
75 M 800	0568	250	450	1.53
75 M 801	0569	500	320	
75 M 802	0570	750	260	
75 M 803	0572	1000	220	
75 M 804	0573	1500	180	1.59
75 M 805	0574	2000	160	
75 M 806	0575	2500	140	
75 M 807	0578	5000	100	
75 M 808	0581	10000	71	1.71
75 M 809	0583	15000	57	1.82
75 M 810	0584	20000	50	1.82
75 M 811	0585	25000	45	2.00
75 M 812	0586	30000	36	
75 M 813	0587	40000	29	
75 M 814	0588	50000	26	2.12
75 M 815	0591	100000	18	2.53

100 WATTS—6½"x¾"

No.	Type	Ohms	Ma.	EACH
74 M 973	0956A	1	10000	2.94
74 M 974	0956B	2	7070	
74 M 975	0956C	3	5770	
74 M 976	0956D	4	5000	2.32
74 M 977	0956	5	4470	
74 M 978	0957	10	3160	
74 M 979	0958	25	2000	
74 M 980	0959	50	1410	2.32
74 M 981	0960	100	1000	
74 M 982	0960B	250	630	
74 M 983	0961	500	450	
75 M 830	0962	1000	320	
75 M 831	0964	5000	140	2.38
75 M 832	0965	10000	100	
75 M 833	0966	15000	81	
75 M 834	0967	20000	71	2.65
75 M 835	0968	25000	63	2.82
75 M 837	0970	40000	50	2.82
75 M 838	0971	50000	45	2.94
75 M 840	0973	100000	28	3.20
75 M 881	EXTRA SLIDER			2.6c

200 WATTS—10½"x1½"

No.	Type	Ohms	Ma.	EACH
74 M 984	1356A	1	14100	3.67
74 M 985	1356B	2	10000	
74 M 986	1356C	3	8160	
74 M 987	1356D	4	7070	
74 M 988	1356	5	6320	
74 M 989	1357	10	4470	2.82
74 M 990	1358	25	2830	
74 M 991	1359	50	2000	
74 M 992	1360	100	1410	2.82
74 M 993	1360B	250	890	
74 M 994	1361	500	630	
75 M 850	1362	1000	450	
75 M 851	1364	5000	200	2.88
75 M 852	1365	10000	140	3.06
75 M 858	1371	50000	63	3.35
75 M 860	1373	100000	45	3.67
75 M 882	EXTRA SLIDER			2.6c



"LITTLE DEVIL" RESISTORS

Molded, insulated composition resistors. Meet MIL-R-11A specifications, including salt water immersion and high humidity tests. Dissipate heat rapidly and can be used at their full wattage ratings at 158° F. Tinned copper leads. Breakdown ratings: 1/10 W., 200 v.; 1/2 W., 350 v.; 1 W., 500 v.; 2 W., 750 v. Shpg. wt., 2 oz.

SPECIFY VALUES DESIRED

10% TOLERANCE RESISTORS

Ohms	Ohms	Ohms	Megs	Megs
10	220	4,700	0.1	2.2
12	270	5,600	0.12	2.7
15	330	6,800	0.15	3.3
18	390	8,200	0.18	3.9
22	470	10,000	0.22	4.7
27	560	12,000	0.27	5.6
33	680	15,000	0.33	6.8
39	820	18,000	0.39	8.2
47	1,000	22,000	0.47	10.0
56	1,200	27,000	0.56	12.0
68	1,500	33,000	0.68	15.0
82	1,800	39,000	0.82	18.0
100	2,200	47,000	1.0	22.0
120	2,700	56,000	1.2	27.0
150	3,300	68,000	1.5	33.0
180	3,900	82,000	1.8	39.0

Stock No.	Watts	NET EACH		
		1-99	100-249†	250-499†
2 MM 050	1/10*	24c	.141	.118
2 MM 040	1/2	12c	.07	.047
2 MM 060	1	18c	.106	.071
2 MM 080	2	24c	.141	.118

†Applies to resistors of one value only.
*Available only in values from 100 ohms to 1.0 megohm.

5% TOLERANCE RESISTORS

Ohms	Ohms	Ohms	Megs	Megs
10	220	4,700	0.1	2.2
11	240	5,100	0.11	2.4
12	270	5,600	0.12	2.7
13	300	6,200	0.13	3.0
15	330	6,800	0.15	3.3
16	360	7,500	0.16	3.6
18	390	8,200	0.18	3.9
20	430	9,100	0.20	4.3
22	470	10,000	0.22	4.7
24	510	11,000	0.24	5.1
27	560	12,000	0.27	5.6
30	620	13,000	0.30	6.2
33	680	15,000	0.33	6.8
36	750	16,000	0.36	7.5
39	820	18,000	0.39	8.2
43	910	20,000	0.43	9.1
47	1,000	22,000	0.47	10.0
51	1,100	24,000	0.51	11.0
56	1,200	27,000		

Quality Resistors

OHMITE AXIAL-LEAD WIRE-WOUND RESISTORS

 Axial-lead, ceramic-core resistors. Covered with vitreous enamel to withstand high temperature. Resistance wire and terminals welded to end caps to assure excellent stability and minimum noise. Tolerance: $\pm 5\%$ for values over 50 ohms; $\pm 10\%$ for values less than 50 ohms. Wattage ratings based on temperature rise to 300°C. $1\frac{1}{2}''$ leads. Av. shpg. wt., 4 oz.

SPECIFY RESISTANCE WHEN ORDERING

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1.0	12	75	350	900	2250	7000	18,000
1.5	15	100	400	1000	2500	7500	20,000
2.0	20	125	450	1100	3000	8000	22,500
3.0	25	150	500	1200	3500	9000	25,000
4.0	30	200	600	1250	4000	10,000	.....
5.0	35	225	700	1500	4500	12,500	.....
7.5	40	250	750	1750	5000	15,000	.....
10.0	50	300	800	2000	6000	17,500	.....

3 WATTS— $\frac{3}{16} \times \frac{1}{4}''$

No.	Ohms	EACH	No.	Ohms	EACH
2 MM 090	1-1000	50¢	2 MM 110	6000-10,000	56¢
2 MM 095	1100-5000	53¢			

5 WATTS— $1\frac{1}{16} \times \frac{1}{2}''$

No.	Ohms	EACH	No.	Ohms	EACH
2 MM 115	1-1000	53¢	2 MM 145	12,500-20,000	71¢
2 MM 130	1100-5000	56¢	2 MM 146	22,500-25,000	73¢
2 MM 135	6000-10,000	59¢			

SPRAGUE "KOOLOHM" WIRE-WOUND RESISTORS

 Feature high-voltage insulated resistance wire windings; will withstand 10,000 volts from surface of jacket to resistance element. KT types are inductively wound; NIT types have non-inductive winding. Ceramic jackets and special end-seals provide complete protection against high humidity and heat—ceramic coating insulation withstands temperatures to 1000°C. Accuracy within 5%. Av. shpg. wt., 2 oz.

SPECIFY RESISTANCE WHEN ORDERING

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
5	50	400	1250	5000	12,000	30,000
10	75	500	1500	6000	14,000	35,000
15	100	600	1750	7500	15,000	40,000
20	150	700	2000	8000	17,500	50,000
25	200	800	2500	9000	20,000	60,000
30	250	900	3000	10,000	25,000	70,000
40	300	1000				

TYPE SKT—3 WATT— $1\frac{1}{2} \times \frac{1}{2}''$

No.	Ohms	EACH	No.	Ohms	EACH
1 MM 640	5 to 1000	38¢	1 MM 645	20,000	56¢
1 MM 641	1250 to 5000	41¢	1 MM 646	25,000	65¢
1 MM 642	6000 to 10,000	47¢	1 MM 647	30,000	71¢
1 MM 643	14,000	53¢	1 MM 648	35,000	78¢
1 MM 644	15,000	56¢			

TYPE 10KT—10 WATT— $1\frac{1}{2} \times \frac{1}{2}''$

1 MM	Ohms	EACH	1 MM	Ohms	EACH
660	5 to 1000	44¢	666	30,000	.76
661	1250 to 5000	47¢	668	35,000	.88
662	6000 to 10,000	53¢	667	40,000	.97
663	12,000 to 17,500	59¢	668	50,000	1.06
664	20,000	65¢	669	60,000	1.18
665	25,000	71¢	669	70,000	1.29

TYPE 5NIT—3 WATT NON-INDUCTIVE— $1\frac{1}{2} \times \frac{1}{2}''$

No.	Ohms	EACH	No.	Ohms	EACH
1 MM 670	5 to 1000	59¢	1 MM 672	2500 to 4000	73¢
1 MM 671	1250 to 2000	68¢	1 MM 673	5000	76¢

TYPE 10NIT—10 WATT NON-INDUCTIVE— $1\frac{1}{2} \times \frac{1}{2}''$

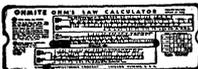
1 MM	Ohms	EACH	1 MM	Ohms	EACH
680	5 to 1000	59¢	683	5000 to 6000	.76
681	1250 to 2000	68¢	684	7500 to 9000	.88
682	2500 to 4000	73¢	685	10,000	1.12



OHMITE TYPE FR FUSE RESISTOR

A highly dependable $1\frac{1}{4}$ -ohm fuse resistor. May be used to replace many fuse resistors used in television circuits. $1\frac{1}{2}''$ tinned wire leads make replacement application easy and quick. Supplied with convenient, plug-in bakelite mounting strip—or can be wired directly into circuit of TV set. Widely used in series-string filament circuits. Length, $1\frac{1}{8}''$. 3 oz.

2 M 063. NET.....38¢



HANDY OHM'S LAW CALCULATOR

Easy-to-use calculator. Solves problems in Ohm's Law and DC power. Shows power, voltage and current when resistance is known. By setting to two known values

resistance can be determined. Also has parallel resistance calculator. Size, 9x3". Shpg. wt., 3 oz.
2 M 780. NET.....25¢
2 M 781. Deluxe Plastic Model. NET.....1.50



ALLIED'S COLOR-CODE GUIDE

An "instant-reference" color-code guide for resistors. Code colors may be set to show corresponding resistance values, or resistance values set to show corresponding code colors. Size, $2\frac{1}{2} \times 3\frac{1}{4}''$. Includes tolerance code and listing of EIA-JAN $\pm 10\%$ standard stock values. (Supplied at no charge with order for 20 or more resistors.) Shpg. wt., 2 oz.
2 M 770. EACH.....15¢

DAVEN QUALITY RESISTORS ENCAPSULATED WIRE-WOUND RESISTORS



Type 1174



Type 1250

Types 1250 and 1174 meet MIL-R-9444 specs. Type 1250 has axial leads of No. 20 wire, 2" long; Type 1174 has gold-plated solder lugs. Size and wattage ratings: Type 1250, $1\frac{1}{2} \times \frac{1}{2}''$ long, $\frac{1}{2}$ watt; Type 1174, $1\frac{1}{2} \times \frac{1}{2}''$ long, $\frac{1}{2}$ watt. Wattage at 25°-125°C, 400 v. max. Wt., 2 oz.

Ohms	Type 1250 Stock No.	Type 1174 Stock No.	NET EACH		
			1-9	10-24	25-U p
1	31 M 400	31 M 475	1.31	1.00	.85
10	31 M 401	31 M 476	1.31	1.00	.85
20	31 M 402	31 M 477	1.31	1.00	.85
40	31 M 403	31 M 478	1.31	1.00	.85
50	31 M 404	31 M 479	1.31	1.00	.85
100	31 M 405	31 M 480	1.31	1.00	.85
150	31 M 406	31 M 481	1.31	1.00	.85
200	31 M 407	31 M 482	1.31	1.00	.85
300	31 M 408	31 M 483	1.31	1.00	.85
400	31 M 409	31 M 484	1.31	1.00	.85
500	31 M 410	31 M 485	1.31	1.00	.85
600	31 M 411	31 M 486	1.31	1.00	.85
1000	31 M 413	31 M 488	1.31	1.00	.85
1500	31 M 412	31 M 487	1.31	1.00	.85
2000	31 M 414	31 M 489	1.31	1.00	.85
3000	31 M 415	31 M 490	1.31	1.00	.85
4000	31 M 416	31 M 491	1.31	1.00	.85
5000	31 M 417	31 M 492	1.31	1.00	.85
6000	31 M 418	31 M 493	1.35	1.03	.87
8000	31 M 419	31 M 494	1.35	1.03	.87
10,000	31 M 420	31 M 495	1.35	1.03	.87
15,000	31 M 421	31 M 496	1.45	1.12	.94
18,000	31 M 422	31 M 497	1.45	1.12	.94
20,000	31 M 423	31 M 498	1.45	1.12	.94
22,000	31 M 424	31 M 499	1.45	1.12	.94
25,000	31 M 425	31 M 500	1.45	1.12	.94
30,000	31 M 426	31 M 501	1.54	1.19	1.00
40,000	31 M 427	31 M 502	1.54	1.19	1.00
43,000	31 M 428	31 M 503	1.54	1.19	1.00
47,000	31 M 429	31 M 504	1.54	1.19	1.00
50,000	31 M 430	31 M 505	1.54	1.19	1.00
56,000	31 M 431	31 M 506	1.61	1.24	1.05
60,000	31 M 432	31 M 507	1.61	1.24	1.05
70,000	31 M 433	31 M 508	1.61	1.24	1.05
75,000	31 M 434	31 M 509	1.61	1.24	1.05
80,000	31 M 435	31 M 510	1.68	1.31	1.10
82,000	31 M 436	31 M 511	1.68	1.31	1.10
100,000	31 M 437	31 M 512	1.68	1.31	1.10
120,000	31 M 438	31 M 513	1.74	1.37	1.15
150,000	31 M 439	31 M 514	1.90	1.51	1.27
160,000	31 M 440	31 M 515	1.99	1.58	1.32
180,000	31 M 441	31 M 516	2.06	1.63	1.37
200,000	31 M 442	31 M 517	2.18	1.72	1.47
220,000	31 M 443	31 M 518	2.18	1.72	1.47
250,000	31 M 444	31 M 519	2.18	1.72	1.47
300,000	31 M 445	31 M 520	2.47	1.96	1.63
400,000	31 M 446	31 M 521	2.83	2.24	1.86
500,000	31 M 447	31 M 522	3.10	2.45	2.04
750,000	.....	31 M 523	4.18	3.29	2.73
1 Megohm	.....	31 M 524	4.79	3.76	3.12

Type 1195. Same design as Type 1250, but $1\frac{1}{2} \times \frac{3}{4}''$ long and rated at $\frac{1}{2}$ watt. Meets MIL-R-93B proposed requirements. Shpg. wt., 2 oz.
31 M 448. 750K, 25-U, EA. 2.73 10-24, EA. 3.29 1-9, EA. 4.18
31 M 449. 1 meg. 25-U, EA. 3.12 10-24, EA. 3.76 1-9, EA. 4.79

TYPE 850 $\frac{1}{2}$ -WATT METAL-FILM PRECISION RESISTORS



Hermetically sealed, precision $\frac{1}{2}$ -watt resistors. Designed for accuracy, small size and low cost. Exceed MIL-R-

10509B specs. for temp. cycling, low-temp. exposure, short-time overload, effect to soldering, moisture resistance, voltage coefficient, load life, temp. coefficient (PPM/°C). Tolerance is $\pm 1\%$. Voltage: 350 v., max. Size (less leads): $\frac{3}{16}''$ diameter, $\frac{3}{8}''$ long. Av. shpg. wt., 2 oz.

STOCK RANGES—SPECIFY RESISTANCE WHEN ORDERING

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
*1	20	200	1500	8000	30,000	100,000	400,000
*2	40	300	2000	10,000	40,000	150,000	*500,000
*3	50	400	3000	15,000	50,000	200,000	*600,000
*5	80	500	4000	20,000	60,000	250,000	*700,000
*8	100	800	5000	25,000	80,000	300,000	*800,000
10	150	1000	6000				

Stock No.	Values Available	NET EACH		
		1-9	10-24	25-U p
31 M 360	1, 2, 3, 5, and 8-ohm only	1.15	1.00	.85
31 M 365	All values in above table except*	1.04	.90	.75
31 M 370	1500K, 600K, 700K, 800K-ohm only	1.15	1.00	.85

ALLIED BARGAIN RESISTOR ASSORTMENT



Servicemen, hams, experimenters—here's a useful assortment of 100 high quality carbon resistors at a money-saving low price! An excellent selection of most often-used values, all in color coded $\frac{1}{2}$ -watt and 1 watt sizes. All resistors are brand new and have tinned copper leads. Non-insulated types only. Shpg. wt., 12 oz.

58 M 086. NET.....95¢

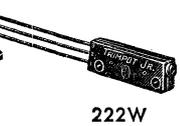
Special-Purpose Resistors, Controls

DAVEN STEP-TYPE ATTENUATORS

Attenuators for broadcast and industrial use. For mixer volume controls, meter multipliers, equalizer and sound level controls, RF line and video controls. Feature uniform contact pressure and low contact resistance; give positive contact under all types of conditions. All have 20 steps at 2 db per step, except *30 steps at 1 1/2 db per step. SP-2627 exactly replaces Gates A-9703 with case, RCA 147875-2; SP-4633—Gates 9703, RCA 147875-1; CP-354-T—RCA 147875-7, RCA 147273-4. LA-350-AH is used in Magnecord tape M2R3217; Collins 378-0369-000; LA-350-AH is used in Magnecord tape recorders. †Indicates cueing switch. Prefixes indicate: T—bridged "T" networks; LA—unbalanced ladder networks; TA—multiplier networks for VU meters (ratios: \$MW +4 to +40 and off; † +4 to +42 and off) CP—carbon resistor potentiometers. Last steps taper to cutoff (infinity), except †no taper (last step is cutoff). Av. shpg. wt., 1 1/4 lbs. Allied can supply the complete Daven line at OEM prices—write for literature.



BOURNS TRIMPOT SUBMINIATURE POTENTIOMETERS

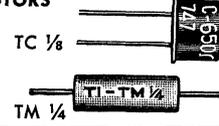


Precision-made, multi-turn miniature potentiometers used to control all types of electronic circuits. Widely used in airborne and instrumentation equipment. Ideal for use in printed circuits and a wide variety of portable and mobile applications. Highly resistant to vibration, shock and violent acceleration; all units are specially sealed to be splash, sand and dust-proof. Self-locking adjustment holds any setting under extreme conditions. Interchangeable mounting for easy substitution in experimental circuits. All except Models 120-15, 215L are wire-wound; all except Model 222W have 25-turn screwdriver adjustment. Model 200S has solder lug connectors; all others have wire leads. Units mount easily in stacked assemblies—twenty Model 200L "Trim pots" fit into a 1 1/2-inch cube! All metal parts are fully corrosion-resistant; contacts and collector strips are platinum alloy. Wiper assembly of all units idles at ends of elements—prevents possible damage from forced adjustments. Units are 100% inspected; Total Resistance Tolerance: ±10%, except Models 120-15, 215L, ±20%. Features of various models are briefly explained below. Av. shpg. wt., 2 oz. Write for prices on larger quantities and complete specifications.

Stock No.	Mfr's Type	Terminal Impedance	NET EACH		
			1 to 4	5 or 6	or More
31 M 456	†SP-4027	150/300	13.58	14.25	
31 M 457	SP-433	150/300	13.58	12.45	
31 M 458	LA-350-EF	250/500	13.58	12.45	
31 M 459	LA-350-G	600/600	13.58	12.45	
31 M 460	LA-350-AH	30/60	13.58	12.45	
31 M 461	†CP-350-Y	500,000	13.58	12.45	
31 M 462	CP-354-T	100,000	13.58	12.45	
31 M 463	CP-354-X	250,000	13.58	12.45	
31 M 464	†CP-350-T	100,000	13.58	12.45	
31 M 465	†LAQ-350-EF	250/500	15.58	14.25	
31 M 466	†TA-1000-1	7100/3900	38.92	35.25	
31 M 467	†TA-1000-4	7100/3900	38.92	35.25	
31 M 468	*T-330-G	600/600	32.25	29.25	
31 M 469	*T-330-K	150/150	32.25	29.25	
31 M 470	T-321-G	600/600	27.25	25.65	
31 M 471	T-255-G	600/600	27.25	25.65	

NEW TEXAS INSTRUMENTS SENSISTORS

Temperature sensing resistors; also for temperature compensating use. Have large 0.1%°C. positive temperature coefficient of resistance. Tol. ±10%. TM 1/4 has molded case with axial leads; TC 1/8 has hermetically-sealed, round welded case. Av. shpg. wt., 2 oz. Specify values when ordering.

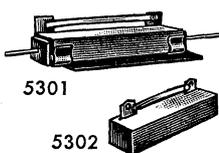


| Ohms |
|------|------|------|------|------|------|------|
| 100 | 150 | 220 | 330 | 470 | 560 | 820 |
| 120 | 180 | 270 | 390 | 500 | 680 | 1000 |

Stock No.	Mfr's Type	Watts	Loading Characteristics	NET EACH
31 MM 561	TM 1/4	1/4	Full load to 100° C.	4.00 3.50
31 MM 562	TC 1/8	1/8	Full load to 125° C.	5.00 4.50

GC-WUERTH SURGISTORS

Surge resistors for increased receiving tube, CR tube and component life. Combines the functions of a resistor and a relay. Limits harmful initial voltage surge to 25% of normal, yet allows full voltage after warm-up. Connects directly into the power line. For use with 110-120 v., AC-DC. Av. shpg. wt., 7 oz.



Stock No.	Type	Watts	NET
80 G 144	5301	100-275	.97
81 G 036	5302	250-400	1.15

G-C GLO-BAR THERMISTORS

Popular thermistors used in series-string filament circuits of RCA, Crosley, Philco, and other TV sets. A necessary service replacement item. *Matched pair; replaces filament resistors of G.E., M'rola, Sears, etc. Av. wt., 1 oz.



Stock No.	Type	Ohms		Replaces	NET EACH	
		Hot	Cold		1-9	10-Up
2 M 066	9214	20	250	GE RRW051	.79	.72
2 M 067	9215	75	950	GE RRW041	.79	.72
2 M 068	9216	31	260	GE RRW097	.83	.74
2 M 069	9217	35	460	GE RRW054	.83	.74
2 M 053	9265	11	250	Philco 6A735941	.79	.72
2 M 054	9266	50	1050	M'rola 33-1343-3	.71	.64
2 M 055	9267	10500 at 125V.		G.E. RRW052	.88	.79
2 M 070	9268	43	125	Crosley	1.00	.90
2 M 071	9269	9	200	RCA 100118	1.09	.98
2 M 072	9135	40	375	*(see above)	1.41	1.27

G-C TV FUSE-SISTORS

Reliable, low-cost replacement units for series-string TV tube circuits. Replace similar units in Raytheon, RCA, Motorola, Sylvania, Zenith and other TV receivers. All units are less than an inch in length; tinned leads for quick and easy installation. Av. shpg. wt., 1 oz.



Stock No.	Type	Ohms	List	1-9, EACH	10 or More, EACH
2 M 073	9276	5.6	.65	38¢	34¢
2 M 074	9207	1.5	.65	38¢	34¢
2 M 075	9277	9.0	.65	38¢	34¢
2 M 076	9278	22.0	.65	38¢	34¢

Type 9279 Fuse-Sistor Kit. Contains one each of above.
2 M 077. List, \$2.50. NET.....1.47

Model	Size HxWxL	Max. Oper. Temp. °C	Diss. Watts	Features
200L	3/8x1/4x1 1/4"	105	0.25	Standard "Trim pot."
120-15	3/8x1/4x1 1/4"	95	0.20	Carbon element for infinite resolution and high resistance.
200S	3/8x1/4x1 1/4"	105	0.25	Solder lug connectors.
215L	3/8x1/4x1 1/4"	125	0.25	Carbon element; infinite resolution; humidity-proof.
201L	3/8x1/4x1 1/4"	105	0.25	"TrimR" variable resistor; two leads.
260L	3/8x1/4x1 1/4"	175	1.0	High temperature model.
236L	2 3/4x1 3/4x1 1/2"	135	0.8	Humidity-proof; exceeds MIL-STD-202A, method 106.
222W	5/8x1 1/4x1"	175	1.0	Micro-miniature, "Trim pot, Jr."; high temperature humidity-proof; 15-turn adjustment.

RESISTANCES AVAILABLE—SPECIFY WHEN ORDERING

*Available in Model 201L Only.

Ohms	Ohms	Ohms	Ohms	Megohms	Megohms
10	200	5,000	30,000	.1†	.4
20	500	10,000	40,000	.1†	.4
50	1000	20,000†	50,000†	.2†	.75
100	2000	25,000*	75,000	.3	1.0†

When Ordering—Specify Stock No., Model No., and resistance.

Stock No.	Model	Resistances Available (See Table Above)	1-9, EACH	10-24, EACH	25-49, EACH
31 M 380	200L	10 to 10,000	4.86	4.50	4.05
31 M 381	200L	20,000 only	6.48	6.00	5.40
31 M 382	200-15	20,000 to 1.0 meg	4.86	4.50	4.05
31 M 383	200S	10 to 10,000	4.86	4.50	4.05
31 M 384	200S	20,000 only	6.48	6.00	5.40
31 M 385	201L	20,000 only	5.94	5.50	4.95
31 M 386	201L	25,000 only	5.94	5.50	4.95
31 M 387	201L	50,000 only	7.56	7.00	6.30
31 M 388	260L	10 to 10,000	5.94	5.50	4.95
31 M 394	260L	20,000	7.56	7.00	6.30
31 M 389	236L	10 to 10,000	7.02	6.50	5.85
31 M 390	236L	20,000	8.64	8.00	7.20
31 M 395	222W	100 to 10,000	8.64	8.00	7.20
31 M 396	222W	20,000 only	10.26	9.50	8.55
31 M 376	215L	Values indicated by †	5.94	5.50	4.95

BOURNS TRIMIT SUBMINIATURE POTENTIOMETERS

Low-cost miniature potentiometers. Occupy remarkably little space—body is only 1/4x5/8x1 1/4". May be stacked. Have 25-turn screwdriver adjustment with self-locking shaft. Supplied with flexible leads, solder lugs or pins for printed circuit mounting. (Appearance is similar to Trim pots above.) All Bourns units are rated at .25 watt. Carbon potentiometers are rated at .20 watt; element has infinite resolution. Temperature range, -55° to 185° C. Av. shpg. wt., 2 oz. When ordering—specify Stock No., Model No., and resistance value wanted.

WIRE-WOUND TRIMIT POTENTIOMETERS

Stock No.	Model	Terminals	Resistances Available (See Table Above)	NET EACH
31 M 397	271	Leads	100 to 10,000	1.94 1.80 1.62
31 M 398	273	Lugs		
31 M 399	275	Pins		

CARBON TRIMIT POTENTIOMETERS

Stock No.	Model	Terminals	Resistances Available (See Table Above)	NET EACH
31 M 377	272	Leads	†Values indicated	
31 M 378	274	Lugs		1.94 1.80 1.62
31 M 379	276	Pins		

BOURNS MOUNTING ACCESSORIES FOR ABOVE

Stock No.	Accessory	1-24, EACH	25-99, EACH
31 M 391	End Mounting Brackets	20¢	15¢
31 M 392	Side Mounting Brackets	20¢	15¢
31 M 393	2-56x1 1/4" Machine Screws	2¢	1 1/2¢

Ohmite, IRC and Centralab Controls

OHMITE POTENTIOMETERS

TYPE AS MINIATURE

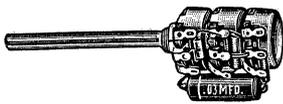


- Smallest Molded Composition Potentiometers
- Screwdriver Slotted
- No Rivets or Soldered Parts
- Made to Rigid Specifications
- Synthetic-Resin Sealed

New, linear-taper, miniature potentiometers combining exceptional reliability and extremely small size. Maximum continuous power rating is 0.5 watt. Only 1/2" in diameter—ideal for lightweight, miniaturized assemblies. Molded composition resistance and collector tracks (bridged by a molded composition brush) assure long life. Greater cross-section of resistor track lowers current density—gives excellent performance in excess of 50,000 operation cycles. Terminals are molded directly into control elements for trouble-free connections. Enclosures are sealed with synthetic resin to keep out dust, moisture and fungus. Terminals are goldplated for easy soldering, even after long storage. Have screwdriver-slotted, locking-type shafts. Rated at 350 v. 1/4" dia.; 1 1/4" long. Shaft: 3/4" long. Meet QQ-M-151, MIL-R-94A and EIA specifications. Types 3613, 3614 and 3615 have ±20% tolerance; others are ±10%. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Ohms	NET EACH
28 M 590	3601	100	5.00
28 M 581	3602	250	
28 M 582	3603	500	
28 M 583	3604	1K	
28 M 584	3605	2.5K	
28 M 585	3606	5K	5.00
28 M 586	3607	10K	
28 M 587	3608	25K	
28 M 588	3609	50K	
28 M 589	3610	1 meg	
28 M 590	3611	.25 meg	5.00
28 M 591	3612	.50 meg	
28 M 592	3613	1.0 meg	
28 M 593	3614	2.5 meg	
28 M 594	3615	5.0 meg	

IRC CONTROLS



TYPE LC-1 LOUDNESS CONTROL

Easily installed, loudness-type volume control. Permits complete listening pleasure during periods when amplifier volume must be kept low. Replaces conventional volume control in amplifier, radio or phono. Automatically compensates for reduced response of the ear to bass and treble frequencies at low volume. Audio output can be reduced to nearly whisper level and yet retain almost perfect tonal balance. Has input resistance of 5 megohms. Insertion loss is only 6 db. Space required behind panel: With switch 2 3/4", without switch, 1 3/4". With instructions, less AC switch (may be used with Type 76-1 or Type 76-2 switch, next column). Shpg. wt., 4 oz.

30 M 595. List, \$12.00. NET 7.06

TV SIGNAL ATTENUATOR

Type QJ-3. Economically priced L-pad television signal attenuator. For use with sets having 300-ohm twin tube antenna input. Minimizes interstation interference, definition loss and sound bars caused by excessive signal strength. Diminishes buzz or hum due to high signal level in intercarrier systems. Reduces overloading effects in strong signal area. In many cases, corrects or reduces horizontal or vertical jitters in picture; also picture and sound "break-over." Very useful device for the TV serviceman to simulate fringe-area signals when shop is located near powerful local station. A nearly constant 300-ohm load is maintained on antenna lead-in to minimize ghosts caused by mismatch of antenna lead to receiver. Easily mounted on cabinet or chassis. Slotted shaft for screwdriver adjustment. Supplied with mounting bracket and instructions. 7/8" diameter, 1" deep. Shaft: 1/4" diameter, 1/2" long. Shpg. wt., 3 oz.

29 M 915. List, \$4.00. NET 2.35



IRC Q CONTROLS WITH UNIVERSAL SHAFTS

Handle over 90% of all radio TV applications. Knurled, flattened and slotted. 3" universal shaft can be cut to desired length. 1/8" body dia. Bushing is 1/2" long. Use with "M" multi-sections (page 138) for ganged controls. *Includes 270-ohm, 1/2-watt bias resistor. Less switches (below). See taper explanation below. Av. shpg. wt., 4 oz.



No.	Type	Ohms	Taper	No.	Type	Ohms	Taper
30 M 395	Q11-201	250	A	30 M 318	Q13-128	100K	C
30 M 300	Q11-103	500	A	30 M 388	Q11-228	125K	A
30 M 377	Q11-105	750	A	30 M 875	Q11-328	150K	A
30 M 441	Q17-105	750	P	30 M 444	Q13-328	150K	C
30 M 301	Q11-108	1000	A	30 M 374	Q11-129	200K	A
30 M 379	Q17-108	1000	Q	30 M 319	Q11-130	250K	A
30 M 874	Q17-110	2000	Q	30 M 320	Q13-130	250K	C
30 M 442	Q11-109	1500	A	30 M 445	Q11-131	300K	A
30 M 380	Q17-109	1500	Q	30 M 876	Q11-132	350K	A
30 M 302	Q11-110	2000	A	30 M 321	Q13-132	350K	C
30 M 373	Q13-111	2500	C	30 M 322	Q11-133	500K	A
30 M 381	Q13-111	2500	Q	30 M 323	Q13-133	500K	C
30 M 303	Q11-112	3000	A	30 M 324	Q14-133	500K	D
30 M 382	Q17-112	3000	Q	30 M 397	Q17-133	500K	Q
30 M 304	Q11-114	5000	A	30 M 398	Q11-134	600K	A
30 M 383	Q13-114	5000	C	30 M 390	Q11-136	750K	A
30 M 384	Q17-114	5000	Q	30 M 325	Q11-137	1 meg	A
30 M 305	Q11-115	7500	A	30 M 326	Q13-137	1 meg	C
30 M 306	Q11-116	10K	A	30 M 327	Q14-137	1 meg	D
30 M 307	Q13-116	10K	C	30 M 877	Q17-137	1 meg	Q
30 M 308	Q14-116*	10K	D	30 M 328	Q11-138	1.5 meg	A
30 M 385	Q17-116	10K	Q	30 M 329	Q11-139	2 meg	A
30 M 309	Q11-119	20K	A	30 M 390	Q13-139	2 meg	C
30 M 310	Q16-119*	20K	Spec.	30 M 391	Q17-139	2 meg	Q
30 M 311	Q11-120	25K	A	30 M 331	Q11-239	2.5 meg	A
30 M 443	Q13-120	25K	C	30 M 332	Q11-140	3 meg	A
30 M 312	Q14-120*	25K	D	30 M 333	Q13-140	3 meg	C
30 M 313	Q11-121	30K	A	30 M 446	Q17-140	3 meg	Q
30 M 396	Q11-122	35K	A	30 M 334	Q11-141	5 meg	A
30 M 314	Q11-123	50K	A	30 M 287	Q12-141	5 meg	Spec.
30 M 315	Q13-123	50K	C	30 M 392	Q13-141	5 meg	C
30 M 316	Q14-123*	50K	D	30 M 393	Q17-141	5 meg	Q
30 M 387	Q11-125	75K	A	30 M 394	Q11-142	7.5 meg	A
30 M 317	Q11-128	100K	A	30 M 335	Q11-143	10 meg	A

NET EACH 91c

IRC TAPPED Q CONTROLS WITH UNIVERSAL SHAFTS

No.	Type	Megs	Taps, Ohms	Taper	No.	Type	Megs	Taps, Ohms	Taper
30 M 378	Q17-105X	750†	250	Spec.	30 M 347	Q17-137X	1.0	35K	Spec. H
30 M 878	Q17-110X	2K†	250/500	Spec.	30 M 346	Q17-137X	1.0	250K	Spec. H
30 M 379	Q13-118X	15K†	10K	Spec.	30 M 348	Q17-137XX	1.0	50K/100K	Spec. H
30 M 386	Q13-118XX	15K†	5K/10K	Spec.	30 M 349	Q18-137X	1.0	100K	Spec. H
30 M 288	Q17-118X	15K†	5K	Spec.	30 M 350	Q18-137XX	1.0	250K/.5 Meg.	Spec. H
30 M 447	Q17-118XX	15K†	5K-10K	Spec.	30 M 351	Q19-137X	1.0	.5 Meg.	Spec. H
30 M 389	Q17-328XX	.15	19K/38K	Spec.	QVC-539X		1.0	.5 Meg	Spec.
30 M 337	Q18-130X	.25	60K	H	30 M 391	Q13-138X	1.5	.25 meg	Spec.
30 M 336	Q13-130X	.25	125K	Spec.	30 M 358	Q19-139X	2.0	50K	Spec.
30 M 338	Q18-130XX	.25	60K/120K	Spec.	30 M 355	Q17-139X	2.0	150K	Spec.
30 M 339	Q17-132X	.35	35K	Spec.	30 M 357	Q18-139XX	2.0	250K/.5 Meg	Spec.
30 M 340	Q18-132X	.35	75K	H	30 M 344	Q13-139XX	2.0	.5Meg/1Meg	Spec.
30 M 342	Q17-133X	.5	25K	Spec.	30 M 353	Q13-139X	2.0	.5 Meg	H
30 M 343	Q13-133X	.5	50K	Spec.	30 M 345	Q18-139X	2.0	1 Meg	Spec.
30 M 341	Q13-133X	.5	125K	H	30 M 448	Q13-140X	3.0	900K	Spec.
30 M 344	Q19-133X	.5	250K	Spec.	30 M 449	Q18-140X	3.0	1.5 Meg	Spec.
30 M 345	Q18-133XX	.5	100K/200K	Spec.					

NET EACH 1.32

TYPE 76 ATTACHABLE SWITCHES FOR Q CONTROLS

Blue bakelite enclosure. Easily and quickly attached. U.L. Approved. Shpg. wt., 2 oz. 30 M 359, Type 76-1. SPST. NET 30 M 591, Type 76-2. DPST. EACH... 41c

EXPLANATION OF TAPERS

- Taper A.** Linear.
- Taper C.** Logarithmic curve for audio circuit control or antenna shunt control.
- Taper D.** Tapered at both ends to provide control of grid bias and antenna circuit. Used where control of grid bias is of prime importance in controlling gain.
- Taper H.** Tapped logarithmic curve. Audio level control for automatic bass compensation.
- Taper P.** Semi-logarithmic curve with reverse taper. For use in contrast and picture control circuits in television.
- Taper Q.** Same applications as Taper P above, but has slightly steeper curve.

CENTRALAB COMPENROL CONTROLS

TYPE C-1 COMPENROLS

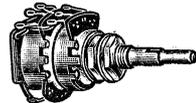
Combination volume control and tone compensator. The electronic circuit network is designed to improve the apparent bass and treble response of amplifiers, radio and TV sets, hi-fi equipment, phonographs, etc. when volume is at low level. Easily installed in place of existing volume controls. Switch is SPST. Shaft length, 3", 1/8" body dia. Shpg. wt., 5 oz.



Stock No.	Mfr's Type	Description	NET EACH
			1-4 5-49
30 M 421	C1-60	1/2 meg, plain	2.69 2.03
30 M 422	C1-60-S	1/2 meg, with switch	3.23 2.43
30 M 423	C1-70	1 meg, plain	2.69 2.03
30 M 424	C1-70-S	1 meg, with switch	3.23 2.43

TYPE C2-100 COMPENROL "SENIOR"

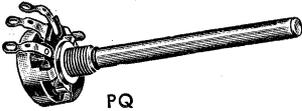
Combination volume control and tone compensator. Automatically compensates for reduced response of human ear at low volume levels. Adjusts for exact amount of compensation desired. A worthwhile addition to hi-fi, radios, TV, etc. Complete with two brown plastic knobs and installation instructions. Shaft length, 7/8". Shpg. wt., 6 oz. 30 M 436. NET EACH 4.41



Type C2-200. Same as C2-100 Compentrol above except in "Fastach" design. Front and rear units separate, enabling cutting of shafts to desired length before assembling. Wt., 8 oz. 30 M 437. NET EACH 4.65

IRC Controls

INDUSTRIAL CONTROLS



PQ



RQ



M

These versatile industrial-type controls have a smooth carbon base element and "two-finger" wiper arm of thin, high-stress alloy—assures good contact and low noise. Type M multi-sections can easily be added to either PQ, RQ or RQL types; Permit exact "tailoring" of dual, triple and quadruple units to meet individual requirements. Special-purpose controls can be made up by using a Type PQ, RQ or RQL with several M multi-sections and a Type 76 switch (listed below). Types PQ, RQ and RQL have a 3/8" threaded bushing. Body diameter less terminals is 1 1/8" maximum; body diameter including terminals is 1 5/8" maximum; depth behind panel, 3/16". Each Type M multi-section adds 1 1/2" to depth. Type PQ, RQ, RQL and M sections feature 300 degree arc of rotation—with or without switch. Power rating is 1/2 watt, 500 volts maximum.

PQ types have shaft 3" long, 1/4" diameter. RQ and RQL types have a short shaft with a screwdriver slot for use where adjustment is semi-permanent; shaft extends 1/8" beyond threaded bushing. Types RQ, RQL are the same except RQL has split bushing and locking nut for permanent, vibration-proof settings. Tolerance of all types is ±10%. Terminals timed for easy soldering. Ground plate on Types PQ, RQ, and RQL has two locating tabs either or both of which may be bent down if not needed. Av. shpg. wt., 4 oz. See **Explanation of Tapers** below.

Mfr's Type	Ohms	Taper*	Stock No. PQ	Stock No. RQ	Stock No. RQL	Stock No. M
11-103	500	A	30 M 510	30 M 542	29 M 271	30 M 592
11-108	1000	A	30 M 511	30 M 543	29 M 275	30 M 574
11-110	2000	A	30 M 512	30 M 544	29 M 273	30 M 593
11-112	3000	A	30 M 513	30 M 545	29 M 274	30 M 598
11-114	5000	A	30 M 514	30 M 546	29 M 275	30 M 575
11-115	7500	A	30 M 515	30 M 547		
11-116	10K	A	30 M 516	30 M 548	29 M 276	30 M 576
13-116	10K	C	30 M 517	30 M 549		
14-116	10K	D	30 M 518	30 M 550		
17-116	10K	Q				30 M 599
11-119	20K	A	30 M 519	30 M 551	29 M 277	
11-120	25K	A	30 M 520	30 M 552	29 M 278	30 M 577
14-120	25K	D	30 M 521	30 M 553		
11-121	30K	A	30 M 522	30 M 554	29 M 279	30 M 596
11-123	50K	A	30 M 523	30 M 555	29 M 280	30 M 578
13-123	50K	C	30 M 524	30 M 556	29 M 281	
14-123	50K	D	30 M 525	30 M 557		
11-128	100K	A	30 M 526	30 M 558	29 M 282	30 M 579
13-128	100K	C	30 M 527	30 M 559		30 M 580
11-129	200K	A	30 M 528	30 M 560	29 M 283	
11-130	250K	A	30 M 529	30 M 561	29 M 284	30 M 582
11-131	300K	A	30 M 530	30 M 562	29 M 286	30 M 583
13-133	500K	A	30 M 531	30 M 563	29 M 287	30 M 584
11-137	1.0 meg	A	30 M 532	30 M 564	29 M 288	30 M 585
13-137	1.0 meg	C	30 M 533	30 M 565	29 M 289	30 M 586
11-138	1.5 meg	A	30 M 534	30 M 566	29 M 290	
13-138	1.5 meg	C				30 M 499
11-139	2.0 meg	A	30 M 535	30 M 567	29 M 291	30 M 587
13-139	2.0 meg	C	30 M 536	30 M 568	29 M 292	30 M 588
11-239	2.5 meg	A	30 M 537	30 M 569	29 M 293	
11-140	3.0 meg	A	30 M 538	30 M 570	29 M 294	
13-140	3.0 meg	C	30 M 539	30 M 571		30 M 594
17-140	3.0 meg	Q				30 M 597
11-141	5.0 meg	A	30 M 540	30 M 572	29 M 295	30 M 599
11-143	10.0 meg	A	30 M 541	30 M 573	29 M 296	30 M 590

PQ, RQ and M Controls. NET EACH.....1.32
RQL Controls. NET EACH.....1.53

*EXPLANATION OF TAPERS

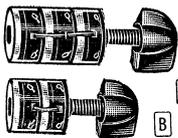
- Taper A. Linear curve for uniform resistance change.
- Taper C. Logarithmic curve for audio circuit control or antenna shunt control.
- Taper D. Tapered at both ends to provide control of grid bias or antenna circuit. Used where control of the grid bias is of prime importance in regulating the gain.
- Taper Q. Logarithmic curve with reverse taper for TV contrast and picture control.

TYPE 76 ATTACHABLE SWITCHES FOR PQ, RQ, RQL AND M CONTROLS

Can be easily attached to control by bending down four metal tabs. Switch housing is made of arc-resistant material. Terminals are hydraulically slotted—no openings for solder to run into switch. Contacts are silver-plated alloy—maintains low contact resistance to assure long life. Type 76-1 handles up to 5 amps at 125 v. Type 76-2 rated at 1 amp at 125 v. Shpg. wt., 2 oz. 30 M 359. Type 76-1. SPST. NET 30 M 591. Type 76-2. DPST. EACH.....41c

L AND T PAD SPEAKER CONTROLS

An excellent selection of L and T-type constant-impedance attenuator pads for controlling volume level of individual speakers in sound systems. Used in multi-speaker systems to permit raising or lowering volume at one speaker without affecting volume of other speakers. Widely used on music distribution equipment and with hi-fi extension speakers. Handle up to 10 watts of audio power (3 watts DC). L pad attenuators provide constant input impedances; T pad attenuators provide both constant input and output impedances. Diameter 1 1/4"; depth behind panel, 1 3/8" (L Pad) and 1 3/4" (T Pad). 7/8" bushing for mounting on panels up to 3/4" thick. With knob. Av. shpg. wt., 6 oz.

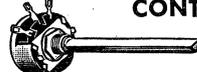


L PADS

T PADS

Stock No.	Mfr's Type	Impedance (ohms)	NET EACH	Stock No.	Mfr's Type	Impedance (ohms)	NET EACH
30 M 880	LP4	4	2.73	30 M 884	TP4	4	3.09
30 M 881	LP8	8		30 M 885	TP8	8	
30 M 882	LP15	15		30 M 886	TP15	15	
30 M 883	LP500	500		30 M 887	TP500	500	

UNIVERSAL WIRE-WOUND CONTROLS



Rugged 4-watt control. Replace Types W, WK, 4WK and 4WS. Have linear taper, except *left-hand logarithmic taper for TV focus and right-hand logarithmic taper for picture contrast. Rotation, 300°. Size: 1 1/2" dia., 2 3/8" deep; threaded bushing is 3/8" dia. and 3/8" long. Nickel-plated brass shafts, 1/4" dia. Type WP has round shaft, 3" long. Type WPK has 3" long "Knob Master" shaft—fits a wide variety of knobs. Type WPS has 3/4" long shaft, knurled at end and slotted. Type WM multi-sections can be attached to all controls. Shpg. wt., 4 oz.

WPK CONTROLS

Type	Ohms	Type	Ohms
WPK-10	10	WPK-1350R	1350+
WPK-20	20	WPK-1500	1500
WPK-30	30	WPK-1500L	1500*
WPK-50	50	WPK-2000	2000
WPK-100	100	WPK-2000L	2000*
WPK-200	200	WPK-2250L	2250*
WPK-230	230	WPK-2500	2500
WPK-300	300	WPK-2500R	2500+
WPK-400	400	WPK-3000	3000
WPK-500	500	WPK-4000L	4000*
WPK-600	600	WPK-5000	5000
WPK-650	650	WPK-5000L	5000*
WPK-750	750	WPK-6000	6000
WPK-750L	750+	WPK-6000L	6000*
WPK-750R	750+	WPK-7500	7500
WPK-1000	1000	WPK-7500L	7500*
WPK-1350	1350	WPK-10000	10,000

Specify Type No. and Ohms. 30 MM 216. NET EACH.....1.12

Type	Ohms	Type	Ohms
WPK-12500	12,500	WPK-20000	20,000
WPK-15000	15,000	WPK-25000	25,000

Specify Type No. and Ohms. 30 MM 199. NET EACH.....1.35

WPS CONTROLS

Type	Ohms	Type	Ohms
WPS-25	25	WPS-2000	2000
WPS-40	40	WPS-2250	2250
WPS-60	60	WPS-2250L	2250*
WPS-250	250	WPS-2500	2500
WPS-500	500	WPS-3000	3000
WPS-500L	500*	WPS-4000	4000
WPS-1000	1000	WPS-4000L	4000*
WPS-1500	1500	WPS-5000	5000

Specify Type No. and Ohms. 30 MM 217. NET EACH.....1.12

WP CONTROLS

Type	Ohms	Type	Ohms
WP-2	2	WP-200	200
WP-3	3	WP-250	250
WP-5	5	WP-300	300
WP-6	6	WP-400	400
WP-8	8	WP-500	500
WP-10	10	WP-750	750
WP-15	15	WP-1000	1000
WP-20	20	WP-1500	1500
WP-25	25	WP-2000	2000
WP-30	30	WP-2500	2500
WP-40	40	WP-3000	3000
WP-50	50	WP-4000	4000
WP-60	60	WP-5000	5000
WP-75	75	WP-7500	7500
WP-100	100	WP-10000	10,000

Specify Type No. and Ohms. 30 MM 215. NET EACH.....1.12

WM MULTISECTION CONTROLS

Ruggedly constructed 4-watt "add-on" control sections. Can be attached to the WPK, WPS or WP controls, listed above, to form dual control units. All have linear taper, except *Type WM-7500L which has left-hand logarithmic taper for TV focus. Rotation, 300°. Multisection adds 3/8" to depth. Shpg. wt., 2 oz.

Type	Ohms	Type	Ohms
WM-50	50	WM-2000	2000
WM-100	100	WM-2500	2500
WM-200	200	WM-3000	3000
WM-250	250	WM-5000	5000
WM-500	500	WM-7500L	7500*
WM-1000	1000	WM-10000	10,000
WM-1500	1500		

Specify Type No. and Ohms. 30 MM 860. NET EACH.....1.12

SWITCHES FOR ABOVE CONTROLS

Easily attached switches for all of above controls. Shpg. wt., 2 oz. 30 M 218. Type 76-11. SPST. NET 30 M 219. Type 76-12. DPST. EACH.....41c

General-Purpose and TV Controls

IRC EXACT-DUPLICATE TV CONTROLS

TYPE QJ

A wide selection of exact-duplicate controls for TV receivers. All duplicate the originals in every detail, there's never any installation problem when you use these carefully engineered replacement units. No time is wasted in cutting down shafts or enlarging mounting holes and no modifications in wiring are required.

In cases where the original control has a switch, the IRC exact-duplicate control is equipped with an identical switch—no additional parts are ever required. All controls are made of finest materials and constructed to highest standards to assure smooth, highly dependable operation—quality is always equal or superior to the originals.

Simply locate the name of the manufacturer and the part number of the original control in the table. You'll see the exact-duplicate IRC replacement in the adjoining column. Av. shpg. wt., 3 oz.



Stock No.	IRC No.	Mfr and Mfr's Part No.	NET	Stock No.	IRC No.	Mfr and Mfr's Part No.	NET
30 M 922	QJ-106	ADMIRAL: 75B11-10	2.20	30 M 916	QJ-49	PATHE: A24109	2.62
30 M 901	QJ-112	75B11-13, -15	2.62	30 M 940	QJ-231	A24124	2.62
30 M 902	QJ-113	75B11-16, -18	2.62	30 M 907	QJ-21	TVC-528-D	2.62
30 M 972	QJ-237	75B11-21	2.41	30 M 947	QJ-277	PHILCO:	2.41
30 M 978	QJ-425	75B17-1	2.41	30 M 919	QJ-82	33-5563-22	2.20
30 M 917	QJ-51	75B11-14	2.62	30 M 948	QJ-279	33-5563-39	2.20
30 M 977	QJ-418	AIRLINE: 78X12, -B	3.03	30 M 954	QJ-309	33-5563-36	3.03
30 M 929	QJ-162	C-8-217-3	2.20	30 M 971	QJ-391	33-5563-42	2.62
30 M 913	QJ-40	ARVIN: 22464-1	3.03	30 M 970	QJ-340	33-5563-44	3.03
30 M 913	QJ-40	BELL: 970111-7	3.03	30 M 965	QJ-357	33-5563-51	2.41
30 M 928	QJ-161	970111-8	2.20	30 M 985	QJ-501	33-5563-53	2.41
30 M 903	QJ-15	BENDIX: 262036-1	2.20	30 M 985	QJ-501	33-5563-63	2.20
30 M 915	QJ-48	BRUNSWICK: 390034	2.62	30 M 913	QJ-40	ROCA: 970111-7	3.03
30 M 929	QJ-162	390036	2.20	30 M 928	QJ-161	970111-18	2.20
30 M 928	QJ-161	970111-8	2.20	30 M 914	QJ-41	970111-30	3.03
30 M 979	QJ-446	CAPEHART: 4537A-1	2.62	30 M 930	QJ-168	970913-26	3.03
30 M 913	QJ-40	CBS (AIR KING): 970111-7	3.03	30 M 913	QJ-41	970913-27	2.20
30 M 977	QJ-418	CORONADO: 78X12	3.03	30 M 938	QJ-222	970913-30	3.03
30 M 959	QJ-332	PD-10-A	2.62	30 M 942	QJ-447	971666-6	3.03
30 M 907	QJ-21	TVC-528-D	2.62	30 M 984	QJ-496	971666-13	3.03
30 M 913	QJ-40	CROSLEY: 139170	3.03	30 M 986	QJ-504	971666-15	3.03
30 M 928	QJ-161	139173	2.20	30 M 928	QJ-161	REGAL: 20-2A, 970111-8	2.20
30 M 931	QJ-176	146856	2.62	30 M 914	QJ-41	CM4994, T-20-2	3.03
30 M 932	QJ-181	148098, -A	2.62	30 M 913	QJ-40	970111-7	3.03
30 M 933	QJ-183	149220	3.03	30 M 950	QJ-292	T-20-9	3.56
30 M 967	QJ-370	154085, -C, -F	2.62	30 M 944	QJ-261	SCOTT: 18A791705	3.03
30 M 924	QJ-115	DUMONT: 01027020	2.20	30 M 942	QJ-246	70W5027	3.03
30 M 920	QJ-84	01028210	3.03	30 M 916	QJ-49	VC12127, -B	3.03
30 M 915	QJ-48	EMERSON: 390034	2.62	30 M 916	QJ-49	SILVERTONE: A24109	2.62
30 M 929	QJ-162	390036	2.20	30 M 916	QJ-49	A24124	2.62
30 M 910	QJ-30	390074-6	2.62	30 M 956	QJ-363	A24142	2.62
30 M 911	QJ-32	390144	2.62	30 M 908	QJ-22	M258888	2.62
30 M 904	QJ-17	390167	2.62	30 M 952	QJ-305	M258889	2.41
30 M 916	QJ-313	390184, 390201	2.62	30 M 940	QJ-231	PB24124A	2.62
30 M 941	QJ-237	390187	3.03	30 M 907	QJ-21	TVC-528-D	2.62
30 M 975	QJ-410	390207	2.62	30 M 942	QJ-246	VC12127B, -C	3.03
30 M 913	QJ-40	FADA: 52.22	3.03	30 M 906	QJ-20	STROMBERG-CARLSON: 145164	2.62
30 M 946	QJ-270	52.64	3.15	30 M 937	QJ-205	SVLVANIA: 37-73153-1, -2	3.03
30 M 977	QJ-418	FIRESTONE: 78X12, -B	3.03	30 M 976	QJ-417	37-73876-3	3.03
30 M 940	QJ-231	A424124, PA24124	2.62	30 M 983	QJ-472	37-7373-1	2.82
30 M 940	QJ-231	REED: A24124	2.62	30 M 988	QJ-513	37-79047-1	2.62
30 M 926	QJ-147	G.E.: K68186-1	2.20	30 M 937	QJ-205	R73153	3.03
30 M 923	QJ-110	K681881-2	2.62	30 M 913	QJ-40	TECHMASTER: 11-7	3.03
30 M 934	QJ-200	K7170-1	3.03	30 M 928	QJ-161	11-8	2.20
30 M 935	QJ-201	K7170-2	3.03	30 M 959	QJ-332	TELE-KING: PD-10-A	3.03
30 M 962	QJ-350	K7170-3	3.03	30 M 907	QJ-21	TELE-TONE: TVC-528-D	2.62
30 M 936	QJ-203	K7171-1	2.62	30 M 905	QJ-19	TELE-VOGUE: VC-0033, -C	2.62
30 M 964	QJ-354	K7171-2	2.62	30 M 906	QJ-20	VC-0040	2.62
30 M 951	QJ-301	K821163-1	3.03	30 M 981	QJ-454	VC-0040-A	2.62
30 M 958	QJ-328	K83475-1	2.62	30 M 913	QJ-40	VC-0040-1	2.62
30 M 973	QJ-398	K83870-2	2.82	30 M 913	QJ-40	TRIAD: 970111-7	3.03
30 M 990	QJ-547	K83941-1	3.23	30 M 928	QJ-162	970111-8	2.20
30 M 987	QJ-506	K119166-1	2.82	30 M 949	QJ-291	TRAVLER: TV-VC-36	2.82
30 M 965	QJ-352	M71466-1	3.23	30 M 977	QJ-418	TRUETONE: 78X12, -A, -B	3.03
30 M 908	QJ-22	HALLIGRAFTERS: VC12127, B, D	3.03	30 M 929	QJ-162	C-8-217-3	2.20
30 M 952	QJ-305	25B889	2.41	30 M 928	QJ-161	VIDEO CORP: 970111-8	2.20
30 M 953	QJ-306	25B895	2.41	30 M 928	QJ-161	VIDEO PROD: EP-105	3.03
30 M 909	QJ-24	25B898	2.62	30 M 913	QJ-40	EP-107, -A	2.20
30 M 961	QJ-345	25B997	2.62	30 M 942	QJ-246	VISION MASTER: VC12127B	3.03
30 M 968	QJ-371	HOFFMAN: 4833, -2	2.62	30 M 921	QJ-91	WESTINGHOUSE: V-9235-2	2.20
30 M 913	QJ-40	14801	2.62	30 M 987	QJ-149	V-9877-1	2.20
30 M 928	QJ-161	14804	3.03	30 M 929	QJ-382	V-9877-A, -5, -6	3.03
30 M 929	QJ-162	MAJESTIC: C-8-217-3	2.20	30 M 985	QJ-519	V-9877-7, -8	3.03
30 M 900	QJ-9	C-8-230-1	2.62	30 M 955	QJ-310	V-10954-1	3.03
30 M 900	QJ-9	METEOR: C-8-230-1	2.62	30 M 982	QJ-464	V-11695-1	3.44
30 M 942	QJ-246	MIRRORTONE: VC12127, B, D	3.03	30 M 939	QJ-229	ZENITH: 63-1667	2.62
30 M 957	QJ-322	MOTOROLA: 18K702864	3.50				
30 M 969	QJ-380	18B720263	3.50				
30 M 943	QJ-260	18K721910	3.44				
30 M 944	QJ-261	18A790166	3.03				
30 M 945	QJ-262	18A791705	3.03				
30 M 900	QJ-19	MUNTZ: C-8-230-1	2.62				
30 M 905	QJ-9	VC-0033, -B, -C, -D	2.62				
30 M 906	QJ-20	VC-0040, -A, -B	2.62				
30 M 981	QJ-454	VC-0040-1	2.62				
30 M 925	QJ-131	OLYMPIC: PT-1478	2.20				
30 M 928	QJ-161	PT-1479	2.20				
30 M 912	QJ-34	PT-2267	2.62				

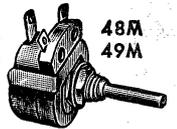
CLAROSTAT CONTROLS

MINIATURE CONTROLS

High quality miniaturized potentiometers designed for transistor circuits or equipment where extremely compact controls are required. Available with composition or wire-wound elements. All have resistance tolerance of $\pm 10\%$; linear taper; mechanical and electrical rotation of 300°. Types 48M and 49M have $1/8"$ dia. bushings, $1/8"$ long; shafts are $1/8"$ dia., $1/2"$ long beyond bushings. Types 48M-9 and 49M-9 are identical except for $3/4"$ long locking bushings and $1/8"$ long screw driver slotted shafts. Av. shpg. wt., 5 oz. Industrial users—write for quantity prices on 50 or more.



48M-9
49M-9



48M
49M

TYPES 48M AND 48M-9 COMPOSITION POTS

Composition elements. Power rating, 0.2 watts. Insulation tested at 1000 v. AC (terminals to ground). Control size: $1\frac{1}{2} \times \frac{3}{8} \times \frac{1}{2}$ dia.

RESISTANCES AVAILABLE—SPECIFY WHEN ORDERING

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1000	2500	7500	25K	100K	500K	2.5 meg.
1500	5000	10,000	50K	250K	1meg.	

Stock No.	Mfrs. Type	Resistances Available (See Table Above)	NET EACH		
			1-9	10-24	25-49
31 MM 240	48M	1000 ohms to 2.5 meg.	4.28	3.21	2.78
31 MM 243	48M-9	1000 ohms to 2.5 meg.	4.60	3.45	2.98

TYPES 49M AND 49M-9 WIRE WOUND POTS

Wire-wound elements. Power rating, 1.5 watts. Insulation tested at 1000 v. AC (terminals to ground). Control size: $1\frac{1}{2} \times \frac{3}{8} \times \frac{1}{2}$ dia.

RESISTANCES AVAILABLE—SPECIFY WHEN ORDERING

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
5	25	200	1000	2500	10K
10	50	250	1500	5000	20K
20	100	500	2000	7500	

Stock No.	Mfrs. Type	Resistances Available (See Table Above)	NET EACH		
			1-9	10-24	25-49
31 M 298	49M	5	8.29	6.21	5.32
31 M 245	49M	10 to 10K	6.53	4.98	4.28
31 M 297	49M	20K	8.29	6.21	5.32
31 M 299	49M-9	5 to 10K	8.61	6.43	5.44
31 M 235	49M-9	10 to 10K	6.95	5.22	4.40
31 M 233	49M-9	20K	6.61	5.43	4.54

TYPE 58 3-WATT WIRE-WOUND CONTROLS

Excellent 3-watt wire-wound controls. Designed to provide extremely smooth quiet operation. Ideal for use as voltage dividers, bias controls, and similar applications. Have linear windings; resistance tolerance of $\pm 10\%$. Insulation tested to 1000 v. A.C. Control size: $2\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ dia. Shaft size: $2 \times \frac{1}{4}$ dia. Molded phenolic body. Av. shpg. wt., 4 oz.



RESISTANCES AVAILABLE—SPECIFY WHEN ORDERING

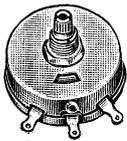
| Ohms | Ohms | Ohms | Ohms | Ohms | Ohms | Ohms |
|------|------|------|------|------|------|------|
| 1 | 15 | 50 | 300 | 1500 | 7500 | 25K |
| 2 | 20 | 60 | 400 | 2000 | 10K | 30K |
| 4 | 25 | 75 | 500 | 2500 | 15K | 40K |
| 6 | 30 | 100 | 750 | 3000 | 20K | 50K |
| 10 | 40 | 200 | 1000 | 5000 | | |

Stock No.	Mfrs. Type	Resistances Available (See Table Above)	NET EACH		
			1-9	10-24	25-49
31 MM 120	58	1 ohm to 10K			.91
31 MM 121	58	15K; 20K; 25K			1.18
31 MM 122	58	30K; 40K; 50K			1.59

TYPES 53C1 AND 53C2 MOLDED COMPOSITION POTS

High-quality molded, composition controls. Completely sealed against moisture for extreme stability under any climatic conditions. Excellent for use in critical applications such as test equipment, computers, servo systems, etc. Wiper assembly is of one piece construction with carbon to carbon contact, insuring exceptionally low noise level. Have stainless steel shafts and gold plated terminals. Type 53C1 has $1/8"$ dia. shaft, $1\frac{1}{8}"$ long and $3/8"$ dia. bushing $3/8"$ long. Type 53C2 has $1/8"$ shaft $1\frac{1}{8}"$ long with screwdriver slot and a $3/8"$ dia. locking bushing $1/2"$ long. Tolerance of $\pm 10\%$. Linear taper. Control size is $3/8 \times 1\frac{1}{2} \times \frac{1}{2}$ dia. Wt., 4 oz.

Mallory Controls



"M" AND "MT" WIRE WOUND CONTROLS

For industrial and laboratory use as bias controls and voltage dividers. Also for TV replacement. 4 watts. Arm insulated from shaft. 294° rotation. Knurled 1/4" shaft is 3/8" long; has screwdriver slot. "M" shaft is hollow to accept DS-36 and DS-37 shafts (see below, right). MT types center-tapped TV units. 1 1/2" dia. x 3/8". Mount in 3/8" hole. Linear taper. Shpg. wt., 4 oz.

POTENTIOMETERS

No.	Type	Ohms	EA.	No.	Type	Ohms	EA.
29 M 424	M1PK	1	1.32	29 M 411	M500PK	500	1.32
29 M 425	M3PK	3		29 M 412	M600PK	600	
29 M 426	M6PK	6		29 M 413	M1MPK	1000	
29 M 427	M10PK	10		29 M 431	M1.5MPK	1500	
29 M 428	MT10PK	10	1.29	29 M 414	M2MPK	2000	1.32
29 M 400	M15PK	15	1.32	29 M 432	M2.5MPK	2500	
29 M 401	M20PK	20	1.32	29 M 415	M3MPK	3000	
29 M 429	MT20PK	20	1.29	29 M 416	M4MPK	4000	
29 M 402	M25PK	25	1.32	29 M 417	M5MPK	5000	1.44
29 M 403	M30PK	30		29 M 418	M10MPK	10000	
29 M 430	M30PK	30		29 M 419	M15MPK	15000	
29 M 404	M40PK	40		29 M 420	M20MPK	20000	
29 M 405	M50PK	50	1.32	29 M 421	M25MPK	25000	1.71
29 M 406	M60PK	60		29 M 422	M50MPK	50000	
29 M 407	M75PK	75		29 M 423	M70MPK	70000	
29 M 408	M100PK	100		29 M 433	M75MPK	75000	
29 M 409	M200PK	200		29 M 434	M100MPK	100000	2.41
29 M 410	M400PK	400					

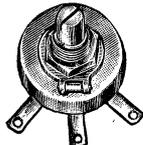
RHEOSTATS

Have open or "off" position counter-clockwise.

No.	Type	Ohms	Amps	No.	Type	Ohms	Amps
29 M 451	M05RK	1/2	2.80	29 M 459	M20RK	20	.45
29 M 452	M1RK	1	2.00	29 M 460	M25RK	25	.40
29 M 453	M2RK	2	1.40	29 M 461	M30RK	30	.37
29 M 454	M3RK	3	1.15	29 M 462	M40RK	40	.32
29 M 455	M4RK	4	1.00	29 M 463	M50RK	50	.28
29 M 456	M6RK	10	.82	29 M 464	M60RK	60	.26
29 M 457	M10RK	10	.65	29 M 465	M75RK	75	.23
29 M 458	M15RK	15	.52	29 M 466	M100RK	100	.20

NET EACH..... 91c

29 M 651, Type 395 Dial Plate. For "M" Controls. 2 oz. NET..... 15c



"C" WIREWOUND CONTROLS

Ideal for limited-space applications. Conservatively rated to dissipate 2 watts. Contact arm grounded to shaft. 266° effective electrical rotation. 1 1/8" dia. x 7/16" deep. 1/4" shaft, slotted 3/8" x 1/8" deep, extends 3/8" from bushing. Hexagon nut furnished. Use dial plate 34 B 622, listed below. Linear taper. Av. shpg. wt., 4 oz.

POTENTIOMETERS

No.	Type	Ohms	Amps	No.	Type	Ohms	Amps
29 M 720	C6P	6	.58	29 M 725	C40P	40	.22
29 M 721	C10P	10	.45	29 M 726	C50P	50	.17
29 M 722	C15P	15	.37	29 M 727	C100P	100	.14
29 M 723	C20P	20	.32	29 M 728	C200P	200	.1
29 M 724	C30P	30	.26	29 M 729	C400P	400	.07

NET EACH..... 1.06

29 M 730, C1MP | 1000 | .045 | 29 M 731 | C3MP | 3000 | .025

NET EACH..... 1.18

29 M 732, C5MP | 5000 | .02 | 29 M 734, C10MP | 10000 | .014

29 M 733, C6MP | 6000 | .018 | 29 M 735, C15MP | 15000 | .011

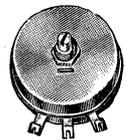
NET EACH..... 1.44

RHEOSTATS

No.	Type	Ohms	Amps	No.	Type	Ohms	Amps
29 M 700	C6R	6	.58	29 M 704	C30R	30	.26
29 M 701	C10R	10	.45	29 M 705	C40R	40	.22
29 M 702	C15R	15	.37	29 M 706	C50R	50	.20
29 M 703	C20R	20	.32	29 M 707	C100R	100	.14

NET EACH..... 91c

34 B 622, Type 393 Dial Plate. For "C" controls. 2 oz. NET..... 21c



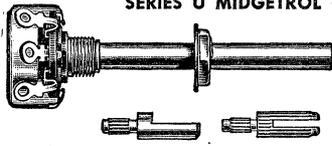
"E" WIREWOUND POTENTIOMETERS

Ruggedly constructed, heavy-duty, wire-wound potentiometers. Conservatively rated to dissipate 7 watts. For industrial, laboratory production control and research applications. Contact arm grounded to shaft. 295° effective electrical rotation. 2 3/8" dia. x 3/8" deep. 1/4" shaft slotted 3/8" x 1/8" deep, extends 1/2" from bushing. Mount in 3/4" hole. Hexagon nut furnished. Use dial plate 29 M 650, listed below. Linear taper. 6 oz.

No.	Type	Ohms	Amps	NET
29 M 480	E5MP	5000	.042	2.70
29 M 481	E10MP	10,000	.03	2.88
29 M 482	E20MP	20,000	.021	2.94
29 M 483	E25MP	25,000	.019	3.09
29 M 484	E50MP	50,000	.0135	3.09
29 M 485	E75MP	75,000	.011	3.18
29 M 486	E100MP	100,000	.0095	3.23
29 M 487	E125MP	125,000	.0085	3.23
29 M 488	E150MP	150,000	.0078	3.29

29 M 650, Type 399 Dial Plate. For "E" Controls. 2 oz. NET..... 21c

SERIES U MIDGETROL CONTROLS



For audio, tone and similar control circuits in home receivers, audio amplifiers, portables, TV sets, and industrial electronic equipment. Available in a full line of resistances, tapers, and caps. Round, hollow shaft—easily cut to desired length.

Length Two spline-shank knob adapters furnished with each Midgetrol—see illustration above. With nut and lock washer. 1 1/8" dia. brass shaft, 2 1/8" long, 1/4" dia. Less switch (see below). Shpg. wt., 3 oz.

No.	Type	Ohms	Taper*	No.	Type	Ohms	Taper*
29 M 714	U-1	100	4	29 M 764	U-36	75K	1
29 M 715	U-52R	500	2	29 M 765	U-39	100K	1
29 M 709	U-2	500	4	29 M 766	U-40	100K	2
29 M 638	U-751R	750	2	29 M 767	U-41	100K	4
29 M 796	U-3	1K	2	29 M 795	U-415	125K	4
29 M 785	U-4	1K	4	29 M 768	U-42	150K	1
29 M 797	U-5	1500	2	29 M 769	U-43	200K	4
29 M 786	U-6	2K	4	29 M 770	U-44	250K	1
29 M 798	U-7	2500	2	29 M 771	U-45	250K	2
29 M 787	U-8	3K	4 1/2	29 M 772	U-46	250K	4
29 M 717	U-9	3K	1	29 M 773	U-48	500K	1
29 M 751	U-12	5K	2	29 M 774	U-50	500K	4
29 M 752	U-14	5K	1	29 M 775	U-51	750K	1
29 M 753	U-18	10K	1	29 M 713	U-52	1 Meg	2
29 M 754	U-19	10K	2	29 M 776	U-53	1 Meg	1
29 M 755	U-20	10K	4	29 M 777	U-54	1 Meg	4
29 M 756	U-21	15K	1	29 M 790	U-155	1.5 Meg	4
29 M 757	U-22	15K	2	29 M 778	U-55	2 Meg	1
29 M 758	U-24	20K	1	29 M 781	U-56	2 Meg	4
29 M 783	U-26	20K	4	29 M 784	U-255	2.5 Meg	4
29 M 759	U-28	25K	2	29 M 779	U-57	3 Meg	1
29 M 712	U-28A	25K	1	29 M 782	U-59	3 Meg	4
29 M 760	U-29	25K	4	29 M 780	U-65	5 Meg	1
29 M 761	U-33	50K	2	29 M 783	U-66	5 Meg	1
29 M 762	U-34	50K	2	29 M 789	U-82	10 Meg	4
29 M 763	U-35	50K	4				

NET EACH..... 91c

EXPLANATION OF TAPERS*

- Taper No. 1: For use in audio or antenna shunt circuits.
- Taper No. 2: For series circuits or cathode voltage controls.
- Taper No. 4: Linear. For voltage control.

TYPE UT SINGLE-TAPPED MIDGETROLS

Same as U-types above, but tapped for tone compensation.

No.	Type	Ohms	Tap	No.	Type	Ohms	Tap
29 M 718	UT-153	15K	10K	29 M 862	UT-438	1 Meg	300K
29 M 802	UT-420	250K	50K	29 M 806	UT-443	1 Meg	450K
29 M 803	UT-425	350K	70K	29 M 807	UT-450	2 Meg	125K
29 M 816	UT-429	500K	50K	29 M 808	UT-448	2 Meg	250K
29 M 804	UT-427	500K	100K	29 M 809	UT-454	2 Meg	400K
29 M 860	UT-430	500K	150K	29 M 863	UT-449	2 Meg	600K
29 M 805	U-431	500K	225K	29 M 810	UT-451	2 Meg	900K
29 M 861	UT-440	1 Meg	200K	29 M 817	UT-457	3 Meg	900K

NET EACH..... 1.32

TYPE UDT DOUBLE-TAPPED MIDGETROLS

No.	Mfr's Type	Ohms	Taps	EACH
29 M 988	UDT-283	500K	100K/200K	1.32
29 M 989	UDT-289	1 Meg	250K/500K	
29 M 990	UDT-291	1.5 Meg	225K/500K	
29 M 991	UDT-295	2.25 Meg	500K/1 Meg	
29 M 992	UDT-296	2.25 Meg	500K/1 Meg	
29 M 719	UDT-303	3.3 Meg	300K/1.5 Meg	

TYPE SU INSULATED-SHAFT MIDGETROLS FOR TV

Size and basic construction are the same as Midgetrols listed above, except the SU type control has a 1/4" dia., fixed knurled and slotted phenolic shaft, protruding 1/4" beyond bushing. Meet exact physical and electrical requirements for special applications. Linear taper. With hex nut. Shpg. wt., 3 oz.

No.	Mfr's Type	Ohms	No.	Mfr's Type	Ohms
29 M 646	SU-6	1.5K	29 M 828	SU-46	500K
29 M 647	SU-8	3K	29 M 814	SU-50	250K
29 M 832	SU-14	5K	29 M 829	SU-54	1 Meg
29 M 826	SU-20	10K	29 M 830	SU-56	2 Meg
29 M 812	SU-29	25K	29 M 833	SU-565	2.5 Meg
29 M 827	SU-35	50K	29 M 831	SU-59	3 Meg
29 M 813	SU-41	100K	29 M 815	SU-67	5 Meg

NET EACH..... 91c

SWITCHES AND ACCESSORIES FOR MIDGETROLS

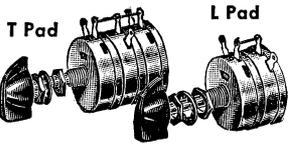
- "Push-on, stay-on" switches for Midgetrols. Shpg. wt., 2 oz.
- 29 M 620, US-26 SPST Switch. NET..... 41c
- 29 M 621, US-26 SPST Switch. With dummy terminal. NET..... 53c
- 29 M 622, US-27 DPST Switch. NET..... 41c
- 29 M 623, US-28 SPDT Switch. NET..... 53c
- 29 M 985, DS-36 Special 3" Extension Shaft. For tubular shaft Midgetrols, TV and industrial 2-watt controls, and Type "M" pots. Also couples front and rear sections together. Shpg. wt., 2 oz. NET..... 32c
- 29 M 882, DS-37 3/8" Diameter Shaft. For use with round-shaft Midgetrols to accommodate knobs requiring 3/8" shaft. Wt. 2 oz. NET..... 32c
- 29 M 987, EB-214 Special Bushing. Dimensions: 1/2"—28 thread, 2 3/8" long with .403" milled flat. Shpg. wt., 2 oz. NET..... 53c

Industrial and Special Controls

MALLORY CONTROLS

SPEAKER CONTROLS

Constant-load attenuator pads. Widely used to control the level of low-impedance audio circuits in sound systems. Rated at 4 watts, continuous DC; 15 w. peak audio. Have 2 shafts. Bushing sizes $\frac{1}{8}$ " x $\frac{3}{8}$ " diameter. Supplied with bak. knob, 0-10 dial plate and wiring instructions. Av. shpg. wt., 7 oz.



T Pad Attenuators. Present constant sound impedance as well as constant load at all control settings. Size: $1\frac{1}{2}$ " dia., $1\frac{1}{8}$ " deep.

L Pad Attenuators. Present a constant load impedance at all control settings. Size: $1\frac{1}{2}$ " dia., $1\frac{1}{8}$ " deep.

Ohms	Stock No.	Type	Stock No.	Type
2	29 M 868	T2	29 M 883	L2
4	29 M 869	T4	29 M 884	L4
6	29 M 870	T6	29 M 885	L6
8	29 M 871	T8	29 M 882	L8
15	29 M 872	T15	29 M 886	L15
50	29 M 873	T50	29 M 887	L50
100	29 M 865	T100	29 M 920	L100
200	29 M 874	T200	29 M 888	L200
250	29 M 875	T250	29 M 889	L250
500	29 M 876	T500	29 M 890	L500
600	29 M 866	T600	29 M 921	L600
1000	29 M 867	T1000	29 M 922	L1000
2000	29 M 877	T2000	29 M 891	L2000
3000	29 M 878	T3000	29 M 923	L3000
4000			29 M 708	L4000

"T" Pads. NET EACH.. 3.03 | "L" Pads. NET EACH.. 2.68

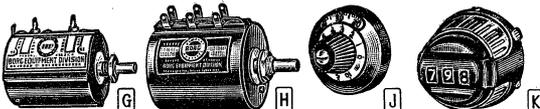
VOLUME CONTROL ACCESSORIES

*Couples $\frac{1}{4}$ " shafts to $\frac{1}{2}$ " or $\frac{1}{8}$ " to $\frac{3}{8}$ " shafts. †Bushing for panel mounting. ‡Extends body of control $\frac{1}{8}$ " away from mounting surface. Av. shpg. wts.: Brackets, 3 oz.; shafts, couplers and bushings, $1\frac{1}{4}$ oz.



No.	Type	Fig.	Description	EACH
29 M 676	RB249	A	Mtg. bracket. Mtg. Ctrs. $2\frac{1}{2}$ "	24¢
29 M 675	RB248	A	Mtg. bracket. Mtg. Ctrs. $1\frac{1}{2}$ "	21¢
29 M 661	EB247†	E	Extender	41¢
29 M 665	178	C	Wrench for $\frac{1}{2}$ "- $\frac{3}{8}$ " v.c. hex nuts	50¢
29 M 655	RS243	F	Ext. shaft, $4\frac{1}{4}$ " x $\frac{1}{2}$ " flat.	56¢
29 M 656	RS243	F	Ext. shaft, $4\frac{1}{4}$ " x $\frac{3}{4}$ " flat.	
29 M 657	RS244	F	Ext. shaft, $4\frac{1}{2}$ " x $\frac{3}{4}$ " flat.	
29 M 658	RS245	F	Ext. shaft, $2\frac{1}{4}$ " with $\frac{3}{8}$ " slot.	79¢
29 M 677	EC240*	B	Coupling	59¢
60 H 390	UB241‡	D	Bushing	9¢

G. W. BORG 'MICROPOTS' AND 'MICRODIALS'



G Model 205 "Micropots." High-precision, ten-turn linear pots. Widely used in electronic instruments, industrial and military controls, electronic computers, etc. Resistance is directly proportional to the shaft rotation. Linearity, 0.1%. Smooth action and low uniform torque. Anti-backlash spring in contact guide. Mechanical and electrical rotation, 3600°. Power dissipation, 5 watts @ 40° C. Average life more than 1 million revolutions. Control size: $2\frac{1}{2}$ " x $1\frac{1}{4}$ " dia. Shaft, $\frac{1}{8}$ " long. Av. shpg. wt., $1\frac{1}{2}$ lbs.

Stock No.	Ohms	Stock No.	Ohms	Stock No.	Ohms
29 M 680	100	29 M 683	5000	29 M 686	50K
29 M 681	50	29 M 684	10K	29 M 687	100K
29 M 682	1000	29 M 685	20K		

NET EACH..... 15.00

H Model 1111B Micropots. High quality precision ten-turn potentiometers. Similar to above but designed chiefly for commercial applications. Rated at 3 watts @ 40° C. Linearity accuracy is 0.5%. Have average life of more than 500,000 revolutions. Control size: $2\frac{1}{2}$ " x $1\frac{1}{4}$ " diameter. Shaft, $\frac{1}{8}$ " long. Av. shpg. wt., $1\frac{1}{2}$ lbs.

Stock No.	Ohms	Stock No.	Ohms	Stock No.	Ohms
31 M 991	100	31 M 994	5K	31 M 997	50K
31 M 992	500	31 M 995	10K	31 M 998	100K
31 M 993	1000	31 M 996	20K		

NET EACH..... 10.68

J Ten-Turn "Microdials." For above. Have 2 concentrically mounted dials—one for counting increments of each turn and the other for counting turns. Built-in fingertip brake. May be locked in any position. For panels to $\frac{3}{8}$ " thick. Type 1320 has bright chrome cover and chrome dial. Type 1327 has dull black cover and dull black dial. Overall diameter, $1\frac{3}{4}$ ". Overall depth, $1\frac{1}{8}$ ". Shpg. wt., 4 oz.

29 M 696. Model 1320. NET 5.85
29 M 697. Model 1327. EACH..... 5.85

K Model 1307 Direct Reading Microdial. For use with Micropots above. Three digit readings give close indexing accuracy. For operation at speeds up to 100 rpm. Rotation is continuous in either direction. Built-in, finger-tip brake—may be locked in any position. Size: $1\frac{1}{2}$ " x $2\frac{1}{2}$ " dia. 4 oz.
29 M 678. NET..... 14.55

2-WATT TV AND INDUSTRIAL CONTROLS

Two-watt wirewound potentiometers designed especially for replacement of television controls. Also excellent for use as voltage dividers and bias controls. Insulated contact arm type, linear taper. Special dual contactor mechanism. 900 volts AC insulation between resistance element and chassis. 29° rotation. Taper 4. 1 3/4" in diameter. Knurled shaft has screwdriver slot. *Center-tapped. 3/8" bushing. Shpg. wt., 4 oz.



No.	Type	Ohms	NET	No.	Type	Ohms	NET
29 M 835	R20L	20	.91	29 M 842	R1000L	1000	.91
29 M 836	R20CT*	20	1.29	29 M 843	R1500L	1500	.91
29 M 837	R25L	25	.91	29 M 844	R2500L	2500	.91
29 M 838	R30L	30	.91	29 M 846	R3000L	3000	.91
29 M 839	R30CT*	30	1.29	29 M 845	R5000L	5000	.91
29 M 840	R50L	50	.91	29 M 692	R7500L	7500	1.06
29 M 841	R100L	100	.91	29 M 693	R10ML	10,000	1.06
29 M 841	R250L	250	.91	29 M 694	R15ML	15,000	1.06
29 M 834	R500L	500	.91	29 M 695	R20ML	20,000	1.06

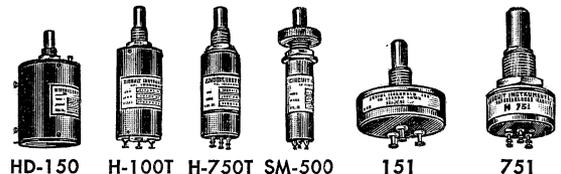
THEATER SPEAKER CONTROLS

Precision units developed especially as controls in drive-in theater speaker installations. Withstand extremes of temperature and humidity. TSA-10 is an L-pad with 10-ohm input and 4-ohm output. TSA-35 is a 35-ohm series-type potentiometer. TSA-6 is a 6-ohm shunt-type attenuator. $1\frac{1}{4}$ " dia. cases. Shafts are $\frac{1}{2}$ " long; *steel (knurled), †brass. Shpg. wt., 4 oz.



No.	Mfr's Type	Description	EACH
29 M 847	*TSA-10	L-pad	1.44
29 M 848	*TSA-35	Potentiometer	1.06
29 M 849	†TSA-6	Shunt-type Attenuator	1.06

IRC "CIRCUIT INSTRUMENTS" CONTROLS



MINIATURE PRECISION POTENTIOMETERS

An excellent selection of ten-turn and one-turn precision linear potentiometers. All have highly desirable characteristics of low temperature coefficient (20 ppm), fine resolution, long rotational life, and high corrosion resistance. Insulated copper cores are wound with precision metal-alloy wire resistance elements—carefully selected for each individual resistance range. Gold alloy contacts running on coin silver are used for the common contact; all moving contacts are alloys chosen for low contact resistance and long rotational life. All have max. torque of 2 oz. in. except types 151 and 751 with 4 oz. in. All except HD-150 have brass bushings, $\frac{3}{8}$ " dia. and $\frac{1}{2}$ " long; HD-150 has $\frac{5}{8}$ "-dia. bushing. Types HD-150, H-100T and H-750T have black, phenolic cases and shafts of nickel-plated brass. Types SM-500, 151, and 751 have nickel-plated brass cases with stainless steel shafts. All shafts are $\frac{1}{2}$ " x $\frac{1}{4}$ " dia. Av., 3 oz.

Model HD-150. 5-watt, 10-turn potentiometers. Tolerance, ±5%; linearity, ±0.5%. 2" long, $1\frac{1}{2}$ " dia. Available in 1K, 5K, 10K, 20K, 50K and 100K ohms—specify value when ordering.

31 MM 530, 1-9, NET EACH... 10.00 10-24, EACH..... 9.50
25-99, EACH..... 9.00 100-Up, EACH..... 8.50

Model H-100T. 4-watt, 10-turn potentiometers. Tolerance, ±5%; linearity, ±0.5%. $2\frac{1}{2}$ " long, 1" dia. Available in 500, 1K, 2.5K, 5K, 10K, 50K and 100K ohms—specify value when ordering.

31 MM 535, 1-9, NET EACH... 12.50 10-24, EACH..... 11.25
25-99, EACH..... 10.00 100-Up, EACH..... 9.38

Model H-750T. 3-watt, 10-turn potentiometers. Tolerance, ±5%; linearity, ±0.5%. $1\frac{1}{2}$ " long, $\frac{3}{4}$ " dia. Available in 250, 500, 1K, 5K, 10K, 25K and 50K ohms—specify value when ordering.

31 MM 540, 1-9, NET EACH... 14.40 10-24, EACH..... 12.96
25-99, EACH..... 11.50 100-Up, Each..... 10.80

Model SM-500. 1.5-watt, 10-turn potentiometers. Tolerance, ±10%; linearity ±1%. $1\frac{1}{2}$ " long, $\frac{1}{2}$ " dia. Available in 500, 1K, 5K, 10K and 25K ohms—specify value when ordering.

31 MM 545, 1-9, NET EACH... 12.50 10-24, EACH..... 11.25
25-99, EACH..... 10.00 100-Up, EACH..... 9.38

Model 151. 3-watt, one-turn potentiometers. Tolerance, ±5%; linearity ±0.5%. $\frac{1}{2}$ " long, $\frac{1}{2}$ " dia. Available in 100, 500, 1K, 2.5K, 5K and 10K ohms—specify value when ordering.

31 MM 550, 1-9, NET EACH... 8.75 10-24, EACH..... 7.87
25-99, EACH..... 7.00 100-Up, EACH..... 6.55

Model 751. 1-watt, one-turn potentiometers. Tolerance, ±10%; linearity, ±1%. $\frac{3}{8}$ " long, $\frac{3}{4}$ " dia. Available in 100, 250, 500, 1K, 5K and 10K ohms—specify value when ordering.

31 MM 555, 1-9, NET EACH... 8.55 10-24, EACH..... 7.70
25-99, EACH..... 6.84 100-Up, EACH..... 6.41

DIRECT READING REVODEX DIALS

High quality turn-indicating knob for above precision pots or any with $\frac{1}{8}$ " shafts. Gives 3-digit readings accurate within one hundredth of a turn for any device with ten turns or less. Has locking-screw for holding dial at desired readings. Choice of black or clear anodized aluminum body. Size: $1\frac{1}{2}$ " x $1\frac{1}{2}$ " dia. Wt., 5 oz.

31 M 551.	Black Anodized Aluminum.	NET 5.75
31 M 552.	Clear Anodized Aluminum.	EACH... 4.88
10-24, EA.....	5.46	25-99, EA..... 5.17
100-199, EA.....		4.88



Cornell-Dubilier Capacitors



"BLUE BEAVER" TUBULAR ELECTROLYTICS

"Blue Beaver" tubular electrolytic capacitors are specifically designed for service replacement applications. All are sealed in impregnated cardboard outer sleeves. Single-section Type BR has solid, tinned-copper leads with negative terminal grounded to can. Type BBR is a miniature version of Type BR, for limited-space applications. Type BRHV is similar to Type BR, but is designed

for filter applications in higher-voltage power supplies. Surge voltage of Type BRHV is 150 volts above working voltage. Types BBRD, BBR1, and BBRQ have 7" flexible vinyl covered leads with color coded positive and common negative. All "Blue Beavers" are rated for operation up to 85°C, except 500-volt types, which are for up to 65°C. Av. shpg. wt., 4 oz. See Page 159 for mtg. hdwe.

TYPE BR SINGLE SECTION

Radio and TV replacement units. Ideal for bypass, filter, etc. Hermetically sealed.

StockNo.	Type	Mfd	W.V.	Size	NET
19 L 285	500-6	500	6	1 1/2 x 1 1/2	.91
19 L 286	1000-6	1000	6	1 1/2 x 1 1/2	1.13
19 L 287	2000-6	2000	6	1 1/2 x 1 1/2	1.35
19 L 272	2501	250	15	1 1/2 x 1 1/2	.91
19 L 273	5001	500	15	1 1/2 x 2 1/2	1.03
19 L 274	10001	1000	15	1 1/2 x 2 1/2	1.35
19 L 284	20001	2000	15	1 1/2 x 3 1/2	1.88
19 L 270	2502	250	25	1 1/2 x 1 1/2	1.00
19 L 271	5002	500	25	1 1/2 x 2 1/2	1.35
19 L 147	1005	100	50	1 1/2 x 2 1/2	.82
19 L 148	1505	150	50	1 1/2 x 2 1/2	.91
19 L 149	2505	250	50	1 1/2 x 2 1/2	1.03
19 L 150	5005	500	50	1 1/2 x 2 1/2	1.35
19 L 145	2515	25	150	1 1/2 x 1 1/2	.73
19 L 145A	3015	30	150	1 1/2 x 1 1/2	.76
19 L 146	4015	40	150	1 1/2 x 1 1/2	.79
19 L 147	5015	50	150	1 1/2 x 1 1/2	.82
19 L 146	6015	60	150	1 1/2 x 2 1/2	.88
19 L 146	8015	80	150	1 1/2 x 2 1/2	.94
19 L 146	10015	100	150	1 1/2 x 2 1/2	1.03
19 L 146	15015	150	150	1 1/2 x 3 1/2	1.12
19 L 146	20015	200	150	1 1/2 x 3 1/2	1.35
19 L 146	25015	250	150	1 1/2 x 3 1/2	1.57
19 L 146	30015	300	150	1 1/2 x 3 1/2	1.80
19 L 146	40015	400	150	1 1/2 x 3 1/2	2.02
19 L 143	5025	50	250	1 1/2 x 2 1/2	1.00
19 L 144	6025	60	250	1 1/2 x 2 1/2	1.06
19 L 144	8025	80	250	1 1/2 x 2 1/2	1.12
19 L 144	10025	100	250	1 1/2 x 2 1/2	1.18
19 L 144	1235	12	350	1 1/2 x 1 1/2	.76
19 L 144	1635	16	350	1 1/2 x 1 1/2	.82
19 L 144	2035	20	350	1 1/2 x 1 1/2	.85
19 L 144	2535	25	350	1 1/2 x 2 1/2	1.07
19 L 144	3035	30	350	1 1/2 x 2 1/2	1.29
19 L 141	5035	50	350	1 1/2 x 2 1/2	1.51
19 L 141	145	1	450	1 1/2 x 1 1/2	.65
19 L 141	245	2	450	1 1/2 x 1 1/2	.68
19 L 141	445	4	450	1 1/2 x 1 1/2	.68
19 L 141	845	8	450	1 1/2 x 1 1/2	.73
19 L 141	1245	10	450	1 1/2 x 1 1/2	.76
19 L 141	1645	12	450	1 1/2 x 1 1/2	.79
19 L 141	2045	16	450	1 1/2 x 2 1/2	.82
19 L 141	2545	20	450	1 1/2 x 2 1/2	.91
19 L 141	3045	25	450	1 1/2 x 2 1/2	1.00
19 L 141	4045	30	450	1 1/2 x 2 1/2	1.06
19 L 141	6045	60	450	1 1/2 x 2 1/2	1.38
19 L 141	8045	80	450	1 1/2 x 2 1/2	1.65
19 L 141	10045	100	450	1 1/2 x 2 1/2	1.92
19 L 141	1250	12	500	1 1/2 x 1 1/2	.76
19 L 141	1650	16	500	1 1/2 x 1 1/2	.82
19 L 141	2050	20	500	1 1/2 x 2 1/2	.88
19 L 141	3050	30	500	1 1/2 x 2 1/2	1.03

TYPE BBR SINGLE SECTION

Miniaturized units for hearing aids, transistor radios, low-voltage circuits, etc. Hermetically sealed. Grounded negative lead.

StockNo.	Type	Mfd	W.V.	Size	NET
19 L 200	25-3	25	3	3/8 x 1 1/2	.50
19 L 201	50-3	50	3	3/8 x 1 1/2	.56
19 L 202	5-6	5	6	3/8 x 1 1/2	.47
19 L 203	25-6	25	6	3/8 x 1 1/2	.50
19 L 204	50-6	50	6	3/8 x 1 1/2	.56
19 L 205	100-6	100	6	3/8 x 1 1/2	.71
19 L 206	250-6	250	6	3/8 x 1 1/2	.79
19 L 207	100-15	100	15	3/8 x 1 1/2	.73
19 L 208	250-15	250	15	3/8 x 1 1/2	.82
19 L 217	20-25	20	25	3/8 x 1 1/2	.59
19 L 218	25-25	25	25	3/8 x 1 1/2	.59
19 L 219	50-25	50	25	3/8 x 1 1/2	.59
19 L 208	100-25	100	25	3/8 x 1 1/2	.79
19 L 209	1-50	1	50	3/8 x 1 1/2	.53
19 L 210	2-50	2	50	3/8 x 1 1/2	.53
19 L 211	4-50	4	50	3/8 x 1 1/2	.59
19 L 222	5-50	5	50	3/8 x 1 1/2	.59
19 L 223	10-50	10	50	3/8 x 1 1/2	.59
19 L 224	25-50	25	50	3/8 x 1 1/2	.65
19 L 212	10-90	10	90	3/8 x 1 1/2	.65
19 L 213	16-90	16	90	3/8 x 1 1/2	.65
19 L 214	4-150	4	150	3/8 x 1 1/2	.59
19 L 249	8-150	8	150	3/8 x 1 1/2	.62
19 L 226	10-150	10	150	3/8 x 1 1/2	.62
19 L 247	12-150	12	150	3/8 x 1 1/2	.65
19 L 248	16-150	16	150	3/8 x 1 1/2	.68
19 L 225	20-150	20	150	3/8 x 1 1/2	.71
19 L 227	4-250	4	250	3/8 x 1 1/2	.59
19 L 228	8-250	8	250	3/8 x 1 1/2	.68
19 L 229	12-250	12	250	3/8 x 1 1/2	.73

TYPE BBRD DUAL SECTION

Sealed in aluminum tube; wax-impregnated cardboard outer sleeve. Common negative lead.

StockNo.	Type	Mfd	W.V.	Size	NET
19 L 220	2202	20-20	25	1 1/2 x 1 1/2	.82
19 L 250	115	10-10	50	1 1/2 x 1 1/2	.82
19 L 251	2115	20-10	150	1 1/2 x 1 1/2	.91
19 L 252	2215	20-20	150	1 1/2 x 1 1/2	.97
19 L 253	3215	30-20	150	1 1/2 x 1 1/2	1.00
19 L 254	3315	30-30	150	1 1/2 x 1 1/2	1.06
19 L 255	4215	40-20	150	1 1/2 x 1 1/2	1.03
19 L 256	4315	40-30	150	1 1/2 x 2 1/2	1.06
19 L 257	4415	40-40	150	1 1/2 x 2 1/2	1.09
19 L 258	5315	50-30	150	1 1/2 x 2 1/2	1.15
19 L 259	5515	50-50	150	1 1/2 x 2 1/2	1.23
19 L 260	8415	80-40	150	1 1/2 x 2 1/2	1.32
19 L 609	0183.7	100-50	150	1 x 3	1.76
19 L 288	101015	100-100	150	1 1/2 x 3 1/2	1.88
19 L 610	0196	200-5	150	1 x 3 1/2	1.56
19 L 289	8025	8-8	250	1 1/2 x 1 1/2	.94
19 L 261	16825	16-8	250	1 1/2 x 2 1/2	1.00
19 L 262	16025	16-16	250	1 1/2 x 2 1/2	1.06
19 L 263	22025	22-20	250	1 1/2 x 1 1/2	1.09
19 L 296	3325	30-30	250	1 1/2 x 2 1/2	1.32
19 L 264	7V225	75-20	250	1 1/2 x 3 1/2	1.53
19 L 612	0286	80-10	250	1 x 3	1.50
19 L 614	0282	150-100	300	1 1/2 x 3 1/2	3.09
19 L 265	8045	8-8	450	1 1/2 x 1 1/2	1.00
19 L 266	16845	16-8	450	1 1/2 x 2 1/2	1.18
19 L 267	16045	16-16	450	1 1/2 x 2 1/2	1.32
19 L 268	2245	20-20	450	1 1/2 x 3 1/2	1.47
19 L 297	3345	30-30	450	1 1/2 x 3 1/2	1.76
19 L 221	4445	40-40	450	1 1/2 x 4 1/2	2.00
19 L 616	0646	20, 100	450, 25	1 x 2 1/2	1.29
19 L 617	0852	40, 50	450, 50	1 x 3 1/2	1.76
19 L 618	0722	80, 100	450, 50	1 1/2 x 3 1/2	2.20
19 L 619	0707	30, 50	450, 200	1 1/2 x 2 1/2	1.68

TYPE BBR1 TRIPLE SECTION

StockNo.	Type	Mfd	W.V.	Size	NET
19 L 230	22215	20-20-20	150	1 1/2 x 1 1/2	1.29
19 L 231	32V215	30-20-20	150	1 1/2 x 2 1/2	1.32
19 L 232	33315	30-30-30	150	1 1/2 x 2 1/2	1.38
19 L 233	42215	40-20-20	150	1 1/2 x 1 1/2	1.32
19 L 234	43215	40-30-20	150	1 1/2 x 2 1/2	1.38
19 L 235	44215	40-40-20	150	1 1/2 x 2 1/2	1.38
19 L 236	44415	40-40-40	150	1 1/2 x 2 1/2	1.44
19 L 238	84215	80-40-20	150	1 1/2 x 3 1/2	1.62
19 L 620	0126.5	150-150-150	150	1 1/2 x 4 1/2	2.79
19 L 237	2215	20-20-20	150, 25	1 1/2 x 1 1/2	1.21
19 L 238	3315	30-30-20	150, 25	1 1/2 x 2 1/2	1.29
19 L 239	4215	40-20-20	150, 25	1 1/2 x 1 1/2	1.26
19 L 240	4315	40-30-20	150, 25	1 1/2 x 2 1/2	1.29
19 L 241	4415	40-40-20	150, 25	1 1/2 x 1 1/2	1.23
19 L 242	4415x25	40-40-25	150, 10	1 1/2 x 2 1/2	1.59
19 L 243	5315	50-30-20	150, 25	1 1/2 x 1 1/2	1.38
19 L 244	5515	50-50-20	150, 25	1 1/2 x 2 1/2	1.47
19 L 299	5315x25	50-30-25	150, 25	1 1/2 x 3 1/2	1.82
19 L 245	8415	80-40-20	150, 25	1 1/2 x 3 1/2	1.62
19 L 246	3215x10	30-20-100	150, 25	1 1/2 x 2 1/2	1.38
19 L 275	6315x20	60-30-200	150, 10	1 1/2 x 2 1/2	1.50
19 L 276	5315x10	50-30-100	150, 25	1 1/2 x 2 1/2	1.44
19 L 277	8215x10	80-30-100	150, 25	1 1/2 x 2 1/2	1.62
19 L 278	2225	20-20-20	250, 25	1 1/2 x 2 1/2	1.32
19 L 279	4225	40-20-20	250, 25	1 1/2 x 2 1/2	1.30
19 L 280	4425	40-40-20	250, 25	1 1/2 x 2 1/2	1.71
19 L 281	7425	70-40-20	250, 25	1 1/2 x 3 1/2	2.03
19 L 282	0878	140-5-200	350, 20	1 1/2 x 4 1/2	3.94
19 L 382	16745	16-16-16	450, 25	1 1/2 x 3 1/2	1.82
19 L 283	2245	20-20-10	450, 25	1 1/2 x 3 1/2	1.71
19 L 626	1411	30, 50, 100	450, 150, 25	1 1/2 x 3	2.18
19 L 627	1238	5, 80-40	450, 400	1 1/2 x 3 1/2	2.68

TYPE BBRQ QUADRUPLE SECTION

StockNo.	Type	Mfd	W.V.	Size	NET
19 L 292	53215	50-30-20, 150	20, 25	1 1/2 x 2 1/2	1.79
19 L 293	44315	40-40-30, 150	20, 25	1 1/2 x 2 1/2	1.76
19 L 294	5515	60-50-50, 150	20, 25	1 1/2 x 3 1/2	2.03
19 L 290	33215	30-30-20, 20	150, 25	1 1/2 x 2 1/2	1.71
19 L 628	0789.4	140-5-200, 300	150, 15	1 1/2 x 4 1/2	3.07
19 L 630	0789.5	80-60-40, 350	300, 150	1 1/2 x 3	3.43
19 L 631	0925	140, 5-200, 350	300, 200	1 1/2 x 4 1/2	4.50
19 L 633	0125	20-20-20, 10	450, 10	1 1/2 x 3	2.50
19 L 634	0170.5	40-20-20, 10	450, 10	1 1/2 x 3 1/2	2.76
19 L 635	0174	40-40-20, 20	450, 10	1 1/2 x 4 1/2	3.20
19 L 295	2245x5	20-20-20, 450	25, 25	1 1/2 x 3 1/2	2.38
19 L 636	0925.5</				

Cornell-Dubilier Capacitors

TYPES UP AND UPE TWIST-PRONG ELECTROLYTICS

Highly efficient, electrolytic capacitors in hermetically sealed, seamless aluminum cans. Ideal for original equipment use as well as for exact replacements in radio, TV, audio and other electronic equipment. Types with DC working voltage up to 450 volts have a

temperature range to +85°C; 500-volt types have range to +65°C. All are UPE types, except *UPE types which are designed for selenium rectifier circuits. Solder lugs. Av. shpg. wt., 5 oz.



SINGLE SECTION

Stock No.	New Type	Old Type	Mfd./WVDC	Size	NET
14 L 426	A0520	A052	10/500V	1x2"	.94
14 L 427	A0530	A053	30/500V	1x2 1/2"	1.07
14 L 511	A0551*	XA013	30/500V	1x3"	1.18
14 L 428	A0560	A056	40/500V	1 3/8x3 3/8"	1.88
19 L 384	A0430	A043	10/450V	1x2"	.91
19 L 387	A0460	A046	20/450V	1x2"	1.06
14 L 322	A0470	A047	30/450V	1x2 1/2"	1.15
14 L 408	A0480	A048	40/450V	1x3"	1.21
19 L 388	A0490	A049	50/450V	1 3/8x3 3/8"	1.38
14 L 323	A0510	A051	80/450V	1 3/8x3"	1.79
14 L 665	A0512	.....	100/450V	1 3/8x3"	2.03
14 L 666	A0514*	.....	125/450V	1 3/8x4 1/8"	2.21
14 L 667	XA0401*	XA011	80/450V	1 3/8x2 1/2"	1.64
14 L 668	XA0411*	XA012	125/350V	1 3/8x3"	2.15
19 L 669	XA0331*	XA010	80/300V	1x3"	1.71
19 L 460	A0340	A034	100/300V	1 3/8x3"	1.50
18 L 679	XA0355*	.....	150/300V	1 3/8x3"	2.06
18 L 680	XA0291*	XA008	40/250V	1x2"	1.06
18 L 681	XA0315*	.....	150/250V	1 3/8x2 1/2"	1.82
18 L 682	XA0265.3*	.....	120/200V	1 3/8x2"	1.65
14 L 400	A0200	A020	50/150V	1x2"	.97
14 L 677	XA0231*	XA002	80/150V	1x2"	1.09
14 L 678	XA0241*	XA003	100/150V	1x2 1/2"	1.18
14 L 383	A0250	A025	120/150V	1 3/8x2 1/2"	1.21
18 L 674	XA0261*	XA004	150/150V	1x3"	1.26
18 L 676	XA0263*	.....	205/150V	1 3/8x2 1/2"	1.65
19 L 381	A0140	A014	100/50V	3/4x2"	.97
19 L 382	A0160	A016	500/50V	1 3/8x2"	1.56
14 L 320	A0170	A017	1000/50V	1 3/8x3 3/8"	2.26
14 L 673	A0174	.....	1500/50V	1 3/8x4 1/8"	2.20
19 L 380	A0130	A013	1000/25V	1 3/8x2"	2.09
19 L 377	A0060	A006	1000/15V	1x2 1/2"	1.50
19 L 378	A0070	A007	2000/15V	1 3/8x2 1/2"	2.03
18 L 671	A0080	A008	3000/15V	1 3/8x3"	2.06
18 L 672	A0040	A004	2000/6V	1 3/8x2"	1.50

DUAL SECTION

Stock No.	New Type	Old Type	Mfd./WVDC	Size	NET
19 L 359	B0490	B049	10-10/500V	1x2 1/2"	1.15
14 L 486	B0500	B050	20-20/500V	1 3/8x2 1/2"	1.68
14 L 449	B0530	B053	40-40/500V	1 3/8x3 3/8"	2.53
19 L 360	B0540	B054	60-40/500V	1 3/8x3 3/8"	2.70
19 L 422	B0630	B063	10/450V; 20/25V	1x2"	1.00
14 L 420	B0370	B037	10-10/450V	1x2"	1.12
19 L 396	B0380	B038	15-15/450V	1x2 1/2"	1.32
14 L 448	B0390	B039	20-10/450V	1x2 1/2"	1.40
14 L 421	B0400	B040	20-20/450V	1x3"	1.50
14 L 326	B0410	B041	30-10/450V	1x3"	1.47
14 L 447	B0430	B043	30-30/450V	1 3/8x2 1/2"	1.79
14 L 514	B0440	B044	40-20/450V	1 3/8x2 1/2"	1.76
14 L 422	B0450	B045	40-40/450V	1 3/8x3"	2.03
19 L 357	B0470	B047	80-10/450V	1 3/8x3"	2.12
18 L 683	B0473	.....	80-20/450V	1 3/8x3 3/8"	2.29
19 L 358	B0480	B048	80-40/450V	1 3/8x3 3/8"	2.56
18 L 684	B0483	.....	100-40/450V	1 3/8x4 1/8"	2.85
14 L 421	B0290	B029	15-15/350V	1x2"	1.32
14 L 421	B0110	B031	30-30/350V	1x3"	1.33
18 L 685	B0326	.....	80-40/350V	1 3/8x3"	2.32
19 L 395	B0330	B033	80-80/350V	1 3/8x3 3/8"	2.76
18 L 686	B0332	.....	100-100/350V	1 3/8x4 1/8"	3.62
19 L 392	B0270	B027	80-80/300V	1 3/8x3"	2.38
14 L 687	B0608	.....	150/300V; 100/150V	1 3/8x3 3/8"	2.65
14 L 418	B0210	B021	20-20/250V	1x2"	1.12
18 L 688	XB0241*	XB011	40-40/250V	1x3"	1.47
19 L 391	B0250	B025	150-150/250V	1 3/8x4 1/8"	3.03
18 L 689	XB0252*	.....	200-200/250V	1 3/8x4 1/8"	3.59
18 L 690	XB0196*	.....	200-5/200V	1 3/8x2 1/2"	1.59
18 L 691	XB0091*	XB001	20-20/150V	1x2"	1.00

GENERAL-PURPOSE DISC CERAMIC CAPACITORS

Exceptionally small, lightweight, disc-type ceramic capacitors. An excellent choice for a wide variety of equipment and particularly suited for limited-space applications. Provide highly dependable performance in transmitters, receivers, amplifiers, test instruments, industrial electronic equipment, etc. Carefully engineered, and constructed to rigid standards to assure low inductance, minimized eddy current losses, and high stability. All types listed below are rated to operate over a temperature range from -55°C to 85°C and are rated at 1000 WVDC, except *600 WVDC. All have a guaranteed minimum capacity tolerance, except † ±20%, ‡ ±0.5 mmf. Av. shpg. wt., 3 oz.

TYPES BYA & BYB					TYPE L (Cont'd)				
No.	Type	Mmf	Size	E.A.	No.	Type	Mmf	Size	EACH
19 L 577	BYA10T5	320	3/32x5/32"	12c	19 L 559	L10047	47	3/32x5/32"	12c
19 L 578	BYA10T82	800	3/32x5/32"		19 L 560	L10055	50	3/32x5/32"	
19 L 707	BYA-6D1*	1000	3/32x5/32"		19 L 561	L10056	56	3/32x5/32"	
19 L 579	BYA10D1M†	1000	3/8x5/32"		19 L 562	L10T11	100	3/32x5/32"	
19 L 580	BYA10D15	1500	3/8x5/32"		19 L 563	L10T12	120	3/32x5/32"	
19 L 581	BYA10D2	2000	3/8x5/32"	19 L 564	L10T15	150	3/32x5/32"		
19 L 582	BYA10D3	3000	1/2x5/32"	19 L 565	L10T18	180	3/32x5/32"		
19 L 583	BYA10D4	4000	1/2x5/32"	19 L 566	L10T2	200	3/32x5/32"		
18 L 708	BYA-10D47M†	4700	1/2x5/32"	18 L 711	L10T22	220	3/32x5/32"		
19 L 584	BYA10D5	5000	3/8x5/32"	19 L 567	L10T25	250	3/32x5/32"		
18 L 709	BYA-10D68	6800	1/2x5/32"	19 L 568	L10T27	270	3/32x5/32"		
18 L 710	BYA-6S1*	10000	3/8x5/32"	19 L 569	L10T33	330	3/32x5/32"		
19 L 585	BYB6S2*	20000	7/8x5/32"	19 L 570	L10T39	390	3/32x5/32"		
19 L 586	.....	.....	.....	19 L 571	L10T47	470	3/8x5/32"
19 L 587	.....	.....	.....	19 L 572	L10T5	500	3/8x5/32"
19 L 573	L10T68	680	3/8x5/32"	19 L 573	L10T68	680	3/8x5/32"		
19 L 574	L10T82	820	1/2x5/32"	19 L 574	L10T82	820	1/2x5/32"		
19 L 575	L10D1	1000	1/2x5/32"	19 L 575	L10D1	1000	1/2x5/32"		
19 L 576	L10D15	1500	1/2x5/32"	19 L 576	L10D15	1500	1/2x5/32"		

DUAL SECTION (Cont'd)

Stock No.	New Type	Old Type	Mfd.	Size	NET
19 L 390	B0110	B0110	30-30/150V	1x2"	1.09
14 L 425	B0120	B012	40-40/150V	1x2"	1.06
18 L 692	XB0141*	XB002	40-40/150V	1x2"	1.12
14 L 425	B0150	B015	50-30/150V	1x2"	1.18
18 L 693	XB0161*	XB003	50-50/150V	1x2 1/2"	1.35
18 L 694	XB0181*	XB004	80-40/150V	1x2 1/2"	1.35
18 L 697	XB0188*	XB008	200-150/150V	1 3/8x3 3/8"	2.20
18 L 698	XB0189*	XB009	200-200/150V	1 3/8x3 3/8"	2.35
19 L 416	B0040	B0040	1000-1000/15V	1 3/8x2 1/2"	2.59

TRIPLE SECTION

Stock No.	New Type	Old Type	Mfd.	Size	NET
14 L 334	C0380	C038	10-10-10/500V	1x3"	1.59
19 L 455	C0390	C039	30-20-20/500V	1 3/8x3"	2.47
19 L 373	C0410	C041	40-40-10/500V	1 3/8x3 3/8"	2.97
19 L 399	C1150	C115	40-40-300V; 100/200V	1 3/8x3 3/8"	2.44
19 L 454	C0374	C156	40-30-30/475V	1 3/8x3 3/8"	3.03
14 L 432	C0240	C024	10-10-10/450V	1x2 1/2"	1.53
19 L 365	C0260	C026	20-10-10/450V	1x3"	1.73
14 L 487	C0270	C027	20-20-20/450V	1 3/8x2 1/2"	2.12
14 L 458	C0990	C099	20-20/450V; 20/25V	1x3"	1.79
19 L 366	C0280	C028	30-20-20/450V	1 3/8x3"	2.26
19 L 367	C0300	C030	30-30-30/450V	1 3/8x3"	2.56
19 L 370	C0330	C033	40-30-20/450V	1 3/8x3"	2.53
19 L 428	C1070	C107	40/40/450V; 20/25V	1 3/8x3"	2.32
19 L 371	C0350	C035	40-40-10/450V	1 3/8x3"	2.47
14 L 329	C0350	C035	40-40/450V	1 3/8x3 3/8"	2.88
19 L 338	C1090	C109	40-40/450V; 100/50V	1 3/8x3 3/8"	2.53
14 L 375	C0360	C036	60-20-20/450V	1 3/8x4 1/8"	3.18
19 L 376	C0370	C037	80-40-20/450V	1 3/8x4 1/8"	3.18
19 L 376	C0800	C080	20-20/350V; 20/25V	1x2 1/2"	1.65
19 L 426	C0840	C084	30-30/350V; 20/25V	1 3/8x2"	2.00
18 L 701	XC1209*	XC010	100/300V; 60/20/250V	1 3/8x4 1/8"	4.32
18 L 702	XC1212*	XC011	200/300V; 60/20/250V	1 3/8x5"	3.41
18 L 703	XC0071*	XC002	40-20-20/150V	1x2"	1.41
19 L 361	C0080	C008	40-30-10/150V	1x2"	1.47
18 L 704	XC0551*	XC008	40-40/150V; 20/25V	1x2"	1.41
14 L 434	C0090	C009	40-40-40/150V	1x2 1/2"	1.53
18 L 705	XC0105*	XC003	50-50-50/150V	1x3"	1.76
19 L 362	C0110	C011	60-40-20/150V	1x2 1/2"	1.69
19 L 362	C0113	.....	70-15-15/150V	1x2 1/2"	1.59
14 L 512	C0120	C012	80-40-20/150V	1x3"	1.71

QUADRUPLE SECTION

Stock No.	New Type	Old Type	Mfd.	Size	NET
14 L 450	D0090	D009	10-10-10-10/450V	1 3/8x2"	1.97
14 L 445	D0480	D048	10-10-10/450V; 20/25V	1 3/8x2"	1.85
19 L 435	D0810	D081	10-10/450V-60/200V	1 3/8x3"	2.26
19 L 341	D0120	D012	20-10-10-10/450V	1 3/8x2 1/2"	2.18
14 L 451	D0130	D013	20-20-20-20/450V	1 3/8x3"	2.76
19 L 437	D0520	D052	20-20-20/450V; 20/25V	1 3/8x2 1/2"	2.44
19 L 442	D0170	D017	40-20-10-10/450V	1 3/8x3"	2.62
19 L 433	D0640	D064	40-30-10/450V; 20/25V	1 3/8x3"	2.65
19 L 438	D0174	D121	40-40-20-20/450V	1 3/8x4 1/8"	3.26
19 L 439	D0176	D122	40-40-30-30/450V	1 3/8x4 1/8"	3.56
19 L 436	D0920	D092	40-40/450V; 30-30/350V	1 3/8x4 1/8"	3.47
19 L 429	D0020	D002	40-40-20/10/300V	1 3/8x2 1/2"	2.68
19 L 437	D0866	D109	100-10/300V; 200-30/150V	1 3/8x5"	3.47
19 L 431	D0230	D023	40-40-20/150V; 200/10V	1 3/8x2"	1.91
19 L 343	D0300	D030	60-40-20/150V; 200/10V	1 3/8x2"	2.06
19 L 344	D0330	D033	80-40-40/150V; 100/25V	1 3/8x2 1/2"	2.20

TYPE KR 600-VOLT SCREW-NECK ELECTROLYTICS

Compact, single-section electrolytic capacitors with screw-neck for one hole mounting. Etched-foil plates and aluminum can construction. Color-coded wire leads, 8" long. Av. shpg. wt., 6 oz.

Stock No.	Type	Mfd	WVDC	Size	NET
14 L 161	68C	8	600	1 3/8x4 3/8"	1.85
14 L 162	616C	16	600	1 3/8x4 3/8"	2.20

QC PLUG-IN ELECTROLYTICS

Cornell-Dubilier Capacitors



"CUB" PLASTIC TUBULAR CAPACITORS

For general replacement service; extremely durable and very compact. Have high insulation resistance, low power factor and exceptional capacitance stability. Molded in extra hard, non-inflammable bakelite; resistant to moisture, high temperature and shock. Excellent dielectric strength. Dry assembled and sealed after impregnation to insure long life. Extra strong copper-weld leads eliminate breakage during installation. Leads are solder sealed securely to the capacitor. 200 and 400-volt units are impregnated with special HT compound; 600-volt units and higher are oil impregnated. Temperature range: 200 and 400-volt units, -40 to +90° C.; 600 volt units and up, -55 to +100° C. *ST types in ceramic case. Av. shpg. wt., 4 oz.

200 VOLTS DC WORKING

Stock No.	Type	Mfd	Size	NET
19 L 000	2S2	.02	3/8x1"	15c
19 L 001	2S47	.047	1/2x1 1/2"	15c
19 L 002	2S5	.05	1/2x1 1/2"	15c
19 L 003	2P1	.10	1/2x1 1/2"	21c
19 L 004	2P15	.15	1/2x1 1/2"	21c
19 L 005	2P22	.22	1/2x1 1/2"	24c
19 L 006	2P25	.25	1/2x1 1/2"	24c
19 L 007	2P47	.47	1/2x1 1/2"	35c
19 L 008	2P5	.50	1/2x1 1/2"	35c
19 L 009	2W1	1.0	3/4x2 1/4"	53c

400 VOLTS DC WORKING

Stock No.	Type	Mfd	Size	NET
19 L 010	4S1	.01	3/8x1"	15c
19 L 011	4S2	.02	1/2x1 1/2"	15c
19 L 012	4S22	.022	1/2x1 1/2"	15c
19 L 013	4S47	.047	1/2x1 1/2"	18c
19 L 014	4S5	.05	1/2x1 1/2"	18c
19 L 015	4S68	.068	1/2x1 1/2"	21c
19 L 016	4D3	.003	1/2x1 1/2"	21c
19 L 017	4P15	.15	1/2x1 1/2"	21c
19 L 018	4P22	.22	1/2x1 1/2"	24c
19 L 019	4P25	.25	1/2x1 1/2"	24c
19 L 049	4P47	.47	3/4x2 1/4"	35c
19 L 020	4P5	.50	3/4x2 1/4"	35c
19 L 021	4W1*	1.0	1x2 1/2"	53c

600 VOLTS DC WORKING

Stock No.	Type	Mfd	Size	EACH
19 L 022	6T1	.001	3/8x1"	15c
19 L 023	6T25	.0025		
19 L 024	6T4	.004		
19 L 025	6T5	.005		
19 L 026	6D1	.001		
19 L 027	6D15	.0015		
19 L 028	6D2	.002	1/2x1"	15c
19 L 029	6D22	.0022		
19 L 030	6D3	.003		
19 L 031	6D33	.0033		
19 L 032	6D4	.004		
19 L 033	6D47	.0047		
19 L 034	6D5	.005	1/2x1 1/2"	18c
19 L 035	6D6	.006		
19 L 036	6D68	.0068		
19 L 037	6S1	.01		
19 L 038	6S15	.015		
19 L 039	6S2	.02		
19 L 040	6S22	.022	1/2x1 1/2"	21c
19 L 041	6S3	.03		
19 L 042	6S33	.033		
19 L 043	6S4	.04		
19 L 044	6S47	.047		
19 L 045	6S6	.06		
19 L 046	6S68	.068	1/2x1 1/2"	24c
19 L 047	6P1	.10		
19 L 104	6P2	.20		
19 L 105	6P22	.22		
19 L 046	6P25	.25		
19 L 047	6P5*	.50		

1000 VOLTS DC WORKING

Stock No.	Type	Mfd	Size	EACH
19 L 072	10T5	.0005	3/8x1"	29c
19 L 073	10D1	.001	3/8x1"	
19 L 074	10D15	.0015	3/8x1"	
19 L 078	10D2	.002	3/8x1"	
19 L 079	10D22	.0022	3/8x1"	
19 L 081	10D3	.003	3/8x1"	
19 L 082	10D4	.004	3/8x1 1/2"	29c
19 L 083	10D47	.047	1/2x1 1/2"	
19 L 084	10D5	.005	1/2x1 1/2"	
19 L 088	10D68	.0068	1/2x1 1/2"	
19 L 089	10S1	.01	1/2x1 1/2"	
19 L 090	10S15	.015	1/2x1 1/2"	
19 L 091	10S2	.02	1/2x1 1/2"	29c
19 L 092	10S22	.022	1/2x1 1/2"	
19 L 093	10S3	.03	1/2x1 1/2"	
19 L 094	10S35	.035	1/2x1 1/2"	
19 L 095	10S47	.047	1/2x1 1/2"	
19 L 096	10S5	.05	1/2x1 1/2"	
19 L 097	10S68	.068	1/2x1 1/2"	29c
19 L 098	10P1	.10	3/4x2 1/4"	35c
				44c

1600 VOLTS DC WORKING

Stock No.	Type	Mfd	Size	EACH
19 L 050	16T5	.0005	1/2x1 1/2"	38c
19 L 051	16D1	.001		
19 L 052	16D15	.0015		
19 L 052	16D2	.002		
19 L 054	16D22	.0022		
19 L 055	16D3	.003		
19 L 056	16D33	.0033	3/8x1 1/2"	38c
19 L 057	16D4	.004		
19 L 058	16D47	.0047		
19 L 059	16D5	.005		
19 L 060	16D6	.006		
19 L 061	16D68	.0068		
19 L 062	16D7	.007	1/2x1 1/2"	41c
19 L 063	16D75	.0075		
19 L 064	16D8	.008		
19 L 065	16S1	.01		
19 L 066	16S15	.015		
19 L 067	16S2	.02		
19 L 068	16S22	.022	1/2x1 1/2"	41c
19 L 069	16S3	.03		
19 L 070	16S4	.04		
19 L 071	16S5	.05		
19 L 072	16S6	.06		
19 L 073	16S7	.07		

6000 VOLTS DC WORKING

Stock No.	Type	Mfd	Size	NET
19 L 075	60T5	.0005	3/8x1 1/2"	79c
19 L 076	60D1	.001	3/8x1 1/2"	
19 L 077	60D5	.005	1/2x1 1/2"	

10,000 VOLTS DC WORKING

Stock No.	Type	Mfd	Size	NET
19 L 080	100T5	.0005	1/2x1 1/2"	88c

12,500 VOLTS DC WORKING

Stock No.	Type	Mfd	Size	NET
19 L 085	125T25	.0025	1/2x1 1/2"	1.00

PM MOLDED MYLAR TUBULARS



A wide selection of high-quality, molded tubular capacitors designed to withstand severe operating conditions and high temperature applications. Feature mylar polyester film dielectric material. Temperature range is -55° to +85° C.—derate 90% of rated voltage at 100° C and derate 50% at 130° C.

Non-inductive construction insures low resistance connections and low RF impedance. Rugged thermostat assembly firmly secures leads and sections making it possible to withstand extremes of handling, shock, vibration and soldering temperatures. Moisture resistance exceeds JAN-C-91 or MIL-C-25A requirements. Av. shpg. wt., 3 oz.

200 VOLTS DC WORKING

Stock No.	Type	Mfd.	Size	NET
14 L 273	PM2S2	.02	3/8x1 1/2"	15c
14 L 274	PM2S5	.05	1/2x1 1/2"	15c
14 L 275	PM2P1	.10	1/2x1 1/2"	21c
14 L 276	PM2P22	.22	1/2x1 1/2"	24c
14 L 277	PM2P25	.25	1/2x1 1/2"	26c
14 L 278	PM2P47	.47	1/2x1 1/2"	35c
14 L 279	PM2P5	.50	1/2x1 1/2"	35c
14 L 286	PM2W1	1.00	3/4x2 1/4"	56c

400 VOLTS DC WORKING

Stock No.	Type	Mfd.	Size	NET
14 L 293	PM4S1	.01	3/8x1"	15c
14 L 294	PM4S2	.02	1/2x1 1/2"	15c
14 L 295	PM4S5	.05	1/2x1 1/2"	18c
14 L 296	PM4P1	.10	1/2x1 1/2"	21c
14 L 297	PM4P22	.22	1/2x1 1/2"	29c
14 L 298	PM4P25	.25	1/2x1 1/2"	32c
14 L 299	PM4P47	.47	3/4x2 1/4"	47c
14 L 243	PM4P5	.50	3/4x2 1/4"	50c
14 L 244	PM4W1	1.00	1x2 1/2"	85c

600 VOLTS DC WORKING

Stock No.	Type	Mfd	Size	NET
14 L 158	PM6T5	.0005	3/8x1"	15c
14 L 159	PM6D1	.0010	3/8x1"	15c
14 L 167	PM6D22	.0022	3/8x1"	15c
14 L 169	PM6D47	.0047	3/8x1 1/2"	15c
14 L 178	PM6S1	.010	1/2x1 1/2"	18c
14 L 179	PM6S15	.015	1/2x1 1/2"	18c
14 L 180	PM6S22	.022	1/2x1 1/2"	18c
14 L 182	PM6S47	.047	1/2x1 1/2"	24c
14 L 183	PM6S68	.068	1/2x1 1/2"	24c
14 L 184	PM6P1	.10	3/8x1 1/2"	26c
14 L 197	PM6P22	.22	3/4x2 1/4"	38c
14 L 198	PM6P33	.33	1 x 2 1/2"	53c
14 L 199	PM6P47	.47	1 x 2 1/2"	68c

PM Capacitor Kit. In handy plastic case with 10 each .001, .005, .02, .047, .10; 12 each .01, .05; and 6—.002. All are rated at 600 WDC. Shpg. wt., 3 lbs. 14 L 287. NET..... 15.52

INDUSTRIAL CAPACITORS

TYPE TAN "SUB-MINIATURE" TANTALUM FOIL ELECTROLYTIC CAPACITORS



Remarkably small sub-miniature size Tantalum electrolytic capacitors. Especially well suited for applications in transistor circuits and other uses demanding compact physical size. 3/16" long; 3/16" diameter. From -55° C. to +85° C. Standard capacitance tolerance is ±20% (except *maximum capacitance for that voltage). Power factor and frequency characteristics are excellent even at their lowest rated operating temperature. Leakage current; Max., .07 microamps per mfd per volt at room temperature. Terminals are solid, tinned-wire leads 1 1/2" long. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Mfd	Size	Volts DC	NET EACH
19 L 300	TAN 76	1.0	3	3	1.62
19 L 301	TAN 68	2.0	3	3	
19 L 302	*TAN 77	8.0	3	3	
19 L 303	TAN 65	4.0	4	4	
19 L 304	TAN 60A	1.0	6	6	1.62
19 L 305	*TAN 78	4.0	6	6	
19 L 306	TAN 69	0.5	10	10	
19 L 307	TAN 56A	1.0	10	10	
19 L 308	TAN 58A	2.0	10	10	1.62
19 L 309	*TAN 79	3.0	10	10	
19 L 310	*TAN 59A	2.0	15	15	
19 L 311	TAN 70	0.25	20	20	
19 L 312	*TAN 80	1.75	25	25	1.62
19 L 313	*TAN 81	1.5	30	30	
19 L 314	TAN 71	0.1	40	40	
19 L 315	*TAN 82	1.0	40	40	
19 L 316	*TAN 83	0.3	50	50	1.62
19 L 317	*TAN 84	0.2	150	150	



FB HIGH-CAPACITY LOW-VOLTAGE TYPES

Highly dependable capacitors hermetically sealed in aluminum cans with wax-impregnated insulating sleeves. Ruggedly built for long life and dependable service. Temperature range up to 85 degrees Centigrade. Tinned solder lug connections. Av. shpg. wt., 6 oz.

Stock No.	Mfr's Type	Mfd	Volts DC	Size	NET EACH
19 L 320	FB 5005	500	50	1 3/4x3 1/4"	2.29
19 L 321	FB 5010	1000	50	1 3/4x4 1/4"	4.12
19 L 322	FB 5020	2000	50	1 3/4x4 1/4"	5.35
19 L 323	FB 5040	4000	50	2 1/4x4 1/4"	7.35
19 L 355	FB 2510	1000	25	1 3/8x3 1/2"	2.82
19 L 356	FB 2520	2000	25	1 3/8x4 1/2"	3.38
19 L 318	FB 2540	4000	25	2x4 1/2"	5.59
19 L 319	FB 2550	5000	25	2 1/2x4 1/2"	6.47
19 L 323	FB 1520	2000	15	1 3/8x3 1/2"	2.76
19 L 354	FB 1560	6000	15	2x4 1/2"	5.89



TYPE MP "PUP" METAL END-CAP CARDBOARD TUBULARS

Self-healing, metallized cardboard tubulars. Lightweight, compact, and made to last. Wax-impregnated and dip-sealed against humidity. Bare wire leads firmly anchored in metal end-caps. Temperature range: -40° to +60° C. Extended foil construction; non-inductively wound. High insulation resistance, low power factor and low capacity change. Tolerance, ±20%. Av. shpg. wt., 2 oz.

200 VOLTS DC WORKING

Stock No.	Mfr's Type	Mfd	Size	1-24, EACH
14 L 928	2S5	.05	3/8x3/8"	.46
14 L 929	2P1	.10	3/8x3/8"	.43
14 L 930	2P25	.25	1/2x3/8"	.67
14 L 931	2P5	.5	1/2x1 1/2"	.78
14 L 932	2W1	1.0	3/8x1 1/2"	1.05
14 L 924	2W2	2.0	3/8x1 1/2"	1.42

600 VOLTS DC WORKING

Stock No.	Mfr's Type	Mfd	Size	1-24, EACH
14 L 942	6S1	.01	3/8x3/8"	.44
14 L 946	6P1	.1	1/2x1 1/2"	.50
14 L 947	6P25	.25	3/8x1 1/2"	.78
14 L 948	6P5	.5	2 3/8x1 3/8"	1.10
14 L 949	6W1	1.0	2 3/8x2 1/2"	1.40

Industrial Users: Allied can make immediate shipment on C-D Type MP capacitors at OEM prices in quantities of 25-49 or 50-99. Contact our Industrial Division.

Cornell-Dubilier Industrial Capacitors



MOLDED MICA CAPACITORS

Molded units with India ruby mica dielectric; special wax-treated stack, brown bakelite case. Designed for wide range of applications. Individually tested for accuracy. Tinned brass wire leads. Values are $\pm 20\%$. Rated at 500 WVDC, 1000 v. DC test, except *300 WVDC, 600 v. DC test. Shpg. wt., 2 oz.

TYPE 5W

Size, $\frac{5}{16} \times \frac{1}{4} \times \frac{3}{16}$ " With $1\frac{1}{4}$ " tinned leads.

No.	Type	Mfd	Size	NET
14 L 111	5W5V5	.000005		
14 L 112	5W5O1	.00001		
14 L 113	5W5O2	.00002		
14 L 100	5W5O25	.000025		
14 L 101	5W5O3	.00003		
14 L 102	5W5O4	.00004		
14 L 103	5W5O5	.00005		
14 L 104	5W5O7	.00007		
14 L 104	5W5T1	.0001		
14 L 105	5W5T15	.00015		
14 L 106	5W5T2	.0002		
14 L 107	5W5T25	.00025		
14 L 110	5W5T3	.0003		
14 L 108	5W5T4	.0004		
14 L 109	5W5T5	.0005		

TYPE 1W

Size, $\frac{1}{16}$ " square x $\frac{1}{4}$ ". With $1\frac{1}{4}$ " tinned leads.

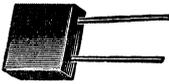
No.	Type	Mfd	Size	NET
14 L 131	1W5T6	.0006		
14 L 132	1W5T7	.0007		
14 L 120	1W5T8	.0008		
14 L 136	1W5T82	.00082		
14 L 133	1W5T9	.0009		
14 L 121	1W5D1	.0015		
14 L 122	1W5D15	.0015		
14 L 123	1W5D2	.002		
14 L 124	1W5D25	.0025		
14 L 125	1W5D3	.003		
14 L 126	1W5D4	.004		
14 L 127	1W5D5	.005		

TYPE 1D

Size, $\frac{1}{16}$ " square x $\frac{3}{16}$ ". With $1\frac{1}{4}$ " tinned leads.

No.	Type	Mfd	Size	NET
14 L 128	1D5D6	.006		
14 L 129	1D3D8*	.008		
14 L 139	1D3D82*	.0082		
14 L 130	1D3S1*	.01		

"SUPER MICADON" ENCAPSULATED MOLDED MIDGET MICAS



Latest design "Super Micadon" midget mica capacitors. Hermetically sealed construction. Highly stable over temperature range from -55° to $+130^\circ$ C. Ideal for printed circuits. Tolerance: $\pm 5\%$. All are rated 500 WVDC.

TYPES 1A AND 1AD

Size: Type 1A, $\frac{3}{16}$ " square x $\frac{3}{16}$ "; Type 1AD, $\frac{3}{16}$ " square x $\frac{1}{16}$ ". Tolerance $\pm 5\%$. Shpg. wt., 2 oz.

No.	Type	Mfd	NET
14 L 998	1A5D39	.0039	1.27
14 L 979	1A5D51	.0051	1.32
14 L 980	1A5D68	.0068	1.47
14 L 981	1A5D82	.0082	1.47
14 L 982	1A5S1	.01	1.47
14 L 983	1A5S15	.015	1.79
14 L 984	1A5S2	.02	2.09

TYPE 5A

Size, $\frac{1}{16}$ " square x $\frac{1}{16}$ " x $\frac{1}{16}$ ". Tolerance $\pm 5\%$ or 1 mfd whichever is greater. Shpg. wt., 2 oz.

No.	Type	Mfd	NET
14 L 995	5A5D15	.0015	.79
14 L 996	5A5D2	.002	.79
14 L 997	5A5D3	.003	1.21

INDUSTRIAL BUYERS ATTENTION!

In addition to maintaining the most complete stock of electronic components in the world, Allied can supply industrial quantities of any electronic item you may need. Write for information on Allied's quantity price quotations and delivery schedules. Address your inquiries to:

Industrial Division,
ALLIED RADIO CORPORATION
100 N. Western Avenue
Chicago 80, Illinois

DYKANOL TRANSMITTING CAPACITORS TYPE TJU-TJL HERMETICALLY SEALED

For power supply filter applications. Hermetically sealed steel containers; dielectric impervious to heat. *Type TJU, all others are Type TJL. Type TJU with universal mounting strap; TJL with mounting foot brackets. Av. wt., 5 lbs. Write Allied's Industrial Division for prices on quantities of 10 or more.



600 VOLTS DC WORKING

No.	Type	Mfd	Size	NET
73 L 604	6005	.5	$2\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ "	2.51
73 L 600	6010	1	$2\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ "	2.68
73 L 601	6020	2	$2\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ "	3.20
73 L 602	6040	4	$3\frac{3}{8} \times 2\frac{1}{2} \times 1\frac{1}{2}$ "	4.32
73 L 664	6050	5	$4\frac{3}{4} \times 1\frac{1}{2} \times 1\frac{1}{2}$ "	4.69
73 L 687	6060	6	$4\frac{5}{8} \times 2\frac{1}{2} \times 1\frac{1}{2}$ "	5.05
73 L 603	6080	8	$3\frac{1}{2} \times 3\frac{3}{4} \times 1\frac{1}{2}$ "	6.18
73 L 650	6100	10	$4\frac{5}{8} \times 3\frac{3}{4} \times 1\frac{1}{2}$ "	6.64

1000 VOLTS DC WORKING

No.	Type	Mfd	Size	NET
73 L 609	10001	.1	$2\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ "	2.25
73 L 613	100025	.25	$2\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ "	2.60
73 L 614	10005	.5	$2\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ "	2.67
73 L 605	10010	1	$2\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ "	2.88
73 L 606	10020	2	$4\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ "	3.61
73 L 607	10040	4	$4\frac{5}{8} \times 2\frac{1}{2} \times 1\frac{1}{2}$ "	4.84
73 L 608	10080	8	$3\frac{3}{4} \times 3\frac{3}{4} \times 1\frac{1}{2}$ "	6.92
73 L 651	10040	4	$4\frac{5}{8} \times 2\frac{1}{2} \times 1\frac{1}{2}$ "	7.93
73 L 665	10150	15	$4\frac{3}{4} \times 3\frac{3}{4} \times 2\frac{1}{2}$ "	10.82

1500 DC VOLTS WORKING

No.	Type	Mfd	Size	NET
73 L 610	15010	1	$4\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ "	3.43
73 L 611	15020	2	$4\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{1}{2}$ "	4.68
73 L 612	15040	4	$4\frac{5}{8} \times 2\frac{1}{2} \times 1\frac{1}{2}$ "	6.34
73 L 652	15100*	10	$4\frac{3}{4} \times 3\frac{3}{4} \times 2\frac{1}{2}$ "	11.47

TYPE DYR PAPER CAPACITORS

Non-inductively wound bypass conductors—specially designed to operate efficiently in RF and AF bypass, AF coupling and AC circuits even under severe heat and humidity conditions. Meet "F" characteristics of JAN-C-5. Ideal for aircraft, submarine, marine and tropical applications. Metal shell. Tol., $\pm 10\%$. 600 WVDC, except *1000 WVDC. Av. shpg. wt., 6 oz. Write our Industrial Division for prices on quantities of 10-24, 25-49 and 50-99.

No.	Type	Mfd	Size	NET
14 L 620	6005	.05	$1\frac{1}{2} \times 1 \times \frac{3}{4}$ "	1.69
14 L 621	6010	.1	$1\frac{1}{2} \times 1 \times \frac{3}{4}$ "	1.73
14 L 622	6025	.25	$1\frac{1}{2} \times 1 \times \frac{3}{4}$ "	1.81
14 L 623	6050	.5	$1\frac{1}{2} \times 1 \times \frac{3}{4}$ "	1.93
14 L 624	6100	1.0	$2\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{8}$ "	2.20
14 L 625	6200	2.0	$2\frac{1}{2} \times 1\frac{1}{2}$ "	2.94
14 L 626	60055	.05-.05	$1\frac{1}{2} \times 1 \times \frac{3}{4}$ "	2.15
14 L 627	6011	-1.1	$1\frac{1}{2} \times 1 \times \frac{3}{4}$ "	2.18
14 L 628	6022X	.25-.25	$1\frac{1}{2} \times 1 \times \frac{3}{4}$ "	2.20
14 L 629	6055	-5.5	$2\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{8}$ "	2.53

2000 VOLTS DC WORKING

No.	Type	Mfd	Size	NET
73 L 618	20001	1	$2\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ "	3.71
73 L 619	20005	.5	$2\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ "	4.14
73 L 615	20010	1	$3\frac{3}{8} \times 2\frac{1}{2} \times 1\frac{1}{2}$ "	4.64
73 L 616	20020	2	$4\frac{3}{8} \times 3\frac{1}{4} \times 1\frac{1}{2}$ "	5.73
73 L 617	20040	4	$3\frac{1}{2} \times 3\frac{3}{4} \times 2\frac{1}{2}$ "	8.00
73 L 689	20050	5	$4\frac{3}{8} \times 3\frac{3}{4} \times 2\frac{1}{2}$ "	9.07
73 L 690	20080*	8	$4\frac{3}{4} \times 3\frac{3}{4} \times 3\frac{1}{2}$ "	12.09

2500 VOLTS DC WORKING

No.	Type	Mfd	Size	NET
73 L 691	25005	.5	$3\frac{1}{2} \times 3\frac{3}{4} \times 1\frac{1}{2}$ "	5.47
73 L 620	25010	1	$3\frac{1}{2} \times 3\frac{3}{4} \times 1\frac{1}{2}$ "	6.59
73 L 654	25040*	4	$4\frac{3}{8} \times 3\frac{3}{4} \times 2\frac{1}{2}$ "	13.03

3000 VOLTS DC WORKING

No.	Type	Mfd	Size	NET
73 L 666	30001	1	$2\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{1}{2}$ "	6.96
73 L 667	300025	.25	$2\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{1}{2}$ "	7.40
73 L 668	30005	.5	$3\frac{1}{8} \times 2\frac{1}{2} \times 1\frac{1}{2}$ "	8.08
73 L 625	30010	1	$3\frac{1}{2} \times 3\frac{3}{4} \times 2\frac{1}{2}$ "	9.62
73 L 626	30020*	2	$4\frac{1}{8} \times 3\frac{3}{4} \times 3\frac{1}{2}$ "	12.75
73 L 656	30040*	4	$4\frac{3}{4} \times 3\frac{3}{4} \times 4\frac{3}{8}$ "	17.83

4000 VOLTS DC WORKING

No.	Type	Mfd	Size	NET
73 L 693	40005	.5	$4\frac{3}{8} \times 3\frac{3}{4} \times 2\frac{1}{2}$ "	9.01
73 L 697	40010	1	$5\frac{3}{8} \times 3\frac{3}{4} \times 2\frac{1}{2}$ "	11.37
73 L 659	40040A*	4	$8\frac{3}{8} \times 3\frac{3}{4} \times 4\frac{3}{8}$ "	24.67

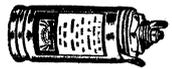


TLA & TNAD TRANSMITTING CAPACITORS

Designed to provide high safety factor and exceptionally long life. Inverted mtg. in $\frac{3}{4}$ " hole. *Have two 10-32 screw terminals and two solder lug terminals insulated from case; others have one screw terminal and one solder-type ground lug. Meet MIL-C-25A test. $2\frac{7}{8} \times 1\frac{1}{2}$ " diameter except $1\frac{1}{2} \times 1\frac{1}{2}$ " diameter. With hardware. Av. shpg. wt., 2 lbs.

No.	Type	Mfd	Volts	NET
73 L 630	TLA6020	2	600	2.70
73 L 632	TLA6040 †	4	600	3.70

No.	Type	Mfd	Volts	NET
73 L 633	TNAD6040 *†	4	600	4.17
73 L 636	TNAD10020*†	2	1000	3.70



"SILVER MIKE" MICA CAPACITORS

Silvered mica midget capacitors molded in low-loss red bakelite. Excellent for use in high-Q electronic circuits where it is essential that frequency stability and high efficiency be maintained. Tolerance, $\pm 5\%$. 500 volts DC working, 1000 volts DC test. Has tinned leads. Av. shpg. wt., 2 oz.

No.	Type	Mfd	NET
14 L 386	5R5T33	.00033	.38
14 L 387	5R5T39	.00039	.38
14 L 388	5R5T47	.00047	.41
14 L 389	5R5T51	.00051	.41
14 L 394	5R5T3	.0003	.32
14 L 395	5R5T4	.0004	.38
14 L 396	5R5T5	.0005	.41

TYPE 5R

Size, $\frac{5}{16} \times \frac{1}{16} \times \frac{3}{16}$ ". With $1\frac{1}{4}$ " tinned leads.

No.	Type	Mfd	NET
14 L 341	1R5T75	.00075	.56
14 L 342	1R5T82	.00082	.56
14 L 343	1R5D1	.001	.65
14 L 380	1R5D15	.0015	.79
14 L 381	1R5D2	.002	.79
14 L 382	1R5D25	.0025	1.06
14 L 383	1R5D3	.003	1.21
14 L 384	1R5D4	.004	1.26
14 L 385	1DR5D5	.005	1.32
14 L 384	1DR3D68*	.0068	1.47
14 L 345	1DR3D75*	.0075	1.47
14 L 346	1DR3D82*	.0082	1.47
14 L 347	1DR3S1*	.01	1.47

TYPES 1R AND 1DR

Size: Type 1R, $\frac{1}{16}$ " square x $\frac{1}{4}$ "; Type 1DR, $\frac{1}{16}$ " square x $\frac{3}{16}$ ". *300 volts working.

No.	Type	Mfd	NET
14 L 850	22R5O1	.00001	
14 L 851	22R5O15	.00001	

Sprague Industrial Capacitors

INDUSTRIAL BUYERS—BUY AT OEM PRICES FROM STOCK

Allied offers an excellent selection of Sprague industrial capacitors. All types listed here are in stock for immediate delivery in any of the quantities specified—and at the same prices you would pay if you ordered direct from the factory.

In addition to Sprague Capacitors, Allied has the world's largest stocks of other industrial electronic parts and equipment, also available at factory prices. Save time, money and effort—write to our Industrial Division for quantity price quotations.

SERIES 96P & 196P "VITAMIN Q" SUBMINIATURE PAPER CAPACITORS



Subminiature capacitors impregnated with "Vitamin Q" for higher insulation resistance. Have insulating sleeve. Hermetically sealed with glass-to-metal, solder-seal terminals. 96P-S2 units are inserted type construction; 196P-S2 are extended-foil type; use where losses at resonance are a factor. Tol., ±10%. Av. shpg. wt., 4 oz.

SERIES 96P-S2

No.	Type	Mfd	WVDC	Size	NET
15 L 911	10391	.01	100	3/16x3/8	1.94
15 L 926	14791	.1	100	3/16x1/2	2.13
15 L 925	14791	.47	100	3/16x1/2	2.48
15 L 912	10392	.01	200	3/16x3/8	2.04
15 L 913	22392	.022	200	15/64x3/8	2.04
15 L 914	47392	.047	200	3/16x3/8	2.15
15 L 915	22492	.22	200	13/32x1 1/8	2.36
15 L 924	10492	.1	200	3/16x1/2	2.21
15 L 923	47492	.47	200	3/16x1/2	2.68
15 L 916	10592	1.0	200	3/16x1/2	3.09
15 L 045	47393	.047	300	3/16x1/2	2.18
15 L 046	10493	.1	300	3/16x1/2	2.24
15 L 047	47493	.47	300	3/16x1/2	2.78
15 L 048	10593	1.0	300	3/16x1/2	3.33
15 L 917	10394	.01	400	3/16x3/8	2.11
15 L 918	22394	.022	400	3/16x3/8	2.18
15 L 919	47394	.047	400	3/16x3/8	2.26
15 L 922	10494	.1	400	3/16x1/2	2.18
15 L 920	22494	.22	400	15/64x1 1/8	2.68
15 L 921	47494	.47	400	11/32x1 1/8	3.09
15 L 924	10594	1.0	400	1/16x1 1/8	3.71
15 L 927	22296	.0222	600	15/64x3/8	2.07
15 L 902	47296	.047	600	15/64x3/8	2.11
15 L 903	68296	.068	600	3/16x3/8	2.11
15 L 904	10396	.01	600	3/16x3/8	2.17
15 L 905	22396	.022	600	3/16x3/8	2.22
15 L 906	47396	.047	600	3/16x1 1/8	2.32
15 L 907	68396	.068	600	15/64x1 1/8	2.42
15 L 908	10496	.1	600	3/16x1/2	2.57
15 L 910	47496	.47	600	3/16x1/2	3.35

SERIES 196P-S2

No.	Type	Mfd	WVDC	Size	NET
15 L 444	10291	.001	100	1 1/4x3/8	1.98
15 L 445	33291	.0033	100	1 1/4x3/8	2.00
15 L 446	47291	.0047	100	1 1/4x3/8	2.00
15 L 447	47391	.047	100	3/16x1/2	2.18
15 L 448	10492	.1	200	3/16x1 1/8	2.30
15 L 449	47293	.047	300	15/64x3/8	2.11
15 L 454	47393	.047	300	15/64x3/8	2.32
15 L 455	33294	.0033	400	15/64x3/8	2.15
15 L 456	47394	.047	400	3/16x1 1/8	2.38
15 L 457	10494	.1	400	3/16x1 1/8	2.58
15 L 458	10296	.001	600	15/64x3/8	2.15
15 L 459	22396	.022	600	15/64x3/8	2.15
15 L 456	10396	.01	600	3/16x3/8	2.28
15 L 457	47396	.047	600	15/64x1 1/8	2.49
15 L 458	10496	.1	600	3/16x1 1/8	2.73

CP-53 CAPACITORS

Non-inductive oil-filled bathtub capacitors; hermetically sealed. JAN C-25. Suffix K has tol. of ±10%; suffix V, +20%, -10%. For use up to 85°C. 600 WVDC except *1000 WVDC. 5 oz.

No.	JAN No.	Mfd	Size	NET
15 L 727	B1EF503K	.05	1 1/32x1 1/8	1.77
15 L 736	B1EF104K	.1	1 1/32x1 1/8	1.83
15 L 737	B1EF254K	.25	1 1/32x1 1/8	1.89
15 L 738	B1EF504K	.5	1 1/32x1 1/8	1.89
15 L 739	B1EF105K	1.0	2 1/16x1 1/4	2.39
15 L 740	B1EF205K	2.0	2x2 1/16	3.19
15 L 741	B1EF104V	1-1	1 1/32x1 1/8	1.88
15 L 742	B4EF254V	25-25	1 1/32x1 1/8	2.56
15 L 743	B4EF504V	5-5	2 1/16x1 1/4	2.92
15 L 744	B5EF104V	1-1	2 1/16x1 1/4	2.85
15 L 745	B1EG254K*	-.25	1 1/32x1 1/8	2.00
15 L 735	B1EG104K*	-.1	1 1/32x1 1/8	1.94
15 L 746	B4EG254K*	25-25	2 1/16x1 1/4	2.80
15 L 747	B1EG504K*	5	2 1/16x1 1/4	2.87
15 L 748	B1EG105K*	1.0	2x2 1/16	2.14

For OEM prices on 96P-S2 and 196P-S2 capacitors in quantities of 25-49 and 50-up; and for CP-53 capacitors in quantities of 10-24, 25-49 and 50-up, write or phone our Industrial Division.

TYPE CP70 PAPER CAPACITORS



Type B



Type E

Oil-filled paper capacitors, hermetically sealed in metal cans with crimped and soldered seams. For heavy-duty use; withstand high temperature and surge voltages. JAN C-25. 12 oz.

TYPE B

No.	JAN No.	Mfd	WV	Size	NET
15 L 262	B1EF205K	2.0	600	1 1/32x1 1/8x3 3/4	3.92
15 L 263	B1EF405K	4.0	600	2 1/8x1 3/8x3 3/4	5.47
15 L 264	B1EF605K	6.0	600	3 1/8x1 1/2x3 3/4	6.48
15 L 265	B1EF106K	10.0	600	3 1/8x1 1/2x4	8.69
15 L 266	B1EG105K	1.0	1000	1 1/32x1 1/8x2 1/2	3.64
15 L 267	B1EG205K	2.0	1000	1 1/32x1 1/8x4	4.68
15 L 268	B1EG405K	4.0	1000	3 1/8x1 1/2x3 3/4	6.32

TYPE E

No.	JAN No.	Mfd	WV	Size	NET
15 L 563	E1EF504 K	.5	600	1 1/32x1 1/8x2 1/4	2.88
15 L 564	E1EG104K	.1	1000	1 1/32x1 1/8x1 1/2	2.68
15 L 565	E1EG254K	.25	1000	1 1/32x1 1/8x2 1/4	3.03
15 L 566	E1EG105K	1.0	1000	1 1/32x1 1/8x2 1/4	4.10
15 L 567	E1EG205K	2.0	1000	1 1/32x1 1/8x4 3/4	5.36
15 L 568	E1EG405K	4.0	1000	3 1/8x1 1/2x3 3/4	6.77
15 L 569	E1EG605K	6.0	1000	3 1/8x1 1/2x4	8.38
15 L 590	E1EG805K	8.0	1000	3 1/8x1 1/2x4 3/4	8.97
15 L 591	E1EG156K	15.0	1000	3 3/8x3 3/8x4 3/4	13.02
15 L 592	E1EH205K	2.0	1500	2 1/8x1 3/8x4 3/4	6.47
15 L 593	E1EH405K	4.0	1500	3 1/8x1 1/2x4 3/4	8.68
15 L 594	E1EJ104 K	.1	2000	2 1/8x1 1/8x2 1/4	4.09
15 L 595	E1EJ254K	.25	2000	2 1/8x1 1/8x2 1/4	4.43
15 L 596	E1EJ105K	1.0	2000	2 1/8x1 1/8x4 3/4	5.61
15 L 597	E1EJ205K	2.0	2000	3 1/8x1 1/2x4 3/4	6.36
15 L 528	E1EJ405K	4.0	2000	3 3/8x2 1/8x5 1/8	9.63

For OEM prices on CP70 capacitors (in lots of 10 and up), write to Allied's Industrial Division.

TYPE 118P-S2 METALLIZED SUBMINIATURES



Improved, highly reliable metallized-paper capacitors. Hermetically sealed. Will operate at rated voltage up to 125°C. High insulation resistance and self-healing dielectric. Have insulating sleeve. Meet MIL-C-25A specifications. Developed especially for military and industrial equipment—give long service under rugged conditions. Shpg. wt., 5 oz.

200 VOLTS DC WORKING

No.	Type	Mfd	Size	NET
15 L 256	10402	.1	5/16x1 1/8	1.61
15 L 257	15402	.15	3/8x1 1/4	1.65
15 L 258	22402	.22	1/2x1 3/8	1.65
15 L 275	33402	.33	1 1/2x1 1/2	1.80
15 L 276	47402	.47	1/2x1 1/8	1.90
15 L 277	68402	.68	1/2x1 1/8	1.98
15 L 278	10502	1.0	3/8x1 1/4	2.13
15 L 279	20502	2.0	4/8x1 1/8	3.85
15 L 282	30502	3.0	4/8x1 1/8	4.21
15 L 283	40502	4.0	3/4x1 1/8	5.04
15 L 284	50502	5.0	1x1 1/8	5.54
15 L 287	60502	6.0	1x1 1/8	5.96

400 VOLTS DC WORKING

No.	Type	Mfd	Size	NET
15 L 293	10404	.1	1/2x1 1/8	1.71
15 L 294	22404	.22	1/2x1 1/8	1.88
15 L 295	33404	.33	3/8x1 1/8	2.08
15 L 296	10504	1.0	3/4x1 1/8	2.91
15 L 224	20504	2.0	1x1 1/8	4.80

600 VOLTS DC WORKING

No.	Type	Mfd	Size	NET
15 L 228	10306	.01	5/16x1 1/8	1.59
15 L 235	10406	.1	1/2x1 1/8	1.77
15 L 237	47406	.47	4/8x1 1/8	2.64
15 L 238	68406	.68	4/8x1 1/8	2.90
15 L 239	10506	1.0	1x1 1/8	3.38

For OEM prices on 118P-S2 capacitors (in lots of 25 and up), write to Allied's Industrial Division.

MINIATURE AND SUBMINIATURE TANTALEX CAPACITORS



TYPE 102D MINIATURE FOIL

Miniature tantalum-foil electrolytic capacitors. Designed for reliable operation over the wide temperature range of -55°C. to +85°C. Useful for applications requiring up to 150 working volts DC in military or industrial equipment, including control equipment, computers, airborne radar and communication equipment. Can be used in low temperature conditions where aluminum-foil capacitors are inoperative. Have extremely low leakage current. Valuable for use where small physical size, stable electrical characteristics, and long service life are important. Silver-plated metal case. Polarized; shell should be insulated from chassis unless chassis is negative potential. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Mfd	DC WV	Size	NET EACH
15 L 332	102D107	100	6	9/32x7/8	7.64
15 L 333	102D108	35	6	3/8x1 1/8	12.47
15 L 334	102D112	25	10	9/32x7/8	7.64
15 L 335	102D116	4.5	15	3/8x1 1/8	4.99
15 L 336	102D121	3	25	3/8x1 1/8	4.99
15 L 337	102D122	12	25	3/8x1 1/8	7.64
15 L 338	102D123	35	25	3/8x1 1/8	12.47
15 L 339	102D124	70	25	3/8x2 1/8	17.00
15 L 343	102D126	2.5	30	3/8x1 1/8	4.99
15 L 344	102D127	10	30	3/8x1 1/8	7.64
15 L 345	102D131	1.5	50	3/8x1 1/8	4.99
15 L 346	102D132	6	50	3/8x2 1/8	7.64
15 L 347	102D133	20	50	3/8x2 1/8	12.47
15 L 348	102D134	40	50	3/8x2 1/8	17.00
15 L 349	102D137	5	60	3/8x2 1/8	7.64
15 L 393	102D141	1	75	3/8x1 1/8	4.49
15 L 394	102D151	.5	150	3/8x1 1/8	4.49
15 L 395	102D152	2	150	3/8x2 1/8	7.64
15 L 396	102D153	7	150	3/8x1 1/8	12.47
15 L 397	102D154	14	150	3/8x2 1/8	17.00

For OEM prices on Type 102D and 150D Tantalex Capacitors listed above (in lots of 25 to 49 or 50 and up), write to our Industrial Division.

TYPE 150D SUBMINIATURE

Tiny, extremely stable tantalum capacitors. Ideal for transistorized circuitry in the most critical military and commercial applications. Provide highly reliable operation throughout temperature range of -80° to +85°C. Hermetically-sealed metal cases. Meet MIL-C-3965 requirements. Tolerance, ±20%. Av. wt., 2 oz.

Stock No.	Mfrs Type	Mfd	DC WV	Size	NET EACH
74 L 670	150D158	6.8	6	5/16x1/4	3.64
74 L 671	150D164	60.0	6	1 1/8x7/16	3.81
74 L 672	150D172	4.7	10	1/8x1/4	3.64
74 L 673	150D177	33.0	10	1 1/8x1/4	3.81
74 L 674	150D178	40.0	10	1 1/8x1/4	3.81
74 L 675	150D185	3.3	15	1/8x1/4	3.64
74 L 676	150D190	22.0	15	1 1/8x7/16	3.81
74 L 677	150D195	1.5	20	3/8x1/4	3.64
74 L 678	150D196	2.2	20	3/8x1/4	3.64
74 L 679	150D199	6.8	20	1 1/8x7/16	3.81
74 L 680	150D200	10.0	20	1 1/8x7/16	3.81
74 L 681	150D259	15.0	20	1 1/8x7/16	3.81
74 L 682	150D242	.0047	35	3/8x1/4	3.29
7					

Sprague Capacitors



TYPE 68P PAPER MIDGETS

Midget-type capacitors, manufactured to extremely high standards. Ideal for replacement use or new design. May be used in portable and auto radios—wherever space is at a premium. Provide dependable service, even under adverse operating conditions. Provide reliable operation at ambient temperatures as high as 85 degrees Centigrade. Have high resistance to effects of humidity. Sizes given are diameter and length. Av. shpg. wt., 2 oz.

No.	Type	Mfd	W.V.	Size	EA.
15 L 820	68P26	.001	600	1/4x1 1/8"	21c
15 L 821	68P27	.002	600	1/4x1 1/8"	21c
15 L 822	68P28	.003	600	3/8x1 1/8"	21c
15 L 823	68P29	.004	600	3/8x1 1/8"	21c
15 L 824	68P30	.005	600	3/8x1 1/8"	24c
15 L 825	68P31	.006	600	3/8x1 1/8"	24c
15 L 826	68P32	.008	600	3/8x1 1/8"	24c
15 L 827	68P33	.01	600	3/8x1 1/8"	29c
15 L 828	68P34	.02	600	1/2x1 1/8"	26c
15 L 829	68P35	.05	600	1/2x1 1/8"	41c
15 L 830	68P36	1	600	3/4x1 1/8"	42c
15 L 832	68P40	.2	600	3/4x1 1/8"	47c
15 L 831	68P37	.25	600	3/4x2"	47c
15 L 800	68P1	.001	400	1/4x1 1/8"	21c
15 L 802	68P3	.003	400	1/4x1 1/8"	21c
15 L 803	68P4	.004	400	1/4x1 1/8"	21c
15 L 804	68P5	.005	400	1/4x1 3/8"	21c
15 L 805	68P6	.006	400	1/4x1 3/8"	21c
15 L 806	68P8	.01	400	3/8x1 3/8"	24c
15 L 807	68P9	.02	400	3/8x1 3/8"	26c
15 L 808	68P10	.05	400	1/2x1 3/8"	29c
15 L 843	68P38	1	400	1/2x1 1/2"	41c
15 L 845	68P22	.25	400	3/8x1 1/2"	44c
15 L 846	68P23	.5	400	3/8x2 3/8"	50c
15 L 809	68P11	.005	200	1/4x1 1/8"	21c
15 L 810	68P12	.006	200	1/4x1 1/8"	21c
15 L 811	68P14	.01	200	3/8x1 1/8"	24c
15 L 812	68P15	.02	200	3/8x1 3/8"	26c
15 L 813	68P16	.05	200	3/8x1 1/2"	29c
15 L 814	68P17	1	200	1/2x1 1/2"	35c
15 L 836	68P18	.2	200	1/2x1 1/2"	41c
15 L 837	68P24	.25	200	1/2x1 1/2"	38c
15 L 838	68P25	.5	200	3/8x1 3/8"	47c
15 L 815	68P19	.25	100	1/4x1 1/8"	41c
15 L 816	68P20	.5	100	3/8x1 1/8"	47c

DOORKNOB CAPACITORS

High-voltage, 500-mmf plastic capacitors for replacement use in all types of TV sets. Moisture-resistant, thermostatted molded plastic. Molded guard rings increase surface leakage path. Capacitor body has threaded ends and can take a wide variety of screw-in terminals. The 20DK-T's are supplied with 14 terminals (2 of each type illustrated). Type 30DK-T's is supplied with 2 terminals, *see illustration.



Type 20DK-T5. Rated at 20 KV. Size, 1" diameter, 3/8" long. Shpg. wt., 3 oz. 15 L 599. PER SET OF 2.....2.17

Type 30DK-T5. Rated at 30 KV. Size, 1 1/8" diameter, 1 1/4" long. Shpg. wt., 4 oz. 15 L 597. NET EACH.....1.76

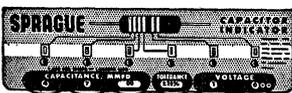
HYPASS 3-TERMINAL NETWORK CAPACITORS

Feed-through type VHF bypass capacitors. Perform efficiently up to 150 mc. Reduce vibrator hash and harmonic radiation. Type 48P18 is for reduction of voltage regulator noise in mobile applications; leads rated at 40 amps. Type 80P3 leads rated at 20 amps. 48P18 and 80P3 have screw terminals. Wt., 2 oz.



No.	Type	Mfd	WVDC	Size	NET
15 L 688	48P18	.5	50	1x1 1/8"	2.23
15 L 683	46P12	.002	600	1/4x1 1/8"	1.26
15 L 685	48P8	.1	600	1/4x1 1/8"	1.53
15 L 689	80P3	.1	600	1/4x1 1/8"	1.73
15 L 697	47P16	.002	5000	1x1 1/8"	1.88

CAPACITOR INDICATOR



Type C-751. Reads color codes directly in capacitance, tolerance, and voltage. Wt., 2 oz. 37 K 076.....18c

"BLACK BEAUTY" TELECAPS

Hi-temp molded tubulars. Highly resistant to heat and moisture; rugged, completely insulated. Special molded construction. 200 to 1000 v. types operate to 105° C; 1600 v. and up, operate to 85° C. 600-6000 v. types are oil impregnated. Av. shpg. wt., 3 oz.



200 VOLTS DC WORKING

No.	Type	Mfd	Size	EA.
15 L 120	2TM-S2	.02	3/8x1 1/8"	15c
15 L 149	2TM-S47	.047	3/8x1 1/8"	15c
15 L 121	2TM-S5	.05	3/8x1 1/8"	15c
15 L 122	2TM-S5	.1	3/8x1 1/8"	21c
15 L 145	2TM-P15	.15	1/2x1 1/8"	21c
15 L 146	2TM-P22	.22	5/8x1 1/8"	24c
15 L 147	2TM-P25	.25	5/8x1 1/8"	24c
15 L 148	2TM-P47	.47	5/8x1 1/8"	35c
15 L 123	2TM-P5	.5	5/8x1 1/8"	35c
15 L 124	2TM-M1	1.0	3/4x2 1/4"	53c

400 VOLTS DC WORKING

No.	Type	Mfd	Size	EA.
15 L 125	4TM-S1	.01	3/8x1"	15c
15 L 126	4TM-S2	.02	3/8x1 1/4"	15c
15 L 127	4TM-S2	.02	3/8x1 1/4"	15c
15 L 014	4TM-S47	.047	3/8x1 1/4"	18c
15 L 127	4TM-S5	.05	3/8x1 1/4"	18c
15 L 015	4TM-S6	.068	1/2x1 1/2"	21c
15 L 128	4TM-P1	.1	1/2x1 1/2"	21c
15 L 011	4TM-P15	.15	5/8x1 1/2"	24c
15 L 521	4TM-P2	.2	5/8x1 1/2"	24c
15 L 012	4TM-P22	.22	5/8x1 1/2"	24c
15 L 129	4TM-P25	.25	5/8x1 1/2"	24c
15 L 010	4TM-P5	.5	3/4x2 1/4"	35c

600 VOLTS DC WORKING

No.	Type	Mfd	Size	EA.
16 L 250	6TM-T1	.001	3/8x1"	15c
15 L 051	6TM-D25	.0025	3/8x1"	15c
16 L 252	6TM-T4	.00025	3/8x1"	15c
16 L 253	6TM-T5	.0005	3/8x1"	15c
15 L 070	6TM-D1	.001	3/8x1"	15c
15 L 084	6TM-D15	.0015	3/8x1 1/4"	15c
15 L 071	6TM-D2	.002	3/8x1 1/4"	15c
15 L 092	6TM-D22	.0022	3/8x1 1/4"	15c
15 L 072	6TM-D3	.003	3/8x1 1/4"	15c
15 L 522	6TM-D33	.0033	3/8x1 1/4"	15c
15 L 073	6TM-D4	.004	3/8x1 1/4"	15c
15 L 093	6TM-D47	.0047	3/8x1 1/4"	15c
15 L 074	6TM-D5	.005	3/8x1 1/4"	15c
15 L 075	6TM-D6	.006	3/8x1 1/4"	15c
16 L 254	6TM-D68	.0068	3/8x1 1/4"	18c
15 L 523	6TM-D9	.009	3/8x1 1/4"	18c
15 L 076	6TM-S1	.01	3/8x1 1/4"	18c
15 L 094	6TM-S15	.015	3/8x1 1/4"	18c
15 L 077	6TM-S2	.02	3/8x1 1/4"	18c
16 L 255	6TM-S22	.022	3/8x1 1/4"	18c
15 L 078	6TM-S3	.03	1/2x1 1/2"	21c
15 L 526	6TM-S33	.033	1/2x1 1/2"	21c
15 L 079	6TM-S4	.04	1/2x1 1/2"	21c
15 L 080	6TM-S5	.05	1/2x1 1/2"	24c
15 L 081	6TM-S6	.06	1/2x1 1/2"	24c
15 L 082	6TM-P1	.1	3/8x1 1/8"	26c
15 L 524	6TM-P15	.15	3/4x2 1/4"	29c
15 L 525	6TM-P2	.2	3/4x2 1/4"	32c
15 L 083	6TM-P25	.25	3/4x2 1/4"	32c
16 L 260	6TM-P5	.5	1x2 1/2"	47c
16 L 261	TC-10	1.0	1 1/8x2 3/8"	73c

1000 VOLTS DC WORKING

No.	Type	Mfd	Size	EA.
15 L 928	10TM-T5	.0005	3/8x1"	29c
15 L 929	10TM-D1	.001	3/8x1"	29c
15 L 930	10TM-D15	.0015	3/8x1"	29c
15 L 931	10TM-D2	.002	3/8x1 1/8"	29c
15 L 932	10TM-D22	.0022	3/8x1 1/8"	29c
15 L 933	10TM-D3	.003	3/8x1 1/8"	29c
15 L 936	10TM-D5	.005	3/8x1 1/8"	29c
15 L 937	10TM-D68	.0068	3/8x1 1/8"	29c
15 L 938	10TM-S1	.01	1/2x1 1/2"	29c
15 L 939	10TM-S15	.015	1/2x1 1/2"	29c
15 L 940	10TM-S2	.02	1/2x1 1/2"	29c
15 L 941	10TM-S22	.022	1/2x1 1/2"	29c
15 L 942	10TM-S3	.03	3/8x1 1/8"	35c
15 L 943	10TM-S35	.035	3/8x1 1/8"	35c
15 L 944	10TM-S47	.047	3/8x1 1/8"	35c
15 L 945	10TM-S5	.05	3/8x1 1/8"	35c
15 L 946	10TM-S68	.068	3/8x1 1/8"	41c
15 L 947	10TM-P1	.1	3/4x2 1/4"	44c

1600 VOLTS DC WORKING

No.	Type	Mfd	Size	EA.
16 L 270	MB-T5	.0005	3/8x1 1/4"	38c
16 L 271	MB-D15	.0015	3/8x1 1/4"	38c
16 L 278	MB-D2	.002	3/8x1 1/4"	38c
16 L 272	MB-D22	.0022	3/8x1 1/4"	38c
16 L 159	MB-D3	.003	3/8x1 1/4"	38c
16 L 273	MB-D33	.0033	3/8x1 1/4"	38c
16 L 160	MB-D4	.004	3/8x1 1/4"	38c
16 L 274	MB-D47	.0047	3/8x1 1/4"	38c
15 L 161	MB-D5	.005	3/8x1 1/4"	38c
15 L 162	MB-D6	.006	3/8x1 1/4"	38c
16 L 275	MB-D68	.0068	3/8x1 1/4"	38c
15 L 163	MB-D7	.007	3/8x1 1/4"	38c
15 L 164	MB-D75	.0075	3/8x1 1/4"	38c
15 L 165	MB-D8	.008	3/8x1 1/4"	38c
15 L 166	MB-S1	.01	1/2x1 1/2"	41c
15 L 167	MB-S15	.015	1/2x1 1/2"	41c
15 L 168	MB-S2	.02	1/2x1 1/2"	41c
16 L 277	MB-S3	.03	3/8x1 1/8"	41c
16 L 278	MB-S4	.04	3/8x1 1/8"	41c
16 L 280	TR-15	.05	3/4x2 1/4"	41c
16 L 281	TR-215	2x.015	3/4x2"	47c

6000 VOLTS DC WORKING

15 L 853 is rated at 10,000 DC wkg. volts.

No.	Type	Mfd	Size	EA.
15 L 850	TVM-356	.0005	1/2x1 1/2"	79c
15 L 851	TVM-216	.001	1/2x1 1/2"	79c
15 L 852	TVM-256	.005	3/8x1 1/8"	79c
15 L 853	TVM-351	.0005	3/8x1 1/8"	88c

TK-1 KIT. A selection of 72 "Black Beauty" capacitors in plastic case. All are 600 volt—11 most-used values. Compartmented case contains: 5—.001, 5—.002, 2—.0047, 8—.005, 8—.02, 2—.03, 15—.01, 5—.047, 12—.05, 8—.1, and 2—.25. 11x6 1/2x2". Wt., 2 1/2 lbs. 58 L 515. NET.....14.17

CAN-TYPE DRY ELECTROLYTICS

Can-type electrolytic capacitors for replacement and original equipment use. Inverted screw-can mounting. Will replace old-style or standard-size units. With mtg. hardware.



PLS "TINY MIKE"

525 Volts Surge—450 Volts Wkg.

An assortment of electrolytic capacitors with sections having separate positive leads and common negative leads. Feature etched-foil construction. Av. shpg. wt., 6 oz.

No.	Type	Mfd	Size	NET
15 L 700	PLS-4	4	1 3/8x2 1/8"	1.18
15 L 701	PLS-8	8	1 3/8x2 1/8"	1.29
15 L 702	PLS-12	12	1 3/8x2 1/8"	1.41
15 L 703	PLS-16	16	1 3/8x2 1/8"	1.44
15 L 709	PLS-20	20	1 3/8x2 1/8"	1.59
15 L 710	PLS-25	25	1 3/8x3 1/8"	1.71
15 L 711	PLS-30	30	1 3/8x3 1/8"	1.76
15 L 712	PLS-40	40	1 3/8x3 1/8"	1.85
15 L 713	PLS-48	48	1 3/8x3 1/8"	1.73
15 L 705	PLS-88	8-8	1 1/2x2 1/8"	1.76
15 L 706	PLS-88	8-8	1 1/2x2 1/8"	1.94
15 L 707	PLS-816	8-16	1 1/2x2 1/8"	1.94
15 L 708	PLS-216	16-16	1 1/2x3 1/8"	2.09

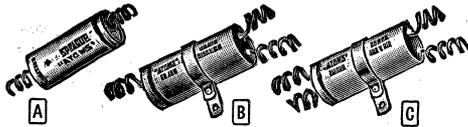
IS INVERTED SCREW CAN

525 Volts Surge—450 Volts Wkg.

Negative can. Av. shpg. wt., 6 oz.

No.	Type	Mfd	Size	NET
15 L 020	LS-8	8	1 3/8x2 1/8"	1.29
15 L 021	LS-12	12	1 3/8x2 1/8"	1.41
15 L 022	LS-16	16	1 3/8x2 1/8"	1.44
15 L 025	LS-20	20	1 3/8x2 1/8"	1.59
15 L 026	LS-25	25	1 3/8x3 1/8"	1.71
15 L 027	LS-30	30	1 3/8x3 1/8"	1.76
15 L 028	LS-40	40	1 3/8x3 1/8"	1.85
15 L 023	LS-88	8-8	1 1/2x2 1/8"	

Sprague Capacitors



TVA AND TU ATOMS—MIDGET ELECTROLYTICS

Very compact, metal-cased dry electrolytics. Engineered especially for replacements in tough TV applications—such as power supplies, decoupling circuits, cathode bypass circuits, etc. Will withstand the high surge voltages and high ripple currents common in TV circuits. Operate efficiently at temperatures as high as 85°C. *Separate negative lead. Av. shpg. wt., 6 oz.

A SINGLE-SECTION ATOMS

Stock No.	Mfr's Type	Mfd	WV	Size	NET EA.
16 L 249	TVA-1962	8	600	1 5/8x2 3/4"	.23
16 L 256	TVA-1403	16	600	1 3/8x1 3/4"	.29
16 L 257	TVA-1985	16	600	1 3/8x1 3/4"	.29
16 L 258	TVA-1966	20	600	1 3/8x1 3/4"	.59
15 L 175	TVA-1902	8	500	3/4x1 1/16"	.76
15 L 176	TVA-1905	16	500	1 5/8x2 3/4"	.88
15 L 177	TVA-1906	20	500	1x2 3/4"	.94
16 L 613	TVA-1802	10	475	3/4x1 1/16"	.79
16 L 614	TVA-1804	20	475	3/4x2 7/8"	.94
16 L 615	TVA-1701	2	450	7/8x1 3/16"	.65
15 L 170	TVA-1702	4	450	9/16x1 1/16"	.68
15 L 171	TVA-1704	8	450	1 1/16x1 1/16"	.73
15 L 172	TVA-1705	10	450	1 1/8x1 1/16"	.76
15 L 173	TVA-1708	16	450	3/4x2 3/8"	.82
15 L 174	TVA-1709	20	450	3/4x2 3/8"	.91
15 L 169	TVA-1711	30	450	3/4x2 3/8"	1.00
15 L 178	TVA-1712	40	450	3/4x2 1/2"	.06
15 L 991	TVA-1713	50	450	3/4x3 1/8"	.23
16 L 248	TVA-1714	60	450	1x3 1/16"	.38
15 L 985	TVA-1716	80	450	1x3 1/16"	1.65
16 L 616	TVA-1601	4	350	3/4x1 1/8"	.62
15 L 181	TVA-1603	8	350	3/4x1 1/8"	.71
15 L 184	TVA-1608	20	350	1 3/8x2 1/8"	.85
15 L 983	TVA-1611	40	350	3/4x2 7/8"	1.03
15 L 984	TVA-1613	60	350	1x2 7/8"	1.15
16 L 247	TVA-1575	140	300	1 3/8x1 1/8"	.59
15 L 185	TVA-1501	4	250	7/8x1 1/8"	.85
15 L 186	TVA-1503	8	250	3/4x1 1/8"	.68
16 L 617	TVA-1504	10	250	3/4x1 1/8"	.71
15 L 187	TVA-1505	12	250	3/4x1 1/8"	.73
15 L 188	TVA-1507	16	250	3/4x1 1/8"	.76
15 L 189	TVA-1508	20	250	1 1/16x1 1/8"	.79
16 L 618	TVA-1510	30	250	1 1/8x2 3/8"	.85
15 L 190	TVA-1511	40	250	3/4x2 3/8"	.91
16 L 246	TVA-1480	200	200	1 3/8x3 3/8"	1.71
15 L 192	TVA-1405	8	150	3/4x1 1/8"	.62
15 L 193	TVA-1405	8	150	3/4x1 1/8"	.62
15 L 226	TVA-1406	10	150	3/4x1 1/8"	.62
15 L 194	TVA-1407	12	150	3/4x1 1/8"	.65
15 L 195	TVA-1409	16	150	9/16x1 1/16"	.68
16 L 241	TVA-1403	5	150	3/4x1 1/8"	.59
15 L 196	TVA-1410	20	150	3/4x1 1/8"	.71
15 L 197	TVA-1411	25	150	3/4x1 1/8"	.76
15 L 192	TVA-1412	30	150	3/4x1 1/8"	.73
15 L 198	TVA-1413	40	150	3/4x1 1/8"	.79
15 L 199	TVA-1414	50	150	3/4x1 1/8"	.82
16 L 243	TVA-1415	60	150	3/4x1 1/8"	.88
16 L 619	TVA-1418	80	150	3/4x2 1/8"	.94
16 L 619	TVA-1420	100	150	3/4x2 3/8"	1.03
16 L 240	TVA-1422	150	150	1x2 3/4"	1.12
16 L 244	TVA-1423	200	150	1 1/8x2 3/4"	1.29
16 L 245	TVA-1425	300	150	1 3/8x3 3/8"	1.50
15 L 870	TVA-1300	1	50	3/4x1 1/8"	.53
15 L 871	TVA-1301	2	50	3/4x1 1/8"	.53
15 L 200	TVA-1303	5	50	3/4x1 1/8"	.59
15 L 201	TVA-1304	10	50	3/4x1 1/8"	.62
15 L 202	TVA-1306	25	50	3/4x1 1/8"	.69
15 L 203	TVA-1308	50	50	3/4x1 1/8"	.71
15 L 876	TVA-1310	100	50	3/4x1 1/8"	.82
15 L 858	TVA-1311	150	50	3/4x1 1/8"	.91
15 L 859	TVA-1312	250	50	1 5/8x1 1/8"	1.03
16 L 620	TVA-1201	2	25	3/4x1 1/8"	.53
15 L 207	TVA-1203	5	25	3/4x1 1/8"	.59

A SINGLE-SECTION ATOMS (cont.)

Stock No.	Mfr's Type	Mfd	WV	Size	NET EA.
15 L 205	TVA-1204	10	25	3/4x1 1/8"	.59
15 L 206	TVA-1205	25	25	3/4x1 1/8"	.59
15 L 208	TVA-1206	50	25	3/4x1 1/8"	.65
15 L 867	TVA-1207	100	25	3/4x1 1/8"	.79
15 L 868	TVA-1208	250	25	3/4x1 1/8"	1.00
15 L 869	TVA-1209	500	25	3/4x2 3/8"	1.35
16 L 237	TVA-1160	100	15	3/4x1 3/8"	.73
16 L 238	TVA-1161	250	15	3/4x1 1/8"	.91
16 L 238	TVA-1162	500	15	1 1/8x2 3/8"	1.03
16 L 239	TVA-1163	1000	15	3/4x2 3/8"	1.35
16 L 234	TVA-1130	100	12	9/16x1 3/8"	.71
15 L 862	TVA-1131	250	12	3/4x1 1/8"	.85
15 L 863	TVA-1132	500	12	3/4x1 1/8"	1.00
16 L 235	TVA-1133	1000	12	1 3/8x2 3/8"	1.32
15 L 981	TVA-1100	50	6	3/4x1 1/8"	.56
16 L 230	TVA-1101	100	6	3/4x1 1/8"	.71
16 L 231	TVA-1102	250	6	3/4x1 1/8"	.79
16 L 232	TVA-1103	500	6	3/4x2 3/8"	.91
15 L 860	TVA-1104	1000	6	1 1/8x2 3/8"	1.12
16 L 233	TVA-1105	1500	6	1 3/8x2 1/8"	1.23
15 L 861	TVA-1106	2000	6	1 3/8x2 1/8"	1.35

B DUAL-SECTION ATOMS

Stock No.	Mfr's Type	Mfd	WV	Size	NET EA.	
15 L 220	TVA-2720	8-8	450	3/4x1 1/8"	1.00	
15 L 221	TU-88	*8-8	450	1 1/8x3 3/8"	1.26	
15 L 222	TVA-2725	16-8	450	3/4x2 3/8"	1.18	
15 L 884	TVA-2722	10-10	450	3/4x1 1/8"	1.09	
15 L 215	TU-1616	*16-16	450	1 3/8x3 3/8"	1.65	
15 L 227	TVA-2730	20-20	450	3/4x2 1/8"	1.47	
15 L 986	TVA-2735	30-30	450	1x3 3/8"	1.76	
15 L 987	TVA-2740	40-40	450	1x3 1/2"	2.00	
16 L 266	TVA-2711	80	450	50	1 3/8x4 3/8"	2.18
16 L 264	TVA-2515	120-80	150	1 3/8x3 3/8"	2.18	
15 L 245	TVA-2435	8-8	150	3/4x1 7/8"	.88	
15 L 254	TVA-2420	16-16	150	3/4x1 7/8"	1.06	
15 L 247	TVA-2428	20-20	150	3/4x1 7/8"	.97	
15 L 248	TU-220	*20-20	150	1x2 1/2"	1.21	
15 L 253	TVA-2421	30-20	150	3/4x1 1/8"	1.00	
15 L 252	TVA-2438	40-20	150	3/4x1 1/8"	1.03	
15 L 251	TVA-2434	30-30	150	3/4x1 1/8"	1.06	
15 L 249	TU-420	*40-20	150	1 1/8x2 3/8"	1.06	
15 L 250	TVA-2442	40-30	150	3/4x1 3/8"	1.06	
15 L 243	TVA-2445	40-40	150	3/4x1 1/8"	1.09	
15 L 305	TVA-2450	50-50	150	3/4x2 7/8"	1.23	
15 L 306	TVA-2460	80-30	150	3/4x2 7/8"	1.29	
16 L 259	TVA-2462	80-50	150	1x3 3/4"	1.38	
16 L 262	TVA-2464	100-100	150	1 3/8x3 3/8"	1.88	
16 L 263	TVA-2467	200-5	150	1x3 3/4"	1.56	
15 L 255	TVA-2315	10-10	50	3/4x1 7/8"	.82	

C TRIPLE-SECTION ATOMS

Stock No.	Mfr's Type	Mfd	WV	Size	NET EA.
15 L 307	TVA-3440	20-20-20	150	3/4x1 1/8"	1.29
15 L 308	TVA-3444	30-30-30	150	3/4x2 3/8"	1.38
15 L 308	TVA-3448	40-30-20	150	3/4x2 3/8"	1.38
15 L 309	TVA-3451	40-40-40	150	1x2 7/8"	1.44
15 L 327	TVA-3455	80-30-30	150	1x2 1/8"	1.62
15 L 328	TVA-3419	30-30	150	3/4x1 1/8"	1.35

C TRIPLE-SECTION ATOMS (cont.)

Stock No.	Mfr's Type	Mfd	WV	Size	NET EA.	
15 L 988	TVA-3415	20-20	150	25	3/4x1 1/8"	1.21
15 L 312	TVA-3423	20	150	25	3/4x1 1/8"	1.29
15 L 328	TVA-3427	40-40	150	25	3/4x2 7/8"	1.44
15 L 313	TVA-3430	50-30	150	25	3/4x2 3/8"	1.38
15 L 329	TVA-3433	50-30	150	25	1x2 3/8"	1.62
15 L 314	TVA-3436	50-50	150	25	1 5/8x2 3/8"	1.47
16 L 283	TVA-3712	2	450	40	1 3/8x4 3/8"	2.68
15 L 990	TVA-3716	12-12	450	40	1x2 1/2"	1.35

QUADRUPE-SECTION ATOMS

No.	Type	Mfd	WV	Size	EACH	
16 L 284	TVA-4576	140-5	300	150	1 1/2x4 3/8"	3.56
16 L 285	TVA-4584	200-30	300	150	1 3/4x4 3/8"	3.65
16 L 286	TVA-4607	140-40-40	300	350	1 3/4x5 1/8"	4.50
16 L 287	TVA-4618	80-60	350	300	1 3/4x4 3/8"	3.47
16 L 288	TVA-4659	80-10	400	50	1 3/4x4 3/8"	3.20
16 L 289	TVA-4705	10	400	50	1 3/4x4 3/8"	3.20
15 L 854	TVA-4742	20-20	450	50	1 3/8x3 3/8"	2.50
15 L 855	TVA-4748	40-20	450	50	1 3/8x4 3/8"	2.76
15 L 856	TVA-4750	40-40	450	50	1 3/8x4 3/8"	3.20

ATOM CAPACITOR KITS

EK-1 Kit of ATOM Electrolytic Capacitors. A kit consisting of the following TVA types of capacitors (listed above): 1 ea.—#1205, 1.303, 1304, 1410, 1704, 1711, 1716, 2450, 2453, 2 ea.—#1705, 1709, 1712. Capacitors are small in size; rated 80°C or 185°F. Excellent for use in auto and AC-DC radios. Supplied in crystal-clear compartmented plastic storage case. Each capacitor immediately accessible. Case size, 7x11 x 1 1/2". Shpg. wt., 2 lbs. **58 L 516. NET.....13.70**

SK-106 Kit of ATOM Electrolytic Capacitors. A kit containing one each of the following TVA types of capacitors (listed above): #1205, 1207, 1303, 1304, 1306, 1308, 1310, 1410, 1422, 1704, 1705, 1708, 1709, 1711, 1712, 1713, 1716, 2428, 2450, 2453. Supplied in compartmented welded metal inventory cabinet. Cabinet is open in front to allow easy access to units. Cabinet size, 9 1/2 x 10 1/2 x 5 3/4". Shpg. wt., 5 lbs. **58 L 514. NET.....18.05**

MOTOR-STARTING CAPACITORS



Electrolytic capacitors for 110 volt capacitor-start AC motors. In sealed aluminum cans with insulating outer cardboard tubes. Lug terminals have screws for quick installation. Screws removable for solder connections, if desired. *Minimum-maximum. Av. wt., 10 oz.

No.	Type	*Mfd	Size	NET
15 L 579	1106	47-56	1 1/2x2 1/8"	1.23
15 L 580	1107	53-64	1 1/2x2 1/8"	1.26
15 L 581	1108	64-77	1 1/2x2 1/8"	1.32
15 L 582	1109	72-88	1 1/2x2 1/8"	1.35
15 L 583	1110	88-108	1 1/2x2 1/8"	1.53
15 L 584	1113	108-130	1 3/8x2 5/8"	1.68
15 L 585	1116	124-149	1 3/8x2 5/8"	1.73
15 L 586	1119	130-156	1 3/8x2 5/8"	1.73
15 L 587	1122	145-175	1 3/8x2 5/8"	1.98
15 L 588	1125	161-193	1 3/8x2 5/8"	1.91
15 L 570	1128	189-227	1 3/8x2 5/8"	2.21
15 L 571	1130	200-240	1 3/8x3 1/8"	2.29
15 L 572	1131	216-259	1 3/8x3 1/8"	2.38
15 L 573	1134	233-280	1 3/8x3 1/8"	2.65
15 L 574	1137	243-292	1 3/8x4 1/8"	2.76
15 L 575	1140	270-324	1 3/8x4 1/8"	2.79
15 L 576	1142	324-388	1 3/8x4 1/8"	3.18
15 L 577	1143	340-408	1 3/8x4 1/8"	3.26
15 L 578	1146	378-440	1 3/8x4 1/8"	3.53
15 L 578	1149	400-480	1 3/8x4 1/8"	3.56

SPRAGUE "LITTL-LYTIC" SUBMINIATURE CAPACITORS



Sprague Capacitors

TVL MIDGET CAN ELECTROLYTICS

"Twist-Lok," hermetically sealed, aluminum can capacitors for exact replacement use in Admiral, Motorola, Emerson and many other television receivers. Withstand extremely high temperatures, ripple currents and surge voltages encountered in TV circuits. Self-mounting, with twist-prong tabs that go through chassis or connect to

washer for above-chassis mounting. Terminals are welded to capacitor cathode and tinned for easy soldering. Supplied with bakelite insulating washer and metal washer for secure mounting. Capacity and voltage clearly printed on tubular casing to eliminate replacement error. Can serve as common negative. Av. shpg. wt., 6 oz.



SINGLE SECTION

Stock No.	Mfr's Type	Mfd	DC Wkg. V.	Size	NET EACH
16 L 510	TVL-1940	10	500	1x2"	.94
16 L 435	TVL-1943	20	500	1x2 1/2"	1.09
16 L 184	TVL-1947	30	500	1x3"	1.18
16 L 436	TVL-1950	40	500	1x3 1/2"	1.47
16 L 600	TVL-1958	80	500	1 3/8x3"	1.88
16 L 185	TVL-1960	90	500	1 3/8x3 1/2"	2.05
15 L 757	TVL-1820	40	475	1 1/2x2"	1.47
15 L 470	TVL-1705	10	450	1x2"	.91
15 L 886	TVL-1714	20	450	1x2"	1.06
15 L 887	TVL-1720	30	450	1x2 1/2"	1.21
15 L 473	TVL-1725	40	450	1x3"	1.15
16 L 434	TVL-1730	60	450	1 3/8x2 1/2"	1.53
16 L 217	TVL-1735	80	450	1 3/8x3 1/2"	1.79
15 L 525	TVL-1760	125	450	1 3/8x4"	2.26
16 L 509	TVL-1621	40	350	1x2"	1.18
15 L 754	TVL-1630	80	350	1 3/8x3"	1.68
15 L 799	TVL-1638	125	350	1 3/8x3 1/2"	2.32
16 L 601	TVL-1642	150	350	1 3/8x4"	2.60
16 L 204	TVL-1573	80	300	1x3 1/2"	1.50
15 L 753	TVL-1578	100	300	1x4"	1.71
16 L 603	TVL-1580	125	300	1 3/8x3 1/2"	2.06
16 L 205	TVL-1584	150	300	1 3/8x3 1/2"	2.06
16 L 602	TVL-1590	250	300	1 3/8x4"	3.26
15 L 797	TVL-1509	20	250	1x2"	.94
16 L 503	TVL-1519	40	250	1x2"	1.06
16 L 506	TVL-1535	100	250	1x3"	1.59
15 L 798	TVL-1540	150	250	1 3/8x2 1/2"	1.82
15 L 604	TVL-1547	350	250	1 3/8x3 1/2"	2.15
15 L 794	TVL-1415	50	150	1x2"	.97
15 L 750	TVL-1420	80	150	1x2 1/2"	1.09
16 L 605	TVL-1423	100	150	1x2 1/2"	1.18
16 L 606	TVL-1425	120	150	1x3 1/2"	1.26
16 L 190	TVL-1426	120	150	1 3/8x2 1/2"	1.26
16 L 218	TVL-1428	140	150	1x3"	1.26
16 L 607	TVL-1429	150	150	1x3"	1.26
15 L 795	TVL-1430	150	150	1 3/8x3"	1.26
16 L 219	TVL-1431	200	150	1 3/8x4"	1.44
15 L 796	TVL-1434	300	150	1 3/8x3 1/2"	1.65
16 L 500	TVL-1320	150	50	1 3/8x2 1/2"	1.06
15 L 793	TVL-1330	300	50	1 3/8x2 1/2"	1.56
15 L 792	TVL-1220	500	25	1x2"	1.50
16 L 220	TVL-1230	1000	25	1 3/8x2"	2.09
16 L 221	TVL-1258	2000	15	1 3/8x2"	2.03
16 L 200	TVL-1115	2000	6	1 3/8x2"	1.50

DUAL SECTION

16 L 442	TVL-2940	40-40	500	1 3/8x3"	2.53
16 L 480	TVL-2750	10-10	450	1x2"	1.12
16 L 192	TVL-2753	15-15	450	1x2 1/2"	1.32
16 L 440	TVL-2754	20-10	450	1x2 1/2"	1.32
15 L 481	TVL-2755	20-20	450	1x3"	1.50
16 L 191	TVL-2757	30-10	450	1x3"	1.41
15 L 897	TVL-2759	30-30	450	1 3/8x2 1/2"	1.79
16 L 199	TVL-2762	40-20	450	1 3/8x2 1/2"	1.91
15 L 477	TVL-2764	40-40	450	1 3/8x3"	2.03
16 L 241	TVL-2768	60-20	450	1 3/8x3"	2.09
16 L 209	TVL-2770	60-40	450	1 3/8x3 1/2"	2.32
15 L 898	TVL-2776	80-10	450	1 3/8x3"	2.12
16 L 197	TVL-2777	80-30	450	1 3/8x3"	2.47
16 L 194	TVL-2778	40-10	450-350	1 3/8x2 1/2"	1.53
16 L 439	TVL-2677	80-60	400	1 3/8x4"	2.76
16 L 438	TVL-2656	80-80	400-200	1 3/8x3 1/2"	2.32
16 L 193	TVL-2628	30-30	350	1x3"	1.71
16 L 195	TVL-2639	100-60	350	1 3/8x3 1/2"	2.82
16 L 762	TVL-2585	80-80	300	1 3/8x3 1/2"	2.38
16 L 207	TVL-2515	20-20	250	1x2"	1.12
15 L 894	TVL-2520	40-40	250	1x3 1/2"	1.47
16 L 225	TVL-2535	150-150	250	1 3/8x4"	3.03
16 L 608	TVL-2442.1	80-50	150	1x2 1/2"	1.41
15 L 483	TVL-2415	20-20	150	1x2"	1.00
15 L 890	TVL-2422	30-30	150	1x2"	1.09
15 L 468	TVL-2425	40-20	150	1x2"	1.09
15 L 891	TVL-2428	40-40	150	1x2 1/2"	1.12
15 L 893	TVL-2432	50-30	150	1x2 1/2"	1.18
15 L 484	TVL-2435	50-50	150	1x2 1/2"	1.26
15 L 892	TVL-2438	60-60	150	1x3 1/2"	1.38
15 L 893	TVL-2442	80-40	150	1 3/8x2 1/2"	1.35
16 L 221	TVL-2444	200-5	150	1 3/8x3"	1.59
16 L 512	TVL-2445	200-125	150	1 3/8x3 1/2"	2.20
16 L 511	TVL-2320	50-50	50	1x2"	1.00
15 L 761	TVL-2160	1000-1000	15	1x3 1/2"	2.59

TRIPLE SECTION

16 L 227	TVL-3952	10-10-10	500	1x3"	1.59
16 L 228	TVL-3965	40-40-10	500	1 3/8x3 1/2"	2.97
15 L 969	TVL-3840	30-30-20	475	1 3/8x3"	2.62
16 L 559	TVL-3843	40-30-30	475	1 3/8x4"	3.03
16 L 226	TVL-3822	20-20-60	475-475-450	1 3/8x4"	2.85
15 L 478	TVL-3776	10-10-10	450	1x3"	1.53
15 L 479	TVL-3779	20-10-10	450	1x3"	1.71
15 L 965	TVL-3780	20-20-20	450	1 3/8x2 1/2"	2.12
15 L 966	TVL-3782	30-30-30	450	1 3/8x3 1/2"	2.56
16 L 477	TVL-3784	40-30-20	450	1 3/8x3"	2.53
15 L 778	TVL-3785	40-40-10	450	1 3/8x3 1/2"	2.44
16 L 229	TVL-3786	40-40-20	450	1 3/8x3"	2.62
15 L 967	TVL-3787	40-40-40	450	1 3/8x3 1/2"	2.88

TRIPLE SECTION (cont'd)

16 L 554	TVL-3789	60-20-20	450	1 3/8x3"	2.70
16 L 555	TVL-3790	60-30-10	450	1 3/8x3"	2.65
16 L 136	TVL-3791	60-40-20	450	1 3/8x3 1/2"	2.94
16 L 137	TVL-3793	80-40-20	450	1 3/8x4"	3.18
15 L 773	TVL-3761	40-10-80	450-450-200	1 3/8x4"	2.29
15 L 963	TVL-3764	40-40-100	450-450-200	1 3/8x4"	2.91
15 L 962	TVL-3758	40-40-40	450-450-150	1 3/8x3 1/2"	2.44
16 L 146	TVL-3757	80-20-100	450-450-50	1 3/8x4"	2.82
15 L 490	TVL-3731	10-10-20	450-450-25	1x2 1/2"	1.41
15 L 213	TVL-3735	20-10-20	450-450-25	1x3"	1.59
15 L 485	TVL-3739	20-20-20	450-450-25	1x3"	1.79
15 L 961	TVL-3741	30-30-20	450-450-25	1 3/8x2 1/2"	2.09
16 L 474	TVL-3744	40-40-20	450-450-25	1 3/8x3"	2.29
16 L 445	TVL-3724	20-40-10	450-350-350	1 3/8x2 1/2"	2.06
16 L 544	TVL-3723	30-40-50	450-350-25	1x3"	1.65
16 L 223	TVL-3712	10-80-80	450-250-250	1 3/8x4"	2.44
16 L 222	TVL-3706	40-40-130	450-150-50	1 3/8x3"	2.18
16 L 474	TVL-3689.3	100-10-80	400-400-350	1 3/8x4"	3.59
15 L 426	TVL-3678	20-20-20	400-400-25	1x3"	1.68
16 L 538	TVL-3640	60-40-20	350	1 3/8x4"	2.50
15 L 957	TVL-3630	15-10-20	350-350-25	1x2 1/2"	1.47
16 L 449	TVL-3639.2	60-60-20	350-350-200	1 3/8x4"	3.23
16 L 609	TVL-3635	20-20-20	350-350-25	1x2 1/2"	1.71
15 L 958	TVL-3634	20-10-20	350-350-25	1x2 1/2"	1.50
16 L 448	TVL-3636.8	200-10-50	350-350-25	1 3/8x4"	3.09
16 L 211	TVL-3620	30-30-20	350-300-25	1x3"	1.85
16 L 233	TVL-3588	10-10-10	300	1x2"	1.41
15 L 955	TVL-3585	110-30-20	300	1x3"	3.44
15 L 955	TVL-3540	40-20-20	250	1x3 1/2"	2.16
16 L 529	TVL-3513	30-30-20	250-250-25	1x3"	1.65
16 L 446	TVL-3471	80-10-20	200-200-50	1x3"	1.65
16 L 138	TVL-3461.4	60-200-140	200-150-150	1 3/8x4"	2.82
16 L 139	TVL-3448	120-80-40	150	1 3/8x3 1/2"	2.23
15 L 493	TVL-3433	20-20-20	150	1x2 1/2"	1.35
15 L 952	TVL-3437	40-20-20	150	1x2 1/2"	1.41
15 L 421	TVL-3440	40-40-40	150	1x3 1/2"	1.53
15 L 953	TVL-3442	50-50-50	150	1x3"	1.76
16 L 445	TVL-3444	80-40-20	150	1x3"	1.71
16 L 224	TVL-3450	200-100-60	150	1 3/8x3 1/2"	2.68
16 L 210	TVL-3422	40-20-20	150-150-25	1x2 1/2"	1.35
16 L 444	TVL-3426	40-40-20	150-150-25	1x2 1/2"	1.41
16 L 447	TVL-3427	50-30-100	150-150-25	1x3"	1.59
15 L 951	TVL-3430	50-50-20	150-150-25	1x3"	1.56
16 L 525	TVL-3210	20-20-20	25	1x2"	1.15

QUADRUPLE SECTION

16 L 125	TVL-4940	10-10-10-10	500	1 3/8x2"	2.06
16 L 599	TVL-4917	10-10-150-30	500-450-50-50	1 3/8x2 1/2"	2.47
16 L 788	TVL-4840	40-20-10-10	475	1 3/8x3"	3.00
16 L 587	TVL-4827	50-30-10-20	475-475-475-300	1 3/8x3 1/2"	3.29
16 L 585	TVL-4815	15-15-80-40	475-475-300-50	1 3/8x3"	2.82
16 L 584	TVL-4811	10-60-30-125	475-450-400-50	1 3/8x4"	3.26
16 L 583	TVL-4800	20-40-100-80	475-300-50-25	1 3/8x3"	2.62
15 L 488	TVL-4760	10-10-10-10	450	1 3/8x2"	1.97
15 L 979	TVL-4763	20-20-20-20	450	1 3/8x3"	2.76
16 L 598	TVL-4773	40-40-20-20	450	1 3/8x4"	3.26
16 L 147	TVL-4774	40-40-30-30	450	1 3/8x4"	3.56
16 L 612	TVL-4775	40-40-40-40	450	1 3/8x4"	3.79
16 L 148	TVL-4783	80-10-10-10	450	1 3/8x4"	2.97
16 L 581	TVL-4747	40-40-10-100	450-450-400-100	1 3/8x3 1/2"	3.26
16 L 579	TVL-4742	30-30-15-30	450-450-450-50	1 3/8x3"	2.63
16 L 580	TVL-4745	40-40-10-25	450-450-450-50	1 3/8x3 1/2"	2.76
15 L 495	TVL-4723	10-10-10-20	450-450-450-25	1 3/8x2"	1.85
16 L 126	TVL-4724.2	20-20-20-20	450-450-450-25	1 3/8x2 1/2"	2.44
15 L 978	TVL-4734	40-30-10-20	450-450-450-25	1 3/8x3 1/2"	2.65
16 L 578	TVL-4736	40-40-10-20	450-450-450-25	1 3/8x3 1/2"	2.76
16 L 216	TVL-4739	40-40-40-40	450-450-450-25	1 3/8x4"	3.23
15 L 889	TVL-4732	40-20-20-40	450-450-450-25	1 3/8x3"	2.73
16 L 611	TVL-4720	40-40-30-30	450-450-350-350	1 3/8x4"	3.47
16 L 127	TVL-4710.2	80-10-40-30	450-400-300-300	1 3/8x4"	3.41
16 L 597	TVL-46				

Sprague & Condenser Products Capacitors



SPRAGUE "CERA-MITE" DISC CERAMIC CAPACITORS

Ultra-compact ceramic disc capacitors. In EIA (RETMA) and other popular values. High by-pass efficiency in critical circuits. Moisture-proof coating. Tolerances: 1000 WVDC types = ±20%; 3000 WVDC types 1.5 mfm, = 25 mfm; 4.7 mfm, = 5 mfm; thru 68 mfm, = 10%; thru 500 mfm, = 20%. All capacitors are "tagged" for easy identification. Shpg. wt., 2 oz.

SERIES 5GA 1000 WVDC

*Designations Mfd.					
No.	Type	Mmf	No.	Type	Mmf
16 L 300	V6	5	16 L 330	T25	250
16 L 301	V7	6	16 L 331	T27	270
16 L 302	V75	7.5	16 L 332	T3	300
16 L 303	V8	8	16 L 333	T33	330
16 L 304	Q1	10	16 L 334	T35	350
16 L 305	Q12	12	16 L 335	T36	360
16 L 306	Q15	15	16 L 336	T39	390
16 L 307	Q18	18	16 L 337	T4	400
16 L 308	Q2	20	16 L 338	T47	470
16 L 309	Q22	22	16 L 339	T5	500
16 L 310	Q25	25	16 L 340	T56	560
16 L 311	Q27	27	16 L 341	T6	600
16 L 312	Q3	30	16 L 342	T68	680
16 L 313	Q33	33	16 L 343	T73	730
16 L 314	Q39	39	16 L 344	T8	800
16 L 315	Q47	47	16 L 345	T82	820
16 L 316	Q5	50	16 L 346	D1	.001*
16 L 317	Q56	56	16 L 347	D12	.0012*
16 L 318	Q68	68	16 L 348	D13	.0013*
16 L 319	Q75	75	16 L 349	D15	.0015*
16 L 320	Q82	82	16 L 350	D16	.0016*
16 L 321	Q91	91	16 L 351	D18	.0018*
16 L 322	T1	100	16 L 352	D2	.0020*
16 L 323	T12	120	16 L 353	D22	.0022*
16 L 324	T13	130	16 L 354	D25	.0025*
16 L 325	T15	150	16 L 355	D27	.0027*
16 L 326	T18	180	16 L 356	D3	.0030*
16 L 327	T2	200	16 L 357	D33	.0033*
16 L 328	T22	220	16 L 358	D39	.0039*
16 L 329	T24	240	16 L 359	D4	.0040*

NET EACH.....15c

No.	Type	Mfd.	EACH
16 L 360	D43	.0043	18c
16 L 361	D47	.0047	
16 L 362	D5	.005	
16 L 363	S1	.01	
16 L 364	S2	.02	

SERIES 30GA 3000 WVDC

No.	Type	Mmf	EACH
16 L 387	V15	1.5	24c
16 L 370	V47	4.7	
16 L 371	O1	10	
16 L 372	O12	12	
16 L 373	O15	15	
16 L 374	O25	25	24c
16 L 375	O3	30	
16 L 389	O39	39	
16 L 375	O5	50	
16 L 390	O6	60	
16 L 376	O68	68	24c
16 L 377	T1	100	
16 L 378	T12	120	
16 L 379	T15	150	
16 L 380	T18	180	
16 L 381	T2	200	24c
16 L 382	T22	220	
16 L 383	T25	250	
16 L 384	T27	270	
16 L 385	T3	300	
16 L 386	T5	500	

SINGLE AND DUAL HIGH-K TYPES

SERIES 5HK 1000 WVDC

15 L 672	D5	.002 mfd	15c
15 L 673	D2	.005 mfd	15c
15 L 674	S1	.010 mfd	18c
15 L 675	2D1	2x.001 mfd	24c
15 L 676	2D2	2x.0015 mfd	24c
15 L 677	2D12	2x.002 mfd	24c
15 L 678	2D4	2x.004 mfd	26c

MINIATURIZED DISC CERAMICS

Excellent for Transistorized Circuits

SPRAGUE 1 Type TG. Designed for circuits requiring extremely small components. Ideal for printed circuits, resistor-type radios, etc. Provides very dependable service in bypass and coupling applications. Capacitors are covered with an exceptionally tough, protective coating that assures top performance despite conditions of heavy humidity. All rated at 50 working volts, DC. Tolerance of +80% to -20% except *+80% to -30%.

No.	Type	Mfd	Dia.	Wt.	EA.
15 L 995	D50	.005	3/16"	2 oz.	26c
15 L 996	S10	.01	3/8"	3 oz.	38c
15 L 997	S3	.025	1/2"	3 oz.	38c
15 L 998	S50	.05	1 1/2"	3 oz.	41c
15 L 999	P10	.1	3/4"	4 oz.	53c

TYPE NPO CERAMICS

Zero temperature-coefficient capacitors. 500 WVDC. Discs, except *rectangular. Wt., 2 oz.

No.	Type	Mmf	EACH
16 L 450	STCCB-V1*	1.0	29c
16 L 451	STCCB-V15*	1.5	
16 L 452	STCCB-V22*	2.2	
16 L 453	STCCB-V33*	3.3	
16 L 454	STCCB-V47*	4.7	
16 L 455	STCCB-V68*	6.8	32c
16 L 456	STCC-O1	10.0	
16 L 457	STCC-O15	15.0	
16 L 458	STCC-O2	20.0	
16 L 459	STCC-O22	22.0	
16 L 460	STCC-O25	25.0	35c
16 L 461	STCC-O33	33.0	
16 L 462	STCC-O39	39.0	
16 L 463	STCC-O47	47.0	
16 L 464	STCC-O5	50.0	
16 L 465	STCC-O68	68.0	41c
16 L 466	STCC-O75	75.0	
16 L 467	STCC-T1	100.0	
16 L 468	STCC-T12	120.0	
16 L 469	STCC-T15	150.0	
16 L 470	STCC-T175	175.0	47c
16 L 471	STCC-T22	220.0	
16 L 472	STCC-T27	270.0	

TYPE N750 CERAMICS

A negative temperature coefficient capacitor with a negative change of 750 parts per million per degree Centigrade. 500 WVDC. Discs, except *rectangular. Shpg. wt. 2 oz.

No.	Type	Mmf	EACH
16 L 480	STCUB-V5*	5	29c
16 L 481	STCU-O1	10	
16 L 482	STCU-O15	15	
16 L 483	STCU-O2	20	
16 L 484	STCU-O22	22	
16 L 485	STCU-O25	25	29c
16 L 486	STCU-O33	33	
16 L 487	STCU-O47	47	
16 L 488	STCU-O5	50	
16 L 489	STCU-O75	75	
16 L 490	STCU-T1	100	29c
16 L 491	STCU-T15	150	
16 L 492	STCU-T2	200	
16 L 493	STCU-T22	220	
16 L 494	STCU-T33	330	

TYPE BL DISC CERAMICS

New 2000 WVDC disc ceramic capacitors for buffer applications. Tiny, rugged construction. Moisture-proof coating assures high dependability. Fit into tight spaces. Tol., = 20%. Av. shpg. wt., 2 oz.

No.	Type	Mfd	EACH
16 L 290	BL-D10	.001	21c
16 L 291	BL-D20	.002	
16 L 292	BL-D30	.003	
16 L 293	BL-D50	.004	
16 L 294	BL-D50	.005	
16 L 295	BL-D60	.006	21c
16 L 296	BL-D70	.007	
16 L 297	BL-D75	.0075	
16 L 298	BL-D80	.008	
16 L 299	BL-S10	.01	

UNIVERSAL CERAMIC CAPACITORS

Highly versatile, 4-lead ceramic type capacitors. Provide maximum coverage with minimum stock. Ideal for use by service-men, experimenters, etc. Offer a large variety of odd and popular ratings—simply wire leads in various combinations. With complete instructions on how to select the desired capacitance. *Guaranteed minimum value; UGA-1 and UGA-2 have tolerance of = 20%. Rated at 500 WVDC. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Capacity Range, Mfd	Size	NET EACH
15 L 216	*UHK-1	.001-.004	25x22x3/4x3/32"	29c
15 L 217	*UHK-2	.0025-.015	1 1/2x1 1/2x3/32"	35c
15 L 218	UGA-1	.0004-.0013	25x22x3/4x3/32"	29c
15 L 219	UGA-2	.0006-.0027	1 1/2x1 1/2x3/32"	35c

UNIVERSAL CERAMIC CAPACITOR KIT

Kit CK-4. New, universal multi-purpose capacitor kit. Holds 90% of all common ceramic, molded tubular, and mica replacements in bypass and coupling circuits. Includes 3 each: UHK-1, UHK-2, UGA-1 and UGA-2. Supplied with detailed instructions. 3 1/2x8 1/2". Shpg. wt., 3 oz.
18 L 712. NET EACH.....3.88

For Precision Applications



CONDENSER PRODUCTS CO.

SILICONE-FILLED GLASSMIKES

Type ASG. An excellent selection of silicone impregnated and filled capacitors. Carefully designed for precision applications. Ideal for electronic computer, Geiger counter, electrometer, oscilloscope or high temperature AC and DC circuits, etc. Also excellent for low current power supply filters as well as audio coupling and by-pass networks. Metal ferrules soldered to silver end bands are fused to each end of heavily walled glass tubes. Vacuum tight and fungus proof. Ample flash-over spacing is provided between silver bands for sea level operations. Tolerance, = 10%. Temperature range, to 85°C. All have 8-32 screw terminals. *Tinned copper leads, 2 1/4" long. No. 18 gauge. 150°C test voltage rated for 1 minute. Peak ripple voltage plus the DC voltage should not exceed rated voltage. Av. shpg. wt., 6 oz.

1000 WORKING VOLTS

Stock No.	Mfr's Type	Mfd.	Size	NET EACH		
				1-9	10-49	50-249
10 L 900	502*	.005	1 3/4x1 1/2x1/2"	1.71	1.43	1.28
10 L 902	203*	.02	1 3/4x1 1/2x1/2"	1.71	1.43	1.28
10 L 903	503	.05	1 3/4x1 1/2x1/2"	1.85	1.54	1.39
10 L 904	104	.1	2 1/4x1 1/2x1/2"	1.85	1.54	1.39
10 L 905	254	.25	2 1/4x2x3/2"	1.85	1.54	1.39

2000 WORKING VOLTS

Stock No.	Mfr's Type	Mfd.	Size	NET EACH		
				1-9	10-49	50-249
10 L 906	202*	.002	1 3/4x1 1/2x1/2"	1.71	1.43	1.28
10 L 907	502*	.005	1 3/4x1 1/2x1/2"			
10 L 908	103*	.01	1 3/4x1 1/2x1/2"			
10 L 909	203*	.02	1 3/4x1 1/2x1/2"	1.85	1.54	1.39
10 L 910	503	.05	1 3/4x1 1/2x1/2"			
10 L 911	104	.1	2 1/4x1 1/2x1/2"			
10 L 912	254	.25	2 1/4x2x3/2"			
10 L 913	104	.1	2 1/4x1 1/2x1/2"			

3000 WORKING VOLTS

Stock No.	Mfr's Type	Mfd.	Size	NET EACH		
				1-9	10-49	50-249
10 L 913	102*	.002	1 3/4x1 1/2x1/2"	2.45	2.04	1.84
10 L 914	202*	.005	1 3/4x1 1/2x1/2"	2.45	2.04	1.84
10 L 915	502*	.005	1 3/4x1 1/2x1/2"	2.45	2.04	1.84
10 L 916	103*	.01	1 3/4x1 1/2x1/2"	2.55	2.13	1.91
10 L 917	203	.02	1 3/4x1 1/2x1/2"	2.97	2.48	2.23
10 L 918	503	.05	2 1/4x2x3/2"	3.27	2.73	2.45
10 L 919	104	.1	2 1/4x2x3/2"	3.60	3.00	2.70

5000 WORKING VOLTS

10 L 920	102*	.001	1 3/4x1 1/2x1/2"	3.78	3.15	2.83
10 L 921	103	.01	1 3/4x1 1/2x1/2"	4.08	3.40	3.06
10 L 922	203	.02	2 1/4x1 1/2x1/2"	4.32	3.60	3.24
10 L 923	503	.05	2 1/4x2x3/2"	4.56	3.80	3.42
10 L 924	104	.1	2 1/4x1 1/2x1/2"	5.10	4.25	3.83

10000 WORKING VOLTS

10 L 925	102*	.001	1 3/4x1 1/2x1/2"	3.90	3.25	2.93
10 L 926	202*	.002	1 3/4x1 1/2x1/2"	4.08	3.40	3.06
10 L 927	502	.005	1 3/4x1 1/2x1/2"	4.50	3.75	3.38
10 L 928	103	.01	2 1/4x1 1/2x1/2"	4.50	3.75	3.38
10 L 929	203	.02	2 1/4x2x3/2"	5.16	4.30	3.87
10 L 930	503	.05	2 1/4x2x3/2"	4.20	3.50	3.15
10 L 931	104	.1	3 1/2x1 1/2x1/2"	7.50	6.25	5.63
10 L 932	204	.2	1 7/8x1 1/2x1/2"	8.64	7.20	6.48

10,000 WORKING VOLTS

10 L 933	501*	.0005	1 3/4x1 1/2x1/2"	4.20	3.50	3.15
10 L 934	102*	.001	1 3/4x1 1/2x1/2"	4.32	3.60	3.24
10 L 935	202*	.002	1 3/4x1 1/2x1/2"	4.44	3.70	3.33
10 L 936	502	.005	1 3/4x1 1/2x1/2"	5.10	4.25	3.83
10 L 937	103	.01	3 1/2x2x3/2"	5.52	4.60	4.14
10 L 938	203	.02	2 1/4x2x3/2"	6.24	5.20	4.74
10 L 939	503	.05	2 1/4x2x3/2"	8.76	7.30	6.57
10 L 960	603	.06	4 1/4x1 1/2x1/2"	10.50	8.75	7.88

20,000 WORKING VOLTS

10 L 940	501*	.0005	2 1/4x1 1/2x1/2"	10.80	9.00	8.10
10 L 941	102	.001	3 1/2x1 1/2x1/2"	11.40	9.50	8.55
10 L 942	202	.002	3 1/2x1 1/2x1/2"	12.60	10.50	9.45
10 L 943	502	.005	3 1/			

Aerovox Capacitors

TYPE AEP PLUG-IN ELECTROLYTIC CAPACITORS

Plug-in type 1, 2 and 3-section electrolytic capacitors. Designed for continuous service applications; quickly changed by simply plugging in a new unit. Insulated, tube-type bases fit all standard octal sockets. Keyed guide pins insure correct installation and polarity. Vented for safety; etched aluminum foil construction. Common neg. Av. wt., 5 oz.



SINGLE SECTION

No.	Type	Mfd.	W.V.	Size	NET
13 L 035	2J	10	450	1 1/2 x 2 1/2	2.38
13 L 037	4J	20	450	1 1/2 x 2 1/2	2.53
13 L 038	6J	30	450	1 1/2 x 2 1/2	2.62
13 L 039	8J	40	450	1 1/2 x 2 1/2	2.68
13 L 040	16J	80	450	1 1/2 x 3 1/2	3.26
13 L 041	2L	10	600	1 1/2 x 4 1/2	2.47

DUAL SECTION

No.	Type	Mfd.	W.V.	Size	NET
13 L 044	22J	10-10	450	1 1/2 x 2 1/2	2.59
13 L 045	44J	20-20	450	1 1/2 x 2 1/2	2.97
13 L 046	88J	40-40	450	1 1/2 x 3 1/2	3.52

TRIPLE SECTION

No.	Type	Mfd.	W.V.	Size	NET
13 L 047	222J	10-10-10	450	1 1/2 x 2 1/2	3.00
13 L 048	444J	20-20-20	450	1 1/2 x 3 1/2	3.59

SRE BANTAM ELECTROLYTICS METAL CASED TUBULARS

Extremely small dry electrolytic capacitors for portable and miniature equipment. Sealed-in tubular aluminum cases are protected by external wax-impregnated cardboard insulating tubes. Shpg. wt., 2 oz.



No.	Mfd.	Volts	Size	NET
13 L 830	5	150	3/8 x 1"	.59
13 L 831	10	150	3/8 x 1 1/8"	.62
13 L 832	15	150	1/2 x 1 1/8"	.68
13 L 819	20	150	1/2 x 1 1/8"	.71
13 L 833	25	150	1/2 x 1 1/8"	.73
13 L 847	1	50	3/8 x 1"	.53
13 L 848	2	50	3/8 x 1"	.53
13 L 849	5	50	3/8 x 1"	.59
13 L 827	10	50	3/8 x 1"	.59
13 L 828	15	50	3/8 x 1 1/8"	.59
13 L 829	25	50	1/2 x 1"	.62
13 L 844	5	25	3/8 x 1"	.59
13 L 845	10	25	3/8 x 1"	.59
13 L 846	15	25	3/8 x 1"	.59
13 L 824	25	25	3/8 x 1"	.59
13 L 825	50	25	1/2 x 1"	.65
13 L 826	100	25	1/2 x 1 1/8"	.65
13 L 821	50	12	3/8 x 1 1/8"	.59
13 L 822	100	12	1/2 x 1"	.71
13 L 823	200	12	1/2 x 1 1/8"	.79
13 L 841	5	6	3/8 x 1"	.47
13 L 842	5	6	3/8 x 1"	.50
13 L 838	50	6	3/8 x 1"	.56
13 L 820	150	6	1/2 x 1 1/8"	.79
13 L 843	250	6	1/2 x 1 1/8"	.79
13 L 839	25	3	3/8 x 1"	.50
13 L 840	50	3	3/8 x 1"	.50
13 L 834	100	3	3/8 x 1"	.65
13 L 835	200	3	3/8 x 1 1/8"	.68
13 L 836	300	3	1/2 x 1 1/8"	.76
13 L 837	500	3	1/2 x 1 1/8"	.82

XPP MINIATURIZED METAL-CASED ELECTROLYTICS

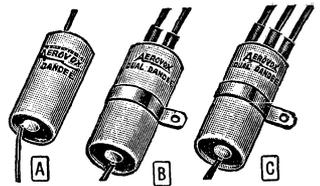
Miniature, hermetic airtight sealed metal-cased tubular aluminum electrolytic capacitors. Ideal for all transistorized assemblies where space limitations are present. Feature extended life, and provide for relatively high capacitance values at low voltage. Tolerance: -10% +250%. Operating temperature range: -20 to +65°C. Av. shpg. wt., 2 oz.



Stock No.	Mfd.	W.V./DC	Size	NET EACH
18 L 829	6	3	3/16 x 1/2"	73c
18 L 830	25	3	1/4 x 3/4"	73c
18 L 831	100	3	1/4 x 3/4"	73c
18 L 832	100	3	3/8 x 3/4"	82c
18 L 833	1	6	3/16 x 1/2"	73c
18 L 834	2	6	3/16 x 1/2"	73c
18 L 835	3	6	3/16 x 1/2"	73c
18 L 836	4	6	3/16 x 1/2"	73c
18 L 838	8	6	3/16 x 1/2"	79c
18 L 839	10	6	3/16 x 1/2"	79c
18 L 840	15	6	1/4 x 3/4"	79c
18 L 848	5	12	3/16 x 1/2"	79c
18 L 849	10	12	1/4 x 5/8"	79c
18 L 850	5	25	1/4 x 3/4"	82c
18 L 851	6	25	1/4 x 3/4"	82c
18 L 852	10	25	3/8 x 3/4"	85c
18 L 853	15	25	3/8 x 3/4"	85c

PRS MINIATURE ELECTROLYTICS

Extremely compact high-quality tubular electrolytics in metal cans with cardboard sleeves. Ideally suited to a wide variety of applications where space is at a premium, and dependable service is required. Negative leads are connected to aluminum cans. Dual and triple-section types have common negative leads. Single-section capacitors have bare, tinned copper leads, 3" long. Dual and triple-section types have flexible stranded-copper leads, 5" long, with insulating sleeves. Av. shpg. wt. conservatively rated for temperatures to 85°C. Av. shpg. wt., 4 oz.



A—SINGLE SECTION

Stock No.	Mfd	Volts	Size	NET EACH
13 L 639	8	700	1 1/2 x 3 1/4"	1.29
13 L 640	10	700	1 1/2 x 3 1/4"	1.38
12 L 623	12	700	1 1/2 x 3 1/4"	1.44
13 L 632	16	700	1 1/2 x 3 1/4"	1.56
13 L 632	8	600	1 1/2 x 3 1/4"	1.29
13 L 633	10	600	1 1/2 x 3 1/4"	1.29
13 L 634	12	600	1 1/2 x 3 1/4"	1.41
13 L 635	16	600	1 1/2 x 3 1/4"	1.50
12 L 617	1	450	3/8 x 1 1/4"	.64
12 L 618	2	450	3/8 x 1 1/4"	.64
13 L 385	4	450	1 1/2 x 1 1/2"	.68
13 L 386	8	450	1 1/2 x 1 1/2"	.73
13 L 394	10	450	1 1/2 x 1 1/2"	.76
13 L 387	12	450	1 1/2 x 1 1/2"	.79
13 L 388	16	450	1 1/2 x 1 1/2"	.82
13 L 389	20	450	1 1/2 x 1 1/2"	.91
13 L 396	30	450	1 1/2 x 2 1/4"	1.06
12 L 619	50	450	1 1/2 x 3 1/4"	1.23
12 L 620	60	450	1 1/2 x 3 1/4"	1.38
12 L 621	80	450	1 1/2 x 3 3/4"	1.65
12 L 622	100	450	1 1/2 x 3 3/4"	1.88
12 L 612	10	350	1 3/8 x 1 3/4"	.73
13 L 403	16	350	1 3/8 x 1 3/4"	.82
13 L 404	24	350	1 3/8 x 1 3/4"	.91
12 L 613	30	350	1 3/8 x 2 1/4"	.97
12 L 614	40	350	1 3/8 x 2 1/4"	1.03
12 L 615	50	350	1 3/8 x 2 1/4"	1.06
12 L 616	60	350	1 3/8 x 2 1/4"	1.15
13 L 410	4	250	1 1/2 x 1 1/4"	.59
13 L 411	8	250	1 1/2 x 1 1/4"	.68
13 L 412	12	250	1 1/2 x 1 1/4"	.73
13 L 413	16	250	1 1/2 x 1 1/4"	.76
13 L 414	20	250	1 1/2 x 1 1/4"	.79
12 L 608	30	250	1 1/2 x 2 1/4"	.85
12 L 609	40	250	1 1/2 x 2 1/4"	.91
12 L 610	50	250	1 1/2 x 2 1/4"	1.00
13 L 390	60	150	9/16 x 1 1/4"	1.06
13 L 431	8	150	1 1/2 x 1 1/4"	.62
13 L 425	10	150	1 1/2 x 1 1/4"	.62
13 L 432	12	150	1 1/2 x 1 1/4"	.65
13 L 433	16	150	1 1/2 x 1 1/4"	.68
13 L 434	20	150	1 1/2 x 1 1/4"	.71
13 L 434	24	150	1 1/2 x 1 1/4"	.73
13 L 435	30	150	1 1/2 x 1 1/2"	.76
13 L 436	40	150	1 1/2 x 1 1/2"	.79
13 L 441	50	150	1 1/2 x 1 1/2"	.82
13 L 437	60	107	1 1/2 x 1 1/2"	.84
13 L 426	80	150	1 1/2 x 2 1/4"	.94
13 L 427	100	150	1 1/2 x 2 1/4"	1.02
13 L 428	150	150	1 1/2 x 3"	1.12
13 L 450	10	50	3/8 x 1 1/4"	.59
13 L 856	20	50	1 1/2 x 1 1/4"	.59
13 L 451	25	50	1 1/2 x 1 1/4"	.62
13 L 452	50	50	1 1/2 x 1 3/4"	.71
13 L 453	100	50	1 1/2 x 1 3/4"	.82
13 L 605	150	50	1 1/2 x 1 3/4"	.91
13 L 606	250	50	1 1/2 x 1 3/4"	1.03
13 L 460	10	25	9/16 x 1 1/4"	.59
13 L 858	16	25	3/8 x 1 1/4"	.59
13 L 461	25	25	3/8 x 1 1/4"	.59
13 L 462	50	25	1 1/2 x 1 1/4"	.79
13 L 463	100	25	1 1/2 x 1 1/4"	.79
12 L 604	250	25	1 1/2 x 2 1/4"	1.00

A—SINGLE SECTION (Cont'd)

Stock No.	Mfd	Volts	Size	NET EACH
13 L 857	500	25	1 1/2 x 2 1/2"	1.35
13 L 860	100	12	1 1/2 x 1 3/4"	.85
13 L 859	500	12	1 1/2 x 2 1/4"	1.00
12 L 603	1000	12	1 1/2 x 3 1/4"	1.32
12 L 600	100	6	1 1/2 x 1 1/4"	.71
13 L 864	500	6	1 1/2 x 1 3/4"	.91
13 L 863	1000	6	1 1/2 x 2 1/4"	1.12
13 L 862	2000	6	1 1/2 x 3 1/4"	1.35

B—DOUBLE SECTION

Stock No.	Mfd	Volts	Size	NET EACH
13 L 391	8-8	450	1 1/2 x 2 1/2"	1.00
13 L 392	8-16	450	1 1/2 x 2 1/2"	1.18
13 L 397	10-10	450	1 1/2 x 2 1/2"	1.09
12 L 638	16-16	450	1 1/2 x 2 1/4"	1.32
12 L 639	20-20	450	1 1/2 x 3 1/4"	1.47
12 L 640	30-30	450	1 1/2 x 3 1/4"	1.76
12 L 641	40-20	450	1 1/2 x 3 1/4"	1.73
13 L 851	40-40	450	1 1/2 x 4"	1.97
12 L 642	50-30	450	1 1/2 x 4"	2.00
12 L 635	10-10	250	1 1/2 x 1 3/4"	.97
12 L 636	16-16	250	1 1/2 x 2 1/4"	1.00
13 L 852	20-20	250	1 1/2 x 2 1/4"	1.32
13 L 853	30-30	250	1 1/2 x 2 1/4"	1.32
12 L 637	8-8	200	1 1/2 x 1 3/4"	.88
12 L 633	30-30	200	1 1/2 x 2 1/4"	1.26
13 L 337	8-8	150	1 1/2 x 1 1/4"	.88
13 L 339	20-20	150	1 1/2 x 1 3/4"	.97
12 L 625	20-30	150	1 1/2 x 2 1/4"	1.00
12 L 626	20-40	150	1 1/2 x 1 3/4"	1.03
12 L 627	30-30	150	1 1/2 x 1 3/4"	1.06
12 L 628	40-30	150	1 1/2 x 2 1/4"	1.06
13 L 442	40-40	150	1 1/2 x 2 1/4"	1.06
12 L 629	40-80	150	1 1/2 x 2 3/4"	1.29
12 L 659	50-30	150	1 1/2 x 2 1/4"	1.35
12 L 630	100-100	150	1 1/2 x 3 1/4"	1.88

C—TRIPLE SECTION

Stock No.	Mfd	Volts	Size	NET EACH
12 L 650	10-10-10	450	1 1/2 x 2 1/2"	1.44
12 L 665	20-20-20	450, 25	1 1/2 x 2 3/4"	1.71
13 L 855	20-20-20	150	1 1/2 x 1 3/4"	1.29
13 L 870	30-20-10	150	1 1/2 x 1 3/4"	1.26
12 L 643	30-30-20	150	1 1/2 x 1 3/4"	1.35
12 L 644	30-30-30	150		

Aerovox Capacitors



STANDARD INDUSTRIAL CAPACITORS



TYPE P92ZN METALLIZED-PAPER TUBULARS

High-quality capacitors of Aerolene-impregnated metallized-paper. Modified plastic tubular type. Paper cases with Duranite end seals. P92ZN capacitors are ideally suited for original or replacement use in radio and television receivers, amplifiers and other electronic equipment. Will withstand high temperatures. Operating range is -30 degrees C. to +100 degrees C. Tolerance of $\pm 20\%$ in all capacities and voltages. Sizes given are diameter and length. Av. shpg. wt., 2 oz.

No.	Mfd	Volts	Size	1-24, EA.
12 L 700	.01	200	3/8x3/8"	.42
12 L 701	.02	200	1/2x2 3/8"	.42
12 L 702	.03	200	1/2x2 3/8"	.44
12 L 703	.05	200	1/2x2 3/8"	.44
12 L 704	.1	200	9/16x2 3/8"	.46
12 L 705	.25	200	3/4x2 3/8"	.67
12 L 706	.5	200	13/16x1 1/2"	.78
12 L 707	1.0	200	5/8x1 1/2"	1.05
12 L 708	2.0	200	5/8x1 1/2"	1.42
12 L 709	.01	400	1/4x2 3/8"	.42
12 L 710	.02	400	5/8x2 3/8"	.44
12 L 711	.03	400	3/8x2 3/8"	.44
12 L 712	.05	400	3/8x2 3/8"	.46
12 L 713	.1	400	3/8x1 1/2"	.49
12 L 714	.25	400	3/8x1 1/2"	.73
12 L 715	.5	400	3/8x1 1/2"	.93
12 L 716	1.0	400	3/8x1 1/2"	1.29
12 L 717	2.0	400	13/16x2 3/8"	1.82
12 L 718	.01	600	9/16x2 3/8"	.44
12 L 719	.02	600	3/8x2 3/8"	.46
12 L 720	.03	600	13/16x2 3/8"	.49
12 L 721	.05	600	13/16x2 3/8"	.52
12 L 722	.1	600	13/16x1 1/2"	.57
12 L 723	.25	600	5/8x1 1/2"	.90
12 L 724	.5	600	11/16x1 1/2"	1.13
12 L 725	1.0	600	13/16x1 1/2"	1.40
12 L 726	2.0	600	13/16x2 3/8"	1.99

For OEM prices in quantity lots of 25-49 and 50-up, write our Industrial Division.

TYPES P30ZN AND P30Z "BATHTUB" CAPACITORS



Ruggedly constructed, dependable capacitors of metallized paper, Aerolene impregnated. In "bathtub" type metal housings. Vitrified ceramic or glass terminal seals offer high insulation. Operating temperature range from -55 degrees C. to +100 degrees C. at full rating. Can be operated at +125 degrees C. at 75 per cent of voltage rating. Standard tolerance of $\pm 20\%$. $\pm 55^\circ\text{C}$ to $+70^\circ\text{C}$. Av. wt., 4 oz.

No.	Mfd	Volts	Size (LWH)	1-24, EA.
12 L 750	3.0	150	1 3/4x1 3/4"	3.21
12 L 751	4.0	150	1 3/4x1 3/4"	3.87
12 L 987	4.0*	150	1 3/4x1 3/4"	3.58
12 L 752	5.0	150	1 3/4x1 3/4"	4.29
12 L 753	6.0	150	1 3/4x1 1/2x1 3/8"	4.48
12 L 754	8.0	150	2x1 3/4x3/4"	5.17
12 L 988	8.0*	150	2x1 3/4x3/4"	4.88
12 L 755	10.0	150	2x1 3/4x3/4"	5.96
12 L 989	10.0*	150	2x2x1 1/8"	5.66
12 L 756	12.0	150	2x2x1 7/8"	6.68
12 L 990	12.0*	150	2x2x1 1/8"	6.39
12 L 757	15.0	150	2x2x1"	8.08
12 L 761	1.0	200		2.80
12 L 991	1.0*	200	1 3/4x1 3/4"	2.51
12 L 762	2.0	200		3.46
12 L 992	2.0*	200		3.17
12 L 763	.1	400	1 3/4x1 3/4"	2.25
12 L 766	1.0	400	1 3/4x1 7/8"	2.90
12 L 993	1.0*	400	1 3/4x1 7/8"	2.61
12 L 767	2.0	400	1 3/4x1 3/4"	3.66
12 L 994	2.0*	400	2x1 3/4x1 7/8"	3.31
12 L 768	3.0	400	2x1 3/4x1 3/8"	4.13
12 L 995	3.0*	400	2x2x1 1/8"	4.87
12 L 769	4.0	400	2x2x1 1/8"	4.58
12 L 996	4.0*	400	2x2x1 1/4"	5.87
12 L 770	5.0	400	2x2x1 1/4"	5.87
12 L 771	.1	600	1 3/4x1 3/4"	2.32
12 L 772	.25	600	1 3/4x1 3/4"	2.41
12 L 774	1.0	600	1 3/4x1 1/2x7/8"	3.18
12 L 997	1.0*	600	1 3/4x1 1/2x7/8"	2.89
12 L 775	2.0	600	2x2x2 1/8"	3.77
12 L 998	2.0*	600	2x2x1"	3.48
12 L 776	3.0	600	2x2x1 1/8"	5.34
12 L 777	4.0	600	2x2x1 1/4"	6.40

For OEM prices in quantity lots of 25-49 and 50-up, write our Industrial Division.

TYPE P82Z AEROLITE METALLIZED-PAPER TUBULARS

Lightweight, metallized-paper tubular capacitors. Hyvol K impregnated units in moisture-resistant, wax-impregnated cardboard cases. Have "self-healing" characteristics for protection against surge voltages. Low power factor, less than 1%. Operate from -40° C. to 70° C. Av. shpg. wt., 2 oz.

No.	Mfd	Volts	Size	1-24, EA.
13 L 670	.01	200	3/8x3/8"	.42
13 L 671	.02	200	3/8x3/8"	.42
13 L 672	.03	200	3/8x3/8"	.44
13 L 673	.05	200	3/8x3/8"	.44
13 L 674	.1	200	3/8x3/8"	.46
13 L 675	.25	200	13/16x3/8"	.67
13 L 676	.5	200	13/16x1 1/8"	.78
13 L 677	1.0	200	5/8x1 1/8"	1.05
13 L 678	2.0	200	5/8x1 1/8"	1.42
13 L 679	.01	400	3/8x3/8"	.43
13 L 680	.02	400	3/8x3/8"	.44
13 L 681	.03	400	3/8x3/8"	.44
13 L 682	.05	400	3/8x3/8"	.46
13 L 683	.1	400	13/16x1 1/8"	.43
13 L 684	.25	400	13/16x1 1/8"	.73
13 L 685	.5	400	5/8x1 1/8"	1.05
13 L 686	1.0	400	5/8x1 1/8"	1.29
13 L 687	.01	600	3/8x3/8"	.44
13 L 688	.02	600	3/8x3/8"	.46
13 L 689	.03	600	13/16x3/8"	.49
13 L 690	.05	600	13/16x3/8"	.52
13 L 691	.1	600	13/16x1/4"	.57
13 L 692	.25	600	3/8x1 1/8"	.90
13 L 693	.5	600	5/8x1 1/8"	1.13
13 L 694	1.0	600	5/8x2 3/8"	1.40

For OEM prices in quantity lots of 25-49 and 50-up, write our Industrial Division.

TYPE P82Z MICROMINIATURE METALLIZED-PAPER TUBULARS

Ultra-small (resistor size); metallized dielectric. For replacement and original use as coupling and bypass capacitors in radio, TV and electronic equipment. Hyvol K impregnated, in moisture-resistant cases. Improved metallized foil serves as both dielectric and electrodes. Av. shpg. wt., 2 oz.

No.	Mfd	W.V.	Size	1-24, EA.
13 L 885	.005	200		.21
13 L 886	.01	200	3/16x3/16"	.21
13 L 887	.002	400		.21
13 L 888	.003	400		.26
13 L 889	.01	400	1/4x3/16"	.26
13 L 890	.0005	600		.21
13 L 891	.001	600	3/16x3/16"	.21
13 L 892	.002	600		.26
13 L 894	.0047	600	1/4x3/16"	.26
13 L 895	.005	600		.26
13 L 896	.0068	600		.26

For OEM prices in quantity lots of 25-49 and 50-up, write our Industrial Division.

TYPE JP30M HYVOL CAPACITORS

Hermetically sealed, immersion-proof bathtub style capacitors. With oil-impregnated, oil-filled, draw-in metal case. Bakelite insulators riveted to case. Ruggedly constructed for use under severe operating conditions. MIL type CP53, CP54, CP55. 600 WVDC. *Single; †dual section. Av. wt., 8 oz.

No.	Mfd	Size	1-9, EA.
13 L 950*	.05	1 3/4x1x3/4"	1.70
13 L 951*	.1	1 3/4x1x3/4"	1.74
13 L 952*	.25	1 3/4x1x1 1/8"	1.81
13 L 953*	.5	1 3/4x1x1"	1.93
13 L 954*	1.0	2x1 1/4x1"	2.25
13 L 955*	2.0	2x2x1 3/8"	3.00
13 L 956†	.05-.005	1 3/4x1x3/4"	2.32
13 L 957†	1-1	1 3/4x1x3/4"	2.39
13 L 958†	.25-.25	1 3/4x1x1"	2.46
13 L 959†	.5-.5	2x1 1/4x3/8"	2.76
13 L 960†	1.0-1.0	2x2x1 3/8"	3.37

For OEM prices in quantity lots of 10-24 and 25-up, write our Industrial Division.

TYPE P123ZG ULTRA-COMPACT METALLIZED-PAPER CAPACITORS

Ultra-compact P123ZG capacitors. Extremely small size makes them ideal for military and aircraft applications where minimum size and weight with maximum durability is required. Units are also well suited for replacement and original use in radio, television and electronic equipment. In hermetically sealed metal cans to withstand temperature extremes, moisture and heat. Temperature range: -55° C. to +70° C. at full voltage rating; to +100° C. at lower voltages. Tolerance: $\pm 20\%$ in all capacities and voltages. Av. shpg. wt., 2 oz.

No.	Mfd	Volts	Size	1-24, EA.
13 L 900	.001	200	1 1/4x3/8"	.95
13 L 901	.002	200	1 1/4x3/8"	.95
13 L 902	.003	200	1 1/4x3/8"	.96
13 L 903	.005	200	1 1/4x3/8"	.96
13 L 904	.01	200	1 1/4x3/8"	1.09
13 L 905	.047	200	1 5/8x2 3/8"	1.05
13 L 906	.050	200	1 5/8x2 3/8"	1.05
13 L 907	.068	200	3/4x2 3/8"	1.08
13 L 908	1.0	200	3/4x2 3/8"	1.11
13 L 909	.22	200	3/4x1 1/2"	1.13
13 L 910	.25	200	3/4x1 1/2"	1.24
13 L 911	.47	200	1 3/8x1 1/2"	1.33
13 L 912	.68	200	3/4x1 1/2"	1.40
13 L 913	1.0	200	3/4x1 1/2"	1.42
13 L 914	2.0	200	3/4x1 1/2"	2.33
13 L 915	.0005	400	1 1/4x3/8"	.99
13 L 916	.001	400	1 1/4x3/8"	.99
13 L 917	.002	400	1 1/4x3/8"	.99
13 L 919	.02	400	1 1/4x2 3/8"	1.05
13 L 920	.022	400	3/4x2 3/8"	1.06
13 L 921	.033	400	3/4x2 3/8"	1.06
13 L 922	.040	400	3/4x2 3/8"	1.06
13 L 923	.047	400	1 3/8x2 3/8"	1.06
13 L 924	.050	400	1 3/8x2 3/8"	1.06
13 L 926	1.0	400	1 3/8x1 1/2"	1.18
13 L 927	.15	400	1 3/8x1 1/2"	1.25
13 L 928	.22	400	3/4x1 1/2"	1.25
13 L 929	.25	400	3/4x1 1/2"	1.42
13 L 931	.47	400	3/4x1 1/2"	1.55
13 L 933	1.0	400	4 3/8x2 1/2"	1.92
13 L 934	.01	600	3/4x2 3/8"	1.08
13 L 936	1.0	600	1 1/2x1 1/4"	1.23
13 L 937	.25	600	3/4x1 1/4"	1.53
13 L 938	.50	600	4 3/8x1 1/2"	1.84
13 L 939	1.0	600	3/4x2 3/8"	2.10

For OEM prices in quantity lots of 25-up, write our Industrial Division.

TYPE P89ZXY SEALED METAL TUBULARS

Tubular Aerolites in hermetically sealed metal cases. Hyvol K or M impregnated. Have "self-healing" characteristic which assures full protection against voltage surges. Double-rubber bakelite terminal seals. For hard use under extreme conditions. Tolerance: $\pm 20\%$. Negative lead not connected to metal case. Av. shpg. wt., 2 oz.

No.	Mfd	Volts	Size	1-24, EA.
12 L 730	.25	200	1 1/2x1"	1.37
12 L 732	1.0	200	3/8x1 1/4"	1.77
12 L 733	2.0	200	3/8x2"	2.19
12 L 735	.05	400	7/16x1"	1.24
12 L 736	.1	400	7/16x1 3/8"	1.32
12 L 737	.25	400	3/8x1 3/8"	1.54
12 L 738	.5	400	3/8x2"	1.71
12 L 739	1.0	400	3/4x2 1/2"	2.17
12 L 740	2.0	400	1x2 1/2"	3.12
12 L 741	.01	600	3/8x1"	1.27
12 L 742	.02	600	3/8x1"	1.27
12 L 744	.05	600	7/16x1"	1.12
12 L 745	.1	600	3/4x1 1/2"	1.37
12 L 746	.25	600	3/8x1 1/2"	1.70
12 L 747	.5	600	3/4x2"	1.90
12 L 748	1.0	600	13/16x2 1/2"	2.49
12 L 749	2.0	600	1 1/4x2 1/2"	3.60

For OEM prices in quantity lots of 25-49 and 50-up, write our Industrial Division.

ROTATOR CAPACITORS

AC motor capacitors. 70 mfd., 50 v. AC. 7/8x3". *Solder lugs; 1 1/2" leads. 5 oz.

12 L 670. †Type XA4098A. NET
12 L 669. *Type XA4283. EACH... 73¢

INDUSTRIAL BUYERS:

Allied can make immediate shipment on all Aerovox, Cornell-DuSert, Sprague, and Mallory capacitors in industrial quantities and at OEM prices. Contact our Industrial Division for price quotations.

Aerovox Capacitors



MICA CAPACITORS

Extremely stable capacitors. Types 1468LS, 1467LS, 1469, 1464; Made to MIL-C-5A specs; 500 WVDC, except *300 WVDC; have $\pm 20\%$ tolerance, except 1464 and 1469 which are $\pm 5\%$. Types 1650L, 1651L, 1652L, 1445, 1446 and 1447: $\pm 10\%$ tolerance. Types 1445,

1446 and 1447: are $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{8}$ " lug terminals and $1\frac{1}{2}$ " centers; case styles are equivalent to CM45 and CM50 of MIL-C5A. Types 1650L, 1651L and 1652L are $1\frac{1}{4} \times 1\frac{1}{4} \times \frac{1}{8}$ "; have 6-32 screw terminals; $1\frac{1}{4}$ " centers. Av. shgp. wt.: 1.467LS, 1.468LS, 1.469 and 1.464, 2.0z.; others, 4.0z.

A TYPE 1468LS

Stock No.	Mmf	MIL No.	Size	NET EACH
12 L 468	5	CM-20B-050		
12 L 469	10	CM-20B-100		
12 L 470	20	CM-20B-200	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$ "	18c
12 L 471	24	CM-20B-240		
12 L 472	30	CM-20B-300		
12 L 473	50	CM-20B-500	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$ "	18c
12 L 474	82	CM-20B-820		12c
12 L 475	100	CM-20B-100		12c
12 L 476	150	CM-20B-151		12c
12 L 477	200	CM-20B-201		15c
12 L 478	250	CM-20B-251	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$ "	18c
12 L 479	300	CM-20B-271		18c
12 L 480	300	CM-20B-301		
12 L 481	350	CM-20B-351	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$ "	18c
12 L 482	430	CM-20B-431		
12 L 483	500	CM-20B-501		

B TYPE 1467LS

Stock No.	Mmf	MIL No.	Size	NET EACH
12 L 778	560	CM-30B-561		18c
12 L 779	680	CM-30B-681	$3\frac{3}{4} \times 3\frac{3}{4} \times \frac{9}{32}$ "	18c
12 L 780	910	CM-30B-911		21c
12 L 781	1000	CM-30B-102		24c
12 L 782	1500	CM-30B-152		24c
12 L 783	2000	CM-30B-202		26c
12 L 784	2200	CM-30B-222		26c
12 L 785	2500	CM-30B-252	$3\frac{3}{4} \times 3\frac{3}{4} \times \frac{9}{32}$ "	29c
12 L 786	2700	CM-30B-272		29c
12 L 787	3000	CM-30B-302		35c
12 L 788	3300	CM-30B-332		35c
12 L 789	4000	CM-30B-472	$3\frac{3}{4} \times 3\frac{3}{4} \times \frac{9}{32}$ "	38c
12 L 790	5000	CM-30B-502		41c
12 L 791	5600	CM-30B-562		41c
12 L 792	6200	CM-30B-622		49c
12 L 793	7500	CM-30B-752	$3\frac{3}{4} \times 3\frac{3}{4} \times \frac{9}{32}$ "	59c
12 L 794	8200	CM-30B-822		59c
12 L 795	10000	CM-30B-103		71c

A TYPE 1469—SILVERED MICA

Stock No.	Mmf	MIL No.	Size	NET EACH
12 L 300	5	CM-20C-050		
12 L 301	10	CM-20C-100		
12 L 302	12	CM-20C-120	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$ "	24c
12 L 303	15	CM-20C-150		
12 L 304	18	CM-20C-180		
12 L 305	20	CM-20C-200		
12 L 306	24	CM-20C-240	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$ "	24c
12 L 307	27	CM-20C-270		
12 L 308	30	CM-20C-300		
12 L 309	33	CM-20C-330		
12 L 310	36	CM-20C-360		
12 L 311	39	CM-20C-390	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$ "	24c
12 L 312	43	CM-20C-430		
12 L 313	47	CM-20C-470		
12 L 314	50	CM-20C-500		
12 L 315	51	CM-20C-510	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$ "	24c
12 L 316	56	CM-20C-560		
12 L 317	62	CM-20C-620		
12 L 318	68	CM-20C-680		
12 L 319	75	CM-20C-750	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$ "	24c
12 L 320	82	CM-20C-820		
12 L 321	91	CM-20C-910		
12 L 322	100	CM-20C-100		24c
12 L 323	150	CM-20C-151		26c
12 L 324	180	CM-20C-181	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$ "	26c
12 L 325	200	CM-20C-201		26c
12 L 326	220	CM-20D-221		26c
12 L 327	240	CM-20D-241		32c
12 L 328	270	CM-20D-271		32c
12 L 329	300	CM-20D-301		32c
12 L 330	360	CM-20D-361	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$ "	32c

B TYPE 1464—SILVERED MICA

Stock No.	Mmf	MIL No.	Size	NET EACH
12 L 331	470	CM-30D-471		.41
12 L 332	510	CM-30D-511		.41
12 L 333	560	CM-30D-561	$3\frac{3}{4} \times 3\frac{3}{4} \times \frac{9}{32}$ "	.44
12 L 334	620	CM-30D-621		.44
12 L 335	680	CM-30D-681		.47
12 L 336	750	CM-30D-751		.47
12 L 337	820	CM-30D-821	$3\frac{3}{4} \times 3\frac{3}{4} \times \frac{9}{32}$ "	.50
12 L 338	910	CM-30D-911		.53
12 L 339	1000	CM-30D-1000		.59
12 L 340	2000	CM-30D-2002		.79
12 L 341	3000	CM-30D-3002	$3\frac{3}{4} \times 3\frac{3}{4} \times \frac{9}{32}$ "	1.12
12 L 342	3900	CM-30D-3902		1.18
12 L 343	5000	CM-30D-5002	$3\frac{3}{4} \times 3\frac{3}{4} \times \frac{9}{32}$ "	1.26
12 L 344	6200	CM-30D-6222	$3\frac{3}{4} \times 3\frac{3}{4} \times \frac{9}{32}$ "	1.41
12 L 345	7500	CM-30D-7522	$3\frac{3}{4} \times 3\frac{3}{4} \times \frac{9}{32}$ "	1.47
12 L 346	10000*	CM-35D-103	$3\frac{3}{4} \times 3\frac{3}{4} \times \frac{9}{32}$ "	2.06

(C) TYPE 1650L (D) TYPE 1445

Mfd	Stock No.	EACH	Stock No.	EACH
.00005	12 L 347		12 L 359	
.0001	12 L 348		12 L 360	
.00025	12 L 349	85c	12 L 361	
.0005	12 L 350		12 L 362	
.001	12 L 351	.85	12 L 363	.71
.002	12 L 352	3.97	12 L 364	.85
.003	12 L 353	1.09	12 L 365	.85
.005	12 L 354	1.23	12 L 366	.91
.01	12 L 355	1.65	12 L 367	1.26
.015	12 L 356	1.79	12 L 368	1.56
.02	12 L 357	2.09	12 L 369	1.79
.03	12 L 358	2.68	12 L 370	2.62

1200 WVDC

(C) TYPE 1651L	(D) TYPE 1446
.00005	12 L 371
.0001	12 L 372
.00025	12 L 373
.0005	12 L 374
.001	12 L 375
.002	12 L 376
.003	12 L 377
.005	12 L 378
.01	12 L 379
.02	12 L 380
.03	12 L 381
.00005	12 L 382
.0001	12 L 383
.00025	12 L 384
.0005	12 L 385
.001	12 L 386
.002	12 L 387
.003	12 L 388
.005	12 L 389
.01	12 L 390

2500 WVDC

(C) TYPE 1652L	(D) TYPE 1447
.00005	12 L 484
.0001	12 L 485
.0002	12 L 486
.00025	12 L 487
.0003	12 L 488
.0004	12 L 489
.0005	12 L 490
.001	12 L 491
.015	12 L 492
.002	12 L 493
.003	12 L 494
.004	12 L 495
.005	12 L 496
.01	12 L 497
.00005	12 L 967
.0001	12 L 968
.0002	12 L 969
.00025	12 L 970
.0003	12 L 971
.0004	12 L 972
.0005	12 L 973
.001	12 L 974
.015	12 L 975
.002	12 L 976
.003	12 L 977
.004	12 L 978
.005	12 L 979

PLASTIC-COATED, DIPPED-MICA CAPACITORS

Compact, plastic-coated, dipped-mica capacitors designed for long life and high stability over wide ranges of temperature and humidity. Employ radial-lead design—ideal for printed-circuit use and automatic insertion. Operate from -55° to $+125^{\circ}$ C. Tolerance is $\pm 10\%$. Rated 500 DCWV, except *300 DCWV. Max. size: ADM-15, $1\frac{1}{2} \times \frac{1}{2} \times \frac{1}{8}$ " ADM-19, $\frac{3}{4} \times \frac{1}{2} \times \frac{1}{8}$ " Av. shgp. wt., 2.0z.



Stock No.	Mfr's Type	Mmf	EACH
13 L 541	ADM-15-050	5	
13 L 542	ADM-15-100	10	
13 L 543	ADM-15-150	15	15c
13 L 544	ADM-15-200	20	
13 L 545	ADM-15-300	30	
13 L 546	ADM-15-330	33	
13 L 547	ADM-15-360	36	15c
13 L 548	ADM-15-390	39	
13 L 549	ADM-15-470	47	
13 L 572	ADM-15-500	50	15c
13 L 573	ADM-15-560	56	
13 L 574	ADM-15-680	68	
13 L 575	ADM-15-820	82	15c
13 L 576	ADM-15-101	100	15c
13 L 577	ADM-15-151	150	18c
13 L 578	ADM-15-181	180	21c
13 L 873	ADM-15-201	200	21c
13 L 874	ADM-15-221	220	24c
13 L 875	ADM-15-271	270	26c
13 L 876	ADM-15-301	300	26c
13 L 877	ADM-15-361	360	29c
13 L 878	*ADM-15-471	470	35c
13 L 879	*ADM-15-511	510	35c
13 L 880	ADM-19-681	680	35c
13 L 881	ADM-19-821	820	35c
13 L 882	ADM-19-102	1000	41c
13 L 883	ADM-19-202	2000	65c
13 L 884	*ADM-19-302	3000	88c

CERAMIC CASED TUBULARS

Ceramic-cased paper tubular capacitors— for use in electronic equipment where outstanding performance and top dependability are required. Have high stability and dielectric strength. Thermosetting type end-seals provide exceptional humidity protection. Pigtail leads are firmly imbedded; will not work loose or pull out. Operating temperature range: -55° C to $+85^{\circ}$ C. $\pm 20\%$ tolerance. Av. shgp. wt., 4.0z.

Stock No.	Mfd	WVDC	Size	NET EACH
12 L 400	.01	200	$\frac{3}{16} \times 1\frac{1}{2}$ "	
12 L 401	.015	200	$\frac{3}{16} \times 1\frac{1}{2}$ "	15c
12 L 402	.02	200	$\frac{3}{16} \times 1\frac{1}{2}$ "	
12 L 403	.022	200	$\frac{3}{16} \times 1\frac{1}{2}$ "	
12 L 404	.03	200	$\frac{3}{16} \times 1\frac{1}{2}$ "	
12 L 405	.033	200	$\frac{3}{16} \times 1\frac{1}{2}$ "	15c
12 L 406	.047	200	$\frac{3}{16} \times 1\frac{1}{2}$ "	15c
12 L 407	.05	200	$\frac{3}{16} \times 1\frac{1}{2}$ "	15c
12 L 408	.068	200	$1\frac{1}{2} \times 1\frac{1}{2}$ "	18c
12 L 409	.1	200	$1\frac{1}{2} \times 1\frac{1}{2}$ "	21c
12 L 410	.15	200	$1\frac{1}{2} \times 1\frac{1}{2}$ "	21c
12 L 411	.2	200	$1\frac{1}{2} \times 1\frac{1}{2}$ "	21c
12 L 413	.25	200	$1\frac{1}{2} \times 1\frac{1}{2}$ "	24c
12 L 414	.33	200	$1\frac{1}{2} \times 1\frac{1}{2}$ "	29c
12 L 415	.47	200	$1\frac{1}{2} \times 1\frac{1}{2}$ "	35c
12 L 416	.5	200	$1\frac{1}{2} \times 2\frac{1}{4}$ "	35c
12 L 418	1.0	200	$1\frac{1}{2} \times 2\frac{1}{4}$ "	53c
12 L 419	.0068	400	$\frac{3}{16} \times 1\frac{1}{2}$ "	15c
12 L 420	.01	400	$\frac{3}{16} \times 1\frac{1}{2}$ "	15c
12 L 421	.015	400	$\frac{3}{16} \times 1\frac{1}{2}$ "	15c
12 L 422	.02	400	$\frac{3}{16} \times 1\frac{1}{2}$ "	15c
12 L 423	.022	400	$\frac{3}{16} \times 1\frac{1}{2}$ "	15c
12 L 424	.03	400	$\frac{3}{16} \times 1\frac{1}{2}$ "	18c
12 L 426	.047	400	$\frac{3}{16} \times 1\frac{1}{2}$ "	18c
12 L 427	.05	400	$\frac{3}{16} \times 1\frac{1}{2}$ "	21c
12 L 429	.1	400	$1\frac{1}{2} \times 1\frac{1}{2}$ "	18c
12 L 431	.2	400	$\frac{3}{16} \times 1\frac{1}{2}$ "	21c
12 L 433	.25	400	$\frac{3}{16} \times 1\frac{1}{2}$ "	29c
12 L 434	.33	400	$\frac{3}{16} \times 1\frac{1}{2}$ "	32c
12 L 435	.47	40		

Mallory Capacitors



For use in filter circuits, audio by-pass circuits and TV applications. Capacitors feature complete stability under heavy ripple current, high surge voltages and high temperatures. Units are encased in compact, rubber-sealed aluminum cases. FP types have the exclusive Mallory Fabricated Plates—anoles specially constructed of metalized cotton gauze. WP types have etched-plate anodes. PFP and PWP types are identical in performance to FP

and WP types, but employ straight, lug-type terminals and are for use in printed circuits. Special internal design lowers RF impedance and permits a minimum of coupling between plates. Up to 150 WVDC, capacity tolerance is -10% to +100%. Above 150 WVDC, tolerance is -10% to +50%. Can is negative except *. Insulating washer supplied. For mounting hardware, see page 159. Av. shpg. wt., 6 oz.



SINGLE SECTION

Stock No.	Mfr's Type	Mfd	DC Wkg. Volts	Size	NET EACH
18 L 471	FP171	10	500	1x2"	.94
18 L 472	FP173	20	500	1x2"	1.09
18 L 473	FP175	30	500	1x2 1/2"	1.19
18 L 474	FP177	40	500	1x3"	1.47
18 L 475	FP187	90	500	1 1/2 x 3"	2.06
17 L 360	FP142	10	450	3/4 x 2"	.91
17 L 364	FP143	15	450	1x2"	1.00
17 L 361	FP144	20	450	1x2"	1.06
17 L 367	FP145	30	450	1x2 1/2"	1.15
17 L 362	FP146	40	450	1x2 1/2"	1.21
18 L 465	FP148	60	450	1 1/2 x 2 1/2"	1.65
17 L 368	FP149	80	450	1 1/2 x 2 1/2"	1.73
18 L 470	FP150	100	450	1 1/2 x 2 1/2"	2.03
17 L 370	FP137	50	350	1x2 1/2"	1.23
18 L 468	FP137.2	60	350	1x3"	1.29
17 L 371	FP140	125	350	1 1/2 x 3"	2.32
18 L 465	FP128	80	300	1x3"	1.50
18 L 466	FP129.1	100	300	1x3"	1.71
18 L 467	FP131	150	300	1x3"	2.06
18 L 715	FP121	120	200	1 1/2 x 2"	1.93
18 L 231	FPF122	160	200	1 1/2 x 2 1/2"	1.68
17 L 372	FP115	50	150	1x2"	.97
17 L 373	FP116	100	150	1x2 1/2"	1.18
18 L 463	FP116.5	120	150	1x3"	1.21
18 L 232	PPF116.8	140	150	1x2 1/2"	1.23
17 L 799	FP117	150	150	1x3"	1.26
18 L 464	FP118	200	150	1 1/2 x 2 1/2"	1.44
17 L 836	FP119	300	150	1 1/2 x 3"	1.65
17 L 350	WP065	500	50	1 1/2 x 2"	1.26
17 L 258	WP068	1500	50	1x4"	2.26
17 L 257	WP052	40	25	3/4 x 2"	.79
18 L 350	WP057	500	25	1x2 1/2"	1.50
17 L 352	WP059	1000	25	1 1/2 x 2"	2.09
17 L 353	WP039	1000	15	1x2 1/2"	1.50
17 L 354	WP041	2000	15	1 1/2 x 2 1/2"	2.03
17 L 256	WP042	3000	15	1 1/2 x 3"	2.06

DUAL SECTION

18 L 458	FP284	30-30	500	1 1/2 x 2 1/2"	1.91
18 L 239	FP284	30-30	500	1 1/2 x 2 1/2"	1.91
17 L 286	FP288	40-40	500	1 1/2 x 2 1/2"	2.53
17 L 842	FP258	15-15	475	1x2 1/2"	1.38
18 L 455	FP259	30-10	475	1x3"	1.53
17 L 843	FP262	40-40	475	1 1/2 x 3"	2.53
18 L 352	FP255	20-100	475-300	1 1/2 x 3"	2.32
18 L 456	FP263	60-40	475	1 1/2 x 4"	2.68
17 L 457	FP264.5	80-40	475	1 1/2 x 4"	2.68
17 L 283	FP266	80-50	475	1 1/2 x 4"	2.67
17 L 375	FP231	10-10	450	1x2"	1.12
18 L 477	FP231.3	20-10	450	1x2 1/2"	1.29
17 L 376	FP234	20-20	450	1x3"	1.50
17 L 765	FP237	30-30	450	1 1/2 x 3"	1.79
17 L 430	FP238	40-40	450	1 1/2 x 3"	2.03
17 L 383	FP239	50-40	450	1 1/2 x 3"	2.15
17 L 766	FP240.5	50-50	450	1 1/2 x 3"	2.26
18 L 478	FP241	50-50	450	1 1/2 x 3"	2.26
18 L 454	FP245.2	80-20	450	1 1/2 x 3"	2.29
17 L 838	FP230	20-50	450-250	1x3"	1.65
18 L 356	FP244	80-50	450-50	1 1/2 x 3"	2.06
18 L 453	FP229.5	120-40	400	1 1/2 x 4"	3.09
17 L 432	FP225	15-15	350	1x2"	1.32
17 L 630	FP227	20-20	350	1x2 1/2"	1.35
17 L 265	FP227.3	30-30	350	1x3"	1.71
18 L 482	FP227.7	100-100	350	1 1/2 x 4"	3.62
18 L 354	FP218	120-20	300	1 1/2 x 3"	2.35
18 L 480	FP217.8	40-40	300	1x2"	1.73
18 L 355	FP217.9	75-75	300	1 1/2 x 3"	2.23
18 L 234	PPF217.8	10-10	300	1 1/2 x 2"	1.15
17 L 377	FP217	20-20	250	1x2"	1.12
17 L 837	FP221	40-40	250	1x3"	1.47
17 L 357	FP217.7	150-150	250	1 1/2 x 4"	3.03
18 L 479	FP217.74	200-200	250	1 1/2 x 4"	3.53
17 L 760	FP208	20-20	150	1x2"	1.00
17 L 379	FP211	30-30	150	1x2"	1.09
17 L 761	FP210	40-20	150	1x2"	1.06
17 L 762	FP212	40-40	150	1x2 1/2"	1.18
17 L 763	FP213	50-30	150	1x2"	1.12
18 L 235	PPF213.1	50-30	150	1x2"	1.18
17 L 380	FP214	50-50	150	1x2 1/2"	1.26
18 L 236	FP214.3	70-30	150	1x2"	1.29
17 L 764	FP215	80-40	150	1x3"	1.29
17 L 395	FP215	125-100	150	1 1/2 x 2 1/2"	2.00
17 L 995	FP216.1	200-5	150	1 1/2 x 2 1/2"	1.59
17 L 263	FP216.4	200-200	150	1 1/2 x 4"	2.35
18 L 237	PPF216.4	200-200	150	1 1/2 x 3"	2.35
18 L 451	WP202.1	50-50	50	1x2"	1.00
18 L 452	WP202.5	100-100	50	1x2"	1.23
18 L 450	WP201.1	50-50	25	1x2"	.91
18 L 238	PWP200.6	500-100	20	1x2"	1.73
17 L 433	WP200	1000-1000	15	1 1/2 x 2 1/2"	2.59
17 L 356	WP204	250-1000	10-6	1 1/2 x 2 1/2"	1.68

TRIPLE SECTION

Stock No.	Mfr's Type	Mfd	DC Wkg. Volts	Size	NET EACH
17 L 713	FP398	10-40-40	500-450-450	1 1/2 x 3"	2.44
17 L 864	FP394	10-10-10	475	1x3"	1.59
17 L 865	FP396	30-30-20	475	1 1/2 x 3"	2.62
17 L 698	FP396.2	40-10-10	475	1 1/2 x 3 1/2"	2.26
17 L 957	FP377	40-40-40	450	1 1/2 x 4"	2.88
17 L 858	FP378	80-20-20	450	1 1/2 x 4"	3.18
17 L 866	FP375.8	10-10-10	450	1x2 1/2"	1.53
17 L 665	FP376.1	15-15-10	450	1x3"	1.73
17 L 667	FP376.3	20-10-10	450	1x3"	1.71
17 L 668	FP376.5	20-20-20	450	1 1/2 x 2 1/2"	2.12
17 L 659	FP376.8	40-40-10	450	1 1/2 x 3"	2.44
17 L 865	FP375	40-40-100	450-450-200	1 1/2 x 4"	2.44
17 L 855	FP366	20-10-50	450-450-50	1x3"	1.68
17 L 957	FP345.2	10-10-10	450-450-25	1x2 1/2"	1.41
17 L 598	FP345.5	15-15-40	450-450-25	1x2 1/2"	1.62
17 L 599	FP345.8	20-20-20	450-450-25	1x3"	1.79
17 L 444	FP346	40-40-20	450-450-25	1 1/2 x 3"	2.32
18 L 360	FP341	40-90-50	450-150-150	1 1/2 x 3"	2.35
18 L 717	FP333.85	100-10-80	400-400-350	1 1/2 x 3"	2.91
18 L 239	PPF333.15	40-30-20	400-350-300	1 1/2 x 2 1/2"	2.91
18 L 485	FP332.4	100-100-10	350	1 1/2 x 4"	4.00
17 L 429	FP330.5	10-10-10	350	1x2"	1.41
17 L 429	FP330.5	30-20-10	350	1x3"	1.91
17 L 427	FP330.3	20-10-5	350-350-250	1x2"	1.50
18 L 484	FP329.5	20-20-20	350-350-25	1x2"	1.65
17 L 386	FP328	15-10-20	350-350-25	1x2"	1.47
17 L 346	FP331	30-30-20	350-300-25	1x3"	1.85
18 L 241	PPF326.76	150-100-30	300	1 1/2 x 4"	3.00
18 L 242	PPF326.4	60-10-25	300-300-25	1 1/2 x 2"	2.20
17 L 846	FP335	100-60-20	300-250-250	1 1/2 x 3"	2.20
18 L 483	FP326.3	100-200-60	300-150-150	1 1/2 x 4"	3.20
18 L 240	PPF326.15	10-10-20	300-150-150	1x2"	1.32
18 L 425	FP320	40-20-20	250	1 1/2 x 2"	1.71
17 L 358	FP319	80-40-50	250-150-50	1 1/2 x 2 1/2"	1.94
17 L 289	FP311.2	20-20-20	150	1x2"	1.35
17 L 337	FP311.4	40-20-20	150	1x2 1/2"	1.41
17 L 338	FP311.5	40-40-40	150	1x3"	1.53
17 L 339	FP311.7	80-40-40	150	1 1/2 x 2"	1.71
17 L 430	FP311.9	120-100-20	150	1 1/2 x 3"	2.38
18 L 247	PPF311.63	50-40-30	150	1x2 1/2"	1.98
18 L 244	PPF311.12	70-30-20	150-150-25	1x2 1/2"	2.35
17 L 387	FP306	40-20-20	150-150-25	1x2"	1.35
17 L 767	FP307	40-20-100	150-150-25	1x2 1/2"	1.47
17 L 768	FP310	40-40-20	150-150-25	1x2 1/2"	1.41
17 L 438	FP309	50-30-100	150-150-25	1x2 1/2"	1.59
17 L 344	FP311	50-50-20	150-150-25	1x3"	1.56
17 L 844	FP314	40-40-20	150-150-25	1x3"	1.65
18 L 245	PPF302.75	40-40-40	150-150-10	1x3"	1.65
18 L 246	FP302.5	80-60-250	150-150-10	1x2 1/2"	2.00
18 L 246	PPF302.38	70-30-100	150-150-10	1x2 1/2"	1.65
17 L 357	WP520	40-40-40	25	1x2"	1.26

QUADRUPLE SECTION

18 L 462	FP495	40-40-8-8	500	1 1/2 x 4"	3.35
18 L 459	FP474.5	20-20-10-10	475	1 1/2 x 2 1/2"	2.56
18 L 460	FP475	20-20-20-20	475	1 1/2 x 3"	3.06
18 L 851	FP475.5	40-10-10-10	475	1 1/2 x 3"	3.06
17 L 880	FP474	10-10-10-10	475	1 1/2 x 2"	2.06
17 L 994	FP476	40-20-10-10	475	1 1/2 x 3"	3.00
18 L 769	FP456	25-20-40-100	475-450-300-50	1 1/2 x 3"	2.91
18 L 325	FP451.3	10-4-140-100	475-300-300-50	1 1/2 x 4"	3.12
17 L 422	FP434	10-10-10-10	450	1 1/2 x 2"	1.97
17 L 423	FP444	20-20-20-20	450	1 1/2 x 3"	2.76
17 L 893	WP433.6	5-5-5-5	450	1 1/2 x 2"	1.76
17 L 894	FP434.5	20-10-10-10	450	1 1/2 x 2"	2.18
17 L 896	FP444.8	30-30-30-30	450	1 1/2 x 3"	3.06
17 L 898	FP445	35-35-10-5	450	1 1/2 x 3"	2.70
17 L 899	FP447	40-40-20-20	450	1 1/2 x 4"	3.26
17 L 887	FP430.2	40-20-20-25	450-450-450-25	1 1/2 x 3"	2.73
17 L 872	FP436	40-20-20-40	450-450-450-25	1 1/2 x 3"	2.73
17 L 449	FP429	40-30-10-20	450-450-450-25	1 1/2 x 3"	2.65
17 L 888	FP430.6	40-40-40-40	450-450-450-25	1 1/2 x 4"	3.23
17 L 886	FP428.4	40-40-30-30	450-450-350-350	1 1/2 x 4"	3.47
17 L 856	FP427.5	10-10-60-100	450-450-200-50	1 1/2 x 2 1/2"	2.26
17 L 448	FP426	20-15-20-20	450-450-25-25	1 1/2 x 3"	2.88
17 L 834	FP413X	40-40-40-20	400-300-300-150	1 1/2 x 3"	2.91
18 L 247	PPF420.52	40-30-20-20	400-350-350-350	1 1/2 x 3"	2.91
18 L 726	FP420.7	100-10-30-20	400-400-50-50	1 1/2 x 3"	3.00
18 L 494	FP420.45	40-80-100-25	400-350-200-5		

Mallory Capacitors

"TT" CAPACITORS FOR TRANSISTOR CIRCUITS



Extremely small, aluminum-case, dry electrolytic capacitors. Designed for transistorized circuits and other equipment requiring utmost economy of space. Incorporate etched foil design and high-purity aluminum construction to assure optimum efficiency and stability. A special silicon rubber compound is used to seal the ends. Units have very low leakage current. All capacitors have an operating range of -20° C. to +65° C. Tolerance is -10% to +250%. Leads are 22 gauge, tinned copper wire. Av. shpg. wt., 2 oz.

Stock No.	Type	Mfd	WVDC	Size	NET
18 L 763	TT1X5	5	1	3/16x1/2"	73¢
18 L 764	TT3X10	10	3	3/16x3/8"	73¢
18 L 765	TT3X25	25	3	1/4x3/8"	73¢
18 L 766	TT3X40	40	3	1/4x3/8"	73¢
18 L 768	TT16X2	2	6	3/16x1/2"	73¢
18 L 769	TT16X5	5	6	3/16x1/2"	73¢
18 L 770	TT16X8	8	6	3/16x1/2"	79¢
18 L 771	TT16X10	10	6	3/16x1/2"	79¢
18 L 772	TT16X15	15	6	1/4x3/8"	79¢
18 L 773	TT16X25	25	6	1/4x3/8"	79¢
18 L 775	TT16X40	40	6	3/8x3/4"	82¢
18 L 776	TT16X50	50	6	3/8x3/4"	82¢
18 L 777	TT16X60	60	6	3/8x3/4"	82¢
18 L 778	TT16X100	100	6	3/8x3/4"	88¢
18 L 779	TT10X15	15	10	1/4x3/8"	79¢
18 L 780	TT10X25	25	10	3/8x3/4"	79¢
18 L 781	TT10X60	60	10	3/8x3/4"	85¢
18 L 782	TT10X12	12	12	3/8x3/4"	79¢
18 L 783	TT12X2	2	12	3/8x3/4"	79¢
18 L 784	TT12X5	5	12	3/8x3/4"	79¢
18 L 785	TT12X10	10	12	1/4x3/8"	79¢
18 L 786	TT15X10	10	15	1/4x3/8"	82¢
18 L 787	TT15X20	20	15	3/8x3/4"	85¢
18 L 788	TT15X30	30	15	3/8x3/4"	85¢
18 L 789	TT25X5	5	25	1/4x3/8"	82¢
18 L 790	TT25X8	8	25	3/8x3/4"	82¢
18 L 791	TT25X15	15	25	3/8x3/4"	85¢
18 L 792	TT25X20	20	25	3/8x3/4"	85¢
18 L 793	TT50X5	5	50	3/8x3/4"	88¢
18 L 794	TT50X10	10	50	3/8x3/4"	88¢
18 L 795	TT50X20	20	50	3/8x3/4"	88¢

AC MOTOR-STARTING CAPACITORS

Non-polarized dry electrolytic capacitors for intermittent duty in AC motor-starting circuits. All are Type PS, with molded plastic containers except †Type EP, aluminum case with cardboard sleeve. Equipped with two screw-type terminals, and two solder lugs for optional use. Capacitors are rated at minimum capacity values, with a tolerance of +20%. Use mounting hardware listed below. All for 110-volt AC motors, except *for 330 v. AC, †for 165 v. AC, **for 220 v. AC. Av. shpg. wt., 10 oz.

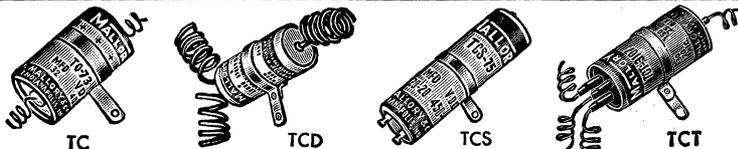


Stock No.	Type	Mfd	Size	NET
18 L 403	2730*	27	1 1/2x3 3/8"	3.82
18 L 550	5310	53	1 1/2x3 3/8"	1.26
18 L 551	6410	64	1 1/2x3 3/8"	1.32
18 L 552	7010	70	1 1/2x3 3/8"	1.41
18 L 553	7510	75	1 1/2x3 3/8"	1.50
18 L 404†	8130*	81	2 1/2x4 3/8"	6.76
18 L 554	8610	86	1 1/2x3 3/8"	1.56
18 L 555	9710	97	1 1/2x3 3/8"	1.65
18 L 556	10810	108	1 1/2x3 3/8"	1.69
18 L 405†	10830*	108	2 1/2x4 3/8"	8.06
18 L 557	12410	124	1 1/2x3 3/8"	1.73
18 L 558	13010	130	1 1/2x3 3/8"	1.73
18 L 745	14120**	141	1 1/2x3 3/8"	5.50
18 L 559	14510	145	1 1/2x3 3/8"	1.89
18 L 400	15810	158	1 1/2x3 3/8"	1.91
18 L 561	16110	161	1 1/2x3 3/8"	1.91
18 L 563	19410	194	1 1/2x3 3/8"	2.29
18 L 564	20110	201	1 1/2x3 3/8"	2.38
18 L 566	24310	243	1 1/2x3 3/8"	2.76
18 L 402	24355‡	243	2 1/2x4 3/8"	5.06
18 L 567	27010	270	1 1/2x3 3/8"	2.79
18 L 401	28210	282	1 1/2x3 3/8"	2.85
18 L 568	32410	324	1 1/2x3 3/8"	3.18
18 L 569	34010	340	1 1/2x3 3/8"	3.26
18 L 570	37810	378	2 1/2x4 3/8"	3.53
18 L 571	40010	400	2 1/2x4 3/8"	3.56

PL & HB MOUNTING HARDWARE

Plastic end caps and mounting brackets for all capacitors (except EP types) listed above and high-capacity electrolytics at right. P.E.C. indicates plastic end cap. Av. shpg. wt., 3 oz.

No.	Type	Description	Size	NET
18 L 390	PL-3	P.E.C., on motor	1 1/2"	1.22
18 L 391	PL-6	P.E.C., on motor	1 1/2"	1.52
18 L 392	PL-6	P.E.C., on motor	1 1/2"	1.52
18 L 393	PL-3A	P.E.C. on motor	1 1/2"	1.22
18 L 396	HB-A	Horiz. bracket	3 1/2"	1.81
18 L 397	HB-B	Horiz. bracket	4 1/2"	2.12



METAL-CASED ELECTROLYTICS

Metal-cased electrolytics. All units have external insulating sleeves. Type TC has 3 tinned copper leads; TCD and TCT has 8" insulated wire leads; TCS, soldering lugs. *Non-polarized types. Shpg. wt., 4 oz.

TYPE TC SINGLE CAPACITORS

No.	Type	Mfd	W.V.	Size	E.A.
17 L 450	92	10	600	1 1/2x2 1/2"	1.73
17 L 245	81	10	500	1 1/2x1 3/4"	.79
17 L 246	83	20	500	1 1/2x1 3/4"	.94
17 L 247	84	30	500	1 1/2x2 1/4"	1.03
17 L 452	70	5	450	1 1/2x1 3/4"	.71
17 L 619	71	8	450	1 3/8x1 3/4"	.73
17 L 620	72	10	450	1 3/8x1 3/4"	.76
17 L 638	73	12	450	1 3/8x1 3/4"	.79
17 L 622	74	16	450	1 3/8x1 3/4"	.82
17 L 453	75	20	450	1 1/2x1 3/4"	.91
17 L 454	77	30	450	1 1/2x2 1/4"	1.00
17 L 508	78	40	450	1 1/2x2 1/4"	1.06
18 L 800	795	60	450	1 1/2x2 1/4"	1.35
17 L 204	80	80	450	1 1/2x3 1/4"	1.65
17 L 63	60	5	350	1 1/2x1 3/4"	.62
17 L 635	61	8	350	1 1/2x1 3/4"	.71
17 L 455	62	10	350	1 3/8x1 3/4"	.73
18 L 341	63	12	350	1 3/8x1 3/4"	.76
17 L 637	64	16	350	1 3/8x1 3/4"	.82
17 L 456	65	20	350	1 3/8x1 3/4"	.85
17 L 244	68	60	350	1 1/2x2 1/4"	1.15
18 L 801	69	100	350	1 1/2x2 1/4"	1.82
17 L 626	50X	5	250	1 1/2x1 1/4"	.62
17 L 627	51	8	250	1 1/2x1 1/4"	.68
17 L 628	52	10	250	1 1/2x1 1/4"	.74
17 L 629	54	16	250	1 1/2x1 1/4"	.76
17 L 505	55	20	250	1 3/8x1 3/4"	.79
17 L 633	58	40	250	1 3/8x1 3/4"	.91
17 L 243	59	50	250	1 1/2x1 3/4"	1.00
17 L 249	1265	100	250	1x3"	1.44
17 L 458	40	5	150	7/8x1 1/8"	.59
17 L 624	41	8	150	7/8x1 1/8"	.62
17 L 459	42	10	150	7/8x1 1/8"	.66
17 L 625	43	12	150	7/8x1 1/8"	.65
17 L 608	44	16	150	1 1/2x1 1/2"	.68
17 L 502	45	20	150	1 3/8x1 1/2"	.76
17 L 610	47	30	150	1 3/8x1 1/2"	.79
17 L 504	48	40	150	1 3/8x1 1/2"	.82
17 L 504	48	50	150	1 3/8x1 1/2"	.84
17 L 640	492	80	150	1 1/2x2 1/4"	.92
18 L 802	493	100	150	1 1/2x2 1/4"	1.03
17 L 242	495	150	150	1 1/2x2 1/4"	1.12
17 L 639	302	2	50	7/8x1 1/8"	.53
17 L 623	30	5	50	7/8x1 1/8"	.59
17 L 603	32	10	50	7/8x1 1/8"	.59
17 L 604	36	25	50	1 1/2x1 1/4"	.62
17 L 605	39	50	50	1 1/2x1 1/4"	.71
17 L 606	41	100	50	1 1/2x1 1/4"	.82
18 L 2	50025	250	50	1 1/2x1 1/4"	1.03
17 L 600	22	10	25	7/8x1 1/8"	.59
17 L 601	26	25	25	7/8x1 1/8"	.59
17 L 602	29	50	25	1 1/2x1 1/4"	.65
17 L 500	2501	100	25	1 1/2x1 1/4"	.79
17 L 207	*425	100	25	1x1 3/8"	.79

ALUMINUM CAN THREADED-NECK DRY ELECTROLYTICS

Threaded-neck units for replacement of wet or dry electrolytics. Upright mounting types. With hardware to facilitate replacement. For sub-chassis mounting, see Universal clips (page 159). Necks are 5/16" for 1" dia. units, 3/16" for 1 1/2" dia. All 1" dia. units have special washer for 1 3/8" clamp mounting. RS, HS and RM types have *leads and are internally insulated from case. *Has common positive and separate negative terminals (one connected to case). Type SP638 is lug-type dual. Av. shpg. wt., 7 oz.



No.	Type	Mfd	W.V.	Size	NET
17 L 058	HS693	8	600	1 3/8x3"	1.85
17 L 064	HS696	20	600	1 3/8x3"	2.66
17 L 220	RS213	8	450	1 1/2x3 1/2"	1.29
17 L 801	RS212	8	450	1 1/2x3 1/2"	1.29
17 L 059	HD684	10	450	1x3"	1.35
17 L 221	RS215	12	450	1 1/2x3 1/2"	1.41
17 L 802	RS214	12	450	1 1/2x3 1/2"	1.41
17 L 803	RS217	16	450	1 1/2x3 1/2"	1.44
17 L 222	RS216	16	450	1 1/2x3 1/2"	1.44
17 L 231	RS219	20	450	1 1/2x3 1/2"	1.59
17 L 232	RS223	30	450	1 1/2x3 1/2"	1.76
17 L 233	RS224	40	450	1 1/2x3 1/2"	1.85
17 L 327	SR638	8	450	1 1/2x3 1/2"	1.76
17 L 334	SR645	*8-8	450	1 1/2x2 3/4"	1.76
17 L 236	RM265	*8-8	450	1 1/2x3 1/2"	1.76

TYPE TC SINGLE CAPACITORS

No.	Type	Mfd	W.V.	Size	E.A.
18 L 804	304	2	3	1 1/2x1 1/2"	.53
17 L 466	2505	500	25	1 1/2x2 1/4"	1.35
17 L 642	1502	200	15	1 3/8x1 1/2"	.82
17 L 460	1505	500	15	1 1/2x2 1/4"	1.03
17 L 209	1501	1000	15	1 1/2x2 1/4"	1.35
17 L 205	*415	1000	15	1 1/2x2 1/4"	.94
17 L 461	*412	500	10	1 1/2x1 3/4"	.91
17 L 462	610	1000	6	3/8x1 1/2"	1.12
18 L 805	305	500	3	1 1/2x1 1/2"	.82
17 L 463	310	1000	3	1 1/2x1 3/4"	1.00

TCD COMMON-NEGATIVE DUALS

No.	Type	Mfd	W.V.	Size	E.A.
17 L 470	71	8-8	450	1 1/2x2"	1.00
17 L 509	72	10-10	450	1 1/2x2"	1.09
17 L 471	74	15-15	450	1 1/2x3 1/8"	1.29
17 L 472	75	20-20	450	1 1/2x3 1/8"	1.47
17 L 468	78	40-40	450	1 1/2x4"	2.00
17 L 473	62	10-10	350	1 1/2x2"	1.00
17 L 474	65	20-20	350	1 1/2x3 1/8"	1.32
17 L 475	52	10-10	250	1 1/2x2"	.97
17 L 476	55	20-20	250	1 1/2x2"	1.09
17 L 503	45	20-20	150	1 1/2x1 3/4"	.97
17 L 477	47	30-30	150	1 1/2x1 3/4"	1.06
17 L 478	48	40-40	150	1 1/2x2"	1.03
17 L 482	497	50-30	150	1 1/2x2"	1.09
17 L 481	49	50-50	150	1 1/2x2 1/4"	1.23
18 L 344	498	80-50	150	1 1/2x2 1/4"	1.38
17 L 479	26	25-25	25	1 1/2x1 1/4"	.82

TCS SEPARATE-SECTION DUALS

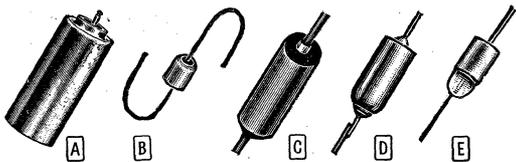
No.	Type	Mfd	W.V.	Size	E.A.
17 L 485	71	8-8	450	1 1/2x2 3/8"	1.26
17 L 487	75	20-20	450	1 1/2x3 1/8"	1.85
17 L 490	52	10-10	250	1 1/2x2 3/8"	1.23
17 L 493	45	20-20	150	1 1/2x2 3/8"	1.23
17 L 495	48	40-40	150	1 1/2x2 3/8"	1.38

TCT TRIPLE COMMON NEGATIVE

No.

Mallory Capacitors

INDUSTRIAL & SUBMINIATURE TANTALUM CAPACITORS



TYPE XT TANTALUM CAPACITORS

A Extremely rugged tantalum electrolytic capacitors, designed for use wherever severe conditions exist. Operate over a very wide temperature range: -55° C to +200° C. Hermetically sealed in steel. Ends have glass-to-metal seal. Dia., 7/8". Wrap-around terminals except for *screw terminal and nut. †Cathode band. Av. wt., 4 oz.

Stock No.	Type	Mfd	DC Volts		Ht.	NET EACH		
			175° C	85° C		1-24	25-49	50-99
18 L 501	XTL120	120	12	18	1/2"	8.55	8.05	
18 L 502	XTH240	240	12	18	1 1/8"	9.80	9.10	
18 L 503	XTL75	75	20	30	1 1/8"	5.50	5.05	
18 L 504	XTH150	150	20	30	1 1/8"	9.80	9.10	
18 L 505	XTL40	30	38	60	1/2"	8.55	8.05	
18 L 435	XTL40A†	30	38	60	1/2"	8.60	8.10	
18 L 436	XTLS40**	30	38	60	1/2"	8.90	8.40	
18 L 506	XTH80	80	38	60	1 1/8"	9.80	9.10	
18 L 507	XTL25	25	60	100	1 1/8"	8.55	8.05	
18 L 508	XTH50	50	60	100	1 1/8"	9.80	9.10	
18 LC 509	XTL12	12	120	180	3/32"	13.50	12.60	
18 LC 510	XTH25	25	120	180	1 1/4"	15.60	14.55	
18 LC 511	XTL8	8	180	270	1 1/8"	19.00	17.90	
18 LC 434	XTH8†	8	180	270	1 1/8"	19.00	17.90	
18 LC 512	XTH16	16	180	270	1 1/8"	22.10	20.60	
18 LC 513	XTL6	6	240	360	1 1/2"	23.85	22.25	
18 LC 433	XTH12A†	12	240	360	2 3/4"	28.75	26.80	
18 LC 515	XTL5	5	300	450	1 1/2"	29.65	27.60	
18 LC 516	XTH10	10	300	450	2 1/8"	35.70	33.30	
18 LC 517	XTL4	4	360	540	2 1/4"	36.30	34.20	
18 LC 518	XTH8	8	360	540	3 1/2"	42.60	39.70	
18 LC 432	XTH8A†	8	360	540	3 1/2"	42.65	39.75	

SUBMINIATURE ELECTROLYTIC CAPACITORS

B For transistor applications. Silver case; tantalum anode. Operate from -55° to +85° C. Tol. -15% to +75%. 1 1/2" leads. 7/32 x 3/8", 5 oz.

Stock No.	Type	Mfd	WVDC	NET EACH		
				1-24	25-49	50-99
18 L 796	TAP90-2	2	90			
18 L 441	TAP75-3M	3.5	75	2.50	2.00	1.75
18 L 442	TAP60-5	5	60			
18 L 443	TAP50-5	5	50			
18 L 444	TAP40-6	6	40			
18 L 445	TAP30-8	8	30			
18 L 446	TAP25-10	10	25			
18 L 447	TAP20-12	12	20	2.50	2.00	1.75
18 L 449	TAP10-20	20	10			
18 L 438	TAP6-30	30	6			

NEW TYPE TAS SOLID ELECTROLYTICS

C Subminiature solid-electrolyte tantalum capacitors. Ideal for use in miniaturized military and computer equipment, recorders, and many other applications where space is at a premium and adverse conditions are encountered. Have extremely small tantalum anode with tantalum oxide film. The electrolyte is a solid, semi-conducting material which will neither leak nor corrode even if the hermetic seal of the outer case is destroyed. Withstand extreme conditions. Operating temperature range: -80° C to +85° C. Tol. ±20%. 7/16" dia., 1/8" long. Av. shpg. wt., 4 oz.

Stock No.	Mfr's Type	Mfd	Working Voltage VDC	Surge VDC	NET EACH		
					1-24	25-49	50-99
18 L 981	TAS10-6	10	6	8			
18 L 982	TAS15-6	15	6	8			
18 L 983	TAS22-6	22	6	8	3.50	2.00	1.50
18 L 984	TAS33-6	33	6	8			
18 L 985	TAS47-6	47	6	8			
18 L 986	TAS60-6	60	6	8			
18 L 987	TAS6.8-10	6.8	10	13			
18 L 988	TAS10-10	10	10	13	3.50	2.00	1.50
18 L 989	TAS15-10	15	10	13			
18 L 990	TAS22-10	22	10	13			
18 L 991	TAS33-10	33	10	13			
18 L 992	TAS40-10	40	10	13			
18 L 993	TAS47-13	47	15	18	3.50	2.00	1.50
18 L 994	TAS50-13	50	15	18			
18 L 995	TAS10-15	10	15	18			
18 L 996	TAS15-15	15	15	18			
18 L 997	TAS22-15	22	15	18			
18 L 998	TAS3.3-20	3.3	20	23			
18 L 999	TAS4.7-20	4.7	20	23	3.50	2.00	1.50
18 L 947	TAS6.8-20	6.8	20	23			
18 L 948	TAS10-20	10	20	23			
18 L 949	TAS15-20	15	20	23			

TYPES TNT & STNT SUBMINIATURE CAPACITORS

D E Subminiature polarized tantalum electrolytic capacitors. Withstand rugged environmental conditions found in aircraft control and communications equipment. For use in hearing aids, extremely small radios and printed package assemblies. Type TNT is Fig. D, STNT is Fig. E. Type TNT will stand the vibration conditions of MIL-STD-202, Method 204.1. Temperature range: -55° C to +85° C. Capacity tolerance, -15 to +75%. Tinned leads. Size: TNT, 7/16 x 3/8"; STNT, 7/16 x 3/16". Av. shpg. wt., 2 oz.

Stock No.	Type	Mfd	WVDC	NET EACH		
				1-24, EA.	25-49, EA.	50-99, EA.
18 L 955	TNT 8-50	8	50			
18 L 956	TNT 15-30	15	30			
18 L 957	TNT 25-15	25	15	2.00	1.60	1.40
18 L 958	TNT 50-6	50	6			
18 L 959	TNT 80-3	80	3			
18 L 960	STNT-2	2	50			
18 L 961	STNT-4	4	50			
18 L 962	STNT-6	6	35	1.97	1.58	1.38
18 L 963	STNT-12	12	15			
18 L 964	STNT-25	25	6			
18 L 965	STNT-40	40	3			

Industrial Buyers: Allied has complete stocks of tantalum capacitors at OEM prices. Any reductions in price become effective just as soon as announced by manufacturers.

GEM MOLDED TUBULAR PAPER CAPACITORS



Molded tubular paper capacitors, manufactured to extremely high standards. Rugged, mineral-filled bakelite cases and resin sealing assure exceptionally dependable service, even under adverse operating conditions. Have high resistance to moisture and mechanical shock. Cases are molded by a non-pressure process to assure high durability. May be lead-mounted; leads are double-tinned copper-weld wire. Types up to 1/2" dia. have No. 20 leads; types over 1/2" dia. have heavy-duty No. 18 leads. All GEM capacitors are designed to operate efficiently at temperatures up to 85° C. All have capacity tolerance of 20%, except *10%. Outside foil is clearly indicated by a line on the bakelite case. Av. shpg. wt., 5 oz.

400 VOLTS DC WORKING

Stock No.	Mfrs Type	Mfd	Size	NET EACH
18 L 587	GEM-425	.005	3/16x1"	15c
18 L 588	GEM-411	.01	3/16x1"	
18 L 589	GEM-4115	.015	3/16x1 1/4"	
18 L 590	GEM-412	.02	3/16x1 1/4"	
18 L 591	GEM-4122	.022	3/16x1 1/4"	18c
18 L 592	GEM-4125	.025	3/16x1 1/4"	
18 L 593	GEM-413	.03	3/16x1 1/4"	
18 L 594	GEM-4133	.033	7/16x1 1/4"	
18 L 595	GEM-414	.04	7/16x1 1/4"	
18 L 596	GEM-4147	.047	7/16x1 1/4"	18c
18 L 597	GEM-415	.05	7/16x1 1/4"	18c
18 L 598	GEM-416	.06	7/16x1 1/4"	21c
18 L 599	GEM-4168	.068	7/16x1 1/4"	21c
18 L 600	GEM-401	.1	7/16x1 1/4"	21c
18 L 601	GEM-4015*	.15	3/8x1 1/4"	24c
18 L 602	GEM-402*	.2	3/8x2 1/4"	26c
18 L 603	GEM-4022*	.22	3/8x2 1/4"	26c
18 L 604	GEM-4025*	.25	3/8x2 1/4"	26c
18 L 605	GEM-4033*	.33	3/8x2 1/4"	29c
18 L 606	GEM-4047*	.47	1x2 1/4"	35c
18 L 607	GEM-405*	.5	1x2 1/4"	35c
18 L 608	GEM-41*	1.0	1x2 1/4"	73c

600 VOLTS DC WORKING

Stock No	Mfr's Type	Mfd	Size	NET EACH
18 L 547	GEM-615	.015	5/16x1"	
18 L 548	GEM-622	.02	5/16x1"	
18 L 549	GEM-6222	.022	5/16x1"	
18 L 550	GEM-6225	.025	5/16x1"	
18 L 551	GEM-623	.03	5/16x1"	
18 L 552	GEM-6233	.033	5/16x1"	
18 L 553	GEM-624	.04	5/16x1"	
18 L 554	GEM-6247	.047	5/16x1"	
18 L 555	GEM-625	.05	7/16x1 1/4"	15c
18 L 556	GEM-626	.06	7/16x1 1/4"	18c
18 L 557	GEM-6268	.068	7/16x1 1/4"	18c
18 L 558	GEM-627	.07	7/16x1 1/4"	18c
18 L 559	GEM-628	.08	7/16x1 1/4"	18c
18 L 560	GEM-6282	.082	7/16x1 1/4"	18c
18 L 561	GEM-611	.01	7/16x1 1/4"	
18 L 562	GEM-6112	.012	7/16x1 1/4"	
18 L 563	GEM-6115	.015	7/16x1 1/4"	18c
18 L 564	GEM-612	.02	7/16x1 1/4"	
18 L 565	GEM-6122	.022	7/16x1 1/4"	
18 L 566	GEM-6125	.025	7/16x1 1/4"	21c
18 L 567	GEM-613	.03	7/16x1 1/4"	21c
18 L 568	GEM-6133	.033	7/16x1 1/4"	21c
18 L 569	GEM-614	.04	7/16x1 1/4"	21c
18 L 570	GEM-6147	.047	7/16x1 1/4"	24c
18 L 571	GEM-615	.05	7/16x1 1/4"	24c
18 L 572	GEM-6156	.056	7/16x1 1/4"	24c
18 L 573	GEM-616	.06	7/16x1 1/4"	24c
18 L 574	GEM-6168	.068	7/16x1 1/4"	26c
18 L 575	GEM-601	.1	7/16x1 1/4"	26c
18 L 576	GEM-6015*	.15	3/8x1 1/4"	29c
18 L 577	GEM-602*	.2	3/8x2 1/4"	41c
18 L 578	GEM-6022*	.22	3/8x2 1/4"	41c
18 L 579	GEM-6025*	.25	3/8x2 1/4"	32c
18 L 580	GEM-6027*	.27	1x2 1/4"	41c
18 L 581	GEM-6033*	.33	1x2 1/4"	41c
18 L 582	GEM-6047*	.47	1x2 1/4"	47c
18 L 583	GEM-605*	.5	1x2 1/4"	47c
18 L 584	GEM-6068*	.68	1x2 1/4"	47c
18 L 585	GEM-61*	1.0	1x2 1/4"	73c

1600 VOLTS DC WORKING

No.	Type	Mfd	Size	NET
18 L 747	GEM-1623	.003	7/16x1 1/4"	32c
18 L 748	GEM-16233	.0033	7/16x1 1/4"	32c
18 L 749	GEM-1624*	.004	7/16x1 1/4"	32c
18 L 750	GEM-16247*	.0047	7/16x1 1/4"	32c
18 L 751	GEM-1625*	.005	7/16x1 1/4"	32c
18 L 752	GEM-1626*	.006	7/16x1 1/4"	32c
18 L 754	GEM-16268*	.0068	7/16x1 1/4"	38c
18 L 755	GEM-1627*	.007	7/16x1 1/4"	32c
18 L 757	GEM-1628*	.008	7/16x1 1/4"	38c
18 L 758	GEM-16282*	.0082	7/16x1 1/4"	35c
18 L 759	GEM-1611*	.01	7/16x1 1/4"	35c
18 L 761	GEM-1612*	.02	7/16x1 1/4"	41c
18 L 385	GEM-1613*	.03	7/16x1 1/4"	41c
18 L 386	GEM-1614*	.04	7/16x1 1/4"	41c
18 L 762	GEM-1615*	.05	7/16x1 1/4"	41c
18 L 387	GEM-1621*	.001	7/16x1 1/4"	41c
18 L 388	GEM-1622*	.002	7/16x1 1/4"	41c
18 L 966	GEM-3031	.0001	7/16x1 1/4"	91c
18 L 967	GEM-3035	.0005	7/16x1 1/4"	65c
18 L 968	GEM-3021	.001	7/16x1 1/4"	65c
18 L 969	GEM-3023	.003	7/16x1 1/4"	68c
18 L 970	GEM-3025	.005	7/16x1 1/4"	68c
18 L 971	GEM-3011	.01	7/16x1 1/4"	82c
18 L 972	GEM-3013	.03	1x2 1/4"	92c
18 L 973	GEM-3015	.05	1x2 1/4"	94c
18 L 974	GEM-6335	.0005	3/8x1 1/4"	79c
18 L 975	GEM-621	.001	3/8x1 1/4"	79c
18 L 976	GEM-622	.002	3/8x1 1/4"	85c
18 L 977	GEM-623	.003	3/8x2 1/4"	1.03
18 L 978	GEM-625	.005	3/8x2 1/4"	1.09
18 L 979	GEM-6275	.0075	1x2 1/4"	1.23
18 L 980	GEM-611	.01	1x2 1/4"	1.23
18 L 950	GEM-10035§	.0005	3/8x1 1/4"	.88
18 L 951	GEM-10021§	.001	1 1/8x2 1/4"	1.23
18 L 952	GEM-15031†	.0001	3/8x2 1/4"	1.

Centralab Ceramic Capacitors

850S TRANSMITTING CAPACITORS

High-quality ceramic capacitors for use in RF power circuits. Can be employed in transmitters, induction heaters, electronic welding apparatus and X-ray units. Have extremely low power factor. "Double cup" construction provides high mechanical strength and long leakage paths. Silver electrodes fired to ceramic. 1/2"-long hex stud terminals with 6-32 tapped holes. †Negative temperature coefficient of 750 parts/million/°C. *Zero temperature coefficient. ±10% tolerance. Series 858S are same size and style; Hi-K dielectric; 3/8"x1 1/2" dia. = 20% tolerance. ‡Based on 30°C temp. rise. Av. shpg. wt., 2 oz.



Stock No.	Mfr's Type	Mmf.	WVDC	RF Load, 30 Mc	NET EACH				
					1-4	5-9	10-24	25-149	150-499
11 L 100	850S-25Z*	25	7500	7 amps					1.86
11 L 101	850S-50Z*	50	7500	10 amps					1.86
11 L 102	850S-50N†	50	7500	8.8 amps	2.65	2.38	2.20	1.99	1.67
11 L 103	850S-75N†	75	7500	10 amps					1.67
11 L 104	850S-100N	100	5000	9.8 amps					1.67
11 L 107	858S-500	500	5000		2.65	2.38	2.20	1.99	1.84
11 L 108	858S-1000	1000	5000						1.84

FEED-THRU HI-KAPS

Tiny ceramics designed for single-hole mounting. Permit convenient feeding of leads through chassis or shields and at the same time provide exceptionally effective RF by-passing. Special construction virtually eliminates lead inductance. Rated 500 WVDC. Type FT has 12-28 mounting nut and .050" tinned copper leads with hooked ends to facilitate soldering. MFT has 1/4" dia. flange, mounts in 1/2" dia. hole and is attached by soldering to chassis (has No. 16 leads). Tolerance: *±20%; †-20 to +50%; ‡±10%; †guaranteed minimum value. Av. shpg. wt., 2 oz.



TYPE FT

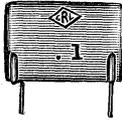
Stock No.	Mfr's Type	Mmf	NET EACH		
			1-24	25-99	100-249
11 L 390	FT-500	*500			
11 L 391	FT-1000	*1000			
11 L 392	FT-1500	*1500	59c	47c	39c
11 L 393	FT-1800	*1800			
11 L 394	FT-2300	*2300			

TYPE MFT MINIATURES

Stock No.	Mfr's Type	Mmf	NET EACH		
			1-24	25-99	100-249
11 L 488	MFT-50	§50			
11 L 489	MFT-100	§100			
11 L 490	MFT-500	§500	.29	.23	.196
11 L 491	MFT-1000	§1000			

DF FLAT PLATE HI-KAPS

Unusually thin, compact ceramics with capacities up to .1 mfd. Excellent for use in bypass and filter applications. Offer exceptionally high stability. Rated at 600 working volts DC. Tolerance: all guaranteed minimum value, except *+50% to -20%. No. 20 tinned leads firmly anchored in capacitor body. Capacity and working voltage are stamped on all capacitors. Size of DF-104 and DF-753 is 1 1/16"x1 1/8" x 1/8"; size of Type DF-503, Type DF-403 and Type DF-303 is 1 1/16"x1 1/8" x 3/32". Av. shpg. wt., 3 oz.



Stock No.	Mfr's Type	Mfd	NET EACH		
			1-24	25-99	100-249
11 L 245	DF-104*	.1	47c	37c	35c
11 L 246	DF-753	.075	47c	37c	35c
11 L 247	DF-503	.05	41c	32c	31c
11 L 248	DF-403	.04	41c	32c	31c
11 L 249	DF-303	.03	41c	32c	31c

UK ULTRA-KAP MINIATURE DISC CAPACITORS

New disc ceramic capacitors designed to meet the small size and high capacitance requirements of transistor circuitry. Specially engineered for low-voltage bypass and coupling applications. Present extremely low power factors. Supplied in capacitance values from 0.22 to 2.2 mfd. Insulated with double coating of "Durez" and impregnated with high-vacuum wax to withstand extreme temperatures, humidity and vibration. Provide capacitance values from .22 to 2.2 mfd. in diameters from only 1/4 to 3/4". Rated 3 working volts DC. All units stamped with capacity and voltage ratings. Tolerance: guaranteed minimum value. 3/2" thick. No. 22 tinned copper leads. Av. shpg. wt., 2 oz.



Stock No.	Mfr's Type	Mfd	Dia.	NET EACH		
				1-24	25-99	100-249
11 L 293	UK-224	.22	1/4"	.32	.25	.216
11 L 294	UK-474	.47	3/8"	.32	.25	.216
11 L 295	UK-105	1.0	3/8"	.44	.35	.29
11 L 296	UK-225	2.2	3/4"	.53	.42	.35

HI-VO-KAP UNIVERSAL CAPACITORS

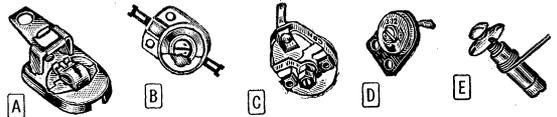
Type TV-207. High-voltage TV-20 ceramic capacitor with set of 7 attachable terminals. Ideal for service shops—provides maximum coverage with a minimum of inventory. Capacitance, 500 mfd. Rated 20,000 working volts DC, 40,000 volts test. Employs heavy-duty construction—molded plastic insulation, High-K ceramic insulation and rugged, threaded-hole terminal studs firmly bonded to the capacitor body. Terminals seat in studs without air gap—eliminates internal corona. Tolerance: -20% to +50%. Size, 1" dia. x 1 1/8". Shpg. wt., 5 oz.

11 L 016. NET.....1.09

TVK-5-50. Five of above capacitors in a convenient plastic case with 5 sets of 10 terminals. Shpg. wt., 1 lb.

11 L 017. NET.....5.39

CERAMIC-DIELECTRIC TRIMMERS



Compact, highly stable trimmer capacitors with ceramic dielectric. Full capacity range with 180° rotation. Balanced rotor and heavy spring pressure for excellent stability under vibration. Silver is fired to stator and rotor, which make contact on a flat optically ground surface to eliminate air space. Rated 600 WVDC. Power factor: less than 0.2% at 1 mc. Capacitance drift: ±0.75% or ±0.5 mfd, whichever is greater. Types 820 have ceramic base, 822 and 823 steatite base, 827 phenolic base, 829 are tubular ceramic (with mtg. screw and lock-nut). Types 822 and 823 are made to JAN specifications. Letter N in Type No. indicates negative temperature coefficient, Z indicates zero temperature coefficient. *body length. Av. shpg. wt., 1 oz.

Stock No.	Mfr's Type	Fig.	Mmf	Base Size	NET EACH		
					1-24	25-99	100-249
11 L 381	820-D		1-3.5				
11 L 382	820-A		2.5-6				
11 L 383	820-B	A	5-20	5/8"x2 1/2"	.71	.56	.47
11 L 384	820-C		7-35				
11 L 650	822-DN		2-6				
11 L 651	822-EN		4-30				
11 L 125	822-CN	B	4.5-25	27/32"x2 1/2"	.88	.70	.59
11 L 124	822-BN		7-45				
11 L 123	822-AN		8-50				
11 L 652	822-DZ		1.5-3				
11 L 653	822-EZ		1.5-7				
11 L 129	822-CZ		2-7.5				
11 L 128	822-BZ	B	2.5-13	27/32"x2 1/2"	.88	.70	.59
11 L 654	822-FZ		3-12				
11 L 127	822-AZ		4.5-25				
11 L 512	823-DN		8-50				
11 L 511	823-BN		10-100				
11 L 510	823-AN		20-125				
11 L 515	823-DZ	C	6-25	1 1/16"x1 1/2"	2.06	1.62	1.62
11 L 514	823-BZ		10-50				
11 L 513	823-AZ		12-60				
11 L 516	827-A		2.5-7				
11 L 517	827-B		3.5-12				
11 L 518	827-C	D	6-30	1 7/32"x3/4"	.73	.58	.49
11 L 519	827-D		7-35				
11 L 400	829-3		5-3	1/2"	.29	.23	.196
11 L 401	829-4		1-4	3/8"	.29	.23	.196
11 L 402	829-6	E	1-6	3/8"	.29	.23	.196
11 L 403	829-7		1-7.5	3/4"	.33	.28	.235
11 L 404	829-10		1.5-10	3/4"	.35	.28	.235

LOW-VOLTAGE CAPACITORS



Extremely compact, high-capacity, low-voltage ceramic capacitors. Have durable durez resin insulation. Designed especially for transistor circuits and other subminiature applications. Ruggedly constructed to resist the effects of heat, moisture and vibration. All units are stamped with capacity. Type DA: 1/2"x1/2"x1/8" thick, tolerance -20% to +100%, 30 WVDC. Type DDA: 3/8" dia. x 3/8" thick, tolerance -30% to +80%, 75 WVDC. Type DM: 1/2"x3/8"x1/8" thick, tolerance *-20% to +50% and †-20% to +80%, 150 WVDC. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Mfd	NET EACH		
			1-24	25-99	100-249
11 L 627	203	.02	.23	.18	.156
11 L 628	503	.05	.38	.30	.25
11 L 629	104	.1	.56	.44	.37

TYPE DDA

11 L 630	503	.05	.29	.23	.196
11 L 631	104	.1	.53	.42	.36

TYPE DM

11 L 632	101*	.0001	.20	.16	.137
11 L 633	201*	.0002	.20	.16	.137
11 L 635	501*	.0005	.20	.16	.137
11 L 636	102*	.001	.26	.20	.176
11 L 637	202*	.002	.26	.20	.176
11 L 638	302†	.003	.26	.20	.176
11 L 639	502†	.005	.38	.30	.25
11 L 640	103†	.01	.38	.30	.25
11 L 641	2-502†	2x.005	.53	.42	.36

ATTENTION INDUSTRIAL BUYERS!

Allied now offers OEM prices on the Centralab capacitors on this page (except 850S series) in quantities of 250-499 and 500-999. Additionally, quantity orders will be bulk packed for your convenience. All capacitors listed are immediately available from the most complete stock of electronic components in the world. We can also supply any other Centralab capacitors in the quantity you require—write to our Industrial Division for prompt quotations and rapid delivery schedules.

Centralab Ceramic Capacitors

INDUSTRIAL QUANTITIES IN STOCK AT OEM PRICES

SERIES DD DISC CERAMICS



Compact, rugged disc ceramic capacitors designed for bypass and coupling or filter applications. Sizes range from 1/4 to 7/8" dia. Tolerance = 20% except ± 0.5 mfm, $\pm 10\%$, guaranteed minimum value and ** - 20% to 80%. Capacitors are specially made to withstand extreme temperature, humidity and vibration. Av. shpg. wt., 2 oz.

DD 1000 VOLTS (except ± 600 v.)

No.	Type	Mmf	No.	Type	Mmf
LL 406	3R3	3.3	LL 429	331	330
LL 407	050		LL 430	361	360
LL 420	060	6	LL 431	401	400
LL 408	6R8	6.8	LL 432	401	400
LL 522	080	8	LL 433	471	470
LL 409	100*	10	LL 434	501	500
LL 423	120*	12	LL 435	561	560
LL 410	150*	15	LL 436	601	600
LL 411	200*	20	LL 437	681	680
LL 525	220*	22	LL 438	751	750
LL 412	250*	25	LL 439	801	800
LL 527	270*	27	LL 532	821	820
LL 413	330*	33	LL 437	102	1000
LL 414	390*	39	LL 538	122	1200
LL 415	470*	47	LL 539	132	1300
LL 416	500*	50	LL 438	152	1500
LL 417	560*	56	LL 541	182	1800
LL 418	680*	68	LL 439	202	2000
LL 419	750*	75	LL 542	222	2200
LL 529	820*	82	LL 543	252	2500
LL 420	101*	100	LL 544	272	2700
LL 421	121*	120	LL 440	302	3000
LL 422	131*	130	LL 600	332	3300
LL 423	151*	150	LL 01	392	3900
LL 424	181*	180	LL 602	402	4000
LL 425	201*	200	LL 441	472	4700
LL 426	221	220	LL 037	502	5000
LL 427	251	250	LL 604	562	5600
LL 428	271	270	LL 605	682	6800
LL 428	301	300	LL 455	103	10000

1-24, NET EACH 15c
25-99, EACH 12c
100-249, EACH 10c

No.	Type	Mfd	No.	Type	Mfd
LL 106	1032	.01	LL 042	203	.02
LL 442	5022	.005			

1-24, NET EACH 18c
25-99, EACH 14c
100-249, EACH 12c

DISC CERAMIC CAPACITOR KITS

DDK-200 Ceramic Capacitor Kit. 200 Type DD disc ceramics (described above). All are 1000 DCWV, except 1600 DCWV. 5 of each—5, 10, 25, 33, 47, 50, 68, 120, 150, 180, 220, 250, 270, 300, 330, 390, 470, 500, 680, 1500, 3000, 4700; $\pm 10,000$ mfm. 10 of each—100, 200 mfm. 15 of each—1000, 5000; $\pm 20,000$ mfm. 20 of each—10,000 mfm. Size of cabinet (HWD), $4\frac{1}{4} \times 6\frac{1}{2} \times 1\frac{1}{8}$ " Shpg. wt., 6 lbs. 18 L 912. NET 30.62

DD16 1600-VOLT BUFFER CAPACITORS

No.	Type	Mfd	NET EACH		
			1-24	25-99	100-249
LL 456	302	.003	21c	16c	14c
LL 470	402	.004			
LL 371	502	.005			
LL 372	602	.006			
LL 457	702	.007			
LL 373	752	.0075			
LL 374	802	.008			
LL 375	103	.01			
LL 376	153**	.015	35c	28c	24c

DD30 3000 VOLTS

No.	Type	Mmf	No.	Type	Mmf
LL 607	250	25	LL 617	221	220
LL 609	470	47	LL 618	251	250
LL 610	500	50	LL 619	271	270
LL 611	560	56	LL 620	471	470
LL 612	680	68	LL 621	501	500
LL 613	820	82	LL 622	102	1000
LL 614	101	100	LL 624	202	2000
LL 616	181	180	LL 626	502	5000

1-24, NET EACH 24c
25-99, EACH 19c
100-249, EACH 16c

DD60 6000 VOLTS

No.	Type	Mmf	No.	Type	Mmf
LL 680	100	100	LL 475	151	150
LL 681	150	150	LL 476	181	180
LL 462	250	25	LL 477	221	220
LL 466	390	39	LL 479	251	250
LL 467	470	47	LL 480	271	270
LL 468	500	50	LL 682	391	390
LL 469	560	56	LL 485	471	470
LL 470	680	68	LL 486	501	500
LL 472	820	82	LL 683	751	750
LL 473	101	100			

1-24, NET EACH 29c
25-99, EACH 23c
100-249, EACH 20c

No.	Type	Mmf	No.	Type	Mmf
LL 445	102	1000	LL 448	202	2000
LL 447	152	1500			

1-24, NET EACH 50c
25-99, EACH 32c
100-249, EACH 33c

SERIES TC TEMPERATURE-COMPENSATING CAPACITORS



Comply with JAN-C-20A specs. TCZ is NPO: capacity remains constant from -20 to +85°C. TCN has negative coefficient: N750, or 750 parts/million/°C. A variety of other temperature coefficients may be obtained by putting both types of capacitors in parallel. All units rated 600 working volts DC. *Tolerance. Av. shpg. wt., 2 oz.

TC CAPACITOR SIZES

TYPE TCZ			TYPE TCN		
Cap. Mmf	Size		Cap. Mmf	Size	
0.5 to 24	$\frac{1}{4} \times \frac{3}{8}$ "		3.3 to 62	$\frac{1}{2} \times \frac{3}{8}$ "	
25 to 100	$\frac{1}{2} \times \frac{1}{2}$ "		68 to 160	$\frac{1}{2} \times \frac{1}{2}$ "	
62 to 56	$\frac{1}{2} \times \frac{3}{8}$ "		180 to 270	$\frac{1}{2} \times \frac{1}{2}$ "	
160 to 150	$\frac{3}{32} \times 1\frac{1}{8}$ "		300 to 430	$\frac{3}{32} \times 1\frac{1}{8}$ "	
160 to 300	$\frac{3}{32} \times 1\frac{1}{8}$ "		470 to 750	$\frac{3}{32} \times 1\frac{1}{8}$ "	

TYPE TCZ NEGATIVE-POSITIVE-ZERO (NPO)

No.	Mmf	Tol.*	No.	Mmf	Tol.*
LL 200	.5		LL 215	27	
LL 201	.68		LL 216	30	
LL 202	1.0	± 2.5 mfm	LL 217	33	
LL 203	1.5		LL 219	39	
LL 204	2.2		LL 220	43	
LL 205	3.3		LL 221	47	
LL 206	4.7	± 5 mfm	LL 493	50	$\pm 2\%$
LL 207	6.8		LL 222	51	
LL 208	10		LL 223	56	
LL 209	12		LL 224	62	
LL 210	15		LL 225	68	
LL 211	18		LL 226	75	
LL 212	20	$\pm 2\%$	LL 227	82	
LL 213	22		LL 228	91	
LL 214	24		LL 229	100	
LL 219	25				

1-24, NET EACH 29c
25-99, EACH 23c
100-249, EACH 20c

No.	Mmf	Tol.*	No.	Mmf	Tol.*
LL 230	110	$\pm 5\%$	LL 232	130	$\pm 5\%$
LL 231	120		LL 233	150	

1-24, NET EACH 44c
25-99, EACH 35c
100-249, EACH 29c

No.	Mmf	Tol.*	No.	Mmf	Tol.*
LL 235	180		LL 238	240	
LL 236	200	$\pm 5\%$	LL 239	270	$\pm 5\%$
LL 237	220		LL 240	300	

1-24, NET EACH 59c
25-99, EACH 47c
100-249, EACH 39c

TYPE TCN-NEGATIVE (N750)

No.	Mmf	Tol.*	No.	Mmf	Tol.*
LL 241	5	$\pm .5$ mfm	LL 265	56	
LL 250	10		LL 266	62	$\pm 2\%$
LL 251	12		LL 267	68	
LL 252	15		LL 268	75	
LL 253	18		LL 269	82	
LL 254	20		LL 271	100	
LL 255	22		LL 272	110	
LL 256	25	$\pm 2\%$	LL 273	120	
LL 257	27		LL 275	150	
LL 258	30		LL 276	160	
LL 259	33		LL 277	180	$\pm 5\%$
LL 261	39		LL 278	200	
LL 263	47		LL 279	220	
LL 264	50		LL 280	240	
LL 264	51		LL 281	270	

1-24, NET EACH 29c
25-99, EACH 23c
100-249, EACH 20c

No.	Mmf	Tol.*	No.	Mmf	Tol.*
LL 282	300	$\pm 5\%$	LL 284	360	$\pm 5\%$
LL 283	330		LL 285	390	

1-24, NET EACH 44c
25-99, EACH 35c
100-249, EACH 29c

No.	Mmf	Tol.*	No.	Mmf	Tol.*
LL 287	470	$\pm 5\%$	LL 290	620	$\pm 5\%$
LL 288	510		LL 291	680	$\pm 5\%$
LL 289	560		LL 292	750	

1-24, NET EACH 59c
25-99, EACH 47c
100-249, EACH 39c



BC TUBULAR CERAMIC "HI-KAPS"—TYPE D6

For bypass and coupling or filter applications. 600 WVDC. $\pm 10\%$ tolerance, except $\pm 20\%$, *GMV (guaranteed minimum value). 2 oz.

No.	Type	Mmf	No.	Type	Mmf
LL 545	030	3	LL 571	271	280
LL 546	050	5	LL 572	301	300
LL 547	100	10	LL 573	331	330
LL 548	120	12	LL 574	391	390
LL 549	150	15	LL 575	401	400
LL 550	180	18	LL 576	471	470
LL 551	200	20	LL 577	501	500
LL 552	220	22	LL 578	561	560
LL 553	250	25	LL 579	600	600
LL 554	270	27	LL 580	681	680
LL 555	330	33	LL 581	751	750
LL 556	390	39	LL 582	821	820
LL 557	470	47	LL 583	102	1000
LL 558	500	50	LL 584	122	1200
LL 559	560	56	LL 585	152	1500
LL 560	680	68	LL 586	182	1800
LL 561	750	75	LL 587	202	2000
LL 562	820	82	LL 588	222	2200
LL 563	910	91	LL 589	252	2500*
LL 564	101	100	LL 590	272	2700*
LL 565	121	120	LL 591	302	3000*
LL 566	151	150	LL 592	332	3300*
LL 567	181	180	LL 593	402	4000*
LL 568	201	200	LL 594	472	4700*
LL 569	221	220	LL 595	502	5000*
LL 570	251	250			

1-24, NET EACH 15c
25-99, EACH 12c
100-249, EACH 10c

D6 CAPACITOR SIZES

Cap. Mmf	Size	Cap. Mmf	Size
3 to 330	$\frac{1}{4} \times \frac{1}{2}$ "	1200 to 3000	$\frac{1}{4} \times \frac{3}{8}$ "
390 to 680	$\frac{1}{4} \times \frac{3}{8}$ "	3300 to 5000	$\frac{1}{2} \times \frac{3}{8}$ "
750 to 1000	$\frac{1}{2} \times \frac{1}{2}$ "	5600 to 10,000	$\frac{3}{16} \times \frac{1}{2}$ "

No.	Type	Mmf	No.	Type	Mmf
LL 596	562	5600*	LL 598	752	7500*
LL 597	682	6800*	LL 599	103	10,000*

1-24, NET EACH 32c
25-99, EACH 25c
100-249, EACH 22c

CAPACITOR KITS

D6K-200. 200 Type D6 BC tubular ceramic capacitors (described at left) in a 1-drawer steel cabinet—values from 5 to 10,000 mfm. 5 of each included, except 10 or 15 each of the most popular values. Size of cabinet, $4\frac{1}{4} \times 6\frac{1}{2} \times 1\frac{1}{8}$ ". Shpg. wt., 6 lbs. 18 L 914. NET 29.89

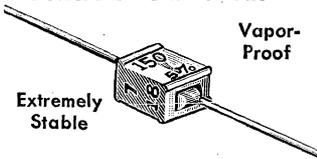
TCK-80. 80 temperature-compensating capacitors in 1-drawer steel cabinet. Two each of selected values from .68 to 750 mfm of the TCN and TCZ series (described at right). Size, $4\frac{1}{4} \times 6\frac{1}{2} \times 1\frac{1}{8}$ ". Shpg. wt., 6 lbs. 18 L 915. NET 24.01

Write to Allied's Industrial Division for OEM prices on DD, DD16, DD30, DD60, D6, TCZ and TCN ceramic capacitors in lots of 250-499 and

Industrial Capacitors—Capacitor Hardware

VITRAMON SERIES A PORCELAIN CAPACITORS

- Miniature Size
- Humidity Proof
- Ruggedly Built



Vitramon miniature, porcelain-dielectric capacitors are designed for use in the most demanding industrial applications. They possess outstanding mechanical and electrical characteristics. Vapor-proof, stable and quiet, introduce minimum circuit losses, operate dependably over a wide temperature range, and have exceptional mechanical strength.

Their vitreous dielectric is unaffected by humidity and maintains its insulation resistance after total immersion. Meet shock requirements of MIL-STD-202 and MIL-T-5422C and exceed vibration requirements of MIL-C-5A and MIL-C-1127A; also meet requirements of 2000-cps vibration at 20 G's acceleration. Used in industrial research applications where centrifugal accelerations in excess of 40,000 G's is created. Leads will stand 5 lb. pull. All capacitors listed below are rated at 500 WVDC, except *300 WVDC. Tolerance: $\pm 5\%$ or 0.25 mmf, whichever is greater. (Types with 1% or 2% tolerance available on special order—write for prices.) 1/4" leads are tin-clad copper, soft solder coated. Sizes range from 3/8x1/4 x 3/8" thick to 2 1/2x1 1/2x3/8" thick. Av. shpg. wt., 2 oz.

STOCK RANGES—SPECIFY CAPACITANCE VALUE

Capacitors from 1.0 to 220 mmf are Type CY13C; 270 to 470 mmf are Type CY17C; 560 to 2000 mmf are Type CY22C; 2400 to 6200 mmf are Type CY32C.

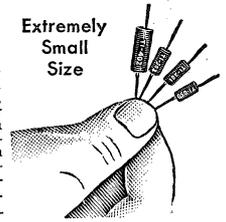
Mmf	Mmf	Mmf	Mmf	Mmf	Mmf	Mmf	Mmf	Mmf
1.0	5.1	12	24	47	100	270	680	3000
2.2	6.2	15	27	51	120	330	820	*3600
3.0	7.5	18	30	56	150	390	1000	*4300
3.6	9.1	20	33	62	180	470	*2000	*5100
4.3	10	22	39	82	220	560	2400	*6200

Stock No.	Values (See Table, Above)	NET EACH			
		1-49	50-99	100-249	250-499
74 LL 660	1.0 to 10 mmf	1.00	.95	.80	.75
74 LL 661	12 to 82 mmf	1.00	.96	.64	.60
74 LL 662	100 to 390 mmf	1.00	.96	.75	.70
74 LL 664	470 mmf	1.30	1.24	1.04	.98
74 LL 665	560 to 820 mmf	1.90	1.81	1.52	1.43
74 LL 666	1000 & 2000 mmf	2.16	2.05	1.73	1.62
74 LL 667	2400 & 3000 mmf	4.00	3.80	3.20	3.00
74 LL 668	3600 & 4300 mmf	5.40	5.13	4.32	4.05
74 LL 669	5100 & 6200 mmf	7.70	7.32	6.16	5.78

TEXAS INSTRUMENT "TAN-TI-CAP" SOLID TANTALUM ELECTROLYTIC CAPACITORS

- Small Size, Rugged Capacitors
- Long Operating and Storage Life
- Ideal for Transistorized Circuits

Extremely Small Size



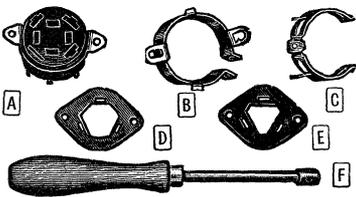
Small-sized solid tantalum electrolytic capacitors. Ideal for use in transistorized circuits, resistor-capacitor timing circuits, power supply circuits, etc. Excellent for control, computer and communication equipment for both military and commercial purposes. Useful in any application requiring small size, stable electrical characteristics, long life and high efficiency, reliability under severe operating conditions.

The hermetically sealed case can be mounted either vertically or horizontally on printed circuit boards. They are able to withstand both low and high frequency vibrations. Provide reliable, efficient operation over a wide temperature range—from -80°C to +85°C. Exhibit both long storage life and long operating life.

Meets moisture resistance requirements of MIL Standard 202A, Method 106; low-frequency vibration requirements of MIL Standard 202A, Method 201; high-frequency vibration requirements of MIL Standard 202A, Method 204. Have tinned brass cases 1/4" leads can be safely bent at angle to case. Leads withstand 3-lb. pull. Tol. $\pm 20\%$. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Mfd	Volts	Size	NET EACH	
					1-24	25-Up
73 L 781	T050	22	6	1 1/4x2 3/8"	3.75	2.25
73 L 782	T051	33	6	1 1/4x2 3/8"	3.95	2.37
73 L 783	T052	47	6	3/8x7/16"	4.22	2.54
73 L 784	T053	60	6	3/8x7/16"	4.50	2.70
73 L 785	T054	200	6	1 1/4x2 3/8"	9.16	5.50
73 L 786	T200	10	15	1 1/4x2 3/8"	3.88	2.32
73 L 787	T201	15	15	1 1/4x2 3/8"	3.98	2.38
73 L 788	T202	22	15	1 1/4x2 3/8"	4.40	2.64
73 L 789	T203	33	15	3/8x7/16"	4.77	2.86
73 L 790	T204	100	15	1 1/4x2 3/8"	9.85	5.91
73 L 791	T300	10	25	1 1/4x2 3/8"	2.19	1.47
73 L 792	T301	10	25	1 1/4x2 3/8"	4.02	2.42
73 L 793	T302	15	25	3/8x7/16"	4.70	2.82
73 L 794	T303A	35	25	3/8x7/16"	7.87	4.72
73 L 795	T304	55	25	1 1/4x2 3/8"	9.38	5.63
73 L 796	T400	4	35	1 1/4x2 3/8"	3.80	2.28
73 L 797	T401	8	35	3/8x7/16"	4.05	2.43

MALLORY MOUNTING HARDWARE



A complete assortment of commonly used mounting hardware for electrolytic capacitors. For Mallory Type FP or WP capacitors use MP, BP, PS and MW-100 units listed below. For Type TC, FP, WP and other tubular capacitors use VK brackets for vertical mounting, or TH spring clips for horizontal mounting. *Metal. †Phenolic. Av. shpg. wt., 3 oz.

No.	Type	Fig.	Size	NET
17 L 531	PS-4	A	1"	.41
17 L 532	PS-6	B	1 1/8"	.53
17 L 402	VR-1	B	1 to 1 1/4"	.09
17 L 413	VR-3	B	1 1/2 to 1 3/4"	.09
17 L 414	VR-4	B	1 1/2 to 1 3/4"	.12
17 L 415	VR-6	B	1 1/2 to 1 3/4"	.15
17 L 416	VR-8	B	2 to 2 1/2"	.18
17 L 412	TH-25	C	1 3/8 to 1 7/8"	.06
17 L 417	MW-100	F	Mtg. Wrench	1.03

Stock No.	Mfrs. Type	Fig.	Size	Per Pkg. of 3
18 L 414	MP-2	D*	3/4"	9c
18 L 415	MP-4	D*	1"	
18 L 416	MP-6	D*	1 1/8"	
18 L 417	BP-2	E†	3/4"	
18 L 418	BP-4	E†	1"	
18 L 419	BP-6	E†	1 1/8"	9c
18 L 420	TH-13	C	3/8"	
18 L 421	TH-15	C	1/2 to 1 1/8"	
18 L 422	TH-17	C	3/4 to 1 1/8"	9c
18 L 423	TH-19	C	3/4 to 1 1/8"	
18 L 424	TH-21	C	3/4 to 1 1/8"	

INSULATING SLEEVES

No.	Type	Size	EACH
17 L 510	CE-1	3/4x2"	6c
17 L 511	CE-3	1x2"	
17 L 512	CE-4	1x3"	
17 L 513	CE-5	1 1/2x2"	
17 L 514	CE-6	1 1/2x3"	
17 L 515	CE-7	1x2 1/2"	9c
17 L 516	CE-8	1x4"	
17 L 517	CE-9	1 1/2x2 1/2"	
17 L 518	CE-10	1 1/2x4"	

SANGAMO MICA CAPACITORS

TYPE E "HAM" MICAS

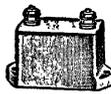
For amateur equipment. Tol. $\pm 20\%$. 3 1/2 x 1/8 x 2 1/8". Mtg. centers: 7/8". Terminals 3/4" long; 12-24 thrd. studs, spaced 1 1/2" apart. *Max. under ICAS conditions. Av. shpg. wt., 1/2 lb.



No.	Type	Mfd	Volts*	EACH
74 L 617	E-711	.01	7,000	12.38
74 L 617	E-1023	.003	10,000	10.61
74 L 598	E-1024	.004	10,000	11.00
74 L 599	E-1025	.005	10,000	11.79
74 L 596	E-1235	.0005	12,500	6.47
74 L 126	E-1221	.001	12,500	6.47
74 L 127	E-1222	.002	12,500	8.82
74 L 618	E-1223	.003	12,500	10.61

TYPE F INDUSTRIAL MICAS

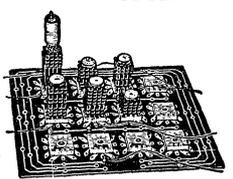
Extra heavy-duty capacitor. Sizes: F1, 1 1/2x2 1/4x3/8"; F2, 2 1/4x3 1/4x1 1/4"; F3, 3 7/8x2 1/8x 3/8". Tolerance, $\pm 5\%$. *Continuous duty rating. Av. shpg. wt., 1/2 lb.



No.	Type	Mfd	Peak WV*	EACH
74 L 632	F2-0501	.01	500	11.29
74 L 631	F2-1515	.05	1500	10.17
74 L 620	F1-335	.0005	3000	7.41
74 L 629	F2-325	.005	3000	10.17
74 L 623	F2-532	.0002	5000	
74 L 624	F2-533	.0003	5000	
74 L 625	F2-535	.0005	5000	23.08
74 L 626	F2-521	.001	5000	
74 L 627	F2-522	.002	5000	
74 L 628	F2-523	.003	5000	28.58
74 L 634	F3-821	.001	8000	
74 L 636	F3-825	.005	8000	

AEROVOX CIRCUIT MODULES

Modules are an entirely new concept in electronic circuitry assembly! They are complete and extremely compact standard basic circuits consisting of miniaturized components including capacitors, resistors, etc. mounted on stacked wafers. Will save hours of time and effort for design engineers and others who require basic circuit elements for quick production and testing of prototype and experimental electronic developments. These basic circuits are "on hand" when needed. They are easily inserted into breadboard; can be changed about as desired. Av. shpg. wt., 1 lb.



Stock No.	Mfr's Type	Description	NET EACH
12 L 677	P1002	Low-Level Cathode Follower	7.74 8.08
12 L 678	P1003	Dual Cathode Follower	
12 L 679	P1004	Cascade Intermediate Video Amplifier	10.39
12 L 680	P1005	Triode Video Driver Amplifier	
12 L 681	G1001	PRF Multivibrator	12.89
12 L 682	R1001	DC Regulator ± 300 v.	20.68
40 H 404	MBB-12	12-Pin. Breadboard Phenolic Socket	19.60
12 L 683	A1001	Low-Level Lin. Amp.	5.14
12 L 684	A1002	Inter. Lin. Amp.	5.14
12 L 685	A1003	Phase Inverter-Driver Linear Amplifier	4.16
12 L 688	R1002	DC Regulator ± 150 v.	10.49

CORNELL-DUBILIER CAPACITOR-MOUNTING HARDWARE

Widely used mounting hardware for all types of capacitors. Universal clip (Fig. L) adjusts to fit various sizes. Av. shpg. wt., 2 oz.



Stock No.	Fig.	Description	Pkg. of 2
19 L 478	G	Mtg. Ring; 1 1/2" dia. cans	.23
19 L 479	G	Mtg. Ring; 1 1/2" dia. cans	.23
19 L 480	G	Mtg. Ring; 1 1/2" dia. cans	.35
19 L 481	H	Mtg. Clip; 3/4" dia. cans	.35
19 L 482	H	Mtg. Clip; 1" dia. cans	.35
19 L 483	H	Mtg. Clip; 1 1/8" dia. cans	.35
19 L 484	J	"C" Clamp; 3/8-3/4" cans	.35
19 L 485	J	"C" Clamp; 1/2-1" cans	.35
19 L 489	K	Mtg. Strap; I.D. 3/8"	.17
19 L 491	K	Mtg. Strap; I.D. 3/8"	.17
19 L 492	K	Mtg. Strap; I.D. 3/8"	.17

Stock No.	Fig.	Description	Pkg. of 2
19 L 493	L	For 3/8-7/8" dia. cans	.35
19 L 494	L	For 1/2-3/4" dia. cans	.35
19 L 495	L	For 3/8-1 1/8" dia. cans	.35
19 L 496	L	For 3/4-1 3/8" dia. cans	.35
19 L 497	L	For 7/8-1 1/2" dia. cans	.35
19 L 498	L	For 1-1 1/8" dia. cans	.35
19 L 499	L	For 1 1/8-1 3/4" dia. cans	.35

Packaged Circuits and Printed Circuit Kits

SPRAGUE BULPLATE PRINTED CIRCUITS



Each unit consists of a self-contained "package"—capacitors, resistors and, in certain units, inductance. There is no need to waste time on excessive wiring and unwiring operations—simply replace the entire circuit section. A moisture sealed shock-resistant ceramic base firmly holds printed circuit wiring and all components in place. Capacitors are rated at 500 v. DC, 1000 v. test, while the maximum voltage to be applied across the resistors is 250 v. DC, except w-1 where all elements are rated 100 v. DC. Av. shpg. wt., 2 oz.

18 L 860. New Printed Circuit Guide No. K-351. An informative catalog listing complete information on Sprague's Bulplate printed circuits. Contains diagrams of all circuits listed below. Includes replacement information on sets produced by leading radio and television manufacturers. **NO CHARGE** when requested with your next order.

No.	Type	Description	NET
18 L 861	D-1	Diode Filter	.35
18 L 862	D-2	Diode Filter	.35
18 L 863	D-3	Diode Filter	.35
18 L 864	DP-1	Detector Pentode Coupl.	.73
18 L 865	DT-1	Audio Output	.59
18 L 866	DT-2	Audio Output	.68
18 L 869	DT-5	Audio Output	.68
18 L 870	D T-6	Audio Output	.68
18 L 871	F-1	Decoupling Filter	.50
18 L 873	P-1	Pentode Coupling	.53
18 L 874	P-2	Pentode Coupling	.53
18 L 875	P-3	Pentode Coupling	.59
18 L 882	T-1	Triode Coupling	.44
18 L 883	T-2	Triode Coupling	.44
18 L 885	T-4	Triode Coupling	.41
18 L 886	T-5	Triode Coupling	.44
18 L 887	VI/V3	Vertical Integrator	.65
18 L 888	V-2	Vertical Integrator	.73
18 L 890	V-4	Vertical Integrator	.65
18 L 891	V-5	Vertical Integrator	.59

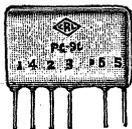
SPRAGUE BULPLATE MULTIPLE CERAMIC CAPACITORS



Compact, self-contained assemblies containing all the capacitors used in one or more stages of a radio circuit. Units are rated at 500 WVDC, 1000 VDC test. Av. shpg. wt., 2 oz.

No.	Type	Mfd	Size	NET
15 L 626	34C3	.002, .00022, .00022, .005	1 1/8 x 5/8 x 3/32"	.44
15 L 627	34C4	.002, .00015, .005, .0001, .005	1 1/8 x 5/8 x 3/32"	.53
15 L 628	34C5	.002, .005, .0001, .005	1 1/8 x 5/8 x 3/32"	.44
15 L 629	34C6	3X.004	1 1/8 x 5/8 x 3/32"	.38

CENTRALAB PACKAGED ELECTRONIC CIRCUITS (PEC)



Complete, printed electronic circuits—with resistors, capacitors, and in some cases, inductance. Ideal for the replacement of entire circuit sections in radio and TV sets. The printed-circuit wiring and all components are bound to a ceramic base and sealed against moisture, temperature change and

physical shock. Av. shpg. wt., 2 oz.
18 L 893. PC-5 Packaged Electronic Circuit Guide. Contains complete data—**NO CHARGE** when requested with your next order.

No.	Type	Description	NET
11 L 147	PC-50	Diode Load Filter	35¢
11 L 148	PC-51	Diode Load Filter	35¢
11 L 150	PC-70	Triode Couplate	41¢
11 L 151	PC-71	Triode Couplate	41¢
11 L 152	PC-80	Triode Couplate	44¢
11 L 153	PC-81	Triode Couplate	44¢
11 L 165	PC-84	Triode Couplate	44¢
11 L 154	PC-90	Pentode Couplate	53¢
11 L 155	PC-91	Pentode Couplate	53¢
11 L 166	PC-92	Pentode Couplate	59¢
11 L 156	PC-100	Vertical Integrator	65¢
11 L 157	PC-101	Vertical Integrator	73¢
11 L 356	PC-104	Vertical Integrator	65¢
11 L 357	PC-105	Vertical Integrator	65¢
11 L 358	PC-106	Vertical Integrator	59¢
11 L 158	PC-150	Audio/Det. Couplate	59¢
11 L 170	PC-151	Audio/Det. Couplate	68¢
11 L 359	PC-154	Audio/Det. Couplate	59¢
11 L 360	PC-157	Audio/Det. Couplate	59¢
11 L 361	PC-158	Audio/Det. Couplate	68¢
11 L 362	PC-159	Audio/Det. Couplate	68¢
11 L 171	PC-160	Pentode/Det. Couplate	73¢
11 L 172	PC-165	Pentode/Det. Couplate	79¢
11 L 368	PC-260	Sync Takeoff Couplate	73¢
11 L 369	PC-262	Sync Takeoff Couplate	73¢
11 L 380	PC-263	Sync Takeoff Couplate	73¢
18 L 901	PC-314	Retrace Suppression	59¢
18 L 908	PC-327	Pentode/Det. Couplate	73¢

NEW CENTRALAB PACKAGED ELECTRONIC CIRCUIT KIT

Type PCK-40. 40 assorted packaged electronic circuit units in one-drawer steel Equipto cabinet. Contains packaged circuits most frequently used in popular electronic equipment. All units are individually packed in transparent plastic package with part numbers clearly shown for easy identification.

Kit consists of: 2—PC-81 Triode Couplates; 2—PC-91 Pentode Couplates; 10—PC-100, 5—PC-101, 2—PC-104, 2—PC-105, 2—PC-106 Vertical Integrators; 5—PC-150, 2—PC-151, 2—PC-158, 2—PC-159 Audio Detector Couplates; 2—PC-160, 2—PC-165 Pentode-Detector Couplates.
Sturdily constructed Equipto cabinet measures 11 1/2" x 10 1/2" x 4 1/2". Shpg. wt., 6 lbs.
11 L 379. NET..... 25.90

CENTRALAB COMPONENTS



TRANSISTOR AMPLIFIER

Ultra-miniature amplifiers—stamp or pencil-eraser size! Circuit includes transistors, capacitors, resistors, etc. For computers, pocket-size radios or recorders, hearing aids, and other ultra-miniature applications. Specially designed high-gain low-noise transistors hermetically sealed in stearite base. Output will drive headphones.

TA-6 Type TA-6. 1-stage. Response: 250-40,000 cps ± 5 db. Gain: 21 db at 1 kc. Input Imp.: 1000 ohms. Supply Voltage: 1.345 v.; 5 ma drain. Output: 1/2 mw. 1/8 x 1/8" dia. Shpg. wt., 3 oz.
11 L 377. 1 to 4, NET EACH..... 9.80
5 to 9, EACH..... 8.82

Type TA-11. 4-stage. Response: 250-40,000 cps ± 5 db. Gain: 73 db at 1 kc. Input Impedance: 1000 ohms. Supply Voltage: 1.3-1.5 v. 4 ma drain. Output: 1 milliwatt. Size, 1 1/8 x 1/8 x 1/4". Shpg. wt., 4 oz.
11 LC 378. 1 to 4, NET EACH..... 29.40
5 to 9, EACH..... 26.46

Type TA-7. New, Single stage for output stage use. Response: ± 5 db. 250-40,000 cps. Gain: 26 db at 1 kc. Input Impedance: 500 ohms. Supply Voltage: 1.3 to 1.5 v.; 2 ma drain. Output: 1 mw @ 15% distortion or 1/2 mw @ 2% distortion. 1/8 x 3/8" dia. 3 oz.
18 L 911. 1 to 4, NET EACH..... 9.80
5 to 9, EACH..... 8.82



AMPEC AUDIO AMPLIFIER

3 stage. Operates on 2 1/2 v. "B" battery and 1.5 v. "A" battery. Response, 200-8000 cps. Gain of 4500 at 1 kc. PC-201 complete with tubes: One CK548DX; two CK512-A. Wt., 8 oz. PC-200 same but less tubes, wt., 4 oz. B16-228 volume control and switch for use with either Ampec unit. 5/8" dia. 1/2" deep with knob. Instructions. Wt., 3 oz.

11 L 160. Type PC-201. NET..... 14.70
11 L 159. Type PC-200. NET..... 8.82
30 M 419. Type B16-228. NET..... 2.35

AEROVOX RIGHT-ANGLE TUBE SOCKETS



Space-saving sockets permit horizontal placement of tubes. For use with printed circuits. Allow extremely compact chassis layout. Socket prongs insert easily into punched circuit board holes. Silver plated contacts. Molded Alkyl 430 body. Meets MIL specs. 3/16 x 1/8 x 1/16. 6 oz.
11 L 378. Type RAO. NET..... 97c
40 H 403. Type RATA. 7-Pin. NET..... 81c

HIGH-QUALITY PRINTED CIRCUIT KITS



A G.C. Model 683. Save time and minimize replacement of printed circuit components with this handy repair kit. Permits quick repair jobs on resistors, capacitors, coils, wiring, sockets, lugs, copper foil, etc.—a valuable service aid. Kit includes: foil, solder washers; solder; "solder ease" tool for tightening contacts, etc.; fiberglass brush for removing excess solder; 6-oz. spray can of silicone resin lacquer; solvent for removing surplus solder; tweezers; practice wiring board; and an Ungar soldering iron with special tip. With instructions. 7x12 1/2 x 3 1/2". Shpg. wt., 1 lb.
46 N 465. List, \$13.25. NET..... 7.79

A G.C. Type 682 Standard Kit. Complete printed circuit repair kit for quickly and easily making repair jobs on soldered components in printed circuits. Valuable service aid—simplifies replacement of soldered components in printed circuits and permits repairing of sockets, lugs, copper foil, etc. Complete kit includes: silicone resin lacquer, solvent, solder washers, soldering iron, handy soldering tool with brush (for cleaning and tightening up contacts, etc.) and tweezers. Supplied complete with instructions and time-saving suggestions. Shpg. wt., 1 lb.
50 N 170. List, \$8.25. NET..... 4.85



B Kepro Professional Kit. Etched circuit kit. A negative of the layout can be produced photographically, or manually with the negative materials supplied. Sensitized sheet of copper-clad XXXP phenolic is exposed through the prepared negative, then developed and etched. Kit contains: 2 sheets of 1/16" copper-clad phenolic 6x3"; 2 pieces negative mask; 1 printing frame glass; 2 printing frame clamps; 1 bottle developer; 2 bottles etching solution; 1 aluminum developing tray; 1 polystyrene etching tray; 1 cleaning pad; and a set of complete instructions. Shpg. wt., 2 1/2 lbs.
43 N 068. NET..... 5.29

C Kepro Standard Kit. This low-cost etching kit is supplied complete with all the materials needed for manually producing etched copper circuits. Simple to use—just draw the desired circuit on the copper clad XXXP phenolic using the etch-resistant coating supplied. Excess (unprotected) copper is removed with etching solution. Kit contains: 2 sheets of 1/16" copper-clad phenolic 6x3"; 1 bottle etch-resistant solution; 1 etching tray; 1 bottle etching solution; 1 cleaning pad; 1 brush; and instructions. Complete with convenient plastic case. Shpg. wt., 1 1/2 lbs.
43 N 069. NET..... 3.38

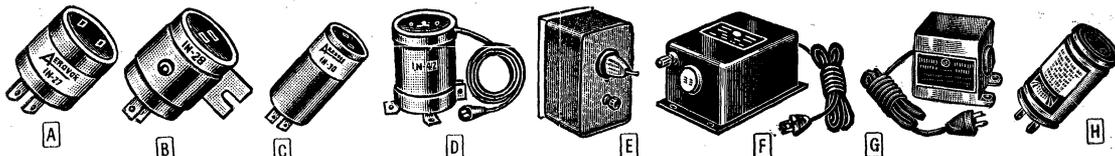


D Micro Circuit Kit. This printed circuit kit permits you to create all kinds of miniature-sized electronic equipment. Make resistors, capacitors, connecting wires and many other components. Kit also allows you to paint your own radio circuit and make rapid, easy repairs on existing printed circuits. Special materials supplied with kit include: Brush; silver conducting paint; low, medium, high and very high resistance paints; insulating lacquer; solvent; brush cleaner; the manual, "Design and Repair of Printed Circuits," plus other informative literature. In plastic case. Shpg. wt., 1 1/4 lbs.
43 N 070. NET..... 17.75

E Technics Kit. With this complete kit, it's very simple matter to set up operating prototypes of many different kinds of printed circuits. Kit contains all materials required for producing etched circuits. It includes: 7 single-sided, copper-clad laminates; 5 double-sided, copper-clad laminates, 17 assorted tube sockets; roll of tape resist; 1 bottle of liquid resist; photographic resist; etchant; terminals; layout paper; sample of etched process, etc. In plastic box, 9 1/4 x 3 1/2". Wt., 9 1/2 lbs.
43 NX 067. NET..... 27.00

Interference Filters—Auto Suppressors

PLUG-IN TYPE FILTERS FOR RADIO, TV AND APPLIANCES



AEROVOX INTERFERENCE FILTERS

- A Type IN-27.** A simple and inexpensive plug-in unit for use where interference is slight; electric shavers, etc. Diameter, 1 $\frac{1}{8}$ " x 1 $\frac{1}{2}$ " long. Shpg. wt., 5 oz. 70 B 096 List, \$1.50. NET 88c
- B Type IN-28.** For use where ground is at a considerable distance. Provides most efficient filtering action when mounted on appliance. Supplied with convenient mounting bracket. Diameter, 1 $\frac{1}{8}$ " x 2" long. Shpg. wt., 8 oz. 70 B 097 List, \$2.00. NET 1.18
- C Type IN-30.** Highly effective plug-in unit for local noise sources of variable character and severe intensity; auto call systems, barber clippers, cash registers, billing and calculating machines, food mixers, fruit juice extractors, dental machines, drink mixers, fans, hair dryers, etc. Diameter, 1 $\frac{3}{4}$ " x 3" long. Shpg. wt., 7 oz. 70 B 098 List, \$2.50. NET 1.47
- D Type IN-42.** Heavy-duty unit for serious interference from power transmission lines, vacuum cleaners, washing machines, refrigerators, dishwashers, electric typewriters, drills, etc. Filter is plugged into AC outlet—appliance or radio plugs into receptacle on filter. With mounting ring. Rated at 110-120 v. AC; 6 amps. Diameter, 2 $\frac{1}{2}$ " x 3 $\frac{3}{4}$ " long. Shpg. wt., 1 lb. 70 B 099 List, \$7.50. NET 4.41

SPRAGUE "FILTEROL" TYPE F-400

- E Effective filter** for suppression of moderate interference, with built-in screw for attachment directly to any standard duplex wall outlet. Most effective when used at appliance, but may also be used at receiver. Rated 105-125 v., AC-DC, 5 amps. 4 $\frac{1}{2}$ "x2 $\frac{3}{4}$ "x2 $\frac{1}{8}$ ". Wt., 3 $\frac{1}{2}$ lbs. 70 B 095. NET 7.30

CORNELL-DUBILIER "QUIETONE" FILTERS

- F Type IF-18.** Highly effective all-wave capacitive-inductive type of filter for suppression of severe interference. Used where ventilating or air conditioning units, washing machines, or machine tools interfere with reception on radio or TV. Bakelite case, 6x3 $\frac{3}{4}$ "x2 $\frac{1}{2}$ ", with line cord and plug attached. Binding post for attachment of ground wire, if used. Rated at 115 volts, AC-DC, 5 amps. Shpg. wt., 4 lbs. 70 B 120. List, \$9.20. NET 5.41
- G Type IF-19.** Effective capacitive-inductive type filter for use where interference is severe. Used to eliminate interference from electric fans, diathermy machines, neon signs, etc. Mounting holes for permanent attachment to baseboard, back of receiver or any convenient location. Terminal for ground connection. Rated 115 volts AC-DC, 5 amps. Bakelite case, 4x2 $\frac{1}{2}$ "x2 $\frac{1}{8}$ ". Shpg. wt., 1 $\frac{1}{2}$ lbs. 70 B 121. List, \$7.70. NET 4.53
- H Type IF-4.** Plug-in, cylindrical filter for suppression of medium-intensity interference produced by fluorescent lights, electric shavers and similar devices. Well-suited for use with small receivers such as AC-DC midjet sets, portable TV sets, etc. Filter plugs directly into wall; appliance or receiver plugs into filter. Rated 115 volts, AC-DC, 5 amps. 1 $\frac{1}{2}$ " diameter and 2" long. Shpg. wt., 5 oz. 70 B 125. List \$1.25. NET 73c
- I Type IF-6.** Convenient plug-in filter for elimination of moderate interference. Especially suitable for suppression of interference caused by fluorescent lights, electric shavers, and similar devices. Connects between power line and appliance, or between power line and receiver. Rated at 115 volts, AC-DC, 5 amps. Size, 1 $\frac{1}{2}$ " diameter, 2" long. Shpg. wt., 6 oz. 70 B 126. List, \$1.95. NET 1.15

WIRED-IN TYPE FILTERS AND AUTO SUPPRESSORS

CORNELL-DUBILIER "QUIETONE" FILTERS



- J Type IF-7A.** For installation at appliance. Capacitive-inductive type filter for suppression of severe interference. Attached to oil burners, electric motors in dishwashers, disposal units, washing machines, home workshop tools, etc. For single-phase 110-220 volt AC or DC. Rated 5 amps. Size, 6x6x4". Shpg. wt., 9 lbs. 70 B 124. List, \$13.75. NET 8.08
- K Type IF-24.** Exceptionally compact unit for wiring to appliances causing light to moderate interference in broadcast or TV receivers. Ideal for elimination of fluorescent light interference. Dual capacitive filter unit effectively suppresses buzzing introduced through power line. For 115 v., AC or DC. Shpg. wt., 8 oz. 70 B 122. List, \$1.25. NET 73c
- L Type IF-54.** General-purpose capacitive-inductive filter for use where moderate interference is present. For circuits drawing 2 amps or less from power line. Miniature size permits installation on almost any appliance or fluorescent fixture causing interference. Rated 110-220 volts, AC or DC. Shpg. wt., 8 oz. 70 B 114. List, \$2.50. NET 1.47

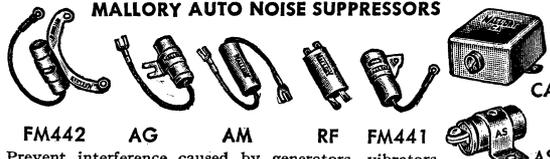
NEW FEDERAL ELECTRONICS TVI FILTER

- For Use With Any TV Receiver
- Greatly Reduces Interference
- Quick and Easy Installation



Precision built, 3-pl, high-pass filter for use with any TV set. Highly rated in nationally known product research magazine. Employs 8 capacitors and 6 coils in special-design printed circuit. Attenuation exceeds 46 db from 0-54 mc. Reduces interference caused by transmitters, neon signs, ignition systems, appliances, diathermy, X-ray equipment, heating systems, etc. Also aids in minimizing "snow" by suppressing interference in IF band. Exceptionally easy to install—attaches to input terminals on TV set. Hangs out of sight at rear of TV receiver. Plastic case, 2x3x1 $\frac{1}{2}$ ". Shpg. wt., 1/2 lb. 11 L 496. List, \$2.98. NET 1.75

MALLORY AUTO NOISE SUPPRESSORS



Prevent interference caused by generators, vibrators, AS switches and other spark-producing devices in auto, marine or aircraft equipment. All units are wax impregnated. AG types are protected from moisture, but not hermetically sealed. AS types are enclosed in metal cases with screw terminals and hermetically sealed—provide low RF impedance, recommended for extreme climate conditions. Both AG and AS types are for noise suppression use on generators, ammeters, and other electrical equipment where there is contact spark or noise radiation. AG442 also used in midjet aircraft motors. AG453 has shielded lead. FM441 and FM442 for Ford generators. AM454 for ammeter and gauges—has waxed-paper case, can be held in place with Mallory TH-17 clip (see Page 159). RF480 and RF481 used for vibrator hash and general noise suppression (have very low RF impedance)—both have waxed-paper case. RF481 requires Mallory TH-19 mounting clip (see Page 159). CA2754 hermetically sealed bathtub type is used for noise suppression in marine and aircraft equipment. Av. shpg. wt., 3 oz.

SPRAGUE INTERFERENCE FILTERS

Type IF. Compact multi-section interference filters for suppressing man-made radio and TV interference. Small and completely self-contained. For use on motors, thermostats, arcing devices, etc., up to 220 volts, AC or DC. Easily installed. Av. shpg. wt., 8 oz.

Stock No.	Mfr's Type	Fig.	Size	Sections	List	NET EACH
70 B 100	IF-15	M	1x2 $\frac{3}{8}$ "	Triple	\$2.60	1.53
70 B 105	IF-21	P	1x2 $\frac{3}{8}$ "	Dual	1.75	1.03
70 B 112	IF-31	N	3/4x2 $\frac{3}{8}$ "	Single	1.15	.68
70 B 113	IF-37	P	1x2 $\frac{3}{8}$ "	Triple	2.25	1.32

Filterol Types. Designed for connection in series with power supply lines of interference-producing industrial devices. A three-terminal network of matched, specially designed chokes and coils are inside the case, which functions as one of the terminals. The filter selected should have a higher rating than the continuous current rating of the device with which it is to be used. Type 4 utilizes "By-pass" capacitor, providing exceptionally strong attenuation at frequencies above 5 megacycles. All have convenient single-hole mounting; Types 2 and 3 are drilled for mounting at either side. Av. shpg. wt., 1 lb.

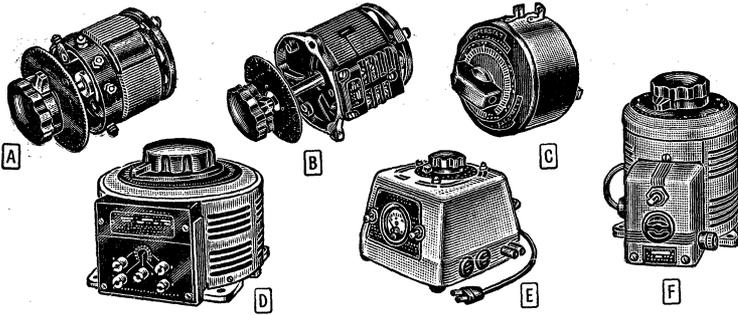


Types 2, 3

Stock No.	Type	Fig.	Amps	V.AC-DC	Size	List	NET
70 B 092	2	...	10	115	1 $\frac{1}{8}$ "x2x2"	\$14.80	8.70
70 B 093	3	...	35	115	1 $\frac{1}{8}$ "x2 $\frac{1}{2}$ "x3 $\frac{1}{8}$ "	27.40	16.11
70 B 094	4	R	20	115	1" dia. x1 $\frac{1}{2}$ " long	3.05	1.79

No.	Type	Mfd.	WVDC	Size	EACH
17 L 681	RF481	0.5	50	3/4x1 $\frac{1}{2}$ "	.53
17 L 728	CA275X	4.0	50	2x2x1"	1.75
17 L 676	FM441	0.5	100	1 $\frac{1}{4}$ x1 $\frac{1}{2}$ "	.50
17 L 680	RF480	0.5	100	1 $\frac{1}{4}$ x1 $\frac{1}{2}$ "	.47
17 L 721	AS125	0.01	100	1 $\frac{1}{4}$ x1 $\frac{1}{2}$ "	.71
17 L 720	AG442	0.05	100	3/4x1 $\frac{1}{2}$ "	.47
17 L 670	AG443	0.05	100	1 $\frac{1}{4}$ x1 $\frac{1}{2}$ "	.59
17 L 722	AS145	0.1	100	1 $\frac{1}{4}$ x1 $\frac{1}{2}$ "	.82
17 L 723	AS165	0.25	100	3/4x1 $\frac{1}{2}$ "	.88
17 L 724	AS185	0.5	100	1x1 $\frac{1}{2}$ "	1.03
17 L 678	FM442	0.5	160	1 $\frac{1}{4}$ x1 $\frac{1}{2}$ "	.38
17 L 676	AM454	0.5	200	1 $\frac{1}{4}$ x2"	.38
17 L 675	AG453	0.5	200	3/4x2"	.88
17 L 674	AG452	1.0	200	1x2 $\frac{3}{8}$ "	.53
17 L 671	AG444	0.25	200	3/8x1 $\frac{1}{4}$ "	.55
17 L 673	AG451	0.5	200	3/4x2"	.38

Quality Voltage Controls



"SUPERIOR" VARIABLE VOLTAGE CONTROLS

POWERSTAT VARIABLE AUTOTRANSFORMERS

Delivers adjustable output voltage from AC line—output variable from zero to above line voltage. Negligible voltage change from no load to full load. Current ratings apply over full range of output voltage. Zero waveform distortion. Rated for 50° C. temperature rise under full load. *For 110-120 v. AC inputs. †For 240 volt inputs. For 50-60 cycles, except 300 cycles only. 2PF-136 has standard 2-blade plug and receptacle. 3PF-136 has 3-blade plug and receptacle; third wire is connected to Powerstat frame. Gang assemblies: 1156C-2P and 1256C-2P consist of 2 paralleled units operated

from common shaft. 1156C-3P and 1256C-3P consist of three units operated from a common shaft. 1156C-3Y consists of three units operated from a common shaft, wired for three-phase wye-connected operation. Sizes shown on gang types are height and diameter. Mountings: P, panel; and U, general utility. Sizes shown: P types, distance back of panel and diameter; U types, overall height and diameter. Types 2PF10, 116 and 216 have on-off switch, line cord and plug, fuse and output receptacle. †Also 105-135 v. and 225-255 v. output for line-voltage correction.

Stock No.	Mfr's Type	Fig.	OUTPUT			Mtg.	Size	Wt., Lbs.	NET EACH
			Volts	Amps	KVA				
62 G 536	10*	C	0-132	1.25	0.165	P	2 1/2 x 2 1/2 x 3 1/2	2 1/2	8.50
62 G 575	2PF10*	C	0-132	1.0	0.132	P	3 1/2 x 3 1/2 x 3 1/2	3 1/2	16.50
62 G 531	20*	A	0-140	3.0	0.42	P	3 1/2 x 3 1/2 x 3 1/2	6	12.50
62 G 522	116*	B	0-140	7.5	1.0	P	6 1/2 x 4 1/2 x 6	12	24.00
62 G 524	116U*	B	0-140	7.5	1.0	P	4 1/2 x 3 1/2 x 6	11	18.00
62 G 543	136*	D	0-140	20.0	2.8	U	6 1/2 x 7 1/2 x 4	25	50.00
62 G 576	LW136*†	D	0-30	25.0	0.75	U	6 1/2 x 7 1/2 x 4	25	80.00
62 G 545	2PF-136*	.....	0-140	20.0	2.8	U	6 1/2 x 7 1/2 x 4	26	65.00
62 G 546	3PF-136*	.....	0-140	20.0	2.8	U	6 1/2 x 7 1/2 x 4	26	65.00
62 G 529	1156C*	.....	0-140	45.0	6.3	U	8 1/2 x 14 1/2 x 4	80	118.00
62 G 527	216†	F	0-280	3.0	0.84	U	6 1/2 x 4 1/2 x 6	12	26.00
62 G 573	216U†	B	0-280	3.0	0.84	P	4 1/2 x 4 1/2 x 6	11	20.00
62 G 544	236†	D	0-280	9.0	2.5	U	6 1/2 x 7 1/2 x 4	25	50.00
62 GZ 530	1256C	.....	0-280	28.0	7.8	U	8 1/2 x 14 1/2 x 4	80	118.00
62 GZ 527	1156C-2P*	.....	0-140	90	12.6	U	17 1/2 x 14 1/2 x 4	170	269.00
62 GZ 538	1156C-3P*	.....	0-140	135.0	18.9	U	25 3/8 x 14 1/2 x 4	295	418.00
62 GZ 539	1256C-2P*	.....	0-280	56.0	15.7	U	17 1/2 x 14 1/2 x 4	170	269.00
62 GZ 540	1256C-3P*	.....	0-280	84.0	23.5	U	25 3/8 x 14 1/2 x 4	295	418.00
62 GZ 541	1156C-3Y†	.....	0-280	45.0	21.8	U	25 3/8 x 14 1/2 x 4	280	394.00

MODEL UCIM VOLTBOX

For industrial and electrical, chemical and physics laboratory installations and radio-TV servicing. Provides AC source for variable AC voltage testing. Has a variable voltage transformer, voltmeter, fuse, line switch, two five-way binding posts and three output receptacles. Continuously adjustable output voltage up to 17% above line voltage to all output receptacles and binding posts. Rated at 7.5 amp. Input 120 v. 50-60 cycles. Output 0-140 volts. 3x8x6". Shpg. wt., 17 lbs. **62 GX 533. NET.....65.00**

Model UC2M. As above but for 240 volts input. Output, 0-280 volts at 3 amps. **62 GX 542. NET.....70.00**

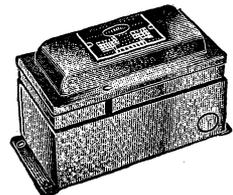
OTHER "SUPERIOR" EQUIPMENT

Allied can supply Superior Powerstat equipment for commercial, industrial, laboratory and special-purpose applications. Available on special order are motor-driven, oil-cooled, explosion-proof powerstats and powerstat line correctors; Stabiline automatic voltage regulators, including instantaneous electronic and electro-mechanical regulators; Varicel DC power supplies, etc. Stabiline regulators are ideal for voltage regulation in radio and TV stations. When ordering special items be sure to mark order "Special" and give manufacturer's type number, voltage and current as well as all information required for motor drive, etc. Important note—write to Allied for free Bulletin (No. 37 G 102).

RAYTHEON VOLTAGE REGULATORS

Stabilize Varying Line Voltages to Within ±1/2%

Fully automatic magnetic-type AC line voltage stabilizers. For applications requiring accurate voltage stabilization. Maintain absolutely constant output of 115 volts, within 1/2% despite input voltage fluctuations as great as 15%. Quick response corrects for fluctuations so rapidly that no indication can be noticed on an ordinary AC voltmeter. Can be used in parallel for greater power-handling capacity where load is greater than rated capacity of single unit. Require no adjustment. *Case has flat top instead of style illustrated. †In 2 sections, mounted as single unit. For 95-130 v., 60 cycle AC. Available in ratings to 2000 watts on special order.

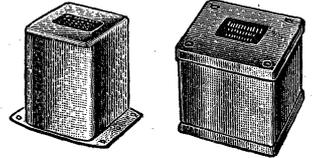


No.	Type	Watts	Size	Mtg. Ctrs.	Wt.	NET
62 G 675	VR-6110*	15	5 3/4 x 2 1/4 x 3 1/2	5 1/4"	6 lbs.	16.00
62 G 676	VR-6111	30	7 1/2 x 3 3/4 x 4 1/4	6 7/8 x 2 1/2"	7 lbs.	18.00
62 G 677	VR-6112	60	7 1/2 x 3 3/4 x 4 1/4	6 7/8 x 2 1/2"	10 lbs.	25.00
62 G 678	VR-6113	120	7 1/2 x 3 3/4 x 5 1/4	6 7/8 x 2 1/2"	17 lbs.	33.00
62 GU 679	VR-6114	250	12 3/8 x 5 7/8 x 5 1/4	11 9/16 x 3 1/2"	29 lbs.	52.00
62 GZ 680	VR-6115	500	12 3/8 x 5 9/16 x 5 1/4	11 9/16 x 3 1/2"	52 lbs.	81.00
62 GZ 681	VR-6116†	1000	14 1/2 x 11 3/16 x 5 9/16	12 1/2 x 11 1/8"	128 lbs.	135.00

CONNECTING ASSEMBLIES FOR VOLTAGE REGULATORS

Type 51-690G1. Cord, plug, socket and mounting plate assembly for VR-6111, VR-6112, VR-6113. Shpg. wt., 2 lbs. **62 G 684. NET.....2.25**

Type 51-690G2. Cord, plug, socket and mounting plate assembly for VR-6114 and VR-6115. Shpg. wt., 2 lbs. **62 G 685. NET.....3.00**



ACROSOUND 300 SERIES

HI-FI OUTPUT TRANSFORMERS

Model TO-300. High-fidelity output transformer. Designed for use with Ultra-Linear Acrosound and Williamson-type amplifier circuits. Provides 20 watts undistorted power from 20 to 30,000 cps; 40 watts undistorted from 30 to 20,000 cps. Recommended for type KT66, 807, 6L6, 6V6 or 5881 tubes. Primary impedance: 6000 ohms. Secondary impedance: 4, 8, 16 ohms. Frequency response, ±1 db, 10-100,000 cps. Permissible feedback, 30 db. Maximum DC per primary, 75 ma. Primary shunt inductance, 150 henries minimum. 10° color-coded leads. Seamless steel case. Gray finish. Size, 4 1/4 x 3 3/4 x 3 1/4". Shpg. wt., 7 lbs. **63 G 993. NET.....24.75**

Model TO-310. High-fidelity output transformer. Excellent for converting push-pull 6V6's or EL84's to Ultra-Linear operation. Although recommended for 12-watt circuits, will deliver 10 watts undistorted power from 20 to 30,000 cps; 20 watts undistorted from 30 to 20,000 cps. Primary impedance, 8000 ohms. Primary shunt inductance, 85 henries minimum. All other specifications same as TO-300, above. Size, 4 1/4 x 3 3/4 x 3 1/4". Shpg. wt., 6 lbs. **63 G 994. NET.....18.75**

Model TO-305. Ideal for amplifiers where high-output impedances are required for multiple speakers, telephone lines, broadcast equipment, etc. Same specifications as TO-300 above, but has 4, 8, 16, 125 and 500-ohm output impedances. Size, 4 1/4 x 3 3/4 x 3 1/4". Shpg. wt., 8 lbs. **63 G 995. NET.....30.75**

Model TO-315. High-fidelity output transformer. Matches push-pull type 6V6 tubes for Ultra-Linear operation. Ideal for use in remote amplifier to feed long line or where high-output impedances are needed. Has 4, 8, 16, 125 and 500 ohm output impedances. Other specifications are same as TO-310 above. Size, 4 1/4 x 3 3/4 x 3 1/4". Shpg. wt., 7 lbs. **63 G 996. NET.....24.75**

Model TO-330. For Ultra-Linear operation in Williamson-type circuits. For push-pull 6550's, EL-34's, 6CA7's, KT88's, or push-pull parallel KT66's, 6L6's, 807's, etc. in fixed-bias operation. Provides 50 watts undistorted power from 20 to 30,000 cps; 100 watts undistorted power from 30 to 20,000 cps. Primary impedance, 3800 ohms. Secondary impedance, 4, 8, 16 ohms. Response, ±1 db, 10-100,000 cps. Permissible feedback, 30 db. Max. DC per primary, 150 ma. Fully potted. Gray finish. Holes for bottom mounting, 10° leads. Size, 5 1/4 x 4 1/4 x 3 1/4". Shpg. wt., 14 lbs. **63 G 997. NET.....39.75**

Model TO-320. Recommended for Ultra-Linear operation of 6V6's. Provides 10 watts undistorted power from 20 to 30,000 cps; 20 watts undistorted from 30 to 20,000 cps. Primary impedance: 3500 ohms plate-to-plate. Secondary impedance: 4, 8 and 16 ohms. Frequency response: ±1 db, 10 to 100,000 cps. Maximum DC per primary, 75 ma. Seamless steel case. Silver gray hammerloid finish. 10° color coded wire leads are brought out through case bottom. Case mounts with base flange. Size, 4 1/4 x 3 3/4 x 3 1/4". Shpg. wt., 6 lbs. **63 G 990. NET.....18.75**

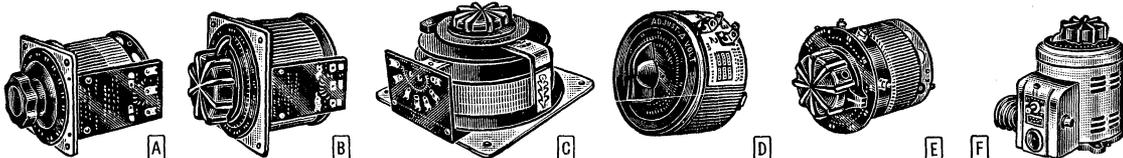
Model TO-340. For push-pull Ultra-Linear 6550's as well as KT 88's in self bias operation, 50 watts undistorted power from 20 to 30,000 cps; 100 watts undistorted power from 30 to 20,000 cps. Primary impedance: 5000 ohms plate-to-plate. Secondary impedance: 4, 8 and 16 ohms. Frequency response: ±1 db, 10 to 100,000 cps. Maximum DC per primary, 150 ma. Case has provision for either top or bottom mounting. Gray finish. Has 10° color coded leads through case bottom. Size, 4 3/4 x 5 1/2 x 3 1/4". Shpg. wt., 14 lbs. **63 G 991. NET.....39.75**

TP-520 POWER TRANSFORMER

Deluxe power transformer. Designed for use in high-fidelity amplifiers employing 6V6's, 6V6's, EL84's, or similar output tubes having low plate voltage and high plate current requirements. Plate winding delivers 285-0-285, at 175 ma. Filament windings deliver 5 v. at 2 amps and 6.3 v. at 5 amps. Gray hammerstone; end-bell construction with upright mounting. 4x 3/4 x 3 1/2". 10° wire leads. For 110-120 v., 50-60 cycle AC. Shpg. wt., 6 lbs. **63 G 992. NET.....9.75**

Special-Purpose Transformers and Supplies

STANDARD ELECTRIC "ADJUST-A-VOLT" VARIABLE AUTOTRANSFORMERS



A Type T21U. Autotransformer designed to provide a variable output voltage with high conversion efficiency. Consists of single-layer winding on a toroidal core. Sliding brush is always in contact with at least one turn of wire to assure uninterrupted current flow. Output variable from 0-135 volts. Regulation substantially independent of load, moderate temperature rise, zero wave-form distortion. Allows high initial surge currents and temporary overloads. Max. output current: 3.1 amps. Max. load rating: 360 VA. Size, 3 $\frac{1}{2}$ x3 $\frac{1}{4}$ x3 $\frac{1}{8}$ " dia. For 115 v., 50-60 cycle AC. Shpg. wt., 5 lbs.
61 G 966, NET.....13.50

B Type T61U. Similar to above. Output is variable from 0-135 volts. Maximum output current: 7.8 amps. Maximum load rating: 900 VA. Size, 4 $\frac{1}{2}$ x4 $\frac{1}{2}$ x3 $\frac{1}{8}$ ". For operation from 115 volts, 50-60 cycle AC. Shpg. wt., 8 lbs.
61 G 967, NET.....17.00

C Type T502U. Similar to above. Output is variable from 0-270 volts. Max. output: 32.5 amps. Max. load rating: 7.5 KVA. 1 $\frac{3}{8}$ x12 $\frac{1}{2}$ x5 $\frac{1}{2}$ ". For 230 v., 50-60-cycle AC. Shpg. wt., 57 lbs.
61 GZ 968, NET.....120.00

D Type 100BU. Similar to above. Output is variable from 0-132 volts. Mounts on panels up to $\frac{1}{2}$ " thick. Max. output current: 1.25 amps. Max. load rating: 165 VA. 2 $\frac{3}{8}$ x2 $\frac{1}{2}$ x $\frac{1}{2}$ " dia. For operation from 120 v., 50-60 cycle AC. Shpg. wt., 2 lbs.
62 G 583, NET.....8.33

E Type 300BU. Similar to units at left. Output variable from 0-135 volts. Mounts on panels up to $\frac{1}{2}$ " thick. Max. output: 3.0 amps. Max. load rating: 400 VA. Size, 3 $\frac{1}{8}$ x3 $\frac{1}{8}$ x $\frac{1}{8}$ " dia. For 115 v., 50-60 cycle AC. Shpg. wt., 6 lbs.
62 G 580, NET.....12.25

F Type 500B, 500BU and 520B. For laboratory and industrial applications. Internal construction similar to that of above. Types 500B and 520B are cased, 6 $\frac{1}{2}$ x4 $\frac{1}{2}$ " dia. Supplied with line cord, plug, receptacle, pilot light, on-off switch and fuse. Constructed of die-cast aluminum with gray wrinkle finish. Type 500BU is uncased (not illustrated). Designed for back-of-panel mounting—supplies pilot-light voltage, adjustable shaft length. Size, 5x4 $\frac{1}{2}$ " dia. For 50-60 cycle operation. Av. shpg. wt., 10 lbs.

Stock No.	Mfr's Type	Input Volts	Output			NET EACH
			Volts	Amperes	KVA	
62 G 581	500B	115	0-135	7.5	1.0	22.54
62 G 582	500BU	115	0-135	7.5	1.0	17.64
61 G 969	520B	230	0-270	3.0	0.81	25.47

Type 1500B. (Not illustrated.) For heavy-duty applications such as theatrical lighting control. Maximum current output is 15 amps. Voltage output range is 0-135 v. Maximum load rating is 2.0 KVA. With dust cover. Size, 8 $\frac{1}{2}$ x8x5 $\frac{1}{8}$ ". For operation from 115 v., 50-60 cycle AC. Shpg. wt., 21 lbs.
62 GU 589, NET.....45.08

SOLA CONSTANT-VOLTAGE TRANSFORMERS

POWER TRANSFORMERS

G Replace ordinary power transformers. Stabilize plate and filament voltages within $\pm 3\%$ with line variations from 100-130 volts. With Pyranol oil-filled input filter condenser and mounting bracket. For 100-130 volts, 60 cycles AC only.

Type 7104. DC input to filter, 275 v @ 50 ma. Fil., 6.3 v CT @ 2 $\frac{1}{2}$ A; 5 v @ 2A. Size, 4 $\frac{1}{2}$ x3 $\frac{1}{2}$ x3 $\frac{1}{8}$ ". Shpg. wt., 6 lbs.
62 G 669, 10-UP, EACH.....11.40 1-9, NET EACH.....12.00

Type 7106. Same as above, but delivers 385 volts DC to filter @ 110 ma. Fil., 6.3 v CT @ 3A; 5 v @ 2A. 4 $\frac{1}{2}$ x4 $\frac{1}{2}$ x3 $\frac{1}{8}$ ". 9 lbs.
62 G 670, 10-UP, EACH.....14.25 1-9, NET EACH.....15.00

Type 7107. As above, but 380 v DC to filter @ 250 ma. Fil., 6.3 v @ 4A; 6.3 v @ 8A (unreg.); 5 v @ 3A. 7x5x4 $\frac{1}{2}$ ". Wt., 19 lbs.
62 G 671, 10-UP, EACH.....25.65 1-9, NET EACH.....27.00

TV VOLTAGE REGULATORS

Type 7202. Minimizes poor TV reception due to line variations. For any TV set with power consumption between 165 and 285 watts. Delivers 3% stabilized voltage. No wiring necessary. Turns on and off with set. 9 $\frac{1}{2}$ x4 $\frac{1}{2}$ x7 $\frac{1}{4}$ ". For 95-130 v., 60 cycle AC. Shpg. wt., 26 lbs.
62 G 667, NET.....37.50

Type 7201. For 110 to 175-watt sets. Shpg. wt., 19 lbs.
62 G 631, NET.....34.50

STANDARD-TYPE TRANSFORMERS

Static-magnetic voltage regulators. Provide constant output voltage within $\pm 1\%$, even with wide line voltage changes (transient or continuous). Adjusts quickly to changes—usually within a time range of 1/5 cycles or less. Current-limiting characteristic protects transformer and load equipment from excessive current. Use new low strayfield design—suitable for use as internal components. All have 95-130 v. inputs, except the -04- group which has 95-130/190-260 v. inputs, and the -25- group which has 95-130/175-235/190-260 v. inputs. All types have chlorinated di-therm capacitor. Input voltages at 60 cycle AC. 25 and 50 cycle units available on special order. Write for quotation, giving full details about your requirements.

No.	Type	Fig.	Output V	VA	Size	Lbs.	EACH
61 G 976	20-01-015	H	6.0	15	3 $\frac{1}{2}$ x2 $\frac{1}{2}$ x5 $\frac{1}{16}$ "	6	15.00
61 G 977	20-02-015	H	6.3	15	3 $\frac{1}{2}$ x2 $\frac{1}{2}$ x5 $\frac{1}{16}$ "	6	15.00
61 G 978	20-10-015	H	115	15	3 $\frac{1}{2}$ x2 $\frac{1}{2}$ x5 $\frac{1}{16}$ "	6	15.00
63 G 194	20-04-030	G	6.3	30	4 $\frac{1}{2}$ x6x3 $\frac{1}{8}$ x $\frac{1}{8}$ "	6	16.00
63 G 193	20-04-065	G	6.3	60	4 $\frac{1}{2}$ x6x3 $\frac{1}{8}$ x3 $\frac{1}{8}$ "	7	20.00
63 G 195	20-04-095	G	6.3	120	4 $\frac{1}{2}$ x6x3 $\frac{1}{8}$ x4 $\frac{1}{16}$ "	11	24.00
63 G 196	20-04-113	G	6.3	150	7x4 $\frac{1}{2}$ x5 $\frac{1}{8}$ "	20	31.00
63 G 197	20-04-116	G	6.3	250	7x4 $\frac{1}{2}$ x5 $\frac{1}{8}$ "	23	35.00
62 G 657	20-13-030	J	118	30	6x4x5 $\frac{1}{2}$ x $\frac{1}{8}$ "	6 $\frac{1}{2}$	18.00
62 G 658	20-13-060	J	118	60	6 $\frac{1}{2}$ x6x4x5 $\frac{1}{2}$ x $\frac{1}{8}$ "	9 $\frac{1}{2}$	25.00
62 G 659	20-13-112	J	118	120	7 $\frac{1}{2}$ x4x5 $\frac{1}{2}$ x $\frac{1}{8}$ "	13	33.00
62 GU 618	20-13-115	J	118	150	8 $\frac{1}{2}$ x5 $\frac{1}{2}$ x7 $\frac{1}{16}$ "	22	40.00
62 GU 660	20-13-125	J	118	250	11 $\frac{1}{2}$ x6 $\frac{1}{2}$ x1 $\frac{1}{2}$ x6 $\frac{7}{16}$ "	30	52.00
62 GU 661	20-13-150	J	118	500	12 $\frac{1}{2}$ x6 $\frac{1}{2}$ x1 $\frac{1}{2}$ x6 $\frac{7}{16}$ "	40	81.00
62 GZ 662	20-13-210	J	118	1000	15 $\frac{1}{2}$ x6 $\frac{1}{2}$ x1 $\frac{1}{2}$ x6 $\frac{7}{16}$ "	115	135.00
63 GZ 198	20-25-220	J	118	2000	21 $\frac{1}{2}$ x8 $\frac{1}{2}$ x9 $\frac{1}{16}$ "	168	245.00

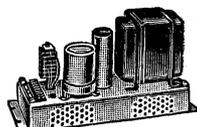
"DC SOLAVOLT" ADJUSTABLE CONSTANT-VOLTAGE DC POWER SUPPLIES

Compact DC supplies with manually adjustable output and automatic voltage regulation. Use semi-conductor rectifier, high-capacity filter, choke, variable autotransformer and constant-voltage transformer. Hold output voltage within $\pm 1\%$ despite line voltage changes of $\pm 15\%$. Will safely handle "pulse" loads up to 200% of rated output. Have no tubes. Circuits insulated from ground, permitting operation at either polarity. All units assembled on 7x1 $\frac{1}{2}$ x12 $\frac{1}{4}$ " rack panel. For 100-130 volts, 60 cycle AC.



CONSTANT-VOLTAGE DC POWER SUPPLIES

Compactly built DC power supplies designed to provide a constant output voltage despite wide variations in line voltage. Typically used with equipment such as digital computers, telemetering devices, variable-speed industrial motors. Employ a constant-voltage transformer, semi-conductor rectifier and high-capacitance filter. Output is held within $\pm 1\%$ with line changes of $\pm 10\%$. Ripple is less than 1% (rms), except $\frac{1}{2}$ %. Easily withstand high, short-time overloads. Units can be series-wired for higher voltages. Input and output connections made at terminal strip. All circuits are insulated from ground, permitting operation at either polarity. Supplies are assembled on 5 $\frac{1}{2}$ x19" rack panels. Depth, 9 $\frac{3}{4}$ ". Chassis have vent holes. For operation from 100-130 v., 60 cycles AC.



Stock No.	Mfr's Type	Output Ratings			Efficiency % (approx.)	Wt., Lbs.	NET EACH
		Watts	Volts	Amps			
62 GZ 636	28156	144	24	6.0	72	45	145.00
62 GZ 637	28120	192	48	4.0	77	45	135.00
62 GZ 638	28152	250	125	2.0	82	55	145.00
62 GZ 639	28106	300	150	2.0	80	50	145.00
62 GZ 640	*28153	200	200	1.0	76	45	140.00
62 GZ 641	*28192	250	250	1.0	81	55	150.00

Stock No.	Mfr's Type	Output Range	Rated Load—Amps		% Ripple Full Load	Wt., Lbs.	NET EACH
			Min. v.	Max. v.			
61 GZ 979	28510	5-35v.	7.0	7.0	0.10	80	325.00
62 GZ 614	28520	25-60v.	6.0	4.0	0.05	84	325.00
62 GZ 615	28530	30-90v.	4.0	2.8	0.04	82	295.00
62 GZ 632	28540	60-180v.	2.0	1.4	0.03	76	295.00

Type 999-006. Removable handle and side-plate assemblies for above units. For using power supply as a portable device. Shpg. wt., 5 lbs.
62 G 635, NET PER PAIR.....6.75

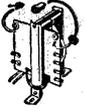
Stancor TV Transformers



EXACT-REPLACEMENT TV HORIZONTAL OUTPUT TRANSFORMERS

A complete line of top-quality replacement flyback transformers for all standard television receivers. Every transformer faithfully duplicates all of the electrical and physical characteristics of the original manufacturer's unit. Manufacturer's own specifications are used.

No alterations are required in the existing circuit or chassis for installation of the Stancor transformers. High-quality construction. *For 77J1 except where 6CD6 horizontal output tube is used. Write to Allied for quantity prices. Av. shpg. wt., 1 lb.



ADMIRAL

No.	Type	Orig. Mfr's Part No.	NET
64 G 210	A-8128	79C23-3, 79C28-1	6.53
64 G 211	A-8133	79C30-1/-3	6.86
64 G 551	A-8134	79C-30-2/4, 79C38-1, 79D38-1	6.86
64 G 213	A-8254	79C60-1	4.47
64 G 214	A-8255	79C60-2/-3	5.29
63 G 460	HO-265	79C70-1	4.73
64 G 572	A-8135	79D41-1/-2	7.02
64 G 212	A-8253	79D48-1	6.37
63 G 459	A-8292	79D65-1	5.10

CAPEHART

64 G 221	A-8131	750163A-1	4.24
63 G 461	A-8285	850285E-1	7.06

CBS-COLUMBIA

64 G 331	A-8230	10104/07/18/10/26/35	6.86
64 G 332	A-8231	10136B/37/38/59	6.86
63 G 462	HO-258	12000751	6.17
63 G 463	A-8283	1200081	6.37
63 G 464	A-8284	12001051	5.68
63 G 465	A-8287	PC10161	5.88

CROSLY

64 G 222	A-8241	157820	5.29
64 G 223	A-8248	154069/-1, 154990/2/3	8.00
64 G 208	A-8263	158481-1/-2/-5	6.04

EMERSON

64 G 221	A-8131	738047/48/53	4.24
64 G 268	A-8138	738079/84	6.53
64 G 333	A-8232	738067/68/69/73/77	6.86
64 G 369	A-8139	738096, 738100	6.20

GENERAL ELECTRIC

64 G 546	A-8130*	7711	6.53
64 G 276	A-8259	RTO-129/30	5.88
64 G 277	A-8262	RTO-131/141/-163-3	6.37
63 G 466	A-8288	RTO-149/1	5.48
63 G 467	A-8289	RTO-151/3	5.48
63 G 471	A-8290	RTO-166/5	5.48
63 G 468	HO-252	RTO-165	5.88
63 G 469	HO-253	RTO-175	5.88
63 G 470	HO-254	RTO-179	5.88

HOFFMAN

No.	Type	Orig. Mfr's Part No.	NET
63 G 975	HO-286	5165	8.65
63 G 976	HO-287	5144/45/46/48/49/55	7.18

MAGNAVOX

63 G 472	A-8293	360593-2, 360552-1/2/-3A, 360577/-1	6.37
63 G 473	A-8294	360606/-1	5.10
63 G 474	A-8295	360614-1, 360623/-1	4.96
63 G 435	HO-266	360659	5.88
63 G 970	HO-279	360632-1	6.53

MOTOROLA

64 G 325	A-8224	24C711265/A, 24C72190	8.55
64 G 279	A-8239	24K792753, 24K7101099	6.53
64 G 326	A-8225	24K712193	8.55
64 G 327	A-8226	27K21301/C, 24K721517/C	8.55
63 G 971	HO-280	24K739284	7.35
63 G 972	HO-281	24K730902/03	7.64
63 G 973	HO-282	24K726487, 24K738699	7.64

MUNTZ

64 G 281	A-8129	TO-0024	6.53
64 G 559	A-8132	TO-0031	6.86
64 G 283	A-8240	TO-0036	6.53
63 G 436	A-8291	TO-0039	6.52
64 G 278	A-8261	C9.253/-1/-2/-E	6.04

PHILCO

63 G 438	HO-277	32-8465-2, 32-8509/-2	8.65
64 G 323	A-8222	32-8533/34	6.99
64 G 322	A-8221	32-8555	7.35
64 G 321	A-8220	32-8565	6.96
64 G 324	A-8223	32-8572	6.30
63 G 437	HO-276	32-8624-1	6.59
63 G 439	HO-278	32-8695-1	6.53
63 G 440	HO-264	32-8709-1	5.88

PHILHARMONIC

64 G 573	A-8136	80-263/265/-2	6.53
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RCA

64 G 783	A-8119	211T5	6.53
64 G 784	A-8127	211T1/T3	6.30
63 G 468	HO-252	2225T1	5.88
63 G 441	HO-256	235T1	6.86
64 G 789	A-8235	75519, 75585, 76381	4.47

RCA (Cont'd)

No.	Type	Orig. Mfr's Part No.	NET
64 G 787	A-8233	76430, 76795	6.76
64 G 788	A-8234	76501	4.12
64 G 221	A-8131	76951	4.24
64 G 785	A-8243	77833	4.12
64 G 786	A-8244	78201, 78810	6.53
63 G 442	HO-272	972914-1 103092	5.39

SILVERTONE

64 G 331	A-8230	10104/07/08/10/26/35	6.86
64 G 332	A-8231	10136B/37/38/59	6.86
63 G 969	A-8252	N24988	5.88

SPARTON

63 G 974	HO-284	PC-700-10/6,-12/F	6.53
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SYLVANIA

64 G 328	A-8227	241-0003	4.70
64 G 329	A-8228	241-0005/-0006	5.03
64 G 330	A-8229	241-0007	5.29
63 G 443	HO-259	241-0011	4.80

WESTINGHOUSE

64 G 285	A-8237	V-9904-1, V-10213-1	6.37
64 G 286	A-8238	V-10144-1, V-9904-2, V-1020	6.37
64 G 284	A-8236	V-11548-1/-2/-3/-4	7.35

ZENITH

64 G 287	A-8267	S-15911/12, -1556-6, S-17130/40, 17233, S-17245/265/435, S-17646/767/811, S-17927, -20908	6.11
64 G 288	A-8268	S-15015/202/709, S-15710, -16006, S-16191/204, S-17244/699/X, S-20866	6.11
64 G 289	A-8269	S-18487/537/802	5.88
64 G 290	A-8270	S-18567/990, S-19728	5.88
64 G 291	A-8271	S-19032	5.88
64 G 292	A-8272	S-20993	5.88
63 G 444	HO-267	S-20099	5.03
63 G 445	HO-268	S-23049	5.03
63 G 446	HO-269	S-22720	5.88
63 G 447	HO-270	S-18425	5.39
63 G 448	HO-271	S-22451, S-23438	5.39

TELEVISION POWER TRANSFORMERS

Power transformers for replacement use in standard television receivers. Carefully designed to assure dependable, efficient service. Plate windings are CT. *With copper shorting band to reduce external magnetic field. †Pri. for 117/107 v. For 117 volts, 60 cycles.

Stock No.	Mfr's Type	Plate Rect.		FIL.		Overall Size	Wt., Lbs.	NET EACH
		V	A	V	A			
63 G 429	P-5095†	675/200	5	3	6.3 CT	5.	4 3/4 x 4 3/4 x 3 1/2	1.69
63 G 430	P-6315	740/275	5	3	6.3 CT	7.0	4 3/4 x 3 3/4 x 4 1/2	1.73
64 G 510	P-8154	750/290	5	3	6.3/6.3	2.5/6	4 3/4 x 4 3/4 x 4 1/2	1.74
64 G 519	P-8159*	720/290	5	3	5/6.3/6.3	2.8/6.8	5 1/2 x 3 1/2 x 4 1/2	1.62
64 G 577	P-8160	716/185	5	3	6.45	12	4 1/2 x 3 3/4 x 3 1/2	1.40
64 G 578	P-8164*	660/225	5	3	6.3	9.0	4 1/2 x 3 3/4 x 3 1/2	1.12
64 G 580	P-8166*	680/330	5	6	6.3/6.3/6.3	2.5/5.0/5.0	6 1/2 x 3 1/2 x 4 1/2	1.93
63 G 458	P-8167	560/400	5	6	6.3/6.3	4.8/8.5	6 1/2 x 3 1/2 x 4 1/2	1.30
64 G 583	P-8169*	760/220	5	3	6.3/6.3/6.3	1.2/5/7	4 3/4 x 3 3/4 x 3 1/2	1.54
63 G 431	P-8170*	760/220	5	3	6.3/6.3/6.3	1.2/5/7	4 3/4 x 4 x 4 1/2	1.50
64 G 589	P-8171*	750/225	5	3	6.3/6.3	2.0/9.0	5 3/8 x 4 1/4	1.54
63 G 449	P-8172	540/200	5	3	6.3	8.5	4 3/8 x 3 3/8 x 3 1/2	1.35
64 G 413	P-8331*	620/240	5	3	6.3/6.3	6.4/3	4 1/2 x 3 3/4 x 4 1/2	1.29
64 G 415	P-8333*	590/225	5	3	6.3/6.3	11.4/9	4 3/8 x 3 3/4 x 4 1/2	1.38
64 G 416	P-8334*	550/305	5	6	6.3/6.3	8.5/1.2	5 1/2 x 3 3/4 x 4 1/2	1.56
64 G 417	P-8335*	600/325	5	6	6.3/6.3	8.8/1.5	5 3/8 x 3 3/4 x 4 1/2	1.56
64 G 419	P-8337	630/225	5	3	6.3	8.25	4 1/2 x 3 3/4 x 4 1/2	1.38
64 G 421	P-8339	650/255	5	3	12.6 CT	5.25	4 3/8 x 3 3/8 x 3 1/2	1.59
64 G 422	P-8340*	710/270	5	6	6.3/6.3/6.3	9.5/1.65/2.4	5 1/2 x 3 3/4 x 4 1/2	1.69
64 G 424	P-8342	730/260	5	6	6.3/6.3	8.85/1.2	5 3/8 x 3 3/4 x 4 1/2	1.42
63 G 428	P-8352*	580/240	5	3	12.6 CT	5.25	4 3/8 x 3 3/8 x 3 1/2	1.29

VERTICAL BLOCKING OSCILLATOR TRANSFORMERS

No.	Type	Ratio (Pri. to Sec.)	Size	Lbs.	NET
64 G 501	A-8111	1:4:2	1 1/2 x 2 1/2 x 1 1/2"	1/2	1.76
64 G 504	A-8121	1:4:2	1 3/4 x 2 5/8 x 1 1/2"	1/2	2.42
64 G 543	A-8122	1:4:2	1 3/8 x 1 3/8 x 1 3/8"	1/2	2.74
64 G 549	A-8124	Sec. #1, 1:0.48; #2, 1:1	1 1/2 x 2 1/2 x 1 3/8"	1/2	2.71
64 G 558	A-8125	1:4:2	2 3/8 x 1 1/2 x 1 1/2"	1/2	1.76
64 G 471	A-8126	1:1:5	1 3/4 x 1 1/2 x 2"	1/2	1.79
63 G 432	VBO-200	1:1:5	1 1/2 x 1 1/2 x 2 1/2"	1/2	1.89

HORIZONTAL BLOCKING OSCILLATOR TRANSFORMERS

No.	Type	Size	Lbs.	NET
64 G 500	A-8110	1 1/2 x 2 1/2 x 1 1/2"	1/2	1.99
64 G 503	A-8120	1 3/4 x 2 5/8 x 1 1/2"	1/2	2.81

37 G 037 Stancor TV Replacement Guide. Free with order.

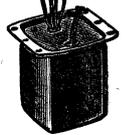
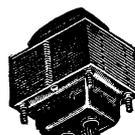
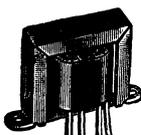


DEFLECTION YOKES

For 70° deflection picture tubes; for 50°. All have ferrite cores and cosine windings. Molded coil forms provide minimum "crossstalk." Av. shpg. wt., 1 1/2 lbs.

No.	Type	Horizontal	Vertical	NET
64 G 538	DV-1A†	8.3 mh, 13.5 ohms	50 mh, 66 ohms	5.15
64 G 539	DV-2A	10.3 mh, 14.5 ohms	50 mh, 66 ohms	6.53
64 G 540	DV-9A	8.5 mh, 14.5 ohms	50 mh, 52.5 ohms	6.53
64 G 589	DV-10A	13.5 mh, 17.5 ohms	50 mh, 53.5 ohms	6.53
64 G 596	DV-11A	30 mh, 45 ohms	50 mh, 50 ohms	6.53
64 G 597	DV-12A	30 mh, 41 ohms	50 mh	

Stancor Transformers



POWER TRANSFORMERS
 8400 Series—For 6.3 Volt Tubes. All have center-tapped 6.3 v. winding except PS-8415 and PA8421. *For 6AX5, 6X4, 6X5 or sel. rect. All are Fig. M, except Type PC is Fig. C and Type PS is Fig. A. †Has extra winding; 6.3 v. @ 3A. not C.T. Pri., 117 volts, 60 cycle AC.

Stock No.	Mfr's Type	Plate		5V	6.3V	Overall Size	Wt., Lbs.	NET EACH			
		VCT	Ma					1-9	10-24	25-49	50-99
64 G 162	PS-8415*	125	15	.....	.6A	2 3/8 x 1 3/8 x 2 1/8"	2 1/2	2.06	1.85	1.67	1.55
64 G 078	PA-8421*	125	50	.....	2.0A	2 1/4 x 3 3/4 x 2 1/8"	1 1/2	3.43	3.09	2.78	2.58
64 G 216	PS-8416*	250	25	.....	1.0A	2 1/2 x 2 7/8 x 1 3/4"	1	2.58	2.32	2.09	1.94
64 G 077	PC-8418*	460	40	.....	2.5A	3 3/8 x 2 5/8 x 2 7/8"	2 3/4	4.27	3.85	3.47	3.21
64 G 174	PM-8401	470	40	.....	2A	2 1/2 x 3 x 2 7/8"	2 1/4	4.41	3.97	3.58	3.31
64 G 176	PC-8401	470	40	2A	2.0A	3 3/8 x 2 5/8 x 2 3/8"	2 1/4	4.41	3.97	3.58	3.31
64 G 177	PM-8402	480	55	2A	2.0A	3 1/2 x 2 7/8 x 2 3/8"	2 1/2	4.90	4.41	3.97	3.67
64 G 170	PC-8402	480	55	2A	2.0A	3 1/2 x 2 7/8 x 2 3/8"	2 1/2	4.90	4.41	3.97	3.67
64 G 175	PM-8419*	480	70	.....	3.0A	2 7/8 x 2 1/2 x 3 3/4"	2 1/2	4.90	4.41	3.97	3.67
64 G 215	PC-8419*	480	70	.....	3.0A	3 3/8 x 2 5/8 x 2 7/8"	2 1/4	4.90	4.41	3.97	3.67
64 G 167	PM-8420*	520	90	.....	4.0A	3 1/2 x 3 x 3 1/4"	3 1/2	5.45	4.91	4.42	4.10
64 G 168	PC-8420*	520	90	.....	4.0A	3 1/2 x 2 7/8 x 3 3/8"	3 1/2	5.45	4.91	4.42	4.10
64 G 171	PM-8403	500	70	2A	2.5A	3 1/2 x 2 1/2 x 3 3/4"	3 1/4	5.49	4.94	4.45	4.12
64 G 178	PC-8403	500	70	2A	2.5A	3 3/8 x 2 5/8 x 3 1/8"	3 1/4	5.49	4.94	4.45	4.12
64 G 179	PC-8404	520	90	2A	3.0A	3 3/8 x 3 x 3 1/4"	4	6.17	5.56	5.00	4.64
64 G 169	PM-8404	520	90	2A	3.0A	2 7/8 x 3 3/8 x 3 3/8"	4	6.17	5.56	5.00	4.64
64 G 172	PM-8405	540	120	3A	3.5A	3 1/2 x 3 1/8 x 3 3/4"	4 1/2	6.82	6.14	5.53	4.87
64 G 173	PC-8405	540	120	3A	3.5A	4 3/8 x 3 1/8 x 3 1/2"	3 1/2	6.82	6.14	5.53	4.87
64 G 155	PM-8407	650	55	2A	2.0A	2 1/2 x 3 3/8 x 2 3/4"	2 1/2	4.96	4.47	4.02	3.72
64 G 157	PC-8406	650	40	2A	2.0A	2 1/2 x 3 3/8 x 2 3/4"	2 1/2	4.51	4.06	3.66	3.38
64 G 184	PC-8407	650	55	2A	2.0A	3 3/8 x 2 5/8 x 3 1/8"	3 1/2	4.96	4.47	4.02	3.72
64 G 164	PC-8408	680	70	2A	2.5A	3 3/8 x 3 3/8 x 3 1/2"	4	5.62	5.06	4.55	4.21
64 G 156	PM-8408	680	70	2A	2.5A	2 7/8 x 3 3/8 x 3 1/2"	4	5.62	5.06	4.55	4.21
64 G 158	PM-8409	700	90	2A	3.0A	2 7/8 x 3 3/8 x 3 3/4"	4 1/2	6.27	5.64	5.08	4.70
64 G 185	PC-8409	700	90	2A	3.0A	3 3/8 x 3 x 3 5/8"	4 1/2	6.27	5.64	5.08	4.70
64 G 159	PM-8410	720	120	3A	3.5A	3 1/2 x 3 1/8 x 3 3/4"	5 1/2	6.92	6.23	5.61	5.19
64 G 186	PC-8410	720	120	3A	3.5A	4 3/8 x 3 1/8 x 3 3/4"	5 1/2	6.92	6.23	5.61	5.19
64 G 176	PM-8411	750	150	3A	4.5A	4 3/8 x 3 1/2 x 4 1/8"	5 1/2	8.29	7.47	6.72	6.22
64 G 187	PC-8411	750	150	3A	4.5A	4 5/8 x 3 5/8 x 4 1/8"	5 1/2	8.29	7.47	6.72	6.22
64 G 161	PM-8412	800	200	3A	5.0A	3 3/4 x 4 1/2 x 3 3/8"	8 1/2	9.16	8.41	7.57	7.01
64 G 163	PC-8412	800	200	3A	5.0A	4 3/8 x 4 1/2 x 3 3/8"	8 1/2	9.16	8.41	7.57	7.01
64 G 169	PC-8414	1200	200	3A	3.0A	4 3/8 x 4 3/4 x 4"	8 1/2	11.78	10.61	9.55	8.85

POLY-PEDANCE MODULATION TRANSFORMERS

D Highly dependable modulation transformers for matching Class "B" modulators to Class "C" load impedances in amateur and commercial transmitters. Multi-tapped primary and secondary windings will match many load impedances from 2000 to 20,000 ohms. Range covers all common impedances and assures a correct match for efficient high-quality modulation at all times.

Type A-3893. Rated 60 watts. Maximum DC, primary and secondary, 180 ma. each. Overall size: 4x3 1/4 x 1 1/2". Shpg. wt., 7 lbs.
 64 G 478, 1 to 9, NET EACH..... 12.90
 10 to 24, EACH..... 11.62
 25 to 49, EACH..... 10.46
 50 to 99, EACH..... 9.60

Type A-3894. Rated 125 watts. Max. DC, primary and secondary 225 ma. each. Size, 4 1/2 x 4 x 4 5/8". Shpg. wt., 10 lbs.
 64 G 488, 1 to 9, NET EACH..... 15.58
 10 to 24, EACH..... 14.02
 25 to 49, EACH..... 12.62
 50 to 99, EACH..... 11.69

TUBE CHECKER TRANSFORMER

Type P-1834-3. Multiple-secondary transformer. Pri.: 125/115/105 v., 60 cycles. Secondary output volts: 1.1/1.4/1.5/2.0/2.5/3.0/3.3/5.0/6.3/7.0/7.5/12/25/30/35/50/70/85 110/117. Size, 2 5/8 x 2 1/2". "A" style mounting. With data sheet. Shpg. wt., 2 1/2 lbs.
 64 G 139, 1 to 9, NET EACH..... 9.27
 10 to 24, EACH..... 8.52
 25 to 49, EACH..... 7.55
 50 to 99, EACH..... 6.96

AUDIO INPUT TRANSFORMERS

A For single plate to push-pull grids except *single plate to single grid; for 7000-20,000 ohm plate impedances. All others have 7000-15,000 ohm plate impedance. Maximum primary DC, 10 ma.

Type A-52-C. 1:2 ratio. Size, 1 3/8 x 2 3/8 x 1 1/2". Shpg. wt., 3/4 lbs.
 64 G 079, 1 to 9, NET EACH..... 1.79
 10 to 24, EACH..... 1.62
 25 to 49, EACH..... 1.46
 50 to 99, EACH..... 1.35

Type A53*. 1:3 ratio. Size, 1 3/8 x 2 3/8 x 1 1/2". Shpg. wt., 3/4 lbs.
 64 G 090, 1 to 9, NET EACH..... 1.73
 10 to 24, EACH..... 1.56
 25 to 49, EACH..... 1.40
 50 to 99, EACH..... 1.30

Type A-53-C. 1:3 ratio. Size, 1 3/8 x 2 3/8 x 1 1/2". Shpg. wt., 1 lb.
 64 G 081, 1 to 9, NET EACH..... 1.76
 10 to 24, EACH..... 1.59
 25 to 49, EACH..... 1.43
 50 to 99, EACH..... 1.32

Type A-63-C. 1:3 ratio. Size, 1 3/8 x 2 3/8 x 1 1/2". Shpg. wt., 3/4 lbs.
 64 G 082, 1 to 9, NET EACH..... 1.99
 10 to 24, EACH..... 1.79
 25 to 49, EACH..... 1.62
 50 to 99, EACH..... 1.50

DRIVER TRANSFORMERS

A Single plate (10,000 ohms primary impedance) to push-pull grids. For use between first audio and push-pull output stage.

Type A-4713. 2:1 primary to 1/2 secondary ratio; 3 ma. max. in primary. Size, 1 3/8 x 2 3/8 x 1 1/2". Shpg. wt., 1 lb.
 64 G 076, 1 to 9, NET EACH..... 1.96
 10 to 24, EACH..... 1.76
 25 to 49, EACH..... 1.59
 50 to 99, EACH..... 1.47

Type A-4723. 3:1 primary to 1/2 secondary ratio; 30 ma. max. in primary. Overall size, 1 1/2 x 2 3/8 x 1 1/2". Shpg. wt., 1 lb.
 64 G 038, 1 to 9, NET EACH..... 1.96
 10 to 24, EACH..... 1.76
 25 to 49, EACH..... 1.59
 50 to 99, EACH..... 1.47

Type A-4752. 2/1.5/1:1 primary to 1/2 secondary ratio; 40 ma. max. in primary. Size, 2 3/8 x 4 3/8". Shpg. wt., 1 1/2 lbs.
 64 G 039, 1 to 9, NET EACH..... 2.87
 10 to 24, EACH..... 2.58
 25 to 49, EACH..... 2.33
 50 to 99, EACH..... 2.16

FILTER CHOKES

All ratings are with maximum DC in winding. All are Fig. A mounting type, except *Fig. L, †Fig. TD, ‡Fig. C, ††Fig. NV. All are rated 1500 v. rms. except **2000, ††3000.

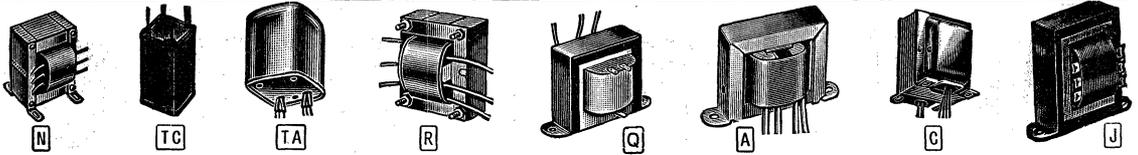
Stock No.	Mfr's Type	Hys.	Ma.	Ohms	Size	Wt., Lbs.	NET EACH			
							1-9	10-24	25-49	50-99
64 G 057	C1001†	10.5	110	225	2 5/8 x 4 2 1/4"	2 1/2	2.91	2.62	2.35	2.19
64 G 056	C1002†	15.0	75	400	2 1/4 x 3 3/4 x 2 1/4"	1 1/2	2.13	1.41	1.72	1.60
64 G 055	C1003	16.0	50	580	2 x 3 1/4 x 1 3/4"	1 1/2	1.73	1.56	1.40	1.30
64 G 065	C1080	3.5	50	200	1 5/8 x 2 7/8 x 1 1/2"	3/4	1.40	1.26	1.14	1.06
64 G 075	C1279	8.5	50	400	1 5/8 x 2 7/8 x 1 1/2"	3/4	1.44	1.29	1.17	1.08
64 G 067	C1355*	8.0	75	290	2 1/2 x 2 5/8 x 1 1/4"	1 1/2	1.99	1.79	1.62	1.50
64 G 063	C1410†††	4.0	175	100	3 3/8 x 2 5/8 x 2 5/8"	2 1/2	4.12	3.70	3.33	3.09
64 G 066	C1411†††	4.5	200	80	3 5/8 x 3 x 3 1/8"	3 1/2	4.66	4.20	3.78	3.51
64 G 068	C1412†††	4.0	250	60	3 5/8 x 3 x 3 1/8"	4 1/2	6.82	6.14	5.53	5.13
64 G 068	C1420†	16.0	80	360	3 3/8 x 2 5/8 x 2 5/8"	2 1/2	3.53	3.18	2.86	2.65
64 G 465	C1421†††	7.0	140	165	3 3/8 x 2 5/8 x 2 5/8"	2 1/2	4.02	3.62	3.25	2.99
64 G 058	C1706	20.0	15	900	1 5/8 x 2 7/8 x 1 1/2"	1	1.44	1.17	1.01	0.91
64 G 050	C1707	4.5	50	300	1 3/8 x 2 3/8 x 1 1/2"	3/4	1.09	0.99	0.91	0.81
64 G 051	C1707	7.0	50	550	1 3/8 x 2 3/8 x 1 1/2"	3/4	1.27	1.15	1.03	.96
64 G 052	C1708	13.0	65	500	2 x 3 1/4 x 1 3/4"	1	1.99	1.79	1.62	1.50
64 G 053	C1709	8.0	85	250	2 x 3 1/4 x 2"	1 1/4	2.22	2.00	1.80	1.67
64 G 054	C1710	7.0	150	200	2 5/8 x 4 x 2 1/4"	2 1/4	3.23	2.91	2.62	2.43
64 G 069	C1721†††	8.5	200	120	3 7/8 x 3 1/8 x 3 1/8"	4 1/2	5.64	5.09	4.58	4.24
64 G 456	C1722†††	8.0	300	80	4 5/8 x 3 3/4 x 3 1/2"	7 1/2	9.37	8.44	7.59	7.04
64 G 059	C2303**	2.5	130	100	2 x 3 1/4 x 1 3/4"	1 1/2	2.03	1.82	1.64	1.52
64 G 060	C2304	2.3	150	60	2 x 3 1/4 x 1 3/4"	1 1/2	2.09	1.88	1.70	1.57
64 G 061	C2305†	5.0	100	300	2 1/2 x 2 3/8 x 2 3/8"	1 1/2	3.07	2.76	2.49	2.30
64 G 064	C2308†††	8.0	300	80	4 3/8 x 4 x 3 1/8"	7 3/4	9.47	8.52	7.67	7.10
64 G 457	C2309**	3.0	150	90	2 1/4 x 3 1/4 x 2 1/4"	1 3/4	2.22	2.00	1.80	1.69
64 G 505	C2325	2.0	200	60	3 3/8 x 2 1/2 x 2 1/2"	2	2.52	2.26	2.04	1.89
64 G 520	C2326	1.0	300	43	3 3/4 x 2 1/2 x 2 1/2"	1 3/4	2.84	2.55	2.30	2.14
64 G 073	C2327	1.5	200	85	1 5/8 x 2 3/8 x 1 1/2"	3/4	1.60	1.44	1.29	1.21
64 G 458	C2328	8	375	25	2 1/2 x 3 3/4 x 2 1/2"	1 1/2	3.30	2.97	2.68	2.48
64 G 459	C2334	2.8	300	60	2 5/8 x 2 1/4 x 4"	2 1/2	2.77	2.50	2.25	2.09

SELENIUM RECTIFIER TRANSFORMERS

BV Versatile multi-tap transformers for low voltage, high current applications. For use with CT bridge, rectifier circuit. Nominal input of 117 v., 50-60 cycle AC. With wiring chart.

Stock No.	Mfr's Type	Range of AC Vots	Max. DC Output Load		Size	Wt., Lbs.	NET EACH			
			Resistive	Capacitive			1-9	10-24	25-49	50-99
64 G 372	RT-201	11.7 to 29.4	11.2v. @ 2.0A	13.8v. @ 2.0A	3 3/8 x 2 5/8 x 3 3/8"	2 1/2	4.73	4.26	3.84	3.56
64 G 373	RT-202	11.1 to 28.5	12.0v. @ 1.25A	30.0v. @ 1.25A	3 3/8 x 2 5/8 x 3 3/8"	4	6.27	5.64	5.08	4.70
64 G 374	RT-204	11.7 to 29.2	12.0v. @ 8.0A	14.5v. @ 8.0A	4 x 3 1/4 x 4 1/2"	6 1/2	7.90	7.11	6.40	5.93
64 G 375	RT-206									

Stancor Transformers



UNIVERSAL OUTPUT TRANSFORMERS

For single or push-pull loads to voice coil. All are Fig. Q except *Fig. J. Secondary: 1500 ohms; \$500, 333, 200, 125, 50 ohms; others match any voice coil. Av. shgp. wt., 1 1/2 lbs.

Stock No.	Mfr's Type	Primary	Watts (15ma)	Size	NET EACH			
					1-9	10-24	25-49	50-99
64 G 294	A3250*	5K; 10, 20K CT	4	2x3 1/4 x 1 3/4"	2.23	2.91	2.62	2.43
64 G 005	A3822	7-10K	4	1 3/8 x 2 3/8 x 1 3/8"	1.79	1.62	1.46	1.35
64 G 026	A3823	4-14K CT	8	1 1/2 x 2 1/8 x 1 1/2"	2.28	2.06	1.85	1.71
64 G 242	A3824	6-10K	8	2x3 1/4 x 2"	3.23	2.91	2.62	2.43
64 G 002	A3825	1.5-4.5K	8	2x3 1/4 x 1 5/8"	2.58	2.32	2.09	1.94
64 G 028	A3830*	3-10K CT	20	2 1/16 x 3 3/8 x 2 1/4"	3.53	3.18	2.86	2.65
64 G 093	A3841*	2.5, 4.5, 6, 7	10	2 1/16 x 3 3/8 x 2 1/4"	4.90	4.41	3.97	3.67
64 G 023	A3849	1.5-10K	10	1 3/8 x 2 7/8 x 1 1/2"	2.19	1.97	1.77	1.65
64 G 024	A3850*	4-14K CT	8	2x2 3/8 x 1 1/2"	2.58	2.32	2.09	1.94
64 G 027	A3852*	4-14K CT	18	2 3/8 x 2 7/8 x 2"	2.84	2.56	2.30	2.14
64 G 025	A3856	4-14K CT	4	1 3/8 x 2 3/8 x 1 3/8"	2.12	1.91	1.72	1.60
64 G 292	A3870	4-14K CT	18	2 1/4 x 3 3/4 x 2 1/4"	3.23	2.91	2.62	2.43
64 G 292	A3880	4-14K CT	15	2 1/4 x 3 3/4 x 2 1/4"	3.89	3.50	3.15	2.92

FIXED-IMPEDANCE OUTPUT TRANSFORMERS

All transformers listed below are Fig. A mounting type, except *Fig. C. Type A3337 is similar to Fig. J, but has leads. Type A3330 has 4.5% primary tap used in B+ filter network for hum reduction.

Stock No.	Mfr's Type	Primary	Sec.	Watts	Mtg. Ctrs.	Wt., Lbs.	NET EACH			
							1-9	10-24	25-49	50-99
64 G 013	A2312	14,000 CT	4	10	2 3/8"	1	2.28	2.06	1.85	1.71
64 G 045	A2313	7,000	8	10	2 1/8"	1	2.22	2.00	1.80	1.67
64 G 233	A3304	7, 10K CT	500/15/8/4	25	2 1/8"	2 3/4	6.50	5.67	5.11	4.73
64 G 297	A3311*	10K CT	500/15/8/4	25	2 1/4 x 2"	3 1/2	5.94	5.35	4.81	4.46
64 G 296	A3327	25K	4	5	2"	1/2	1.60	1.44	1.29	1.21
64 G 244	A3328	4,000	3.5	3	1 3/4"	1/2	1.34	1.21	1.09	1.01
64 G 246	A3329	8,000	3.5	3	1 3/4"	1/2	1.24	1.12	1.01	.93
64 G 299	A3330	2K	3.5	5	2"	1/2	1.79	1.62	1.46	1.35
64 G 243	A3332	2,000	3.2	3	1 3/4"	1/2	1.05	.94	.84	.78
64 G 295	A3337*	5K	6-8	10	2 3/8"	1	1.99	1.79	1.62	1.50
64 G 020	A3800*	5,000 CT	500/250/15/8/4	30	2 1/4 x 2"	4	6.04	5.44	4.90	4.54
64 G 021	A3801*	6,600 CT	500/250/15/8/4	35	2 1/2 x 2 3/8"	4 3/4	7.25	6.53	5.87	5.44
64 G 098	A3831	10K CT	8/4/2	5	2 3/8"	3/4	2.35	2.12	1.90	1.76
64 G 215	A3857	25K CT	4	5	2"	1/2	1.67	1.50	1.35	1.25
64 G 001	A3876	2,000	4	5	2"	1/2	1.24	1.12	1.01	.93
64 G 004	A3877	5,000	4	5	2"	1/2	1.30	1.18	1.06	.98
64 G 006	A3878	7,000	4	5	2"	1/2	1.27	1.15	1.03	.96
64 G 010	A3879	10,000	4	5	2"	1/2	1.24	1.12	1.01	.93
64 G 518	A8094	4,000	32/16/8	7 1/2	3 3/8"	1 1/2	2.94	2.65	2.38	2.20
64 G 159	A8114	7,600	3.2	5	2"	1/2	1.73	1.56	1.40	1.30

FILAMENT TRANSFORMERS

Single-secondary transformers. Secondaries center-tapped except P6469 and P8190. *Has 6.3 v. primary and secondary for filament isolation. Fig. BV on p. 165. All others for 117 v., 60 cycle.

Stock No.	Mfr's Type	Fig.	Volts	Amps	Insul.	Mtg. Ctrs.	Wt., Lbs.	NET EACH			
								1-9	10-24	25-49	50-99
64 G 141	P6133	...	2.5	5.0	7500	2 1/8"	1 1/2	3.72	3.35	3.02	2.79
64 G 301	P3060	BV	2.5	10.0	10KV	2 1/8"	2 1/2	4.66	4.20	3.78	3.51
64 G 262	P6467	A	5.0	5.0	2500	2 1/8"	1	3.14	2.82	2.54	2.32
64 G 255	P3062	BV	5.0	6.0	2500	2 1/8"	1 1/4	4.15	3.73	3.36	3.12
64 G 887	P6465	A	6.3	6.0	1500	2 1/2"	1	1.73	1.56	1.40	1.30
64 G 888	P6492	D	5.0	3.00	2500	3x2 3/4"	7 1/2	10.61	9.55	8.60	7.97
64 G 308	P6134	A	6.3	1.2	3000	2 3/8"	1	1.89	1.71	1.54	1.42
64 G 584	P8190	A	6.3	1.2	5000	2 1/8"	1	2.48	2.23	2.01	1.86
64 G 585	P8191*	A	6.3	1.2	5000	2 1/8"	1	2.68	2.41	2.17	2.01
64 G 263	P6466	A	6.3	3.0	2500	2 1/8"	1 1/2	3.04	2.73	2.46	2.28
64 G 309	P5014	BV	6.3	3.0	2500	2x1 3/4"	2	3.56	3.20	2.88	2.68
64 G 256	P4019	C	6.3	4.0	2500	2x1 1/8"	2 1/2	4.70	4.23	3.81	3.53
64 G 264	P4089	C	6.3	6.0	2500	2 1/2 x 2"	3 1/2	5.39	4.85	4.37	4.05
64 G 312	P3064	BV	6.3	6.0	2500	2x2"	2 1/2	4.09	3.67	3.31	3.07
64 G 313	P6308	...	6.3	10.0	2500	2 1/2 x 2 3/8"	3 1/2	4.90	4.41	3.97	3.67
64 G 265	P6309	...	6.3	20.0	2500	3x2 3/8"	6 3/4	9.27	8.35	7.52	6.96
64 G 314	P5015	BV	7.5	4.0	2500	2x2 1/8"	3	4.51	3.73	3.36	3.12
64 G 257	P5016	BV	10.0	4.0	2500	2 1/2 x 2 1/8"	3 1/4	5.00	4.50	4.05	3.75
64 G 318	P6139	...	10.0	8.0	2500	2 1/2 x 2 3/8"	5	6.08	5.47	4.92	4.56
64 G 258	P4097	...	10.0	8.0	2500	2 1/2 x 2 3/8"	5	6.60	5.94	5.34	4.95
64 G 142	P8130	A	12.6	2.0	1500	2 1/8"	1 1/2	3.36	3.03	2.72	2.53
64 G 143	P6469	A	25.2	1.0	1500	2 1/8"	1 1/2	3.20	2.88	2.60	2.40

HIGH-FIDELITY OUTPUT TRANSFORMERS

Frequency response of 20-20,000 cycles at 25 watts, ±1 db. Maximum rating: 50 watts. Have inter-leaved "trifilar" windings and are well balanced. Types A8054 and A8072 may be used with Williamson amplifiers. Sizes: 4 3/8 x 3 3/8 x 4 1/4". Shgp. wt., 7 lbs.

Stock No.	Mfr's Type	Pri. Imp. (P-P)	Sec. Imp.	Max. Pri. DC Per Half	Lbs.	NET EACH			
						1-9	10-24	25-49	50-99
64 G 563	A-8053	5000	8, 16	150 ma	1	13.36	12.02	10.82	10.03
64 G 570	A-8056	6600	8, 16	125 ma	1	13.36	12.02	10.82	10.03
64 G 564	A-8054	9000	8, 16	100 ma	1	13.36	12.02	10.82	10.03
64 G 574	A-8072	7600	4, 8, 16	100 ma	1	14.27	14.70	13.23	12.25

MICROPHONE TRANSFORMERS

Type A4350 is for mike to line or line to line. Others for mike, pickup or line to grid. A4350 and A4352 are Fig. Q. A4705 is Fig. A. A4351 is Fig. TD (p. 165). 500 and 200-ohm primary sections are center-tapped.

Stock No.	Mfr's Type	Pri. Ohms	Sec. Ohms	Mtg. Ctrs.	Lbs.	NET EACH			
						1-9	10-24	25-49	50-99
64 G 094	A4350	500/333/200/125/50	Same as Pri.	2 1/8"	1	4.24	3.82	3.44	3.18
64 G 097	A4351	500/333/200/125/50	89,000	2 1/8 x 1 1/2"	1 1/2	4.54	4.09	3.67	3.41
64 G 094	A4352	500/333/200/125/50	89,000	2 1/8"	1	3.95	3.56	3.20	2.97
64 G 096	A4705	200/70	80,000	2"	1 1/2	2.09	1.88	1.70	1.57

VIBRATOR TRANSFORMERS

For New Automotive Equipment. *6-volt DC and 115-volt AC primary. Others 6-volt DC primary only. All are similar to Fig. N, except P6166, Fig. TC.

Type P4062, Secondary, 600 volts, CT; 65 ma. 3 1/2 x 2 1/2 x 2 1/2". Shgp. wt., 2 1/2 lbs.	4.66
64 G 753, NET.....	4.66
Type P4061, Secondary, 580 volts, CT; 50 ma. 3 1/2 x 2 1/2 x 2 1/2". Shgp. wt., 2 1/2 lbs.	4.24
64 G 126, NET.....	4.24
Type P6301, Secondary, 420 volts, CT; 40 ma. 2 5/8 x 2 1/8 x 1 3/4". Shgp. wt., 1 1/2 lbs.	3.40
64 G 125, NET.....	3.40
Type P6166*, Secondary, 700 volts, CT; 135 ma. Also has 6.3 volt filament @ 2.25 ampers. 4 3/4 x 4 x 3 3/8". Shgp. wt., 7 1/2 lbs.	11.01
64 G 127, NET.....	11.01

Exact Replacements. A selection of exact vibrator transformer replacements for original equipment. Av. shgp. wt., 2 lbs.

DELCO

Stock No.	Mfr's Type	Fig.	Original Part No.	NET EACH
64 G 757	P6471	TC	725581	4.96
64 G 767	P6482	TC	6060	5.71
64 G 774	P6489	R	6067	3.26

MOTOROLA

Stock No.	Mfr's Type	Fig.	Original Part No.	NET EACH
64 G 757	P6471	TA	25B472533	4.96
64 G 758	P6472	TA	C217020, C71014, 25B70950	4.96
64 G 761	P6476	TA	C70267, D70267	5.10
64 G 763	P6478	R	25C50164	3.30
64 G 894	P6493	...	25C35794	3.04

PHILCO

Stock No.	Mfr's Type	Fig.	Original Part No.	NET EACH
64 G 765	P6480	...	65-0347	3.50
64 G 766	P6481	...	32-831 3-1	3.72

INTERCOM AND TRANSCEIVER

TRANSFORMERS

[A] Type A-3833. For transceiver applications. 200 and 75K-ohm pri. for carbon mike; sec., 60K. 1 1/2 x 2 1/8 x 1 1/2". Wt., 1 lb. NET EACH..... 2.81
10 to 24, EACH..... 2.53
25 to 49, EACH..... 2.27
50 to 99, EACH..... 2.11

[D] Type A-4749. For telephone patch circuit use. 10K-ohm pri.; sec., 500 ohms. 1 1/2 x 2 1/8 x 1 1/2". Shgp. wt., 1 lb. NET EACH..... 4.24
10 to 24, EACH..... 3.82
25 to 49, EACH..... 3.44
50 to 99, EACH..... 3.18

[A] Type A-4744. For intercom use; voice coil to grid input. 4-ohm pri., sec., 25K. 1 3/8 x 2 3/8 x 1 1/2". Shgp. wt., 3/4 lb. NET EACH..... 1.83
10 to 24, EACH..... 1.65
25 to 49, EACH..... 1.48
50 to 99, EACH..... 1.37

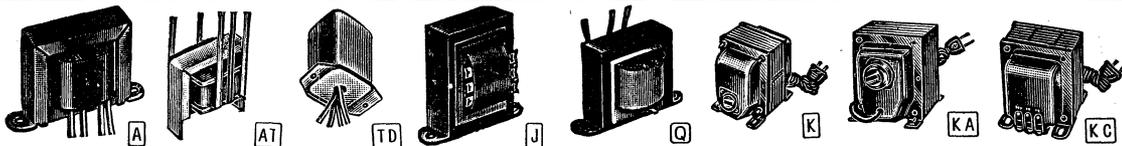
Type A-8090. Matches line to voice coil. Has 450-ohm pri., sec., 3-4, 6-8. Maximum watts, 3. Size, 1 1/2 x 2 3/8 x 1 1/2". (Not illustrated.) Shgp. wt., 3/4 lb. NET EACH..... 1.67
10 to 24, EACH..... 1.50
25 to 49, EACH..... 1.35
50 to 99, EACH..... 1.25

Type A-8091. Matches line to voice coil. 45-50 ohm pri., sec., 3-4, 6-8. Max. watts, 8. 1 1/2 x 2 3/8 x 1 1/2". (Not illustrated.) Wt., 1 lb. NET EACH..... 1.83
10 to 24, EACH..... 1.65
25 to 49, EACH..... 1.48
50 to 99, EACH..... 1.37

WM-8 CHASSIS SET

Two completely punched and finished chassis for the ultra-linear Stancor-Williamson Amplifier (use A-8072 high-fidelity output transformer, listed at left) and power supply. Complete with schematic diagram and comprehensive parts lists. Shgp. wt., 3 1/2 lbs. NET PER PAIR..... 7.35

Stancor and Acme Transformers



STANCOR TRANSISTOR TRANSFORMERS

An excellent selection of highly dependable transformers designed for use in transistor circuits. These units feature small size and weight, very important for miniaturized or portable equipment. Ideally suited for general replacement applications and installation in new equipment. Allied will stock new transistor components as they become available. *Maximum primary DC

(for each half if primary has center tap). †Type TA-14 has two secondaries, 16 ohm series, 4 ohms parallel. †Type TP-1 is for bridge rectifier power supplies; has 117 volt 60 cycle primary and 2 secondaries, each supplying 13 or 18 volts at 900 ma. Av. shpg. wt. 3 oz., except: Type TA-13, 1 1/2 lbs.; TA-14, 6 1/2 lbs.; Type TA-17, 3 lbs.; Type TP-1, 2 3/4 lbs.

INPUT TRANSFORMERS

Stock No.	Mfr's Type	Pri. Imp.	Sec. Imp.	Ma*	Pri. Res.	Sec. Res.	Watts	Size	Fig.	NET EACH			
										1-9	10-24	25-49	50-99
63 G 952	TA-1	600 CT	10	20	42	.8	.05	1 1/2x1 1/2x1 1/2"	A	1.89	1.71	1.54	1.42
63 G 857	TA-15	50-100	10	50			5mw	1 1/2x1 1/2x1 1/2"	A	1.47	1.32	1.20	1.11
63 G 860	TA-18	30 CT	50K		14.7	4060	.150	2 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 889	TA-47	1K CT	200K CT		123	1815	.300	1 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45

OUTPUT TRANSFORMERS

Stock No.	Mfr's Type	Pri. Imp.	Sec. Imp.	Ma*	Pri. Res.	Sec. Res.	Watts	Size	Fig.	NET EACH			
										1-9	10-24	25-49	50-99
63 G 959	TA-8	9800	15	2	640	2	.05	1 1/2x2 1/2x1 1/2"	A	4.24	3.82	3.44	3.18
63 G 960	TA-9	1000	4/8/16	10	180	3.5	.2	4/8x1 1/2x1 1/2"	A	4.86	4.38	3.94	3.66
63 G 961	TA-10	2K CT	4/8/16		250	4	.2	3/4x1 1/2x1 1/2"	A	5.32	4.79	4.31	4.00
63 G 962	TA-11	48 CT	8/16	275	5	1.5	.5	2x3x1 1/2x1 1/2"	A	2.74	2.47	2.22	2.06
63 G 963	TA-12	20 CT		800	.55	.35	10	1 1/2x1 1/2x1 1/2"	A	1.89	1.71	1.54	1.42
63 G 965	TA-14	24 CT	16/4CT	200			10	4 1/4x4 1/2x3 1/2"	TD	9.41	8.47	7.62	7.06
63 G 862	TA-20	350 CT	4/12		38	1.45	.150	2 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 863	TA-21	600 CT	4/8/16		75.3	3.55	.150	2 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 865	TA-23	500 CT	4/8/16		732	3.2	.150	2 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 867	TA-25	825 CT	50K		74	2.7	.150	2 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 868	TA-26	1250	4/12		132.5	1.4	.150	2 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 871	TA-29	2500	4/16		370	2.3	.150	2 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 875	TA-33	10K CT	4/8/16		1174	2.6	.150	2 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 879	TA-37	400 CT	11		71.5	1.5	.150	2 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 881	TA-39	100 CT	4/8/16		10.9	1.45	.300	1 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 882	TA-40	160 CT	4/8/16		18.7	1.4	.300	1 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 883	TA-41	400 CT	4/8/16		34	1.5	.300	1 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 884	TA-42	500 CT	4/8/16		47	.85	.300	1 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 885	TA-43	700 CT	4/8/16		77	1.15	.300	1 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 886	TA-44	2500	4/8/16		172	1.15	.300	1 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 887	TA-45	3000	4/8/16		192	1.2	.300	1 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45

INTERSTAGE TRANSFORMERS

Stock No.	Mfr's Type	Pri. Imp.	Sec. Imp.	Ma*	Pri. Res.	Sec. Res.	Watts	Size	Fig.	NET EACH			
										1-9	10-24	25-49	50-99
63 G 953	TA-2	100 CT	10 CT	100	4.3	.8	.25	1 1/2x2 1/2x1 1/2"	A	1.89	1.71	1.54	1.42
63 G 954	TA-3	100 CT	1K CT	100	5.8	.8	.25	1 1/2x2 1/2x1 1/2"	A	1.89	1.71	1.54	1.42
63 G 955	TA-4	500 CT	5K CT	12	37	250	.150	1 1/2x2 1/2x1 1/2"	A	2.48	2.23	2.01	1.86
63 G 861	TA-19	100 CT	10 CT		19	1.27	.150	2 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 864	TA-22	500 CT	50		59.7	7.9	.150	2 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 866	TA-24	500 CT	50K		76.8	5135	.150	2 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 869	TA-27	1200	20K CT		142	1860	.150	2 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 870	TA-28	1500	500 CT		104	46.5	.150	2 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 872	TA-30	5K CT	7500 CT		650	790	.150	2 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 873	TA-31	5K CT	10K CT		635	1100	.150	2 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 874	TA-32	5K CT	80K CT		573	5740	.150	2 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 876	TA-34	10K	200 CT		1200	33.4	.150	2 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 877	TA-35	10K	2K CT		1200	257	.150	2 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 878	TA-36	10K	3K CT		1200	385	.150	2 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 880	TA-38	500 CT	150 CT		62	21.2	.150	2 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45
63 G 888	TA-46	100 CT	1500 CT		3250	143	.300	1 1/2x1 1/2x1 1/2"	A	3.26	2.94	2.65	2.45

DRIVER TRANSFORMERS

Stock No.	Mfr's Type	Pri. Imp.	Sec. Imp.	Ma*	Pri. Res.	Sec. Res.	Watts	Size	Fig.	NET EACH			
										1-9	10-24	25-49	50-99
63 G 956	TA-5	1000	200 CT	10	400	115	.05	3/4x1 1/2x1 1/2"	A	4.70	4.23	3.81	3.53
63 G 957	TA-6	2000	200 CT	5	720	115	.05	3/4x1 1/2x1 1/2"	A	5.32	4.79	4.31	4.00
63 G 958	TA-7	100	100 CT	100	12	12	.5	1 1/2x1 1/2x1 1/2"	A	1.89	1.71	1.54	1.42
63 G 964	TA-13	200 CT	400 CT	10			6	3x2 1/2x1 1/2x2 1/2"	TD	4.02	3.62	3.25	2.99
63 G 858	TA-16	100	36 CT	400			1	1 1/2x2 1/2x1 1/2"	A	1.62	1.46	1.31	1.22

POWER TRANSFORMERS

63 G 966	TP-1†							3x3x2 1/2"		4.86	4.38	3.94	3.66
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MODULATION TRANSFORMERS

63 G 859	TA-17	8CT	7500/5K@120 Ma DC		35	3 1/2x3x2 1/2"				15.88	15.29	14.77	14.41
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STANCOR LINE-TO-VOICE COIL TRANSFORMERS

Type A3837 is auto-transformer; operates one or more speakers in parallel. Type

A8102 and Type A8103 are EIA 707 volt types. †Power steps in watts.

Stock No.	Mfr's Type	Primary Imp.	Secondary Imp.	Watts	Mfg. Ctrs.	Wt. Lbs.	Fig.	NET EACH			
								1-9	10-24	25-49	50-99
64 G 087	A3818	1500/1000/500	15/8/4	25	3 1/2"	2 1/2"	J	3.56	3.20	2.88	2.68
64 G 088	A3837	500/1000/1500/2000/2500/3000	.06 to 8, 12 to 16, 18 to 24, 24 to 32, 30 to 40, 36 to 48	15	2 1/2"	1 1/4"	J	3.60	3.23	2.91	2.69
64 G 098	A3883	500	15/8/6/4	25	2 1/2"	1 1/4"	J	3.07	2.76	2.49	2.30
64 G 085	A7947	2000/1500/1000/500	6-8/3.2	8	2 1/2"	3/4"	Q	2.09	1.88	1.70	1.57
64 G 086	A7949	2000/1500/1000/500	6-8/3.2	12	2 1/2"	1 1/4"	J	2.77	2.50	2.25	2.09
64 G 089	A8101	500	3.2/6-8	5	2"	3/4"	Q	1.54	1.38	1.24	1.15
64 G 091	A8102	8/4/2/1.5†	4/8/16	8	2"	3/4"	J	2.94	2.68	2.38	2.20
64 G 092	A8103	16/8/4/2/1.5†	4/8/16	16	2 1/2"	1 1/2"	J	4.12	3.70	3.33	3.09
64 G 099	A8104	3000/2000/1500/1000/500	16/8/4	10	2 1/2"	1 1/2"	J	3.99	3.59	3.22	2.99
64 G 889	A8105	5/2.5/1.25/.62/31†	4/8	5	2"	3/4"	Q	2.13	1.91	1.72	1.60
64 G 890	A8106	8/4/2/1†	4/8/16	8	2"	3/4"	J	2.94	2.65	2.38	2.20
64 G 891	A8107	16/8/4/2/1†	4/8/16	16	2 1/2"	1 1/2"	J	4.12	3.70	3.33	3.09
64 G 892	A8108	5/2.5/1.25/.62†	4/8	5	2"	3/4"	Q	2.13	1.91	1.72	1.60

STANCOR ISOLATION TRANSFORMERS

Primaries tapped for 125, 115 and 105 v., with 115 v. secondary (except R-641S). R-641S has 117 v. pri. and tapped secondary with 3 standard output receptacles for 105, 115 and 125 v.; built-in electrostatic shields are grounded internally to core. *117 v. pri. to 117 v. sec.

‡ Type P-6410. 50 watts. Size, 3 1/2x2 1/2x1 1/2". Shpg. wt., 4 lbs.
64 G 449, 1-9, EA... 6.72 10-24, EA... 6.06 25-49, EACH... 5.45 50-99, EACH... 5.05

‡ Type P-6160. 100 watts. Size, 4 1/4x4x3 1/2". Shpg. wt., 7 lbs.
64 G 443, 1-9, EA... 13.16 10-24, EA... 11.85 25-49, EACH... 10.66 50-99, EACH... 9.88

‡ Type P-6371. (Not illus.). 175 watts*. Size, 5 1/2x4 1/2x3 1/2". Shpg. wt., 9 lbs.
64 G 475, 1-9, EA... 18.95 10-24, EA... 17.06 25-49, EACH... 15.37 50-99, EACH... 14.22

‡ Type P-6415. 350 watts. Size, 5 1/2x4 1/2x3 1/2". Shpg. wt., 17 lbs.
64 G 444, 1-9, EA... 20.86 10-24, EA... 18.79 25-49, EACH... 16.90 50-99, EACH... 15.66

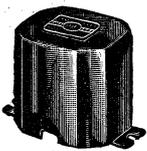
‡ Type P-6298. 500 watts. Size, 7 1/2x6 1/2x4 1/2". Shpg. wt., 28 lbs.
64 G 448, 1-9, EA... 38.69 10-24, EA... 34.84 25-49, EACH... 31.36 50-99, EACH... 29.04

STANCOR AIR CONDITIONER AUTOTRANSFORMERS

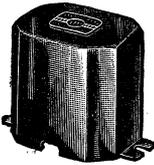
Type PSU-2000. For use with home air conditioners having 1/2 to 1-hp. motor (1/2 to 1-ton units.) Converts 208-volt unit to 230-volt line. Converting a 230-volt unit to 208-volt line is done by a simple change inside the outlet box. Supplied with line cord, standard 250-volt polarized plug, and receptacle. Rated at 2.3 KVA. Size, 3 1/2x3x1 1/2". Shpg. wt., 9 lbs.
63 G 967, 1 to 9, NET EACH... 14.45 10 to 24, EACH... 13.00 25-49, EACH... 11.71 50-99, EACH... 10.84



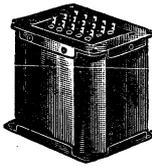
UTC Transformers



G-2



G-3, G-4



G-5
G-7
G-8
G-9
G-10
G-11
G-12

CASE DIMENSIONS

Case	Height	Width	Depth	Shpg. Wt.
G-2	2 1/2"	3 3/4"	1 1/2"	1 1/2 lbs.
G-3	2 1/2"	3 3/4"	2 1/2"	3 lbs.
G-4	2 1/2"	4 1/4"	2 1/2"	3 lbs.
G-7	3 3/4"	4 1/2"	5 1/2"	4 1/2 lbs.
G-8	4 3/8"	4 3/8"	5 1/2"	5 lbs.
G-9	4 3/8"	5 3/8"	5 3/8"	12 lbs.
G-10	5 3/8"	6 3/8"	6 3/8"	21 lbs.
G-11	5 3/8"	6 3/8"	7 3/8"	24 lbs.
G-12	10 1/4"	7 3/8"	9 1/4"	31 lbs.
				52 lbs.

POWER TRANSFORMERS—115 V., 50-60 CYCLES

All Fil. 2 windings are center tapped.

Stock No.	Type	Sec. VCT	Rec. Fil.	Fil. 1	Fil. 2	Case	1-24, EA.	25-99, EA.
62 G 739	S-39	980/800 @ 175 ma	5V, 3A	2.5 VCT, 6A	6.3V, 4A	G-7	16.17	13.75
62 G 740	S-40	1050/850 @ 250 ma	5V, 3A	6.3 VCT, 3A	6.3V, 3A	G-7	17.64	14.99
62 G 741	S-41	1200 @ 200 ma	5V, 3A	7.5V tapped	6.3V, 2A	G-7	17.64	14.99
62 G 742	S-42	1200/1050 @ 300 ma	5V, 6A	6.3V, 3A	6.3V, 3A	G-8	19.11	16.25

LINE-TO-SPEAKER TRANSFORMERS

Stock No.	Type	Watts	Primary	Sec.	Case	1-24, EA.	25-99, EA.
62 G 769	S-12	15	1500, 2000	15	G-2	5.29	4.50
62 G 770	S-13	30	1400	15	G-4	7.64	6.50



OUNCER AUDIO UNITS

Weigh only 1 ounce—for all compact applications. Response characteristics are: ±1 db 30-20,000 cps, except 0-14, 0-15, and units carrying DC, which are for voice from 150 to 4,000 cps. Maximum operating level, 0 db. Sealed in aluminum housings. 7/8" dia., 1 1/8" high. Mount by two 2-56 screws on 1/4" centers opposite terminals. Shpg. wt., 4 oz.

Stock No.	Type	Primary Impedance	Sec. Imp.	1-24, EA.	25-99, EA.
62 G 780	0-1	50, 200-250, 500-600	50,000	7.64	6.50
62 G 781	0-2	50, 200-250, 500-600	50,000 CT	7.64	6.50
62 G 782	0-3	7.5-30	50,000	7.35	6.25
62 G 783	0-4	15,000	60,000	6.47	5.50
62 G 784	0-5	15,000 DC in Pri.	60,000	6.47	5.50
62 G 785	0-6	15,000	95,000 CT	7.35	6.25
62 G 786	0-7	15,000 DC in Pri.	95,000 CT	7.35	6.25
62 G 787	0-8	15,000	150,000	7.64	6.50
62 G 788	0-9	15,000 DC in Pri.	150,000	7.64	6.50
62 G 789	0-10	30,000 plate to plate	1500-600	7.00	6.50
62 G 790	0-12	50, 200-250		7.64	6.50
62 G 793	0-13	Audio choke: 300 hys. at 0 DC; 50 hys. at 3 ma DC, 6000 ohms.		6.17	5.25
62 G 791	0-14	200	1/2 megohm	7.35	6.25
62 G 792	0-15	15,000	1/2 megohm	7.35	6.25
62 G 794	0-16	250 CT	50,000	10.00	8.50
62 G 493	0-18	10,000/2500	2000/500	8.23	7.00
62 G 494	0-19	10,000/2500	4000/1000	8.23	7.00
62 G 495	0-20	1500 CT	500/125	8.23	7.00
62 G 496	0-21	2000 CT; 4000 CT	8; 16	7.64	6.50
62 G 492	0-17	Mumetal shield; fits any Ouncer unit		1.47	1.25



SUB AND SUB-SUBOUNCER TRANSFORMERS

"Tiny" transformers for miniature equipment. Frequency response, ±3 db from 200 to 5000 cps. Sub-ouncers size 7/8"x3/4"x1/8". Weight, 1/2 oz. Sub-sub-ouncers size 7/8"x3/4"x1/8". Weight, 1/2 oz. Fixed imp. ratio; 1250:1 for SO-1 and SSO-1; 1:50 for SO-3 and SSO-3. *SO-5, 2675 ohms DC resistance; SSO-5, 4400 ohms. Wt., 2 oz.

SUB-OUNCER TRANSFORMERS

Stock No.	Type	Use	Pri. Imp.	Pri. DC	Sec. Imp.	1-24, EA.	25-99, EA.
62 G 210	†SO-1	Input	200, 50	0	250K, 62.5K	2.94	2.50
62 G 211	SO-2	Audio 1:3	10,000	0-2.5 ma	90K	2.94	2.50
62 G 212	†SO-3	Pl. to line	10K, 25K	3, 1.5 ma	200, 500	2.94	2.50
62 G 213	SO-4	Output	30,000	1 ma	50	2.94	2.50
62 G 214	SO-5	Reactor Output	50 hys @ 100,000	1 ma DC*	60	2.94	2.50
62 G 215	SO-6	Output	100,000	.5 ma	60	3.82	3.25
62 G 216	SO-7	Transistor Interstage	20K, 30K	.5 ma	800, 1200	2.94	2.50
62 G 217	SO-8	Transistor to PP sec.	10K	1 ma	2000 CT	3.53	3.00
62 G 218	SO-9	Transistor to VC	500 CT	0	3.2	3.53	3.00
62 G 497	SO-10	Transistor to VC	2K CT 4K CT	4 8	8 16	3.53	3.00

SUB-SUBOUNCER TRANSFORMERS

Stock No.	Type	Use	Pri. Imp.	Pri. DC	Sec. Imp.	1-24, EA.	25-99, EA.
62 G 236	†SSO-1	Input	200, 50	0	250K 62.5K	4.41	3.75
62 G 237	SSO-2	Interstage	10K, 25K	0-2.5 ma	90K	4.70	4.00
62 G 238	†SSO-3	Pl. to line	10K, 25K	3, 1.5 ma	200, 200	3.82	3.25
62 G 239	SSO-4	Output	30,000	1 ma	50	3.82	3.25
62 G 240	SSO-5	Reactor Output	50 hys @ 100,000	1 ma DC*	60	3.82	3.25
62 G 241	SSO-6	Output	100,000	.5 ma	60	3.82	3.25
62 G 242	SSO-7	Transistor Interstage	20K, 30K	.5 ma	800, 1200	2.94	2.50
62 G 243	SSO-9	Transistor to PP sec.	10K	1	2000 CT	3.82	3.25
62 G 244	SSO-10	Transistor to VC	10K	2	16	2.94	2.50
62 G 245	SSO-11	Transistor to VC	10K	2	3.2	2.94	2.50
62 G 247	SSO-11	Transistor Output	500	3.5	50	2.94	2.50
62 G 248	SSO-12	Transistor Output	600	3.5	60	2.94	2.50
62 G 249	SSO-13	Transistor Output	1000	3	50	2.94	2.50
62 G 249	SSO-13	Crystal to Transistor	200K	0	1000	4.41	3.75
62 G 498	SSO-14	Transistor Interstage	10K CT 25K CT	2 2	200 CT 500 CT	4.70	4.00
62 G 499	SSO-15	Transistor Interstage	20K CT 30K CT	1 1	800 CT 1200 CT	4.70	4.00

UNIVERSAL DRIVERS

Stock No.	Mfr's Type	Application	Case	1-24, EA.	25-99, EACH
62 G 761	S-8	Single driver plate to PP grids	G-3	6.47	5.50
62 G 762	S-9	PP pl. to grids of class B tubes	G-4	8.23	7.00
62 G 763	S-10	12AU7 or similar tube to 5881 or 6L6's, self or fixed bias.	G-3	6.47	5.50

UNIVERSAL OUTPUTS—TO LINE AND VOICE COIL

Secondary impedances: 500, 15, 8, 2 ohms.

Stock No.	Type	Primary Ohms	Watts	Case	1-24, EA.	25-99, EACH
62 G 764	S-14	2500, 4000, 7000, 10,000	10	G-2	6.47	5.50
62 G 765	S-15	PP tubes: 4000, 5000, 10,000	12	G-2	7.06	6.00
62 G 766	S-16	PP 3000, 6000, 9000-10,000	30	G-4	8.23	7.00

FILTER, SWINGING AND AUDIO CHOKES

Stock No.	Mfr's Type	Henrys	Ma	Ohms	Insul.	Case	1-24, EA.	25-99, EACH
62 G 776	S-23	300	5	5000	1500 V.	G-2	4.41	3.75
62 G 725	S-24	500 CT	3	6000	1500 V.	G-2	5.00	4.25
62 G 726	S-25	30	30	800	1500 V.	G-2	3.82	3.25
62 G 727	S-26	12	60	250	1500 V.	G-2	3.82	3.25
62 G 728	S-27	25	75	350	1500 V.	G-4	5.00	4.25
62 G 729	S-28	20	100	350	1500 V.	G-4	5.88	5.00
62 G 730	S-29	6	175	90	1500 V.	G-4	5.00	4.25
62 G 731	S-30	4/20	175	90	1500 V.	G-4	5.00	4.25
62 G 732	S-31	6	225	100	2700 V.	G-5	6.76	5.75
62 G 733	S-32	4/20	225	100	2700 V.	G-5	6.76	5.75
62 G 751	S-33	8	300	100	4000 V.	G-7	9.11	7.75
62 G 734	S-34	4/20	300	100	4000 V.	G-7	9.41	8.00
62 G 735	S-35	8	400	60	5000 V.	G-8	11.76	10.00
62 G 736	S-36	4/20	400	60	5000 V.	G-8	11.76	10.00
62 G 737	S-37	8	550	60	6000 V.	G-8	14.70	12.49
62 G 738	S-38	4/20	550	60	6000 V.	G-8	14.70	12.49

PLATE TRANSFORMERS—115 V., 50-60 CYCLES

Stock No.	Type	Sec. VCT	DC Ma	Case	1-24, EA.	25-99, EA.
62 G 744	S-44	1150/1050	500	G-9	23.52	19.99
62 G 745	S-45	1800/1500	200	G-8	20.58	17.49
62 G 746	S-46	2000/1500	300	G-9	23.52	19.99
62 G 748	S-47	3000/2500/2000	300	G-10	32.34	27.49
62 G 749	S-48	3000/2500/2000	500	G-11	38.22	32.49
62 G 750	S-49	4200/3600/3000	300	G-11	35.28	29.99
62 G 700	S-50	6000/5000	300	G-12	58.80	49.98

UNIVERSAL MODULATION TRANSFORMERS

Stock No.	Type	Audio Power	Case	1-24, EA.	25-99, EACH
62 G 771	S-18	12 watts	G-3	7.06	6.00
62 G 772	S-19	30 watts	G-4	9.11	7.75
62 G 773	S-20	55 watts	G-5	14.70	12.49
62 G 775	S-22	250 watts	G-9	32.34	27.49

SINGLE-SECONDARY FILAMENT TRANSFORMERS

All primaries tapped at 105, 115 volts, 50-60 cycles. *Tapped sec.

Stock No.	Type	Secondary (CT)	Ins. V.	Case	1-24, EA.	25-99, EA.
62 G 703	S-53	2.5V @ 10A	1500	G-3	5.88	5.00
62 G 704	S-54	5V @ 4A	2500	G-3	5.88	4.75
62 G 705	S-55	6.3V @ 3A	1500	G-3	5.29	4.50
62 G 707	S-57	2.5V @ 10A	1000	G-5	8.82	7.50
62 G 708	S-58	2.5V @ 20A	1000	G-5	9.41	8.00
62 G 709	S-59	5V @ 13A	5000	G-5	8.82	7.50
62 G 710	S-60	5V @ 22A	10000	G-7	12.94	11.00
62 G 711	S-61*	7.5, 6.3V @ 10A	3000	G-5	10.00	8.50
62 G 712	S-62	10V @ 10A	3000	G-5	9.11	7.75
62 G 713	S-63*	14, 12, 11V @ 10A	5000	G-7	12.94	11.00

MULTIPLE-SECONDARY FILAMENT TRANSFORMERS

Primary tapped 105, 115 volts, 50-60 cycles. Insulation, 3000 v., except S-71, 10,000 v. and S-72, 5000 v. All in G-3 case except *G-7 case.

Stock No.	Mfr's Type	Fil. 1 CT	Fil. 2 CT	Fil. 3 CT	1-24, EA.	25-99, EACH
62 G 717	S-67	5V @ 6A	6.3V @ 5A		9.70	8.50
62 G 720	S-70	6.3V @ 5A	6.3V @ 5A		10.00	8.25
62 G 721	S-71*	2.5V @ 6A	2.5V @ 6A	2.5V @ 12A	14.70	12.49
62 G 722	S-72	5V @ 3A	5V @ 6A	5V @ 6A	10.58	9.00



400 CYCLE FILAMENT TRANSFORMERS

Designed to provide maximum reliability with small size and weight. Primary for 105-115 v., 380-1000 cycles AC. All have 6.3 v. CT secondaries. Ideally suited to high reliability industrial and military needs. Hermetically sealed to MIL-T-27A specs. Av. shpg. wt., 1 lb.

Stock No.	Mfr's Type	Sec. Amp.	Ins. V.	Size	1-24, EA.	25-99, EACH
63 G 138	H-101	3	2500	1 3/4 x 1 1/2 x 2 1/2"	13.82	11.75
63 G 139	H-102	5.5	2500	1 3/4 x 2 1/4 x 2 1/2"	14.70	12.50
63 G 140	H-103	10	2500	2 1/2 x 2 1/2 x 2 1/2"	17.05	14.49
63 G 141	H-104	20	2500	2 1/2 x 2 1/2 x 3"	19.11	16.24

UTC Transformers

CASE DIMENSIONS

Case	Height	Width	Length	Mounting	Shpg. Wt.
H-1	3 1/4"	1 1/4"	2 1/4"	1 3/4"x1 1/4"	2 1/2 lbs.
A	2"	1 1/2"	1 1/2"	1 3/4"x1 1/2"	1 lb.
LS-1	3 1/4"	2 5/8"	3 1/8"	1 1/2"x2 7/8"	3 1/2 lbs.
LS-2	4 3/16"	3 1/2"	4 1/8"	2 1/4"x3 1/16"	8 lbs.
LS-3	4 1/16"	5"	5 1/4"	4 3/8"x5 1/4"	16 lbs.

TYPE HA HIPERM-ALLOY TRANSFORMERS

Lightweight audio transformers for compact, portable applications. All have Hiperm-Alloy core. Hum-balanced coil, die-cast case reduces hum. Uniform frequency response.

PLATE-TO-LINE TRANSFORMERS

Six secondary taps cover 50, 125-150, 200, 250, 333, 500-600 ohms. ±1 db from 30-40,000 cps. Maximum unbalanced DC in primary: HA-113, 0 ma.; HA-133, 8 ma.; HA-114, 1 ma. In H-1 case. *Imp. in ohms.

Stock No.	Type	Application	*Pri.	dbm	1-24, EA.	25-99, EACH
62 G 816	HA-113	Plate to mult. line	15K	+21	17.64	14.99
62 G 869	HA-133	Plate to mult. line	15K	+22	20.58	17.49
62 G 817	HA-114	PP plates to line	30K	+23	20.58	17.49

LOW-IMPEDANCE-TO-GRID AND MIXING TRANSFORMERS

Primary: 50, 125-150, 200, 250, 333, 500-600 ohms. ±1 db from 30-20,000 cps, except HA-108X, ±1 db from 20-50,000 cps. Max. level (dbm): HA-100, HA-108X, +18; HA-100X, +16. In H-1 case.

Stock No.	Type	Application	Sec. Ohms	1-24, EA.	25-99, EACH
62 G 805	HA-100	Line to grid	60,000	17.05	14.49
62 G 806	HA-100X	As above	60,000	17.05	14.49
62 G 810	HA-108X	Mixer-Line	As Pri.	19.40	16.49

INTERSTAGE AUDIO TRANSFORMER

Type HA-106. Incorporates Hiperm-Alloy nickel iron core structure and hum balanced coils. Designed to match a single plate to push-pull grids. Has split secondary. Primary impedance, 15,000 ohms. Secondary impedance, 135,000 ohms. Turns ratio, 3:1 overall. Response: from 30-20,000 cycles, ±1 db. Max. level, +20 dbm. In H-1 case.

62 G 813, 25-99, EACH..... 15.75, 1 to 24, NET EACH..... 18.52

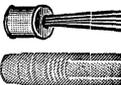
ULTRA-COMPACT HIGH-FIDELITY AUDIOS

Max. level, +15 dbm, except +1-30 dbm. *Multiple alloy shield. Response: A-10, A-12, ±2 db, 20-20,000 cps; A-11, ±2 db, 50-20,000 cps; A-16, A-18, A-19, A-25, ±2db, 40-20,000 cps; A-20, ±2 db, 10-50,000 cps; A-24, A-26, ±2 db, 20-40,000 cps; A-21, ±2 db, 30-30,000 cps; A-15, A-22, A-23, 2 db, 40-10,000 cps. In A case. Av. shpg. wt., 1 1/8 lbs.

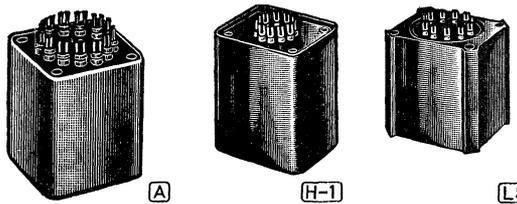
Stock No.	Mfr's Type	Pri. Imp., Ohms	Sec. Imp. Ohms	1-24, EA.	25-99, EACH
62 G 820	A-10	50, 125-150, 200-250, 333, 500-600	50K	12.94	11.00
62 G 821	A-11*	50, 200, 500	50K P.P.	11.76	10.00
62 G 822	A-12	Same as A-10	80K 2 sect.	11.76	10.00
62 G 864	A-15†	10K-2.5K	500-2K	9.70	8.25
62 G 824	A-16	15K	60K 2:1	9.70	8.25
62 G 825	A-18	15K (Split)	80K P.P. 2.3:1	11.76	10.00
62 G 826	A-19	15K—8 ma DC	80K P.P. 2.3:1	11.76	10.00
62 G 827	A-20	Same as A-10	Same as Pri.	14.11	12.00
62 G 828	A-21*	50, 200-250, 500-600	Same as Pri.	11.76	10.00
62 G 868	A-22†	500	125-500, split	9.70	8.25
62 G 873	A-23†	500	4:16, split	9.70	8.25
62 G 777	A-24	15K	As A-10 pri.	12.64	10.75
62 G 778	A-25	15K—8 ma DC	As A-10 pri.	11.76	10.00
62 G 779	A-26	30K P. to P.	As A-10 pri.	12.94	11.00
62 G 874	A-33	Mumetal shield; for any of above		2.65	2.25

"DO-TS" TRANSISTOR TRANSFORMERS

Deci-Ouncer-Transformers (DO-TS). Miniature transistor transformers weighing only 1/10 of an ounce. Low distortion, high efficiency and excellent response. Moisture-proof case has firmly anchored leads, with plastic insulation. Especially suitable for printed circuits. 3/16" dia., 1 1/2" long. Shpg. wt., 1 oz.



Stock No.	Mfr's Type	Application	Primary Ohms	Secondary Ohms	1-24, EA.	25-99, EACH
62 G 686	DO-T1	Interstage	20K-30K	800-1200	5.88	5.00
62 G 687	DO-T2	Output	500-600	50-60	5.29	4.50
62 G 688	DO-T3	Output	1K-1.2K	50-60	5.29	4.50
62 G 689	DO-T4	Output	600	3.2	5.29	4.50
62 G 690	DO-T5	Output	1.2K	3.2	5.29	4.50
62 G 691	DO-T6	Output	10K	3.2	5.88	5.00
62 G 692	DO-T7	Input	200K	1K	6.47	5.50
62 G 693	DO-T8	Reactor	3.5 hrs. @ 2 ma DC		4.70	4.00
62 G 694	DO-T9	Driv. Divr.	10K-12.5K	500-600	6.47	5.50
62 G 695	DO-T10	Driver	10K-12.5K	1.2K-1.5K	6.47	5.50
62 G 696	DO-T11	Driver	10K-12K	2K-2.5K	6.47	5.50
62 G 697	DO-T12	S/PP Output	150-200	12-16	5.59	4.75
62 G 698	DO-T13	S/PP Output	300-400	12-16	5.59	4.75
62 G 699	DO-T14	S/PP Output	600-800	12-16	5.59	5.00
62 G 699	DO-T14	S/PP Output	600-800	12-16	5.59	5.00
62 G 876	DO-T15	S/PP Output	800-1070	12-16	5.88	5.00
62 G 877	DO-T16	S/PP Output	1K-1.33K	12-16	5.88	5.00
62 G 878	DO-T17	S/PP Output	1.5K-2K	12-16	5.88	5.00
63 G 087	DO-T18	S/PP Output	7.5K-10K	12-16	6.17	5.25
63 G 088	DO-T19	Output	300	600	5.88	5.00
63 G 089	DO-T20	Output	500	600	5.88	5.00
63 G 090	DO-T21	Output	900	600	5.88	5.00
63 G 091	DO-T22	Output	1.5K	600	5.88	5.00
63 G 092	DO-T23	Interstage	20K-30K	800-1.2K	6.76	5.75
63 G 093	DO-T24	Input	200K	1K	7.35	6.25
63 G 094	DO-T25	Interstage	10K-12K	1.5K-1.8K	7.06	6.00
63 G 095	DO-T26	Reactor 6 hrs @ 2 ma DC			5.59	4.75
63 G 096	DO-T27	Reactor 1.25 hrs @ 2 ma DC			4.70	4.00
63 G 097	DO-T28	Shield, for any of above			.88	.75



TYPE LS LINEAR STANDARD TRANSFORMERS

Type LS units fulfill the most critical specifications established for broadcast equipment. All have Hiperm-Alloy cores, plus multiple-section, inter-leaved windings in a semitoroidal coil structure. Special winding methods and insulations assure minimum leakage reactance and distributed capacitance. Minimum hum pickup is achieved by the use of a high-conductivity outer case and hum-balancing coil structure.

INTERSTAGE AUDIO TRANSFORMERS

Designed for coupling single plates to PP grids. LS-19: ±1 db, 20-20,000 cps; relative hum, ±50 db. LS-21: ±1 db, 10-20,000 cps; relative hum, -74 db. Maximum level: +20 dbm. Primary impedance, 15,000 ohms; for coupling single plate to PP grids. LS-1 case.

No.	Type	Sec. Imp., Ohms	1-24, EA.	25-99, EACH
62 G 835	LS-19	95,000. Ratio, 1 1/4:1	17.64	14.99
62 G 837	LS-21	135,000. Ratio, 3:1	17.64	14.99

OUTPUT TRANSFORMERS

±1 db, 7-50,000 cps. LS-35 and LS-65 are hi-fi types: LS-35; for class AB feedback; 43% screen tap; LS-65; for class AB¹ feedback; 40% screen tap. All in LS-2 case, except *in LS-3 case.

Stock No.	Mfr's Type	Pri. Imp., Ohms	Sec. Imp., Ohms	Watts	1-24, EACH	25-99, EACH
62 G 845	LS-52	8000	1.2, 2.5, 5, 7.5, 10, 15, 20, 30, 50,	20	20.58	17.49
62 G 847	LS-55	5000, 3000	1.2, 2.5, 5, 7.5, 10, 15, 20, 30, 50,	20	23.52	19.99
62 G 850	LS-61	10,000, 6000	125, 200, 300,	20	23.52	19.99
62 G 851	LS-61L*	9000	333, 500,	30	35.28	29.99
62 G 846	LS-54	8000	1.2, 2.5, 5, 7.5, 10, 15, 20,	20	17.64	14.99
62 G 848	LS-57	5000, 3000	7.5, 10, 15, 20, 30,	20	17.64	14.99
62 G 855	LS-63	10,000, 6000	20, 30,	20	17.64	14.99
62 G 871	LS-35*	5000	4, 8, 16,	35	23.52	19.99
62 G 872	LS-65*	3300	4, 8, 16,	60	41.16	34.99

MIXING TRANSFORMERS

For mixing low-impedance mike, pickup or multiple line to multiple line. Maximum unbalanced DC in primary: LS-30, .5 ma; LS-30X, .3 ma. Primary and secondary have 6 taps: 50, 125-150, 200, 250, 333, 500-600 ohms. In LS-1 case.

Type LS-30. Maximum level, +23 dbm. Relative hum-pickup reduction compared to uncased type, -74 db. ±1 db, 7-50,000 cps.

62 G 840, 25-99, EACH..... 18.75, 1-24, NET EACH..... 22.05

Type LS-30X. Maximum level, +20 dbm. Multiple alloy shield gives relative hum-pickup reduction of -92 db. ±1 db, 20-20,000 cps.

62 G 841, 25-99, EACH..... 19.99, 1-24, NET EACH..... 23.52

HIGH-LEVEL MATCHING TRANSFORMER

Type LS-33. Primary 50, 125, 200, 250, 333, 500-600 ohms. Secondary, 1.2, 2.5, 5, 7.5, 10, 15, 20, 30, 50, 125, 200, 250, 333, 500-600 ohms. Max. level 20 watts. Response ±1 db, 10-40,000 cps. In LS-2 case.

62 G 800, 25-99, EACH..... 17.49, 1-24, NET EACH..... 20.58

LOW-IMPEDANCE-TO-GRID TRANSFORMERS

LS-10, LS-10X to single grid; others to PP grids. Relative hum-pickup reduction compared to uncased type, -72 db; †except, -92 db. Primary impedance 50, 125-150, 200, 250, 333, 500-600 ohms. *Total impedance, both sections. In LS-1 case. ±1 db, 20-20,000 cps.

Stock No.	Type	*Sec. Ohms	Max. Level†	1-24, EA.	25-99, EACH
62 G 829	LS-10	60,000	+19 dbm	20.58	17.49
62 G 830†	LS-10X	50,000	+17 dbm	20.58	17.49
62 G 831	LS-12	120,000	+19 dbm	24.70	20.99
62 G 867†	LS-12X	80,000	+17 dbm	23.52	19.99

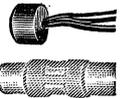
PLATE-TO-LINE TRANSFORMERS

LS-50, single plate to multiple line. LS-51, for push-pull low-level plates to multiple line. Secondary impedances: 50, 125-150, 200, 250, 333, 500-600 ohms. In LS-1 case. ±1 db, 10-40,000 cps.

Stock No.	Type	Pri. Ohms	Max. Level†	1-24, EA.	25-99, EACH
62 G 843	LS-50	15,000	+23 dbm	20.58	17.49
62 G 844	LS-51	30,000	+24 dbm	26.46	22.49

TYPE DI-T TRANSFORMERS

Extremely compact transformers for transistor applications. Weigh 0.06 oz. and measure only 5/16" dia. by 1/2" long. Hermetically sealed to MIL-T-27A standard. Excellent for printed circuit use—solder melting plastic covered leads. Leads withstand 10 lb. pull. Shpg. wt., 1 oz.



Stock No.	Mfr's Type	Application	Primary Ohms	Secondary Ohms	1-24, EA.	25-99, EACH
63 G 106	DI-T2	Output	500-600	50-60	6.17	5.25
63 G 107	DI-T3	Output	1K-1.2K	50-60	6.17	5.25
63 G 108	DI-T8	Reactor	2.5 hrs. @ 2 ma DC		6.59	4.75
63 G 109	DI-T9	Driv. Divr.	10K-12.5K	500-600	7.35	6.25
63 G 110	DI-T10	Driver	10K-12.5K	1.2K-1.5K	7.35	6.25
63 G 111	DI-T11	Driver	10K-12K	2K-2.5K	7.35	6.25
63 G 112	DI-T19	Output	300	600	6.76	5.75
63 G 113	DI-T20	Output	500	600	6.76	5.75
63 G 114	DI-T22	Output	1.5K	600	6.76	5.75
63 G 137	DI-T23	Interstage	20K-30K	800-1.2K	7.64	6.50

UTC Transformers and Inductors

TRANSFORMERS, TOROIDS, FILTERS, VOLTAGE CONTROLS, INDUCTORS



M



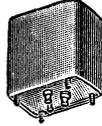
CG, CVP, CVM



HVC



VIC



BMA

FIXED-IMPEDANCE & VARIMATCH AUDIO OUTPUT TRANSFORMERS

Designed for industrial and commercial use where dependable operation is essential. Windings are vacuum impregnated and entire unit is sealed with a special compound. Will withstand extremes of climate. Response of all units = 1 1/2 db from 40 to 10,000 cps. P-P primary of CG-15 8000 ohms; CG-16 3000 and 5000 ohms; have 1.5, 3, 5, 8, 16, 2000 and 500 ohm taps on secondary. CVP-1 and CVP-2 are Varimatch type. Will match any tubes to line or voice coil. Pri. imp.: 3000, 5000, 6000, 7000, 8000, 10,000, 14,000 ohms. Sec. imp.: 1.5, 3, 5, 8, 16, 50, 200, 500 ohms. All units include 2 1/2" mounting hole, except *3" hole. Shpg. wt. and size: 3 3/4 x 3 3/4", 3 1/2 lbs; except *4 1/2 x 3 3/4", 6 1/2 lbs.

Stock No.	Mfr's Type	Watts	Typical Tubes	1-24, EACH	25-99, EACH
62 G 922	CG-15	20	6A05, 6V6, 6F6 triode	11.76	10.00
62 G 923	CG-16	20	2A3, 6AS7G, 6L6, 6080	11.76	10.00
63 G 067	CVP-1	12	2A3, 6A05, 6V6, 25L6	12.94	11.00
63 G 068	*CVP-2	30	2A3, 6L6, 807, 5881, 6V6	14.11	11.98

VARIMATCH MODULATION UNITS

Match any modulator tubes to any RF load. Vacuum impregnated and sealed against moisture. Primary imp., from 500 to 20,000 ohms; secondary imp. from 30,000 to 300 ohms. Maximum audio ratings, CVM-0 12 w., CVM-1 30 w., CVM-2 60 w. *Maximum watts. Shpg. wt.: CVM-0 3 1/2 lbs.; CVM-1, 6 1/2 lbs.; CVM-2, 11 lbs.

Stock No.	Mfr's Type	Class C Input*	Size	1-24, EACH	25-99, EACH
63 G 069	CVM-0	25	3 x 3 3/4"	10.29	8.75
63 G 070	CVM-1	60	3 3/4 x 4 1/2"	13.52	11.49
63 G 071	CVM-2	125	4 1/2 x 5 1/2"	17.64	14.99

HI-FI OUTPUT TRANSFORMERS

Hi-fi units. Sec. imp.: 4, 8, 16 ohms, 70 volt. Pri. imp.: CG-20 5000CT, 43% screen taps; CG-21 3300CT, 40% screen taps. Size and wt.: CG-20 3 3/4 x 4 1/2", 6 1/2 lb.; CG-21 4 1/2 x 5 1/2", Shpg. wt., 11 lbs.

Stock No.	Mfr's Type	Watts	Typical Tubes	1-24, EACH	25-99, EACH
62 G 102	CG-20	25	EL-34's in AB	14.70	12.49
62 G 103	CG-21	50	6550's in AB	23.52	19.99

INPUT, INTERSTAGE, MIXING AND LOW-LEVEL OUTPUT TRANSFORMERS

A new line of transformers designed for a wide variety of applications. Shpg. wts.: CG-132, 1 lb.; CG-133, 1 1/2 lbs.; CG-134, 1/2 lb.; CG-140, 1/2 lb.; CG-141, 1/2 lb.

Stock No.	Mfr's Type	Application	1-24, EACH	25-99, EACH
62 G 104	CG-132	1 plate to 2 grids	9.70	8.25
62 G 105	CG-133	2 plates to 2 grids	10.29	8.75
62 G 106	CG-134	Line to 1 grid	8.82	7.50
62 G 219	CG-140	Triode plate to line	7.64	6.50
62 G 108	CG-141	PP plates to line	8.82	7.50

FILTER CHOKES

Inductance shown is at rated DC ma. Shpg. wts.: CG-40, 5 lbs.; CG-48C, 2 1/2 lbs.; CG-102, 11 lbs.; CG-104, 15 1/2 lbs.; CG-108, 22 lbs.

Stock No.	Mfr's Type	Hys.	DC Ma.	DC Ohms	1-24, EACH	25-99, EACH
62 G 109	CG-40	10	200	11.0	7.94	6.75
62 G 111	CG-48C	75	50	2200	7.35	6.25
62 G 112	CG-102	12	250	10.0	12.94	11.00
62 G 226	CG-104	10	350	9.0	14.70	12.49
62 G 113	CG-108	10	500	52	26.46	22.49

SWINGING INPUT CHOKE

Model CG-105. Input choke for improving voltage regulation in DC power supplies. Inductance increases as load decreases—varies from 5 henrys at 350 ma DC maximum rating to 25 henrys at 35 ma. Has DC resistance of 90 ohms. Insulation-tested at 5000 v. rms. Height, 5 1/2" cutout dia. 4". 15 1/2 lbs. 62 G 227, 1-24, NET EACH.....14.70 25-99, EACH.....12.49

TYPE M TOROIDS

Coils conform to MIL-T-27 specifications. Inductance is virtually independent of frequency, temperature and vibration. Extremely low hum pickup. Very high Q available. Typical Q values: MQE-7 max. Q 130 @ 8 kc; MQA-10, 150 @ 5 kc; MQB-5, 250 @ 3 kc and 50 @ 250 cycles. Lab. adjusted to 1% tot. DC currents shown will drop coil inductance 5%. Shpg. wts., MQE 2 oz.; MQA, 4 oz.; MQB 14 oz.

Stock No.	Mfr's Type	Inductance	Max. Hys.*	1-24, EACH	25-99, EACH
62 G 945	MQE-1	7 mhy	135	7.06	6.00
62 G 946	MQE-2	12 mhy	100	7.35	6.25
62 G 947	MQE-3	20 mhy	80	7.64	6.50
62 G 948	MQE-4	30 mhy	65	7.64	6.50
62 G 949	MQE-5	50 mhy	50	7.94	6.75
62 G 975	MQE-6	70 mhy	40	8.23	7.00
62 G 976	MQE-7	100 mhy	35	8.23	7.00
62 G 977	MQE-8	150 mhy	30	8.53	7.25
62 G 978	MQE-9	.25 hy	22	8.53	7.25
62 G 979	MQE-10	.4 hy	17	8.82	7.50
62 G 980	MQE-11	.6 hy	14	8.82	7.50
62 G 981	MQE-12	.9 hy	12	9.11	7.75
62 G 982	MQE-13	1.5 hy	9	9.70	8.25
62 G 983	MQE-14	2 hy	8	10.58	9.00
62 G 984	MQE-15	2.8 hy	7.2	11.76	10.00

TYPE MQA—1 1/2 x 1 1/2 x 1 1/2"

Stock No.	Mfr's Type	Inductance	Max. Hys.*	1-24, EACH	25-99, EACH
62 G 985	MQA-1	7 mhy	250	7.35	6.25
62 G 986	MQA-2	12 mhy	200	7.64	6.50
62 G 987	MQA-3	20 mhy	150	7.94	6.75
62 G 988	MQA-4	30 mhy	125	8.23	7.00
62 G 989	MQA-5	50 mhy	100	8.53	7.25
62 G 990	MQA-6	70 mhy	80	8.82	7.50
62 G 991	MQA-7	120 mhy	60	9.11	7.75
62 G 992	MQA-8	.2 hy	50	9.41	8.00
62 G 993	MQA-9	.3 hy	40	9.70	8.25
62 G 994	MQA-10	.5 hy	30	10.00	8.50
62 G 995	MQA-11	.7 hy	25	10.29	8.75
62 G 996	MQA-12	1 hy	20	10.58	9.00
62 G 997	MQA-13	1.5 hy	17	10.88	9.25
62 G 998	MQA-14	2.5 hy	13	11.17	9.50
62 G 999	MQA-15	4 hy	10	11.76	10.00
62 G 967	MQA-16	6 hy	9	12.64	10.75
62 G 968	MQA-17	10 hy	7	13.52	11.49
62 G 969	MQA-18	15 hy	5	14.70	12.49
62 G 970	MQA-19	22 hy	4	17.64	14.99

TYPE MQB—2 1/2 x 1 1/2 x 1 1/2"

Stock No.	Mfr's Type	Inductance	Max. Hys.*	1-24, EACH	25-99, EACH
62 G 953	MQB-1	20 mhy	400	12.64	10.75
62 G 954	MQB-2	30 mhy	250	12.94	11.00
62 G 955	MQB-3	70 mhy	170	13.23	11.25
62 G 956	MQB-4	120 mhy	120	13.52	11.49
62 G 957	MQB-5	.5 hy	60	13.82	11.75
62 G 958	MQB-6	1 hy	40	14.11	11.98
62 G 959	MQB-7	2 hy	30	14.41	12.25
62 G 962	MQB-8	3.5 hy	22	14.70	12.49
62 G 963	MQB-9	7.5 hy	16	15.59	13.25
62 G 964	MQB-10	12 hy	11	16.46	13.99
62 G 965	MQB-11	18 hy	9	17.64	14.99
62 G 973	MQB-12	25 hy	8	18.82	15.99

LOW-FREQUENCY HIGH "Q" COILS

Special constructed coils of laminated permalloy to provide high Q at low frequencies. Q of 45 at 100 cycles. Exceptional temperature stability. Inductance values laboratory adjusted to 2% tolerance at 1 volt, 60 cycles. Very low hum pickup assured by heavy Hi-permalloy shielding and laminated structure. Two identical windings brought out to 4 terminals permit series, parallel, center-tapped, or transformer type connections. Requires 1 1/2" dia. cutout 1 1/4" dia. x 2 1/2". Shpg. wt., 1 lb.

Stock No.	Mfr's Type	Series Hy.	Parallel Hy.	1-24, EACH	25-99, EACH
62 G 896	MLQ-1	10	2.5	20.58	17.49
62 G 897	MLQ-2	20	5	20.58	17.49
62 G 898	MLQ-3	200	50	20.58	17.49
62 G 899	MLQ-4	400	100	22.34	18.99

FILAMENT TRANSFORMER

Model CG 33. 6.3 v. transformer rated for continuous duty. Vacuum impregnated and sealed in cylindrical case. Has primary tapped for 105, 115, 210, 220 and 230 volts, 50-60 cycle AC. 6.3 v. center-tapped secondary rated at 4 amps. Rated at 500 W/DC. 2000 v. rms test. 2 7/8 x 1 7/8" dia. Shpg. wt., 1 1/2 lbs. 62 G 228, 1-24, NET EACH.....8.82 25-99, EACH.....7.50

TYPE HVC VARIABLE INDUCTORS

Wide-range, high-Q variable inductors offering exceptional voltage and temperature stability. Ideal for filter, oscillator, equalizer, tuned amplifier, and other similar applications. Hermetically sealed to MIL-T-27A specifications. All are MIL type TF4RX20VY. *Adjustment screw on top of case permits changing inductance +200% to -70% of mean value. Range is covered in 100° rotation. Mount by two 4x40 studs. Size, 1 1/2" high, 1 1/2" wide and 2 1/2" deep. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Mean Hys.*	Max. Ma.	1-24, EACH	25-99, EACH
62 G 114	HVC-1	.006	100	8.82	7.50
62 G 115	HVC-2	.015	60	8.82	7.50
62 G 116	HVC-3	.040	40	8.82	7.50
62 G 117	HVC-4	.1	30	8.82	7.50
62 G 118	HVC-5	.25	20	8.82	7.50
62 G 119	HVC-6	.6	15	8.82	7.50
62 G 121	HVC-7	1.5	10	9.41	8.00
62 G 122	HVC-8	4.0	7	9.41	8.00
62 G 123	HVC-9	10	5	9.41	8.00
62 G 124	HVC-10	25	3.5	9.70	8.24
62 G 126	HVC-11	50	2	10.58	9.00
62 G 127	HVC-12	150	1.5	11.76	10.00

TYPE VIC VARIABLE INDUCTORS

A wide selection of high-quality, economy-priced variable inductors. Provide solution to many tuned audio circuit problems. Excellent for use in oscillators, tuned amplifiers, equalizers, and filters. Have convenient adjustment screw on side of case. *600° rotation of screw varies inductance from +85% to -45% of mean value. Adjustment lock included. Housed in rugged die cast case, 1 1/2 x 1 1/4 x 1 1/2". Tapped for four 4-40 screws. Mtg. ctrs., 1 1/8 x 3/8". Shpg. wt., 6 oz.

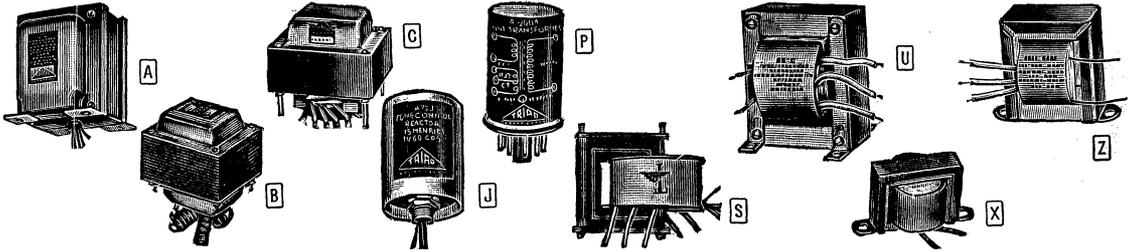
Stock No.	Mfr's Type	Mean Hys.*	Max. Ma.	1-24, EACH	25-99, EACH
62 G 900	VIC-1	.0085	75	6.47	5.50
62 G 901	VIC-2	.013	60	6.47	5.50
62 G 902	VIC-3	.021	50	6.47	5.50
62 G 903	VIC-4	.034	40	6.47	5.50
62 G 904	VIC-5	.053	35	6.47	5.50
62 G 905	VIC-6	.084	30	6.47	5.50
62 G 906	VIC-7	.13	25	6.47	5.50
62 G 907	VIC-8	.21	21	6.76	5.75
62 G 908	VIC-9	.34	18	6.76	5.75
62 G 909	VIC-10	.54	15	6.76	5.75
62 G 910	VIC-11	.85	12	6.76	5.75
62 G 911	VIC-12	1.3	10	7.06	6.00
62 G 912	VIC-13	2.2	8	7.06	6.00
62 G 913	VIC-14	3.4	7	7.06	6.00
62 G 914	VIC-15	5.4	6	7.35	6.25
62 G 915	VIC-16	8.5	5	7.35	6.25
62 G 916	VIC-17	13.	4	7.35	6.25
62 G 917	VIC-18	21.	3.5	7.64	6.50
62 G 918	VIC-19	33.	3	7.64	6.50
62 G 919	VIC-20	52.	2	8.23	7.00
62 G 920	VIC-21	83.	1.5	8.82	7.50
62 G 921	VIC-22	130.	1	11.76	10.00

INTERSTAGE AND LINE FILTERS

High quality filters designed for applications at the common mid-range frequencies. First letter in Type No. indicates function: B—bandpass; H—high-pass; L—low-pass. Last letter: L—interstage (10,000 ohms); L—line (500/600 ohm). Shielded, reduce hum pickup to 150 mv. per gauss at 60 cps. Hermetically sealed in case. Require 7/8" dia. cutout. 4 hole mounting with 6-32 screws; mtg. centers 3/4 x 1/4". Size, 1 1/2 x 1 1/4 x 1 1/2", except *1 1/2 x 1 1/2 x 2 1/2". Av. shpg. wt., 9 oz.

Stock No.	Mfr's Type	Cycles	1-24, EACH	25-99, EACH
62 G 950	BMI-60	60		
62 G 904	BMI-100	100	26.46	22.49
62 G 005	BMI-120	120		
62 G 951	BMI-400	400		
62 G 006	BMI-500	500		
62 G 007	BMI-750	750		
62 G 952	BMI-1000	1000	26.46	22.49
62 G 009	BMI-3000	3000		

Triad Transformers



TRANSISTOR POWER TRANSFORMERS

S Type TY-68S. Highly efficient transistor power supply transformer. May be used in conjunction with transistor oscillator and silicon rectifiers to step up DC voltage from 12 to 250 volts. Rated at a maximum of 65 ma. mounting centers are 1 1/2". Size (HWD), 1 3/4 x 1 3/4 x 1 1/2". Shpg. wt., 8 oz.
 61 G 944. 6-24, EA. 7.51 1-4, EA. 8.34
 25-49, EA. 6.76 50-99, EA. 6.26

S Type TY-69S. Same as above but 300 VDC, 100 ma max. rating. 1 1/2 x 2 1/2 x 1 1/2".
 61 G 945. 6-24, EA. 9.50 1-4, EA. 10.56
 25-49, EA. 8.55 50-99, EA. 7.92

S Type TY-70S. As above but 325 VDC, 150 ma max. rating. Size, 2 1/2 x 2 1/2 x 1 1/2".
 61 G 946. 6-24, EA. 10.26 1-4, EA. 11.40
 25-49, EA. 9.23 50-99, EA. 8.55

S Type TY-71S. As above but 375 VDC, 200 ma max. rating. Size, 2 3/4 x 2 1/2 x 1 1/2".
 61 G 947. 6-24, EA. 11.07 1-4, EA. 12.30
 25-49, EA. 9.96 50-99, EA. 9.23

S Type TY-74S. As above but 600 VDC, 200 ma max. rating. Size, 2 1/4 x 3 1/2". Mfg. ctrs. 3 1/4".
 61 G 948. 6-24, EA. 13.50 1-4, EA. 15.00
 25-49, EA. 12.15 50-99, EA. 11.25

A Type TY-66A. Outstanding new modulation transformer for transistor applications. Supplies up to 40 audio watts. 6 ohm CT primary rated at 5 amps. Secondary has taps for 6000/4000/3000 RF loads. Size (HWD), 3 3/8 x 3 3/8 x 3 3/8". Shpg. wt., 4 3/4 lbs.
 61 G 949. 6-24, EA. 7.83 1-4, EA. 8.70
 25-49, EA. 7.05 50-99, EA. 6.53

A Type TY-67A. Has power level up to 40 watts. Pri. im. 6 ohms (CT); secondary tapped for 16/3/4 ohm output im. 3 3/8 x 3 3/8 x 3 3/8". Shpg. wt., 4 3/4 lbs.
 61 G 950. 6-24, EA. 8.24 1-4, EA. 9.15
 25-49, EA. 7.42 50-99, EA. 6.86

X Type M-1X. 5 audio watt modulation transformer with 10,000 ohm primary tapped for modulator tubes. Secondary impedance, 5000/8000/10000 ohms. Rated at 50 ma. Size: 1 3/4 x 2 1/2 x 1 1/4". Wt., 7/4 lb.
 61 G 952. 6-24, EA. 2.43 1-4, EA. 2.70
 25-49, EA. 2.19 50-99, EA. 2.03

X Type M-3X. 20 audio watt modulation transformer with 10,000 ohm primary center tapped for modulator tubes. Sec. impedance, 3000/5000/8000. Rated at 100 ma. Size: 2 1/4 x 3 1/4 x 2 1/2". Wt., 1 1/2 lbs.
 61 G 939. 6-24, EA. 4.02 1-4, EA. 4.47
 25-49, EA. 3.62 50-99, EA. 3.35

T Type M-4Z. 10 audio watt modulation autotransformer with 5000 ohm primary. Tapped secondary with 6750/4 ohm im. Rated at 100 ma (total). 1 1/4 x 2 1/2 x 1 1/4".
 61 G 952. 6-24, EA. 2.70 1-4, EA. 3.00
 25-49, EA. 2.43 50-99, EA. 2.25

Z Type M-6Z. 20 audio watt modulation autotransformer with 5000 ohm primary. Has tapped secondary with 6750/4 ohms impedance. Rated at 165 ma (total). Size: 2 1/4 x 3 1/4 x 2 1/2". Wt., 1 1/2 lbs.
 61 G 953. 6-24, EA. 3.59 1-4, EA. 3.99
 25-49, EA. 3.23 50-99, EA. 2.99

P Type A-200P. High-quality input transformer for coupling low impedance line or mike to amplifier. Has 70 db magnetic shielding. Equipped with nine prong plug for quick easy insertion. Primary is center tapped to match 200/50 ohm source to 36,000 ohm load impedance. Frequency response: 50-15,000 cps. 2 1/2" high; 1 1/4" dia. Shpg. wt., 1/4 lb.
 61 G 954. NET. 14.40

P Type A-202P. Same as above in application and impedance characteristics. Has 90 db magnetic shielding and 30-15,000 cps response. 2 3/4" high; 1 3/4" dia. 1/2 lb.
 61 G 955. NET. 19.02

P Type HS-273P. Similar in application to above. Has eight prong plug for use with standard octal socket. Primary is center tapped to match 200/50 ohm source to 80,000 ohm load impedance. 70 db magnetic shielding. Response: 30-30,000 cps. 1 3/4" high; 1 3/8" dia. Shpg. wt., 1/2 lb.
 61 G 956. NET. 16.80

P Type A-200P. High-quality input transformer for coupling low impedance line or mike to amplifier. Has 70 db magnetic shielding. Equipped with nine prong plug for quick easy insertion. Primary is center tapped to match 200/50 ohm source to 36,000 ohm load impedance. Frequency response: 50-15,000 cps. 2 1/2" high; 1 1/4" dia. Shpg. wt., 1/4 lb.
 61 G 954. NET. 14.40

P Type A-202P. Same as above in application and impedance characteristics. Has 90 db magnetic shielding and 30-15,000 cps response. 2 3/4" high; 1 3/4" dia. 1/2 lb.
 61 G 955. NET. 19.02

P Type HS-273P. Similar in application to above. Has eight prong plug for use with standard octal socket. Primary is center tapped to match 200/50 ohm source to 80,000 ohm load impedance. 70 db magnetic shielding. Response: 30-30,000 cps. 1 3/4" high; 1 3/8" dia. Shpg. wt., 1/2 lb.
 61 G 956. NET. 16.80

P Type A-200P. High-quality input transformer for coupling low impedance line or mike to amplifier. Has 70 db magnetic shielding. Equipped with nine prong plug for quick easy insertion. Primary is center tapped to match 200/50 ohm source to 36,000 ohm load impedance. Frequency response: 50-15,000 cps. 2 1/2" high; 1 1/4" dia. Shpg. wt., 1/4 lb.
 61 G 954. NET. 14.40

P Type A-202P. Same as above in application and impedance characteristics. Has 90 db magnetic shielding and 30-15,000 cps response. 2 3/4" high; 1 3/4" dia. 1/2 lb.
 61 G 955. NET. 19.02

P Type HS-273P. Similar in application to above. Has eight prong plug for use with standard octal socket. Primary is center tapped to match 200/50 ohm source to 80,000 ohm load impedance. 70 db magnetic shielding. Response: 30-30,000 cps. 1 3/4" high; 1 3/8" dia. Shpg. wt., 1/2 lb.
 61 G 956. NET. 16.80

POWER TRANSFORMERS

Last letter in Mfr's Type No. indicates case style. *CT.

Stock No.	Mfr's Type	Plate Volts	Ma	Filaments				Size (HWD)	Wt. Lbs.	NET EACH			
				Volts	Amps	Volts	Amps			1-4	5-24	25-49	50-99
61 G 901	R-2C	135	15	.....	.....	6.3	.9	1 3/4 x 1 1/2 x 1 3/4"	1	3.84	3.46	3.11	2.88
64 G 936	R-3A	500*	20	.....	.....	6.3*	2	2 1/4 x 2 1/2 x 2 1/2"	1 1/4	4.95	4.46	4.01	3.71
64 G 976	R-4A	500*	40	.....	.....	6.3*	2	2 1/4 x 2 1/2 x 2 1/2"	1 1/4	4.95	4.46	4.01	3.71
64 G 977	R-5A	600*	65	.....	.....	6.3*	2.7	3 1/2 x 2 1/2 x 2 1/2"	2 1/4	5.73	5.16	4.64	4.30
61 G 900	R-6A	480*	50	5	2	6.3*	5	3 1/2 x 2 1/2 x 2 1/2"	2 1/4	5.73	5.16	4.64	4.30
64 G 978	R-7A	600*	50	5	2	6.3*	2	3 1/2 x 2 1/2 x 2 1/2"	2 1/4	6.15	5.54	4.98	4.61
61 G 902	R-8A	500*	75	5	2	6.3*	2.5	3 1/2 x 2 1/2 x 3 1/4"	2 1/2	6.60	5.94	5.35	4.95
64 G 979	R-9A	600*	75	5	2	6.3*	3	3 1/2 x 3 x 3 3/8"	3 1/2	7.14	6.43	5.78	5.36
61 G 903	R-10A	525*	90	5	2	6.3*	5	3 3/4 x 3 x 3 3/8"	4 1/2	7.92	7.13	6.42	5.94
64 G 986	R-11A	700*	90	5	2	6.3*	3.5	3 1/2 x 3 x 3 3/8"	4 1/2	8.07	7.26	6.54	6.05
61 G 904	R-12A	550*	110	5	2	6.3*	5	3 3/4 x 3 x 3 3/8"	4 1/2	7.95	7.16	6.44	5.96
64 G 987	R-14A	700*	125	5	3	6.3*	4.5	4 3/8 x 3 1/2 x 3 1/2"	6	9.27	8.34	7.51	6.95
61 G 905	R-16A	700*	160	5	3	6.3*	5	3 3/4 x 3 1/2 x 4 1/4"	7	10.62	9.56	8.60	7.97
61 G 906	R-18A	750*	175	5	3	6.3*	8	4 1/2 x 3 1/2 x 4 1/2"	8 1/2	12.30	11.07	9.96	9.23
61 G 907	R-20A	700*	200	5	3	6.3*	8	4 1/2 x 3 1/2 x 4 1/2"	8 1/2	12.24	11.02	9.91	9.18
61 G 908	R-21A	800*	200	5	3	6.3*	6	4 1/2 x 3 1/2 x 4 1/2"	9 1/4	13.35	12.02	10.81	10.01
61 G 909	R-29A	230*	40	.....	.....	6.3	1.5	2 3/4 x 2 1/2 x 2 1/2"	1 1/4	4.95	4.46	4.01	3.71
61 G 910	R-30X	135	50	.....	.....	6.3	1.5	2 3/4 x 2 1/2 x 2 1/2"	1 1/4	4.02	3.62	3.26	3.02
61 G 911	R-54X	115	15	.....	.....	6.3	.6	1 1/2 x 2 1/2 x 1 1/2"	1	3.48	3.13	2.82	2.61
61 G 912	R-11A	900*	250	5*	4	6.3*	2/3	4 1/2 x 4 x 3 1/2"	12	16.50	14.85	13.37	12.38
61 G 913	R-72A	800*	140	5	3	6.3	4	4 1/2 x 3 1/2 x 4 1/2"	5 1/2	11.25	10.13	9.11	8.44
61 G 914	R-73B	135	200	.....	.....	6.3*	5.5	2 3/4 x 2 1/2 x 2 1/2"	5 1/2	7.50	6.75	6.08	5.63
61 G 915	R-56A	130	20	0/15	2	6.3	6/6	2 1/2 x 2 1/2 x 2 1/2"	2	6.06	5.45	4.91	4.55
61 G 916	R-68A	800*	30	5	2	6.3	6.3/1.2	2 1/2 x 2 1/2 x 3 1/2"	3	8.31	7.48	6.73	6.23
61 G 917	R-41C	800*	125	5	3	6.3	.6	3 1/2 x 4 x 3 1/2"	7 1/2	16.62	14.96	13.46	12.47
61 G 918	R-43C	1250	5	2.5/2.5	1.75/1.75	6.3/6.3	1/3	2 1/2 x 3 x 2 1/2"	3 1/2	9.87	8.88	8.00	7.40
61 G 919	R-45C	800*	30	5/5	2/2	6.3/6.3	1/6	2 1/2 x 3 x 3 1/2"	4 1/2	12.96	11.66	10.50	9.72

DRIVER, INTERSTAGE, AND INPUT TRANSFORMERS

Response, 300-3000 cps except *30-15,000; †70-7000; ‡50-10,000. †Spade-lug mtg. Last letter in Type No. is case style.

Stock No.	Mfr's Type	Test Volts	Primary Ohms/MA	Turns Ratio	Size	Wt. Lbs.	NET EACH			
							1-4	5-24	25-49	50-99
64 G 989	A-1X	line/SB mike to grid	100	31:4.1	1 3/4 x 2 1/4 x 1 3/4"	1/4	1.98	1.78	1.61	1.49
61 G 925	A-3X	line/DB mike to grid	400 CT	15:8.1	1 3/4 x 2 1/4 x 1 3/4"	1/4	2.16	1.94	1.75	1.62
61 G 926	A-4X	line to grid	500/200/67.5CT	12:1	1 3/4 x 2 1/4 x 1 3/4"	1/4	2.25	2.03	1.82	1.69
61 G 927	A-5X	SB mike-p.p. grids	100	84:1	1 1/2 x 2 1/2 x 1 1/2"	1/4	2.97	2.67	2.41	2.23
61 G 928	A-6X	speaker v.c. to grid	8/3.2	79:1	1 3/4 x 2 1/4 x 1 3/4"	1/4	2.16	1.94	1.75	1.62
61 G 929	A-7J†	speaker v.c. to grid	3.2	124:1	1x1 1/2 x 1 1/2"	1/4	5.01	4.51	4.06	3.76
61 G 930	A-9J†	line/mike to grid	600/250/50	12:1	1 1/2 x 1 1/2 x 1 1/2"	1/4	9.30	8.37	7.53	6.98
64 G 934	A-21X	SB/mike/plate to grid	100 & 10,000	1:3	1 3/4 x 2 1/4 x 1 3/4"	1/4	2.31	2.08	1.87	1.73
64 G 991	A-31X	plate to s/p.p. grids	10,000	1:3	1 3/4 x 2 1/4 x 1 3/4"	1/4	2.16	1.94	1.75	1.62
61 G 920	A-33X†	plate to s/p.p. grids	100 ma. in Pri.	1:3	1 1/2 x 6 3/4 x 1 1/2"	1	2.97	2.67	2.41	2.23
64 G 993	A-81X	driver (30, 1H4)	15 ma. in Pri.	2.66:1 1/2 sec.	1 3/4 x 2 1/4 x 1 3/4"	1/4	2.07	1.86	1.68	1.55
61 G 921	A-82X†	driver (6F6, 42, 45)	40 ma. in Pri.	1.33:1 1/2 sec.	1 1/2 x 2 1/4 x 1 1/2"	1/4	2.58	2.32	2.09	1.94
61 G 922	A-85X†	driver (6F6, 42, 45)	40 ma. in Pri.	2.66:1	1 1/2 x 2 1/4 x 1 1/2"	1	2.94	2.65	2.38	2.21
61 G 923	A-89A§	p.p. plates to grids	100 ma. ea. side	3.1/1.8:1.2 sec.	3 3/4 x 2 1/2 x 2 1/2"	2 1/4	6.60	5.94	5.34	4.95
61 G 924	A-91A§	p.p. plates to grids	160 ma. ea. side	3.1/1.8:1.2 sec.	3 3/4 x 3 1/2 x 2 1/2"	4	9.00	8.10	7.29	6.75

FILAMENT TRANSFORMERS

Last letter in Type No. is case style.

Stock No.	Mfr's Type	Secondary Volts	Amperes	Test Volts	Size (HWD)	Wt. Lbs.	NET EACH			
							1-4	5-24	25-49	50-99
61 G 931	F-1X	2.5CT	3	1500	1 1/2 x 3 1/2 x 1 1/2"	3/4	2.16	1.94	1.75	1.62
61 G 932	F-3X	2.5CT	10	3000	2 1/4 x 3 1/2 x 2 1/4"	1 1/4	3.30	2.97	2.67	2.48
61 G 933	F-5U	2.5CT	10	7500	3 1/2 x 3 1/2 x 2 1/2"	2	4.80	4.32	3.89	3.60
61 G 934	F-6X	2.5CT	6	2500	1 1/2 x 3 1/4 x 2"	1 1/4	3.06	2.75	2.48	2.30
61 G 935	F-7X	5CT	3	1500	1 1/2 x 3 1/4 x 2"	1 1/4	3.42	3.08	2.77	2.57
61 G 936	F-8X	5CT	6	1500	2 1/4 x 3 1/2 x 2 1/4"	1 3/4	3.96	3.56	3.21	2.97
64 G 953	F-13X	6.3	.6	1500	1 3/4 x 2 1/2 x 1 1/2"	1/2	2.04	1.84	1.65	1.53
64 G 954	F-14X	6.3CT	1.2	1500	1 1/2 x 2 1/2 x 1 1/2"	3/4	2.22	2.00	1.80	1.67
64 G 955	F-16X	6.3CT	3	1500	1 1/2 x 3 1/4 x 2"	1 1/4	3.18	2.86	2.58	2.39
64 G 956	F-18A	6.3CT	6	1500	3 1/2 x 2 1/2 x 2 1/2"	2 1/2	5.64	5.08	4.57	4.23
64 G 957	F-21A	6.3CT	10	1500	3 1/2 x 3 1/2 x 2 1/2"	3 1/2	6.96	6.26	5.64	5.22
64 G 958	*F-22A	6.3CT	20	2000	4 3/8 x 4 x 3 1/2"	7	9.90	8.91		

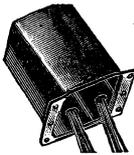
Chicago Transformers



A



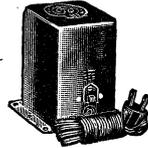
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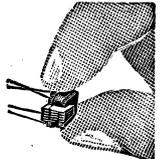
C



D



E



F

Case No.	Depth	Width	Height	Case No.	Depth	Width	Height	Case No.	Depth	Width	Height
12	2 1/4"	2 1/8"	2 1/8"	16	2 1/4"	2 1/8"	2 1/8"	20	3 1/4"	3 1/8"	4 3/8"
13	2 1/4"	2 1/8"	2 1/8"	17	2 1/4"	2 1/8"	2 1/8"	21	3 1/4"	3 1/8"	4 1/8"
14	2 1/4"	2 1/8"	2 1/8"	18	2 1/4"	2 1/8"	2 1/8"	22	3 1/4"	3 1/8"	4 1/8"
15	2 1/2"	2 3/8"	3 3/8"	19	3 1/4"	3"	4 1/4"	24	5 1/2"	4 1/8"	6 1/8"

TRANSFORMERS AND CHOKES

A complete selection of power transformers, filament transformers and filter chokes designed for electronic equipment. All units have high-grade magnet wire coils wound on non-aging silicon-steel cores. All have one-piece, steel cases for electrostatic and magnetic shielding, plus high moisture resistance. Types PSC, PSR, and RS (Fig. B) are semi-sealed

units with steel base covers fitted with phenolic terminal boards and numbered solder lugs. Types PCC, PCR, and RC (Fig. C) are compound-sealed units with fiberboard base covers and 10⁶ color-coded leads. *Have extra filament winding; 6.3 v. at 1 amp. †Has extra filament winding; 5 v. at 2 amps. All units have 117 volt, 50-60 cycle primaries.

POWER TRANSFORMERS FOR CAPACITOR INPUT FILTERS

Stock No.	Mfr's Type	Case No.	1-9 EA.	10-24 EA.	25-49 EA.	Stock No.	Mfr's Type	Case No.	1-9 EA.	10-24 EA.	25-49 EA.	Plate			Rect.		Fil.		Wt., Lbs.
												VCT	Ma	V	A	VCT	A		
64 G 706	PCC-40	16	5.00	4.75	4.50	64 G 707	PSC-40	17	9.67	8.24	7.81	450	40	5	2	6.3	2	3 1/4	2
64 G 614	PCC-55	16	5.38	5.12	4.84	64 G 607	PSC-55	17	9.11	8.66	8.20	540	55	5	2	6.3	2	3 1/4	2
64 G 708	PCC-60	18	6.17	5.87	5.56	64 G 709	PSC-60	19	9.70	9.22	8.73	600	60	5	2	6.3	3	4 1/2	3
64 G 615	PCC-70	18	6.62	6.28	5.96	64 G 608	PSC-70	19	10.29	9.78	9.26	670	70	5	2	6.3	3	4 1/2	3
64 G 616	PCC-85	20	7.64	7.26	6.88	64 G 609	PSC-85	20	10.97	10.42	9.87	660	85	5	2	6.3	3	4 1/2	3
64 G 617	PCC-105	20	8.29	7.88	7.46	64 G 610	PSC-105	20	11.61	11.03	10.46	690	105	5	2	6.3	3.5	6 1/2	3
64 G 618	PCC-120	22	9.32	8.85	8.39	64 G 611	PSC-120	22	12.23	11.62	11.01	750	120	5	3	6.3	4	9 1/2	3
64 G 619	*PCC-150	22	10.67	10.14	9.61	64 G 612	*PSC-150	22	16.17	15.37	14.55	740	150	5	3	6.3	4	11 1/2	3
64 G 620	*PCC-200	22	12.44	11.82	11.19	64 G 613	*PSC-200	22	17.20	16.34	15.48	770	200	5	3	6.3	4.5	12	3
64 G 795	†PCC-250	24	15.32	14.55	13.79	64 G 796	†PSC-250	24	21.46	20.39	19.32	800/160	250	5	6	6.3	7	15	3

POWER TRANSFORMERS FOR CHOKE INPUT FILTERS

Stock No.	Mfr's Type	Case No.	1-9 EA.	10-24 EA.	25-49 EA.	Stock No.	Mfr's Type	Case No.	1-9 EA.	10-24 EA.	25-49 EA.	700	755	800	850	900	1000	1040	1100/740/150	120	200	300	5	2	6.3	3	4	9 1/2	12 1/4	15 1/2	
64 G 637	PCR-55	16	5.59	5.31	5.03	64 G 629	PSR-55	17	9.26	8.80	8.34	700	755	800	850	900	1000	1040	1100/740/150	120	200	300	5	2	6.3 <td>3</td> <td>4</td> <td>9 1/2</td> <td>12 1/4</td> <td>15 1/2</td>	3	4	9 1/2	12 1/4	15 1/2	
64 G 638	PCR-70	18	6.32	6.01	5.69	64 G 630	PSR-70	19	10.14	9.63	9.13	700	755	800	850	900	1000	1040	1100/740/150	120	200	300	5	2	6.3 <td>3</td> <td>4</td> <td>9 1/2</td> <td>12 1/4</td> <td>15 1/2</td>	3	4	9 1/2	12 1/4	15 1/2	
64 G 640	PCR-105	20	7.85	7.46	7.07	64 G 632	PSR-105	21	11.76	11.17	10.58	700	755	800	850	900	1000	1040	1100/740/150	120	200	300	5	2	6.3 <td>3.5</td> <td>6.3</td> <td>4</td> <td>9 1/2</td> <td>12 1/4</td> <td>15 1/2</td>	3.5	6.3	4	9 1/2	12 1/4	15 1/2
64 G 641	PCR-120	22	8.79	8.35	7.91	64 G 633	PSR-120	22	12.49	11.87	11.25	700	755	800	850	900	1000	1040	1100/740/150	120	200	300	5	3	6.3 <td>4</td> <td>9 1/2</td> <td>12 1/4</td> <td>15 1/2</td> <td>17 1/2</td>	4	9 1/2	12 1/4	15 1/2	17 1/2	
64 G 643	*PCR-200	22	11.47	10.90	10.32	64 G 635	*PSR-200	22	18.52	17.60	16.67	700	755	800	850	900	1000	1040	1100/740/150	120	200	300	5	3	6.3 <td>4.5</td> <td>6.3</td> <td>4.5</td> <td>12 1/4</td> <td>15 1/2</td> <td>17 1/2</td>	4.5	6.3	4.5	12 1/4	15 1/2	17 1/2
64 G 644	*PCR-300	24	17.93	17.04	16.14	64 G 636	*PSR-300	24	26.17	24.86	23.55	700	755	800	850	900	1000	1040	1100/740/150	120	200	300	5	6	6.3 <td>5</td> <td>6.3</td> <td>4.5</td> <td>12 1/4</td> <td>15 1/2</td> <td>17 1/2</td>	5	6.3	4.5	12 1/4	15 1/2	17 1/2

FILTER CHOKES

Stock No.	Mfr's Type	Case No.	1-9 EA.	10-24 EA.	25-49 EA.	Stock No.	Mfr's Type	Case No.	1-9 EA.	10-24 EA.	25-49 EA.	Hys.	Ma.	Ohms	Test Volts	Wt., Lbs.
64 G 669	RC-1540	12	2.50	2.37	2.25	64 G 657	RS-1540	12	3.53	3.35	3.17	15	40	475	2500	1 1/2
64 G 670	RC-1055	12	2.91	2.76	2.62	64 G 658	RS-1055	13	3.91	3.72	3.52	10	55	230	2500	1 1/4
64 G 671	RC-1855	12	3.06	2.90	2.72	64 G 659	RS-1855	13	4.12	3.92	3.70	15	55	420	2500	2
64 G 672	RC-1085	14	3.45	3.26	3.10	64 G 660	RS-1085	15	4.12	3.91	3.70	10	85	175	2500	2 1/2
64 G 673	RC-1585	14	3.70	3.52	3.33	64 G 661	RS-1585	15	4.97	4.72	4.47	15	85	285	2500	2 3/4
64 G 674	RC-8105	16	4.11	3.91	3.70	64 G 662	RS-8105	17	5.59	5.31	5.03	8	105	100	2500	3 1/4
64 G 675	RC-12105	16	4.32	4.10	3.89	64 G 663	RS-12105	17	5.59	5.31	5.03	12	105	170	2500	4
64 G 676	RC-8150	18	5.67	5.39	5.10	64 G 664	RS-8150	19	6.47	6.14	5.82	8	150	100	2500	5 1/4
64 G 677	RC-12150	18	5.73	5.45	5.16	64 G 665	RS-12150	19	6.67	6.34	6.01	12	150	150	2500	5 1/2
64 G 678	RC-8200	20	6.67	6.34	6.01	64 G 666	RS-8200	21	7.64	7.26	6.88	8	200	85	2500	7
64 G 679	RC-12200	20	6.76	6.43	6.09	64 G 667	RS-12200	21	8.08	7.68	7.28	12	200	140	2500	7
64 G 680	RC-8300	22	9.35	8.88	8.42	64 G 668	RS-8300	22	11.61	11.03	10.46	8	300	60	3500	12 1/2

FILAMENT TRANSFORMERS

A Hermetically sealed filament transformers. Built to rigid specifications. Meet all MIL-T-27 requirements. All have 115-230 v., 50-60 cycle primaries. 2500 v. insulation.

Stock No.	Mfr's Type	Sec. V.C.T	Amps	Case No.	Wt., Lbs.	1-9 EA.	10-24 EA.
64 G 721	FH-615	6.3	1.5	12	1	7.94	7.55
64 G 722	FH-63	6.3	3	14	2	9.38	8.91
64 G 697	FH-65	6.3	5.5	16	3	10.91	10.36
64 G 695	FH-610	6.3	10	19	5	15.43	14.66

B Semi-sealed, 115-230 v., 50-60 cycle primaries. 2500 v. insulation.

Stock No.	Mfr's Type	Sec. V.C.T	Amps	Case No.	Wt., Lbs.	1-9 EA.	10-24 EA.
64 G 686	F-54	5	4	15	2 1/4	6.38	6.06
64 G 688	F-58	5	10	17	3 1/2	10.89	10.33
64 G 692	F-530	5	30	22	10 1/2	16.61	15.78
64 G 723	F-615	6.3	1.5	12	1	5.14	4.89
64 G 724	F-63	6.3	3	14	2	6.17	5.87
64 G 694	F-65	6.3	5.5	17	3	7.50	7.12
64 G 696	F-610	6.3	10	19	5	10.29	9.78
64 G 698	F-104	10.0	4	17	3 1/4	8.23	7.82

ISOLATION TRANSFORMERS

E For faster, safer, easier servicing of AC-DC equipment. Chassis ground is isolated from line ground, eliminating shock hazard. Primary slide switch selects high, medium and low secondary voltages. 8¹/₂ line cord, female output receptacle. Primary volts, 105/115/125; secondary volts, 125/115/105. For 50-60 cycle AC operation.

Stock No.	Mfr's Type	Watts Cont.	Case No.	Wt., Lbs.	1-9 EA.	10-24 EA.
64 G 726	IS-50	50	21	5	8.08	7.68
64 G 727	IS-100	100	22	5 1/2	11.61	11.03
64 G 728	IS-150	150	24	13 1/2	13.82	13.12
64 G 729	IS-250	250	24	18 1/4	16.32	15.50

OUTPUT TRANSFORMERS

D Full-frequency-range outputs. Typical response, ±0.5 db, 30-20,000 cps. *Indicates extra 150/4 ohm secondary. All except BO-12 and BO-13 have split, balanced secondary with CT.

Stock No.	Mfr's Type	Pri. Ohms	Sec. Ohms	Watts	Case No.	Wt., Lbs.	1-9 EA.	10-24 EA.
62 G 522	BO-1	15K	600/150	.022	14	2 1/4	9.97	9.47
64 G 724	BO-2	20K	600/150	1	16	3	13.23	12.57
64 G 738	BO-9*	5K/3K	600/16/8	15	20	6	16.90	16.06
64 G 747	BO-12	10K	600/16/8	10	22	9	17.49	16.62
64 G 748	BO-13	10K	16/8/4	20	21	7	17.49	16.62

Type BO-14 "Super-Range" 100-Watt Output Transformer. Designed for use with Tungsol 6550's in pentode or triode amplifier circuits. 8 and 16 ohm plus 70⁰ v. outputs. Similar to Fig. C. Size: 8x5 1/2 x 6¹/₂. Shpg. wt., 21 lbs.

64 GU 775. 1 to 9, NET EACH.....38.95
10 to 24, NET EACH.....37.00

PA OUTPUT TRANSFORMERS

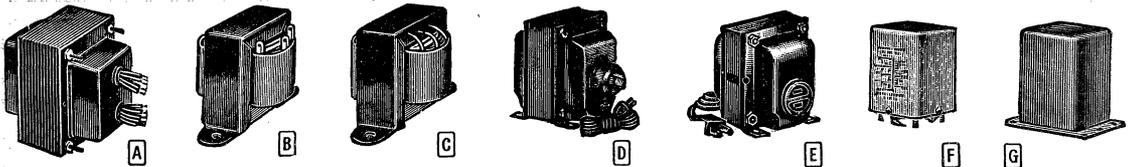
C Type PCO-150, 15-watt output transformer for public address amplifiers. Primary impedance, 10,000 ohms CT; secondary, 600/150/16/8/4 ohms, plus tertiary winding for 10% feedback. Primary rated 200 ma max. DC. Has 10⁶ color-coded leads. Case No. 19. 5 lbs.
64 G 395. 1 to 9, NET EACH.....7.35
10 to 24, NET EACH.....6.99

TRANSISTOR TRANSFORMERS

F Ultra-miniature audio transformers for transistor applications below 1 mw level. Wound on nylon bobbins with nickel-steel laminations. Actual wt., 1/10 oz. 3/8x3/8x3/8; except *1/4x3/8x3/8. 2 oz.

Stock No.	Mfr's Type	Application	Impedance		DC Resistance		1-9 EA.	10-24 EA.
			Pri.	Sec.	Pri.	Sec.		
64 G 237	*UM-110	Interstage Output	20K	1K	1675	285	5.59	5.31
64 G 238	UM-11							

knight and Chicago Transformers



KNIGHT QUALITY TRANSFORMERS

An excellent selection of economy-priced, high-quality Knight transformers. All are carefully assembled of quality components and fully meet Allied's rigid standards for performance and dependability of

STANDARD OUTPUTS

C For coupling plate of output tube to the speaker voice coil. Designed for class A amplifiers. Secondary impedance, 3.2 ohms. Shpg. wt., ¼ lb.

Stock No.	Primary		Audio Watts	Size	NET EACH			
	Imp.	Ma.			1-9	10-24	25-49	50-99
62 G 064	5,000	40	3	1½x6x1½x¾x¾"	.93	.85	.77	.71
62 G 063	2,500	50	3	1½x6x1½x¾x¾"	.93	.85	.77	.71
62 G 093	8,000	20	3	1½x6x1½x¾x¾"	.93	.85	.77	.71
62 G 065	2,000	50	5	1½x6x2½x1½x¾"	1.00	.91	.83	.76

UNIVERSAL OUTPUTS

B CT primary. 6 taps on secondary. Match single or push-pull tubes to speaker voice coil.

Stock No.	Impedances	Watts	Mtg. Ctrs.	Wt. Lbs.	NET EACH			
					1-9	10-24	25-49	50-99
62 G 023	Pri., 4000-	4	2"	1	1.30	1.20	1.08	1.00
62 G 021	14,000 ohms.	8	2½"	1	1.50	1.38	1.24	1.15
62 G 022	Sec., VC	18	2½"	1¼	2.14	1.96	1.77	1.64

FILTER CHOKES

C Excellent for receivers, low power transmitters, etc.

Stock No.	Hys.	Ma.	Ohms	Mtg. Ctrs.	Lbs.	NET EACH			
						1-9	10-24	25-49	50-99
62 G 135	5.5	50	330	2"	1 ½	1.03	.94	.85	.79
62 G 136	8.5	50	400	2½"	1 ½	1.11	1.02	.92	.85
62 G 137	16	50	550	2½"	1 ½	1.44	1.32	1.18	1.10
62 G 138	15	75	400	3½"	2	1.94	1.78	1.61	1.49
62 G 139	10.5	110	220	3½"	2½	2.47	2.26	2.03	1.89

REPLACEMENT POWER TRANSFORMERS

A 62 G 008 is Fig. C; all others Fig. A. Recommended for radio set replacement, kit building, etc. Fully shielded; heavy duty 5" flexible coded leads. All plate and Fil. 1 windings center-tapped. All have 110-120 volt, 50-60 cycle primaries.

Stock No.	Plate		Rect.		Fil. 1		Mtg. Ctrs.	Wt. Lbs.	NET EACH			
	V	Ma	V	A	V	A			1-9	10-24	25-49	50-99
62 G 008	250	25	...	...	6.3	1.0	2½"	1	1.81	1.66	1.50	1.39
62 G 034	480	40	5	2	6.3	2	2x2½"	3	3.43	3.15	2.84	2.62
62 G 041	650	40	5	2	6.3	2	2x2½"	3	3.83	3.52	3.18	2.94
62 G 042	650	70	5	3	6.3	3.5	2x2½"	5	4.65	4.27	3.85	3.56
62 G 043	700	90	5	3	6.3	3.5	2½x2½"	5½	4.78	4.39	3.96	3.66
62 G 044	700	120	5	3	6.3	4.7	2½x3½"	7	5.56	5.07	4.57	4.22
62 G 045	750	150	5	3	6.3	5	2½x3½"	7½	5.56	5.07	4.57	4.22
62 G 033	800	200	5	5	6.3	5	3x3½"	10	7.65	7.03	6.34	5.86

AUDIO TRANSFORMERS

C *Single or double-button. Shpg. wt., 1 lb.

Stock No.	Description	Mtg. Ctrs.	NET EACH			
			1-9	10-24	25-49	50-99
62 G 025	*Carbon mike to grid	2½"	1.58	1.45	1.31	1.21
62 G 062	1:3 Single plate to single grid	2"	1.25	1.15	1.04	.96

FILAMENT TRANSFORMERS

C Primaries, 105-125 volts, 50-60 cycle AC.

Stock No.	V	Amps	Size	Wt. Lbs.	NET EACH			
					1-9	10-24	25-49	50-99
62 G 028	5	6	2¼x3¼x1½x1½"	2¼	2.41	2.22	2.00	1.85
62 G 030	6.3	1	1½x2½x1½x1½"	1½	1.45	1.33	1.20	1.11
62 G 031	6.3	3	2 x3¼x1½x1½"	1¼	1.99	1.83	1.65	1.52

CHICAGO TRANSFORMERS

H Primaries tapped for 105, 115 or 125v., 50-60 cycle AC. Insulation, 2500 v. except F8, 5000 v. All secondaries have CT except F8.

Stock No.	Mfr's Type	Fil. 1	Fil. 2	Fil. 3	Case No.	Wt. Lbs.	NET EACH			
							1-9	10-24	25-49	50-99
63 G 154	F1	*5V@2A	6.3V@2.5A	.....	15	2½	9.70	9.22	8.73	8.08
63 G 155	F2	*5V@2A	12.6V@1.25A	.....	15	2½	9.70	9.22	8.73	8.08
63 G 156	F3	*5V@3A	6.3V@3A	.....	17	3½	10.14	9.63	9.13	8.46
63 G 157	F4	*5V@3A	6.3V@3A	6.3V@3A	18	4¼	11.61	11.03	10.46	9.68
63 G 158	F5	*5V@3A	6.3V@1A	.....	18	4¼	11.76	11.17	10.58	9.80
63 G 159	F6	6.3V@3A	6.3V@3A	.....	17	3½	10.14	9.63	9.13	8.46
63 G 160	F7	6.3V@6A	6.3V@6A	.....	21	6½	12.05	11.46	10.85	10.04
63 G 161	F8	5V@3A	5V@3A	5V@3A	21	7	12.64	12.01	11.38	10.53

PLATE TRANSFORMERS

J Primaries for 115-230 v., 50-60 cycle AC.

Stock No.	Type	VCT	Ma	Size	Lbs.	NET EACH			
						1-9	10-24	25-49	50-99
63 G 162	P45	1350/1150	250	5½x4¼x4¼x6"	12	14.99	14.25	13.49	12.49
63 G 163	P67	1800/1470	250	5½x4¼x4¼x6"	13½	16.46	15.64	14.82	13.72

operation. Recommended for replacement applications and installation in new equipment. A fine low-cost line of transformers for use by radio-TV servicemen, Amateurs, experimenters, students and industrials.

HIGH-FIDELITY OUTPUT TRANSFORMERS

Designed for ultra-linear Williamson-type amplifiers. All flat from 60-90,000 cps *except 10-100,000 cps. Rated watts from 20-30,000 cps. All have 4, 8 and 16 ohm outputs. †Max. allowable DC current in each half of primary. ‡End bell construction for upright mounting (similar to Fig. D).

Stock No.	Fig.	Watts	P-P Imp.	†Ma.	Size	Wt. Lbs.	NET EACH			
							1-9	10-24	25-49	50-99
62 G 082	F	12	8000	60	2½x3¼x3¾"	5	7.60	6.99	6.29	5.82
62 G 018	F	18	8000	65	3x3¼x3¾"	3½	7.94	7.29	6.56	6.07
62 G 083	G	24	6600	75	3¾x3¼x3¾"	6½	12.40	11.38	10.26	9.49
62 G 019	F	30*	6600	100	4¼x3¾x4¼"	8½	13.26	12.18	10.97	10.15
62 G 024	‡	12	8000	60	2½x2½x3¾"	3½	5.85	5.37	4.84	4.47
62 G 058	‡	18	8000	65	2½x3¼x2½"	2¼	4.00	3.67	3.31	3.06
62 G 054	‡	24	6600	75	3¾x3¾x4¼"	6	10.47	9.61	8.66	8.01
62 G 059	‡	30*	6600	100	4¼x3¾x4¼"	7	11.33	10.41	9.38	8.67

70.7 VOLT LINE-TO-VOICE COIL OUTPUTS

B Secondaries: 4, 8, 16 ohms except *3.2-4, 6-8.

Stock No.	Watt Taps	Watts	Mtg. Ctrs.	Wt. Lbs.	NET EACH			
					1-9	10-24	25-49	50-99
62 G 081	5, 2.5, 1.25, .62, .31	*5 Max.	2"	¾	1.50	1.38	1.24	1.15
62 G 077	10, 5, 2.5, 1.25, .62	10 Max.	2½"	1	1.67	1.53	1.38	1.27
62 G 078	18, 9, 4.5, 2.25, 1.12, .56	18 Max.	2¾"	1¼	1.98	1.81	1.63	1.51
62 G 079	24, 12, 6, 3, 1.5, .75	24 Max.	3½"	1¾	3.01	2.76	2.49	2.30

230-TO-115 VOLT AUTOTRANSFORMERS

E Well-built step-down transformers for reducing 220-250 volts, 50-60 cycle AC to 110-125 volts. For operating tape recorders, radios, amplifiers, household appliances, etc. Shielded construction. Smooth black enamel finish. With 8-ft. cord and plug. Female outlet on case.

Stock No.	Watts	Size	Lbs.	NET EACH			
				1-9	10-24	25-49	50-99
62 G 510	80	3½x2½x6x3"	4	4.95	4.54	4.09	3.79
62 G 511	150	3¾x3¾x6x3½"	6	6.81	6.25	5.64	5.21
62 G 512	250	4¾x3¾x6x4"	9¼	8.94	8.20	7.39	6.84
62 G 513	500	4¾x3¾x6x4½"	11	11.42	10.48	9.45	8.73

VARIABLE VOLTAGE AND ISOLATION TRANSFORMERS

D Variable Voltage and Isolation Transformer. Rated 150 watts. Delivers 115 v. from 90-250 v., 50-60 cycle AC input. With 6-ft. cord and plug. Mtg. centers, 3x3¼". Shpg. wt., 9 lbs.

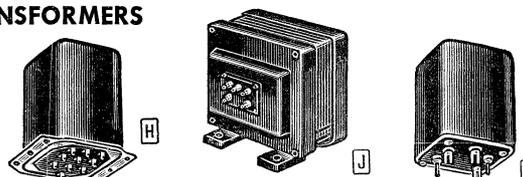
62 G 080, 1-9, EACH, 12.40 10-24, NET EACH, 11.38 25-49, EACH, 10.26 50-99, NET EACH, 9.49

D Variable Voltage Transformer. 150 watts. Tests for possible failure in radio by voltage overload method. 7-tap switch calibrated in output volts, 90-150 (10-volt steps). For 115 v., 50-60 cycle AC. 6-ft. cord, plug, output receptacle. Mtg. ctrs., 2½x3¾". Wt., 6½ lbs.

62 G 085, 1-9, EACH, 10.73 10-24, NET EACH, 9.85 25-49, EACH, 8.88 50-99, NET EACH, 8.21

E Isolation Transformer. Reduces shock hazard by isolating test units, or equipment under test, from line. For 115 volts, 50-60 cycle AC. With 6-ft. cord, plug and output receptacle.

Stock No.	Watts	Size H.W.D.	Wt. Lbs.	NET EACH			
				1-9	10-24	25-49	50-99
62 G 086	100	4¼x3¾x3¾"	7	10.47	9.61	8.66	8.01
62 G 087	250	4¾x3¾x6x4½"	12½	16.84	15.46	13.93	12.89

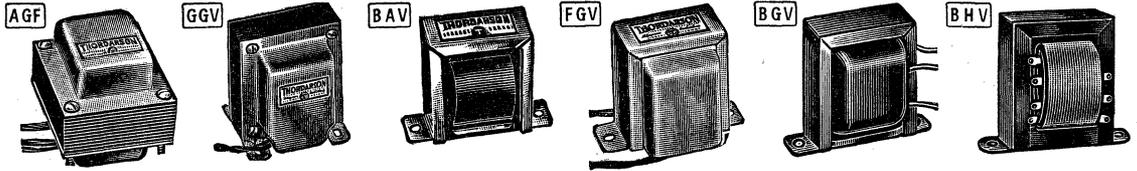


AUDIO TRANSFORMERS

K Size of each transformer, 2x1½x1½". Shpg. wt., 10 oz.

Stock No.	Mfr's Type	Description	NET EACH			
			1-9	10-24	25-49	50-99
63 G 187	WF20	Pri.:50,125,150,200,250,333,500/600 Sec.:50,000	11.47	10.90	10.30	9.55
63 G 189	WF22	Pri.:50,125,150,200,250,333,500/600 Sec.:80,000 overall in two sections.	11.47	10.90	10.30	9.55
63 G 190	WF28	Pri.:15,000. Sec. Imp.:80,000 over 1.	10.70	10.15	9.63	8.92
63 G 192	WF30	Pri.:50,125,150,200,250,333,500/600 Sec.:50,125,150,200,250,333,500/600	11.47	10.90	10.30	9.55

Thordarson Transformers



UNIVERSAL-MOUNT POWER TRANSFORMERS

AGF High quality, universal-mount power transformers. Easy to install—adjustable brackets permit flush, vertical or horizontal mounting. EIA color-coded. 117 volt, 50-60 cycle primaries. All transformers listed below have center-tapped Fil. 1 windings.

Stock No.	Mfr's Type	Plate		Rect.		Fil. 1		Mtg. Ctrs.	Wt. Lbs.	NET EACH			
		VCT	Ma	V	A	V	A			1-9	10-24	25-49	50-Up
63 G 700	22R00	500	40	5	2	6.3	2.0	2x2½"	2½	4.88	4.39	3.95	3.74
63 G 701	22R01	550	50	5	2	6.3	2.5	2x2½"	3	5.88	5.29	4.76	4.50
63 G 702	22R02	600	70	5	2	6.3	3.0	2x2½"	3½	7.03	6.32	5.68	5.38
63 G 703	22R04	600	90	5	2	6.3	3.5	2½x2½"	3¾	6.85	6.16	5.55	5.24
63 G 704	22R05	600	120	5	3	6.3	5.0	2½x3¾"	5½	7.50	6.74	6.07	5.70
63 G 705	22R06	650	150	5	3	6.3	5.0	3x3¾"	6¾	8.76	7.89	7.10	6.74
63 G 706	22R07	700	200	5	3	6.3	6.0	3x3¾"	8½	11.44	10.29	9.26	8.75

UPRIGHT-MOUNT POWER TRANSFORMERS

GGV Have 117 v., 50-60 cycle primaries. Filament 1 windings center-tapped. EIA color-coded leads; ends stripped and tinned.

*Additional 6.3 volt, 3-amp center-tapped winding. †Fig. BGV; ‡Not center-tapped.

Stock No.	Mfr's Type	Plate		Rect.		Fil. 1		Mtg. Ctrs.	Wt. Lbs.	NET EACH			
		VCT	Ma	V	A	V	A			1-9	10-24	25-49	50-Up
63 G 711	22R30	550	50	5	2	6.3	2.5	2x2½"	2½	6.12	5.51	4.95	4.68
63 G 712	22R31	720	80	5	2	6.3	2.5	2x2½"	4	8.67	7.80	7.02	6.64
63 G 713	22R32*	700	110	5	2	6.3	3.0	2½x2½"	6¾	10.76	9.68	8.71	8.23
63 G 714	22R33	750	160	5	3	6.3	3.0	2½x2½"	7	11.44	10.29	9.26	8.75
63 G 715	22R34	770	225	5	3	6.3	5.0	3x3¾"	11¾	13.05	11.75	10.57	9.99
63 G 716	22R35	800	340	5	6	6.3	7.0	3x3¾"	13	15.99	14.40	12.96	12.24
63 G 717	22R36	1200	200	5	3	6.3	5.0	3x3¾"	9½	11.76	10.58	9.53	9.10
63 G 737	26R60†	150‡	25	...	...	6.3	.5	2"	¾	2.62	2.35	2.12	2.00

"ECONOMY SERIES" POWER TRANSFORMERS

For general replacement. Types ending with U are for upright mounting (Fig. GGV). Others have brackets to permit flush, vertical or horizontal mtg. (Fig. AGF). Have 110-120 volt, 50-60 cycle primaries. Fil. 1 windings are center-tapped. EIA color-coded.

Stock No.	Mfr's Type	Plate		Rect.		Fil. 1		Mtg. Ctrs.	Wt. Lbs.	NET EACH			
		VCT	Ma	V	A	V	A			1-9	10-24	25-49	50-Up
63 G 319	24R00	480	40	5	2	6.3	2.0	2x2½"	2	4.41	3.97	3.57	3.38
63 G 320	24R00-U	480	40	5	2	6.3	2.0	2x1¾"	2	4.41	3.97	3.57	3.38
63 G 321	24R01	650	40	5	2	6.3	2.0	2x2½"	2½	4.50	4.05	3.65	3.44
63 G 322	24R01-U	650	40	5	2	6.3	2.0	2x1½"	2½	4.50	4.05	3.65	3.44
63 G 323	24R02	700	70	5	2	6.3	2.5	2½x2½"	4	5.62	5.06	4.55	4.30
63 G 324	24R04	700	90	5	3	6.3	3.5	2½x2½"	4½	6.53	5.87	5.28	5.00
63 G 325	24R04-U	700	90	5	3	6.3	3.5	2½x2½"	4½	6.53	5.87	5.28	5.00
63 G 326	24R05	700	120	5	3	6.3	4.7	2½x3¾"	5½	6.91	6.21	5.60	5.29
63 G 327	24R05-U	700	120½	5	3	6.3	4.7	2½x2½"	5¾	6.91	6.21	5.60	5.29
63 G 328	24R06	750	150	5	3	6.3	4.7	2½x3¾"	6½	8.17	7.35	6.62	6.25
63 G 329	24R06-U	750	150	5	3	6.3	4.7	2½x3¾"	6½	8.17	7.35	6.62	6.25
63 G 330	24R07	800	200	5	3	6.3	5.0	3x3¾"	9½	9.32	8.39	7.55	7.13
63 G 331	24R07-U	800	200	5	3	6.3	5.0	3x3¾"	9½	9.32	8.39	7.55	7.13

MODULATION TRANSFORMERS

Stock No.	Mfr's Type	Fig.	Watts	Pri. CT	Secondary Ohms		Mtg. Ctrs.	Wt. Lbs.	NET EACH			
					1-9	10-24			25-49	50-Up		
63 G 801	21M52	FGV	10	10K	3K, 3.75K, 4.5K	2½"	1½	4.50	4.05	3.65	3.44	
63 G 815	21M53	BAH	10	10K	3K, 3.75K, 4.5K	2½"	1½	3.91	3.52	3.16	3.00	
63 G 813	21M68	BAV	10	10K	4K, 5K, 7.5K	2½"	1½	3.59	3.22	2.90	2.74	
63 G 812	21M67	GGV	25	10K	10K, 12K	2½"	3¾	5.41	4.87	4.38	4.14	
63 G 802	21M54	GGV	25	6.6K	3K, 5K, 6.5K, 8K	2½"	3¾	6.53	5.87	5.28	5.00	

GGV Multi-Match Type. Have taps to permit proper impedance match between modulator output tubes and RF amplifier load. Split secondary.

Stock No.	Mfr's Type	Watts	Prim. Ma. Each Side	Sec. Ma. Ser. Par.	Resis. Ohms	Test Volts	Mtg. Ctrs.	Wt. Lbs.	NET EACH			
									1-9	10-24	25-49	50-Up
63 G 812	21M61A	60	125	125	125	2½x2½"	2½"	6½	14.38	12.94	11.65	11.00
63 G 813	21M62A	125	210	160	320	3½x3¾"	1½"	15	18.29	16.45	14.81	14.00

FILTERING AND COUPLING CHOKES

20C58 is speech-frequency tuned audio choke for impedance coupling. 20C50 is plate impedance coupling choke. Others for both input and smoothing use. *Inductance at rated ma.

Stock No.	Mfr's Type	Fig.	*Hys.	Rated Ma	Resis. Ohms	Test Volts	Mtg. Ctrs.	Wt. Lbs.	NET EACH			
									1-9	10-24	25-49	50-Up
63 G 725	20C50	BAH	350	5	5500	2500	2½"	1½	3.50	3.14	2.83	2.68
63 G 726	20C51	BAH	35	15	1850	2500	2"	¾	1.38	1.24	1.12	1.06
63 G 727	20C52	BAH	8	40	4500	2500	2"	¾	1.23	1.11	.99	.94
63 G 728	20C53	BAH	12	80	375	2500	2½"	1½	2.06	1.85	1.67	1.58
63 G 729	20C54	GGV	8	150	145	2700	1½x2"	3	4.08	3.67	3.30	3.13
63 G 730	20C55	GGV	6	200	75	2700	2x2½"	3¾	5.09	4.58	4.11	3.89
63 G 731	20C56	GGV	8	250	60	3500	3x2½"	6¾	8.26	7.44	6.69	6.33
63 G 733	20C58	BAH	¾	10	30	1100	2½"	¾	2.35	2.12	1.90	1.80
63 G 738	26C40	BAH	1.5	10	95	2500	1½"	¾	1.29	1.17	1.05	1.00

CONTROL TRANSFORMERS

Fig. BHV, *except not illustrated. Two-section secondary windings permit series or parallel operation. Primary windings operate from either 115 volts or 230 volts. 50-60 cycle AC.

Stock No.	Mfr's Type	Secondary		Size	Mtg. Ctr.	Wt. Lbs.	NET EACH			
		Parallel	Series				1-9	10-24	25-49	50-Up
63 G 179	23V50	6V @ 2A	12V @ 1A	2½x2½x2"	2½"	¾	3.53	3.18	2.86	2.70
63 G 180	23V51	6V @ 4A	12V @ 2A	3½x3½x2½"	2"	1½	5.29	4.76	4.29	4.05
63 G 181	23V52	12V @ 4A	24V @ 2A	3½x3½x2½"	3½"	2	7.05	6.35	5.55	5.40
63 G 182	23V53*	12V @ 8A	24V @ 4A	3½x3½x2½"	2½x2½"	3½"	9.41	8.46	7.62	7.20
63 G 183	23V54*	12V @ 16A	24V @ 8A	4½x3½x3½"	2½x2½"	8	12.94	11.64	10.48	9.90

UNIVERSAL TV POWER TRANSFORMER

AGF Type 26R00. Extremely versatile, high-quality replacement unit for power transformers in over 2000 popular television sets. Ideal stock-item for TV service-shops—helps keep down inventory. Multi-tapped 295-ma secondary. Primary: 117 volts, 50-60 cycles AC. Tapped high-voltage secondary: 840 volts center-tapped, 720 volts center-tapped, 600 volts center-tapped. Filament windings: One 5 v. @ 3 amps, one 5 v. @ 6 amps, and four 6.3-volt @ 3 amperes. Dual electrostatic shielding. 3½x4½x4½". Shpg. wt., 11 lbs.

63 G 820, 1 to 9, NET EACH 17.96
10 to 24, EACH 16.17
25 to 49, EACH 14.55
50-Up, EACH 13.75

PLATE TRANSFORMERS

GGV Primaries for 115 volts, 50-60 cycles. Excellent for use in transmitter, RF amplifier and modulator power supplies. All units listed are static shielded.

Type 21P87. Has tapped primary to provide choice of two output voltages. Delivers either 1670 volts CT or 1312 volts CT at 220 ma. depending upon primary tap used. Secondary, 835-656-0-656-835 volts @ 220 ma. Mounting centers, 3¾x3". Overall size: 4½x3¾x4½". Shpg. wt., 10 lbs.

63 G 657, 1 to 9, NET EACH 12.73
10 to 24, EACH 11.45
25 to 49, EACH 10.31
50-Up, EACH 9.74

Type 21P89. Secondary, 550-0-550 volts @ 175 ma. Mounting centers, 3x2½". Size, 3¾x3¼x4½". Shpg. wt., 6½ lbs.

63 G 658, 1 to 9, NET EACH 9.82
10 to 24, EACH 8.84
25 to 49, EACH 7.95
50-Up, EACH 7.51

Type 21P93. For two full-wave rectifier systems, or one rectifier at combined current output. Secondary, 500-0-500 volts @ 125 ma. or 1075-0-1075 @ 95 ma. Mtg. centers, 3¾x3". Size, 4½x3¾x4½". Shpg. wt., 10 lbs.

63 G 660, 1 to 9, NET EACH 19.58
10 to 24, EACH 17.62
25 to 49, EACH 15.86
50-Up, EACH 14.98

DUAL TONE CONTROL COMPONENTS

Type 20C74. Reactor. For tone compensating systems to boost or attenuate bass or treble independently. Not illustrated. Use with R1068X listed below. Hum-bucking. Inductance, 22 hys. DC resistance, 220 ohms. 2x1½" dia. Shpg. wt., 12 oz.

63 G 734, 1 to 9, NET EACH 7.94
10 to 24, EACH 7.14
25 to 49, EACH 6.43
50-Up, EACH 6.07

Type R1068X. Dual Control. Use with reactor above. Size, 1½" dia. x 1¼" overall length. Shaft, ¾" long. With hardware and diagram. Two required for complete bass-treble system. Shpg. wt., 8 oz.

63 G 165, 1 to 9, NET EACH 4.12
10 to 24, EACH 3.70
25 to 49, EACH 3.33
50-Up, EACH 3.15

TUBE-TO-LINE TRANSFORMERS

Low-level tube-to-line transformers for a wide variety of applications. Both units listed below are rated at 8 watts. Primary may be used with single or push-pull plates. Frequency response, 60-15,000 cps.

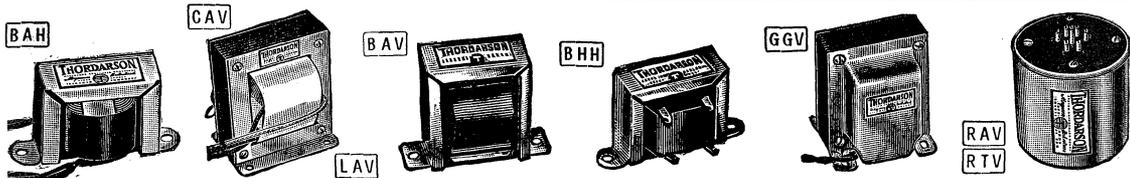
GGV Type 22S90. Tube-to-line audio output transformer. Primary, 20,000 ohms center-tapped @ 25 ma. Secondary, 125, 200, 500, 600 ohms. Mounting center, 2½". Overall size, 2½x2½x1½". Shpg. wt., 1 lb.

63 G 740, 1 to 9, NET EACH 3.76
10 to 24, EACH 3.39
25 to 49, EACH 3.05
50-Up, EACH 2.88

BAH Type 22S91. Tube-to-line audio output transformer. Primary, 20,000 ohms center-tapped @ 25 ma. Secondary, 125, 200, 500, 600 ohms. Mounting center, 2½". Overall size, 2x3½x2". Shpg. wt., 1 lb.

63 G 611, 1 to 9, NET EACH 3.23
10 to 24, EACH 2.91
25 to 49, EACH 2.62
50-Up, EACH 2.48

Thordarson Transformers



TRANSISTOR TRANSFORMERS

BAH High-quality transistor transformers designed for input, bridging, interstage and output applications. These transformers need not necessarily be used at their stated impedance—they may be used efficiently at any practical impedance, provided that the ratio of the windings is maintained. All leads are EIA color-coded. *Figure BAH 300 mw, 1 1/2" mounting centers; all other types, 150 mw (not illus.), have mtg. tabs on 1 1/2" centers. Applications: A—input; B—bridging; D—driver; IS—interstage; O—output; 2 oz.

Stock No.	Mfr's Type	Turns Ratio	Impedance		Application
			Winding 1	Winding 2	
63 G 228	*TR-1	1.00:1	500 CT	500 CT	B, D, IS
63 G 229	*TR-2	1.23:1	5000 CT	7500 CT	B, D, IS
63 G 230	*TR-3	1.41:1	5000 CT	10000 CT	D, IS
63 G 232	*TR-5	1.81:1	490 CT	150 CT	D, O
63 G 234	*TR-7	2.24:1	10000	2000 CT	D, IS
63 G 237	*TR-8	2.41:1	48 CT	150 CT	A, IS
63 G 239	*TR-10	3.00:1	5000 CT	4500 A	A, IS
63 G 239	*TR-12	3.16:1	100 CT	10 CT	D, O
63 G 240	*TR-13	4.00:1	5000 CT	8000 A	A, IS
63 G 241	*TR-14	4.08:1	20000	1200 A	A, IS

1-9, EA.....	3.26	10-24, EA.....	2.94		
25-49, EA.....	2.64	50-Up, EA.....	2.50		
63 G 244	*TR-17	5.00:1	20000	800 CT	A, D, IS
63 G 246	*TR-19	6.04:1	400 CT	11	O
63 G 248	*TR-21	6.33:1	160 CT	8 or 4	O
63 G 249	*TR-22	7.07:1	400 CT	8 or 4	O
63 G 257	*TR-23	7.07:1	10000	200 CT	D, O
63 G 258	*TR-24	8.17:1	100000	1500 CT	A, IS
63 G 259	*TR-25	8.66:1	15000	200 CT	IS, O
63 G 260	*TR-26	10.0:1	50000	500 CT	A, D, O
63 G 261	*TR-27	12.5:1	500 CT	3.2	O
63 G 262	*TR-28	14.1:1	200000	1000	A
63 G 271	*TR-36	50.0:1	500000	200 CT	A

1-9, EA..... 3.26 10-24, EA..... 2.94
25-49, EA..... 2.64 50-Up, EA..... 2.50
Miniature Transistor Transformers. (Not illus.) For circuitry with limited space. Weight 1/10 oz. 1/2"x2 1/2"x3/8". Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Turns Ratio	Impedance		Application
			Winding 1	Winding 2	
63 G 350	*TR-37	1:1	500 CT	500 CT	B, D, IS
63 G 351	*TR-39	1.24:1	4000	2600 CT	D, IS
63 G 352	*TR-40	2.23:1	10000	2000 CT	D, IS
63 G 353	*TR-41	3.16:1	500	50	D, O
63 G 354	*TR-42	3.16:1	20000	2000 CT	A, IS
63 G 355	*TR-43	3.53:1	125 CT	10	O
63 G 356	*TR-44	4.07:1	20000	1200	A, IS
63 G 357	*TR-45	4.46:1	1000	50	D, O
63 G 358	*TR-46	4.47:1	200 CT	10	O
63 G 359	*TR-47	5.46:1	800 CT	10	O
63 G 360	*TR-48	5.73:1	20000	600	A, IS
63 G 361	*TR-49	7.06:1	500 CT	10	O
63 G 362	*TR-50	7.9:1	200 CT	3.2	O
63 G 363	*TR-51	9.65:1	300 CT	3.2	O
63 G 364	*TR-52	11.8:1	7000	50	D, O
63 G 372	*TR-53	12.5:1	500 CT	3.2	O

1-9, EA..... 4.08 10-24, EA..... 3.68
25-49, EA..... 3.31 50-Up, EA..... 3.13

TRANSISTOR POWER OUTPUTS

For auto radios, audio amplifiers, etc. *For parallel 3.2 and 8 ohm voice coils. Wt., 1 lb.

Stock No.	Mfr's Type	Fig.	Impedance		Size
			Pri.	Sec.	
63 G 373	*BAH	32 CT	1.6/4	2x35/16x1 1/2"	
63 G 374	*BAH	32 CT	3.2/8/16	2x35/16x1 1/2"	
63 G 375	*BAH	48 CT	3.2/8/16	2x25/16x2 1/2"	
63 G 376	*BAH	100 CT	3.2/8/16	2x16x2 1/2"	

1-9, EA..... 3.26 10-24, EA..... 2.94
25-49, EA..... 2.64 50-Up, EA..... 2.50

DRIVER TRANSISTOR TRANSFORMER

For driving power transistors—Sylvania: 2N68, 2N95, 2N141; CBS: 2N255, 2N256. *Power output. Shpg. wt., 1/2 lb.

63 G 814	*TR-61	BAH	48 CT	3.2/8/16	1 1/2"x2 1/2"x1 1/2"
63 G 377	*TR-64	BAH	100	100 CT	1 1/2"x2 1/2"x1 1/2"
63 G 378	*TR-65	BAH	100	200 CT	1 1/2"x2 1/2"x1 1/2"
63 G 379	*TR-66	BAH	500 CT	200 CT	1 1/2"x2 1/2"x1 1/2"

1-9, EA..... 1.88 10-24, EA..... 1.69
25-49, EA..... 1.52 50-Up, EA..... 1.44

HI-FI TRANSISTOR TRANSFORMER

Model TR-67. (Not illus.) Encased, wide-range output transformer. Response: 1/2 db from 20-20,000 cps. Imp. (ohms): Pri., 125CT; Sec., 8. Model MA100. Power: 1.5 watts. Mtg. ctrs., 1 1/2", 1 1/2"x1 1/2", 4.9". Shpg. wt., 1 lb.
63 G 380 1-9, EA..... 1.91 10-24, EA..... 1.69
25-49, EA..... 1.38 50-Up, EA..... 1.36

OUTPUT TRANSFORMERS

A wide selection of high-quality audio output transformers for replacement purposes as well as new equipment use. Listing includes types for single-ended outputs and for push-pull amplifiers in a variety of impedances and wattage ratings. Av. shpg. wt., 2 1/2 lbs.

Stock No.	Type	Fig.	Primary	Secondary	Watts	Ctrs.	1-9,	10-24,	25-49,	50-Up,
							EACH	EACH	EACH	EACH
63 G 775	22545	BAH	1500-3000	3.2-4	5	2"	2.44	2.20	1.98	1.87
63 G 776	22546	BAH	2000-3000	3.2-4	5	2"	2.76	2.49	2.24	2.11
63 G 777	22547	BAH	6000-7000 CT	3.2-4	5	2"	2.62	2.35	2.21	2.00
63 G 778	22548	BAH	12,000-16,000 CT	3.2-4	5	2"	1.94	1.74	1.57	1.49
63 G 779	22556	BAH	8000/10,000 CT	3.2-4, 6-8	10	2 1/2"	3.26	2.94	2.64	2.50
63 G 780	22558	BAH	5,000/7,000 CT	3.2-4, 6-8	8	2 1/2"	2.20	1.98	1.79	1.69
63 G 781	22560	BAH	2500/4000 CT	3.2-4, 6-8	10	2 1/2"	3.09	2.77	2.50	2.36
63 G 782	22562	BHH	Univ. Plate	0.1-30	8		3.20	2.88	2.60	2.45
63 G 783	22564	GGV	10,000 CT	3.2-4, 6-8, 15, 250, 500	25	1 1/2"x2"	5.88	5.29	4.76	4.50
63 G 784	22566	GGV	8000 CT	15, 250, 500	25	1 1/2"x2"	6.14	5.53	4.98	4.70
63 G 785	22568	GGV	6500 CT	3.2-4, 6-8, 15, 250, 500	25	1 1/2"x2"	6.47	5.82	5.23	4.95
63 G 786	22570	GGV	5000 CT	3.2-4, 6-8, 15, 250, 500	25	1 1/2"x2"	5.23	4.71	4.24	4.00
63 G 790	22578	GGV	3300 CT	3.2-4, 6-8, 15, 250, 500	60	2 1/4"x2 1/2"	9.82	8.84	7.80	7.51
63 G 798	22574	BHH	Universal CT	1 to 30	25	3 1/2"	5.44	4.89	4.32	4.16
63 G 796	22586	BAH	Universal CT	3.2-4-6-8	3	2"	2.26	2.04	1.99	1.73
63 G 797	22587	BAH	Universal CT	3.2-4, 6-8	6	2 1/2"	2.94	2.65	2.38	2.25
63 G 798	22588	BAH	Universal CT	3.2-4, 6-8	8	2 1/2"	2.94	2.65	2.38	2.25
63 G 759	22593	GGV	9500 CT	3.2-4, 6-8, 15-16	10	1 1/2"x2"	7.03	6.32	5.69	5.38
63 G 774	22595	GGV	5,000 CT, 3,000 CT	3.2-4, 6-8, 15-16	15	1 1/2"x2"	7.70	6.93	6.24	5.89
63 G 799	22597	GGV	6,000 CT	3.2-4, 6-8, 15, 250, 500	25	1 1/2"x2"	7.32	6.59	5.93	5.60
63 G 772	24560	BHH	4000/7000/8000/10,000/14,000 CT	0.1-30	4	2"	1.88	1.70	1.52	1.44
63 G 773	24561	BHH	4000/7000/8000/10,000/14,000 CT	0.1-30	8	2 1/2"	2.20	1.98	1.78	1.68

FILAMENT TRANSFORMERS

Primaries for 117 volt 50-60 cycle AC, except 10,000 volt, 21F26 8500 volt, 21F27 3000 volt, 26F65 6.3 volt, 21F26 115-230 volt. All have 26F65 5000 volt. *Single secondary with taps. 2500 volt insulation, except 21F02 and 21F05 †Tapped primary.

Stock No.	Type	Fig.	Volts	Amps	Ctrs.	Lbs.	1-9,	10-24,	25-49,	50-Up,
							EACH	EACH	EACH	EACH
63 G 665	21F00	BAV	2.5 CT	5	2 1/2"	1	2.35	2.12	1.90	1.80
63 G 666	21F01	BAV	2.5 CT	10	1 1/2"	4.12	3.70	3.33	3.15	
63 G 667	21F02	CAV	2.5 CT	10	2 1/2"x1 1/2"	3.26	4.62	4.16	3.74	
63 G 668	21F03	BAV	5 CT	3	2 1/2"	1 1/2	2.94	2.64	2.50	
63 G 669	21F04	CAV	5 CT	8	2 1/2"x1 1/2"	3	5.56	5.00	4.50	
63 G 681	21F05	CAV	5 CT	3	2x1 1/2"	2 1/2	5.70	5.14	4.62	
63 G 670	21F06	CAV	5 CT	13	2x2"	3 1/2	4.82	4.34	3.91	
63 G 671	21F07	CAV	5 CT	21	2 1/2"x2 1/2"	5 1/2	9.14	8.23	7.41	
63 G 672	21F08	BAV	6.3 CT	1	2"	1	1.88	1.70	1.52	
63 G 604	21F09	BAH	6.3 CT	1.2	2"	1	1.88	1.70	1.52	
63 G 673	21F10	BAH	6.3 CT	3	2 1/2"	1	3.03	2.73	2.45	
63 G 674	21F11	CAV	6.3 CT	6	1 1/2"x2"	2 1/2	4.06	3.66	3.29	
63 G 675	21F12	CAV	6.3 CT	10	2x2"	3 1/4	5.56	5.00	4.50	
63 G 676	21F14	BAH	*6.3/5/2.5	2.5	2 1/2"	1 1/4	3.59	3.22	2.90	
63 G 677	21F15	BAV	7.5 CT	4	2 1/2"	2	4.09	3.67	3.31	
63 G 678	21F16	CAV	7.5 CT	8	2x2"	3 1/4	5.88	5.29	4.76	
63 G 682	21F17	CAV	7.5 CT	12	2 1/2"x2 1/2"	5	7.50	6.74	6.07	
63 G 679	21F18	CAV	10 CT	5	1 1/2"x2"	6 1/2	5.88	5.29	4.76	
63 G 680	21F19	CAV	110 or 11 CT	12 or 11	2 1/2"x2 1/2"	6 1/2	9.61	8.65	7.79	
63 G 605	21F26	.....	7.5 CT	51	3 1/2"x4 1/2"	15	25.96	23.36	21.03
63 G 606	21F27	BAH	26.5 CT	6	2 1/2"	1 1/2	3.26	2.94	2.64	
63 G 746	26F65	BAH	6.3 CT	1.2	2 1/2"	1 1/4	2.44	2.20	1.97	
63 G 607	26F65	BAH	6.3 CT	1.2	2 1/2"	1 1/2	2.68	2.41	2.18	
63 G 608	26F66	LAV	5 CT	15	2 1/2"x2 1/2"	3 1/2	6.85	6.16	5.55	

All are electrostatically shielded except 20A10, Type 20A01 has a frequency response of 60-20A01 and 20A04. Types 20A00 and 20A04 have a frequency response of 250-3500 cps; Type 20A01 has a frequency response of 60-7500 cps and highly effective hum-bucking construction. Av. shpg. wt., 1 lb.

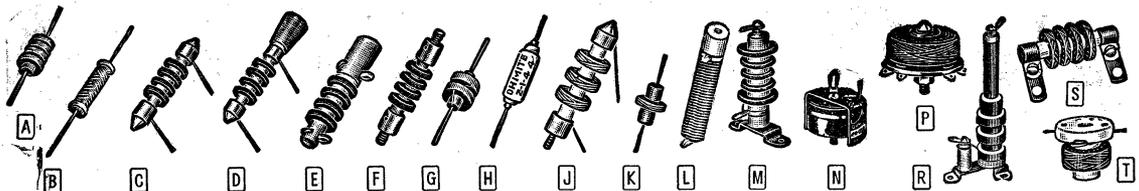
AUDIO INPUT TRANSFORMERS

Stock No.	Mfr's Type	Fig.	Turns Ratio	Application	Mtg. Ctrs.	1-9,	10-24,	25-49,	50-Up,
						EACH	EACH	EACH	EACH
63 G 760	20A00	BAH	1:10	Line or mic to sgl. or PP grids.	2"	3.26	2.94	2.64	2.50
63 G 761	20A01	FGV	1:20	Line or mic to sgl. or PP grids.	2 1/2"	4.26	3.83	3.45	3.26
63 G 764	20A04	BAH	1:80	Voice coil or mic to grid.	2"	1.82	1.64	1.48	1.40
63 G 616	20A10	BAH	1:20	Line or mic to sgl. or PP grids.	2 1/2"	2.94	2.65	2.38	2.25
63 G 610	20A11	BAH	1:20	Line or mic to sgl. or PP grids.	2 1/2"	3.09	2.77	2.50	2.36

AUDIO INTERSTAGE TRANSFORMERS

Primary current, 8 ma. Type 20A25 has hum-bucking construction. Types

RF Chokes — Transformers and Coils



POPULAR RF CHOKES FOR EVERY PURPOSE

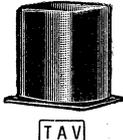
Chokes below may be used in transmitters, receivers, test equipment, etc. 71 H 160 is recommended for transmitters with plate supply of up to 3,000 volts modulated or 4,000 volts unmodulated. It may be used on all bands from 80 through 10 meters. R-33 series chokes are two-section; R-50 series chokes are 3 and 4-section. 71 H 149 choke is hermetically sealed in glass. National suffix "U" following type number indicates re-

movable standoff insulator at one end. National chokes wound on insulating forms; Meissner, on specially treated dowels, except *iron-core type. †Shielded. The four highest frequency Ohmite chokes are wound on low power factor plastic cores; the other three units are wound on statite tubes. ‡Mounted on standoff insulator for vertical mounting. †Millihenries. **Microhenries. Av. shpg. wt., 2 oz.

Stock No.	Mfr.	Type	Fig.	Imp	Ma	Ohms	NET
60 H 795	J. W. Miller	4532	J	1.5	200	21	.53
71 H 150	National	R-100	C	2.5	125	50	.40
71 H 188	National	R-100	C	5	75	50	.40
71 H 189	National	R-100	C	10	75	50	.40
71 H 152	National	R-300	C	1	300	10	.44
71 H 151	National	R-100U	D	2.5	125	50	.48
71 H 186	National	R-100U	D	5	75	50	.48
71 H 187	National	R-100U	D	10	75	50	.48
71 H 533	National	R-300U	D	1	300	10	.48
71 H 161	National	R-100S	E	2.5	125	50	.48
71 H 178	National	R-100S	E	5	75	50	.48
71 H 179	National	R-100S	E	10	75	50	.48
71 H 162	National	R-300S	E	1	300	10	.48
71 H 164	National	R-300ST	F	2.5	300	10	.46
71 H 159	National	R-33	G	10**	100	1.0	.40
71 H 158	National	R-33	G	50**	100	4.0	.40
71 H 163	National	R-33	G	100**	100	5.0	.40
71 H 148	National	R-33	G	1**	100	.06	.40
71 H 149	National	R-33	G	750**	100	17	.40
71 H 198	National	R-50	G	2.5	100	41.5	.40
71 H 250	National	R-50	A	.5	100	16.2	.40
71 H 251	National	R-50	A	1	100	22	.40
71 H 252	National	R-50-I	A	10	100	30	.61
71 H 253	National	R-60	B	2**	1700	.....	.40
71 H 156	National	R-154U	M	1	600	6	1.61
71 H 160	National	R-175A	R	.225	800	6	3.56
60 H 027†	Meissner	19-5588	N	8.0	30	77	.76
60 H 030†	Meissner	19-5592	N	30.0	20	165	1.18
60 H 031†	Meissner	19-5594	N	60.0	16	318	1.18
60 H 032†	Meissner	19-5596	N	80.0	16	342	1.18
60 H 010	Meissner	19-1994	P	2.5	20	40	.53
60 H 011	Meissner	19-4551	P	5.5	20	57.5	.53
60 H 014	Meissner	19-1995	P	16.0	20	108	.53
60 H 015	Meissner	19-2330	P	30.0	20	159	.76
60 H 016	Meissner	19-3247	P	60.0	20	258	.82
60 H 017	Meissner	19-2709	P	80.0	16	372	.82
60 H 040*	Meissner	19-6834	P	2.5	20	22.5	.68
60 H 042*	Meissner	19-6842	P	30.0	20	114	1.00
60 H 045*	Meissner	19-6848	P	125.0	75	330	1.62
72 H 040	Millen	34100	P	2.5	250	52.5	.48
72 H 073	Millen	34101	J	2.5	250	51.5	.42

Stock No.	Mfr.	Type	Fig.	Imp	Ma	Ohms	NET
72 H 067	Millen	34103	C	2.5	250	52.5	.42
72 H 076	Millen	34106	J	1	300	13.5	.42
72 H 134	Millen	34300-100	K	100**	250	6.7	.42
72 H 135	Millen	34300-250	K	250**	250	11	.42
72 H 186	Millen	34300-25	K	25**	250	3.1	.42
72 H 187	Millen	34300-50	K	50**	250	4.7	.42
72 H 188	Millen	34300-300	K	300**	250	10.1	.42
72 H 189	Millen	34300-500	G	500**	250	19.8	.42
72 H 191	Millen	34300-1000	G	1000**	250	19	.42
72 H 192	Millen	34225	.....	25	75	159	.84
72 H 193	Millen	34280	.....	80	75	336	.96
72 H 194	Millen	3300-100	B	100**	50	4.0	.42
72 H 195	Millen	3300-250	B	250**	50	6.2	.42
72 H 196	Millen	3300-500	B	500**	50	12.8	.42
72 H 197	Millen	3300-1000	B	1000**	50	20.3	.42
72 H 198	Millen	3300-2500	B	2500**	50	37.2	.42
60 H 417	P & H	160-6	L	162**	2500	.....	3.50
60 H 406	Bud	CH-926S	S	2.5	200	25	.60
60 H 407	Bud	CH-927S	S	5.5	200	32	.60
60 H 408	Bud	CH-928S	S	10	200	49	.60
60 H 409	Bud	CH-929S	S	2.5	400	11	.60
60 H 410	Bud	CH-1222	T	2.5	200	22	.60
60 H 411	Bud	CH-1224	T	3.5	200	33	.60
60 H 412	Bud	CH-1225	T	8	200	40	.60
60 H 413	Bud	CH-1227	T	16	200	59	.60
60 H 414	Bud	CH-1228	T	30	190	88	.68
60 H 415	Bud	CH-1229	T	60	180	130	.75
60 H 416	Bud	CH-1230	T	80	175	160	.83

Stock No.	Mfr.	Type	Fig.	**uh	Ma	Mc	NET
74 M 410	Ohmite	Z-460	H	0.2	1000	320-520	.29
74 M 411	Ohmite	Z-235	H	0.84	1000	160-350	.29
74 M 412	Ohmite	Z-144	H	1.8	1000	80-200	.29
74 M 413	Ohmite	Z-50	H	7.0	1000	35-110	.29
74 M 414	Ohmite	Z-28	.....	21	600	20-60	.47
74 M 415	Ohmite	Z-14	.....	44	600	7-35	.53
74 M 416	Ohmite	Z-14	.....	84	1000	3-20	1.21
71 H 296	National	B20407-1	.....	.1	2000	30	.30
71 H 297	National	B20407-2	.....	.18	2000	30	.38
71 H 298	National	B20407-3	.....	.27	2000	30	.48
71 H 299	National	B20407-4	.....	.36	2000	30	.59



THORDARSON-MEISSNER TRANSFORMERS

All Thordarson transformers are conservatively rated and may be depended upon to meet specifications shown. Each unit is made under rigorous control and final tests are made at full load under actual operating conditions. Operating reliability is safe-guarded by the latest precision engineering and control methods for maximum dependability.

UNIVERSAL LINE-TO-VOICE COIL

BHH 24S21, 24S22 and 24S23 are fig. TAV; others BHH. Secondary taps marked with impedance values. *Also marked for 70 v. operation. †For 25 v. operation. ‡Autoformer. †Also has 39 ohm pri. tap.

Stock No.	Mfr's Type	Pri. Imp.	Sec. Imp.	Watts	Ctrs.	Wt. Lbs.	NET EACH				
							1-9	10-24	25-49	50-UP	
63 G 791	2ZS80	500, 600		8	3 3/4"	1 1/2	3.91	3.52	3.17	2.99	
63 G 792	2ZS82			25	3 3/4"	2 1/2	3.53	3.15	2.86	2.70	
63 G 793	2ZS83	2000/1500/1000/500	3.2, 8, 16	15	3 3/4"	2 1/2	3.91	3.52	3.17	2.99	
63 G 794	2ZS84			5	2 1/4"	1 1/2	3.41	3.09	2.76	2.61	
63 G 795	2ZS85			3	2 3/4"	1	3.76	3.39	3.05	2.88	
63 G 744	24S66	2000, 1500, 1000, 500	3.2, 8	10	2"	1	2.73	2.46	2.21	2.09	
63 G 745	24S62*	3000, 2500, 2000, 1500, 1000, 500	.06, 4, 8	10	3"	2 1/2	4.23	3.81	3.43	3.24	
63 G 166	24S21†	12, 15, 312, 625	4, 8	8	2"	3/4	2.85	2.56	2.31	2.18	
63 G 167	24S22†	1250	16	16	2 1/4"	1 1/2	4.09	3.68	3.31	3.13	
63 G 168	24S23†	162, 125, 250, 500	4, 8	10	2 1/2"	1	3.26	2.94	2.64	2.50	
63 G 169	24S24†	500, 1000, 2000	4, 8	5	2"	1/2	2.12	1.91	1.72	1.62	

OSCILLOSCOPE TRANSFORMER

GGV Type 22 R40. For use in oscilloscopes, CRT applications and test equipment. Primary, 117 volts, 60 cycles. Plate, 1800 volts AC at 2 ma. Rectifier filament, 2.5 volts at 1.8 amps. Filament 1, 6.3 volts at 0.6 amps; tapped at 2.5 volts, 2.1 amps. Overall size: 3 3/4"x3 3/4"x3 1/4". 4-hole mounting; mtg. centers, 2 1/2"x2 1/4". Shpg. wt., 5 1/2 lbs. 63 G 717, 10-24, EACH 11.75. 1-9, NET EACH 13.05

CLASS "B" AND "AB" DRIVERS

High quality driver transformers designed to provide sufficient primary inductance and proper turns ratio for the most rigid requirements. For use in modulators or high-powered audio amplifiers. *Indicates single plate to PP grids. Others can be used as single or PP plates to PP grids. †Illustrated at page 174.

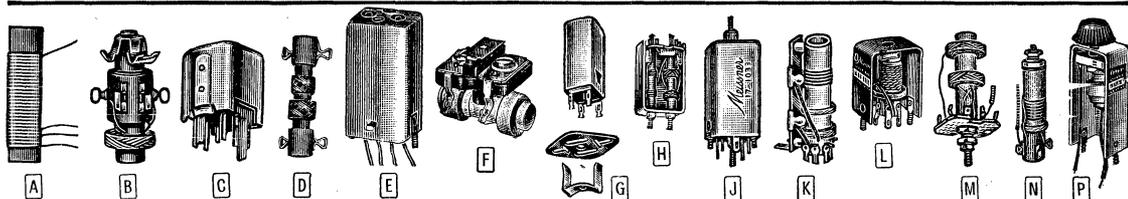
Stock No.	Mfr's Type	Fig.	Max. Ma DC	Pri. to Sec	Mtg. Ctrs.	Wt. Lbs.	NET EACH				
							1-9	10-24	25-49	50-UP	
63 G 690	20D75*	BAH	5	2.4:1	2"	1	2.76	2.49	2.24	2.12	
63 G 691	20D76*	BAH	15	5.2:1	2"	1	2.76	2.49	2.24	2.12	
63 G 692	20D77*	FGV§	30	2.5:1	2 1/2"	1	4.23	3.81	3.43	3.24	
63 G 693	20D78	GGV	40	4.0:1	1 1/2"x2"	3	5.97	5.37	4.83	4.57	
63 G 694	20D79	FGV§	30	5.2:1	2"	2	5.03	4.26	4.07	3.85	
63 G 609	20D87	BAH	30	5.2:1	2 1/2"	1 1/2	4.91	4.42	3.98	3.76	

"ECONOMY SERIES" OUTPUT TRANSFORMERS

A wide selection of single-ended output transformers designed for economical replacement purposes in radio and TV sets as well as phonographs. Available in popular ratings to meet a wide variety of radio servicing needs and to match popular power output tubes used in new equipment design. All have single 3.2-ohm secondaries and are rated for Class A operation. Av. shpg. wt., 1 1/2 lb.

Stock No.	Mfr's Type	Primary Impedance	Pri. Ma	Watts	Mtg. Ctrs.	NET EACH				
						1-9	10-24	25-49	50-UP	
63 G 742	24S48	4,000-5,000	10	5	1 3/4"	1.29	1.16	1.05	.99	
63 G 743	24S49	7,000-8,000	10	5	1 3/4"	1.21	1.08	.98	.92	
63 G 768	24S50	2,000	10	5	2"	1.21	1.08	.98	.92	
63 G 769	24S51	5,000	40	5	2"	1.29	1.16	1.05	.99	
63 G 770	24S52	7,000-8,000	30	5	2"	1.26	1.14	1.02	.97	
63 G 771	24S54	15,000-25,000	10	5	2"	1.38	1.24	1.12	1.06	

Meissner IF's and Coils



MINIATURE COILS AND IF'S TRANSISTOR COILS

Transistor Antenna and Oscillator Coils. For broadcast frequencies with most transistors. High Q for maximum signal pick up. Wt., 3 oz.

Stock No.	Mfr's Type	Fig.	Use	Req. MMF	Size	NET EACH
60 H 950	14-9001	A	Ant.	98	5/16x3/4x2 1/2"	1.47
60 H 951	14-9003	A	Ant.	365	1/2x1"	1.47
60 H 952	14-9004	B	Osc.	365	1/16x3/8"	1.18
60 H 953	14-9005	A	Ant.	123	5/32x3/4x3 1/2"	2.94
60 H 954	14-9006	C	Osc.	78	1/2x1 1/2x3/8"	1.18
60 H 955	14-9009	Ant.	165	3/8x1"	1.76	
60 H 956	14-9010	B	Osc.	82	9/16x1 1/2"	1.18
60 H 957	14-9011	Ant.	73	3/8x5"	1.76	
60 H 958	14-9012	Osc.	59	1/2x3/4"	1.47	
60 H 959	14-9013	Ant.	123	1/4x5"	1.44	
60 H 960	14-9014	B	Osc.	98	1/4x3/8"	1.18
60 H 961	14-9015	B	Ant.	100-365	3/4x2"	1.03

Transistor IF Transformers. High-quality units for input—A; interstage—IS; and output—O. Ideal for printed circuits. 455 KC except 16-9001 (262 KC). 1/2" sq. 3 oz.

Stock No.	Type	Pri. Imp.	Sec. Imp.	Use	NET
60H 962	16-9001	20000	600	All	2.94
60H 963	16-9002	25000	600	All	1.65
60H 964	16-9003	10000	500	A, IS	2.94
60H 965	16-9004	10000	1500	O	2.94
60H 966	16-9007	80000	25	A	2.94
60H 967	16-9008	30000	25	IS	2.94
60H 968	16-9009	30000	1000	O	2.94
60H 969	16-9012	25000	250	A	2.94
60H 970	16-9013	20000	150	IS	2.94
60H 971	16-9014	20000	1000	O	1.65

MINIATURE VARIABLE PEAKING COILS

For exact adjustment of frequency response in video amplifiers. Slug-tuned. Wt., 4 oz.

No.	Type	Range	Size	EACH
60H 034	19-1920	65-115 μ H		59c
60H 035	19-1921	115-195 μ H	1x1 1/2"	59c
60H 036	19-1922	195-325 μ H		59c
60H 037	19-1923	325-500 μ H		73c



IRC INSULATED HF CHOKES

Insulated wire-wound chokes for use in high frequency circuitry. Compact size and wide choice of inductances. Fully protected by molded phenolic housings against humidity, abrasion and physical damage. 1000 volts test. Color coded. All values are BIA preferred and have $\pm 10\%$ tolerance. Type CLA units have resistance tolerance of $\pm 20\%$, except 0.47, 0.56, 0.68 and 1.0 microhenry units which are $\pm 30\%$. CL-1 units are $\pm 20\%$, except 0.47, 0.82 and 1.0 microhenry units which are $\pm 30\%$. "Q" rises with frequency. CLA, 2 1/2" x 1/4" dia.; CL-1, 1 1/4" x 1/4" dia. Wt., 2 oz.

Stock No.	Mfr's Type	Micro-henries	DC Ohms	Res. (Mc.) Freq.
74 M 420	CLA	0.47	0.22	305
74 M 421	CLA	0.56	0.26	275
74 M 422	CLA	0.68	0.37	250
74 M 424	CLA	1.0	0.66	205
74 M 425	CLA	1.2	0.68	190
74 M 426	CLA	1.5	0.94	170
74 M 427	CLA	1.8	1.3	155
74 M 428	CLA	2.2	1.8	140
74 M 429	CLA	2.7	2.0	125
74 M 430	CLA	3.3	2.8	115
74 M 431	CL-1	0.47	0.14	330
74 M 434	CL-1	0.82	0.29	250
74 M 435	CL-1	1.0	0.33	225
74 M 437	CL-1	1.5	0.56	185
74 M 438	CL-1	1.8	0.77	170
74 M 439	CL-1	2.2	0.87	150
74 M 440	CL-1	2.7	1.2	135
74 M 441	CL-1	3.3	1.7	125
74 M 442	CL-1	3.9	2.3	115
74 M 443	CL-1	4.7	2.5	105
74 M 444	CL-1	5.6	3.4	95
74 M 445	CL-1	6.8	4.7	86
74 M 446	CL-1	8.2	5.2	79
74 M 447	CL-1	10.0	7.5	71

100-U-P, EA. 12 1/2¢ 1-99, EA. ... 21¢

MINIATURE IRON-CORE COILS

Permeability-tuned broadcast coils. For AC sets *except battery. Shpg. wt., 3 oz.

No.	Type	Use	Size	EACH
60 H 167	14-1071	Ant.	1 1/2x3/8"	1.03
60 H 168	14-1072	RF	1 1/2x1/2"	
60 H 183	14-1073*	Osc.	1x3/8"	

IF TRANSFORMERS LOW-COST PLASTICS

Low-cost IF's. Air core except. Iron core. 2 1/2x1 1/4x1 1/4"; 1 1/8x1 1/8x2 1/2". Wt., 6 oz.

Stock No.	Mfr's Type	Use	Freq. Kc	NET EA.
60 H 192	16-6649	Input	175	1.56
60 H 193	16-6651	Input	175	1.56
60 H 194	16-6652	Input	262	1.41
60 H 195	16-6654	Output	262	1.41
60 H 196	16-6658	Input	456	1.41
60 H 197	16-6659	Interstage	456	1.41
60 H 198	16-6660	Output	456	1.41
60 H 070	16-6666§	Input	456	1.41
60 H 071	16-6667§	Output	456	1.41
60 H 139	16-6662†	Input	456	1.47
60 H 144	16-6663†	Output	456	1.47

STANDARD GENERAL REPLACEMENTS

Suitable for most receivers. Double-tuned mica trimmers. Size, 3x1 1/2x1 3/8". Av., 4 oz.

Stock No.	Mfr's Type	Use	Freq. Kc	NET EA.
60 H 077	16-5700	Input	175	1.62
60 H 080	16-5712	Input	456	1.47
60 H 081	16-6133	Interstage	456	1.62
60 H 082	16-5714	Output	456	1.47
60 H 079	16-3731	OutputCT	175	1.47
60 H 083	16-3736	OutputCT	456	1.62

456 KC IRON-CORE REPLACEMENTS

Same as above, but powdered iron cores. 1 1/8x1 1/8x3 1/2"; 1 1/8x3/8x2 1/2". †For battery radios. Wt., 5 oz.

Stock No.	Mfr's Type	Use	NET EACH
60 H 181	16-5740†	Input	2.06
60 H 190	16-5742†	Output	1.76
60 H 199	16-6668§	Input†	1.76
60 H 143	16-6678§	Output†	1.76
60 H 104	16-6678§	Input/Output	1.76

"CARTWHEEL" IF TRANSFORMER

60 H 095. Type 16-6661. Input, interstage or output. Freq. range. 380-600 kc. 1 3/8x1 1/4". Dual trimmers. Wt., 5 oz. NET.... 1.41

3/4" PERMEABILITY TUNED IF's

Tuned at top and bottom by variable iron cores. Silvered mica condensers. Size, 2x3/4x 3/4". With mtg. plates. †With diode filters. 4 oz.

Stock No.	Mfr's Type	Use	Freq. Kc	NET EACH
60H 152	16-6758	Input/Output	456	1.29
60H 153	16-6770†	Output	456	1.35
60H 157	16-6754†	Output	262	1.53
60H 154	16-6752	Input	262	1.47

TWEET FILTER OUTPUT IF TRANSFORMER

Type 16-6670. Frequency, 456 kc. 2 1/2x1 1/4x1 3/4". RETMA (EIA) color-coded leads. 4" long. Shpg. wt., 4 oz. NET.... 1.76

60 H 145. NET.... 1.76

AM-FM IRON CORE IF

Type 16-6675. Has a 455 kc AM and 10.7 mc FM transformer. Each circuit tunes by powdered iron cores. 2 1/2x1 3/8x1 3/8". 7 oz. NET.... 2.94

10.7 MC FM IF TRANSFORMERS

High quality—permeability tuned. Input or interstage type. Stable shunt capacities. Excellent for replacement use or as part of original equipment. Av. shpg. wt., 5 oz.

No.	Type	Mounting	Size	EACH
60 H 097	16-6665	J	1 1/2" x 3/8x3/8"	1.62
60 H 158	16-3487	G	Var. 3/8x1 1/2" x 3/8x2"	1.62

BROADCAST, TV AND PHONO COILS

REPLACEMENT COILS

Wide selection of air-core types. High-impedance primary. Litz wire secondary. Tune 545-1620 kc, with 360 mmf tuning condenser. *Shielded. †456 kc IF frequency; 350 mmf pad required. Shpg. wt., 5 oz.

No.	Type	Fig.	Use	Size	EACH
60 H 000	14-1010	K	Ant	1 1/4x2 1/2"	1.18
60 H 001	14-1011	K	RF	1 1/4x2 1/2"	
60 H 005	14-1004*	L	Ant	1 3/4x1 3/4x2 1/2"	
60 H 006	14-1005*	L	RF	1 3/4x1 3/4x2 1/2"	1.18
60 H 075	14-2436*	L	Ant	1 3/8x1 3/8x2"	
60 H 076	14-2437*	L	RF	1 3/8x1 3/8x2"	
60 H 161	14-4034†	M	Osc	1x1 1/2"	1.18
60 H 166	14-4243†	L	Osc	1 1/2x1 1/2x1 3/4"	
60 H 150	14-1022	K	Ant	3/4x2 1/2"	1.03
60 H 151	14-1023	K	RF	1 1/2x2 1/2"	1.03

PENTAGRID OSCILLATOR BROADCAST COILS

Type 14-1033. Tapped type for 6SA7, 12SA7, etc. 456 kc. Single 1/4" hole mtg. 3/4" dia. 1" long. Use 420 mmf padder. 4 oz. 60 H 170. NET.... 1.03

60 H 170. NET.... 1.03

Type 14-1053. Oscillator coil. (Not illustrated.) 455 kc. Same as above, but requires cut section padder. 162 mmf. Single 1/4" hole mounting. 3/4" dia. Wt., 4 oz.

60 H 118. NET.... 1.03

UNIVERSAL ADJUSTABLE INDUCTANCE COILS

†For battery-operated sets. Osc. coils, 456 kc. IF* except IF frequencies between 175 and 520 kc. Single-hole mounting. Screwdriver adj. Broadcast band. Wt., 5 oz.

No.	Type	Fig.	Coil	Size	EACH
60 H 060	14-1040	N	Osc.	5/8x1 1/2"	1.47
60 H 125	14-1060†	N	Osc.	3/4x1 3/4"	
60 H 135	14-1026	M	RF	1 1/8sq. x 1 3/4"	
60 H 136	14-1027	M	RF	1 1/8sq. x 1 3/4"	1.47
60 H 137	14-1028*	M	Osc.	1 1/8sq. x 1 3/4"	
60 H 171	14-1056	N	Ant	3/4x1 1/2"	
60 H 172	14-1057	N	RF	3/4x1 1/2"	1.47
60 H 173	14-1058*	N	Osc.	3/4x1 1/2"	

Type 15-2866. Adjustable Wave Trap. Not illustrated. 456 kc. Shpg. wt., 4 oz. 60 H 126. NET.... 1.18

PHONO-OSCILLATOR COIL

Type 17-9373. For use in building either wireless or direct connected phono-osc. units. Permits record reproduction through any radio receiver. Knob adjustment allows selection to obtain clear frequency. Size: 3 1/2x1 3/8x1 3/8". Shpg. wt., 4 oz. 60 H 096. NET.... 2.20

SHORTWAVE AND MULTIPLE-BAND COILS BFO COIL

Type 17-6753. Beat frequency oscillator coil. For receivers having IF's between 290 and 650 kc. Supplies "beat" note necessary to receive CW. 3x1 1/8x1 3/8". Wt., 6 oz. 60 H 230. NET.... 2.94

ADJUSTABLE INDUCTANCE SHORTWAVE COILS

Adjustable Hi-Q iron cores. Tune with 292 mmf condenser. Universal replacements. Freq. range: 1.7-5.3 mc. 3/4x1 3/4". Shpg. wt., 4 oz.

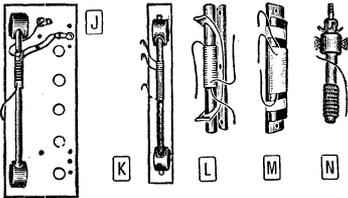
No.	Type	Coil type	EACH
60 H 146	14-1061	Antenna	1.76
60 H 147	14-1062	R.F.	
60 H 148	14-1063	Osc. (for 6SA7)	

MULTIPLE-BAND COILS

Engineered for custom set builders, experimenters, etc. For use with 456 kc IF. Range: 530-1660 kc, 5.8-19 mc. Shpg. wt., 5 oz.

No.	Type	Coil type	Size	EACH
60 H 149	14-2860	Antenna	1x1 1/4x3 1/4"	2.94
60 H 124	14-2862	Osc.	1x1 1/2x2 1/4"	

J. W. Miller Components



LOOP ANTENNAS FERRITE ROD ANTENNA

J Type 705A. For universal replacement use. Uses a highly efficient design for outstanding performance. Improves reception of distant stations. Extremely easy to adjust. Simply slide the coil along the ferrite rod to peak the antenna. Non-directional. Replaces any loop antenna. $3\frac{1}{4} \times 9\frac{1}{2}$ ". Shpg. wt., 5 oz. **60 H 893. NET. .162**

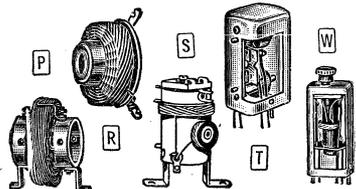
K Type 2000. Has fixed inductance loop; picks up adequate signal to the first stage. Inductor is tapped to match the 600 ohm input impedance of the transistor. Frequency range is 540-1650 kc when used with a 365 mmf variable capacitor. $1\frac{1}{4} \times 9\frac{1}{2}$ ". Shpg. wt., 3 oz. **60 H 894. NET. .162**

L Type 2001. Matches 600 ohm input impedance. Inductance, 240 μ h. Tunes with 365 mmf. $3\frac{1}{4} \times 3\frac{3}{4}$ ". Shpg. wt., 4 oz. **60 H 976. NET. .147**
M Type 2003. As above, but 700 microhenries. Use with 125 mmf capacitor. **60 H 977. NET. .147**

N Type 2004. Matches 600 ohm input impedance. Inductance, 240 μ h. Tunes with 365 mmf. $1\frac{1}{4} \times 3\frac{3}{4}$ ". Shpg. wt., 4 oz. **60 H 978. NET. .147**
O Type 2005. As above, but 700 microhenries. Use with 125 mmf capacitor. **60 H 979. NET. .147**

P Type 2002. Adjustable from 35-300 μ h. Hi-Q coil tunes with 500 mmf. Mounts in $\frac{3}{16}$ " hole, or bracket supplied. Matches 600 ohm input. Size, $\frac{1}{2} \times 2\frac{1}{2}$ ". Shpg. wt., 3 oz. **60 H 980. NET. .88c**

DUO-LATERAL FILTER CHOKES



P Effective line filters. Duo-lateral wound for low distributed capacity. Ideal for use in AC lines to filter RF or noise pulses from Amateur or commercial transmitters; from power supplies, sign flashers, diathermy equipment, farm lighting plants, signal systems, oil burners and all intermittent switching systems. 7825 is $1\frac{1}{2} \times 1\frac{1}{2}$ " wound on bakelite form. 7826 and 7827 are $2\frac{1}{2} \times 4\frac{1}{4}$ " wound on ceramic forms.

No.	Type	Amps	Ohms	Ohms	Mh	NET
70 H 185	7825	2	.7	5	.600	1.18
60 H 886	7826	5	.28	10	5.70	2.85
60 H 887	7827	10	.15	16	.370	3.20

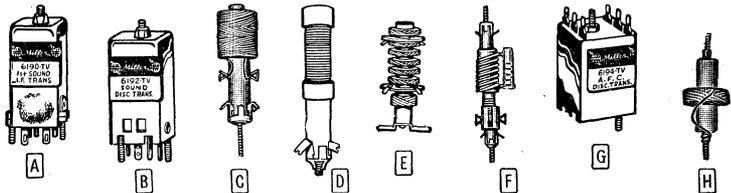
CENTER TAPPED CHOKE

R Duo-lateral wound, single-section RF chokes. Ceramic doughs. 20 mh. 100 ohms, 125 ma. $1\frac{1}{2} \times \frac{3}{8}$ " high. Shpg. wt., 4 oz. **60 H 588. NET. .71c**

S For alarm systems, window displays, etc. With diagram. $\frac{7}{8} \times 2\frac{1}{4}$ " high. Wt., 4 oz. **60 H 589. NET. .695. NET. .171**

T Type 612-M5. Mica tuned air core. Frequency, 132-127-137 KC range. Has knob for adjustment. $3\frac{3}{4} \times 1\frac{1}{8} \times 1\frac{1}{8}$ ". Wt., 4 oz. **60 H 821. NET. .206**

W Type 1890-P1. For input or interstage. $3\frac{1}{4} \times 1\frac{1}{8} \times 1\frac{1}{8}$ ". Shpg. wt., 4 oz. **60 H 822. NET. .500**



TV COILS, INDUCTORS & TRANSFORMERS

A complete selection of highest-quality components specifically designed to meet the rigid requirements of television sets, scopes, and related electronic equipment.

Ideal for both original equipment and replacement use. All units are manufactured from the finest materials—your absolute assurance of dependable service.

SOUND IF TRANSFORMERS

A Permeability tuned sound IF transformers Type 6190 and Type 6191 for 21.25 mc in television receiver sets with separate picture and sound IF channels. Type 1466 is for 4.5 mc in sets with inter-carrier system. Provide high gain and adequate bandwidth for high-fidelity sound. All units listed have primary adjustable from top of aluminum can; secondary from bottom. Have convenient spade bolt mounting. Type 6190 and Type 6191 have an over-all size of $\frac{7}{8} \times \frac{1}{2} \times 2\frac{1}{4}$ " high. Type 1466 and Type 1470 have an over-all size of $1\frac{1}{8} \times 1\frac{1}{8} \times 2\frac{1}{8}$ " high. Shpg. wt., 5 oz.

Stock No.	Mfr's Type	Description	NET EACH
60 H 762	6190	1st IF sound	1.41
60 H 763	6191	2nd IF sound	1.41
60 H 764	1466	Input or Interstage	1.53
60 H 705	1470	Sound Trap, 4.5mc	.73

SOUND DETECTOR AND OSCILLATOR TRANSFORMERS

B Quality TV components. Types 6192 and 6184 for TV receivers with separate 21.25 mc sound IF channel. Types 1467 and 1468 are for 4.5 mc IF in sets using inter-carrier sound system; Type 6192 and Type 1467 are the Foster-Seely type and are normally preceded by one or two limiter stages. Type 6184 and Type 1468 are for use in ratio detector circuits. Type 6182 has tapped coil for horizontal oscillator Synchro-guide circuit. Type 6183 dual windings for Sync. Frequency and Phase circuit. Aluminum shields with 6-32 spade bolt mounting. Sizes: Type 6192 and Type 6184, $1\frac{1}{8} \times 1\frac{1}{8} \times 2\frac{1}{2}$ ". Type 1467 and Type 1468, $1\frac{1}{8} \times 1\frac{1}{8} \times 2\frac{1}{2}$ ". Type 6182 and Type 6183, $1\frac{1}{8} \times 1\frac{1}{8} \times 2\frac{1}{2}$ ". Shpg. wt., 5 oz.

Stock No.	Mfr's Type	Description	NET EACH
60 H 765	6192	Discriminator	1.76
60 H 766	6184	Ratio detector	1.94
60 H 767	6182	Hor. Osc.	1.32
60 H 768	6183	Hor. Osc.	1.62
60 H 767	1467	Discriminator	1.76
60 H 768	1468	Ratio detector	1.94

SYNC STABILIZER (RINGING) COIL

C Type 6210. Has bakelite form with $\frac{7}{16}$ " mounting clip. 16-42 mh range. Size, $3\frac{1}{4} \times 2\frac{1}{2}$ ". Shpg. wt., 2 oz. **60 H 820. NET. .132**

HORIZONTAL LINEARITY AND WIDTH CONTROL

D Iron-core variable inductance coils for horizontal sweep circuits. *Have AGC winding. Mounting clip fits $\frac{7}{16}$ " hole. 6300 series are $\frac{1}{2} \times 2\frac{1}{4}$ " long on phenolic forms. 6100 series are $\frac{3}{8} \times 2\frac{1}{2}$ " long on bakelite forms. Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Millihenries	NET EA.
60 H 770	6195	.185-1.000	.73
60 H 771	6196	.054-0.245	.65
60 H 897	6196-A	.054-.50 tapped	.73
60 H 772	6197	.550-2.300 tapped	.73
60 H 773	6198	1.70-0.610	.65
60 H 774	6199-A	1.300-4.100 tapped	.76
60 H 775	6199-B	5.00-1.700	.73
60 H 826	6313	.5-5	.98
60 H 827	6314	2.0-18	1.03
60 H 828	6315	4.0-30	1.06
60 H 829	6316*	4.0-30	1.32
60 H 830	6317*	3.2-9	1.32
60 H 831	6318	2-3	.88
60 H 832	6319	15.0-60	1.32
60 H 833	6320	2-3 tapped	.88
60 H 834	6321	1.0-5 tapped	.88
60 H 835	6322	1.5-10	1.03
60 H 836	6323	5-5	.88
60 H 898	6324	60-130 tapped	1.32

HIGH VOLTAGE RF POWER SUPPLY TRANSFORMERS

E Type 4525. RF power supply transformer for TV receivers, scopes. Up to 5,000 v. DC. Size, $3\frac{3}{4} \times 1\frac{1}{4}$ ". Wt., 4 oz. **60 H 754. NET. .485**

F Type 4526. Up to 10,000 v. DC. (30,000 in rectifier-tripler circuit). Size, $6 \times 2\frac{1}{4}$ " diameter. Shpg. wt., 4 oz. **60 H 757. NET. .808**

20 MC RANGE PICTURE IF TRANSFORMERS

F Popular shielded and unshielded permeability tuned TV IF transformers, single and bifilar wound. Type 6247 has single tuned circuit and cathode trap. Type 6248 employs single winding. Types 6251 and 6252 are shielded. Unshielded coils have mounting clip for $\frac{7}{16}$ " O.D. by $2\frac{1}{2}$ " long. Type 6245, Type 6246, Type 6247 and Type 6248 are single wound. Type 6249, Type 6250, Type 6251, Type 6252, Type 6253 and Type 6254 are bifilar wound. Av. shpg. wt., 5 oz.

Stock No.	Mfr's Type	IF Mc	Trap Mc	NET EA.
60 H 840	6245	25.5	27.25	1.47
60 H 841	6246	22.0	21.20	1.47
60 H 842	6247	21.25	.....	1.47
60 H 843	6248	24.5	.....	.88
60 H 844	6249	21-25	.....	.88
60 H 845	6250	25-29	.....	.88
60 H 846	6251	21-25	.....	1.32
60 H 847	6252	21-25	.....	1.32
60 H 848	6253	21-30	20-23	1.62
60 H 849	6254	22-32	24-29	1.62

HORIZONTAL OSCILLATOR AFC DISCRIMINATOR TRANSFORMER

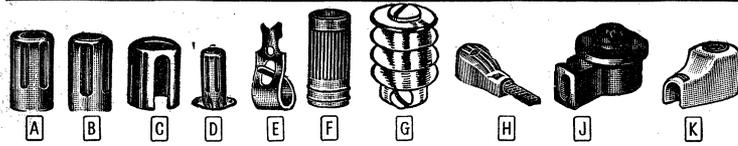
G Type 6194. For horizontal oscillator circuits using "synchro-lock" automatic frequency control system. Two coupled permeability tuned windings; one, tapped for use in horizontal blocking oscillator tank circuit; the second, center-tapped for phase discrimination. Housed in aluminum shield with adjustment for horizontal frequency at top, and adjustment for horizontal phase at bottom. 6-32 spade bolt mounting. Over-all size: $1\frac{1}{8} \times 1\frac{1}{8} \times 2\frac{1}{2}$ " high. Shpg. wt., 5 oz. **60 H 769. NET. .162**

VIDEO PEAKING & FILAMENT CHOKE COILS

H Type 6175 is filament choke. Reduces stray coupling, feedback, etc. Others are video peaking coils for proper bandwidth and wave shape of video signals. Coils without shunt resistor wound on plastic forms; shunt types wound on resistor. Over-all size: Type 6175, $\frac{7}{8} \times \frac{3}{8}$ " diameter; all other types, $\frac{3}{8} \times \frac{3}{8}$ " diameter. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	μ hs.	Shunt	NET EACH
60 H 792	6172	73	None	35c
60 H 889	6153	120	None	
60 H 793	6173	250	22 K	
60 H 794	6174	500	None	29c
60 H 776	6175	0.8	None	
60 H 888	6152	20	None	
60 H 777	6176	36	None	35c
60 H 778	6177	93	None	
60 H 779	6178	120	22 K	
60 H 780	6179	180	39 K	None
60 H 781	6180	180	None	
60 H 890	6154	200	None	
60 H 792	6181	250	None	None
60 H 891	6155	300	None	

Shields, Caps, Coil Forms, Capacitors



RECEIVING TUBE GRID CAPS AND SHIELDS

A complete selection of grid caps and shields for receiving-type tubes. Shield caps are used extensively with high-gain RF and audio amplifiers to minimize microphonics, and prevent oscillation, hum pickup, etc. Also used to shield oscillator and converter tubes to avoid radiation. Tube caps provide positive, dependable contact. Av. shpg. wt., per pkg., 3 oz.

Stock No.	Fig.	Description and Application	Quantity Per Pkg.	NET Per Pkg.
42H 510	A	Goat G1332-3 tube shield for GT tubes, 25 $\frac{1}{8}$ " high, $\frac{7}{8}$ " hole.	4	25c
42H 511	B	Goat G1332-5A. Same as 42H 510, but with closed top.	4	25c
42H 513	C	H. H. Smith 537 metal tube grid shield. Slot for grid lead.	2	24c
42H 512	D	Goat G1700 tube shield for miniature 75 $\frac{1}{2}$ " with G1710-B base. .865"x1 $\frac{1}{8}$ ".	3	14c
42H 514	E	National Type 24. For standard tubes, $\frac{3}{8}$ " dia. grid caps.	5	20c
42H 515	F	National Type 8. For octal tubes, $\frac{1}{4}$ " diameter grid caps.	5	20c
42H 507	E	Goat G1222K-5 tube shield for GT types. 1 $\frac{1}{4}$ " dia., 2 $\frac{1}{2}$ " high.	4	14c
42H 509	F	Goat G1222L-4 tube shield for loktal type tubes. 1 $\frac{1}{2}$ " dia., 2 $\frac{1}{2}$ " high.	4	13c
42H 508	.....	(Not illustrated). Goat G1004-2 ground clip for grounding shields on octal tubes.	5	11c
42H 506	.....	(Not illustrated). Goat G1307-2 double clip for octal base tubes (fits on tube socket).	5	7c

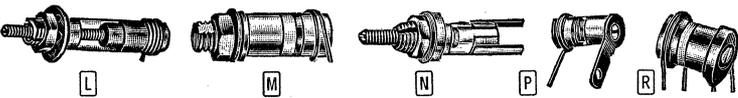
TRANSMITTING TUBE CAPS

An excellent selection of plate and grid caps for transmitting tubes. Listing includes heat-dissipating types; fins provide large metal surface area for rapid radiation of heat; have machine screw for secure connection. Millen

36011 cap is for mobile or industrial use where a tighter-than-normal grip is required; self-locking, with snap-button release. *For wire leads. All others are cap type. Av. shpg. wt., 3 oz.

Stock No.	Fig.	Description and Application	Quantity Per Pkg.	NET Per Pkg.
42H 093*	G	Eimac HR-3 heat dissipating cap for 35T, 250TH, etc. .070" hole.	1	.60
42H 096	G	Eimac HR-6 heat dissipating cap for 4-250A, 304B, etc. .359" hole.	1	.80
73H 007	G	Bud TC-487 heat dissipating cap for UH50, HK24, 304H, 829B, 832A, 834, .062" hole.	1	.67
73H 000*	G	Bud TC-488 heat dissipating cap for HK24, 3C24, 24G, 25T, etc. .052" hole.	1	.67
73H 001*	G	Bud TC-489 heat dissipating cap for 35T, HK54, etc. .072" hole.	1	.67
73H 002	G	Bud TC-1920 heat dissipating cap for 100T, 807, 4-125A, 2-150D, 250TH, 4-250A, 6146, 1625, 4032, 807W, 1B3GT, etc. .375" hole.	1	.67
73H 003	G	Bud TC-1921 heat dissipating cap for 866, T125, HF100, 450TH, 750TH, 809, 811, 812, 813, 828, 866, etc. .570" hole.	1	.78
73H 004	G	Bud TC-1924 heat dissipating cap for HK57, 152TH, etc. .125" hole.	1	.71
73H 005	G	Bud TC-1925 heat dissipating cap for 304TH, 304TL, etc. .125" hole.	1	.73
73H 006	G	Bud TC-1928 heat dissipating cap for WL468, WL463, WL460, HF200, HF201, HF300, .810" hole.	1	1.03
72H 082	J	Millen 36011 industrial snap-action plate cap, $\frac{1}{8}$ ".	1	.69
71H 246	J	National SP-9 ceramic-insulated grid and plate cap, $\frac{1}{8}$ ".	1	.24
42H 518	E	National Type 12 grid and plate cap, $\frac{1}{8}$ ".	3	.21
72H 069	K	Millen Type 36002 stellite tube cap, $\frac{3}{8}$ ".	1	.24
72H 140	K	Millen Type 36004 stellite tube cap, $\frac{1}{4}$ ".	1	.24
72H 068	K	Millen 36001 stellite plate cap for 866, etc. $\frac{1}{8}$ ".	1	.24

JFD PISTON-TYPE VARIABLE TRIMMER CAPACITORS



Selection of precision-made glass and quartz trimmer capacitors with spring-loaded piston. Screwdriver adjustment for precision setting. Withstands severe shock and vibration. Ideal for automation and printed circuit applications. Insulation resistance, 10,000 megohms. Dielectric strength, 1500 v. G in Type No. indicates glass; others are quartz. Glass dielectric for operating temperatures up to 125°C.; quartz dielectric for temperatures up to 150°C. #Mounts in .257" round or "D" hole, #.192" "D" hole. #Requires 2 hole mount. *Requires 4 hole mount. With mounting hardware. Shpg. wt., 5 oz.

L Standard Panel-Mount Series. Rugged-constructed. Low-loss, linear tuning. Contain a stainless steel spring and nut that provide compensation for backlash and thread wear.

Stock No.	Type§	Mmf	1-24, EA.	25-99, EA.
16H 005	VC2	0.7-4.5	3.30	2.97
16H 000	VC1	0.5-5	3.20	3.51
16H 001	VC11	1-10	4.50	4.05
16H 006	VC11A	1-10	4.50	4.05
16H 007	VC12	10-20	6.00	5.40
16H 008	VC1G	0.5-8	1.95	1.75
16H 009	VC3G	0.7-8	1.65	1.48
16H 010	VC4G	1-18	1.95	1.75
16H 011	VC5G	1-18	2.25	2.02
16H 012	VC6GA	1-18	1.80	1.62
16H 013	VC6GG	1-18	1.95	1.75
16H 014	VC7G	2-30	2.25	2.02
16H 002	VC11B	0.7-12	2.25	2.02
16H 015	VC11GR	0.7-10	2.10	1.89
16H 016	VC11GRB	0.7-10	1.80	1.62
16H 017	VC11GRG	0.7-10	2.10	1.89
16H 018	VC13GA	1-10	2.00	1.08
16H 004	VC30G	1-30	2.40	2.16
16H 019	VC3G1	0.7-9	1.80	1.62
16H 020	VC6G1	0.8-17	1.95	1.75

M Miniature Panel-Mount Series. Telescoping tuning assembly saves length. Has end stops.

Stock No.	Type†	Mmf	1-24, EA.	25-99, EA.
16H 021	VC20G	0.8-8.5	2.70	2.43
16H 022	VC21G	0.8-4.5	2.70	2.43
16H 023	VC22G	0.7-12	3.30	2.97
16H 024	VC23G	0.8-18	4.45	3.10
16H 025	VC24G	1-30	3.90	3.51

N VC Split Stator Panel Mount Series. For push-pull RF circuits, and similar networks.

Stock No.	Type§	Mmf Max.	Min.	1-24, EA.	25-99, EA.
16H 064	16G	5-5	0.5-0.5	2.40	2.16
16H 065	17G	8.5-8.5	0.6-0.6	2.70	2.43
16H 066	18G	14-14	0.7-0.7	3.00	2.70
16H 067	80	2-2	0.3-0.3	3.90	3.51
16H 068	81	3.2-3.2	0.4-0.4	4.50	4.05
16H 079	82	5.5-5.5	0.5-0.5	5.10	4.59
16H 080	83	11-11	0.8-0.8	7.50	6.75

P Miniature Trimmer Series. For automatic insertion and dip soldering techniques.

Stock No.	Type#	Mmf	1-24, EA.	25-99, EA.
16H 081	VC9G	0.8-8.5	2.40	2.16
16H 082	VC10G	0.8-4.5	2.40	2.16
16H 083	VC31G	0.8-12	3.00	2.90
16H 084	VC32G	0.8-18	3.15	2.83
16H 090	VC42G	1-21	3.30	2.97
16H 091	VC43G	0.8-30	3.60	3.24

R Miniature Printed Circuit Board Series. Four wire leads for more shock resistant mounting.

Stock No.	Type*	Mmf	1-24, EA.	25-99, EA.
16H 092	VC9GG	0.8-8.5	2.40	2.16
16H 093	VC10GG	0.8-4.5	2.40	2.16
16H 094	VC31GG	0.8-12	3.00	2.90
16H 098	VC32GG	0.8-18	3.15	2.83
16H 099	VC42GG	1-21	3.30	2.97
16H 102	VC43GG	0.8-30	3.60	3.24

J. W. MILLER PRINTED CIRCUIT RF CHOKES

High-quality, air-core RF chokes for use on printed circuit boards. Available in a wide range of inductances for transmitters, receivers, test equipment, etc. Printed-circuit type mounting lugs for quick, easy soldering into circuit. Coil forms are $\frac{7}{8}$ " long. Av. shpg. wt., 2 oz.

Stock No.	Type	Mh	Ohms	Ma	Dia.	EACH
60H 610	970	1	17.2	125	1 $\frac{1}{16}$ "	38c
60H 611	971	1.2	19.8	125	2 $\frac{1}{32}$ "	38c
60H 612	972	1.5	21.8	125	3 $\frac{1}{4}$ "	38c
60H 613	973	1.8	24.7	125	3 $\frac{1}{2}$ "	41c
60H 614	974	2.2	27.4	125	2 $\frac{1}{8}$ "	44c
60H 615	975	2.7	31.2	125	1 $\frac{1}{8}$ "	44c
60H 616	976	3.3	34.8	125	1 $\frac{1}{8}$ "	44c
60H 617	977	3.9	38.9	125	2 $\frac{1}{8}$ "	44c
60H 618	978	4.7	43.2	125	3 $\frac{1}{8}$ "	44c
60H 619	979	5.6	48	125	2 $\frac{1}{8}$ "	44c
60H 628	980	6.8	53.6	125	1 $\frac{1}{2}$ "	47c
60H 629	981	8.2	60.8	100	2 $\frac{1}{8}$ "	47c
60H 630	982	10	68	100	7 $\frac{1}{8}$ "	50c
60H 631	983	12	77	100	2 $\frac{1}{2}$ "	50c
60H 632	984	15	87	100	1 $\frac{1}{2}$ "	53c
60H 633	985	18	97.9	100	3 $\frac{1}{8}$ "	53c
60H 634	986	22	108	75	3 $\frac{1}{8}$ "	59c
60H 635	987	27	121	75	1 $\frac{1}{2}$ "	59c
60H 636	988	33	205	75	1 $\frac{1}{2}$ "	65c
60H 637	989	39	231	75	1 $\frac{1}{8}$ "	65c
60H 638	990	47	263	50	2 $\frac{1}{8}$ "	68c
60H 639	991	56	292	50	1 $\frac{1}{2}$ "	71c
60H 641	992	68	326	50	1 $\frac{1}{2}$ "	76c
60H 642	993	82	368	50	1 $\frac{1}{2}$ "	82c
60H 643	994	100	394	50	1 $\frac{1}{8}$ "	88c

AMPHENOL COIL FORMS

Low-loss, phenolite transparent polystyrene coil forms. Excellent for receivers, low-power transmitters, VHF equipment, etc. Plug-in type. The rigidly anchored prongs are spaced to fit Amphenol Series 78S standard miniature sockets (page 189). Coils can be coated after winding with Amphenol "912" cement, listed on page 297. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Description	Size
71 H 723	24-5H	5-Prong Min.	1 $\frac{1}{2}$ x1 $\frac{1}{2}$ "
71 H 712	24-6P	6-Prong Min.	1 $\frac{1}{2}$ x1 $\frac{1}{2}$ "
71 H 713	24-4P	4-Prong Std.	2 $\frac{1}{2}$ x1 $\frac{1}{2}$ "
71 H 714	24-5P	5-Prong Std.	2 $\frac{1}{2}$ x1 $\frac{1}{2}$ "
71 H 724	24-6P	6-Prong Std.	2 $\frac{1}{2}$ x1 $\frac{1}{2}$ "

1-99, NET EACH..... 24c
100-249, EACH..... 20c
250-up, EACH..... 18c

Type No. 24 Coil Form. As above, less prongs. Has hole in center of base for screw mounting. 1 $\frac{1}{2}$ x3 $\frac{1}{4}$ ". Av. shpg. wt., 2 oz.
71 H 712, 1-99, NET EACH..... 9c
100-249, EACH..... 7 $\frac{1}{2}$ c
250-up, EACH..... 7c

CTC SLUG-TUNED COILS

For broadband RF amplifiers, TV traps, HF circuits, etc. Bodies of LS3, LSM and LS4 are HF paper base phenolic; PL55 and PL56 are ceramic. LS3 has larger slug, greater bandpass. LS4 for larger inductance and Q. Tunable from either end; locking nut. LSM, 2 $\frac{1}{2}$ x $\frac{1}{2}$ " dia.; LS3, 1 $\frac{1}{2}$ x $\frac{3}{4}$ " dia.; LS4, 2x $\frac{1}{2}$ " dia.; PL55, 1 $\frac{1}{2}$ x $\frac{1}{2}$ " dia.; PL56, 2 $\frac{1}{2}$ x $\frac{1}{2}$ " dia. With hardware; assembled. Shpg. wt., 4 oz. Write for prices on larger quantities.

Stock No.	Mfr's Type	Description	NET EACH	
			1-49	50-249
72H 294	LS3	Coil Form	52c	44c
72H 295	LS3	1 Mc Coil	78c	75c
72H 296	LS3	5 Mc Coil	74c	71c
72H 297	LS3	10 Mc Coil	71c	69c
72H 298	LS3	30 Mc Coil	70c	68c
72H 299	LS3	60 Mc Coil	70c	68c
72H 282	LSM	Coil Form	52c	44c
72H 283	LSM	1 Mc Coil	78c	75c
72H 284	LSM	5 Mc Coil	74c	71c
72H 293	LSM	10 Mc Coil	71c	69c
72H 286	LSM	30 Mc Coil	70c	68c
72H 287	LSM	60 Mc Coil	70c	68c
72H 288	LS4	Coil Form	68c	58c
72H 289	PL55	Coil Form	61c	49c
72H 292	PL56	Coil Form	56c	45c

AMPEREX VACUUM CAPACITORS

For industrial RF applications. Provide extremely high stability in critical bypass, coupling and neutralizing circuits. Can be used as plate tank capacitor. Break-down voltage of all capacitors rated at 32 KV maximum. Size, 2 $\frac{1}{2}$ x6 $\frac{1}{2}$ ". Av. shpg. wt., 10 oz.

Stock No.	Type	Mmf	NET
42H 075	VC-25	25	23.25
42H 076	VC-50	50	27.50
42H 077	VC-100	100	33.00

Write for quantity prices on 100 or more JFD capacitors

Depend on Allied for Complete Stocks, Lowest Prices, Friendly Service

Millen Components

MINIATURIZED COUPLINGS

For limited space use. M003 is brass. M006 (illustrated) is universal joint style made of nickel plated brass with steatite insulation and spring fingers. M008 is an insulated coupling with brass inserts. 39003 is solid brass for 1/4" shafts; all others are for 1/8" shafts. Av. shgp. wt., 2 oz.



Stock No.	Type	Description	NET
72 H 172	M003	Solid brass coupling	33¢
72 H 170	M006	Univ. joint coupling	75¢
72 H 171	M008	Insulated coupling	51¢
72 H 090	39003	Solid brass coupling	24¢

FLEXIBLE COUPLINGS

Popular 39000 series of flexible couplings. Designed to provide higher flexibility, no backlash, high break-down voltages, smaller diameter and accurate alignment. 39006 for "out-of-line" shaft operation. 39016 has insulating barrier diaphragm. For 1/4" shafts; 3/8" shaft. Av. wt., 2 oz.



Stock No.	Type	Description	E.A.
72 H 034	39001	Insulated universal joint	48¢
72 H 176	39002	Insulated	
72 H 054	39005	Universal joint	
72 H 094	39006	Insulated slide action	
72 H 175	39016	Insulated barrier	
72 H 666	39017	Miniature of 39016	

DRIVE MECHANISMS

Type 10000 Worm Drive. A ruggedly constructed drive mechanism offering a 16-to-1 step-down ratio. Cast-aluminum frame drilled for secure mounting on panel or chassis base. Spring-loaded split gears for smooth operation and minimum backlash. 1/4" left and right-hand shafts. Size, 3x2x2 3/8". Shgp. wt., 2 oz. 72 H 173. NET.....9.75



Type A012 Right-Angle Drive. Compact single-hole bushing mount type drive mechanism. Has 1-to-1 ratio. 1/4" left and right-hand drives can be used together. 1 1/4x1 1/4x3/8". Shgp. wt., 4 oz. 72 H 174. NET.....3.90

MOLDED COIL FORMS

Type 45004. Molded-mica, phenolic base type coil forms. Four-prong type. For shortwave receivers and low-power transmitters. Size, 1" diameter; 1 1/2" winding length; 2 3/8" overall. Shgp. wt., 2 oz. 72 H 124. NET.....51c

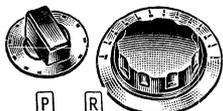
Type 45005. Same as 45004, but has 5 prongs. Shgp. wt., 2 oz. 72 H 125. NET.....51¢

Type 45000. As above, without prongs. Screw mounting. Shgp. wt., 2 oz. 72 H 128. NET.....39¢



INSTRUMENT DIALS

Type 10007. Handsome dial with 0-10 clockwise scale spread over 180°. Lends professional appearance to test instruments, receivers, etc. Black, etched numerals; black knob. Fits 1/4" shaft. 1 3/8" dia. Shgp. wt., 3 oz. 72 H 667. NET.....75¢

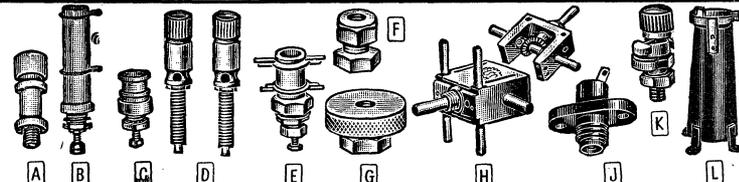
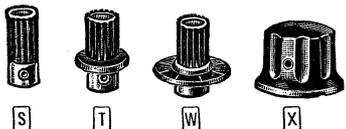


Type 10008. Has a clockwise dial scale with 0-100 calibration, spread over 180°. For instruments, transmitters, etc. Black knob. Fits 1/4" shaft. 3 1/2" dia. Shgp. wt., 4 oz. 72 H 046. NET.....2.40

MINIATURE KNOBS

Black plastic knobs with brass inserts for 1/8" dia. shafts. Overall ht. A006 and A007, 1/2"; A018 and A019, 3/8". Shgp. wt., 4 oz.

No.	Type	Fig.	Size	NET
72 H 271	A006	S	3/8" dial dia.	42¢
72 H 272	A007	T	3/8" dial dia.	42¢
72 H 273	A018	W	3/8" dial dia.	39¢
72 H 274	A019	X	1/4" dial dia.	36¢



"DESIGNED FOR APPLICATION" COMPONENTS Precision Components for Finest Performance

Famous Millen components for use in original equipment and for replacement purposes in existing equipment. Made to exacting specifications to assure extremely dependable service in all industrial, amateur and experimental applications. In all Series 69000 slug-tuned coil forms, copper slug decreases inductance as slug is turned into coil; iron slug increases inductance. Series 80000 CRT bezels have satin-black

finish, neoprene cushions and green lucite filters. Series 37200 binding posts, plates and plugs provide a number of combinations to meet the most varied requirements. For extensive listings of Millen high-quality RF chokes, see page 176. *Items not illustrated. Coil dimensions are winding lengths. Refer to manufacturers' index on page 448 for the many other Millen products listed in this Catalog.

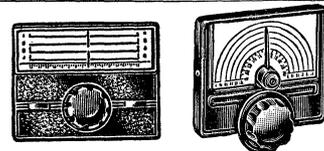
Stock No.	Mfr's Type	Fig.	Description	Wt., Oz.	NET EACH
72 H 085	10012	H	Right Angle Drive.....	5	5.00
72 H 087	10050	K	Dial Lock.....	4	.54
72 H 099	10061	L	Shaft Lock for 3/8" Bushing; 1/4" shafts.....	4	.39
72 H 668	A061	F	Shaft Lock for 1/2" Bushing; 1/4" shafts.....	4	.39
72 H 088	10062	G	Shaft Lock with Knurled Nut.....	4	.54
72 H 036	37001	J	High Voltage Terminal and Thru-Bushing, Red.....	3	.45
72 H 037	37001	J	High Voltage Terminal and Thru-Bushing, Black.....	3	.48
72 H 260	40305	*	5-Prong Steatite Coil Plug.....	3	.69
72 H 261	41305	*	5-Prong Steatite Jack Bar for above.....	3	.84
72 H 057	37202	*	Bakelite Plates (2) for 37222 below, Black.....	2	.36
72 H 138	37212	*	Double Banana Plug, Black.....	3	.78
72 H 059	37222	D	Binding Post, for 37212 above.....	6	.30
72 H 163	37302	*	Steatite Terminal Strip, 2 Terminals.....	3	.75
72 H 165	37304	*	Steatite Terminal Strip, 4 Terminals.....	4	.96
72 H 166	37305	*	Steatite Terminal Strip, 5 Terminals.....	5	1.14
72 H 167	37306	*	Steatite Terminal Strip, 6 Terminals.....	5	1.23
72 H 130	69041	C	Ceramic Slug-tuned Coil Form, 1/2x1 1/2", Copper Slug.....	3	.96
72 H 131	69043	A	Ceramic Slug-tuned Coil Form, 1/2x3/4", Iron Slug.....	3	.84
72 H 084	69045	B	Ceramic Slug-tuned Coil Form, 1/2x1 1/4", Copper Slug.....	3	1.05
72 H 132	69046	B	Ceramic Slug-tuned Coil Form, 1/2x1 1/4", Iron Slug.....	3	1.05
72 H 133	69048	*	Ceramic Slug-tuned Coil Form, 1/2x3/8", Iron Slug.....	3	1.05
72 H 669	69051	E	Ceramic Slug-tuned Coil Form, 3/8x3/8", Copper Slug.....	3	.87
72 H 670	69052	E	Ceramic Slug-tuned Coil Form, 3/8x3/4", Iron Slug.....	3	.87
72 H 671	69055	E	Ceramic Slug-tuned Coil Form, 1/2x1 1/2", Copper Slug.....	3	1.05
72 H 672	69056	E	Ceramic Slug-tuned Coil Form, 1/2x1 1/2", Iron Slug.....	3	1.05
72 H 673	69057	E	Ceramic Slug-tuned Coil Form, 1/2x3/4", Copper Slug.....	3	.87
72 H 674	69058	E	Ceramic Slug-tuned Coil Form, 1/2x3/8", Iron Slug.....	3	.87
72 H 675	69061	E	Ceramic Slug-tuned Coil Form, 3/8x3/4", Copper Slug.....	3	.90
72 H 676	69062	E	Ceramic Slug-tuned Coil Form, 3/8x3/4", Iron Slug.....	3	.90
72 H 150	80042	L	Nicoloi Shield for 2API and 2BP1 2" CR Tubes.....	10	6.63
72 H 151	80043	L	Nicoloi Shield for use with either 3AP1 or 3BP1 3" CR Tubes.....	10	7.62
72 H 177	80055	*	Nicoloi Shield for 5CP1.....	12	13.41
72 H 153	80072	*	Bezel, Cushion and Filter for 2" CR Tube.....	4	1.80
72 H 154	80073	*	Bezel, Cushion and Filter for 3" CR Tube.....	5	4.35
72 H 155	80075	*	Bezel, Cushion and Filter for 5" CR Tube.....	7	8.40

VARIABLE CAPACITORS

Series 20000 Ultra-Midgets. Top-quality, steatite-insulated variables. All are single-bearing type with .015" air gap (rated 600 volts peak), except *double-bearing type with .045" air gap (rated 1400 volts peak). All have 1/4" round shaps, 1" long, 5/8" 32 thread in. Av. shgp. wt., 5 oz.



Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	Overall Length	NET EACH
72 H 030	20015	20	2.8	1 29/32"	1.77
72 H 042	20025	28.5	3.0	2 1/2"	1.86
72 H 034	20050	56	3.5	2 5/8"	2.04
72 H 033	20100	111	5.2	2 3/4"	2.43
72 H 045	21935*	39.5	6.7	3 3/8"	4.08



MULTI-SCALE DIALS

Type 10035 Multi-Scale Dial. A deluxe-type illuminated slide-rule dial. Ideal for home-built amateur receivers, VFO's, etc. Two built-in pilot lights provide even illumination over dial. Unit is self-contained. Large finger-grip knob control. Has 12 to 1 drive ratio. Has 4 blank scales for calibration and one 0-100 logging scale. Cardboard scale supplied can be used on both sides. Clear plastic dial window. Ample panel space provides room for 2 small controls. Size, 8 1/2x6 1/2". Black finish. Shgp. wt., 2 1/2 lbs. 72 H 123. NET.....7.26

Type 10039 Midget Panel Dial. Economy model. Excellent for small transmitters, receivers and measurement equipment. Drive ratio is 8 to 1. Totally self-contained mechanism eliminates back-of-panel interference; quick, easy installation. Compact design. Comfortable, finger-grip knob. Has 5 blank scales for calibration and one 0-100 logging scale. Attractive black finish. Size, 4x3 1/4". Shgp. wt., 13 oz. 72 H 050. NET.....3.24

33087 TUBE BASE CLAMPS

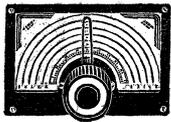
Sturdily made, polished spring steel tube base clamps. Hold tubes in sockets and protect against damage from sudden jarring and shock. Excellent for use in mobile equipment and for reducing vibration of oscillator tubes. 2 each



Stock No.	Type	Diameter	EACH
72 H 178	33087A	1.125"	36¢
72 H 179	33087B	1.165"	
72 H 180	33087C	1.250"	
72 H 181	33087D	1.275"	
72 H 182	33087E	1.375"	
72 H 183	33087F	1.156"	
72 H 184	33087I	1.000"	

National Components

CALIBRATED AND UNCALIBRATED DIALS



ACN



ICN



MCN

VERNIER DIALS FOR INDIVIDUAL CALIBRATION

Popular blank dials featuring famous "Velvet Vernier" with 5:1 drive ratio. Pointers have center hairlines and pinholes for accurate calibration of each scale. Black-wrinkle clear-view plastic windows. With instructions, extra scales, hardware, and hub for 1/4" shafts.

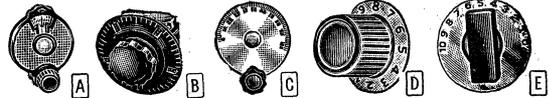
Type ACN. The famous original of this type with smart styling. Large-size vernier dial for easy direct calibration and high legibility. Knob has bright chrome insert. 5" high, 7 1/4" wide. Shpg. wt., 1 1/4 lbs. **71 H 090. NET..... 7.04**

Type SCN. Vernier dial same as above but intermediate in size. 4 7/8" high, 6 1/4" wide. Ideal for use where space is limited. Shpg. wt., 1 lb. **71 H 088. NET..... 6.47**

Type ICN. Similar to above but has large, illuminated vernier dial, 5 1/2" high, 7 1/4" wide. Lights in upper corners. With standard bayonet sockets and mounting screws. Less lamps. Shpg. wt., 1 1/4 lbs. **71 H 087. NET..... 6.90**

Type MCN. Small size vernier dial. Similar to above but not illuminated. Only 2 3/4" high, 3 3/4" wide. Perfect for mobile gear and other small units. Mechanism extends 1/4" below frame. Shpg. wt., 10 oz. **71 H 089. NET..... 3.99**

Type AN Vernier Dial Drive Mechanism. (Not illus.) Smooth operating dial drive with 5 to 1 ratio. Same as used in above dial assemblies. Has 3/8" drive shaft and output hub for coupling to 1/4" shafts. 2 1/2" diameter by 1 1/2" overall. Shpg. wt., 12 oz. **71 H 064. NET..... 3.02**



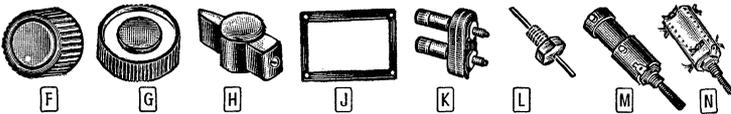
CALIBRATED DIALS

Famous National dials for smooth performance and dependability. Recommended for all types of equipment. We can supply any National dial promptly—specify type number for models not listed. †Gray, ‡Black

Stock No.	Mfr's Type	Fig.	Ratio	Scale	Dia.	Wt. Oz.	NET EACH
71 H 072	AM-2	....	5:1	0-100; 180°	3"	10	3.93
71 H 073	AM-3	....	5:1	100-0; 180°	3"	10	3.93
71 H 076	AM-4	....	5:1	150-0; 270°	3"	10	3.93
71 H 077	AM-5	....	5:1	200-0; 360°	3"	10	3.93
71 H 078	AM-6	....	5:1	0-150; 270°	3"	10	3.93
71 H 067	BM-1	A	Fixed	0-100-0; 160°	3"	10	4.88
71 H 068	BM-2	A	Fixed	0-100; 180°	3"	10	4.64
71 H 069	BM-5	A	Fixed	200-0; 360°	3"	10	4.64
71 H 063	N-5	....	5:1	200-0; 360°	4"	12	7.50
71 H 091	K	....	5:1	0-100; 180°	3 1/2"	12	1.73
71 H 058	HRS-3§	D	Fixed	0-10; 300°	1 7/8"	2	.58
71 H 059	HRS-3†	D	Fixed	0-10; 300°	1 7/8"	2	.58
71 H 218	HRS-4§	D	Fixed	1-line; 300°	1 7/8"	2	.58
71 H 19	HRS-4†	D	Fixed	1-line; 300°	1 7/8"	2	.58
71 H 082	O	B	Fixed	0-100; 180°	3 1/2"	4	2.85
71 H 070	R	E	Fixed	0-10; 180°	1 5/8"	2	.69

Type ODD Pinch Drive Mechanism. For Type O dial above. Same as used on "K" dial (Fig. C). With knob. 1 1/2"x3/4". Shpg. wt., 2 oz. **71 H 085. NET..... 48c**

Type NPW-O Precision Gear Drive. Ruggedly constructed, gear-driven, precision dial mechanism featuring accuracy to one part in 500. Offers smooth control and high reset accuracy. Dial finished in black with white numerals. Diameter, 4 1/2". Shpg. wt., 3 lbs. **71 H 083. NET..... 20.45**



EQUIPMENT DESIGN COMPONENTS

Stock No.	Mfr's Type	Fig.	Description	1-24, EACH	25 or More, EACH
71 H 167	FWA	....	Binding Post. Takes wire, lugs, etc.	.42	.37
71 H 166	FWC	....	Insulator for FWA. Mica-Bakelite. (Pr.)	.60	.54
71 H 173	FWJ	K	Terminal Strip—Binding Post	1.10	.99
71 H 176	FWH	....	Terminal Strip—As FWH, for jacks only	.77	.78
71 H 157	FWT	....	Plug for FWH and FWJ terminal strips.	1.56	1.40
71 H 208	HR	F	Knob, Black, HRS Type; white dot.	.35	.31
71 H 209	HR	F	Knob, Gray; same as above.	.35	.31
71 H 204	HRB	H	Lever Knob; bright zinc alloy.	.52	.47
71 H 086	HRK	....	Knob, Black, 2 3/8" dia. Set screw; for 1/4"	.66	.59
71 H 071	HRP-P	....	Bar knob with pointer. 1 1/4"x1/2"	.28	.24
71 H 056	HRT	G	Knob, Black; chrome trim. 2 1/8" dia.	.86	.77
71 H 057	HRT	G	Knob, Gray; chrome trim. As above.	.86	.77
71 H 242	CFA	J	Chart frame; 1/8" steel; 2 1/4"x3 3/4"	.40	.36
71 H 199	OSR	L	100 kc. Osc. Coil. For superregens.	2.07	1.86
71 H 16	TPB	....	Threaded Polystyrene Bushing.	.07	.06
71 H 228	XR-50	M	Coil Form, iron-slug tuned. Mica-bakelite	1.04	.93
71 H 229	XR-60	N	Coil Form, iron-slug tuned. Ceramic	1.32	1.19
71 H 241	XR-62	N	Coil Form, iron-slug tuned. Ceramic	1.32	1.19
71 H 239	XR-91	N	Coil Form, iron-slug tuned. Ceramic	.87	.78
71 H 122	XS-6	....	Steatite Bushing.	.14	.13

TRANSMITTING CAPACITORS



Compact, rigid construction. Steatite insulation. Provisions for panel, chassis or standoff insulator mounting. Air Gap and Peak Voltage: TMS types, .026", 1000 volts; TMC types, .077", 3000 volts; ST types, .026", 1000 volts except .018", 600 volts. Lengths: *3"; †3" to 6"; §4 3/8" to 9 1/4", 180° rotation. Wt., 1 lb.

TYPE TMS—SINGLE STATOR*

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	NET EACH
71 H 000	TMS-100	100	9.5	5.48
71 H 001	TMS-150	150	11	6.02
71 H 002	TMS-250	250	13.5	6.50
71 H 003	TMS-300	300	15	6.81

TYPE TMS—DOUBLE STATOR*

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	NET EACH
71 H 004	TMS-50D	50-50	6-6	6.09
71 H 005	TMS-100D	100-100	7-7	6.05
71 H 013	TMS-125D	125-125	8-8	7.50

TYPE TMC—SINGLE STATOR†

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	NET EACH
71 H 015	TMC-50	50	10	7.17
71 H 016	TMC-100	100	13	8.61
71 H 017	TMC-150	150	17	9.23
71 H 018	TMC-250	250	23	13.11

TYPE TMC—DOUBLE STATOR§

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	NET EACH
71 H 020	TMC-50D	50-50	9-9	5.64
71 H 021	TMC-100D	100-100	11-11	11.61
71 H 022	TMC-200D	200-200	18.5-18.5	18.66

TYPE ST—SINGLE BEARING*

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	NET EACH
71 H 030	STHS-15†	15	3	3.09
71 H 031	STHS-25†	25	3.25	3.20
71 H 032	STHS-30†	30	3.5	3.24

TYPE ST—DOUBLE BEARING*

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	NET EACH
71 H 033	ST-35	35	6	4.65
71 H 034	ST-50	50	7	4.83
71 H 035	ST-75	75	8	5.34
71 H 036	ST-100	100	9	4.88
71 H 037	ST-140	140	10	6.51
71 H 038	ST-150	150	10.5	7.28
71 H 039	STH-200†	200	12	5.79
71 H 040	STH-250†	250	13.5	5.99
71 H 041	STH-300†	300	15	7.62
71 H 042	STH-335†	335	17	7.01

ST—SPLIT STATOR DOUBLE BEARING*

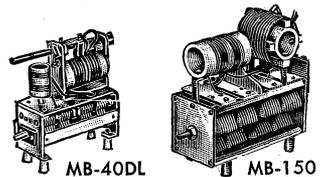
Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	NET EACH
71 H 043	STD-50	50-50	5-5	7.50
71 H 044	STDH-100†	100-100	5.5-5.5	6.21

FRONT PANEL RIGHT-ANGLE DRIVE

Type RAD. Front panel control for variable capacitors, potentiometers, etc., at right angles to panel. Saves space by permitting greater freedom in parts layout. May be used to drive two units. Die-cast zinc housing and gears. 1 1/2"x1 1/2"; 2 1/2"x1/4" shaft. 6 oz. **71 H 014. NET..... 4.31**

Type PRAD. As above but deluxe precision model with brass gears. Backlash less than 1 1/2%. 1/4" shaft is 2 1/2" long. Wt., 3 oz. **71 H 247. NET..... 11.31**

MULTI-BAND TANK ASSEMBLIES



Type MB-150. Tunes all frequencies from 80 through 10 meters with no coil change. Constant 1/C ratio maintained on all bands. Rated at 150 watts; handles 1500 v. peaks. Consists of 3 coils, 4-gang tank condenser, RF choke. For balanced or single-ended amplifiers. Size, 8 1/4"x3 3/8". Shpg. wt., 4 lbs. **71 H 046. NET..... 21.56**

Type MB-40DL. Low-power version of MB-150 tank above. Excellent for final tank in low-power transmitters or for grid circuit in transmitter using MB-150 in final. Has same frequency coverage. Shielded swinging link minimizes harmonics. Handles up to 40 watts with output link loaded; 20 watts no load. Size, 5 1/2"x2 1/4"x6 1/4". Shpg. wt., 1 1/4 lbs. **71 H 045. NET..... 17.75**

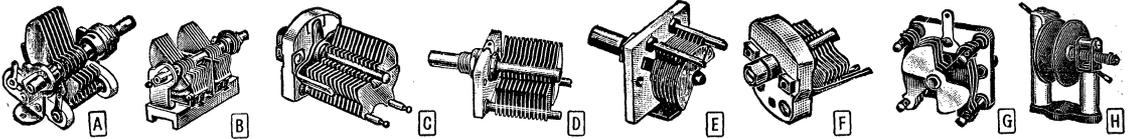
UM MINIATURE CAPACITORS

180° rotation. Straight-line-capacity plates. .017" air gap, 600 v. peak. 1/4" dia. shafts; protrude for ganging. Low minimum capacity. Ceramic base for 4-hole mounting or single 3/8" hole. 1x2 1/4"x2 3/8". Wt., 5 oz.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	NET EACH
71 H 275	UM-15	15	1.5	1.17
71 H 276	UM-35	35	2.5	1.32
71 H 277	UM-50	50	3	1.43
71 H 278	UM-75	75	3.5	1.67
71 H 279	UM-100	100	4.5	1.84

Variable Capacitors

HAMMARLUND CAPACITORS FOR AMATEUR, INDUSTRIAL AND MILITARY USE



TYPE MC

A Siliconized steatite base, nickel-plated brass plates. Panel or chassis mounting. *Straight-line capacity characteristic; others have mid-line capacity characteristic. Air gap: M and S types, .0245"; MX and SX types, .0715". Tested at 1000 v. and 1750 v. (60 cycle rms) respectively. Capacity increases with clockwise rotation. All capacitors have rotor stop. Shpg. wt., 10 oz.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	NET EACH
72 H 425	*MC-20-S	20	5.5	2.64
72 H 426	*MC-35-S	35	6.0	2.79
72 H 427	*MC-50-S	50	6.5	2.88
72 H 428	MC-50-M	50	6.3	2.88
72 H 429	*MC-75-S	80	8.0	3.06
72 H 430	MC-75-M	80	7.3	3.06
72 H 431	*MC-100-S	100	8.3	3.15
72 H 432	MC-100-M	100	7.7	3.15
72 H 433	MC-140-M	140	9.0	3.39
72 H 434	*MC-140-S	140	10.0	3.39
72 H 435	MC-200-M	200	10.3	3.63
72 H 436	MC-250-M	250	12.0	3.87
72 H 437	MC-325-M	320	13.5	4.23

DOUBLE-SPACED MC's

72 H 451	*MC-20-SX	20	6.8	2.97
72 H 452	*MC-35-SX	32	8.5	3.29
72 H 453	MC-35-MX	32	7.8	2.97
72 H 454	*MC-50-SX	53	11.5	3.15
72 H 455	MC-50-MX	53	10.5	3.15
72 H 456	*MC-100-SX	100	16.5	3.93

TYPE MCD DUALS

B Panel-mount type. Steatite base; nickel-plated brass plates. Tested at 1000 v. *Straightline capacity characteristic; others mid-line capacity characteristic. Shpg. wt., 11 oz.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	NET EACH
72 H 465	MCD-50-M	50	5.5	4.44
72 H 466	MCD-100-M	100	6.3	4.89
72 H 467	*MCD-100-S	100	7.0	4.89
72 H 468	MCD-140-M	140	7.8	5.28

DOUBLE-SPACED DUALS

72 H 469	MCD-35-MX	31	6.0	4.62
72 H 470	*MCD-35-SX	31	6.8	4.62

E. F. JOHNSON CAPACITORS



MINIATURE VARIABLES

For VHF and UHF use. Low-loss steatite insulation. Mount in 1/4" panel hole; 3/4x3/8" panel mtg. space. Slotted shaft takes 3/64" knob. 1250 volts approximate peak break-down. Nickel-plated. Av. shpg. wt., 2 oz.

J SINGLE

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	No. of Plates	NET EACH
75 H 175	5M11	5.0	1.5	5	1.00
75 H 176	9M11	8.7	1.8	9	1.05
75 H 177	15M11	14.2	2.3	15	1.20
75 H 178	20M11	19.6	2.7	21	1.35

K BUTTERFLY

75 H 179	3MB11	3.1	1.5	5	1.40
75 H 180	5MB11	5.1	1.8	9	1.60
75 H 181	9MB11	8.0	2.2	16	1.80
75 H 182	11MB11	10.8	2.7	22	2.00

TYPE "R" VARIABLES

L For transmitting and receiving. Have .024" airgap; .023" plates. Av. shpg. wt., 1 lb.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	No. of Plates	NET EACH
75 H 053	20R12	20	5	3	2.25
75 H 054	35R12	35	6	5	2.35
75 H 055	50R12	50	6.5	7	2.45
75 H 056	75R12	80	8	11	2.60
75 H 057	100R12	102	8.5	14	2.75
75 H 058	140R12	140	13.5	19	2.95

TYPE MAPC

C Midget padding, trimming and general-purpose capacitors. Similar to APC, but smaller. Ideal for small space applications. Gap, .0135". Rotors and stators are nickel-plated brass. Nickel-plated beryllium copper wiper contact. Tapped (4-40 thread) brass studs in steatite base permit mounting without grounding rotor. Tested at 600 volts rms, 60 cps. Overall size: 2 1/2" wide, 1 1/2" high. All units listed below have slotted shafts for screwdriver or hex wrench. Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	NET EACH
72 H 208	MAPC-15	15	2.3	1.17
72 H 209	MAPC-25	25	2.6	1.20
72 H 210	MAPC-35	35	2.9	1.23
72 H 211	MAPC-50	50	3.2	1.32
72 H 212	MAPC-75	75	3.9	1.44
72 H 213	MAPC-100	100	4.5	1.71

TYPE HFA

D Sturdy capacitors, similar to HF, but larger plates and wider air gaps. For general-purpose and transmitting applications. Single-hole panel mounting. Also bracket for base mounting. End letter A type no. denotes .02" air gap, B—.03", E—.07"; 800, 1200 and 1750 test volts respectively. Shpg. wt., 1 lb.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	NET EACH
72 H 224	HFA-10B	9	2.3	1.92
72 H 225	HFA-15B	16	2.8	1.98
72 H 229	HFA-15E	16	4.0	2.13
72 H 226	HFA-25B	25	3.0	2.07
72 H 227	HFA-50B	50	4.3	2.25
72 H 228	HFA-100B	100	7.5	3.18
72 H 222	HFA-100A	102	4.5	2.37
72 H 223	HFA-140A	145	6.0	2.79

TYPE MAC

(Not illustrated.) Extremely small variable capacitors. Excellent for use as VHF trimmers. Steatite base; only 3/4x3/8". Screwdriver adjustment. Have threaded sleeve for convenient panel mounting. Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	NET EACH
72 H 255	MAC-5	5.0	1.4	1.14
72 H 256	MAC-10	8.7	1.7	1.17
72 H 257	MAC-15	14.2	2.2	1.23
72 H 258	MAC-20	19.6	2.7	1.32

TYPE HF

E Ideal for tuning or trimming critical high-frequency circuits. Isolantite insulation *Double-spaced units. Shpg. wt., 6 oz.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	NET EACH
72 H 215	HF-15	17.5	2.8	1.26
72 H 216	HF-25	36	3.1	1.29
72 H 217	HF-50	52	3.7	1.32
72 H 218	HF-100	102	5.3	1.53
72 H 219	HF-140	142	6.3	1.80
72 H 220	*HF-15-X	15	3.6	1.35
72 H 221	*HF-30-X	30	5.2	1.47

HFD SPLIT-STATOR

72 H 230	HFD-50	52	3.6	3.63
72 H 231	HFD-100	102	5.0	4.17
72 H 232	HFD-140	142	6.0	4.62
72 H 233	HF-15-X	16	3.8	3.57
72 H 234	*HFD-30-X	28.5	5.0	3.96

TYPE APC

F Compact high-quality variables. Isolantite base. Screwdriver or hex-wrench adjustment. Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	NET EACH
72 H 250	APC-25	25	3.0	1.17
72 H 251	APC-50	50	3.9	1.23
72 H 252	APC-75	75	4.6	1.32
72 H 253	APC-100	100	5.5	1.44
72 H 254	APC-140	140	6.7	1.71

BFC BUTTERFLY TYPES

G Straight-line capacity type; 90° minimum to maximum. Spacing .03". Tested at 1200 v. rms., 60 cycles between rotor and each stator. Tapped (6-32 thread) studs in steatite base permit mounting capacitor without grounding the rotor. Silver contact. Shpg. wt., 1 lb.

Stock No.	Type	Max. Mmf	Min. Mmf	NET EACH
72 H 262	BFC-12	14.5	3.4	1.65
72 H 263	BFC-25	27.3	4.8	1.86
72 H 264	BFC-38	40.1	6.2	2.19

NEUTRALIZING CAPACITOR

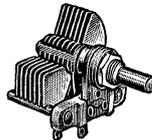
H Type N Z-10. Rated, 3000 v. AC peak. Fine adjustment. Capacity, 2.3-10 mmf. 2 1/2" x 1 1/2" x 2 1/8". Shpg. wt., 1 lb.

72 H 249. NET..... 3.48

BUD VARIABLE CAPACITORS

"MC" MIDGETS

Sturdy, highly efficient midget variables. Single and double-bearing types; *double fit. 3/8" diameter mounting hole. 3/8" Cadmium-plated brass rotor and stator plates. Steatite insulation. .024" air-gap. Shpg. wt., 7oz.



Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	No. of Plates	NET EACH
61 H 142	1850*	15	3	3	1.78
61 H 143	1852*	33	4	5	1.84
61 H 144	1853*	50	5	7	2.43
61 H 145	1855*	100	7	14	2.65
61 H 146	1856*	140	7	19	2.72
61 H 147	1858*	190	9	27	3.64
61 H 148	1859*	335	10	33	3.38
61 H 149	1860*	300	12	43	3.67
61 H 150	1870	15	3	3	1.76
61 H 151	1872	33	4	5	1.84
61 H 152	1873	50	5	7	1.91
61 H 154	1875	100	7	14	2.06
61 H 155	1876	140	8	19	2.35

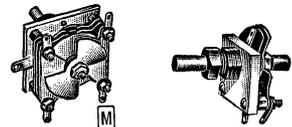
MIDGET TRIMMERS

Type MT-833. For antenna coupling, interstage coupling and receiver tracking applications. Maximum capacity, 36 mmf.; minimum capacity, 3 mmf. Has ceramic base. Shpg. wt., 4 oz.



60 H 335. NET..... 15c
Type MT-828. As above, but has maximum capacity of 420 mmf.; minimum, 94 mmf. With ceramic base. Shpg. wt., 4 oz.
60 H 334. NET..... 29c

CARDWELL CAPACITORS



VHF BUTTERFLY CAPACITORS

M 90° capacitors with butterfly rotor plates. Electrical symmetry; low inductance; no moving contacts. Isolantite insulation. Removable plates. Air gap, .030". Shpg. wt., 10 oz.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	NET EACH
75 H 001	PL-6076	5	1.5	1.73
75 H 002	PL-6077	7	2.0	1.81
75 H 003	PL-6078	13	3.0	2.64
75 H 004	PL-6113	13	10.4	2.06

TRIM-AIR MIDGETS

N Universal mounting. Isolantite insulation. Shaft has rear extension for ganging; except *. Air gap, .02"; others .03". Shpg. wt., 7 oz.

Stock No.	Mfr's Type	Max. Mmf	Min. Mmf	NET EACH
75 H 010	PL-6000	10	1.2	1.20
75 H 011	PL-6001	15	1.5	1.58
75 H 012	PL-6002	25	2.0	1.80
75 H 013	PL-6003	35	2.5	2.03
75 H 014	PL-6004	50	2.8	2.18
75 H 015	PL-6016*	75	2.7	1.89
75 H 016	PL-6017	100	3.0	2.48
75 H 017	PL-6018*	140	5.0	3.45

Coils, Capacitors & Accessories

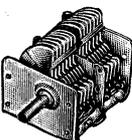
RECEIVER-TYPE VARIABLE CAPACITORS

TRF TYPE CAPACITORS



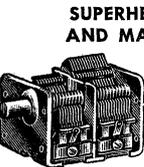
2-Gang. For use in superhets without RF stage or in 2-stage TRF receivers. Each section has 29 plates. Range of 15.5 to 407.8 mmf, each section. Counter-clockwise rotation increases capacity. With trimmers for each section. End plates slotted to permit easy tracking adjustments. Spring brass wipers. Requires series padder for oscillator use. Has 3/8" diameter shaft. Use with shaft extender Stock No. 60 H 366 (at center, below) for conversion to 1/4" shaft. See pages 177 to 179 for coils. Size: 1 1/2"x1 1/4"x2 3/8". Shpg. wt., 10 oz.

61 H 059, 1 to 9, EACH... 1.08
10-49, EACH... 97¢ 50-99, EACH... 90¢



2- and 3-Gang Capacitors. Compact TRF variable capacitors. Have trimmer for ease of adjustment. Outer rotor plates are slotted for tracking adjustment. Tapped holes in frame provide secure mounting. Range: 12 to 367 mmf. Shaft diameter, 3/8". Size: 2-gang, 2 1/2"x1 1/4"x1 3/8". 3-gang, 3 1/2"x1 1/4"x1 3/8". Av. shpg. wt., 6 oz.

60 H 725, 2-gang, 1 to 9, EACH... 1.04
10-49, EACH... 94¢ 50-99, EACH... 86¢
60 H 726, 3-gang, 1 to 9, EACH... 1.60
10-49, EACH... 1.44 50-99, EACH... 1.33



SUPERHET CAPACITOR AND MATCHING COILS

Two-Section Superhet Variable. 19-plate oscillator section with 172.6 max.—10.6 min. mmf.; has one 2-17 mmf. trimmer. 27-plate RF section with 434 max.—14.5 min. mmf.; has one 2-17 mmf. trimmer. Provides 455 kc frequency difference in combination with oscillator coil and loop antenna, below. Capacitors in counter-clockwise direction. 1 1/2"x1 1/4"x2 3/8". Shaft, 1/4" diameter, 3/4" long. Shpg. wt., 10 oz.

61 H 065, 1 to 9, EACH... 1.02
10-49, EACH... 92¢ 50-99, EACH... 85¢

Oscillator Coil for Above. Shpg. wt., 4 oz.

55 H 507, NET... 36¢

Loop Antenna for Above. Shpg. wt., 8 oz.

51 C 040, NET... 53¢



MIDGET SUPERHET AND TRF TYPES

Midget Superhet. Miniature size without sacrifice of performance makes these 2-gang variables perfect for portable and midget sets. Capacity: RF section, 14.5 to 368 mmf, 27 plates; osc. section, 11.6 to 136.6 mmf, 15 plates. Capacity increases with counter-clockwise rotation. For use with 455 kc IF with trimmers. Size, 1 1/4"x1 1/2"x1 3/8". 1/4" diameter shaft extends 1/4" beyond frame. Ball-bearing mounted shaft. Shpg. wt., 6 oz.

61 H 008, 1 to 9, EACH... 1.01
10-49, EACH... 84¢ 50-99, EACH... 85¢

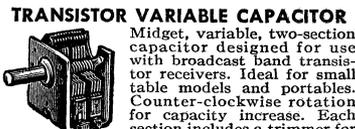
61 H 011, Smaller version of above. RF sec., 10.8 mmf to 232.4 mmf. Osc. sec., 8.5 mmf to 106.3 mmf. 1 1/4"x1 1/2"x1 3/8". Shpg. wt., 5 oz.

1 to 9, EACH... 92¢
10-49, EACH... 83¢ 50-99, EACH... 76¢



Midget TRF. 33-plate, single-gang variable capacitor. Variable from 15 to 409 mmf. Capacity increases clockwise. Size: 1 3/4" deep, 1 3/8" wide, 1 1/2" high. 1/4" diameter shaft extends 3/4" beyond frame. Shpg. wt., 5 oz.

61 H 009, 1 to 9, EACH... 73¢
10-49, EACH... 66¢ 50-99, EACH... 61¢



TRANSISTOR VARIABLE CAPACITOR

Midget, variable, two-section capacitor designed for use with broadcast band transistor receivers. Ideal for small table models and portables. Counter-clockwise rotation for capacity increase. Each section includes a trimmer for precise adjustment. Oscillator section designed for 455-kc IF. Oscillator capacity: 7.2 to 60 mmf. Antenna section capacity: 7.5 to 81 mmf. Shaft diameter 1/4". Size: 1 3/8"x1 1/2"x1 3/8". Shpg. wt., 4 oz.

61 H 012, 1 to 9, EACH... 96¢
10-49, EACH... 86¢ 50-99, EACH... 80¢

Write for quantity prices on 100 or more capacitors

TRIMMERS AND PADDERS



Mica trimmer and padder capacitors. Treated to assure resistance to humidity and permanence of capacity settings. Low-loss ceramic base. Clear India mica. The adjusting plates have been rigidly constructed to permit bending soldering lugs without affecting capacity. Size, 1 1/2"x3/4"x3/8". Mtg. ctrs., 1/2". Ranges indicated below are mmf., from 3 turns open trimmer to tight setting. Av. shpg. wt., 2 oz.

Stock No.	Mmf	NET EACH		
		1-9	10-49	50-99
60 H 347	1.5-15	12¢	11¢	10¢
60 H 340	2-30	12¢	11¢	10¢
60 H 341	4-80	12¢	11¢	10¢
60 H 342	9-180	14¢	13¢	12¢
60 H 343	25-280	15¢	13¢	12¢
60 H 344	45-380	17¢	15¢	13¢
60 H 345	70-480	19¢	17¢	15¢
60 H 346	100-580	23¢	20¢	18¢
60 H 348	140-680	24¢	21¢	19¢
60 H 349	170-780	27¢	24¢	22¢

Write for Prices on Larger Quantities

PANEL BEARING ASSEMBLY



For use with rigid or flexible couplings for mounting volume controls, etc., away from the panel. Made of brass. Take panels up to 3/8" thick. Size of standard 1/4" shafts. Supplied with 2 fiber insulating washers. Shpg. wt., 3 oz.

60 H 385, Overall length 3". NET... 32¢
60 H 386, Overall length 6". NET... 38¢
60 H 390, Bearing only. NET... 9¢

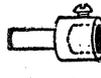
E. F. JOHNSON FLEXIBLE SHAFTS

Non-rusting phosphor-bronze flexible shafts with 1/4" hubs. Ideal for connecting out-of-line shafts together. Handy accessory for amateurs, experimenters, labs, etc. Permit up to 90 degrees angular control. Shpg. wt., 2 oz.

73 H 290, 115-263. Length 3". NET... 50¢
73 H 291, 115-254. Length 6". NET... 75¢



SHAFT FITTINGS



Extender

Couplings for extending shafts of volume controls, switches, condensers, etc., or for ganging single units, even when shafts are not of the same diameter. Available in insulated and non-insulated types. Insulated types are made of black phenolic. Extenders for decreasing or increasing shaft diameter and for extending shaft length. 60 H 366 has 3/8" opening, 1/4" shaft. Shaft length on all extenders, 3/8"; overall length, 1 1/8". Av. shpg. wt., 4 oz.

Brass	Insulated	Kind	Size
60 H 360	60 H 350	Coupling	1/4 to 1/4"
60 H 361	60 H 351	Coupling	3/8 to 3/8"
60 H 362	60 H 352	Coupling	1/2 to 3/8"
60 H 365	60 H 355	Ext.	1/4 to 1/2"
60 H 366	60 H 356	Ext.	3/8 to 1/2"

1 to 9, EACH... 16¢
10 to 49, EACH... 14¢

Write for prices on larger quantities.

HAMMARLUND COUPLINGS



Type FC-46S. Insulated coupling. Excellent for providing flexible linkage between angularly misaligned shafts. Maximum torque is limited only by holding power of the set screws. For 1/4"-dia. shafts. Shaft clearance, 3/32". Flash voltage, 6000 v. Size, 1 1/4"x1 3/8". Shpg. wt., 3 oz.

72 H 496, NET... 1.25

Type FNC-46S. As above, but non-insulated type. Has durable, plated-metal construction. 1 1/4"x2 3/8". Shpg. wt., 3 oz.

72 H 497, NET... 1.13

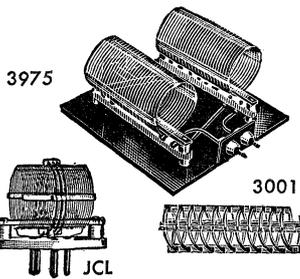


INSULATED COUPLING

For coupling drive shafts to condensers, gang switches, etc. Bakelite insulation. Hubs drilled to fit 1/4" shafts; set-screws hold rigidly. Shpg. wt., 2 oz.

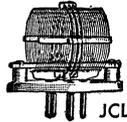
60 H 395, NET... 53¢

B&W AMATEUR COILS



3975

3001



A wide selection of rugged, efficient and inexpensive RF coils covering amateur bands from 160 through 10 meters. Ideal for use in low-power final amplifiers, exciters, buffer and oscillator stages, etc. Low-loss steatite bases fit standard 5-prong tube sockets. Polystyrene coil supports for high RF insulation.

75 WATT "JUNIOR" COILS

Rated, 75 watts—850 DC volts. Tune with 15 mmf to 100 mmf. Supplied in fixed-end (JEL), fixed-center (JCL) or variable-center (JVL) link types. All fit standard 5-prong tube sockets. 3 1/2"x1 1/2". Shpg. wt., 5 oz.

Band	JEL	JCL	JVL	EACH
160	75 H 320	75 H 330	75 H 340	1.86
80	75 H 321	75 H 331	75 H 341	
40	75 H 322	75 H 332	75 H 342	
20	75 H 323	75 H 333	75 H 343	1.86
15	75 H 324	75 H 334	75 H 344	
10	75 H 329	75 H 339	75 H 349	
6	75 H 444	75 H 445	75 H 446	

25 WATT "BABY" PLUG-IN COILS

Very compact coils for exciters and low-power transmitters. Only 1 1/4"x1 1/2". MC—center tap, no link. MEL—end link. MCL—center link. Tune with 50 mmf (except 100 mmf for 160M). Fit standard 5-prong sockets. Wt., 3 oz.

Band	MC	MEL	MCL	EACH
160	75 H 380	75 H 300	75 H 310	1.47
80	75 H 359	75 H 301	75 H 311	
40	75 H 370	75 H 302	75 H 312	
20	75 H 371	75 H 303	75 H 313	1.47
15	75 H 358	75 H 357	75 H 356	
10	75 H 372	75 H 304	75 H 314	

MINIDUCTOR COIL STOCK

Easily-cut, polystyrene-supported, air-wound coils. High Q values. Ideal for high frequency circuits in compact mobile and portable rigs. Standard lengths can be cut to specific needs. Use for tank coils, IF transformers, loading coils, etc. 1" dia. coils are 3" long, all others, 2". Av. shpg. wt., 5 oz.

4 Turns Per Inch				8 Turns Per Inch			
Dia.	No.	Type	Net	No.	Type	Net	Net
3/8"	75 H 305	3001	45¢	75 H 306	3002	45¢	45¢
3/8"	75 H 309	3005	54¢	75 H 316	3006	54¢	54¢
3/8"	75 H 319	3009	63¢	75 H 325	3010	63¢	63¢
1"	75 H 328	3013	69¢	75 H 329	3014	69¢	69¢
16 Turns Per Inch				32 Turns Per Inch			
1/2"	75 H 307	3003	45¢	75 H 308	3004	45¢	45¢
3/8"	75 H 317	3007	54¢	75 H 318	3008	54¢	54¢
3/8"	75 H 326	3011	63¢	75 H 327	3012	63¢	63¢
1"	75 H 335	3015	69¢	75 H 336	3016	69¢	69¢

2" & 2 1/2"-DIA. COIL STOCK

Ideal for making buffer and final tank coils, antenna loading coils, line noise filter coils, etc. Easily cut to size. 2" dia. types perform as links when fitted inside any 2 1/2" dia. type. *Turns per inch. All 10" long.

Stock No.	Type	Dia.	Wire	*TPI	Wt.	NET EACH
75 H 406	3900	2"	#14	8	9	1.86
75 H 407	3905-1	2 1/2"	#12	6	13	1.95
75 H 408	3906-1	2 1/2"	#14	8	12	1.86
75 H 409	3907-1	2 1/2"	#16	10	8	1.86

TYPE 3975 BALUN ANTENNA COILS

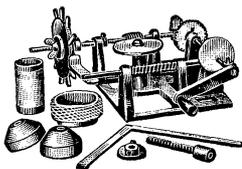
Bifilar inductors for efficiently matching 75-ohm unbalanced output to 75 or 300-ohm balanced transmission lines. Cover 80 through 10 meters without tuning or switching. Excellent for use with transmitters having Pi-networks. Rated, 250 watts input. Less base. Shpg. wt., 12 oz. Two required.

75 H 594, NET EACH... 3.15

Dials, Coils, Accessories

MORRIS COIL WINDER

You'll be able to wind efficient, commercial-looking honeycomb, spiderweb and solenoid coils with this very versatile, but economical coil winder. It's a real time saver and gives your work a more professional appearance. Just set up the winder for the type of coil you need and turn the handle—dial indicator counts the turns for you. May be used for winding RF coils, oscillator coils, loop antennas, chokes, filter inductors, parasitic suppressors, TVI traps, etc. Handles up to No. 16 wire, making it suitable for almost all coil requirements in receivers, test equipment and small transmitters. Unit is supplied with wood spool for holding honeycomb and solenoid coils, plus cast pegholders and four 6½" wooden pegs for spiderweb coils. Winder is mounted on cast-iron base with holes for bench mounting. With extension shaft for winding solenoid coils up to 3¼" long. Less wire and forms. Base size, 4½x5½" Shpg. wt., 3 lbs.



83 P 520. NET.....4.95

AMPHENOL "TUNING EYE" ASSEMBLIES

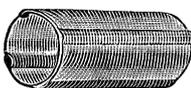
Tuning eye "magic-eye" indicator assemblies for use in custom-built AM or FM chassis and tuners, test instruments, etc. Type 58-MEA-6 assembly takes 6-prong indicator tubes such as the 6E5 or 6U5. Type 58-MEA-8 takes octal-type indicator tubes such as the 6AD6G, 6AF6G, 6AL7G. Easily installed in any superhet receiver having automatic volume control circuit. Complete with hood escutcheon; less tube. Shpg. wt., 6 oz.



Stock No.	Mfr's Type	1-99	100-249	250-Up
45 H 855	58-MEA-6	1.12	.93	.84
45 H 856	58-MEA-8	1.53	1.27	1.15

ILLUMITRONIC COIL STOCK

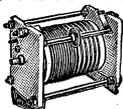
High-quality air-wound coil stock for a wide variety of amateur, experimental, and laboratory applications. Excellent for use in tuned circuits of transmitters, receivers, VFO's, converters, and other types of RF equipment. Each coil comes in a convenient 10" length. May be tapped or easily cut to any length to provide the exact inductance required. All coils are constructed of finest quality tinned copper wire to assure easy soldering and efficient performance. Polystyrene supporting strips provide strength and rigidity—excellent physical stability for frequency determining circuits. *Turns per inch.



Stock No.	Type	Dia.	*TPI	Wire Size	Wt. Oz.	NET EACH
72 H 312	1006T	1 1/4"	6	14	5	1.65
72 H 313	1088T	1 1/2"	8	16	5	1.65
72 H 314	1010T	1 1/2"	10	18	5	1.65
72 H 315	1206T	1 1/2"	6	14	5	1.80
72 H 316	1208T	1 1/2"	8	16	5	1.80
72 H 317	1210T	1 1/2"	10	18	5	1.80
72 H 318	1406T	1 3/4"	6	14	5	1.90
72 H 319	1408T	1 3/4"	8	14	5	1.90
72 H 326	1410T	1 3/4"	10	16	5	1.90
72 H 327	1606T	2"	6	14	9	1.95
72 H 328	1608T	2"	8	14	9	1.95
72 H 329	1610T	2"	10	16	9	1.95
72 H 330	2006T	2 1/2"	6	12	13	2.25
72 H 331	2008T	2 1/2"	8	14	13	2.25
72 H 332	2010T	2 1/2"	10	16	13	2.25
72 H 333	2406T	3"	6	12	17	3.40
72 H 334	2408T	3"	8	14	17	3.40
72 H 337	2410T	3"	10	14	17	3.40

E. F. JOHNSON ROTARY INDUCTORS

Smooth-operating rotary inductors—ideal for tank circuits in multi-band transmitters. Various inductance ratings for improved efficiency at high frequencies. All are rated at 3 amps. Av. shpg. wt., 1½ lbs.



Stock No.	Mfr's Type	Size	Max. µh	NET EACH
60H372	229-201	4 3/8 x 2 1/2 x 2 3/8"	10	9.50
60H373	229-202	5 1/2 x 2 1/2 x 2 3/8"	15	10.50
60H374	229-203	7 1/2 x 2 1/2 x 2 3/8"	25	11.50

B&W "CC-50" COAXIAL CONNECTOR

Provides weatherproof cable connection in half-wave doublet antenna; also serves as center insulator. Antenna elements connect to forged steel eye-bolts. Internal soldering connections for coax cable. Includes eye-bolts, eye-bolts, rubber sleeves, screws, 2 housing sections, and instructions. Shpg. wt., 1 lb.



75 H 593. NET.....5.85

CRONAME "TAILORED" TUNING ASSEMBLIES



CR-1



CR-2A, CR-3A

"Croflex" dials are "tailored" to fit any average chassis. They offer handsome, modern styling that will complement the finest of custom installations. The tuning knob can be located at either end of the dial or along its lower edge. To install, simply position dial assembly and mount on chassis, string dial cord and set pointer, and make shaft hole and dial assemblies accommodate either clockwise or counter-clockwise capacitors with shafts up to ¼" in diameter. Modern "3-dimension" edge-lighted glass scales are calibrated horizontally. Supplied with gold-bronze finished aluminum escutcheon and two clip-on, miniature-base, screw-type pilot light sockets (less bulbs). AM calibration covers 550-1700 kc, FM covers 88-108 mc, shortwave covers 6-18 mc. Series CR-1: 9:1 tuning ratio, 3¼" pointer travel. Series CR-2: 17:1 tuning ratio, 6¾" pointer travel. Series CR-3: 18:1 tuning ratio, 7½" pointer travel. *Has 0-100 logging scale.

Stock No.	Mfr's Type	Application	Cutout	Lbs.	NET EACH
55 H 317	CR-1	*AM-Shortwave	1 1/2x4 1/2"	1	7.35
55 H 318	CR-1A	AM-FM			7.35
55 H 319	CR-1B	AM			7.35
55 H 356	CR-1C	FM			7.35
55 H 322	CR-2	*AM-Shortwave	1 1/2x7 1/2"	1 1/4	8.17
55 H 323	CR-2A	AM-FM			8.17
55 H 324	CR-2B	AM			8.17
55 H 357	CR-2C	FM			8.17
55 H 325	CR-3	*AM-Shortwave	2x8 1/2"	1 1/2	10.58
55 H 326	CR-3A	AM-FM			10.58
55 H 327	CR-3B	AM			10.58

WALSCO DIAL CORD SPOOLS

An excellent selection of dial cord covering 20% of the replacement demand. All types have either a fiber-glass or a linen core. Pre-stretched; maintains proper tension. Nylon-braided sleeves. Av. shpg. wt., 4 oz.



No.	Type	Dia.	Strgth.	Lgth.	EA.
60 N 490	652-Med.	.040"	35 lbs.	25 ft.	.88
60 N 491	656-Thin	.025"	15 lbs.	25 ft.	
60 N 492	654-Std.	.032"	20 lbs.	25 ft.	
43 N 197	652-Med.	.040"	35 lbs.	100 ft.	2.91
43 N 195	656-Thin	.025"	15 lbs.	100 ft.	
43 N 196	654-Std.	.032"	20 lbs.	100 ft.	

G-C DIAL POINTERS

Will fit most radio sets. Can be cut shorter for small dials. Wt., 2 oz.

Type 6810. Kit of 10 pointers in plastic case. Shpg. wt., 4 oz.

60 H 449 NET.....1.91

A 6802. 5" rotary for ¼" shaft. Has gold and red finish.

60 H 446. NET EACH.....24¢

B 6801. 3" rotary for ¼" shaft. Gold.

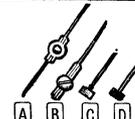
60 H 445. NET EACH.....24¢

C 6804. 2" slide pointer. White enamel.

60 H 448. NET EACH.....24¢

D 6803. 2 1/2" slide pointer. Red translucent.

60 H 447. NET EACH.....24¢



G-C AUTO-RADIO SPEAKER CONTROLS

Type 8891. Switch assembly for selecting operation of either front or rear-seat speaker or both at the same time. Quickly mounts under the dash. Includes switch, dial plate, knob, instructions, hardware. Shpg. wt., 3 oz.

83 D 053. NET.....59¢

Type 9183. Fader Control. Raises volume of one speaker while reducing volume of other. With dial plate, knob, hardware. 3 oz.

83 D 054. NET.....82¢



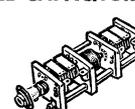
NATIONAL VARIABLE CAPACITORS

Type VHF-25. Precision-made, chassis-mounting dual split-stator variable capacitor. Shaft extension at rear, ball bearings front and back and brackets for mounting 2-7-pin miniature sockets. Each split-stator section has a max. capacity of 22.5 mµf, min. of 3.0 mµf. Airgap: 0.016"; rated 3000 v. (rotor plate to nearest stator plate). Wt., 2 lbs.

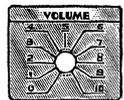
72 H 596. NET.....23.07

72 H 597. Type VHF-1S. One section of above—single split-stator unit. 1 lb.

NET.....13.08



CRONAME DIAL & SWITCH PLATES



E



F

SQUARE DIAL PLATES

Attractive anodized aluminum dial plates with black scales. Available in a large variety of designations. Excellent for installers, hobbyists and experimenters. Use with 1¼" bar knob. Size, 2½x2½", with ½" center hole. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Description
55 H 160	448	Treble, 0-10
55 H 161	447	Bass, 0-10
55 H 133	429	Treble, 5-0-5
55 H 136	428	Bass, 5-0-5
55 H 164	416	Microphone, 1, 0-10
55 H 165	417	Microphone, 2, 0-10
55 H 126	415	Microphone, 0-10
55 H 170	413	Master Gain, 0-10
55 H 124	412	Gain, 0-10
55 H 127	422	Gain, 5-0-5
55 H 123	411	Tone, 0-10
55 H 134	426	Volume, 0-10
55 H 125	414	Record, 0-10
55 H 135	427	Fader, 5-0-5
55 H 138	430	Expansion, 0-10
55 H 137	426	Hono, 0-10
55 H 131	423	Increase, with arrow
55 H 172	410	No title, 0-10

1-24, NET EACH.....51¢
25-99, EACH.....46¢
100-Up, EACH.....42¢

ROUND DIAL PLATES

Easy-to-read etched aluminum scale with black background. 1¾" diameter. Type 25 has clockwise arrow labeled "Volume." Type 569, 0-100 over 180° clockwise. Type 905, 0-100 over 270° clockwise. Use with 1¼" bar knobs. 1½" ctr. hole. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	NET EACH		
		1-24	25-99	100-Up
55 H 141	25	37¢	33¢	30¢
55 H 140	569	37¢	33¢	30¢
55 H 108	905	27¢	24¢	22¢

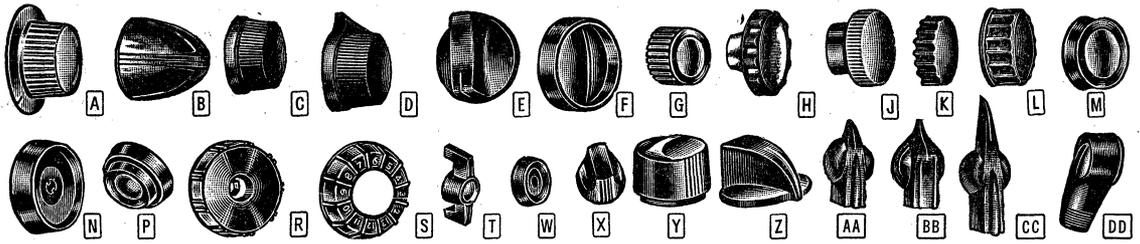
"OFF-ON" SWITCH PLATE

Economy-priced "Off-On" switch plates. Etched aluminum with black background. Has polished aluminum letters and border. Size: 1½x1½". Shpg. wt., 2 oz.

60 H 338. 1-24, NET EACH.....17¢
25-99, EACH.....15¢
100-Up, EACH.....14¢



Molded Knobs—Speaker Repair Service



POPULAR MOLDED KNOBS FOR EVERY REQUIREMENT

A wide selection of handsomely styled plastic knobs. For replacement use on majority of radios and TV sets. Figs. B and C are excellent for small radios. *For knurled shafts only; other types are equipped with

setscrews to permit use with either round or flatted shafts. Figs. F, G and M have rich, contrasting gold-metal inlays. All knobs are for use with standard 1/4" shafts. Simple to install. Av. wt., 3 oz.

Stock No.	Fig.	Dia.	Color	NET EACH			
				1-9	10-49	50-99	100-Up
55 H 031	A	1 1/2"	Black	.12	.108	.099	.09
55 H 032	A	1 1/2"	Red	.12	.108	.099	.09
55 H 080	A	2 3/8"	Black	.08	.072	.066	.06
55 H 022	B	7/8"	Black	.08	.072	.066	.06
55 H 025	B	3/4"	Black	.08	.072	.066	.06
55 H 027	B	3/4"	Walnut	.10	.090	.083	.07
55 H 028*	B	3/4"	Walnut	.04	.036	.033	.03
55 H 029	B	3/4"	Ivory	.08	.072	.066	.06
55 H 043*	C	1 1/8"	Black	.04	.036	.033	.03
55 H 035	C	1 1/8"	Black	.06	.054	.049	.04
55 H 036	C	1 1/8"	Walnut	.10	.090	.083	.07
55 H 023	C	1"	Black	.10	.090	.083	.07
55 H 040	D	1 1/8"	Black	.06	.054	.049	.04
55 H 042*	D	1 1/8"	Black	.04	.036	.033	.03
55 H 081	D	1 1/8"	Black	.12	.108	.099	.09
55 H 018	E	1 1/8"	Black	.10	.090	.083	.07
55 H 019	E	1 1/8"	Red	.10	.090	.083	.07
54 H 960*	F	1 1/8"	Walnut	.24	.216	.199	.18
54 H 964*	G	1 3/8"	Walnut	.16	.154	.132	.12
54 H 965*	G	1 3/8"	Ivory	.16	.154	.132	.12

Stock No.	Fig.	Dia.	Color	NET EACH			
				1-9	10-49	50-99	100-Up
55 H 024	H	7/8"	Black	.10	.090	.083	.07
55 H 050	H	1 3/8"	Black	.14	.126	.116	.10
55 H 082	J	3/4"	Black	.04	.036	.033	.03
54 H 982	K	1"	Walnut	.10	.090	.083	.07
54 H 983	K	1 1/8"	Ivory	.10	.090	.083	.07
54 H 980	L	1 1/8"	Walnut	.10	.090	.083	.07
54 H 981	L	1 1/8"	Ivory	.10	.090	.083	.07
54 H 962*	M	1 1/2"	Walnut	.22	.198	.182	.16
55 H 067	X	1 1/8"	Black	.35	.315	.290	.26
55 H 083	Y	3/4"	Black	.07	.066	.066	.06
55 H 084	Z	1 3/8"	Black	.08	.072	.066	.06
55 H 072	AA	1 1/2"	Black	.06	.054	.049	.04
55 H 073	AA	1 1/2"	Red	.08	.072	.066	.06
55 H 078*	AA	1 1/2"	Black	.12	.108	.099	.09
55 H 074	BB	1 1/4"	Black	.08	.072	.066	.06
55 H 070	CC	2"	Black	.14	.126	.116	.10
55 H 071	CC	2"	Red	.16	.154	.132	.12
55 H 079*	CC	2"	Black	.16	.154	.132	.12
55 H 006	DD	1 5/8"	Black	.16	.154	.132	.12
55 H 089	DD	2 1/2"	Black	.16	.154	.132	.12

TELEVISION REPLACEMENT KNOBS

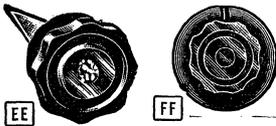
For television receivers using dual-type controls manufactured by Standard Coil, Sarkes-Tarjian, etc. May be used on practically all popular TV sets, such as RCA, Bendix, Westinghouse, Admiral, etc.

Made of molded plastic; have walnut pattern with attractive gold-finish inlay on face. *For 1/4" knurled shaft. 1/4" flatted shaft. 1/2" flatted shaft. †.265" keyway shaft. **3/8" flatted shaft. Av. wt., 2 oz.

Stock No.	Fig.	Dia.	Use	NET EACH			
				1-9	10-49	50-99	100-Up
54 H 966*	M	1 3/8"	Front dual	.26	.234	.215	.19
54 H 967*	M	1 3/8"	Front dual	.26	.261	.240	.21
54 H 968*	M	1 3/8"	Front dual	.29	.261	.240	.21
54 H 969*	N	1 1/2"	Rear dual	.16	.154	.132	.12
54 H 970†	P	1 1/2"	Comb. dual	.44	.40	.365	.33

Stock No.	Fig.	Dia.	Use	NET EACH			
				1-9	10-49	50-99	100-Up
54 H 974**	R	7/8"	Rear dual	.26	.234	.215	.19
54 H 973†	S	2 1/4"	Front dual	.57	.657	.605	.54
54 H 971†	T	2 1/4"	Front dual	.53	.477	.439	.39
54 H 972**	W	1 1/2"	Rear dual	.16	.154	.132	.12

FLUTED BAKELITE KNOBS



An excellent selection of high-quality fluted knobs. Made of durable high-gloss bakelite. All types have metal inserts for added strength. Set screw mounting for use on either 1/4" round or flatted shafts. *Types with pointer. Av. shpg. wt., 4 oz.

Stock No.	Fig.	Dia.	NET EACH			
			1-9	10-49	50-99	100-Up
55 H 085*	EE	1 1/8"	.32	.288	.265	.24
55 H 088*	EE	1 1/8"	.32	.288	.265	.24
55 H 086*	EE	1 1/8"	.32	.288	.265	.24
55 H 087*	EE	2 3/8"	.46	.414	.381	.30
55 H 095*	EE	1 1/8"	.20	.180	.166	.15
55 H 094	EE	1 3/8"	.20	.180	.166	.15
55 H 096	EE	1 3/8"	.24	.216	.199	.18
55 H 097	EE	2 3/8"	.36	.324	.298	.28
55 H 092	FF	1 1/8"	.38	.342	.315	.27
55 H 090	FF	2 3/8"	.48	.432	.398	.36

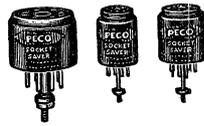
CHROME-PLATED BRASS KNOB



High-quality brass knob with heavy chrome plating. Has handsome professional appearance. Makes an ideal replacement for knobs on most automobile radios; also excellent for use on amateur mobile transmitting and receiving equipment. Small diameter prevents crowding of controls where panel space is limited; 5/8" diameter, 1 1/8" long. Fits 1/4" round or flatted shafts. Shpg. wt., 4 oz.

56 H 751. NET..... 32c

POMONA SOCKET SAVERS



High quality rigidly-mounting socket savers of durable phenolic material with long-life metal contacts. Designed to protect your tube tester sockets from wear caused by repeated tube insertions. Does away with time consuming socket replacements. Prevents tube tester sockets from developing loose, worn contacts which cause inaccurate test readings. No wiring or soldering is necessary—the socket saver easily plugs into original socket. Comes equipped with threaded bolt and nut to secure it rigidly in position through keyway of original socket. An excellent tube tester accessory, available for 7 and 9-pin miniature sockets as well as standard octal. Av. shpg. wt., 3 oz.

Stock No.	Mfr's. Type	Description	NET EACH
40 H 668	SS-7	For 7-pin min.	1.91
40 H 669	SS-8	For 8-pin octal	1.91
40 H 678	SS-9	For 9-pin min.	1.91

POMONA 110° CONVERSION ADAPTER

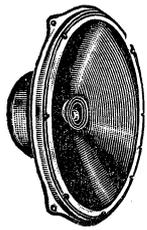


Model 110-S. Sylvania Type. Efficient and durable conversion adapter socket for duo-decal test equipment. No rewiring necessary—simply plug in adapter to convert for 110° socket. Has 0.82" pin circle diameter. Seven pins, .093" diameter. Shpg. wt., 4 oz.

40 H 683. NET..... 1.52
Model 110-R. RCA Type. Similar to above but has 0.600" pin circle diameter. Eight pins, .040" dia. Wt., 5 oz. 40 H 684. NET..... 1.52

ALLIED OFFERS COMPLETE SPEAKER REPAIR SERVICE

HI-FI SPEAKER REPAIR SERVICE



Your valuable hi-fi speakers can be completely rebuilt by skilled technicians, using exact replacement parts. For just a fraction of the original cost any hi-fi speaker can be reconed with a matching high-fidelity cone and voice coil. The repaired speaker will meet all specifications for high-fidelity performance, and will be fully restored to top-notch condition. Just pack your speaker carefully and ship it to us by insured parcel post or Railway Express. Send remittance, and postage, with order. 30 days delivery. Service includes replacing cone, gasket, voice coil, spider and dust cover.

- 8" Hi-Fi Speaker. Repair Service.....7.50
- 12" Hi-Fi Speaker. Repair Service.....11.25
- 16" Hi-Fi Speaker. Repair Service.....15.00

STANDARD SPEAKER REPAIR SERVICE

Skilled technicians will completely rebuild your old speakers for the small charges listed below. Service covers general-purpose speakers including radio, TV and phonograph types. Ship speaker to us prepaid and send remittance (including postage) with order. Allow 30 to 45 days for delivery. Additional charges for field coil repair or replacement are as follows: \$1.25 for 4" to 9"; \$2.25 for 10" to 12". Field coils welded into speaker frames cannot be replaced.

Size	Repair Service	Size	Repair Service
4" to 6"	1.55	14" to 15"	3.85
6 1/2" to 9"	2.55	4"x6" oval	2.00
10"	2.85	5"x7" oval	2.55
11" to 12"	3.05	6"x9" oval	2.55

All-Purpose Tube Sockets

WAFER-TYPE SOCKETS

Sturdily constructed, laminated-bakelite tube sockets. All have 1/2" mtg. centers except #, which has 1" centers. Av. shpg. wt., 2 oz.



Stock No.	Prongs	NET EACH		
		1-9	10-49	50-99
40 H 224	4	7¢	6¢	5¢
40 H 225	5	8¢	7¢	6¢
40 H 226	6	9¢	8¢	7¢
40 H 227	7 (small)	10¢	8¢	7¢
58 H 004*	7 (min.)	6¢	5¢	4¢
40 H 228	Octal	7¢	6¢	5¢

EBY SOCKETS

Type 12



Type 49



Above-Chassis Type. One-piece molded bakelite construction, for top-of-chassis or panel mounting. Contact designations molded in base. Mounting centers, 1 1/4". Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Prongs	EACH	
			1-9	10-49
40 H 254	12-4	4	30¢	27¢
40 H 255	12-5	5	32¢	29¢
40 H 256	12-6	6	34¢	31¢
40 H 261	12-7-N-O	7L & 7S	35¢	32¢
40 H 258	12-8	Octal	39¢	35¢

TV Tube Socket Type 49-13DD. All-molded bakelite, duo-decal TV tube socket for magnetic or electrostatic focusing tubes. Complete with 12 leads. Shpg. wt., 4 oz.

40 H 291, 10-49, EA. ... 42¢-1.9, EA. ... 47¢

CRT TEST SOCKET ADAPTER

TV picture tube socket adapter, easy to install or remove. External lugs permit checking all CRT pin voltages while set is in operation. No wiring or soldering required. Wt., 3 oz.

40 H 273, 1-9, EACH... 94¢
10-49, EACH... 84¢



JAMES MILLEN TUBE SOCKETS

Recommended for UHF use. Higher steatite body gives longer leakage path between contacts. Mounting centers, 1 1/4". Shpg. wt., 4 oz.



Stock No.	Type	Prongs	EACH
72 H 060	33004	4	45¢
72 H 061	33005	5	
72 H 062	33006	6	
72 H 064	33008	8	

RAY-PAR ANTI-CORONA SOCKETS

Octal socket for 1B3 high-voltage rectifier tube. Corona ring minimizes breakdown. Laminated bakelite. Mounts on insulator or high-voltage capacitor with screw type terminal. Shpg. wt., 3 oz.

40 H 446, NET... 44¢



VECTOR SOCKETS PLUG-IN UNITS

Consist of standard tube socket, tubular terminal post, octal plug and shield can. Can sizes: B10M and B10N, 1.37" square, 2.5" long; C10M and C10N, 2" square, 2.5" long. Av. wt., 5 oz.



Stock No.	Type	Description	NET EA.
40 H 237	B10M	7-pin Miniature	1.79
40 H 238	B10N	9-pin Noval	1.82
40 H 241	C10M	7-pin Miniature	2.18
40 H 239	C10N	9-pin Noval	2.20

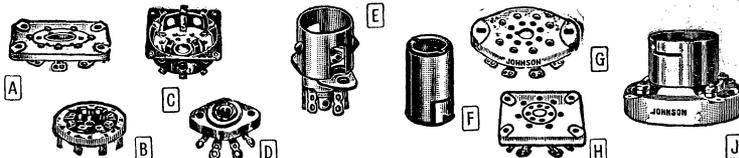
TUBE ADAPTER TEST KIT

Type T-789. Ideal for making voltage, resistance and wave form measurements from tube side of electronic equipment chassis without removing components or disassembling unit. A valuable aid for on-the-spot repair of any radio or TV equipment. Set contains 1—7-pin, 1—9-pin miniature, and 1 octal adapter in carrying case. To use, adapters are simply inserted between tube and tube socket. 1/2" diam. holes in recessed tabs for test prod. points. Adapters will fit into tube shield bases. Shpg. wt., 6 oz.

40 H 210, NET... 6.37



E. F. JOHNSON TUBE SOCKETS



SPECIAL SOCKET TYPES

A Type 122-244, 4-pin steatite for "super jumbo" tubes. Takes 8008, BR6, SC22, SC22, GL146, GL152, GL159, GL169, RO858, RH507, SR50, SR53, SK60, FG105. Wt., 1/2 lb. 73 H 997, NET... 1.60

A Type 122-275, Steatite socket for giant 5-pin base tubes. Takes 4-125A, 4-150A, RK28, RK48, 125M, 803. Shpg. wt., 10 oz. 73 H 998, NET... 1.90

B Type 124-109, 8-pin socket of Kel-F plastic for UHF high power tubes. 8—128" holes on 1 7/8" circle. Shpg. wt., 1/2 lb. 40 H 299, NET... 5.00

C Type 122-101, 7-pin steatite with base shield and retainer springs. For use with 4-65A, 826, 829, 832, etc. Shpg. wt., 1/2 lb. 73 H 245, NET... 2.35

MINIATURE SERIES

D Type 120-267, 7-pin steatite socket with silver-plated contacts. For 9000 series and miniature tubes 1K5, 1S5, 6C6, etc. 3/4" mtg. hole. Shpg. wt., 3 oz. 40 H 290, NET... 41¢

E Type 120-277, As above, but metal mtg. frame and shield base. Shpg. wt., 3 oz. 73 H 186, NET... 59¢

F Type 133-278-6 Shield. For use with Type 120-277 socket. Height 1 3/4". 40 H 244, NET... 15¢

F Type 133-278-8 Shield. As above but 2 1/4" high. Shpg. wt., 3 oz. 73 H 187, NET... 18¢

STANDARD WAFERS

G Steatite wafer sockets for receiving and low-power transmitting tubes. Cadmium-plated contacts. Size, 2 3/8" x 1 1/8". 1/4" Mtg. centers. Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Prongs	NET
73 H 238	122-224	4	69¢
73 H 239	122-225	5	76¢
73 H 240	122-226	6	94¢
73 H 241	122-227	7	90¢
73 H 243	122-228	Octal	97¢

JUMBO WAFERS

H Type 122-237, Steatite wafer for 813, 8001, 3D22, 4E27, HK257, 2 5/8" square. 4 mounting holes, 1 7/8" between centers. Shpg. wt., 1/2 lb. 73 H 188, NET... 1.20

H Type 122-247, Same steatite "giant" 7-pin wafer socket as above, but with etched aluminum base shield. For tubes 825, 826, etc. Shpg. wt., 1/2 lb. 73 H 189, NET... 1.45

BAYONET SOCKETS

J Type 123-209, For tubes with 4 prong "U" bases 857, 860, 866 tubes, etc. 4 mtg. holes, 2 5/8" centers. Shpg. wt., 10 oz. 73 H 195, NET... 1.50

J Type 123-211, Porcelain base socket for use with "jumbo" type, 4-pin tubes. Takes 2U1, 872 tubes, etc. Mounting centers are spaced 2 3/8". Shpg. wt., 1 lb. 73 H 191, NET... 1.95

ELCO SOCKETS, SHIELDS, AND INSERTS

JAN-TYPE MINIATURE SOCKETS AND SHIELDS

The JAN miniature sockets and shields listed below are manufactured in accordance with military standards and are warranted to comply with JAN-S28 A and JAN-S28 A1 specifications. Bayonet-type locking shields and sockets. Highest quality materials and workmanship used in the construction of each precision part. Shpg. wt., 3 oz.



Stock No.	JAN. No. #S-28 A1	Description	NET EACH			
			1-24	25-99	100-249	250-UP
40 H 263	TS 102C01	7-Pin Shield Base, Ceramic	32¢	28¢	25¢	15¢
40 H 264	TS 102P01	7-Pin Shield Base, Mica-filled	24¢	20¢	17¢	11¢
40 H 265	TS 103C01	9-Pin Shield Base, Ceramic	35¢	30¢	28¢	17¢
40 H 266	TS 103P01	9-Pin Shield Base, Mica-filled	26¢	22¢	20¢	12¢
40 H 267	TS 102U01	7-Pin Tube Shield, 1 1/2"	15¢	13¢	11¢	7 1/2¢
40 H 268	TS 102U02	7-Pin Tube Shield, 1 3/4"	16¢	14¢	12¢	8¢
40 H 269	TS 102U03	7-Pin Tube Shield, 2 1/4"	19¢	16¢	14¢	9¢
40 H 270	TS 103U01	9-Pin Tube Shield, 1 1/2"	18¢	16¢	14¢	9¢
40 H 271	TS 103U02	9-Pin Tube Shield, 1 3/4"	18¢	16¢	14¢	9¢
40 H 272	TS 103C03	9-Pin Tube Shield, 2 1/4" Octal Saddle, Ceramic	22¢	19¢	16¢	11¢
40 H 287	TS 101P01	Octal, Saddle, Mica-filled	54¢	64¢	54¢	24¢
			31¢	27¢	23¢	15¢

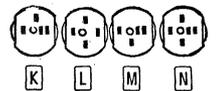
CORRUGATED JAN SHIELD INSERTS

Corrugated JAN-type shield inserts effectively reduce over-heating of miniature tubes—prolong tube life. Material: 0.003" cadmium-plated beryllium copper. Black, non-corrosive finish. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Description	NET EACH			
			1-24	25-99	100-249	250-UP
41 H 232	929	1 3/8" For JAN-U01	18¢	16¢	15¢	9¢
41 H 233	930	1 3/4" For JAN-U02	21¢	18¢	17¢	10¢
41 H 234	931	2 1/4" For JAN-U03	26¢	23¢	22¢	13¢
41 H 235	932	1 1/2" For JAN-U01	22¢	19¢	18¢	11¢
41 H 236	933	1 1/8" For JAN-U02	27¢	24¢	23¢	13¢
41 H 237	934	2 3/8" For JAN-U03	32¢	28¢	27¢	15¢

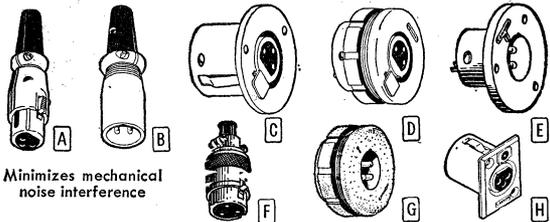
SERIES 3300 TRANSISTOR SOCKETS

An excellent selection of sub-miniature mica sockets. Eliminate loss and damage from direct soldering of transistor pins. For 3-pin transistors with in-line pins, 3 or 4-pin transistors with pins on .200" diam. circle of any configuration. Conform to MIL-P-14. Gold-flashed beryllium copper contacts. Av. shpg. wt., 2 oz.



Stock No.	Type	Fig.	Description	NET EACH			
				1-24, EA.	25-99, EA.	100-249, EA.	250-UP
41 H 092	3301	K	Saddle Mounting	35¢	30¢	25¢	17¢
41 H 238	3303	K	Printed-Circuit Type	26¢	24¢	21¢	13 1/2¢
41 H 093	3304	K	Mounting Ring Type	26¢	22¢	18¢	13¢
41 H 094	3305	K	Printed-Circuit Type	30¢	26¢	22¢	15¢
41 H 239	3306	L	Saddle Mounting	35¢	30¢	25¢	17¢
41 H 243	3307	L	Mounting Ring Type	26¢	22¢	18¢	13¢
41 H 244	3308	L	Printed-Circuit Type	30¢	26¢	22¢	15¢
41 H 245	3309	M	Saddle Mounting	35¢	30¢	25¢	17¢
41 H 246	3310	M	Mounting Ring Type	26¢	22¢	18¢	13¢
41 H 247	3311	M	Printed-Circuit Type	30¢	26¢	22¢	15¢
41 H 248	3312	N	Saddle Mounting	38¢	33¢	28¢	19¢
41 H 249	3313	N	Mounting Ring Type	29¢	25¢	21¢	14 1/2¢
41 H 095	757	.....	Ring Only for 3304, 3307, 3310, 3313	3¢	2 1/2¢	2¢	1¢

Sockets, Plugs, Connectors



Minimizes mechanical noise interference

CANNON PLUGS AND RECEPTACLES

TYPE XLR CONNECTORS

A wide selection of small 3 and 4 contact audio connectors with clamp and resilient socket insulator. Minimize mechanical interference and reduce noise due to movement of cables. Feature streaming design, satin nickel finish, integral cable clamp, neoprene cable relief and push-action latchlock. First number in type column indicates number of contacts. Available with three 15-ampere contacts, or four 10-ampere contacts. *Wall-type receptacles; †panel-type receptacles. Av. shgp. wt., 4 oz.

STRAIGHT CORD PLUGS

Stock No.	Type	Fig.	Description	1-24, EA.	25-99, EA.
40 H 790	XLR-3-11C	A	Female (socket insert)	.91	.78
40 H 212	XLR-4-11C	A	Female (socket insert)	1.26	1.08
40 H 791	XLR-3-12C	B	Male (pin insert)	.88	.75
41 H 213	XLR-4-12C	B	Male (pin insert)	1.18	1.00

WALL AND PANEL RECEPTACES

41 H 214	XLR-3-13*	C	Female (socket insert)	.91	.78
41 H 215	XLR-4-13*	C	Female (socket insert)	1.26	1.08
41 H 216	XLR-3-13N†	D	Female (socket insert)	.91	.78
41 H 217	XLR-4-13N†	D	Female (socket insert)	1.26	1.08
41 H 218	XLR-3-14*	E	Male (pin insert)	.71	.60
41 H 219	XLR-4-14*	E	Male (pin insert)	1.00	.85
41 H 220	XLR-3-14N†	G	Male (pin insert)	.65	.53
41 H 224	XLR-4-14N†	G	Male (pin insert)	1.15	.98
40 H 792	XLR-3-31*	H	Female (socket insert)	.91	.78
41 H 225	XLR-4-31*	H	Female (socket insert)	1.26	1.08
40 H 793	XLR-3-32*	...	Male (pin insert)	.71	.60
41 H 226	XLR-4-32*	...	Male (pin insert)	1.00	.85

TYPE P CONNECTORS

3-contact receptacles and cable connectors for audio circuits. For any size wires up to No. 10. 15 amp contact capacity. Black phenolic insulation. Plugs have steel shells and zinc cable clamps. Av. wt., 4 oz.

40 H 707	IP3-13	...	Panel mount, female (socket)	3.28	2.95
40 H 757	P3-14	...	Panel mount, male(pin)	1.95	1.79
40 H 724	P3-CG-11S	F	Cable plug, female(sk't)	3.70	3.33
40 H 701	P3-CG-12S	...	Cable plug, male (pin)	3.03	2.72
40 H 709	P3-35	...	Wall receptacle, female for 40 H 701	5.11	4.69

Manufacturers and industrial—write for special prices on Cannon Plugs and Receptacles in quantities of 100 or more.

CINCH-JONES RECEPTACLES

TYPE 8PB 8-CONTACT PLUG



For making up to 8 connections between chassis. Molded black bakelite. Fits any octal socket. Use with 16F shield, (below). Shgp. wt., 2 oz.

40 H 846. 1-24, NET EACH... 22c
25-99, EACH... 19c 100 or More, EACH... 18c

Type 11PB 11-Contact Plug. Same as above, but with 11 contacts. Molded black bakelite. Fits 11-contact socket. Type 11RB listed below. Use with type 16F snap-on shield. Shgp. wt., 2 oz.

40 H 847. 25-99, EA. 21 1/2¢ 100 or More, EA. 20¢ 1-24, EA... 24c

TYPE 16F STEEL SNAP-ON SHIELD

Cadmium-plated, durable steel shield. Designed to snap on 8PB and 11PB sockets. For use with extension cables. Rubber grommet with 2 3/8" hole protects cable. Shgp. wt., 2 oz.

40 H 848. 25-99, EA. 25¢ 100 or More, EA. 24¢ 1-24, EA... 28c

TYPE 11RB 11-CONTACT SOCKET

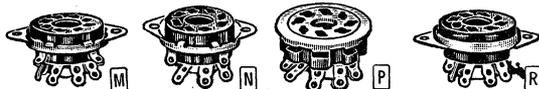
For use with 11PB 11-contact plug (above). Molded from high-dielectric, black bakelite. Hot solder-dipped tinning on brass contact terminals for quick, positive solder connections. Can be mounted on 1/8" thick chassis using retaining ring. Can also be used with 16F snap-on shield (above) on extension cables. Shgp. wt., 2 oz.

40 H 849. 25-99, EA. 25¢ 100 or More, EA. 24¢ 1-24, EA... 28c

H. H. SMITH TV COAX CABLE CONNECTORS

Low-cost solderless coaxial cable connectors for use with RG-59/U and other 1/2" diameter cable. Low-loss insulation. Silver-plated for high conductivity. Av. shgp. wt., 2 oz.

- J** Male Connector. For below.
40 H 300. 10-49, EA... 42¢ 50-Up, EA. 38¢ 1-9, EA... 47c
- K** Female Receptacle. 3/8" threaded stem. Chassis type.
40 H 301. 10-49, EA... 42¢ 50-Up, EA. 38¢ 1-9, EA... 47c
- L** Cable Junction. Feed-through. Both ends fit 40 H 300.
40 H 302. 10-49, EA... 53¢ 50-Up, EA. 48¢ 1-9, EA... 59c



SPECIAL-VALUE OCTAL SOCKETS

For receiving and low-power transmitting equipment. Have phenolic insulated bases, except Fig. P, which has low-loss ceramic. Figs. M, N, and R have tinned steel saddles; M and N saddles are equipped with ground lugs. Fig. M is for below chassis mounting. Figs. N and R mount from top of chassis. Fig. P mounts from top of chassis with spring retainer ring. Contacts are cadmium-plated brass. Av. shgp. wt., 4 oz. per pkg. 3 sockets per pkg.

Stock No.	Fig.	Mtg. Centers	Mtg. Hole Req.	1-4 Pkgs. PER PKG.	5-9 Pkgs. PER PKG.	10 or More Pkgs. PER PKG.
41 H 524	M	1 1/2"	1 3/2"	23c	20c	18c
41 H 525	N	1 1/2"	1 1/4"	22c	20c	18c
41 H 526	P	1 1/2"	1 1/4"	62c	56c	49c
41 H 527	R	1 1/2"	1 1/4"	22c	20c	18c



MINIATURE SOCKETS

Special values in high-quality miniature receiving tube sockets. Top and bottom-mounting types. Available with either general-purpose phenolic or mica-filled phenolic insulated bases. Mica-filled types are ideal for low-loss RF use. All sockets have cadmium-plated brass contacts, and have cadmium-plated steel saddles.

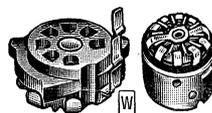
Bottom Mounting Type. Miniature-type sockets for below-chassis mounting. 7-pin types require 3/4" mounting hole; mounting centers are 1/8" apart. 9-pin types require 1 1/4" mounting hole; mounting centers are 1 1/8" apart. Av. shgp. wt., 4 oz. per pkg. 3 per pkg.

Stock No.	Pins	Fig.	Base	1-4 Pkgs. PER PKG.	5-9 Pkgs. PER PKG.	10 or More Pkgs. PER PKG.
41 H 528	7	S	Phenolic	22c	20c	18c
41 H 529	7	T	Mica-Filled Phenolic	26c	25c	25c
41 H 530	9	T	Phenolic	29c	26c	25c
41 H 531	9	T	Mica-Filled Phenolic	34c	31c	27c

Top Mounting Type. Miniature type sockets for top-of-chassis mounting. 7-pin types require 5/8" mtg. hole; mtg. centers are 7/8" apart. 9-pin types require 3/4" mtg. hole; mtg. centers are 1 1/8" apart. Both types have shielded base. Shgp. wt., 2 oz. per pkg. 3 per pkg.

Stock No.	Pins	Fig.	Base	1-4 Pkgs. PER PKG.	5-9 Pkgs. PER PKG.	10 or More Pkgs. PER PKG.
41 H 532	7	S	Phenolic	25c	23c	20c
41 H 533	7	T	Mica-Filled Phenolic	31c	28c	25c
41 H 534	9	T	Phenolic	29c	26c	23c
41 H 535	9	T	Mica-Filled Phenolic	34c	31c	27c

ELCO SOCKETS FOR PRINTED CIRCUITS



Octal 7 and 9 miniature, and octal type sockets designed for use in printed circuits. Types 647, 657 and 659 are for general-purpose use; others have low-loss mica insulation. *Bottom solder; †top solder; ‡shield base; †ground contact; ‡shield contact. Av. shgp. wt., 3 oz.

Stock No.	Mfr's Type	Fig.	Pins	1-24, EA.	25-99, EA.	100-249, EA.	250-U.P., EA.
41 H 550	645*	W	7	12c	10c	8c	6c
41 H 551	612PH*	W	Octal	36c	31c	28c	19c
41 H 552	653*	W	9	16c	14c	12c	8c
42 H 410	646†	W	7	13c	11c	9c	6c
42 H 411	647**	W	7	13c	11c	9c	6c
42 H 412	648**	W	7	14c	12c	10c	6c
42 H 413	657†	W	9	17c	15c	12c	8c
42 H 414	658†	W	9	18c	16c	13c	9c
42 H 415	659†	W	9	17c	15c	13c	8c
42 H 416	660†	X	9	18c	15c	13c	9c
42 H 417	623BC‡	X	9	91c	78c	76c	70c
42 H 418	622PHS‡	X	7	78c	67c	65c	60c

VECTOR SOCKET-TURRETS



Highly dependable terminal structures for use in single or multi-stage sub-assemblies—ideal for limited space applications. Simplifies construction of electronic equipment. Components mount on mica-filled phenolic form. Turrets are 1/2" diam. Octal units mount in 1" hole; miniatures, 3/8" hole. Av. shgp. wt., 3 oz.

2 1/2" Turrets. Has 9 terminals in two rings, spaced 1 3/8" apart.
Stock No. Type Socket 1-19, EA. 20-49, EA. 50-199, EA.
40 H 211 10-0-9T Octal 62¢ 52¢

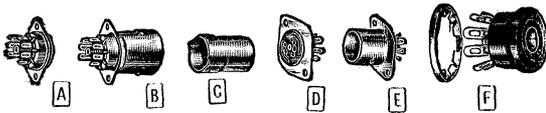
2" Turrets. 9 terminals in two rings, spaced 1" apart.
40 H 212 8-0-9T Octal 59¢ 54¢ 49¢
40 H 217 8-M-9T 7-Pin Min. 68¢ 62¢ 57¢
40 H 233 8-N-9T 9-Pin Noval 68¢ 62¢ 57¢

1 1/2" Turrets. Have 6 terminals in one ring only.
40 H 213 6-0-6T Octal 53¢ 49¢ 44¢
40 H 218 6-M-6T 7-Pin Min. 62¢ 57¢ 52¢
40 H 234 6-N-6T 9-Pin Noval 62¢ 57¢ 52¢

Shield Bases. For miniature sockets above. Fasten above chassis on socket mtg. centers. Use with standard bayonet type shield. Shgp. wt., 2 oz.

Stock No.	Type	Description	1-19, EA.	20-49, EA.	50-199, EA.
40 H 235	S7	For 7-pin sockets	9¢	8¢	7 1/2¢
40 H 236	S9	For 9-pin sockets	9¢	8¢	7 1/2¢

Amphenol Sockets



MINIATURE SOCKETS AND SHIELDS

BAKELITE AND STEATITE SOCKETS

High-grade miniature sockets and shields. 147 series mount in 5/8" chassis hole; 7/8" mtg. ctrs., with 1/8" screw holes. 59 series mount in 3/4" chassis hole and have 1 1/2" mtg. ctrs. with .095" rivet holes, (except 40 H 103, .125"). *Steatite. †Black bakelite. ‡Mica-filled bakelite. Av. shpg. wt., 5 oz.

A WITHOUT TUBE SHIELD BASE

Stock No.	Mfr's Type	Prongs	1-99, EACH	100-249, EACH	250-Up, EACH
40 H 191	‡147-500	7	.15	.125	.113
40 H 192	‡147-501	7	.24	.205	.185
40 H 199	‡147-505	7	.15	.125	.113
40 H 193	‡59-409	9	.20	.17	.153
40 H 167	‡59-410	9	.20	.17	.153

B WITH TUBE SHIELD BASE

Stock No.	Mfr's Type	Prongs	1-99, EACH	100-249, EACH	250-Up, EACH
40 H 194	‡147-905	7	.21	.18	.162
40 H 195	‡147-925	7	.26	.225	.203
40 H 175	‡147-913	7	.22	.188	.169
40 H 103	‡59-408	9	.29	.24	.225
40 H 176	‡59-407	9	.27	.24	.216
40 H 196	‡59-406	9	.24	.21	.189

C TUBE SHIELDS

FOR 7-PRONG SOCKETS

Stock No.	Type	Height	1-99, EA.	100-249, EA.	250-Up, EA.
40 H 197	5-401	1 3/4"	.08	.074	.066
40 H 198	5-402	1 3/4"	.09	.078	.069

FOR 9-PRONG SOCKETS

Stock No.	Type	Length	1-99, EA.	100-249, EA.	250-Up, EA.
40 H 188	5-405	1 1/2"	.09	.075	.068
40 H 189	5-408	1 3/8"	.10	.09	.081
40 H 190	5-409	2 3/8"	.11	.099	.089

7- AND 9-PIN "ETHYLON-A" SOCKETS

Molded of low-loss "Ethylon-A" high "Q" insulating material. For use where temperature is below 125°F. Sockets without shield base are "Zip-In" type; require special keyed hole. 7-pin sockets with shield base require 7/8" holes; 9-pin, 1 3/8" holes. Av. shpg. wt., 5 oz.

D WITHOUT TUBE SHIELD BASE

Stock No.	Type	Prongs	1-99, EA.	100-249, EA.	250-Up, EA.
40 H 184	59-357	7	.15	.125	.113
40 H 185	59-359	9	.20	.17	.153

E WITH TUBE SHIELD BASE

Stock No.	Type	Prongs	1-99, EA.	100-249, EA.	250-Up, EA.
40 H 186	59-367	7	.21	.18	.162
40 H 187	59-369	9	.36	.31	.27

RETAINER RING SOCKETS

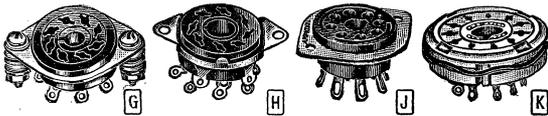
Mount in 5/8" round or "D" shaped hole with retainer ring provided. May be used with 91-MPM plugs (page 192). Av. shpg. wt., 5 oz.

BLACK BAKELITE

Stock No.	Mfr's Type	No. Prongs	1-99, EACH	100-249, EACH	250-Up, EACH
40 H 131	78-S3S	3	.07	.063	.056
40 H 115	78-S4S	4	.07	.063	.056
40 H 122	78-S5S	5	.10	.09	.081
40 H 130	78-S6S	6	.11	.095	.086
40 H 120	78-7P	7	.14	.12	.108

MICA-FILLED

Stock No.	Type	Prongs	1-99, EA.	100-249, EA.	250-Up, EA.
40 H 124	78-7PT	7	.15	.128	.115



SPECIAL OCTAL, AND MAGNAL SOCKETS

G Type 77-MIP8FK Floating Octal. Live-rubber grommets in enlarged mounting holes of sturdy steel plate. Mounts in 1 3/4" hole with two 1/4" holes on 1 1/2" centers. With grommets, mtg. screws, nuts and washers. Shpg. wt., 5 oz.

40 H 043, 1-99, NET EACH.....21
100-249, EACH.....18 250-Up, EACH.....162

H Type 168-015 Saddle Octal. Designed for below-chassis mounting. Steel plate is molded directly into bakelite body. For 1" hole; 3/4" mtg. holes on 1 1/2" ctrs. Shpg. wt., 5 oz.

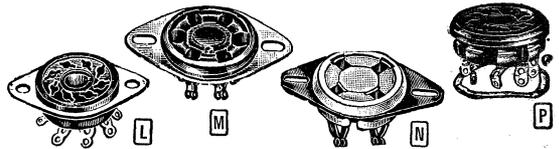
40 H 118, 1-99, NET EACH.....09
100-249, EACH.....075 250-Up, EACH.....068

J Type 59-355 "Ethylon-A" Octal. Molded of low-loss "Ethylon-A" insulating material. High "Q" factor. For applications where temperature does not exceed 125°F. May be mounted above or below chassis. Requires 1 3/8" diameter hole; two 3/8" mounting holes on 1 1/2" centers. Shpg. wt., 5 oz.

40 H 182, 1-99, NET EACH.....20
100-249, EACH.....17 250-Up, EACH.....163

K Type 49-SS11L Magnal. Has 1 1/4" pin circle to accept 11-prong cathode-ray tubes. Constructed from low-loss steatite. Steel retaining ring for quick assembly. Requires 1 1/2" mounting hole. Shpg. wt., 7 oz.

40 H 090, 1-99, NET EACH.....61
100-249, EACH.....52 250-Up, EACH.....47



POPULAR STANDARD SOCKETS

L Type MIP. Bakelite body with molded-in steel plate. *Require 1 1/8" hole; mounting centers, 1 1/8". All others have 1 1/2" mounting centers. †Requires 1 3/4" hole; ‡1 1/2" hole. †Mica-filled bakelite. Av. shpg. wt., 4 oz.

Stock No.	Mfr's Type	Prongs	1-99, EACH	100-249, EACH	250-Up, EACH
40 H 024	77MIP4§	4	.09	.078	.070
40 H 025	77MIP5§	5	.10	.086	.077
40 H 026	77MIP6§	6	.11	.099	.087
40 H 027	77MIP7S§	7 Small	.12	.107	.096
40 H 028	77MIP7L†	7 Large	.12	.106	.095
40 H 029	77MIP8§	Octal	.10	.085	.077
40 H 126	88-8*	Octal	.11	.095	.086
40 H 030	88-8X*	Octal	.14	.118	.106
40 H 034	77MIP8T§†	Octal	.12	.102	.091
40 H 032	77MIP9§	9	.12	.10	.09
40 H 033	77MIP11§	11	.13	.11	.099

M Type RS. Have removable mounting plate. 40 H 009 mounts in 1 1/2" hole, others in 1 1/4" hole. Slotted mounting holes to fit centers from 1/2 to 1 1/4". Av. shpg. wt., 4 oz.

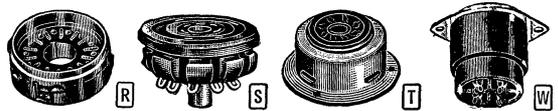
Stock No.	Type	Prongs	1-99, EA.	100-249, EA.	250-Up, EA.
40 H 004	78RS4	4	.11	.098	.088
40 H 005	78RS5	5	.12	.105	.095
40 H 006	78RS6	6	.13	.113	.101
40 H 007	78RS7S	7 Small	.14	.118	.106
40 H 009	78RS7L	7 Large	.18	.155	.14
40 H 008	78RS8	Octal	.13	.11	.099
40 H 010	78RS8L	Local	.17	.148	.133
40 H 012	78RS9	9	.13	.115	.104

N Type RSS. Ultra-low-loss steatite sockets. Excellent for use in high-frequency transmitting equipment, etc. All are universal type; have removable mounting plate with slotted holes 1 1/2 to 1 7/8". Mounting hole, 1 1/4" except 40 H 079, which requires 1 1/4". Av. shpg. wt., 5 oz.

Stock No.	Type	Prongs	1-99, EA.	100-249, EA.	250-Up, EA.
40 H 074	49RSS4	4	.28	.245	.22
40 H 075	49RSS5	5	.29	.255	.23
40 H 076	49RSS6	6	.31	.27	.243
40 H 077	49RSS7	7 Small	.35	.30	.27
40 H 079	49RSS7L	7 Large	.34	.295	.266
40 H 078	49RSS8	Octal	.30	.255	.23

P Type S. High-dielectric molded bakelite body. Units are the same as type RS, but without mounting plate; mount with retainer ring, supplied. All sockets require 1 1/4" hole, except 40 H 059, which requires 1 1/4" hole. Av. shpg. wt., 4 oz.

Stock No.	Type	Prongs	1-99, EA.	100-249, EA.	250-Up, EA.
40 H 054	78S4	4	.08	.07	.063
40 H 055	78S5	5	.09	.078	.07
40 H 056	78S6	6	.10	.085	.077
40 H 057	78S7S	7 Small	.10	.09	.081
40 H 059	78S7L	7 Large	.14	.123	.11
40 H 058	78S8	Octal	.10	.085	.077
40 H 062	78S9	9	.11	.098	.088
40 H 060	78S8L	Local	.14	.118	.106



R Type 59-402 Television Tube Socket. Duodecal socket for cathode-ray tubes. Has 12 prongs equally spaced on a 1.063" diameter circle. Body constructed from low-loss bakelite insulating material. Has removable cap, which fits over terminals to provide protection from shock hazard. Shpg. wt., 5 oz.

40 H 100, 1-99, NET EACH.....68
100-249, EACH.....58 250-Up, EACH.....52

S Type "S" Miniature Sockets. Have high-dielectric, molded bakelite insulating material. Mount in standard 1 1/4" chassis hole with retainer ring supplied. Av. shpg. wt., 5 oz.

Stock No.	Type	Pins	1-99, EA.	100-249, EA.	250-Up, EA.
40 H 113	78-A7P	7	.22	.185	.167
40 H 114	78-A9P	9	.26	.225	.203

T Type 23-1S ACS Socket Shells. Lightweight aluminum shell for type "RSS," "RS," and "S" sockets, except 78S7L, 78RS7L, and 49RSS7L. Permits extension of sockets 1 3/8" above or below chassis surface. Body dia., 1 1/8". Mounts in 1 3/4" hole. Less socket. Shpg. wt., 5 oz.

40 H 127, 1-99, NET EACH.....10
100-249, EACH.....086 250-Up, EACH.....078

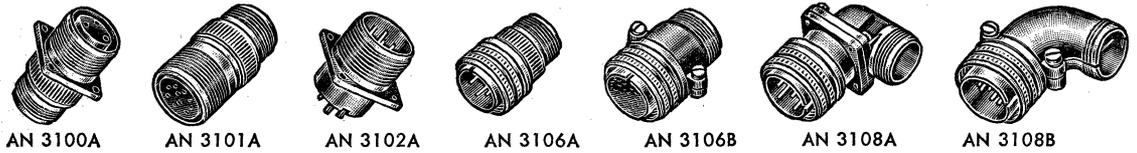
W Type 77A-4T High-Voltage 4-Contact Safety Socket. For high-voltage, small-base TV rectifier tubes. Takes all 4-pin types with 1.156" base dia., such as 2X2A. Requires 1 1/2" dia. hole. Shpg. wt., 5 oz.

40 H 147, 1-99, NET EACH.....44
100-249, EACH.....375 250-Up, EACH.....338

Barrier-Type Industrial Octal Sockets. Max. EIA working voltage, 2,000 DC. Bronze cloverleaf contacts. Rated 8 amps each contact. Inter-electrode capacitance, 2.6 mmf. Eight screw terminals. Insulating barriers. Top mounting. *Includes 4 molded-in threaded inserts for use as tie points. Size: 3/4x1 1/2x2 3/4". Mtg. ctrs., 1 1/8". Shpg. wt., 8 oz.

Stock No.	Type	1-49, EACH	50-149, EACH	150-Up, EACH
40 H 180	146-103	.96	.82	.74
40 H 181	146-104*	1.25	1.07	.96

Amphenol AN Connectors



AN OR MS MARKING—MEET ARMY-NAVY SPECIFICATIONS

ALLIED STOCKS ALL AMPHENOL AN CONNECTORS

Allied can supply any Amphenol Type AN (MS) connector directly from stock. Only the most popular types are listed below. To order any type not listed, give complete Amphenol Type No. and description. Write for special prices on quantities of 50 or more of any one type.

Amphenol "AN" connectors for use in aircraft and other critical applications. The connectors you receive will have either the "AN" markings or the government's new "MS" markings—connectors with the same numerical designations are identical in every respect whether marked "AN" or "MS". Explanation of type nos.: E.g., Type 3102A-20-7P. Letter "A" after first 4 digits indicates solid shell (letter "B" would mean split shell). —20— indicates shell size in 16ths of an inch; (²⁹/₁₆", or 1 ¹/₄"). The final letter "P" in type number indicates male contacts (pins); type numbers ending in "S" indicate female contacts (sockets). Av. shpg. wt., 6 oz.

Size 85			
Stock No.	"AN" Type	Con-tacts	NET
39H 701	3106A-8S-1P	1	.75
39H 702	3108A-8S-1P	1	1.16
39H 703	3102A-8S-1S	1	.53

Size 10S			
Stock No.	"AN" Type	Con-tacts	NET
39H 704	3102A-10S-2S	1	.44
39H 705	3102A-10S-2S	1	.44
39H 706	3106A-10S-2S	1	.64

Size 10SL			
Stock No.	"AN" Type	Con-tacts	NET
39H 708	3106A-10SL-4S	2	.69
39H 709	3100A-10SL-3P	3	.86
39H 710	3101A-10SL-3P	3	.73
39H 711	3102A-10SL-3P	3	.56
39H 712	3106A-10SL-3S	3	.75
39H 713	3102A-10SL-4P	2	.47
39H 714	3106A-10SL-4S	2	1.30
39H 715	3108B-10SL-4S	2	1.03

Size 12S			
Stock No.	"AN" Type	Con-tacts	NET
39H 717	3102A-12S-3P	2	.44
39H 718	3106A-12S-3P	2	.75
39H 719	3108A-12S-3P	2	1.27
39H 720	3100A-12S-3S	2	.71
39H 721	3102A-12S-3S	2	.47
39H 722	3106A-12S-3S	2	.78
39H 723	3108A-12S-3S	2	1.30
39H 724	3108B-12S-3S	2	1.05
39H 725	3102A-12S-4P	1	.46
39H 726	3106A-12S-4S	1	.78

Size 12SL			
Stock No.	"AN" Type	Con-tacts	NET
39H 716	3106A-12SL-844S	4	2.40

Size 14S			
Stock No.	"AN" Type	Con-tacts	NET
39H 729	3102A-14S-1P	3	.62
39H 730	3106A-14S-1P	3	.93
39H 731	3102A-14S-1S	3	.66
39H 732	3106A-14S-1S	3	.96
39H 733	3108A-14S-1S	3	1.52
39H 734	3108B-14S-1S	3	1.10
39H 735	3102A-14S-2P	4	.62
39H 736	3106A-14S-2P	4	.95
39H 737	3108A-14S-2P	4	1.33
39H 738	3108B-14S-2P	4	1.49
39H 739	3100A-14S-2S	4	.93
39H 740	3101A-14S-2S	4	.96
39H 741	3102A-14S-2S	4	.71
39H 742	3106A-14S-2S	4	1.01
39H 743	3106B-14S-2S	4	1.34
39H 744	3108A-14S-2S	4	1.57
39H 745	3108B-14S-2S	4	1.15
39H 747	3101A-14S-5P	5	1.00
39H 748	3102A-14S-5P	5	.73
39H 749	3106A-14S-5P	5	1.05
39H 750	3106A-14S-5S	5	1.00
39H 751	3102A-14S-5S	5	.76
39H 752	3106A-14S-5S	5	1.08
39H 753	3106B-14S-5S	5	1.40
39H 754	3108A-14S-5S	5	1.64
39H 755	3108B-14S-5S	5	1.21
39H 756	3102A-14S-6P	6	.83
39H 757	3106A-14S-6S	6	1.15

Size 14S (cont'd)			
Stock No.	"AN" Type	Con-tacts	NET
39H 758	3108B-14S-6S	6	1.27
39H 759	3102A-14S-7P	3	.62
39H 760	3106A-14S-7P	3	.93
39H 761	3101A-14S-7S	3	.91
39H 762	3102A-14S-7S	3	.66
39H 763	3106A-14S-7S	3	.96
39H 766	3101A-14S-9P	2	.83
39H 767	3102A-14S-9P	2	.58
39H 768	3106A-14S-9P	2	.87
39H 769	3102A-14S-9S	2	.61
39H 770	3106A-14S-9S	2	.91
39H 771	3108B-14S-9S	2	1.05

Size 16			
Stock No.	"AN" Type	Con-tacts	NET
39H 772	3106A-16-10P	3	1.18
39H 774	3102A-16-11P	2	.62
39H 775	3106A-16-11S	2	1.22

Size 16S			
Stock No.	"AN" Type	Con-tacts	NET
39H 777	3101A-16S-1P	7	1.10
39H 778	3102A-16S-1P	7	.78
39H 779	3106A-16S-1P	7	1.45
39H 780	3108B-16S-1P	7	1.45
39H 781	3100A-16S-1S	7	1.01
39H 782	3102A-16S-1S	7	.76
39H 783	3106A-16S-1S	7	1.13
39H 784	3108B-16S-1S	7	1.52
39H 785	3106B-16S-1S	7	1.44
39H 786	3102A-16S-1S	7	.59
39H 788	3106A-16S-6P	3	1.01
39H 789	3102A-16S-8P	5	.71
39H 790	3102A-16S-8S	5	.75
39H 791	3106A-16S-8S	5	1.11

Size 18			
Stock No.	"AN" Type	Con-tacts	NET
39H 792	3102A-18-1P	10	1.10
39H 793	3106A-18-1P	10	1.54
39H 794	3108B-18-1P	10	.96
39H 795	3100A-18-1S	10	1.40
39H 796	3102A-18-1S	10	1.18
39H 797	3106A-18-1S	10	1.62
39H 798	3108B-18-1S	10	2.14
39H 799	3108A-18-1S	10	2.62
39H 800	3108B-18-1S	10	2.04
39H 801	3102A-18-3P	2	.73
39H 802	3106A-18-3S	2	1.35
39H 803	3102A-18-4P	4	.78
39H 804	3106A-18-4P	4	1.22
39H 805	3102A-18-4S	4	.88
39H 806	3106A-18-4S	4	1.32
39H 807	3102A-18-8P	8	1.03
39H 808	3106A-18-8P	8	1.47
39H 809	3108A-18-8S	8	2.20
39H 810	3106B-18-8S	8	1.64
39H 812	3106A-18-9P	7	1.44
39H 813	3106A-18-9S	7	1.37
39H 814	3106B-18-9S	7	1.59
39H 815	3102A-18-11P	5	1.03
39H 816	3106A-18-11P	5	1.47
39H 817	3106A-18-12P	6	1.34
39H 818	3106B-18-12S	6	1.03
39H 819	3102A-18-12S	6	1.47
39H 820	3102A-18-15S	4	2.68

Size 20			
Stock No.	"AN" Type	Con-tacts	NET
39H 822	3102A-20-4P	4	.98
39H 823	3106A-20-4S	4	1.78

Size 20 (cont'd)			
Stock No.	"AN" Type	Con-tacts	NET
39H 824	3102A-20-7P	8	1.08
39H 825	3106A-20-7P	8	1.64
39H 826	3101A-20-7S	8	1.60
39H 827	3102A-20-7S	8	1.20
39H 828	3106A-20-7S	8	1.74
39H 829	3102A-20-9P	8	1.18
39H 830	3106A-20-9P	13	1.86
39H 831	3102A-20-11S	13	2.31
39H 832	3106A-20-15P	7	1.78
39H 833	3106A-20-15P	7	1.78
39H 834	3102A-20-15S	7	1.78
39H 835	3102A-20-16P	9	1.06
39H 836	3106A-20-16P	9	1.62
39H 837	3102A-20-18P	9	1.21
39H 838	3106A-20-18S	9	1.40
39H 839	3102A-20-27P	14	1.40
39H 840	3106A-20-27P	14	1.96
39H 841	3106B-20-27P	14	2.33
39H 842	3108B-20-27P	14	2.42
39H 843	3100A-20-27S	14	1.70
39H 844	3102A-20-27S	14	1.45
39H 845	3106A-20-27S	14	2.01
39H 846	3106B-20-27S	14	2.38
39H 847	3108A-20-27S	14	3.18
39H 848	3108B-20-27S	14	2.47
39H 849	3102A-20-29P	17	1.59
39H 850	3106A-20-29P	17	2.14
39H 851	3102A-20-29S	17	1.60
39H 852	3106A-20-29S	17	2.16

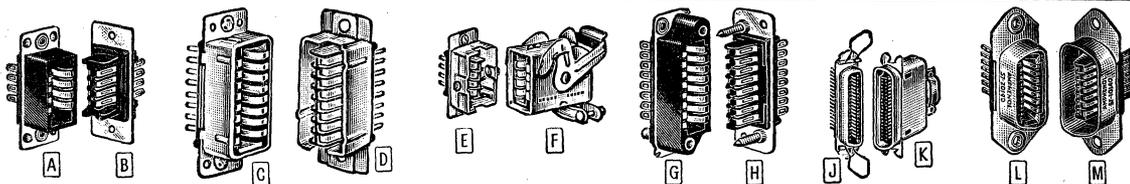
Size 22			
Stock No.	"AN" Type	Con-tacts	NET
39H 853	3102A-22-5P	6	1.08
39H 854	3106A-22-5S	6	2.22
39H 855	3100A-22-14P	19	2.01
39H 856	3102A-22-14P	19	1.69
39H 857	3106A-22-14P	19	2.35
39H 858	3108B-22-14P	19	2.76
39H 860	3102A-22-14S	19	1.89
39H 861	3106A-22-14S	19	2.57
39H 862	3106B-22-14S	19	3.07
39H 863	3108A-22-14S	19	3.74
39H 865	3106A-22-18P	8	1.94
39H 866	3102A-22-18S	8	1.30
39H 867	3102A-22-19P	14	1.50
39H 868	3102A-22-19S	14	1.57
39H 869	3106A-22-19S	14	2.23
39H 870	3106A-22-23P	8	1.98
39H 871	3106A-22-23S	8	1.83

Size 24			
Stock No.	"AN" Type	Con-tacts	NET
39H 872	3106A-24-5P	16	2.32
39H 873	3102A-24-5S	16	1.88
39H 874	3106A-24-5S	16	2.62
39H 875	3108B-24-5P	16	3.27
39H 876	3106A-24-5P	16	2.32
39H 877	3100A-24-7S	16	2.18
39H 879	3108B-24-7S	16	2.94
39H 880	3106A-24-9P	2	2.42
39H 881	3102A-24-9S	2	1.86
39H 883	3106A-24-20P	11	2.09
39H 884	3102A-24-20S	11	1.49
39H 885	3101A-24-28P	24	2.19
39H 886	3102A-24-28P	24	1.70
39H 887	3106A-24-28P	24	2.43
39H 889	3102A-24-28S	24	2.22
39H 890	3106A-24-28S	24	2.96
39H 891	3106B-24-28S	24	3.30

Size 28			
Stock No.	"AN" Type	Con-tacts	NET
39H 892	3102A-28-11P	22	2.22

Size 28 (cont'd)			
Stock No.	"AN" Type	Con-tacts	NET
39H 893	3106A-28-11P	22	3.07
39H 894	3106A-28-11S	22	2.50
39H 895	3106A-28-11S	22	3.35
39H 896	3106B-28-11S	22	3.66
39H 897	3102A-28-12P	26	2.04
39H 898	3106A-28-12P	26	2.89
39H 900	3106A-28-12S	26	

Amphenol Connectors



BLUE RIBBON CONNECTORS

Amphenol Type 26 Blue Ribbon connectors for heavy-duty operation. Provide an excellent solution to multi-circuit connection, switching and re-routing problems. Self-cleaning spring contacts maintain continuity even under conditions of severe vibration. Do not require visual alignment. Positive polarization prevents mismatching of connectors. Feature low insertion and withdrawal force, but provide firm, positive contact. Exclusive spring-tension contacts are heavily silver base plated and gold finished; will not tarnish or corrode. Plug contacts are supported their full length on the dielectric. Dielectric

configuration makes it impossible to overstress or fatigue contacts and individual protective barrier between each spring member insures proper spacing. Bodies are diallyl phthalate blue dielectric and meet government specifications. Have high insulation resistance and stability. Mounting plates are made of corrosion-resistant stainless steel and are molded into the body. 4301 Series has end cable outlet; 4501 Series has side cable outlet. S in Type No. indicates socket contacts; P indicates plug contacts. For wire size up to No. 16. Rated 5 amperes at 600 v., DC. Av. shpg. wt., 5 oz.

TYPE 26 BARRIER POLARIZATION TYPES

Contacts	(B) MALE				(A) FEMALE			
	Stock No.	Mfr's Type	NET EACH		Stock No.	Mfr's Type	NET EACH	
			1-9	10-49			1-9	10-49
8	40 H 542	182	1.02	.76	40 H 543	183	1.64	1.22
8	40 H 660	4100-8P	.96	.72	40 H 664	4200-8S	1.57	1.18
16	40 H 661	4100-16P	1.78	1.34	40 H 665	4200-16S	2.26	1.70
24	40 H 662	4100-24P	2.14	1.60	40 H 666	4200-24S	2.72	2.04
32	40 H 663	4100-32P	2.51	1.88	40 H 667	4200-32S	3.20	2.40

TYPE 26 BARRIER POLARIZED CONNECTORS WITH KEYPED SHELLS

Contacts	(D) MALE				(C) FEMALE			
	Stock No.	Mfr's Type	NET EACH		Stock No.	Mfr's Type	NET EACH	
			1-9	10-49			1-9	10-49
8	40 H 650	4101-8P	1.88	1.41	40 H 671	4201-8S	2.16	1.62
16	40 H 651	4101-16P	2.82	2.12	40 H 672	4201-16S	2.94	2.20
24	40 H 652	4101-24P	3.26	2.45	40 H 673	4201-24S	3.51	2.63
32	40 H 653	4101-32P	3.74	2.81	40 H 674	4201-32S	4.10	3.07

TYPE 26 BARRIER POLARIZED CONNECTORS WITH KEYPED LATCH SHELLS

Contacts	(E) PLUGS				(F) MATING RECEPTACLES			
	Stock No.	Mfr's Type	NET EACH		Stock No.	Mfr's Type	NET EACH	
			1 to 9	10 to 49			1 to 9	10 to 49
8	40 H 610	4301-8S	5.45	4.09	40 H 618	4401-8P	2.92	2.19
8	40 H 614	4501-8P	4.83	3.63	40 H 619	4401-8S	5.53	2.65
16	40 H 611	4301-16S	6.53	4.90	40 H 620	4401-16P	3.86	2.89
16	40 H 615	4501-16P	6.06	4.55	40 H 621	4401-16S	4.33	3.25
24	40 H 612	4301-24S	7.38	5.54	40 H 622	4401-24P	4.31	3.23
24	40 H 616	4501-24P	6.79	5.10	40 H 623	4401-24S	4.90	3.67
32	40 H 613	4301-32S	8.26	6.19	40 H 630	4401-32P	4.79	3.60
32	40 H 617	4501-32P	7.56	5.66	40 H 631	4401-32S	5.49	4.12

TYPE 26 PIN POLARIZATION TYPES

Contacts	(H) MALE				(G) FEMALE			
	Stock No.	Mfr's Type	NET EACH		Stock No.	Mfr's Type	NET EACH	
			1-9	10-49			1-9	10-49
16	40 H 544	159-16	1.94	1.46	40 H 545	190-16	2.42	1.81
24	40 H 546	159-24	2.33	1.74	40 H 547	190-24	2.92	2.19
32	40 H 548	159-32	2.74	2.06	40 H 549	190-32	3.44	2.58

TYPE 57 MICRO-RIBBON MINIATURE CONNECTORS

Extremely compact, high-quality connectors for use in cable-to-chassis connections. Have cadmium-plated brass shells with clear chromate treatment plus the Blue Ribbon features described above. Rated 5 amps, 700 v. DC. Av. shpg. wt., 1 oz.

Stock No.	Type No.	Description	1-9, EA.	10-49, EA.
41 H 075	57-30140	14-Contact Plug	2.76	2.08
41 H 079	57-40140	14-Contact Socket	2.07	1.55
41 H 076	57-30240	24-Contact Plug	3.09	2.31
41 H 082	57-40240	24-Contact Socket	2.48	1.86
41 H 077	57-30360	36-Contact Plug	3.37	2.53
41 H 083	57-40360	36-Contact Socket	2.66	1.99
41 H 078	57-30500	50-Contact Plug	4.16	3.12
41 H 084	57-40500	50-Contact Socket	3.44	2.58

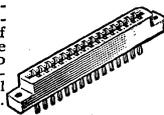
TYPE 57 MICRO-RIBBON MINIATURE CONNECTORS

Miniature connectors for chassis-to-chassis connections. Have gold-iridite finished brass shell and gold-plated contacts. For wire up to No. 22. Rated 5 amps, 700 v. DC. Av. shpg. wt., 2 oz.

Stock No.	Type No.	Description	1-9, EA.	10-49, EA.
40 H 482	57-10140	14-Contact Plug	1.68	1.25
40 H 485	57-20140	14-Contact Socket	1.72	1.29
40 H 483	57-10240	24-Contact Plug	2.22	1.67
40 H 486	57-20240	24-Contact Socket	2.24	1.69
40 H 484	57-10360	36-Contact Plug	2.55	1.91
40 H 487	57-20360	36-Contact Socket	2.57	1.93
40 H 098	57-10500	50-Contact Plug	3.26	2.45
40 H 099	57-20500	50-Contact Socket	3.33	2.50

PRINTED CIRCUIT CONNECTORS AND PLUGS

Series 143 Printed Circuit Connectors. High-quality connectors for use in printed circuit networks. Printed circuit board acts as male part of connector. Ideal for use in computers, telephone equipment, military gear, etc. Specially designed to resist set or over-stress—even after repeated insertions. Blue dielectric; gold-plated contacts. All units accept .061" to .071" printed circuit boards. Av. shpg. wt., 2 oz.



Stock No.	Type	Contacts	1-9, EA.	10-49, EA.
41 H 090	143-006-01	6	1.43	1.08
40 H 503	14-010-01	10	1.16	.86
40 H 500	143-015-01	15	1.55	1.16
40 H 501	143-018-01	18	1.68	1.25
40 H 502	143-022-01	22	2.01	1.50

Series 133 Printed Circuit Plugs. A selection of dependable plugs and adaptors recommended for use with standard 143 series printed circuit connectors listed at left. Have molded diallyl phthalate body, molded nylon guide pins, brass cadmium-plated end caps and brass contacts with gold over albaloz plating. Average voltage rating 2300 v. rms at sea level; current rating meets or surpasses any printed circuit wiring board requirement. All units are polarized. Av. shpg. wt., 2 oz.



Stock No.	Type	Contacts	1-9, EA.	10-49, EA.
41 H 085	133-010-21	10	1.80	1.35
41 H 086	133-015-21	15	2.11	1.59
41 H 087	133-018-21	18	2.35	1.76
41 H 088	133-022-21	22	2.57	1.93

SERIES 165 AN-TYPE CONNECTORS

The Amphenol Series 165 electrical connectors feature compact design and complete dependability. Two sizes are available—a small size with 5, 9 or 12 contacts and a large size with 11, 14 or 24 contacts. All connectors are available with either male or female inserts installed in plug or receptacle. Connectors remain waterproof whether mated or apart. Bronze contacts are gold-plated over a silver base and shells are made of aluminum. Small receptacles mount in 1 1/8" hole and are secured through 4, 125° equally spaced holes on the flange. Flange is only 1 1/8" square. Large receptacles mount in 1 1/4" hole and are secured through 4, 125° equally spaced holes on a 1 1/2" square flange. Plugs are approximately 2 1/4" long. Small sized plug is 5/8" diameter and large sized plug is 1 1/8" diameter. All are rated at 500 volts rms except *600 volts rms. All plugs have built-in, strain-relief, cable clamps. Av. shpg. wt., 3 oz. Quantity prices on 50 or more of any type—write for prices.



SMALL SHELL—5 No. 20 AWG

Stock No.	Type No.	Contacts and Ampere Rating	Description	NET EACH
40 H 595	165-33	*5 @ 7.5	Male Plug	3.14
40 H 596	165-34	*5 @ 7.5	Female Plug	3.53
40 H 597	165-35	*5 @ 7.5	Male Receptacle	2.40
40 H 598	165-36	*5 @ 7.5	Female Receptacle	2.82

SMALL SHELL—9 No. 20 AWG

Stock No.	Type No.	Contacts and Ampere Rating	Description	NET EACH
40 H 579	165-13	9 @ 7.5	Male Plug	3.26
40 H 580	165-14	9 @ 7.5	Female Plug	4.00
40 H 581	165-15	9 @ 7.5	Male Receptacle	2.56
40 H 582	165-16	9 @ 7.5	Female Receptacle	3.18

SMALL SHELL—12 No. 20 AWG

Stock No.	Type No.	Contacts and Ampere Rating	Description	NET EACH
40 H 575	165-9	12 @ 7.5	Male Plug	3.40
40 H 576	165-10	12 @ 7.5	Female Plug	4.39
40 H 577	165-11	12 @ 7.5	Male Receptacle	2.71
40 H 578	165-12	12 @ 7.5	Female Receptacle	4.65

LARGE SHELL—4 No. 16 & 7 No. 20 AWG

Stock No.	Type No.	Contacts and Ampere Rating	Description	NET EACH
40 H 583	165-17	4 @ 17; 7 @ 7.5	Male Plug	4.48
40 H 584	165-18	4 @ 17; 7 @ 7.5	Female Plug	5.36
40 H 585	165-19	4 @ 17; 7 @ 7.5	Male Receptacle	2.96
40 H 586	165-20	4 @ 17; 7 @ 7.5	Female Receptacle	3.77

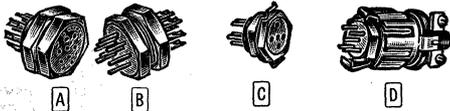
LARGE SHELL—14 No. 16 AWG

Stock No.	Type No.	Contacts and Ampere Rating	Description	NET EACH
40 H 591	165-29	14 @ 17	Male Plug	4.64
40 H 592	165-30	14 @ 17	Female Plug	5.73
40 H 593	165-31	14 @ 17	Male Receptacle	3.07
40 H 594	165-32	14 @ 17	Female Receptacle	4.16

LARGE SHELL—24 No. 20 AWG

Stock No.	Type No.	Contacts and Ampere Rating	Description	NET EACH
40 H 587	165-25	24 @ 7.5	Male Plug	5.34
40 H 588	165-26	24 @ 7.5	Female Plug	6.85
40 H 589	165-27	24 @ 7.5	Male Receptacle	3.77
40 H 590	165-28	24 @ 7.5	Female Receptacle	5.25

Amphenol Connectors and Plugs



MINIATURE RACK PANEL & CABLE CONNECTORS

Miniature type connectors designed especially for interconnection of miniature electronic equipment. Molded of Blue Amphenol 1.501 dielectric. Silver base plated, gold finished contacts will not tarnish. All hardware is solid nickel-plated brass. Three types available, all interchangeable. Figs. A and B have threaded bodies for mounting to panels. Require $3/16$ " dia. mounting hole. This type also available with a locking clip (Fig. C) for mating with the hood and cable clamp type where a locking feature is desirable. Fig. D shows hood and cable clamp type. Overall diameter, hex nut type only $3/8$ ", cable clamp type, $3/4$ ". Overall length, cable clamp type, $1\ 1/8$ ". Av. shpg. wt., 5 oz. Write for quantity prices on 50 or more of any one type.

MALE CONNECTORS

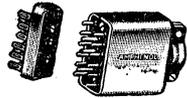
Stock No.	Mfr's Type	Contacts	Fig.	Description	NET EACH	
					1-9	10-49
40 H 632	126-011	5	B	Hex nut type, for panel mtg.	.76	.58
40 H 634	126-191	7	B	Hex nut type, for panel mtg.	1.14	.85
40 H 636	126-012	9	B	Hex nut type, for panel mtg.	.98	.73
40 H 644	126-217	5	D	Hood and cable clamp type	1.38	1.04
40 H 646	126-195	7	D	Hood and cable clamp type	1.52	1.15
40 H 648	126-220	9	D	Hood and cable clamp type	1.59	1.20
40 H 638	126-216	5	..	Hex nut type, with locking clip	.82	.62
40 H 640	126-197	7	..	Hex nut type, with locking clip	.98	.73
40 H 642	126-219	9	..	Hex nut type, with locking clip	1.04	.78

FEMALE CONNECTORS

Stock No.	Mfr's Type	Contacts	Fig.	Description	NET EACH	
					1-9	10-49
40 H 633	126-011	5	A	Hex nut type, for panel mtg.	1.20	.90
40 H 635	126-192	7	A	Hex nut type, for panel mtg.	1.71	1.28
40 H 637	126-013	9	A	Hex nut type, for panel mtg.	2.07	1.55
40 H 645	126-223	5	..	Hood and cable clamp type	1.79	1.34
40 H 647	126-196	7	..	Hood and cable clamp type	2.29	1.72
40 H 649	126-222	9	..	Hood and cable clamp type	2.65	1.99
40 H 639	126-218	5	C	Hex nut type, with locking clip	1.26	.95
40 H 641	126-198	7	C	Hex nut type, with locking clip	1.73	1.30
40 H 643	126-221	9	C	Hex nut type, with locking clip	2.12	1.59

MULTI-CONTACT PLUGS AND SOCKETS

Versatile, shielded connectors with 11, 15 and 20 contacts. Two types—cable and chassis. May be combined for "pull-out" rack mounting, inter-connecting several units, and extending conductors. Mica-filled phenolic plastic has high impact strength, low loss and low shrinkage. Non-rotating contacts are silver-plated with .0002" hard gold shell. Plating gives improved appearance, makes soldering easier and faster—no pre-tinning of solder cups is required. All have eyelets inserted in mounting holes for added strength, and interlocking barriers to prevent accidental shorting. Rated at 900 v., 60 cycles, AC. *Insert only; all others with can. Cable type, 4 oz., chassis type, 2 oz. Write for quantity prices on 50 or more of any one type.



Stock No.	Mfr's Type	Total Contacts	Contacts		Description	NET EACH	
			No. 16	No. 20		1-9	10-49
40 H 530	126-804*	11	2	9	Chassis plug	1.04	.78
40 H 531	126-805*	11	2	9	Chassis socket	.82	.62
40 H 532	126-809	11	2	9	Cable plug	1.65	1.23
40 H 533	126-808	11	2	9	Cable socket	1.41	1.06
40 H 534	126-151*	15	3	12	Chassis plug	1.26	.95
40 H 535	126-150*	15	3	12	Chassis socket	.87	.66
40 H 536	126-152	15	3	12	Cable plug	1.91	1.43
40 H 537	126-153	15	3	12	Cable socket	1.52	1.15
40 H 538	126-806*	20	4	16	Chassis plug	1.79	1.34
40 H 539	126-807*	20	4	16	Chassis socket	2.47	1.81
40 H 540	126-811	20	4	16	Cable plug	2.50	1.92
40 H 541	126-810	20	4	16	Cable socket	2.23	1.68
40 H 569	126-813*	20	20	.....	Chassis plug	2.62	1.96
40 H 568	126-812*	20	20	.....	Chassis socket	1.47	1.11

MULTI-WIRE CONNECTORS

Matching Amphenol male and female cable connectors. Take cables up to $7/8$ " O.D. Male types can be plugged into chassis-mounted tube sockets. Size, $1\ 1/2$ "x $1\ 1/2$ ". Av. shpg. wt., 3 oz.



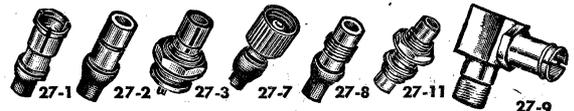
FEMALE

Stock No.	Mfr's Type	Contacts	NET EACH		
			1-99	100-249	250-Up
40 H 524	78-PF4	4	17¢	14¢	13¢
40 H 525	78-PF5	5	18¢	15¢	14¢
40 H 526	78-PF6	6	19¢	16¢	14¢
40 H 527	78-PF7S	7S	20¢	16 1/2¢	15¢
40 H 528	78-PF8	8 octal	19¢	16¢	14¢
40 H 516	78-PF9	9	21¢	17¢	15 1/2¢
40 H 517	78-PF11	11	22¢	18 1/2¢	16 1/2¢

MALE

Stock No.	Mfr's Type	Contacts	NET EACH		
			1-99	100-249	250-Up
40 H 504	86-PM4	4	21¢	17 1/2¢	16¢
40 H 505	86-PM5	5	21¢	17 1/2¢	16¢
40 H 506	86-PM6	6	22¢	18 1/2¢	17¢
40 H 507	86-PM7S	7S	23¢	19¢	17¢
40 H 508	86-PM8	8	22¢	18¢	16¢
40 H 512	86-PM9	9	22¢	18 1/2¢	17¢
40 H 513	86-PM11	11	23¢	19 1/2¢	17 1/2¢

Amphenol Cable Clamp, Type 79-CC4. For use with above connectors. Relies strain on solder connections. Shpg. wt., 5 oz. 5¢
50 to 149, EACH.....4¢ 150 or More, EACH.....3 1/2¢



SUBMINIATURE SUBMINIATURE RF CONNECTORS

Subminiature RF connectors for use with Amphenol subminiature coaxial cable. Feature high efficiency, plus space-saving design. Use screw-on types with each other; push-on connectors only with push-on types; 75-ohm and 50-ohm types cannot be inter-mixed. Plugs fit jacks, bulkhead jacks or receptacles. For cables use plugs and jacks. Use bulkhead jacks for chassis or panel mounting if internal wiring is coax; use receptacles if internal wiring is non-coax. Feed-through types are for permanent feed-through connection. All connectors have gold-plated bodies and contacts. Shpg. wt. 3 oz. Write for quantity prices on 50 or more of any one type.

50 OHM PUSH-ON

Stock No.	Mfr's Type	Description	For Amphenol Cables	NET EACH	
				1-9	10-49
40 H 470	27-1	Plug	21-598 (RG-174/U)	.91	.69
40 H 495	27-6	Right-Angle Plug	21-598 (RG-174/U)	2.79	2.10
40 H 471	27-2	Jack	21-598 (RG-174/U)	.91	.69
40 H 472	27-3	Receptacle	.....	.94	.71
40 H 473	27-4	Jack, Bulkhead	21-598 (RG-174/U)	1.09	.81
40 H 474	27-5	Feed-Through	.....	1.47	1.11
40 H 045	27-801	Terminator 521-596	21-598 (RG-174/U)	.62	.46

50 OHM SCREW-ON

Stock No.	Mfr's Type	Description	For Amphenol Cables	NET EACH	
				1-9	10-49
40 H 475	27-7	Plug	21-598 (RG-174/U)	.82	.62
40 H 476	27-8	Jack	21-598 (RG-174/U)	.85	.67
40 H 477	27-9	Receptacle	.....	.94	.71
40 H 478	27-10	Jack, Bulkhead	21-598 (RG-174/U)	1.00	.75
40 H 479	27-11	Feed-Through	.....	1.62	1.22
40 H 480	27-12	Receptacle, Hermetic	.....	2.20	1.66
40 H 496	27-26	Right-Angle Plug	21-598 (RG-174/U)	2.35	1.76
40 H 046	27-28	Adapter, Submin-BNC	.....	2.94	2.20
40 H 047	27-800	Receptacle, prntd-rcrt	.....	.73	.55

75 OHM PUSH-ON

Stock No.	Mfr's Type	Description	For Amphenol Cables	NET EACH	
				1-9	10-49
40 H 481	27-13	Plug	21-597	1.12	.84
40 H 497	27-18	Right-Angle Plug	21-597	3.00	2.25
40 H 458	27-15	Receptacle	.....	1.12	.84

75 OHM SCREW-ON

Stock No.	Mfr's Type	Description	For Amphenol Cables	NET EACH	
				1-9	10-49
40 H 461	27-19	Plug	21-597	1.03	.77
40 H 498	27-27	Right-Angle Plug	21-597	2.99	1.94
40 H 462	27-20	Jack	21-597	1.00	.75
40 H 463	27-21	Receptacle	.....	1.09	.81
40 H 464	27-22	Jack, Bulkhead	21-597	1.32	.99

CRIMPING TOOLS FOR SUBMINAX CONNECTORS

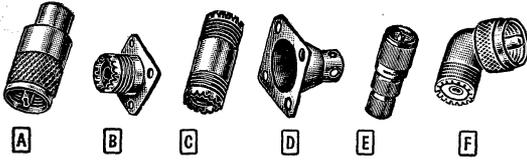
Stock No.	Mfr's Type	Description	For Amphenol Cables	Wt. Oz.	NET EACH
40 H 468	27-901	Crimp Tool	21-597	12	14.00

MINIATURE CABLE CONNECTORS

Last letter in Type No. indicates long ($1\ 1/2$ " or short ($1\ 1/4$ " or $1\ 1/8$ " or $1\ 1/16$ " or $1\ 1/32$ " or $1\ 1/64$ " or $1\ 1/128$ " or $1\ 1/256$ " or $1\ 1/512$ " or $1\ 1/1024$ " or $1\ 1/2048$ " or $1\ 1/4096$ " or $1\ 1/8192$ " or $1\ 1/16384$ " or $1\ 1/32768$ " or $1\ 1/65536$ " or $1\ 1/131072$ " or $1\ 1/262144$ " or $1\ 1/524288$ " or $1\ 1/1048576$ " or $1\ 1/2097152$ " or $1\ 1/4194304$ " or $1\ 1/8388608$ " or $1\ 1/16777216$ " or $1\ 1/33554432$ " or $1\ 1/67108864$ " or $1\ 1/134217728$ " or $1\ 1/268435456$ " or $1\ 1/536870912$ " or $1\ 1/1073741824$ " or $1\ 1/2147483648$ " or $1\ 1/4294967296$ " or $1\ 1/8589934592$ " or $1\ 1/17179869184$ " or $1\ 1/34359738368$ " or $1\ 1/68719476736$ " or $1\ 1/137438953472$ " or $1\ 1/274877906944$ " or $1\ 1/549755813888$ " or $1\ 1/1099511627776$ " or $1\ 1/2199023255552$ " or $1\ 1/4398046511104$ " or $1\ 1/8796093022208$ " or $1\ 1/17592186044416$ " or $1\ 1/35184372088832$ " or $1\ 1/70368744177664$ " or $1\ 1/140737488355328$ " or $1\ 1/281474976710656$ " or $1\ 1/562949953421312$ " or $1\ 1/1125899906842624$ " or $1\ 1/2251799813685248$ " or $1\ 1/4503599627370496$ " or $1\ 1/9007199254740992$ " or $1\ 1/18014398509481984$ " or $1\ 1/36028797018963968$ " or $1\ 1/72057594037927936$ " or $1\ 1/14411518807585584$ " or $1\ 1/28823037615171168$ " or $1\ 1/57646075230342336$ " or $1\ 1/115292150460684672$ " or $1\ 1/230584300921369344$ " or $1\ 1/461168601842738688$ " or $1\ 1/922337203685477376$ " or $1\ 1/1844674407370954752$ " or $1\ 1/3689348814741909504$ " or $1\ 1/7378697629483819008$ " or $1\ 1/14757395258967638016$ " or $1\ 1/29514790517935276032$ " or $1\ 1/59029581035870552064$ " or $1\ 1/118059162071741104128$ " or $1\ 1/236118324143482208256$ " or $1\ 1/472236648286964416512$ " or $1\ 1/944473296573928833024$ " or $1\ 1/1888946593147857666048$ " or $1\ 1/3777893186295715332096$ " or $1\ 1/7555786372591430664192$ " or $1\ 1/15111572745182861328384$ " or $1\ 1/30223145490365722656768$ " or $1\ 1/60446290980731445313536$ " or $1\ 1/120892581961462890627072$ " or $1\ 1/241785163922925781254144$ " or $1\ 1/483570327845851562508288$ " or $1\ 1/967140655691703125011576$ " or $1\ 1/193428131138340625023552$ " or $1\ 1/386856262276681250047104$ " or $1\ 1/773712524553362500094208$ " or $1\ 1/154742504910672500188416$ " or $1\ 1/309485009821345000376832$ " or $1\ 1/618970019642690000753664$ " or $1\ 1/1237940039285380001507328$ " or $1\ 1/2475880078570760003014656$ " or $1\ 1/4951760157141520006029312$ " or $1\ 1/9903520314283040012058624$ " or $1\ 1/1980704062856608024117248$ " or $1\ 1/3961408125713216048234496$ " or $1\ 1/7922816251426432096468992$ " or $1\ 1/15845632502852864193737856$ " or $1\ 1/31691265005705728386475712$ " or $1\ 1/63382530011411456772951424$ " or $1\ 1/126765060022822913545902848$ " or $1\ 1/25353012004564582709180576$ " or $1\ 1/50706024009129165418361152$ " or $1\ 1/101412048018258330836722304$ " or $1\ 1/202824096036516661673444608$ " or $1\ 1/405648192073033323346889216$ " or $1\ 1/811296384146066646693778432$ " or $1\ 1/1622592768292133293887568864$ " or $1\ 1/3245185536584266587775137728$ " or $1\ 1/6490371073168533175550275456$ " or $1\ 1/129807421463706663511005511104$ " or $1\ 1/259614842927413327022011022208$ " or $1\ 1/519229685854826654044022044416$ " or $1\ 1/1038459371709653308088044088832$ " or $1\ 1/2076918743419306616177608177667648$ " or $1\ 1/415383748683861323235521755335331104$ " or $1\ 1/830767497367722646471104351070662208$ " or $1\ 1/1661534994735445292942207021413244416$ " or $1\ 1/3323069989470890585884414042826488928$ " or $1\ 1/664613997894178117176882808565297776$ " or $1\ 1/1329227995788356234353765617305955552$ " or $1\ 1/265845599157671246870753223461191104$ " or $1\ 1/53169119831534249374150644692222208$ " or $1\ 1/1063382396630684987483012893$

Amphenol Connectors, Sockets and Plugs

RF CABLE CONNECTORS



TYPE 83 COAXIAL CONNECTORS

Meet government specs. *Polystyrene insulation. †Mica-filled insert. ‡For twin coax RG-22/U and RG-22A/U cable. 3 oz.

UHF Small Single Contact. Popular connectors for any RF application.

Stock No.	Military No.	Mfr's Type	Fig.	Description	NET EACH	
					1-9	10-49
40H 357	UG-106/U, M-360	83-1H	D	For RG/U 8, 9, 10, 11, 12, 13, 63	.26	.22
42H 450	UG-111/U	83-750	A	Plug for RG/U 59, 62, 71	.98	.81
40H 360	UG-175/U	83-185	.....	Reducing Adapter for RG/U 29, 55	.20	.17
40H 359	UG-176/U	83-168	.....	Reducing Adapter for RG/U 59, 62	.20	.17
40H 351	UG-177/U	83-765	D	For RG/U 29, 55, 58A	.29	.25
40H 373	UG-203/U, 49482	83-776	A	For RG/U 29, 55, 58A, 59, 62, 63, 71	1.11	.92
40H 356	UG-363/U, PL-274	83-1F*	.....	Feed-Through Connector	.94	1.62
40H 353	UG-646/U, M-359	83-1AP*	F	Right Angle Plug Adapter	1.66	1.38
42H 451	UG-372/U	83-1HP	D	Hood for RG/U 8, 9, 10, 11, 12, 13, 63, 65	.32	.27
40H 354	M-358, 49199	83-1T*	.....	Adapter	2.59	2.16
42H 452	M-359A, 49192	83-58	.....	Right Angle Adapter	2.11	1.75
40H 355	PL-258, 49191	83-1J*	C	Straight Adapter	1.13	.94
40H 350	PL-259, 49190	83-1SP†	A	For RG/U 8, 9, 10, 11, 12, 13, 63, 65	.72	.60
42H 454	PL-259A, 49195	83-756	A	As above, but Teflon	1.39	1.16
40H 372	PL-259A, 49195	83-1SPN	A	For RG/U 8, 9, 10, 11, 12, 13, 63, 65	.98	.81
40H 352	SO-239, 49194	83-1R†	B	Receptacle Chassis Type	.73	.62
42H 453	SO-239A	83-1AC	B	Receptacle	1.78	1.49
40H 358	.....	83-1AC	.....	Cap and Chain	.55	.45
42H 455	SO-239, 49194	83-1RTY*	B	Receptacle	.73	.62
42H 456	.....	83-59	.....	Rt.-ang. plug for RG/U 8, 9, 10, 11, 12, 13, 63, 6	2.55	2.12
42H 457	PL-259, 49190	83-822	A	Plug-Teflon	1.24	1.03

UHF Small Twin Contact. For use with 2-conductor coax cables.

Stock No.	Military No.	Mfr's Type	Fig.	Description	NET EACH	
					1-9	10-49
40H 361	UG-102/U, PL-284	83-22SP†	A	Straight plug	1.20	1.00
40H 362	UG-103/U, SO-264	83-22R†	B	Chassis receptacle	.98	.81
40H 374	UG-104/U, PL-293	83-22AP†	.....	Right-angle adapter	2.44	2.03
40H 511	UG-105/U, PL-285	83-22J	C	Straight Adapter	1.80	1.51
40H 518	PL-275	83-22F	.....	Straight Bulkhead Adapter	2.85	2.37
42H 458	.....	83-65	.....	Reduc'g Adptr. .250 ID	.22	.19

Solderless Type UHF Plug Connectors.

Stock No.	Mfr's Type	Description	NET EACH	
			1-9	10-49
40H 509	83-850	Plug for RG/U 11	1.35	1.13
40H 510	83-851	Plug for RG/U 8, 9, 10, 11, 12, 13, 63, 65	1.18	.98

SOCKETS AND PLUGS

Single-contact sockets and plugs. Molded bakelite bodies. Sockets mount in 1/4" hole. Supplied with Amphenol 2-11 retainer ring. Contacts recessed 1/8" to prevent shorts and possibility of shock from exposed metal. Shpg. wt., 1 oz.



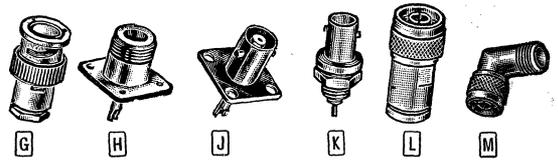
Stock No.	Mfr's Type	Description	NET EACH		
			1-9	100-249	250-Up
41 H 153	71-11	Plug. Red. For 1/2" socket.			
41 H 154	71-11	Plug. Black. Same as above.	.03	.025	.023
41 H 156	71-11M	Plug. Red. For 1/4" socket.			
41 H 157	71-11M	Plug. Black. Same as above.			
41 H 158	71-1S	Plug. Red. For 1/2" socket.	.03	.025	.023
41 H 159	71-1S	Plug. Black. Same as above.			
41 H 160	78-11	Socket. Red. For 1/2" plug.			
41 H 161	78-11	Socket. Black. Same as above.			
41 H 162	78-11M	Socket. Red. For 1/4" plug.	.05	.043	.039
41 H 163	78-11M	Socket. Black. Same as above.			
41 H 164	78-1P	Socket. Red. Std. .080" phone tip.			
41 H 165	78-1P	Socket. Black. Same as above.			
41 H 166	78-1S	Socket. Red. For 1/2" plug.	.05	.043	.039
41 H 167	78-1S	Socket. Black. Same as above.			

TYPE 71 PLUGS

Compact, efficient, high-dielectric plugs. Ideal for all plug-in connections where space is limited. Excellent for transmitters, receivers, intercoms, etc. Body is made of high quality bakelite. Molded ring allows firm, non-slip finger grip. Securely anchored, nickel-plated brass prongs; deeply recessed to prevent shorts caused by pulled back insulation. Easily soldered. Contacts are polarized to assure proper connection. For cables with up to six conductors. Fit Amphenol 78-S series miniature sockets on page 189. Av. shpg. wt., 2 oz.



Stock No.	Mfr's Type	Prongs	NET EACH		
			1-9	100-249	250-Up
40 H 177	71-3S	3	.065	.055	.05
40 H 169	71-4S	4	.08	.07	.063
41 H 149	71-5S	5	.09	.075	.068
40 H 179	71-6S	6	.10	.085	.077



TYPES 82 AND 31 COAXIAL CONNECTORS

A wide selection of highly dependable, weatherproof coaxial connectors. Designed to meet government specifications.

Type N Connectors. Low voltage. 50 ohms except *70 ohms. 3 oz.

Stock No.	Military No.	Mfr's Type	Fig.	Description	NET EACH	
					1-9	10-49
42H 459	UG-18B/U	82-86	L	Plug	2.11	1.75
42H 460	UG-18C/U	82-203	.....	Plug for RG/U 8, 9, 10	2.64	2.20
40H 313	UG-21B/U	82-61	.....	Plug for RG/U 8, 9, 10	1.87	1.56
42H 466	UG-21D/U	82-202	.....	Panel Jack for RG/U 8, 9, 10	2.53	2.11
40H 314	UG-22B/U	82-62	.....	Panel Jack for RG/U 8, 9, 10	1.76	1.47
40H 315	UG-23B/U	82-63	.....	Jack for RG/U 8, 9, 10	1.71	1.43
40H 520	UG-27A/U	82-64	.....	Right-Angle Adapter	3.39	2.83
42H 462	UG-27B/U	82-98	M	Right-Angle Adapter	3.53	2.94
42H 463	UG-27C/U	82-213	M	Right-Angle Adapter	4.33	3.61
42H 464	UG-28A/U	82-99	.....	T Adapter	3.81	3.18
40H 521	UG-29A/U	82-65	.....	Straight Adapter	2.05	1.71
40H 522	UG-30/U	82-66	.....	Bulkhead Adapter	3.00	2.50
40H 529	UG-58A/U	82-97	.....	Receptacle	1.18	.98
40H 312	UG-58/U	82-248*	H	Receptacle	1.20	1.00
40H 515	UG-96A/U	82-54*	.....	Plug for RG/U 11, 12, 13	2.20	1.83
40H 523	UG-96A/U	82-90*	.....	Panel Jack for RG/U 11, 12	2.80	2.34
40H 519	UG-107A/U	82-101	.....	T Adapter	5.44	4.54
40H 558	UG-107B/U	82-102	.....	T Adapter	4.39	3.50
42H 465	UG-680/U	82-811	.....	Bulkhead Receptacle	2.61	2.18
42H 466	MX-913/U	82-106	.....	Cap and Chain	.61	.51
40H 559	UG-167A/U	82-104	.....	Plug for RG/U 17, 18	5.35	4.46
40H 560	UG-118/U	82-312	.....	Plug, RG/U 8, 9, 10, 87A,	2.46	2.05
40H 561	UG-118B/U	82-313	.....	Jack, 115, 115A	2.11	1.75
40H 562	UG-118T/U	82-314	.....	Panel Jack	2.24	1.87
42H 467	.....	82-835	.....	Right Angle Plug	4.96	4.14

Type HN Connectors. High voltage. 50 ohms. Av. shpg. wt., 3 oz.

Stock No.	Military No.	Mfr's Type	Fig.	Description	NET EACH	
					1-9	10-49
40H 375	UG-59A/U	82-38	.....	Plug for RG/U 8, 9, 10	3.11	2.60
40H 317	UG-59B/U	82-80A	.....	Plug for RG/U 8, 9, 10	3.37	2.81
42H 468	UG-496/U	82-82	.....	Receptacle	2.28	1.90
40H 318	UG-50/U	82-805	.....	Receptacle	3.18	2.65
40H 563	UG-1213/U	82-320	.....	Plug for RG/U 8, 9, 10, 87A,	4.35	3.63
40H 514	UG-1214/U	82-321	.....	Panel Jack, 115, 115A	4.90	4.01
42H 469	MX-564/U	82-48	.....	Armor Clamp	5.12	4.26
42H 470	.....	82-833	.....	Right Angle Plug	4.64	3.86

Type C and LC Connectors. Shpg. wt., 3 oz.

Stock No.	Military No.	Mfr's Type	Fig.	Description	NET EACH	
					1-9	10-49
40H 488	UG-154/U	82-59	.....	Plug for RG/U 17, 18	10.92	9.10
42H 471	UG-568/U	82-504	.....	Receptacle	1.91	1.60
40H 489	UG-573A/U	82-530	.....	Plug for RG/U 8, 9, 10	3.20	2.67
42H 472	MX-1142/U	82-512	.....	Cap and Chain	1.02	.85

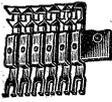
Push-On Connectors. Av. shpg. wt., 3 oz.

Stock No.	Military No.	Mfr's Type	Fig.	Description	NET EACH	
					1-9	10-49
42H 473	82-830	.....	Plug	.50	.42
42H 474	82-831	.....	Bulkhead Receptacle	.89	.74
42H 475	82-832	.....	Plug	.52	.43

BNC Type Connectors. Small lightweight, weatherproof connectors. Low voltage, single contact types for use with 50 ohm RG-55/U and RG-58/U cables except *for use with 70 ohm RG-59/U, RG-62/U and RG-71/U. †Pressurized. Av. shpg. wt., 3 oz.

Stock No.	Military No.	Mfr's Type	Fig.	Description	NET EACH	
					1-9	10-49
40H 391	UG-88/U	31-002	G	Plug	1.09	.91
42H 476	UG-88B/U	31-018	G	Plug	1.18	.96
42H 477	UG-88C/U	31-202	G	Plug	1.52	1.27
40H 393	UG-89/U	31-005	.....	Jack	1.18	.98
42H 480	UG-201/U	31-830	.....	Adapter N to BNC	2.61	2.18
42H 481	UG-254A/U	31-016†	.....	Bulkhead Receptacle	3.09	2.58
40H 396	UG-260/U	31-012*	.....	Plug	1.16	.96
42H 478	UG-260A/U	31-021*	G	Plug	1.11	.92
42H 479	UG-260B/U	31-212	G	Plug	1.46	1.22
40H 397	UG-261/U	31-015*	.....	Jack	1.22	1.02
40H 395	UG-262/U	31-011*	.....	Panel Jack	1.26	1.05
40H 493	UG-273/U	31-028	.....	BNC to UHF Adapter	1.89	1.58
42H 482	UG-274/U	31-008	.....	T Adapter	3.26	2.89
42H 482	UG-274A/U	31-208	.....	T Adapter	3.46	2.99
40H 392	UG-290/U	31-003	.....	Receptacle	1.00	.83
42H 483	UG-290A/U	31-203	J	Receptacle	1.13	.94
40H 399	UG-291/U	31-001	.....	Panel Jack	1.24	1.03
40H 394	UG-306/U	31-009	.....	Right Angle Adapter	2.57	2.14
42H 484	UG-349A/U	31-217	.....	Adapter N to BNC	2.74	2.28
42H 485	UG-447/U	31-817	.....	Receptacle	1.09	.91
42H 486	UG-491A/U	31-218	.....	Double Plug Adapter	2.55	2.12
40H 494	UG-492A/U	31-220	.....	Adapter	3.05	2.54
40H 398	UG-657/U	31-102	K	Receptacle	1.61	1.34
42H 487	UG-909/U	31-206	.....	Panel Jack	1.96	1.64
42H 488	UG-910/U	31-207	.....	Panel Jack	1.77	1.47
42H 489	UG-913/U	31-204	.....	Angle Plug	3.79	3.09
42H 490	UG-914/U	31-219	.....	Double Jack Adapter	1.16	.96
42H 491	UG-1094/U	31-221	.....	Bulkhead Jack	1.16	.96
42H 492	UG-1098/U	31-222	.....	Angle Bulkhead Jack	2.73	2.26
40H 490	CW-123/U	31-006	.....	Cap and Chain	.50	.42
42H 493	CW-123A/U	31-026	.....	Cap and Chain	.52	.43
40H 491	CW-155/U	31-007				

Cinch-Jones Terminals & Fanning Strips



FANNING STRIPS

For neat, highly dependable terminal wiring. Insure correct, positive firm connections. Ideal for cable or harness wiring. These units simplify assembly—connections can be made before putting strip into assembly. Facilitate disconnecting sub-assemblies for servicing. Last letter in Type No. indicates right or left mounting hole position. Laminated bakelite. Terminals made of .032" thick brass. Av. shpg. wt., 3 oz.

Series 160L. Fit Series 140 barrier terminals at right. Terminals are mounted on 3/32" bakelite, 1/2" wide and on 3/8" centers.

Stock No.	Mfr's Type	Term.	NET EACH		
			1-24	25-99	100-499
41 H 808	2-160L	2	8¢	7¢	6 1/2¢
41 H 809	3-160L	3	12¢	11¢	10¢
41 H 812	4-160L	4	15¢	13¢	12 1/2¢
41 H 813	5-160L	5	19¢	17¢	16¢
41 H 814	6-160L	6	23¢	21¢	20¢
41 H 817	8-160L	8	30¢	28¢	26¢
41 H 818	10-160L	10	37¢	34¢	32¢
41 H 819	12-160L	12	45¢	40¢	38¢

Series 160R. Fit Series 140 barrier terminals at right. Terminals are mounted on 3/32" bakelite, 1/2" wide and on 3/8" centers.

Stock No.	Mfr's Type	Term.	NET EACH		
			1-24	25-99	100-499
40 H 956	2-160R	2	8¢	7¢	6 1/2¢
40 H 957	3-160R	3	12¢	11¢	10¢
40 H 958	4-160R	4	15¢	13¢	12 1/2¢
40 H 959	5-160R	5	19¢	17¢	16¢
40 H 960	6-160R	6	23¢	21¢	20¢
40 H 961	8-160R	8	30¢	28¢	26¢
40 H 962	10-160R	10	37¢	34¢	32¢
40 H 963	12-160R	12	45¢	40¢	38¢

Series 161L. Fit Series 141 barrier terminals at right. Terminals are mounted on 3/32" bakelite, 3/8" wide and on 7/8" centers.

Stock No.	Mfr's Type	Term.	NET EACH		
			1-24	25-99	100-499
41 H 822	2-161L	2	8¢	7 1/2¢	7¢
41 H 823	3-161L	3	13¢	11¢	10 1/2¢
41 H 824	4-161L	4	16¢	14¢	13¢
41 H 827	5-161L	5	20¢	18¢	16 1/2¢
41 H 828	6-161L	6	24¢	22¢	20¢
41 H 829	8-161L	8	30¢	27¢	26¢
41 H 832	10-161L	10	38¢	34¢	32 1/2¢
41 H 833	12-161L	12	45¢	40¢	38 1/2¢

Series 161R. Fit Series 141 barrier terminals at right. Terminals are mounted on 3/32" bakelite, 3/8" wide and on 7/8" mounting centers.

Stock No.	Mfr's Type	Term.	NET EACH		
			1-24	25-99	100-499
40 H 964	2-161R	2	8¢	7 1/2¢	7¢
40 H 965	3-161R	3	13¢	11¢	10 1/2¢
40 H 966	4-161R	4	16¢	14¢	13¢
40 H 967	5-161R	5	20¢	18¢	16 1/2¢
40 H 968	6-161R	6	24¢	22¢	20¢
40 H 969	8-161R	8	30¢	27¢	26¢
40 H 970	10-161R	10	38¢	34¢	32 1/2¢
40 H 971	12-161R	12	45¢	40¢	38 1/2¢

Series 162L. Fit Series 142 barrier terminals at right. Terminals are mounted on 3/32" bakelite, 3/8" wide and on 7/8" centers.

Stock No.	Mfr's Type	Term.	NET EACH		
			1-24	25-99	100-499
41 H 834	2-162L	2	10¢	9¢	8 1/2¢
41 H 843	3-162L	3	14¢	13¢	11 1/2¢
41 H 844	4-162L	4	17¢	15¢	14 1/2¢
41 H 845	5-162L	5	21¢	19¢	17 1/2¢
41 H 846	6-162L	6	25¢	23¢	21 1/2¢
41 H 847	8-162L	8	32¢	29¢	27 1/2¢
41 H 848	10-162L	10	40¢	36¢	34¢
41 H 849	12-162L	12	47¢	42¢	40¢

Series 162R. Fit Series 142 barrier terminals at right. Terminals are mounted on 3/32" bakelite, 3/8" wide and on 7/8" centers.

Stock No.	Mfr's Type	Term.	NET EACH		
			1-24	25-99	100-499
40 H 972	2-162R	2	10¢	9¢	8 1/2¢
40 H 973	3-162R	3	14¢	13¢	11 1/2¢
40 H 974	4-162R	4	17¢	15¢	14 1/2¢
40 H 975	5-162R	5	21¢	19¢	17 1/2¢
40 H 976	6-162R	6	25¢	23¢	21 1/2¢
40 H 977	8-162R	8	32¢	29¢	27 1/2¢
40 H 978	10-162R	10	40¢	36¢	34¢
40 H 979	12-162R	12	47¢	42¢	40¢

CABLE CLAMPS



Cable clamps for fanning strips above. Made of nickel-plated brass, with 6-32 round head screws. Serve as strain relief and anchor cable securely. Sizes shown are I.D. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Size	NET EACH		
			1-24	25-99	100-499
41 H 852	CC-161-4	1/4"	8¢	7 1/2¢	7¢
41 H 853	CC-161-6	3/8"			
41 H 854	CC-161-8	1/2"			
41 H 857	CC-161-10	5/8"	8¢	7 1/2¢	7¢
41 H 858	CC-161-12	3/4"			
41 H 859	CC-161-14	7/8"			

SERIES 2000 TERMINAL STRIPS

Terminals are made of .019" brass, tin-plated, and spaced on 3/8" centers. Molded bakelite insulation. Mounting brackets are made of cadmium-plated steel. Mounting holes at each end of bracket. Av. shpg. wt., 2 oz.

Stock No.	Mfr's Type	Term.	Mtg. Ctrs.	NET EACH		
				1-24	25-99	100-499
41 H 687	2002	2	1"	6¢	5 1/2¢	5¢
41 H 688	2003	3	1 1/8"	7¢	6 1/2¢	6¢
41 H 689	2004	4	1 1/4"	8¢	7¢	6 1/2¢
41 H 690	2005	5	1 1/2"	9¢	8¢	7 1/2¢
41 H 691	2006	6	2 1/4"	10¢	9¢	8¢
41 H 693	2008	8	2 1/2"	11¢	10¢	9 1/2¢
41 H 695	2010	10	3 1/2"	13¢	12¢	11¢
41 H 697	2012	12	4 1/2"	15¢	14¢	12 1/2¢

ARRIER TERMINALS



Barriers between each terminal provide increased insulation. Excellent for industrial and experimental applications. Barriers follow edge of strips and terminate at base. Make a long leakage path and prevent direct shorts caused by frayed wires at the terminals. Base is molded bakelite, with mounting holes at ends. Eyelets and binder screws of nickel-plated brass; terminals of hot tin-finish brass. Barrier-type terminals and fanning strips, when used together, insure positive contact and firm connections. No. 140 terminal strips have 5-40x3/4" binder head screws, 1/4" metal-to-metal spacing. No. 141 terminal strips have 6-32x1/4" binder head screws, 3/8" metal-to-metal spacing. No. 142 terminal strips have 8-32x3/8" binder head screws, 3/8" metal-to-metal spacing. Av. shpg. wt., 5 oz.

Series 140. Metal-to-metal spacing over bakelite 1/4". Base 7/8" wide x 3/2" high. 3/8" centers. Use with Series 160 fanning strips.

Stock No.	Mfr's Type	Term.	NET EACH		
			1-24	25-99	100-499
41 H 580	1-140	1	.09	.08	.075
41 H 580	2-140	2	.14	.13	.12
41 H 581	3-140	3	.20	.18	.165
41 H 583	4-140	4	.24	.23	.21
41 H 587	5-140	5	.30	.28	.25
41 H 582	6-140	6	.34	.31	.30
41 H 581	7-140	7	.40	.36	.34
41 H 584	8-140	8	.45	.41	.39
41 H 582	9-140	9	.51	.45	.43
41 H 585	10-140	10	.56	.50	.48
41 H 583	11-140	11	.61	.55	.52
41 H 586	12-140	12	.66	.60	.56
41 H 584	13-140	13	.72	.64	.61
41 H 585	14-140	14	.77	.69	.66
41 H 586	15-140	15	.82	.74	.70
41 H 587	16-140	16	.87	.78	.75
41 H 588	17-140	17	.92	.83	.79
41 H 589	18-140	18	.98	.88	.83
41 H 590	19-140	19	1.03	.93	.88
41 H 591	20-140	20	1.08	.97	.92
41 H 592	21-140	21	1.14	1.02	.97

Series 141. Metal-to-metal spacing over bakelite 3/8". Base 1 1/8" wide x 1/2" high. 7/8" centers. Use with Series 161 fanning strips.

Stock No.	Mfr's Type	Term.	NET EACH		
			1-24	25-99	100-499
41 H 835	2-141	2	.19	.17	.16
41 H 835	3-141	3	.24	.22	.21
41 H 837	4-141	4	.31	.28	.27
41 H 842	5-141	5	.38	.35	.33
41 H 838	6-141	6	.44	.40	.38
41 H 839	8-141	8	.58	.52	.50
41 H 840	10-141	10	.72	.65	.61
41 H 841	12-141	12	.84	.76	.72
41 H 876	14-141	14	.98	.88	.84
41 H 876	16-141	16	1.12	1.01	.97
41 H 878	18-141	18	1.24	1.12	1.07
41 H 879	20-141	20	1.38	1.24	1.18

Series 142. Metal-to-metal spacing over bakelite 3/8". Base 1 5/8" wide x 3/8" high. 3/8" centers. Use with Series 162 fanning strips.

Stock No.	Mfr's Type	Term.	NET EACH		
			1-24	25-99	100-499
41 H 670	2-142	2	.22	.20	.18
41 H 671	3-142	3	.30	.28	.26
41 H 672	4-142	4	.38	.34	.33
41 H 673	5-142	5	.46	.42	.39
41 H 674	6-142	6	.54	.49	.46
41 H 676	8-142	8	.71	.64	.60
41 H 678	10-142	10	.87	.78	.75
41 H 680	12-142	12	1.04	.94	.88
41 H 881	13-142	13	1.12	1.01	.95
41 H 885	14-142	14	1.20	1.08	1.02
41 H 885	15-142	15	1.28	1.16	1.11
41 H 884	16-142	16	1.36	1.22	1.16
41 H 886	17-142	17	1.44	1.29	1.23

ADAPTER SOLDER TERMINALS



Adapt barrier strips (listed above) to permit top-side or underside solder connections. Type 3/4W permits top-side soldering to barrier terminals; Type V is for underside solder connections. Made of brass; hot-tin finish. Assure positive solder connections. Fasten securely under binder head screws. Av. shpg. wt., per 10, 3 oz.

TYPE 3/4W				TYPE V			
Stock No.	Mfr's Type	For Series	Pkg. of 10	Stock No.	Mfr's Type	For Series	Pkg. of 10
41 H 887	3/4W-140	140	29¢	41 H 891	Y-140	140	29¢
41 H 888	3/4W-141	141	34¢	41 H 892	Y-141	141	34¢
41 H 889	3/4W-142	142	42¢	41 H 893	Y-142	142	42¢

SERIES 170 TERMINAL STRIPS



Terminal strips with extra-heavy solder terminals. Ideal for industrial users, experimental labs, etc. Black molded bakelite insulation, 3/8" wide, 1/4" thick. Terminals are mounted on 3/8" centers.

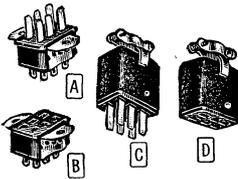
Mounting holes are 3/4" from center of end terminals. Terminals are .032" brass, tin plated. Double-notched solder terminals for rapid soldering or wrap-around connections. Compact, sturdy units. Av. shpg. wt., 5 oz.

Stock No.	Type	Term.	NET EACH		
			1-24, EA.	25-99, EA.	100-499, EA.
40 H 990	1-170	1	14¢	13¢	12 1/2¢
40 H 991	2-170	2	19¢	17¢	15 1/2¢
40 H 992	3-170	3	22¢	20¢	18¢
40 H 993	4-170	4	25¢	23¢	22¢
40 H 994	5-170	5	29¢	26¢	25¢
40 H 995	6-170	6	33¢	30¢	28¢
40 H 996	7-170	7	36¢	33¢	31¢
40 H 997	8-170	8	39¢	35¢	34¢
40 H 998	9-170	9	43¢	39¢	37¢
40 H 999	10-170	10	46¢	42¢	40¢

Cinch-Jones Plugs and Sockets

SERIES 300 PLUGS & SOCKETS

Compact units rated 730 volts rms at 10 amps. Metal caps; bakelite body. Phosphor-bronze socket contacts engage both sides of plug contacts. Units are polarized; plugs with 24 or more contacts have positioning pin. Plug contacts are 5/8" wide by 3/4" thick. *Round shell; others rectangular. Av. shpg. wt., 3 oz.



A PLUGS TYPE AB FOR CHASSIS MOUNTING

Contacts	Stock No.	Type	1-24, EA.	25-99, EA.	100-499, EA.
2	40 H 870*	P-302-AB	.19	.17	.16
3	40 H 871	P-303-AB	.24	.22	.20
4	40 H 872	P-304-AB	.25	.23	.22
6	40 H 873	P-306-AB	.31	.28	.27
8	40 H 874	P-308-AB	.37	.34	.32
10	40 H 875	P-310-AB	.42	.38	.365
12	40 H 876	P-312-AB	.48	.43	.405
15	40 H 877	P-315-AB	.63	.57	.535
18	40 H 878	P-318-AB	.78	.71	.675
21	40 H 879	P-321-AB	.98	.88	.835
24	40 H 819	P-324-AB	1.19	1.07	1.01
27	40 H 820	P-327-AB	1.40	1.26	1.19
30	40 H 821	P-330-AB	1.61	1.45	1.36
33	40 H 822	P-333-AB	1.80	1.63	1.53

B SOCKETS

Contacts	Stock No.	Type	1-24, EA.	25-99, EA.	100-499, EA.
2	40 H 880*	S-302-AB	.21	.19	.175
3	40 H 881	S-303-AB	.24	.23	.21
4	40 H 882	S-304-AB	.27	.24	.23
6	40 H 883	S-306-AB	.34	.31	.29
8	40 H 884	S-308-AB	.43	.39	.365
10	40 H 885	S-310-AB	.51	.46	.43
12	40 H 886	S-312-AB	.59	.53	.50
15	40 H 864	S-315-AB	.71	.66	.62
18	40 H 865	S-318-AB	.88	.79	.75
21	40 H 866	S-321-AB	1.09	.98	.925
24	40 H 867	S-324-AB	1.29	1.17	1.10
27	40 H 868	S-327-AB	1.50	1.35	1.27
30	40 H 869	S-330-AB	1.71	1.54	1.46
33	40 H 877	S-333-AB	1.92	1.72	1.63

C PLUGS TYPE CCT WITH CABLE CLAMP

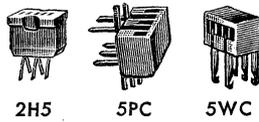
Contacts	Stock No.	Type	1-24, EA.	25-99, EA.	100-499, EA.
2	40 H 802*	P-302-CCT	.43	.39	.37
3	40 H 803	P-303-CCT	.46	.42	.395
4	40 H 804	P-304-CCT	.51	.45	.43
6	40 H 806	P-306-CCT	.56	.50	.475
8	40 H 808	P-308-CCT	.62	.56	.525
10	40 H 810	P-310-CCT	.69	.62	.585
12	40 H 812	P-312-CCT	.75	.68	.64
15	40 H 805	P-315-CCT	.98	.88	.835
18	40 H 807	P-318-CCT	1.19	1.07	1.01
21	40 H 809	P-321-CCT	1.40	1.25	1.19
24	40 H 811	P-324-CCT	1.66	1.49	1.40
27	40 H 813	P-327-CCT	1.87	1.69	1.59
30	40 H 814	P-330-CCT	2.18	1.96	1.85
33	40 H 815	P-333-CCT	2.33	2.10	1.98

D SOCKETS

Contacts	Stock No.	Type	1-24, EA.	25-99, EA.	100-499, EA.
2	40 H 852*	S-302-CCT	.44	.40	.375
3	40 H 853	S-303-CCT	.48	.43	.405
4	40 H 854	S-304-CCT	.51	.46	.435
6	40 H 856	S-306-CCT	.59	.53	.50
8	40 H 858	S-308-CCT	.69	.62	.58
10	40 H 860	S-310-CCT	.76	.69	.65
12	40 H 862	S-312-CCT	.87	.78	.745
15	40 H 850	S-315-CCT	1.09	.98	.925
18	40 H 851	S-318-CCT	1.29	1.17	1.10
21	40 H 855	S-321-CCT	1.50	1.35	1.25
24	40 H 857	S-324-CCT	1.77	1.60	1.50
27	40 H 859	S-327-CCT	1.98	1.78	1.65
30	40 H 861	S-330-CCT	2.28	2.06	1.94
33	40 H 863	S-333-CCT	2.44	2.20	2.07

SUB-MINIATURE TUBE AND TRANSISTOR SOCKETS

Used extensively for miniature radios and transmitters, hearing aids and other electronic equipment employing subminiature tubes. Molded from mica-filled low-loss bakelite. Silver-plated beryllium copper contacts. 4-prong tubes and G.E. transistors G11 and G11A fit 2H5 socket. All 3/2" deep. Shpg. wt., 2 oz.

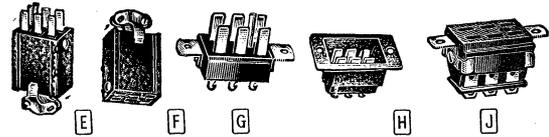


Stock No.	Type	Contacts	1-9, EA.	10-49, EA.	50-99, EA.
40 H 294	2H3	3	.20	.18	.165
40 H 245	2H5	5	.27	.24	.23
40 H 247	2H7	7	.30	.27	.24
40 H 242	8SM	8	.52	.47	.43

Transistor Types. 5-contact sockets designed for use with transistor circuits. Use type 5PC for printed circuits and 5WC for conventional wired circuits. Average shpg. wt., 2 oz.

Stock No.	Type	Size	1-9, EA.	10-49, EA.	50-99, EA.
40 H 249	5WC	3/8 x 7/32 x 1/64"	.39	.35	.32
40 H 252	5PC	1/32 x 1/64 x 1/2"	.36	.32	.30

SERIES 400 AND 2400 PLUGS & SOCKETS



Heavy-duty multiple-circuit type plugs and sockets. Series 400 rated at 1100 rms volts, 15 amps; series 2400 rated at 1700 rms volts, 15 amps. All have polarizing pins. Plug contact prongs are 1/4" wide by 3/4" thick. Bodies bakelite. Phosphor-bronze socket contacts engage both sides of flat plug contact prongs to minimize contact resistance. Series 2400 improved design offers longer leakage path permitting use on higher operating voltages. 2400 series plugs and sockets can be mated with 400 series. They are interchangeable mechanically, differing only in voltage ratings. Cap or panel mounting. *Similar to Fig. J. †Type DB recessed plugs take Type CCT (Fig. F) sockets. Av. shpg. wt., 5 oz.

E PLUGS TYPE CCT WITH CABLE CLAMP

Contacts	Stock No.	Type	1-24, EA.	25-99, EA.	100-499, EA.
2	40 H 910	P-402-CCT	.73	.66	.62
4	40 H 911	P-404-CCT	.89	.80	.755
6	40 H 912	P-406-CCT	1.04	.94	.885
8	40 H 913	P-408-CCT	1.19	1.07	1.01
10	40 H 914	P-410-CCT	1.34	1.21	1.14
12	40 H 915	P-412-CCT	1.49	1.34	1.27
2	40 H 833	P-2402-CCT	.90	.81	.765
4	40 H 834	P-2404-CCT	1.01	.91	.865
6	40 H 836	P-2406-CCT	1.14	1.02	.975
8	40 H 837	P-2408-CCT	1.25	1.13	1.07
10	40 H 838	P-2410-CCT	1.38	1.24	1.18
12	40 H 839	P-2412-CCT	1.52	1.34	1.30

F SOCKETS

Contacts	Stock No.	Type	1-24, EA.	25-99, EA.	100-499, EA.
2	40 H 920	S-402-CCT	.78	.71	.67
4	40 H 921	S-404-CCT	.99	.89	.84
6	40 H 922	S-406-CCT	1.20	1.08	1.03
8	40 H 923	S-408-CCT	1.40	1.26	1.20
10	40 H 924	S-410-CCT	1.62	1.45	1.38
12	40 H 925	S-412-CCT	1.81	1.63	1.55
2	40 H 840	S-2402-SB*	.70	.63	.595
4	40 H 841	S-2404-SB*	.82	.74	.70
6	40 H 842	S-2406-SB*	.94	.85	.81
8	40 H 843	S-2408-SB*	1.08	.97	.925
10	40 H 844	S-2410-SB*	1.22	1.10	1.09
12	40 H 845	S-2412-SB*	1.35	1.22	1.15

G PLUGS TYPE AB FOR CHASSIS MOUNTING

Contacts	Stock No.	Type	1-24, EA.	25-99, EA.	100-499, EA.
2	40 H 890	P-402-AB	.46	.41	.395
4	40 H 891	P-404-AB	.57	.51	.485
6	40 H 892	P-406-AB	.69	.62	.58
8	40 H 893	P-408-AB	.78	.71	.665
10	40 H 894	P-410-AB	.89	.80	.755
12	40 H 895	P-412-AB	.98	.88	.835

J SOCKETS

Contacts	Stock No.	Type	1-24, EA.	25-99, EA.	100-499, EA.
2	40 H 900	S-402-AB	.52	.47	.445
4	40 H 901	S-404-AB	.69	.62	.58
6	40 H 902	S-406-AB	.83	.74	.715
8	40 H 903	S-408-AB	.98	.88	.835
10	40 H 904	S-410-AB	1.15	1.03	.975
12	40 H 905	S-412-AB	1.28	1.17	1.10

H PLUGS TYPE DB RECESSED FOR CHASSIS MOUNTING †

Contacts	Stock No.	Type	1-24, EA.	25-99, EA.	100-499, EA.
2	40 H 950	P-402-DB	.57	.51	.485
4	40 H 951	P-404-DB	.73	.66	.62
6	40 H 952	P-406-DB	.89	.80	.755
8	40 H 953	P-408-DB	1.04	.93	.885
10	40 H 954	P-410-DB	1.20	1.08	1.025
12	40 H 954	P-412-DB	1.35	1.22	1.15

SERIES 101 PLUG AND SOCKET

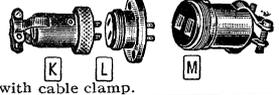
Low-loss plug and socket for high-frequency RF use. For coax or shielded 1-cond. Cadmium-plated brass; prong, contact, silver-plated. Shpg. wt., 4 oz.



Stock No.	Type	Description	1-24, EA.	25-99, EA.	100-499, EA.
40 H 825	P-101	1/2" Plug, Length 1 1/4"	.63	.57	.54
40 H 835	S-101	Socket, Dia., 3/8"	.41	.37	.35

SERIES 202 PLUGS AND SOCKETS

Cadmium plated brass plugs and sockets. Type P-202-CCT is polarized. Knurled nut. Type S-202-B socket mtg. holes. No. 30 drill on 1" centers. All units have 3/4" x 27 thread; shpg. wt. of 3 oz. Type P-202-CCT and S-202-CCT-THR with cable clamp.



Stock No.	Type	Fig.	Description	1-24, EA.	25-99, EA.	100-499, EA.
40 H 980	P-202-CCT	K	Plug, 2 contact	.58	.52	.495
40 H 982	S-202-B	L	Socket, base mounting	.69	.62	.58
40 H 981	S-202-CCT-THR	M	Socket, extension	.78	.71	.665

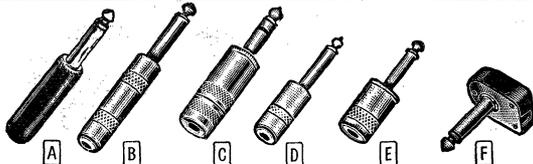
2R2 CHASSIS TYPE AC SOCKET

Molded bakelite units for chassis mounting. Solder lug terminals. For 10 amps, 250 volts, or 15 amps, 125 volts, 2 screw mounting. 3/8 x 3/4" mounting hole. Overall size, 1 1/2 x 1/2". Shpg. wt., 2 oz.



40 H 830, 1-9, NET EACH	15¢
10-49, EACH	13 1/4¢
50-99, EACH	12¢

Switchcraft Plugs and Jacks



"LITTEL-PLUGS" PHONE PLUGS

Small-size phone plugs; fit standard 1/4" phone jacks, except *Type S-250, 206" sleeve for S-11 "Little Jax" and †Type R280 which has short sleeve for Revere recorders. Plugs with solder terminals feature built-in cable clamp; others do not include cable clamp. Metal (shielded) handles are nickel-plated brass; plastic handles are durable "Tenite." Handles are 1 1/16" long; 1/2" dia. Av. shgp. wt., 4 oz.

Stock No.	Mfr's Type	Fig.	Cond.	Handle Color	Ter.	NET EACH		
						1-49	50-99	100-Up
41 H 553	240	A	2	Black	Screw	44¢	37¢	34¢
41 H 554	245	A	2	Red	Screw	44¢	37¢	34¢
41 H 611	250	A	2	Black	Solder	41¢	34¢	31¢
41 H 614	S250*	A	2	Black	Solder	41¢	37¢	34¢
41 H 612	255	A	2	Red	Solder	41¢	34¢	31¢
41 H 555	260	A	3	Black	Screw	71¢	59¢	54¢
41 H 516	267	A	3	Black	Solder	62¢	52¢	48¢
41 H 613	1280	B	2	Metal	Solder	59¢	49¢	45¢
41 H 556	R280†	B	2	Metal	Solder	73¢	62¢	57¢
41 H 617	297	B	3	Metal	Solder	76¢	64¢	58¢

STANDARD PHONE PLUGS

Standard-size 1/4" phone plugs. Metal (shielded) or black bakelite handles; 2 1/4" long, 1 1/4" dia., except *170 long. Type 170 is similar to 70, but has 2-pin handle with cable clamp for 1/2" cable. No. 190A is similar to 90, but has same handle as 170. Av. shgp. wt., 5 oz.

Stock No.	Mfr's Type	Fig.	Cond.	Handle Color	Ter.	NET EACH		
						1-49	50-99	100-Up
41 H 557	40	A	2	Black	Screw	.44	.37	.34
41 H 558	60	A	3	Black	Solder	.62	.52	.48
41 H 559	70	B	2	Metal	Screw	.71	.59	.54
41 H 560	90*	E	3	Metal	Solder	.76	.64	.58
41 H 561	160*	E	2	Metal	Screw	.53	.44	.40
41 H 564	170	C	2	Metal	Screw	.97	.81	.75
41 H 563	190A	C	3	Metal	Solder	1.15	.96	.88

"LUG-PLUG" PHONE PLUGS

Low-cost, two-conductor, 1/4" phone plugs, similar to "Littel-Plugs," above. Have solder terminals. Exterior parts bright nickel plated. Red or black "Tenite" handles are 1 3/8" long, 1/2" dia., except *Type 380 which has metal (shielded) handle 1" long. Av. shgp. wt., 4 oz.

Stock No.	Mfr's Type	Fig.	Cond.	Handle Color	Ter.	NET EACH		
						1-49	50-99	100-Up
41 H 564	350	A	2	Black	Screw	32¢	27¢	25¢
41 H 565	355	A	2	Red	Screw	32¢	27¢	25¢
41 H 566	380*	D	2	Metal	Screw	41¢	34¢	31¢

FLAT PHONE PLUGS

1/4" phone plugs featuring flat, space-saving handles. Ideal for applications where conventional plugs would protrude too far and interfere with operation of equipment, prevent installation in tight quarters, etc. Easily removable plastic handle. Screw terminals on Types 220 and 225 will accept standard phone tips. Terminals and body are mechanically interlocked. Shgp. wt., 4 oz.

Stock No.	Mfr's Type	Fig.	Cond.	Handle Color	Ter.	NET EACH		
						1-49	50-99	100-Up
41 H 621	220	F	2	Black	Screw	53¢	44¢	40¢
41 H 567	225	F	2	Red	Screw	53¢	44¢	40¢
41 H 568	230	F	3	Black	Screw	76¢	64¢	58¢
41 H 569	235	F	3	Red	Screw	76¢	64¢	58¢

MILITARY-TYPE "LITTEL-PLUGS" AND EXTENSION JACK

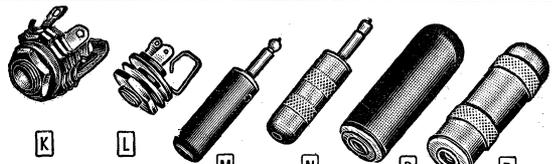
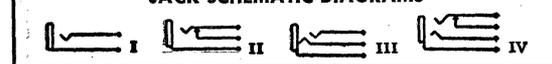
Meet exacting industrial and military requirement. Plugs are made in accordance with MIL-P-642A specs. Type 820 extension jack is designed to meet MIL-J-641A specs. Highest quality materials and advanced molding technique provide firm internal interlock; parts will not shift in position. Black plastic handle. Extension jack; fits Type 430 "Littel-Plug." All have screw terminals. Av. shgp. wt., 5 oz.

Stock No.	Mfr's Type	Fig.	Cond.	JAN Type	Old S.C. No.	NET EACH		
						1-49	50-99	100-Up
41 H 570	430	G	2	PJ-054B	PL-34	.82	.69	.63
41 H 608	430	H	3	PJ-053B	PL-32	1.12	.96	.88
41 H 619	820	J	2	PJ-066	PL-68	2.12	1.76	1.62
41 H 619	820	J	2	JJ-026	JK-26	1.18	.98	.90

"MT-JAX" SWITCHBOARD-TYPE JACKS
Meet Mil. specifications. 3/8" wide, 3/4" long. Fit 1/2" hole. SCC, single closed circuit; OC, open circuit. Shgp. wt., 3 oz.

Stock No.	Mfr's Type	Diag.	Cond.	Circuit	JAN Type	NET EACH		
						1-49	50-99	100-Up
41 H 603	MT-331	I	2	OC	JJ-086	.88	.73	.67
41 H 604	MT-332A	II	2	SCC	JJ-024	1.00	.83	.76
41 H 606	MT-332B	III	3	OC	JJ-022	1.00	.83	.76

JACK SCHEMATIC DIAGRAMS



"LITTEL-JAX" PHONE JACKS

Take standard 1/4" phone plugs, except S-11 which takes S-250 "Littel-Plug" and †C-12B which takes 480 Military-type "Littel-Plug." Jacks are 3/4" dia., 1 1/2" overall, and have a 3/4" dia. threaded shank, 5/8" long. SCC indicates single closed circuit; OC indicates open circuit. Av. shgp. wt., 3 oz.

Stock No.	Mfr's Type	Diag.	Cond.	Circuit	JAN Type	NET EACH		
						1-49	50-99	100-Up
41 H 622	11	I	2	OC	.....	24¢	20¢	18¢
41 H 623	C-11	I	2	OC	JJ-034	25¢	23¢	21¢
41 H 607	S-11*	I	2	OC	.....	26¢	23¢	21¢
41 H 624	12A	II	2	SCC	.....	26¢	23¢	21¢
41 H 631	C-12A	II	2	SCC	JJ-089	44¢	37¢	34¢
41 H 632	12B	III	3	OC	.....	32¢	27¢	25¢
41 H 633	C-12B†	III	3	OC	JJ-033	41¢	34¢	31¢
41 H 634	13B	IV	3	SCC	.....	44¢	37¢	34¢

"TINI-JAX" SUB-MINIATURE PHONE JACKS

Extra-small 2-conductor jacks for "Tini-Plugs"; 2 1/2" long; fit 1/4" hole. OC, open circuit; CC, closed circuit. Av. shgp. wt., 2 oz.

Stock No.	Mfr's Type	Diag.	Cond.	Circuit	NET EACH			
					1-49	50-99	100-Up	
41 H 516	41	I	2	OC	.....	24¢	20¢	18¢
41 H 517	42A	II	2	CC	.....	26¢	23¢	21¢

"TINI-PLUGS" SUB-MINIATURE PHONE PLUGS

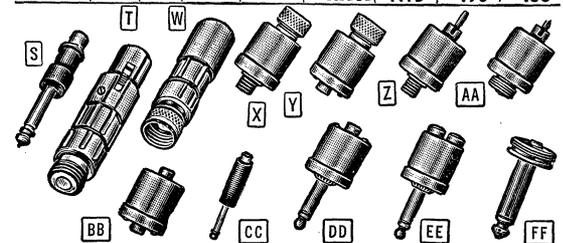
For use with "Tini-Jax". 1 1/2" overall length. 2-conductor. Handles are "Tenite" plastic or nickle-plated. Shgp. wt., 2 oz.

Stock No.	Mfr's Type	Fig.	Ter.	Handle	NET EACH		
					1-49	50-99	100-Up
41 H 518	740	M	Screw	Black	44¢	37¢	34¢
41 H 519	745	M	Screw	Red	44¢	37¢	34¢
41 H 520	750	M	Solder	Black	41¢	34¢	31¢
41 H 521	755	M	Solder	Red	41¢	34¢	31¢
41 H 522	770	N	Screw	Shielded	62¢	51¢	48¢
41 H 523	780	N	Solder	Shielded	59¢	49¢	45¢

"EXTENSION JAX" CABLE EXTENSION JACKS

Extension cable jacks; fit standard 1/4" plugs, 1/4" O.D.; 2 1/2" long. Black handles are durable plastic "Tenite"; shielded handles are nickle-plated brass. All are open circuit type. Av. shgp. wt., 3 oz.

Stock No.	Mfr's Type	Fig.	Cond.	Ter.	Handle	NET EACH		
						1-49	50-99	100-Up
41 H 571	80	P	2	Screw	Black	.68	.57	.52
41 H 572	88	P	2	Solder	Black	.59	.49	.45
41 H 573	120	R	2	Screw	Shielded	.99	.76	.70
41 H 717	1230	R	3	Screw	Shielded	1.15	.96	.88

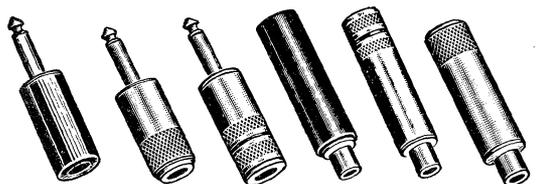


AUDIO ADAPTER/CONNECTORS

For quick adaptation of plug to fit other type of jack on recorders, amplifiers, etc. 347 has metal handle. Av. shgp. wt., 6 oz.

No.	Type	Fig.	Description	E.A.
41 H 636	332	X	Phone jack input to female microphone connector output	1.03
41 H 637	334	Y	Phono jack connector input to female mike connector output	.85
41 H 712	335	T	2 cond.-input has conn. Switchcraft 2501MF (Amphenol 75PC1M) and output conn. Cannon XL-3-11	1.73
41 H 638	336	Z	Phone jack input to phono plug connector output	.85
41 H 639	338	AA	Male mike connector input to phono plug connector output	.85
41 H 713	339	W	As Type 335, but output conn. Switchcraft 2501F (Amphenol 75-MC1F) to input conn. Cannon XL-3-12	1.73
41 H 609	342	...	Dual-purpose binding post/banana jack input to phone plug output	1.53
41 H 460	343	CC	Phono jack input; phone plug output. Built-in limiting resistor for cord	1.15
41 H 645	344	DD	Phono jack connector input to phone plug output	.85
41 H 649	346	EE	Tip jack input to phone plug output	1.26
41 H 608	348	BB	Phono jack input to phone jack output	.82
40 H 382	345A	S	Phone plug output with phono jack input	.73
40 H 383	347	CC	Phono jack input to phone plug output	.91
41 H 657	44	FF	Adapts Amphenol Type 75-MC1F or 75-MC1F-A connectors for use with standard 1/4" 2-conductor phone jacks	2.29

Plugs, Jacks and Jack Panels



75 75N 75A 100 100A 100N

MALLORY PLUGS AND JACKS

STANDARD PHONE PLUGS

Standard 1/4", 2 and 3-conductor, phone plugs for use with headphones, handsets, microphones, and for numerous other audio applications. Fit standard 1/4" phone jacks. 2-conductor plugs have built-in tie-cord anchor for terminal strain relief. Type 75A and 76A have a cable clamp built into the handle to provide terminal strain relief. Shielded handles are nickel-plated brass with knurling for sure grip; others are molded phenolic. Screw-type terminals accommodate either tip jacks or wire. *Type 76 and 76A (not illustrated) similar to 75 and 75A. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Cond.	Terminals	Handle		NET EACH
				Type	Length	
41 H 641	75	2	Screw	Phenolic	1 1/2"	.44
41 H 640	75N	2	Screw	Shielded	1 1/2"	.65
41 H 937	75A	2	Screw	Shielded	1 3/8"	1.03
41 H 941	*76	3	Solder	Phenolic	1 3/8"	.65
41 H 942	*76A	3	Solder	Shielded	1 3/8"	1.15

STANDARD EXTENSION JACKS

Type 100. 2-conductor, fiber handle extension jack for standard 1/4" phone plugs. Length, 3 1/4". Screw terminals. Shpg. wt., 4 oz.

41 H 938. NET 82c

Type 100N. 2-conductor extension jack with shielded, nickel-plated brass handle and built-in cable clamp. For standard 1/4" phone plugs. Screw terminals. Length, 3 3/8". Shpg. wt., 6 oz.

41 H 939. NET 1.06

Type 100A. 2-conductor extension jack with shielded, nickel-plated brass handle and built-in cable clamp. For standard 1/4" phone plugs. Length, 3 1/8". Shpg. wt., 5 oz.

41 H 940. NET 1.47



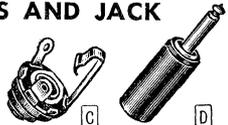
LONG-FRAME STANDARD PHONE JACKS

Industrial-type, long-frame jacks offering a variety of switch combinations. All take standard 1/4" phone plugs. Types Nos. 1, 2, 2A, and 5 (Fig. A) are 3 1/2 x 1 1/2 x 3/16". Mount in panels up to 1/4" thick by means of 3/8" diameter threaded shank. XP types (Fig. B) are 3 1/2 x 2 1/2 x 3/16" wide. Have 3/8" diameter smooth shank 3/8" long and mount with screw and nut. *Column headed "Cond." indicates number of conductors in mating plug. †Diagram indicates switching arrangement (shown in column at right). Av. shpg. wt., 4 oz.

Stock No.	Type	*Cond.	Circuit	†Diagram	NET		
					1-9	10-49	50-99
34 H 440	1	2	Open	I	44c		
34 H 441	2	2	Shorting	VII	56c		
34 H 442	2A	2	Closed	II	56c		
41 H 055	5	2	Closed & Transfer	IX	88c		
34 H 445	XP1	2	Open	I	62c		
41 H 644	XP2B	2	Closed	II	73c		
34 H 446	XP3B	2	Transfer	VIII	88c		

H. H. SMITH PLUGS AND JACK

Standard 1/4" 2-conductor phone plugs and jack. Plugs have screw-type terminals and are available with red or black bakelite handle. Overall length, 2-2 1/2". Open-circuit jack has 3/8" dia. threaded shank 3/8" long. Require 1" behind panel. Av. shpg. wt., 3 oz.



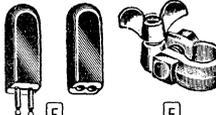
Stock No.	Mfr's Type	Fig.	Description	NET EACH		
				1-9	10-49	50-99
41 H 017	222B	D	Phone Plug (black)	38c	34c	31c
41 H 018	222R	D	Phone Plug (red)	38c	34c	31c
41 H 019	275	C	Standard Phone Jack	26c	24c	22c

MINIATURE PLUG-JACK

1 3/8" long, 1/2" wide, 3/8" thick. Two-conductor type. Black bakelite case. Shpg. wt., 3 oz.

43 H 260. Plug. NET 47c

43 H 261. Jack. NET 65c



BATTERY BINDING POST

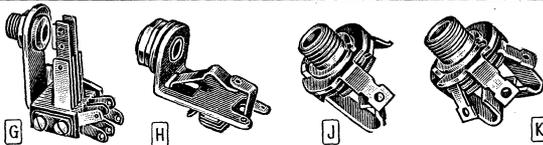
Universal storage battery binding post. Shpg. wt., 5 oz.

41 H 785. NET EACH 56c

GENERAL RADIO DOUBLE PLUG

Type 274-MB. Dual plug for standard banana jacks. Molded as a unit on 3/4" centers. Recessed top forms double jack, allowing units to be used in tandem. Banana plug prongs. Holes in body accept phone tips or wires up to No. 12; terminal screws clamp conductors securely. 15 amp. rating. 1 1/8" W., 1 1/8" L. Shpg. wt., 3 oz.

41 H 242. NET 65c



MALLORY STANDARD PHONE JACKS

JUNIOR PHONE JACKS

Compact "Junior" jacks for standard 1/4" phone plugs. Require only 1 3/8" behind panel. Cadmium-plated frames with nickel-plated brass shank, springs, and mounting hardware. 3/8" diameter threaded shank for mounting in panels up to 1/4" thick. Silver contacts. *Column head "Cond." indicates number of conductors in mating plug. Av. shpg. wt., 3 oz.

Stock No.	Type	*Cond.	Circuit	Diagram	NET
41 H 054	701	2	Open	I	44c
41 H 058	702B	3	Open	III	56c
41 H 057	703	2	Open	V	59c
41 H 059	703B	3	Closed-Transfer 1	IV	59c
41 H 060	704B	3	Closed-Transfer 2	VI	68c

MIDGET AND INFANT PHONE JACKS

Extremely small "Midget" and "Infant" type jacks for limited-space applications. All take 1/4" phone plugs. "Midget" type jacks require only 1 3/8" mounting space behind panel; "Infant" type requires only 7/8" behind panel. Cadmium-plated steel frames with nickel-plated brass shank, springs, and mounting hardware. 3/8" threaded shank for mounting in panels up to 1/4" thick. *Column headed "Cond." indicates number of conductors in mating plug. All are "Midget" type except A-1 "Infant" type jack. (†Not illustrated). Av. shpg. wt., 2 oz.

Stock No.	Type	*Cond.	Circuit	Diagram	NET
41 H 050	†A-1	2	Open	I	38c
41 H 051	A-2	2	Shorting	VII	47c
41 H 053	A-2A	2	Closed	II	56c
41 H 056	A-3A	2	Closed-Transfer 1	VIII	65c

MILITARY-TYPE SC JACKS

Type SC phone jacks are commercial equivalents of military types complying with JAN-J-641 specification. Both require 7/8" mounting space behind panel. Type SC-1A has 3/8" diameter threaded shank, 3/8" long. Type SC-2B has 3/8" diameter threaded shank, 3/8" long. Av. shpg. wt., 2 oz.

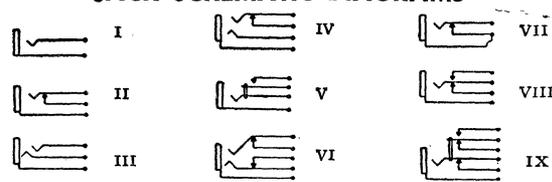
J Type SC-1A. Equivalent to military jack No. JJ-034. Open circuit. 2-conductor jack, see Diagram I. Takes all standard 1/4" plugs including Mallory 75; Western Electric Nos. 47A and 47B; Nos. PL-47, PL-48, PL-55, PL-148, PL-155, PL-125, PJ-055, PJ-155, PJ-034, PJ-036, and PJ-047.

41 H 642. NET 35c

K Type SC-2B. Equivalent to military jack No. JJ-033. Open circuit, 3-conductor jack, see Diagram III. Takes all 3-conductor plugs with 206" diameter sleeves, including Western Electric 109; Military Nos. PL-68, PL-168, PJ-068, PJ-168, and PJ-309.

41 H 643. NET 41c

JACK SCHEMATIC DIAGRAMS



PHONO PIN PLUG & JACK—TEST CLIPS

L Shielded Phono Pin-Plug and Jack. For auto radios, record players, etc. Pin plug fits standard phono jack on radio. Pin dia., 1/8", length, 3/8". Single prong jack on 1/8" bakelite disc. 1/16" mtg. centers. Av. wt., 1 oz. 3 per package.

46 H 212. Pin Plug, 10 or More Pkgs., Per Pkg. 13c. Per Pkg. 14c

46 H 213. Pin Jack, 10 or More Pkgs., Per Pkg. 18c. Per Pkg. 20c

M Grayhill Test 2-0 Test Clip. Spring clip with 8-32 x 3/8" mounting stud for test panels or board. 1 1/8" long. Shpg. wt., 2 oz.

45 H 182. NET 20c

N Grayhill Test 2-1 Test Clip. As above, but with banana plug for mounting in standard banana jacks. 1 1/8" long. Shpg. wt., 2 oz.

45 H 183. NET 34c

P H. H. Smith No. 1200 Motorola Type Plug. Antenna lead in plug designed for connecting coaxial lead in antenna wire to auto radio. Split brass shell has serrated edge to provide secure ground connection. Pin dia., 1/8" Shpg. wt., 2 oz.

41 H 152, 10 or More, EACH 7c. 1 to 9, NET EACH 8c

R H. H. Smith No. 1214 Double Phone Jack Assembly. Two standard phono jacks on common base. Fit standard phono pin-plugs on record players, tuners, preamplifiers, etc. Insulated base drilled for mounting screws. Base size, 1 3/8" x 1 1/8". Shpg. wt., 2 oz.

41 H 179, 10 or More, EACH 7c. 1 to 9, NET EACH 8c

Jack Panels, Jacks, Clips, Lugs, Strips

SWITCHCRAFT JACK PANELS



Heavy-duty jack panels for switching and distribution of audio signals in studio or theater installations, etc. Polished black phenolic panels are reinforced with steel for maximum rigidity. Mounting brackets slotted to fit standard 19" relay rack. Panel includes plastic-covered designation strips. *With military-type MT-332A jacks listed on page 196 (recommended for military and low-level audio applications). †Have telephone-type T-332A jacks (non-military version of MT-332A).

Stock No.	Type	Rows	Jacks	H. W. D.	Shpg. Wt.	NET
41 H 452	1232A	Single	12 pair†	1 3/4 x 19 x 1 1/4"	4 lbs.	26.46
41 H 453	1332A	Single	12 pair*	1 3/4 x 19 x 1 1/4"	4 lbs.	32.34
41 H 454	2432A	Double	24 pair†	2 1/8 x 19 x 1 1/4"	5 lbs.	44.10
41 H 457	2532A	Double	24 pair*	2 1/8 x 19 x 1 1/4"	5 lbs.	55.86
41 H 458	2632A	Double	52†	1 3/4 x 19 x 3/8"	6 lbs.	49.98
41 H 459	2732A	Double	52*	1 3/4 x 19 x 3/8"	6 lbs.	64.68

TELEX SUBMINIATURE JACKS AND PLUG



Type 9231 Plug. Extremely small phone-type plug for 2-conductor cable up to .150" diameter. 1 7/8" by 1/4" diameter. Shpg. wt., 2 oz. 59 J 243. NET.....36c

Type 9245. Jack. Closed-circuit jack for plug above. Mounts in 1/4" hole. Shpg. wt., 2 oz. 59 J 242. NET.....24c

Type 12102. Jack. Open-circuit jack for Type 9231 plug listed above. Mounts in 1/4" hole. Shpg. wt., 2 oz. 59 J 254. NET.....24c

H. H. SMITH ALLIGATOR CLIPS



Steel alligator clips. Insulated handles accept phone tip or banana plugs. Wt., per 10, 5 oz.

Stock No.	Type	Color	Description	1-9, EA.	10-49, EA.	50-UP, EA.
41 H 300	304	Red	With tip jack adapter.	32c	29c	26c
41 H 305	304	Black	With tip jack adapter.	32c	29c	26c
41 H 168	305	Red	With comb. tip & banana jack.	38c	34c	31c
41 H 169	305	Black	With comb. tip & banana jack.	38c	34c	31c

GRAYHILL INSULATED TEST CLIPS



Completely insulated clips. Molded phenolic insulation. Silver contact points. Contact resistance 0.0015 ohms. Shpg. wt., 2 oz. 45 H 180. Type 16-B Black. NET 45 H 181. Type 16-R Red. EACH.....83c

NU-WAY SNAPS, STUDS AND LUGS



Make and break contacts for temporary or permanent connections. A quick, simple way to join wires together. Snaps may be cascaded together for multiple connections—wires are secured by clamping terminal prongs over stripped wire and soldering. Nickel-plated brass. Fig. A has solder lug; Fig. C has hole for 6-32 screw. 100, 12 oz. 100 per pkg.

Stock No.	Fig.	Description	Size	1-9 Pkgs. PER PKG.	10 Pkgs. or More, PER PKG.
44 H 450	A	Snaps for lugs and studs.	7/16" D x 3/8" L	7.20	5.00
44 H 452	B	Lug for panel or chassis mtg.	6-32 x 1/2"	4.30	3.00
44 H 451	C	Lug for flush mounting.	1/2 x 3/16 x 3/4"	4.30	3.00

TIE POINTS AND TERMINAL STRIPS



STANDARD BAKELITE TIE-POINTS

J Terminals riveted to 1/8" thick bakelite on 3/8" centers. *Have one mounting lug; others have two. Mounting centers, 4-terminal, 1 7/8"; 6-terminal, 1 1/2". Av. shpg. wt., per pkg., 1/2 lb. 10 per pkg.

Stock No.	Term.	1-9 Pkgs. PER PKG.	10 Pkgs. & Up, PER PKG.	Stock No.	Term.	1-9 Pkgs. PER PKG.	10 Pkgs. & Up, PER PKG.
41 H 500	2*	15c	13 1/2c	41 H 503	5*	26c	23 1/2c
41 H 501	3*	17c	15 1/2c	41 H 504	6	54c	50c
41 H 502	4	30c	27c				

SINGLE-LUG TIE-POINT

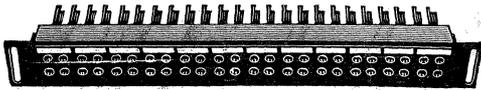
K Tinned solder lug. Very convenient for keeping wiring neat and rigid. Reduces possibility of shorts from loose wires coming in contact with each other. Riveted to 1/8" thick, high-quality bakelite. One mounting lug. Shpg. wt., per pkg., 4 oz. 10 per pkg. 41 H 515. 1 to 9 Pkgs., PER PKG.....12c 10 or More Pkgs., PER PKG.....11c

TERMINAL STRIPS

L Excellent for cabled sub-assemblies, to simplify chassis removal. Have 1/8"-thick bakelite strips. Cadmium-plated screw terminals and tinned solder lugs. Av. shpg. wt., per pkg., 1/2 lb. 6 per pkg.

Stock No.	Term.	1-9 Pkgs. PER PKG.	10 Pkgs. & Up, PER PKG.	Stock No.	Term.	1-9 Pkgs. PER PKG.	10 Pkgs. & Up, PER PKG.
41 H 505	2	42c	38c	41 H 508	5	95c	85c
41 H 506	3	60c	54c	41 H 509	6	1.13	1.01
41 H 507	4	77c	69c				

AUDIO DEVELOPMENT JACK PANELS & CORDS



BROADCAST-TYPE JACK PANELS

Professional-quality jack panels for use in broadcast stations, paging systems, theaters, and in any other installation requiring efficient distribution and switching of audio signals. With card strips. Bakelite panels fit standard 19" relay rack.

Type PJ340. Double row jack panel complete with 52 (26 pairs) closed circuit jacks. Width, 1 3/4". Shpg. wt., 5 lbs. 86 HX 804. NET.....49.50

Type PJ341. Double row jack panel complete with 48 (24 pairs) closed circuit jacks. Width, 2 1/4". Shpg. wt., 5 lbs. 86 HX 802. NET.....42.75

Type PJ343. Single row jack panel complete with 24 (12 pairs) closed circuit jacks. Width, 1 3/4". Shpg. wt., 3 1/4 lbs. 86 HX 803. NET.....25.14

PATCH CORD SETS

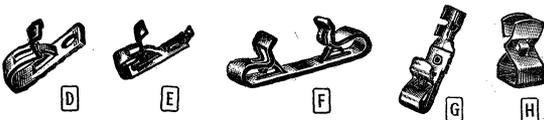


One patch cord and two double plugs. Tinned-copper, 2-conductor, insulated wire. Heavy braid overall. Bakelite and brass plugs. Have polarizing identifications. Wt., 9 oz.

41 H 661. Type PJ12. Patch Cord Set. 2-ft. long. NET.....	7.41
41 H 662. Type PJ13. Patch Cord Set. 3-ft. long. NET.....	7.59
41 H 664. Type PJ15. Patch Cord Set. 5-ft. long. NET.....	8.07
41 H 666. Type PJ1. Double Plug Only. NET.....	2.76

Replacement Cords. Same fine quality 2-conductor cords as used on patch cord sets above. Insulated tinned copper. Heavy protective braid. Fit all makes of standard plugs. Av. shpg. wt., 6 oz.

41 H 667. Type PJ22. Replacement Cord. 2-ft. long. NET.....	1.65
41 H 668. Type PJ23. Replacement Cord. 3-ft. long. NET.....	1.74
41 H 669. Type PJ24. Replacement Cord. 4-ft. long. NET.....	1.80
41 H 659. Type PJ25. Replacement Cord. 5-ft. long. NET.....	1.89



FAHNESTOCK SPRING CONTACT CLIPS

Positive contact clips. *Made of bronze. All others brass. Av. shpg. wt., per pkg., 3 oz. 10 clips per pkg.

Stock No.	Mir's Type	Fig.	Length	Width	Max. Wire	Mtg. Hole	NET PER PKG.		
							1-9	10-99	100-UP
41 H 700	2	D	1"	3/8"	#10	#8	.12	.11	.10
41 H 702	3	D	1 1/8"	3/8"	#10	#8	.17	.15	.14
41 H 705	10	D	1 1/8"	3/8"	#10	#8	.10	.09	.08
41 H 703	5	E	1 1/8"	3/8"	#10	#8	.19	.17	.16
41 H 707*	15	E	1 1/2"	3/2"	#16	#4	.10	.09	.08
41 H 704	9	F	2 1/2"	3/8"	#10	#8	.51	.46	.42
41 H 710	9C	F	1 3/4"	3/8"	#10	#8	1.50	1.35	1.24
41 H 715	18	F	1 1/2"	3/8"	#14	#6	.50	.45	.41
41 H 708*	36	G	1 1/2"	3/8"	#10	lug	.55	.50	.46
41 H 709	45	H	3/4"	3/8"	#12	#6	.17	.15	.14



MINIATURE TIE-POINTS

M Consist of .025" tinned brass terminals on 1/8"-thick laminated phenolic. Ground lug included. Av. shpg. wt., per pkg., 8 oz. 10 per pkg.

Stock No.	Term.	1-9 Pkgs. PER PKG.	10 Pkgs. & Up, PER PKG.	Stock No.	Term.	1-9 Pkgs. PER PKG.	10 Pkgs. & Up, PER PKG.
41 H 510	2	15c	13 1/2c	41 H 513	5	31c	27c
41 H 511	3	21c	19c	41 H 514	6	36c	32c
41 H 512	4	25c	22c				

HEAVY-DUTY STRIPS

N Black 3/8" bakelite. Cadmium-plated screw terminals. Tinned lugs, for antenna-ground connection on receivers, etc. Av. wt., 4 oz.

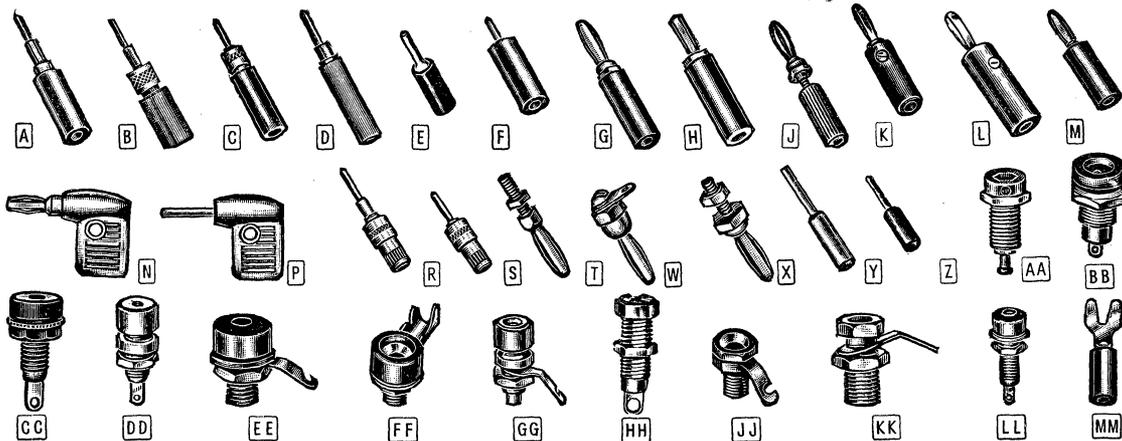
Stock No.	Terminals	1-9, EA.	10-UP, EA.	Stock No.	Terminals	1-9, EA.	10-UP, EA.
41 H 875	2	14c	13c	41 H 895	6	27c	24c
41 H 880	3	17c	15c	41 H 897	7	31c	28c
41 H 885	4	21c	19c	41 H 898	8	34c	31c
41 H 890	5	24c	22c				

TERMINALS—CONNECTORS

Av. shpg. wt., per pkg., 4 oz. 10 per pkg.

Stock No.	Fig.	Description	1-9 Pkgs. PER PKG.	10 or More, PER PKG.
41 H 757	P	Single hole fuse mount. For 1/4" diameter fuses.	5 1/2c	5c
41 H 767	R	Terminal lugs.	53c	48c
41 H 777	S	Black, insulated pin-plug.	86c	77c

H. H. Smith Plugs and Jacks



TIP PLUGS, BANANA PLUGS AND MATCHING JACKS

INSULATED TIP PLUGS

A Type 229 Heavy Duty Phone Tip Plug. Molded bakelite handle. One-piece, nickel-plated brass construction for heavier-current use. $2\frac{1}{4}$ " long. Shpg. wt., 3 oz.
 41 H 536. Red 1-9
 41 H 537. Black NET EACH
 41 H 538. Yellow
 41 H 539. Green 15c
 41 H 540. Blue
 50-99, EA. 12c 10-49, EA. 13c

B Type 200 "Senior" Solderless Phone Tip Plug. Knurled nut tightens against wire, making soldering unnecessary. Plug is made of nickel-plated brass; bakelite handle. $2\frac{1}{4}$ " long. Shpg. wt., 3 oz.
 41 H 250. Red 1-9
 41 H 255. Black NET EACH
 41 H 415. Yellow
 41 H 416. Green 15c
 41 H 417. Blue
 50-99, EA. 12c 10-49, EA. 13c

C Type 201 "Junior" Solderless Phone Tip Plug. Has same tightening assembly in body of plug as Type 200, above. Bakelite handle; nickel-plated brass. $2\frac{1}{4}$ " long. Shpg. wt., 3 oz.
 41 H 542. Red 1-9
 41 H 543. Black NET EACH
 41 H 544. Yellow
 41 H 545. Green 15c
 41 H 546. Blue
 50-99, EA. 12c 10-49, EA. 13c

D Type 270 Subminiature Phone Tip. $\frac{1}{4}$ " O.D. bone fiber handle. Nickel-plated brass tip. $1\frac{3}{4}$ " overall length. 2 oz.
 41 H 547. Red 1-9
 41 H 548. Black NET EA. 13c
 50-99, EA. 11c 10-49, EA. 12c

E Type 237. For standard tip jacks. $1\frac{1}{2}$ " long. 3 oz.
 41 H 260. Red 1-9
 41 H 261. Black NET EA. 10c
 50-99, EA. .8c 10-49, EA. .9c

F Type 203 Short Phone Tip Plug. Solderless tip permits insertion at the plug up to insulated handle. Handle is molded bakelite. Nickel-plated brass tip. $1\frac{1}{2}$ " long. Shpg. wt., 3 oz.
 41 H 575. Red 1-9
 41 H 576. Black NET EACH
 41 H 577. Yellow
 41 H 578. Green 12c
 41 H 579. Blue
 50-99, EA. 10c 10-49, EA. 11c

NON-INSULATED TIP PLUGS

R Type 105 "Senior" Solderless Phone Tip Plug. Has knurled nut for fastening wire. $1\frac{1}{2}$ " long. Shpg. wt., 2 oz.
 41 H 240. 1-9, NET EACH. 10c
 50-99, EA. .8c 10-49, EA. .9c

S Type 106 "Junior" Solderless Phone Tip Plug. As above, but $1\frac{3}{8}$ " long. 2 oz.
 41 H 230. 1-9, NET EACH. 10c
 50-99, EA. .8c 10-49, EA. .9c

Y Type 123 Heavy-Duty Cord Tip. Fits standard phone tip jacks. $1\frac{1}{2}$ " long. Shpg. wt., 2 oz.
 41 H 125. 1-9, NET EACH. 3c
 50-99, EA. .2c 10-49, EA. .2c

NON-INSULATED TIP PLUG

Z Type 108 Standard Cord Tip. For instruments, test panels, headphones, etc. Length, $1\frac{1}{2}$ ". Shpg. wt., 2 oz.
 41 H 200. 1-9, NET EA. $2\frac{1}{2}$ c
 50-99, EA. .1 $\frac{1}{2}$ c 10-49, EA. .2c

MOLDED METER PLUGS

N Type 255 Banana-Type Meter Plug. Four-leaved phosphor bronze spring; nickel-plated. Tip is $1\frac{1}{2}$ " long. Wt., 2 oz.
 41 H 467. Red 1-9
 41 H 468. Black NET EA. 35c
 50-99, EA. 29c 10-49, EA. .31c

P Type 235 Meter Tip Plug. Molded in two halves for easy assembly with screw and nut. Nickel-plated tip is $\frac{1}{2}$ " long. 2 oz.
 41 H 203. Red 1-9
 41 H 204. Black NET EA. 26c
 50-99, EA. 22c 10-49, EA. .24c

BANANA PLUGS

G Type 212 Insulated, Spring Tip. Molded Bakelite handle. Wire can be soldered to brass stud supplied, or directly into plug. Length, $1\frac{1}{8}$ ". Shpg. wt., 2 oz.
 41 H 593. Red 1-9
 41 H 594. Black NET EACH
 41 H 595. Yellow
 41 H 596. Green 21c
 41 H 597. Blue
 50-99, EA. 17c 10-49, EA. .19c

H Type 253 Insulated, Split Tip. Nickel-plated, cross-slotted tip. Wire can be soldered to brass stud supplied or directly into plug. Length, $1\frac{1}{8}$ ". Shpg. wt., 2 oz.
 41 H 428. Red 1-9
 41 H 427. Black NET EACH
 41 H 067. Yellow
 41 H 068. Green 18c
 41 H 069. Blue
 50-99, EA. 15c 10-49, EA. .16c

J Type 236 Insulated, Spring Tip. Tente handle. Silver-plated tip. Fits all standard banana jacks. Four leaved spring provides lasting contact. Has curved contact area to assure high current handling capacity. Length, $1\frac{3}{8}$ ". Shpg. wt., 2 oz.
 41 H 407. Red 1-9
 41 H 408. Black NET EA. 29c
 50-99, EA. 24c 10-49, EA. .26c

K Type 204 Insulated, Spring Tip. Solderless; has set screw in bakelite handle. Nickel-plated tip. Length, $1\frac{1}{8}$ ". Wt., 2 oz.
 41 H 405. Red 1-9
 41 H 410. Black NET EACH
 41 H 402. Yellow
 41 H 403. Green 18c
 41 H 404. Blue
 50-99, EA. 15c 10-49, EA. .16c

L Type 213 Insulated, Split Tip. Solderless; set screw in handle. Length, $1\frac{1}{8}$ ". Shpg. wt., 2 oz.
 41 H 425. Red 1-9
 41 H 430. Black NET EACH
 41 H 412. Yellow
 41 H 413. Green 18c
 41 H 414. Blue
 50-99, EA. 15c 10-49, EA. .16c

BANANA PLUGS

M Type 211 Insulated, Spring Tip. Nickel-plated brass tip. Wire can be soldered to brass stud supplied, or directly into plug. Length, $1\frac{1}{8}$ ". Shpg. wt., 2 oz.
 41 H 462. Red 1-9
 41 H 463. Black NET EACH
 41 H 464. Yellow
 41 H 465. Green 18c
 41 H 466. Blue
 50-99, EA. 15c 10-49, EA. .16c

I Type 103 All-Metal, Spring Tip. Has solder lug. Four-leaved spring. Body and tip are nickel-plated. $6-32 \times \frac{1}{2}$ " stud. Length, $1\frac{1}{2}$ ". Shpg. wt., 2 oz.
 41 H 400. 1-9, NET EACH. 15c
 50-99, EA. 12c 10-49, EA. .13c

W Type 100 All-Metal, Spring Tip. As above, but internal threads permit use on all size panels. Length, $1\frac{1}{2}$ ". Shpg. wt., 2 oz.
 41 H 488. 1-9, NET EACH. 15c
 50-99, EA. 12c 10-49, EA. .13c

X Type 102 All-Metal, Spring Tip. Nickel plated, one-piece construction. $6-32 \times \frac{1}{2}$ " stud. Length, $1\frac{1}{2}$ ". Shpg. wt., 2 oz.
 41 H 489. 1-9, NET EACH. 15c
 50-99, EA. 12c 10-49, EA. .13c

TIP JACKS

AA Type 1505 Miniature Nylon Tip Jacks. Silver-plated, beryllium copper contact. Fits $\frac{1}{4}$ " hole; panels to $\frac{1}{4}$ " thick. Overall size, $2\frac{3}{8} \times 3\frac{1}{8}$ " dia. Wt., 2 oz.
 41 H 495. Red 1-9
 41 H 496. Black NET EACH
 41 H 497. Yellow
 41 H 498. Green 29c
 41 H 499. Blue
 50-99, EA. 24c 10-49, EA. .26c

BB Type 240 Nylon Tip Jack. Completely insulated; phosphor bronze contact. $1\frac{1}{8} \times \frac{1}{2}$ " dia. Shpg. wt., 2 oz.
 41 H 012. Red 1-9
 41 H 013. Black NET EACH
 41 H 014. Yellow
 41 H 015. Green 18c
 41 H 016. Blue
 50-99, EA. 15c 10-49, EA. .16c

CC Type 202 Insulated Tip Jack. Body is nickel-plated brass. Mounts in $\frac{3}{16}$ " hole in panels up to $\frac{3}{8}$ " thick. Size, $1\frac{1}{8} \times \frac{1}{8}$ " O.D. Shpg. wt., 2 oz.
 41 H 110. Red 1-9
 41 H 115. Black NET EACH
 41 H 432. Yellow
 41 H 433. Green 13c
 41 H 434. Blue
 50-99, EA. 11c 10-49, EA. .12c

DD Type 241 Insulated Tip Jack. Molded nylon head and insulating washer. Nickel-plated brass body. Mounts in $\frac{3}{16}$ " hole. Shpg. wt., 2 oz.
 41 H 024. Red 1-9
 41 H 025. Black NET EACH
 41 H 026. Yellow
 41 H 027. Green 18c
 41 H 028. Blue
 50-99, EA. 15c 10-49, EA. .16c

TIP JACK

HH Type 107 Non-Insulated Tip Jack. $\frac{1}{4}$ " mtg. hole; $\frac{3}{8}$ " max. panel thickness. Has phosphor-bronze spring contact. Shpg. wt., 2 oz.
 41 H 100. 1-9, NET EACH. 10c
 50-99, EA. .8c 10-49, EA. .9c

BANANA JACKS

EE Type 205 Insulated Banana Jack. With solder lug and removable insulated top. Requires $\frac{3}{16}$ " hole; for panels to $\frac{3}{8}$ ". $2\frac{1}{2}$ " long. Shpg. wt., 2 oz.
 41 H 475. Red 1-9
 41 H 480. Black NET EACH
 41 H 422. Yellow
 41 H 423. Green 13c
 41 H 424. Blue
 50-99, EA. 11c 10-49, EA. .12c

FF Type 219 Insulated Banana Jack. Has molded plastic head. Recessed body assures snug contact. Fits $\frac{3}{16}$ " mtg. hole; $\frac{3}{8}$ " max. panel thickness. Shpg. wt., 2 oz.
 41 H 033. Red 1-9
 41 H 034. Black NET EACH
 41 H 035. Yellow
 41 H 036. Green 15c
 41 H 037. Blue
 50-99, EA. 12c 10-49, EA. .13c

GG Type 221 Insulated Banana Jack. Molded nylon head and insulating washer. $\frac{3}{16}$ " mtg. hole; $\frac{3}{8}$ " max. Wt., 2 oz.
 41 H 042. Red 1-9
 41 H 043. Black NET EACH
 41 H 044. Yellow
 41 H 045. Green 18c
 41 H 046. Blue
 50-99, EA. 15c 10-49, EA. .16c

JJ Type 101 Non-Insulated Banana Jack. Has brass tinned lug. $\frac{1}{4}$ " mtg. hole; $\frac{3}{16}$ " max. panel thickness. Shpg. wt., 2 oz.
 41 H 047. 1-9, NET EACH. 10c
 50-99, EA. .8c 10-49, EA. .9c

KK Type 109 Non-Insulated Banana Jack. $\frac{1}{4}$ " mtg. hole; $\frac{3}{8}$ " max. thickness. 2 oz.
 41 H 470. 1-9, NET EACH. 10c
 50-99, EA. .8c 10-49, EA. .9c

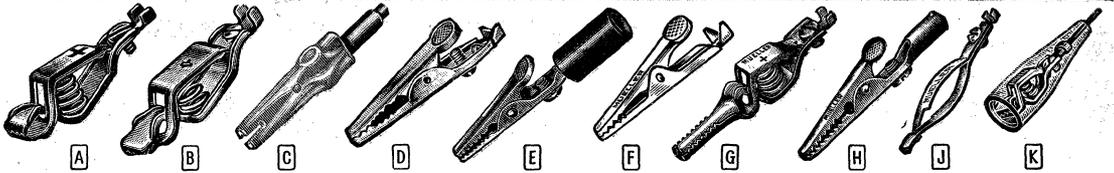
COMBINATION JACK

LL Type 206 Insulated Combination Jack. Will accommodate all standard phone tip or banana plugs. Nickel-plated brass body. Mounts in $\frac{3}{16}$ " hole; panels up to $\frac{1}{2}$ " thick. Length, $1\frac{1}{2}$ ". Shpg. wt., 2 oz.
 41 H 130. Red 1-9
 41 H 135. Black NET EACH
 41 H 137. Yellow
 41 H 138. Green 16c
 41 H 143. Blue
 50-99, EA. 13c 10-49, EA. .14c

INSULATED SPADE LUG

MM Type 218 Banana Plug To Spade Lug Adapter. Has jack in rear of handle to allow insertion of banana plug. $\frac{1}{2}$ " wide steel hot-tinned lug. $\frac{3}{32}$ " thick for extra durability. Size: $1\frac{1}{8}$ " long, $\frac{3}{8}$ " O.D. Shpg. wt., 2 oz.
 41 H 048. Red 1-9
 41 H 049. Black NET EA. 11c
 50-99, EA. .9c 10-49, EA. .10c

Alligator Clips, Binding Posts



MUELLER UNIVERSAL CLIPS AND FLEXIBLE INSULATORS

A wide variety of clips for positive, dependable electrical contacts. For batteries, high-frequency equipment, experimental setups, transmitting apparatus, electroplating, and countless other applications.

Quality springs maintain firm grip, lead-plated clips resist battery acid. Solid copper types have low resistance and are non-magnetic. Slip-on insulators (Fig. K) are listed for all types.

MESH TEETH TEST CLIPS

A For general purpose applications. *Solid Copper. †Solid bronze. ‡Cadmium-plated steel. †Insulation-piercing needle for quick wire contact. Av. shgp. wt., 3 oz.

Stock No.	Mfr's Type	Amps	Size	NET EACH			
				1-9	10-99	100-499	500-Up
45 N 000	\$45	5	1 1/2"	.07	.05	.042	.04
45 N 005	‡45C	10	1 1/2"	.13	.09	.078	.072
45 N 010	‡48B	10	2"	.10	.07	.06	.052
45 N 078	*48C	10	2"	.14	.098	.084	.08
45 N 087	†‡50C	10	2 1/4"	.24	.18	.15	.14

LEAD-PLATED BATTERY CLIPS

A For moderately heavy current work, including battery charging, electroplating, and light welding. Lead-plated steel for complete protection and long life. Av. shgp. wt., 4 oz.

Stock No.	Type	Amps	Size	1-9	10-99	100-499	500-Up
45 N 020	24A	25	2 7/8"	.20	.14	.12	.112
45 N 030	21A	50	4"	.55	.24	.22	.21
45 N 040	11A	100	6"	.98	.69	.59	.56

SOLID COPPER CLIPS

A Heavy-duty, high-conductivity, solid copper clips. Shgp. wts.: 24C, 3 oz.; 21C, 5 oz.; 11C, 8 oz.; 33C, 1 lb.

Stock No.	Type	Amps	Size	1-9	10-99	100-499	500-Up
45 N 025	24C	50	2 7/8"	.33	.24	.20	.19
45 N 035	21C	100	4 1/2"	1.66	1.17	.92	.89
45 N 045	11C	200	6"	1.67	1.17	1.00	.95
45 N 050	33C	300	7 3/4"	3.18	2.23	1.91	1.82

3-SIDED MESH TEETH CLIPS

B ‡Cadmium-plated steel; *solid copper. Jaws open 3/8". Meshing teeth on 3 sides of each jaw. Shgp. wt., 2 oz.

Stock No.	Type	Amps	Size	1-9	10-99	100-499	500-Up
45 N 015	\$27	20	2 3/8"	.12	.08	.07	.066
45 N 097	*27C	40	2 3/8"	.20	.14	.12	.112

INSULATED ALLIGATOR CLIPS

C ‡Cadmium-plated steel; *solid copper. Completely insulated with vinyl plastisol to provide excellent protection against shocks and shorts. Shgp. wt., 3 oz.

Stock No.	Type	Amps	Size	1-9	10-99	100-499	500-Up
45 N 140	*\$63	5	2 1/8"	.27	.20	.17	.16
45 N 141	*63C	10	2 1/8"	.29	.21	.18	.17

70 SERIES ALLIGATOR CLIPS

D Streamlined, simplified design. No. 70 is cadmium-plated steel, with solder connection; No. 70S is cadmium-plated steel, with screw connection. No. 70CS is made of solid copper and has screw connection. Av. shgp. wt., 3 oz.

Stock No.	Type	Amps	Size	1-9	10-99	100-499	500-Up
45 N 170	70	5	1 1/16"	.07	.044	.038	.036
45 N 171	70S	5	1 1/16"	.08	.05	.044	.04
45 N 172	70CS	10	1 1/16"	.11	.075	.064	.06

INSULATED BARREL ALLIGATOR CLIPS

E Made of cadmium-plated steel, except *solid copper. Jaws open 3/8". Av. shgp. wt., 2 oz.

Stock No.	Mfr's Type	Size	Description	NET EACH			
				1-9	10-99	100-499	500-Up
45 N 070	60HS	2 1/2"	Red handle	.14	.095	.08	.076
45 N 075	60HS	2 1/2"	Black handle	.14	.095	.08	.076
45 N 090	*60CHS	2 1/2"	Red handle	.16	.11	.096	.092
45 N 095	*60CHS	2 1/2"	Black handle	.16	.11	.096	.092

CROCODILE CLIPS

G *Solid copper; ‡cadmium-plated steel. †Phone tip on one jaw. Wt., 2 oz.

Stock No.	Mfr's Type	Size	Description	1-9	10-99	100-499	500-Up
45 N 060	\$85	2 1/2"	Screw Connection	.08	.058	.048	.044
45 N 062	*85C	2 1/2"	Screw Connection	.16	.11	.098	.092
45 N 098	‡85T	2 1/2"	Tip-Clip	.21	.15	.126	.12

ALLIGATOR CLIPS

H Steel, except *Solid copper. †Solder type; "S"—screw type. Slim jaws for close work. Jaws open 3/8". Shgp. wt., 2 oz.

Stock No.	Mfr's Type	Size	Description	1-9	10-99	100-499	500-Up
45 N 200	160	2"	Fit banana plugs	.07	.05	.044	.04
45 N 065	60S	2"	Fit banana plugs	.08	.058	.048	.044
45 N 080	*60CS	2"	Fit banana plugs	.12	.084	.072	.068

NON-FERROUS R.F. TEST CLIP

J Phosphor bronze clip with brass screw. Ideal for tapping small transmitter coils; also for work in crowded chassis. Shgp. wt., 2 oz.

Stock No.	Mfr's Type	Size	Description	1-9	10-99	100-499	500-Up
45 N 055	88	1 1/16"	Ideal for coils	.22	.15	.13	.124

"MINI-GATOR" CLIPS

F Miniaturized—3/8" jaw opening, 1/4" O.D. tip. ‡Cadmium-plated steel; *solid copper. Shgp. wt., 2 oz.

Stock No.	Mfr's Type	Amps	Size	NET EACH			
				1-9	10-99	100-499	500-Up
45 N 142	\$30	5	1 1/8"	.07	.044	.038	.036
45 N 143	*30C	10	1 1/8"	.08	.056	.048	.044

SLIP-ON INSULATORS FOR CLIPS

K Tough, flexible plastic. High dielectric strength; resistant to oils and grease. Covers entire clip except for end of nose. Av. shgp. wt. per pkg., 5 oz. 2 insulators per pkg.; one red, one black.

Stock No.	Mfr's Type	For Use With	NET PER PKG.			
			1-4	5-49	50-249	250-Up
45 N 167	13	Series 11	1.51	1.06	.90	.86
45 N 164	23	Series 21	.94	.67	.57	.53
45 N 163	26	Series 24	.47	.35	.278	.262
45 N 166	29	Series 27	.31	.22	.192	.18
45 N 144	32	Series 30	.22	.152	.126	.12
45 N 162	35	Series 33	5.06	3.53	3.04	2.88
45 N 160	47	Series 45	.14	.096	.08	.076
45 N 161	49	Series 48, 50	.20	.14	.112	.108
45 N 165	62	Series 60, 70	.14	.096	.08	.076
45 N 168	87	Series 85	.14	.096	.08	.076
45 N 169	93	Series 88	.20	.14	.12	.116



BINDING POSTS

H. H. SMITH BINDING POSTS

L Type 209. Dual binding post assembly with metal posts. Can accept standard dual banana plug and wire, etc. Mounts in 2-1/2" holes on 3/4" centers in 1/8" to 1/4" panels. With wrap-around solder studs. Has 3/4"x1 1/2" rounded black base. Shgp. wt., 4 oz.

41 H 326. NET.....59¢

M Type 208. 5-way metal binding post. Can accept banana plug. Mounts in .144" hole in 1/8" to 3/8" panels. Has wrap-around solder stud. 6-32 thread. Shgp. wt., 3 oz.

41 H 327. NET.....24¢

N Type 224. Dual 5-way binding post assembly with black, insulated, fluted heads. Accepts dual banana plug. Mounts in 2-1/2" holes, 3/4" centers on 1/8"-1/4" panels. Has solder studs, 3/4"x1 1/2" rounded base. 4 oz.

41 H 328. NET.....53¢

P Type 269. Dual 5-way binding post assembly with black hex-rip insulated heads. Accepts dual banana plug. Mounts in 2-1/2" holes on 3/4" ctrs, 1/8"-1/4" panels. Has solder studs, 3/4"x1 1/2" rounded base. 4 oz.

41 H 329. NET.....65¢

Multi-purpose molded binding posts. Rated 2000 volts, 30 amps. Have banana-plug jack in head. All metal parts insulated from panel. For panels 1/8" to 1/4", 257 has wrap-around solder stud; 220 is grounding type. *Locking edge. Av. shgp. wt., 2 oz.

Stock No.	Mfr's Type	Fig.	Mtg. Hole	Total Lgth. (Closed)	Color	NET EACH		
						1-9	10-49	50-Up
41 H 368	*257R	R	3/4"	1 23/32"	Red			
41 H 367	*257B	R	3/4"	1 23/32"	Black			
41 H 366	*267R	S	3/4"	1 19/32"	Red	35¢	31¢	28¢
41 H 387	*267B	S	3/4"	1 19/32"	Black			
41 H 330	220R	T	1 1/4"	1 9/4"	Red	18¢	16¢	15¢
41 H 335	220B	T	1 1/4"	1 9/4"	Black	18¢	16¢	15¢
41 H 388	*260R	W	5/8"	1 9/4"	Red	24¢	22¢	20¢
41 H 389	*260B	W	5/8"	1 9/4"	Black	24¢	22¢	20¢

X Type 110 Post. For heavy-duty use and low-resistance connections. Nickel-plated brass 3/16" long, 3/16" mtg. hole. Wt., 2 oz.

41 H 371. 50-Up, EA...12¢ 10-49, EA...13 1/2¢ 1-9, NET EA...15¢

SUPERIOR BINDING POSTS

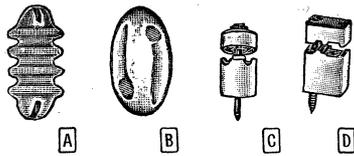
Y Take spade lugs, banana plugs (have jack in top), clip leads, and up to No. 12 wire. Rated 1000 volts, 30 amps. Insulated with nylon plastic.

Stock No.	Type	Color	1-99, EACH	100 or More, EACH
41 H 172	DF30YC	Yellow		
41 H 173	DF30GNC	Green	40c	34c
41 H 174	DF30WTC	White		

tic; all metal components are recessed. For 1/8"-1/4" panels. Mount in 1/2" holes. Metal parts gold-plated. Choice of 6 colors. Shgp. wt., 4 oz.

Stock No.	Type	Color	1-99, EACH	100 or More, EACH
41 H 177	DF30BC	Black		
41 H 178	DF30RC	Red	40c	34c
41 H 198	DF30BLC	Blue		

Insulators, Plugs, Jacks and Adapters



ANTENNA INSULATORS

- A** 51 C 223. Glazed porcelain insulator, 2 1/2" long. Shpg. wt., 2 oz. 4 per pkg. **21c**
1 to 9 Pkgs., Per Pkg. **19c**
10 or More Pkgs., Per Pkg. **19c**
- B** 51 C 224. White porcelain strain insulator, 1 3/4 x 7/8" dia. Wt., 2 oz. 4 per pkg. **29c**
1 to 9 Pkgs., Per Pkg. **26c**
10 or More Pkgs., Per Pkg. **26c**
- C** 51 C 225. Standard nail knob. 1 3/4 x 1 1/2" dia. Shpg. wt., 4 oz. 4 per pkg. **17c**
1 to 9 Pkgs., Per Pkg. **15c**
10 or More Pkgs., Per Pkg. **15c**
- D** 51 C 226. Porcelain insulator for 300 ohm twin-lead. Shpg. wt., 5 oz. 4 per pkg. **27c**
1 to 9 Pkgs., Per Pkg. **24c**
10 or More Pkgs., Per Pkg. **24c**

NATIONAL STAND-OFF INSULATORS

Molded steatite insulators for use in RF circuits. Glazed to prevent moisture absorption. Base and terminal assembly removable to form single-screw type pillar mount. Av. shpg. wt., 3 oz.



Stock No.	Mfr's Type	Body Ht.	Dia.	NET EACH
71 H 125	GS-1	1 3/4"	1/2"	27c
71 H 126	GS-2	2 1/2"	1/2"	35c
71 H 127	GS-3	2 1/2"	3/4"	69c

LAB-TRONICS JACK ADAPTERS AND CONNECTORS



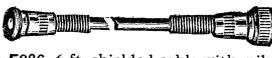
- C400** Double-ended Phono Pin Jack. Allows rapid connection of any two lines having phono pin plug ends. Shpg. wt., 2 oz. **94 S 458. NET. 59c**
- P55A** Adapter. Standard phone plug, with standard phono pin jack on opposite end. Allows connection of standard phono pin plug into standard phone jack. Shpg. wt., 2 oz. **71 H 289. NET. 73c**



- Type MP Microphone Connector Adapter.** Has standard microphone connector on one end and a standard phono pin plug on the other end. Handy for all installers of public address and hi-fi equipment, repair departments, labs, etc. Shpg. wt., 2 oz. **71 H 290. NET. 59c**
- Type C800 Microphone Cable Connector.** For use where splicing microphone lines is necessary. Connects two cables equipped with male or female microphone connectors. 4 oz. **71 H 291. NET. 59c**



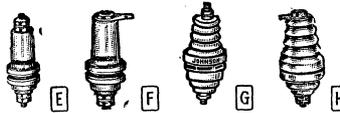
- Type E1106.** 6-ft. shielded cable with mike connector at one end; other end stripped and tinned. Shpg. wt., 1 lb. **71 H 292. NET. 1.03**
- Type E1110.** As above, but 10-ft. Wt., 1 1/4 lbs. **71 H 293. NET. 1.47**



- Type E906.** 6-ft. shielded cable with mike connectors on both ends. Shpg. wt., 1 lb. **71 H 294. NET. 1.32**
- Type E912.** As above, but 12-ft. Wt., 1 1/4 lbs. **71 H 295. NET. 1.76**
- Type E925.** As above, but 25-ft. Wt. 2 lbs. **41 S 911. NET. 2.79**

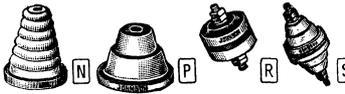
FAMOUS E. F. JOHNSON QUALITY PRODUCTS

INSULATORS



Thru-Panel Insulators. High mechanical strength; long leakage paths. White glazed porcelain, except 1steatite. *Have Type 108-740 jack, listed below. Shpg. wt., 12 oz.

Stock No.	Mfr's Type	Fig.	Top Ht.	Panel Hole	Hard-ware	NET EA.
73 H 225	135-40†	E	1 1/4"	7/8"	10-32	.35
73 H 226	135-40-2	F	1 1/4"	1"	*	.45
73 H 227	135-42†	E	5/8"	1 1/2"	10-32	.35
73 H 228	135-42-2	F	5/8"	1 1/2"	*	.45
73 H 229	135-44†	E	5/8"	5/8"	6-32	.27
73 H 230	135-45	E	1 1/8"	1 1/2"	10-32	.47
73 H 231	135-45-2	H	1 1/8"	1 1/2"	*	.57
73 H 233	135-46	E	2 1/4"	1 1/2"	1/4-20	1.30
73 H 235	135-47	E	4 1/2"	3 1/2"	1/4-20	1.85
73 H 223	135-48	G	2"	1 1/8"	10-32	.70
73 H 224	135-48-2	H	2"	1 1/8"	*	.83



Lead-in Bushings. Have many applications in transmitter and antenna installations. Ideal as power supply and high voltage terminals. 50, 51, 52, 55 are steatite, with nicked brass rod and nuts; 53 and 54 are porcelain, less hardware. Av. shpg. wt., 8 oz.

Stock No.	Mfr's Type	Fig.	Top Ht.	Max. Dia.	Panel Hole	NET EA.
73 H 160	135-50	S	1 1/2"	3/4"	1 1/2"	33c
73 H 161	135-51	S	1 1/2"	1 1/4"	2 1/2"	54c
73 H 162	135-52	S	1 1/2"	1 3/4"	1 3/2"	78c
73 H 163	135-53	P	1 3/4"	2 1/2"	1 1/2"	29c
73 H 164	135-54	N	4"	3 1/2"	2 1/4"	79c
73 H 165	135-55	R	1/4"	3/4"	1 1/2"	31c

Ultra-Steatite Cone Insulators. Smooth, non-ribbed high grade steatite insulators. Ideal for mounting coils, capacitors, etc. Threads tapped directly into the steatite. Width shown is max. (base). With screws, washers. Wt., 5 oz.

Stock No.	Mfr's Type	Height	Width	NET EACH
73 H 150	135-500	3/8"	5/8"	.23
73 H 151	135-501	1"	3/4"	.51
73 H 152	135-502	1 1/2"	1"	.51
73 H 153	135-503	2"	1 1/8"	.71
73 H 154	135-504	3"	1 1/2"	1.20

PLUGS AND JACKS



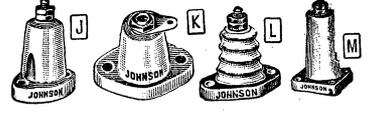
NON-INSULATED PLUGS AND JACKS
Positive contact. Banana type plugs have nickel-silver springs; jacks are nicked brass with phosphor bronze spring sleeves. Type 771 plugs have long screw for mounting on ceramic or steatite plug-in coil forms. Supplied with all hardware. Av. shpg. wt., 2 oz.

Stock No.	Type	Fits	Lgth.	NET
73 H 200	108-740	750, 750-2, 753	3/8"	12c
73 H 201	108-750	740	1 1/4"	13c
73 H 202	108-750-2	740	1 1/2"	14c
73 H 203	108-753	740	1 1/8"	14c
73 H 204	108-760	770, 771	1"	31c
73 H 205	108-770	760	1 25/32"	30c
73 H 206	108-771	760	1 1/2"	34c

NYLON TIP JACKS

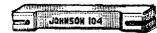
Low loss nylon insulated .081" tip jacks. Silver-plated beryllium copper contacts. Body threaded 1/4"-32; single nut mounting. D.C. breakdown volts, 11,000. Rated at 10 amps. Length 2 3/4". Diameter 3/8". Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Color	NET EACH
73 H 250	105-601	White	25c
73 H 251	105-602	Red	
73 H 252	105-603	Black	
73 H 253	105-604	Green	
71 H 254	105-605	Blue	
71 H 255	105-607	Yellow	



Stand-Off Insulators. High-glaze porcelain (except 1steatite). Ideal for transmitter applications, etc. Feature long leakage path, low capacity and freedom from moisture absorption. Heavy breakage-resistant bases. Nickel-plated brass hardware. Types 65, 65-2, 68, 68-2 are ribbed; others have drawn bases. †Have jacks as listed below. *Like Fig. L but square base. Av. shpg. wt., 1 lb.

Stock No.	Mfr's Type	Fig.	Body Ht.	Hard-ware	NET
73 H 120	135-20\$	J	1 9/16"	10-32	25c
73 H 121	135-20-2	K	1 9/16"	740†	30c
73 H 122	135-22\$	J	1"	8-32	19c
73 H 123	135-22-2	K	1"	740†	23c
73 H 139	135-24\$ J	J	3/8"	6-32	15c
73 H 125	135-60	*	4 1/2"	1/4-20	98c
73 H 126	135-62	*	2 3/4"	1/4-20	60c
73 H 127	135-65	L	1 3/8"	10-32	39c
73 H 128	135-65-2	M	1 3/8"	740†	39c
73 H 129	135-66	M	2 3/4"	1/4-20	87c
73 H 130	135-66-2	M	2 3/4"	760†	98c
73 H 131	135-67	M	4 1/2"	1/4-20	98c
73 H 136	135-68	*	2"	10-32	46c
73 H 137	135-68-2	*	2"	740†	54c



ANTENNA INSULATORS

Types 107 and 112 are wet-process porcelain; 800 lbs. breaking strength. Type 104 is dry-process porcelain; 400 lbs. breaking strength.

Stock No.	Type	Size	Wt.	NET
73 H 215	136-104	4" x 5/8" sq.	4 oz.	.26
73 H 216	136-107	7" x 1" dia.	10 oz.	1.18
73 H 217	136-112	12" x 1" dia.	1 1/4 lbs.	1.25

FEEDEr SPREADERS

General-purpose feeder spreaders for lowest leakage loss. For constructing open-wire feeders and transmission lines, with impedances of approximately 200 to 600 ohms. Unglazed porcelain bars, 3/8 x 1/2", treated with "Silanex", a silicone product—impervious to moisture. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Length	NET EACH
73 H 111	136-122	2"	17c
73 H 112	136-124	4"	24c
73 H 113	136-126	6"	32c

NYLON BANANA JACKS AND PLUGS

Compact, high voltage insulated, plugs and jacks. Molded of tough low-loss nylon. Retain low-loss qualities through wide temperature range and high humidity. Plugs have one-piece nickel-plated brass body and pin; nickel silver springs. Solderless connection takes up to No. 16 wire. Voltage breakdown of jacks, 11,000 v. Jacks mount in 2 1/4" hole. 2 oz.

Stock No.	Type	Fig.	Color	Length	NET EACH
71 H 266	108-901	T	White	1 5/8"	14c
71 H 267	108-902	T	Red	1 5/8"	
71 H 268	108-903	T	Black	1 5/8"	
71 H 269	108-904	T	Green	1 5/8"	
71 H 270	108-907	T	Yellow	1 5/8"	
71 H 271	108-301	W	White	1 3/8"		21c
71 H 272	108-302	W	Red	1 3/8"	
71 H 273	108-303	W	Black	1 3/8"	
71 H 274	108-304	W	Green	1 3/8"	
71 H 275	108-307	W	Black	1 3/8"	
71 H 287	108-304	W	Yellow	1 3/8"	

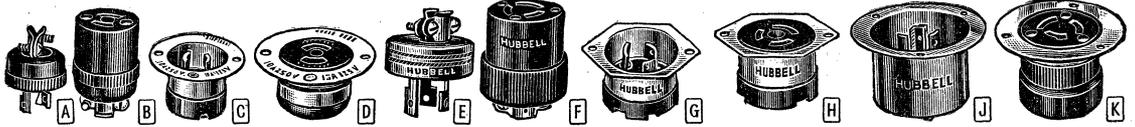
NYLON TIP PLUGS

Nylon insulated solderless tip plugs. Fit all standard tip jacks. No metal surfaces exposed when inserted. Withstand high voltages. Current rating 10 amps. Pin size, 3/8" long; .081" diameter. Body, 7/8" long; 3/8" diameter. Wt., 2 oz.

Stock No.	Mfr's Type	Color	NET EACH
71 H 256	105-301	White	16c
71 H 257	105-302	Red	
71 H 258	105-303	Black	
71 H 259	105-304	Green	
71 H 264	105-305	Blue	
71 H 265	105-307	Yellow	

Electrical Plugs, Receptacles and Tape

HARVEY HUBBELL "TWIST LOCK" CONNECTORS



A wide selection of heavy-duty electrical connectors for industrial as well as home use. Available in both midjet and standard sizes. Feature "Twist Lock" design for safe, sure connections. Just plug connectors together and twist for a locked connection.

tion that cannot be accidentally pulled apart. Ideal for extension cables, portable electric tools, motors, and all types of electrical equipment subject to vibration. Conform to National Electrical Code Standard. Av. shpg. wt., 3 oz.

MIDGET-SIZE CONNECTORS 2-WIRE NON-POLARIZED TYPES

Type 7428 male cap and Type 7427 female connector are brown bakelite with metal cable clamps for 3/16 to 1/2" O.D. cords. Type 7466 male base and Type 7468 female base are bakelite with metal housings. Rated 10 amps at 250 v., or 15 amps at 125 v.

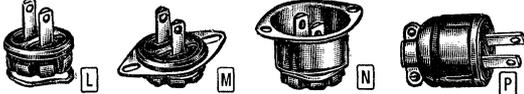
Stock No.	Mfr's Type	Fig.	Description	NET EACH		
				1-9	10-49	50-Up
41 H 282	7428	A	Male Cap	.39	.31	.28
41 H 283	7427	B	Female Conn.	.73	.58	.52
41 H 284	7466	C	Male Base	.85	.69	.62
41 H 287	7468	D	Female Base	1.03	.82	.74

3-WIRE POLARIZED TYPES

Similar to above connectors, but for use with 3-conductor cables. Insulation is black bakelite. Clamps will accommodate cords from .281 to .421" O.D. Polarization prevents incorrect connection. Rated 10 amps at 250 v., or 15 amps at 115 v.

Stock No.	Mfr's Type	Fig.	Description	NET EACH		
				1-9	10-49	50-Up
41 H 288	7485	A	Male Cap	.93	.74	.67
41 H 289	7484	B	Female Conn.	1.35	1.08	.97
41 H 290	7486	C	Male Base	1.20	.96	.86
41 H 291	7487	D	Female Base	1.46	1.17	1.05

AMPHENOL AC PLUGS AND RECEPTACLES



U. L. Approved. All plugs and receptacles are rated at 15 amps, 110 v., or 10 amps, 250 v. High-dielectric black bakelite. Fig. L mounts with retainer ring. Requires 1 1/8" hole. Fig. M has mtg. plate. Requires 1 1/8" hole, mtg. centers, slotted 1 1/2" to 1 3/4". Fig. N is recessed type. Requires 1 3/8" hole, mtg. centers, 1 3/4". Fig. P is shielded type with clamp. *For standard or polarized plugs. All are 2 pole except † 3 pole. Av. shpg. wt., 3 oz.

RETAINER RING TYPE

Stock No.	Mfr's Type	Fig.	Description	NET EACH		
				1-99	100-249	250-Up
40 H 675	61-M	L	Male Standard	20¢	17¢	15¢
40 H 676	61-MP	L	Male Polarized	20¢	17¢	15¢
40 H 681	60-M	L	Male Polarized†	25¢	21 1/2¢	19¢
40 H 677	61-F	L	Female Universal*	19¢	16¢	14 1/2¢
40 H 682	60-F	L	Female Polarized†	22¢	19¢	17¢

WITH SEPARATE MOUNTING PLATE

Stock No.	Mfr's Type	Fig.	Description	NET EACH		
				1-99	100-249	250-Up
40 H 680	61-M1	M	Male Standard	23¢	19¢	17¢
40 H 681	61-MP1	M	Male Polarized	23¢	19 1/2¢	17 1/2¢
40 H 683	60-M1	M	Male Polarized†	27¢	23 1/2¢	21¢
40 H 682	61-F1	M	Female Universal*	23¢	19¢	17¢
40 H 684	60-F1	M	Female Polarized†	24¢	21¢	19¢

WITH BELOW-SURFACE SHELL

Stock No.	Mfr's Type	Fig.	Description	NET EACH		
				1-99	100-249	250-Up
40 H 685	61M10	N	Male Standard	29¢	25¢	22 1/2¢
40 H 686	61MP10	N	Male Polarized	30¢	26¢	23¢
40 H 687	61F10	N	Female Universal*	28¢	24 1/2¢	22¢

SHIELDED CABLE TYPE

Stock No.	Mfr's Type	Fig.	Description	NET EACH		
				1-99	100-249	250-Up
40 H 690	61M11	P	Male Standard	33¢	28¢	25¢
40 H 691	61MP11	P	Male Polarized	33¢	28¢	25¢
40 H 692	61F11	P	Female Universal*	31¢	27¢	24¢
40 H 693	60M11	P	Male Polarized†	38¢	32 1/2¢	29¢

TYPE 61-MIP-61F. Female receptacle. Same as Fig. M above except has molded-in plate. Two mounting holes on 1 1/2" centers. Takes all standard or polarized 2-pole plugs. High-dielectric, black bakelite insulation. Shpg. wt., 3 oz.

40 H 085. 1-99, NET EACH.....19¢
100 to 249, EACH.....16¢ 250 or More, EACH.....14¢

TYPE 61-61. Shell only. Converts Fig. L male plugs and female receptacles to Fig. N, for recessed mtg. Shpg. wt., 2 oz.

40 H 086. 1 to 99, NET EACH.....8¢
100 to 249, EACH.....7¢ 250 or More, EACH.....6¢

STANDARD SIZE CONNECTORS 3-WIRE POLARIZED TYPES

Type 7572 male cap, Type 7556 male base and Type 7557 female base have rust-resistant metal housings. Type 7555 female connector is bakelite. Clamps take cords from .296 to .562 O.D. All are rated 10 amps at 250 v., or 15 amps at 125 v. *Armored.

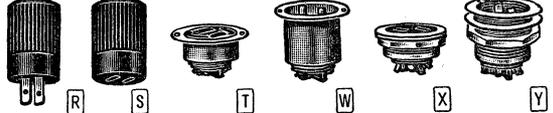
Stock No.	Mfr's Type	Fig.	Description	NET EACH		
				1-9	10-49	50-Up
41 H 292	7572	E	*Male Cap	1.11	.88	.79
41 H 293	7555	F	Female Conn.	1.75	1.41	1.26
41 H 294	7556	G	Male Base	1.46	1.17	1.05
41 H 295	7557	H	Female Base	1.62	1.29	1.17

HEAVY-DUTY 3-WIRE POLARIZED TYPES

Type 7311 male cap, Type 7327 male base and Type 7328 female base have rust-resistant metal housings. Type 7313 female connector is bakelite. Clamps take cords from .437 to .750" O.D. Rated 20 amps at 250 v., or 10 amps at 575 v. *Armored.

Stock No.	Mfr's Type	Fig.	Description	NET EACH		
				1-99	100-249	250-Up
41 H 296	7311	E	*Male Cap	1.60	1.28	1.15
41 H 297	7313	F	Female Conn.	2.46	1.97	1.77
41 H 298	7327	J	Male Base	1.69	1.35	1.21
41 H 299	7328	K	Female Base	2.91	2.33	2.10

HART & HEGEMAN MIDGET CONNECTORS



Bakelite 2-prong cord connectors and receptacles. Rated 10 amps, 250 volts. 1-inch hole required for all receptacles. 3/8" contact spacing. Terminals are exposed; threaded cover. *With plate for screws. †With plate and lock ring. ‡Fits all receptacles. Prices below are OEM; write for prices on larger quantities. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Fig.	Description	NET EACH	
				1-99	100-999
52 N 721	80324	R	Male cable connector.	.70	.48
52 N 722	80325	S	Female cable connector.	.70	.48
52 N 723	80332	....	Cord connector	1.13	.92
52 N 724	80330§	....	Terminal cover.	.38	.19
52 N 725	80326*	T	Female flush receptacle.	.72	.54
52 N 726	80328*	W	Male flush receptacle.	.84	.63
52 N 727	80327*	X	Female flush receptacle.	1.09	.88
52 N 728	80329*	Y	Male flush receptacle.	1.13	.92
52 N 729	80331†	....	Female flush recept., recessed	1.13	.92

DUTCH BRAND TAPE

3/4" FRICTION TAPE. A very popular standard width tape. For radio, electrical, home and shop applications. Av. wt., 6 oz.

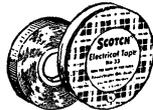


Stock No.	Size	NET PER ROLL		
		1-29	30-99	100-Up
52 N 610	3/4"x13'	14¢	13¢	12¢
52 N 611	3/4"x32'	22¢	21¢	20¢
52 N 612	3/4"x68'	42¢	40¢	38¢

52 N 620. 3/8" Friction Tape. 60 ft. long. 7 oz.....21¢

PLASTIC TAPE. Strong, black vinyl plastic electrical tape. Stretches and conforms to irregular surfaces. Its high-dielectric strength and excellent adhesive qualities make it a favorite with radiomen and electricians. 3/4" type is only .007". Rated 7000 volts. 1/2" type is .010". Rated 10,000 volts. Av. shpg. wt., 6 oz.

52 N 614. 3/4"x44'. NET PER ROLL.....1.00
50-Up, EACH.....80¢ 15-49, EACH.....90¢
52 N 623. 1/2"x108'. NET PER ROLL.....1.84
48-Up, EACH.....1.50 6-47, EACH.....1.66



SCOTCH NO. 33 PLASTIC BACKED TAPE

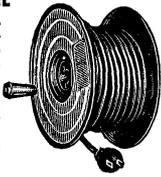
Plastic-backed electrical tape. .007" thick; 10,000 v. dielectric strength. Molds to irregular surfaces. Resistant to chemicals, abrasion, oil, salt water, weather. Av. wt., per roll, 6 oz.

Stock No.	Size	Per Roll	
		12-Up, Per Roll	Per Roll
52 N 613	3/4"x20'	1.54	.49
52 N 616	3/4"x66'	1.47	1.32

Electrical Accessories

RACINE CORD'N REEL

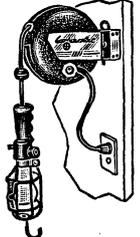
Extension cord and storage reel with built-in electrical outlet. Designed to permit unwinding only as much cord as is needed during use. Has service outlet built into reel hub to furnish current for appliance or tool to be used. Excellent for use with shop tools, lawn mowers, floor sanders, vacuum cleaners, etc. Heavy-duty, U.L. Approved, rubber-covered 2-conductor cords.



Stock No.	Mfr's Type	Length, Feet	Wire Size	Amps	Wt., Lbs.	NET EACH
46 N 954	1825	25	18	7	2	3.40
46 N 558	1850	50	18	7	3	5.12
46 N 959	1650	50	16	10	4	7.38

CORDOMATIC DROP-LIGHT REELS

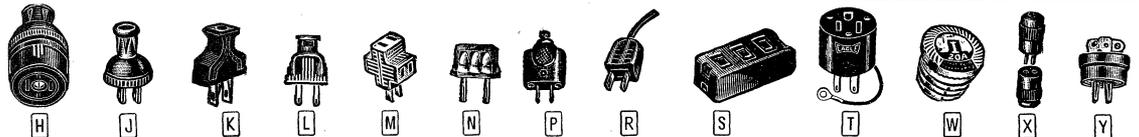
Unique, self-winding drop light. Provides light where you want it. Cord is out of the way when light no longer needed. No. 18, 2-conductor cord, covered with tough, neoprene insulation. Crack-proof handle with built-in outlet and toggle switch. Chrome reflector has swing-open bulb guard. Steel housing is equipped with universal mounting bracket. Less bulb. U.L. Approved.



Stock No.	Type	Ft.	Lbs.	EACH
46 NX 976	700	20	7	14.65
46 NX 977	800	30	8	18.57
46 NX 978	900	40	9	22.47

TAP-A-LINE OUTLET

An extremely handy multiple outlet tap. Ideal for home, store or factory use. Provides multiple power outlets for tools, appliances and test equipment. Up to 8 AC line cords can be plugged into this outlet strip. Has two parallel conductors, spaced 1/2" apart (prong separation of standard plugs). Encased in tough, ivory plastic housing. 12" long and 1/2" square. Supplied with 4 ft. line cord and plug. Rated 1650 watts. Wt., 1 1/2 lbs. 52 N 636. NET.....1.47
 2-Ft. Tap-A-Line. As above, but 2-ft. long. Shpg. wt., 2 1/2 lbs. 52 N 637. NET.....2.40



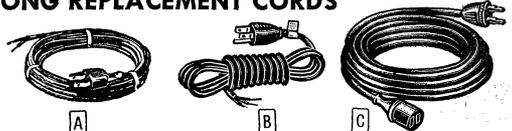
VALUES IN HANDY ELECTRICAL ACCESSORIES

- H Line Cord Receptacle.** Rubber pull-handle receptacle. Dia., 1 1/4". 15 amps at 125 v. Shpg. wt., 3 oz. 52 N 603. EACH.....26c
- J Rubber-Handle Plug.** Unbreakable soft-rubber. Approved for power tools. Excellent for use with 52 N 603, above, for line cord extensions. Shpg. wt., 2 oz. 52 N 602. EACH.....8c
- K Bakelite Plug Cap.** With convenient finger-grip. Cap size, 1 1/8x1 1/8x3/16" deep. Brown finish. Shpg. wt., 2 oz. 52 N 600. EACH.....8c
- L Flat Rubber Plug.** Non-breakable molded rubber plug cap. Because of their narrow construction, these caps are ideal for use with multiple AC receptacles similar to Fig. S above. Easily disassembled. Screw terminal wiring. Rated 15 amps at 125 v.; 10 amps at 250 v. Shpg. wt., 3 oz. 52 N 641. EACH.....10c
- M Rubber Cube Tap.** Spring-action, 3-way outlet of one-piece, soft rubber. U. L. Approved. Shpg. wt., 4 oz. 52 N 609. EACH.....23c
- N Continental Adapter.** Male-female adapter. Permits using standard flat-prong American plugs in Continental Europe outlets designed for round prongs. Wt., 2 oz. 49 N 536. NET.....29c

BELDEN GRIP-PRONG REPLACEMENT CORDS

A LIGHT-DUTY CORDS

Type 17126M (Old 1765B). SP-1 6-Foot Replacement Cord. No. 18 wire. Brown, rubber-covered cord. Extra-flexible. Unbreakable, plastic plug on one end; other end stripped. Ideal cord for electric clocks, lamps, fans, radio sets and other small electrical appliances. U.L. Approved. Shpg. wt., 6 oz. 49 T 211. NET.....24c



Type 17129M (Old 1735K). SP-1. As above, but 9 feet. Shpg. wt., 8 oz. 49 T 236. NET.....29c

Type 17330M (Old 1750K). SJ 10-Foot Replacement Cord. No. 16 wire. For use on washing machines, workshop tools, etc. U.L. Approved. Shpg. wt., 3/4 lb. 49 T 213. NET.....62c

Type 17308M (Old 1754K). SJ 8-Foot Replacement Cord. No. 18 wire. Black rubber cord. U.L. Approved. 1/2 lb. 49 T 215. NET.....45c

Type 17206M (Old 1749K). SV 6-Ft. Replacement Cord. No. 18 wire. For use on small appliances. Gray rubber. Cord-holder plug. U.L. Approved. Wt. 1/2 lb. 49 T 212. NET.....35c

Type 17408M (Old 1766B). SJ 8-Foot Appliance Grounding Cord. No. 18 wire. Used for electric power tools and appliances. 3 conductor cord with 3-prong plug. U.L. Approved. Shpg. wt., 1/2 lb. 49 T 219. NET.....65c

C HEAVY-DUTY CORDS

Type 17270M (Old 1751K). SV 20-Foot Extension Cord. No. 18 gauge wire. Extra-flexible gray cord with plastic cord-holder plug and plastic connector. Specifically designed for use on vacuum cleaners and other small appliances and tools such as soldering irons, grinders, polishers, power saws, etc. In natural gray; will not mark or stain floors. Handsomely styled to match the finest appliances or electric tools. Convenient, safe and dependable to use. Grip-type prongs insures long service life. Rubber covered. Underwriters' Laboratories Approved. Shpg. wt., 1 lb. 49 T 214. NET EACH.....96c

Type 17361M (Old 1756K). SJ 10-Foot Extension Cord. No. 16 wire. For general-purpose use. Unbreakable plastic plug and connector. Underwriters' Laboratories Approved. Black rubber covered. Shpg. wt., 1 lb. 49 T 216. NET.....82c

Type 17395M (Old 1791K). SJT 50-Foot Extension Cord. No. 16 wire. For electric lawn mowers, yard extensions, etc. U.L. Approved. Red plastic. Shpg. wt., 3 3/4 lbs. 49 T 217. NET.....4.64

Type 17397M (Old 1792K). SJT 100-Foot Extension Cord. No. 16 wire. Extra-flexible. Red plastic. Same uses as above. U.L. Approved. Shpg. wt., 6 1/2 lbs. 49 T 218. NET.....7.50



REPLACEMENT CORD VALUES

- E 6-Ft. Replacement Cord Set.** Heavy, plastic insulated cord firmly secured in sturdy, molded plug on one end; other end stripped. Brown. Shpg. wt., 5 oz. 49 T 230. 10 or More, EA. 19c. EA...21c
- F Cube Tap Extension.** 3-way extension tap. Rated at 15 amps 125 volts; 10 amps 250 volts. With 6-foot cord and bakelite plug cap. Shpg. wt., 7 oz. 52 N 605. 10 or More, EA. 33c. EA...37c

- G Rubber Cube Tap Extension.** An all-rubber, solderless, 3-way extension cord set. Consists of 9-ft. cord, unbreakable cube tap and plug. No. 18 wire. Spring-action contacts in cube receptacle provide positive connection with plugs. Shpg. wt., 8 oz. 52 N 608. EACH.....59c
- 6-Ft. Extension.** Same as above, but with 6-ft. cord. Shpg. wt., 6 oz. 52 N 621. EACH.....50c

- P Fused Plug.** Protects equipment. Small fuses for each side of line fit snugly in cylindrical receptacles—blown fuse easily removed for quick replacement. Interchangeable with any standard AC plug. Supplied less 3AG cartridge fuses. (See pages 214, 215 for fuses.) Shpg. wt., 3 oz. 52 N 648. EACH.....33c
- R Academy Automatic Plug.** No wire stripping. Just insert through cap. Sure-grip "needles" on prongs make positive connection through insulation. For POSJ cable only. Shpg. wt., 3 oz. 52 N 607. NET EACH.....10c
- S Academy 3-Way Outlet.** No wire stripping—insert cord, close case. 15 amps/125 v. or 10 amps/250 v. Shpg. wt., 5 oz. 52 N 622. Mahogany plastic. NET 52 N 619. White plastic. EACH...16c
- T Parallel Ground Adapter.** Adapts 3-prong plugs for use in standard 2-prong AC outlets. Rated at 15 amps, 125 v. Has 3" wire with grounding plug. Shpg. wt., 3 oz. 52 N 669. NET EACH.....25c
- W Plug Fuses.** U.L. Approved. Clear view—easily seen when blown. Shpg. wt., 8 oz. 5 per box. 52 B 170. 10 Amps..... 52 B 171. 15 Amps..... 52 B 172. 20 Amps..... 52 B 173. 25 Amps..... 52 B 174. 30 Amps..... } PER BOX 25c

- X Morse Midget Cord Connector.** 2-conductor, pull-apart type. For AC-DC cords, phono motors, pilot lights, etc. Consists of plug and receptacle. 1 1/2" long and 3/8" dia. Shpg. wt., 2 oz. 52 N 626. 10 or More, EA. 44c. EA...49c
- Y Cord Clamp Plug.** Two-wire rubber plug cap with cord clamp attachment riveted on. Cord clamp is adjustable to all wire sizes and provides absolute strain relief; wire cannot slip out of clamp—clamp will not move. Spring-action prongs. Highly dependable. Brown. Shpg. wt., 4 oz. 52 N 604. 10 or more, EACH 27c. EA. 35c

WIRE CONNECTORS

Solderless. Simply strip two wire ends, push into connector and screw cap down. No tools needed. Wires cannot be pulled out. Finest grade phenolic. U. L. Approved. Av. wts.: Pkg. of 25, 5 oz.; Pkg. of 100, 1 1/4 lbs.

Wire Size	Stock No.	Pkg. of 25	Stock No.	Pkg. of 100
16-18	52 N 874	.24	52 N 870	.73
14-18	52 N 875	.39	52 N 871	1.06
12-18	52 N 876	.46	52 N 872	1.28
10-18	52 N 877	.89	52 N 873	2.41

Belden Cable and Wire



SHIELDED MICROPHONE CABLE SINGLE CONDUCTOR—FOR HIGH-IMPEDANCE MIKES

No. 25, tinned, stranded conductor; 3x33 copper and 4x33 steel wire. Covered with cellulose acetate yarn braid, polyethylene insulation, tinned copper shield and chrome plastic jacket. *Rubber insulation and black rubber jacket. Lengths under 100 ft. available only in spool sizes listed below.

Mfr's Type	O. D.	Wt., 100 ft.
8401	.200"	3 lbs.
8410*	.245"	4 lbs.
8411	.144"	2 1/4 lbs.

Mfr's Type	15 ft. Spool		25 ft. Spool		50 ft. Spool		100 ft. Spool		Over 100 ft.	
	No.	NET	No.	NET	No.	NET	No.	NET	No.	Per 100'
8401	47 T 561	.81	47 T 562	1.18	47 T 563	2.30	47 T 560	4.21	47 W 564	4.21
8410*	47 T 447	1.32	47 T 444	2.16	47 T 443	3.82	47 T 442	7.20	47 W 444	7.20
8411	47 T 601	.64	47 T 602	.99	47 T 603	1.71	47 T 600	3.14	47 W 604	3.14

TWO-CONDUCTOR—FOR LOW-IMPEDANCE MIKES

Shielded cable. 8422 is No. 22 stranded (16x34) tinned copper, polyethylene insulation, chrome plastic jacket. 8412 is No. 20 stranded (26x34) cotton wrap, rubber ins., black rubber jacket. 8428 is heavy-duty studio cable, No. 18 stranded (41x34), cotton wrap, black rubber jacket. Lengths under 100 ft. available only in spool sizes listed below.

Mfr's Type	O. D.	Wt., 100 ft.
8428	.295"	7 lbs.
8412	.268"	5 1/2 lbs.
8422	.231"	4 lbs.

Mfr's Type	15 ft. Spool		25 ft. Spool		50 ft. Spool		100 ft. Spool		Over 100 ft.	
	No.	NET	No.	NET	No.	NET	No.	NET	No.	Per 100'
8428	47 T 465	1.71	47 T 466	2.79	47 T 467	5.29	47 T 454	10.29	47 W 468	10.29
8412	47 T 457	1.42	47 T 458	2.30	47 T 459	4.21	47 T 453	8.08	47 W 464	8.08
8422	47 T 451	1.08	47 T 452	1.67	47 T 455	3.09	47 T 450	5.59	47 W 456	5.59

MULTIPLE-CONDUCTOR MIKE AND POWER CABLE

For microphone and interconnecting power cable requirements. No. 20 stranded (26x34), tinned copper conductor, and color-coded conductors. Types 8423, 8424, 8425, 8426, 8427, and 8418 have cotton wrap, rubber insulation, rayon braid, tinned copper braid shield, and black rubber outer jacket. Types 8403, 8404, and 8405 have polyethylene insulation, rayon, tinned copper braid shield, and chrome vinyl plastic jacket. Types 8403, 8404, 8423, and 8424 for all low-impedance mikes; all others for general interconnecting power cable uses. Lengths under 100 ft. available only in spool sizes listed below.

Mfr's Type	O. D.	Wt., 100 ft.
8403	.247"	5 1/2 lbs.
8404	.250"	7 1/2 lbs.
8423	.277"	5 1/2 lbs.
8424	.295"	7 1/2 lbs.
8405	.275"	8 lbs.
8425	.323"	8 lbs.
8426	.349"	10 1/4 lbs.
8427	.360"	10 1/2 lbs.
8418	.386"	10 1/2 lbs.

Mfr's Type	Conductors	Mmf. per foot	15 ft. Spool		50 ft. Spool		100 ft. Spool		Over 100 ft.	
			No.	NET	No.	NET	No.	NET	No.	Per 100'
8423	3	85	47 T 461	1.62	47 T 462	4.80	47 T 460	8.82	47 W 463	8.82
8403	4	45	47 T 463	1.40	47 T 464	3.67	47 T 465	7.57	47 W 468	7.57
8404	4	42	47 T 559	1.70	47 T 565	4.41	47 T 566	8.82	47 W 568	8.82
8424	4	95	47 T 471	1.86	47 T 472	5.39	47 T 470	10.29	47 W 473	10.29
8425	5	58	47 T 481	2.06	47 T 482	6.42	47 T 480	12.64	47 W 483	12.64
8405	5	42	47 T 568	1.91	47 T 569	5.44	47 T 572	10.88	47 W 573	10.88
8426	6	60	47 T 491	2.65	47 T 492	7.89	47 T 490	15.14	47 W 493	15.14
8427	7	56	47 T 507	2.89	47 T 508	8.53	47 T 510	16.56	47 W 509	16.56
8418	8	64	48 T 834	2.89	48 T 835	8.77	48 T 836	16.86	48 W 837	16.86

UNSHIELDED TWO-CONDUCTOR WEATHERPROOF CABLE

For intercoms, speaker extensions, etc. 8205 is No. 22 stranded (7x30), rubber insulation, black cotton braid; 8204 is No. 18 (16x30), rubber insulation, white cotton braid.

Mfr's Type	O. D.	Wt., 100 ft.
8205	.165"	2 lbs.
8204	.122"	3 lbs.

8205	.....	47 T 861	.79	.....	47 T 860	2.40	47 W 862	2.40
8204	.....	47 T 640	1.22	.....	47 T 639	3.53	47 W 641	3.53



2-CONDUCTOR RUBBER SERVICE CORDS

Two conductor stranded bare copper wire with cotton fillers. Rubber insulation is 1/2" on type SJ, and 1/4" on SV. All are color coded for easy identification. 8452 and 8478 are No. 18 stranded (41x34). 8472, No. 16 stranded (65x34). *Indicates type SV, †indicates SJ. U.L. Approved. Lengths under 100 feet available only in spool sizes listed below.

Mfr's Type	O. D.	25 ft. Spool		50 ft. Spool		100 ft. Spool		Over 100 ft.		Lbs., 100 ft.
		No.	NET	No.	NET	No.	NET	No.	Per 100'	
8452*	.245"	47 T 411	1.42	47 T 412	2.40	47 T 410	4.26	47 W 413	4.26	5
8478†	.299"	47 T 401	1.62	47 T 402	2.79	47 T 400	5.14	47 W 404	5.14	5 1/2
8472†	.325"	47 T 406	1.91	47 T 407	3.38	47 T 403	6.32	47 W 408	6.32	5 1/2

MULTIPLE-CONDUCTOR WIRE

Excellent for 3, 4, and 5-conductor wire extension speakers, public address systems, test equipment, remote control circuits, press-to-talk intercom circuits, etc. Uniform quality. Bare copper flexible stranding; cotton wrap; rubber insulation; color-coded conductors; black rubber jacket. Av. shpg. wt., per 100-ft. spool. 5 1/2 lbs. Lengths under 100 ft. available only in spool sizes listed below.

Type	O. D.
8453	.265"
8454	.265"
8455	.280"

Mfr's Type	Cond.	Wire Size	15 ft. Spool		50 ft. Spool		100 ft. Spool		Over 100 ft.		Lbs., 100 ft.
			No.	NET	No.	NET	No.	NET	No.	Per 100'	
8453	3	18 (41x34)	47 T 421	1.17	47 T 422	2.94	47 T 420	5.39	47 W 423	5.39	
8454	4	18 (41x34)	47 T 431	1.22	47 T 432	3.53	47 T 430	6.57	47 W 433	6.57	
8455	5	3-22 (16x34) 2-18 (41x34)	47 T 441	1.37	47 T 442	3.92	47 T 440	7.30	47 W 443	7.30	



SHIELDED PA AND SOUND SYSTEM CABLE

For long runs in speaker installations. 8208 and 8209 are 2-cond. 8206, 1-cond.; 8735, 3-cond. All have No. 18 stranded copper conductor (except 8735), cotton or paper wrap, rubber insulation (except 8735), and copper braid shield. 8735 is No. 22 stranded (7x30) and has plastic insulation 8209 in weatherproof cotton outer jacket; 8208, 8735 plastic; 8206 in copper braid. Lengths under 100 ft. available only in sizes listed below.

Mfr's Type	O. D.	15 ft. Spool		50 ft. Spool		100 ft. Spool		Over 100 ft.		Lbs., 100 ft.
		No.	NET	No.	NET	No.	NET	No.	Per 100'	
8206	.155"	47 T 831	.71	47 T 832	1.91	47 T 830	3.38	47 W 833	3.38	2
8208	.260"	47 T 852	1.15	47 T 853	3.18	47 T 851	5.83	47 W 854	5.83	4
8209	.258"	47 T 847	1.08	47 T 848	3.04	47 T 850	5.59	47 W 849	5.59	3 1/2
8735	.195"	48 T 872	.85	48 T 873	2.45	48 T 876	4.21	48 W 874	4.21	3

JUKE BOX CABLE



Mfr's Type	O. D.
8783	.240"
8782	.058"x.115"
8785	.195"x.300"
8786	.195"x.300"

High-quality speaker and control cable for all juke box applications. All have vinyl-plastic inner insulation; chrome vinyl plastic outer jacket. Type 8782 parallel is No. 24 stranded (7x32) for speaker cable; 1 bare cond., 1 tinned copper cond. Others for use as juke box control cable. 8783 is 3-conductor, color-coded. 1—No. 20 (10x30). 2—No. 16 (26x30). Type 8785 oval is 5-cond. color-coded. No. 22 stranded (7x30) tinned copper with copper braid shield over 3 conductors, twisted pair unshielded. 8786 oval is 6-cond. color-coded. 2—No. 22 (7x30). 4—No. 24 (7x32) tinned copper braid shield over 4 conductors; twisted pair unshielded.

Stock No.	Mfr's Type	Wt., 100 ft.	NET Per ft.	NET Per 100 ft.
48 W 867	8783	4 lbs.	5¢	4.26
48 W 868	8782	10 oz.	1 1/2¢	.91
48 W 869	8785	6¢	6¢	5.14
48 W 864	8786	3 lbs.	8¢	6.47

CATHODE-RAY TUBE CABLE

Type 8869. High voltage cable for CR tubes, power supplies and other applications. High dielectric strength, corona resistance and minimum surface leakage. No. 20 single conductor stranded (7x28) tinned copper, with white flame retardant polyethylene insulation. .035" thick. .108" O.D. 10,000 volts. Shpg. wt., 100 ft., 1 1/4 lbs. Available only in lengths shown below.

47 T 893, 25 ft. Spool. NET.....	67c
47 T 895, 100 ft. Spool. NET.....	1.71
Type 8868. As above but with .065" insulation, white with red stripe; rated at 20,000 volts. .168" O.D. Shpg. wt., 100 ft., 2 1/4 lbs.	
47 T 897, 25 ft. Spool. NET.....	1.00
47 T 896, 100 ft. Spool. NET.....	3.02

DUPLEX LIGHTING CABLE

Weatherproof 2-conductor stranded copper wire. Outer jacket is chrome vinyl plastic. One brown and one red conductor parallel in plastic vinyl oval sheathing. Av. wt., 100 ft., 5 lbs. Type 8677, No. 16 (19x29).

47 W 405, PER FOOT.....	63c
100 ft. or more, PER 100 FT.....	5.39
Type 8675, No. 14 (19x27). O.D., .139"x.36"	
47 W 415, PER FOOT.....	8c
100 ft. or more, PER 100 FT.....	7.15

Type 8673, No. 12 (19x25). O.D., .124"x.38"

47 W 425, PER FOOT.....	12c
100 ft. or more, PER 100 FT.....	9.95

SHIELDED GRID WIRE

Type 8885. No. 20 single stranded (10x30) tinned copper, .015" rubber insulation. Cellulose acetate yarn braid, fungus-resistant lacquer coating, tinned copper braid shield. Used in circuits where shielded grid return is required and to shield a circuit conductor from stray fields. Break-down voltage, 4000 volts. O.D., .117". Shpg. wt., 100 ft., 2 lbs. Lengths under 100 ft. available only in spool sizes listed below.

47 T 791, 15 ft. Spool. NET.....	59c
47 T 792, 25 ft. Spool. NET.....	96c
47 T 790, 100 ft. Spool. NET.....	2.94
47 W 793, Over 100 ft., PER 100 FT.....	2.94

PHONO PICKUP ARM CABLE

Type 8430. New, phono pickup arm cable of exceptional flexibility. Lightweight; has minimum effect on tracking pressure. No. 32 stranded (7x40) copper conductor with 000" vinyl plastic insulation. Red and black twisted pair; O.D., .055"

47 T 614, 10-ft. Spool. Wt., 4 oz. NET	35c
47 T 615, 25-ft. Spool. Wt., 5 oz. NET	.50c
47 T 616, 250-ft. Spool. Wt., 8 oz. NET	3.38
Type 8431, No. 24 stranded (16x36) tinned copper, rubber covered, tinned copper shield, brown cotton. Extremely limp and flexible. O.D., .095" Shpg. wt., 100 ft., 1 lb.	
47 T 611, 10-ft. Spool. NET.....	50c
47 T 612, 25 ft. Spool. NET.....	99c
47 T 610, 100 ft. Spool. NET.....	3.09
47 T 613, Over 100 ft., PER 100 FT.....	3.09

Belden Wire and Cable

3 & 4-CONDUCTOR INTERCOM CABLE

Type 8734. No. 22 tinned, stranded copper (7x30) with plastic insulation. 3 cond.: 1 tinned copper shield, 2 unshielded. Chrome vinyl plastic jacket overall. For station-to-station and extension wiring. 0.190" O.D. Shpg. wt., 100 ft., 2 3/4 lbs.



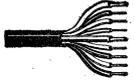
Type 8732. No. 22 tinned, stranded copper (7x30) with polyethylene insulation. 4 conductors: 1 pair tinned copper braid shield, 1 pair unshielded. Chrome vinyl plastic jacket. Oval, 174"x.282" O.D. Wt., 100 ft., 3 lbs.

48 W 877. PER FOOT.....5c
100 ft. or more, PER 100 FT.....3.67

Mfr's Type	O. D.	Wt., 100 ft.
*8443	.146"	2 lbs.
*8444	.164"	2 1/4 lbs.
*8445	.176"	2 1/2 lbs.
*8446	.218"	4 lbs.
*8447	.236"	4 1/2 lbs.
*8448	.241"	4 1/2 lbs.
*8449	.251"	5 lbs.

VINYL-COVERED PLASTIC-INSULATED CABLE

For permanent installation of speakers, control and intercom circuits, and other applications requiring highly durable, lightweight cable. Conductors are tinned copper, flexible, stranded wire, with color-coded, plastic insulation; chrome vinyl plastic jacket overall. *All conductors are No. 22 stranded (7x30). †Have two conductors of No. 18 stranded (16x30); the others are No. 22 stranded. Lengths under 100 ft. available only in spool sizes listed below.



Mfr's Type	Cond.	15 ft. Spool		25 ft. Spool		100 ft. Spool		Over 100 ft.	
		No.	NET	No.	NET	No.	NET	No.	Per 100'
*8443	3			47 T 361	.81	47 T 360	2.43	47 W 362	2.43
*8444	4			47 T 371	.96	47 T 370	2.94	47 W 372	2.94
*8445	5			47 T 381	1.14	47 T 380	3.63	47 W 382	3.63
†8446	6	47 T 311	1.03			47 T 310	5.24	47 W 312	5.24
†8447	7	47 T 321	1.13			47 T 320	5.83	47 W 322	5.83
†8448	8	47 T 331	1.18			47 T 330	6.12	47 W 332	6.12
†8449	9	47 T 341	1.27			47 T 340	6.76	47 W 342	6.76

SHIELDED P.A. AND SOUND SYSTEM CABLE

For public address and intercom use. All have inner insulation of vinyl plastic except 8432 and 8433 (rubber) and 8799 (cotton braid). Outer jackets of chrome vinyl plastic except *copper braid shield, 8432 and 8433 are No. 20 stranded (10x30); 8789, 8790 and 8791 are No. 18 stranded (7x26); 8799 is No. 18 solid (for PA and broadcast use); 8779 and 8780 are No. 16 stranded (19x29).



Stock No.	Mfr's Type	Cond.	O. D.	Lbs., 100 ft.	PER FOOT	100 Ft. For
48 W 884	8432*	2	.225"	3 1/2	7¢	5.98
48 W 886	8433*	3	.230"	5 1/4	8¢	7.45
48 W 814	8799*	2	.225"	4 1/2	8¢	6.17
48 W 815	8780	2	.256"	5	8¢	6.17
48 W 865	8789*	2	.205"	3	5¢	4.41
48 W 803	8790	2	.225"	5	5 1/2¢	4.56
48 W 804	8791	3	.230"	5 1/4	7¢	5.73
48 W 885	8799*	2	.165"	3	6¢	4.85

UNSHIELDED P.A. AND SOUND SYSTEM CABLE

For PA, intercom, speaker extension, alarm systems, etc. High insulation resistance and precision cabling assure low-noise circuits free from cross-talk. All have vinyl insulation except 8762 which has polyethylene. All have outer jackets of chrome vinyl plastic except 8482, 8483, 8460 and 8470 which are twisted lead types. 8762 has aluminum foil shield over copper ground wire and twisted pair, stranded (7x28). *Solid copper conductors. †Stranded (7x26), ‡stranded (19x29).

Stock No.	Mfr's Type	Cond.	Wire Size	O. D.	Lbs., 100 ft.	PER FOOT	100 Ft. For
48 W 878	8482*	2	19	.115"	3 1/2	1 1/2¢	1.25
48 W 879	8483*	3	19	.132"	1 1/2	2¢	1.76
48 W 805	8486*	2	19	.162"	3 1/2	2¢	1.85
48 W 806	8487*	3	19	.176"	2 1/2	3¢	2.34
48 W 809	8762	2	20	.166"	2	4¢	3.23
48 W 816	8460†	2	18	.175"	2 1/2	3¢	2.35
48 W 817	8461†	2	18	.195"	3	5¢	3.97
48 W 818	8470‡	2	16	.195"	2 3/4	3 1/2¢	2.79
48 W 819	8471‡	2	16	.246"	4	4 1/2¢	3.82

2-CONDUCTOR BROADCAST AUDIO CABLE

All have tinned, solid-copper conductors. 8436, 8437 and 8440 have No. 22 solid copper ground wire parallel to twisted pair under copper spiral-wrapped shield (8437, copper braid shield). All others have 2 conductors under copper braid shield. Outer jackets: Type 8436 and 8437, black vinyl plastic; 8438 and 8439, copper braid; 8440, chrome vinyl plastic. Type 8438 and 8440 have waxed cotton braid over cotton wrap; 8436 and 8439, cellulose-acetate yarn braid over cellulose-acetate yarn wrap; 8437, waxed cotton braid over cellulose-acetate yarn wrap.



Stock No.	Mfr's Type	Gauge	O. D.	Lbs., 100 ft.	PER FOOT	100 Ft. For
48 W 859	8436	22	.180"	2	5 1/2¢	4.56
48 W 886	8437	22	.222"	3 1/2	6¢	4.95
48 W 887	8438	20	.140"	2 3/4	5¢	4.07
48 W 888	8439	20	.150"	3 1/4	5 1/2¢	4.70
48 W 889	8440	22	.185"	3	5¢	4.41

COPPER BRAID SHIELDING AND BONDING CABLE

Mfr's Type	I. D.	Stranding
8660	1 1/8"	96x34
8668	1 1/4"	120x34
8661	3/8"	192x34
8669	1/2"	336x34
8662	2 3/8"	576x34

Flexible, braided and tinned copper for shielding conductors and cables. Useful for forming TVI-proof, metal-to-metal bonding. Braided in tubular form for easy slip-on installation over wiring. Av. shpg. wt., per 50 ft., 1 1/2 lbs. Lengths under 50 ft. available only in 10 ft. spools.



Mfr's Type	10 ft. Spool		50 ft. Spool		100 ft. or more	
	Stock No.	NET	Stock No.	NET	Stock No.	Per 100'
8660	49 T 351	.41	49 T 350	1.32	49 W 352	2.51
8668	49 T 356	.51	49 T 355	1.76	49 W 357	3.35
8661	49 T 361	.56	49 T 360	2.16	49 W 362	4.00
8669	49 T 366	1.11	49 T 365	5.14	49 W 367	9.41
8662	49 T 381	1.40	49 T 380	6.47	49 W 382	12.94

PAILED VINYL-COVERED CABLE

For intercom and telephone wiring. No. 22 solid tinned copper; color-coded vinyl plastic insulation. Conductors are cabled in twisted pairs; chrome vinyl plastic overall.



Stock No.	Mfr's Type	Conductors	O. D.	Lbs., 100 ft.	PER FOOT	100' or more, PER 100'
48 W 890	8740	2	.140"	1 1/4	2¢	1.76
48 W 891	8741	4	.191"	2 1/2	3 1/2¢	2.89
48 W 892	8742	6	.226"	3 1/2	5¢	3.82
48 W 893	8743	12	.281"	4 3/4	7¢	5.44
48 W 894	8744	18	.330"	6 1/2	9¢	7.79
48 W 898	8753	22	.370"	8	13¢	10.88
48 W 895	8745	30	.405"	10	13¢	14.21
48 W 896	8746	54	.520"	17	30¢	24.99

2-CONDUCTOR SHIELDED INTERCOM CABLE

All have vinyl plastic insulation, jackets; except 8738, 8758 have copper braid jackets. Tinned conductors. *Tinned copper spiral-wrapped shield. Black/red coding. 8737 is No. 22 stranded (7x30); 8738, 8759 are No. 20 stranded (7x28); 8738, 8739 are No. 22 solid.



Stock No.	Mfr's Type	O. D.	Lbs., 100 ft.	PER FOOT	100' or more, PER 100'
48 W 877	8737*	.166"	3 1/2	4¢	3.53
48 W 882	8738*	.130"	2	3¢	2.50
48 W 801	8758	.165"	2 1/2	4¢	3.09
48 W 802	8759*	.185"	2 3/4	5¢	3.82
48 W 883	8739*	.156"	2 1/4	3 1/2¢	2.89

TV CAMERA CABLE

Type 8280. 28-conductor TV camera cable. All conductors, plastic-insulated color-coded. Highest performance with black-and-white color. Has 4 No. 18 conductors; 21 No. 22 conductors in groups of 7 each; 3 coaxial cables (Nom. Imped. 51 ohms); paper separator, tinned copper braid shield; chrome plastic jacket .750" O.D. Wt., 100 ft. 35 lbs.



47 W 575. NET PER FT.....70¢ 100' or More, PER 100' ..58.80

75-OHM VIDEO CABLE

Type 8281. New coaxial video cable for black-and-white or color transmission. Single No. 20 solid copper conductor is polyethylene insulated. Has tinned copper, double braid shield and black polyethylene jacket. .310" O.D. Av. wt., 100-ft. coil, 8 lbs.



48 W 813. NET PER FT.....19¢ 100' or More, PER 100' ..16.17

RG HIGH-FREQUENCY CABLE

All cables have low-loss, flexible, polyethylene plastic inner jacket, covered with copper braid shield. All have black vinyl plastic outer jacket overall, except RG-9/U has gray plastic jacket and silver-coated copper shielding; RG-54A/U and RG-71/U have clear polyethylene outer jacket. Impervious to acids, alkalis, oils and gasoline. RG-8/U and RG-9/U are medium-sized video and communications cable. RG-11/U is medium-sized 75-ohm video and communications cable. RG-58/U is ideal for radio-frequency transmission, video, test equipment, etc. *Solid copper; all others stranded. See page 193 for connectors.



Stock No.	RG No.	Mfr's Type	Imp.	Mm/ft	O. D.	Lbs., 100 ft.	Per Ft.	100 Ft. For
47 W 511	8/U	8237	52	29.5	.405"	12	13 1/2¢	10.58
47 W 512	9/U	8242	51	30.0	.420"	15 1/4	28 1/2¢	22.98
47 W 513	11/U	8238	75	20.5	.405"	11	12¢	9.51
47 W 514	54A/U	8239	58	26.5	.250"	4 1/2	8 1/2¢	6.71
47 W 516	58/U	8240*	53.5	28.5	.195"	3	5 1/2¢	4.12
47 W 517	58A/U	8259	50	29	.195"	3 1/2	5 1/2¢	4.12
47 W 552	59/U	8241*	73	21	.242"	4 1/2	6¢	4.46
47 W 518	62/U	8254*	93	13.5	.242"	4	6 1/2¢	4.90
47 W 519	71/U	8257*	93	13.5	.250"	4 1/2	11¢	8.67

RUBBER-COVERED LEAD-IN

Type 8200. Flexible No. 18 tinned copper wire, stranded (7x27), with .040" live rubber insulation. Overall diameter, .126". Av. shpg. wt., 100-ft. spool, 1 1/2 lbs.



47 T 745. 100-ft. Spool. NET 1.47. 47 T 746. 500-ft. Spool. NET 5.83

Belden Cable and Wire

TYPE MIL-W-76A SRIR THERMOPLASTIC HOOK-UP WIRE



A general-purpose, heavy-duty, thermoplastic-insulated hook-up wire for critical electronic applications. Insulation is rated at 1000 volts rms. Made to conform to stringent government specifications. Features extremely high dielectric strength, excellent stability at high temperatures and extremely low moisture absorption. Has high flame and fume resistance. Vinyl thermoplastic insulation (.016" thick) is virtually impervious to damage from solvents. All are tinned copper conductors. Available in: black, brown, red, orange, yellow, green, blue, violet, gray and white. Specify color, 14 lbs.

Av. shpg. wt. 25-ft. spool, 6 oz.; 100-ft. spool, 1 1/4 lbs.; 1000-ft. spool, 14 lbs.

25-FOOT SPOOLS—SPECIFY COLOR

Stock No.	Mfr's Type	Size	Strands	O. D.	NET EACH
47 TT 214	8530	22	Solid	.059"	32¢
47 TT 215	8524	22	7x30	.064"	37¢
47 TT 216	8529	20	Solid	.066"	35¢
47 TT 217	8523	20	10x30	.072"	38¢

100 AND 1000-FOOT SPOOLS—SPECIFY COLOR

Mfr's Type	Size	Strands	O. D.	100' SPOOL		1000' SPOOL	
				No.	EACH	No.	EACH
8530	22	Solid	.059"	47 TT 218	.76	47 TT 222	4.56
8524	22	7x30	.064"	47 TT 219	.88	47 TT 223	5.88
8529	20	Solid	.066"	47 TT 220	.88	47 TT 224	5.88
8523	20	10x30	.072"	47 TT 221	1.03	47 TT 225	7.06

Type 882 Assorted Wire Kit. Contains ten 25-ft. spools of Type 8529 hook-up wire and a dispenser rack. Colors: black, blue, green, red, white, yellow, orange, brown, gray, violet. Shpg. wt., 2 1/2 lbs. **3.53**

Type 8824 Assorted Wire Kit. Contains eight 25-ft. spools of Type 8523 hook-up wire and a dispenser rack. Colors: black, blue, green, red, white, yellow, orange, brown. Shpg. wt., 2 1/2 lbs. **3.06**

POPULAR ANTENNA WIRE



High conductivity copper antenna wire. Ideal for all receiving and transmitting antenna requirements. Maximum tensile strength assures minimum stretch. *Nylclad insulation protects wire from corrosion. Supplied only in coil lengths listed below. Av. shpg. wt., per 100-ft. coil, 1 lb.

STRANDED BARE COPPER

Type 8000—7x22			Type 8002—7x24		
Stock No.	Spool	NET	Stock No.	Spool	NET
47 T 680	50 ft.	.81	47 T 654	50 ft.	.59
47 T 681	75 ft.	1.11	47 T 655	75 ft.	.73
47 T 682	100 ft.	1.40	47 T 656	100 ft.	.96
47 T 683	1,000 ft.	13.23	47 T 657	1,000 ft.	8.82

*SOLID NYLCLAD COPPER

Type 8008 No. 12			Type 8009 No. 14		
47 T	Spool	NET	47 T	Spool	NET
47 T 670	100 ft.	2.30	47 T 740	100 ft.	1.62
47 T 732	200 ft.	2.26	47 T 741	500 ft.	6.61
47 T 736	500 ft.	9.55			

INDOOR AERIAL WIRE

Type 8014. Extra flexible. No. 25 stranded (13x36), tinned copper conductor, with chrome vinyl plastic insulation. O.D., .044". Shpg. wts.: 25-ft. spool, 2 oz.; 500-ft. spool, 2 lbs.

47 T 930, 25-ft. spool. NET 29¢. 47 T 933, 500-ft. spool. NET 2.60

NYLCLAD HEAVY MAGNET WIRE



Type HNC. This heavy-duty Nylclad copper magnet wire combines the most desirable features of Formvar wire with the toughness and solvent resistance of nylon enamel. Unexcelled for difficult and exacting windings of any type. Outstanding features: Withstands winding abuse and forming operations; resists solvent action of all types of thinners; resists softening and brittleness at extreme temperatures; infinite moisture resistance.

1/2 lb. Spool				1 lb. Spool			
Stock No.	Size	Feet	NET	Stock No.	Size	Feet	NET
48 T 036	14	40	.61	48 T 086	14	80	1.15
48 T 037	16	63	.61	48 T 087	16	126	1.15
48 T 038	18	100	.62	48 T 088	18	199	1.18
48 T 039	20	157	.68	48 T 089	20	315	1.22
48 T 040	22	250	.68	48 T 090	22	501	1.28
48 T 041	24	396	.71	48 T 091	24	793	1.35
48 T 042	26	630	.76	48 T 092	26	1260	1.49
48 T 043	28	995	.84	48 T 093	28	1990	1.62
48 T 044	30	1570	.93	48 T 094	30	3140	1.81
48 T 045	32	2440	.97	48 T 095	32	4880	1.91
48 T 046	34	3930	1.11	48 T 096	34	7860	2.20
48 T 047	36	6200	1.29	48 T 097	36	12400	2.50
48 T 048	38	9700	1.70	48 T 098	38	19400	3.50
48 T 049	40	16050	2.62	48 T 099	40	32100	5.50

WIRE MARKERS

New Strain Code adhesive markers provide efficient method of wire and cable identification. Consist of 33 numeral markers (3/16" x 1/2") per card in numerical sequence from 1 through 33. On vinyl impregnated cloth or .003" soft aluminum. Pressure sensitive adhesive. Heat resistant. Card size: cloth, 2 3/8", aluminum 1 5/8" x 3/4". Shpg. wt., 3 oz. Write for quantity prices on 50 or more cards.

49 T 898, Cloth. PER CARD, 1-9.....23¢ 10-49, Each.....21¢
49 T 899, Aluminum. PER CARD, 1-9...21¢ 10-49, Each.....19¢

HIGH-TEMPERATURE THERMOPLASTIC HOOK-UP WIRE



Type B Mil-W-16878-B. For general use in temperature up to 212 degrees F. and with voltages up to 600 volts rms. Vinyl thermoplastic insulation (.010") resists damage from solvents. Conductors are stranded tinned copper. Supplied on durable spools for most convenient storage and use. A color designation such as "wh/black" indicates white body color and black striping. Available in 9 colors: wh/black, wh/brown, wh/red, wh/orange, wh/yellow, wh/green, wh/blue, wh/violet, wh/gray. Av. shpg. wt.: 100-ft. spool, 1/2 lb.; 1000-ft. spool, 4 3/4 lbs.

100 AND 1000-FOOT SPOOLS—SPECIFY COLOR

Mfr's Type	Size	Strands	O. D.	100' Spool		1000' Spool	
				No.	EACH	No.	EACH
8501	18	7x26	.068"	47 TT 260	1.38	47 TT 264	11.12
8502	20	7x28	.088"	47 TT 261	1.47	47 TT 265	9.41
8503	22	7x30	.050"	47 TT 262	1.12	47 TT 266	8.33
8504	24	7x32	.044"	47 TT 263	1.09	47 TT 267	7.89

CELLULOSE ACETATE HOOK-UP WIRE



Single, tinned copper conductor, with heavy cellulose acetate yarn wrap and cellulose yarn braid. Ideal for RF circuits where low-loss properties are required. Has fungus and flame resistant lacquer coating. 1000 v. AC breakdown voltage. DC insulation resistance is 200 megohms/ft. Type 8943 is 10x30, type 8947 is 10x30, type 8942 is 26x30, type 8938 is 41x30. Type 8941 has .072" O.D., Type 8943 has .076" O.D., Type 8945 has .080" O.D., Type 8947 has .087" O.D., Type 8948 has .097" O.D., Type 8938 has .115" O.D. Av. shpg. wt. per 100 ft.: no. 20, 1/2 lb.; no. 18, 1/2 lb.; no. 16, 1 lb.; no. 14, 1 1/2 lb.

TYPE 8941—20 SOLID

Coil	Red	Black	Blue	Green	Yellow	EACH
25 Ft.	48 T 331	48 T 330	48 T 332	48 T 333	48 T 334	.46
100 Ft.	47 T 920	47 T 917	47 T 922	47 T 923	47 T 924	1.47
1000 Ft.	48 T 351	48 T 350	48 T 352	48 T 353	48 T 354	11.40

Type 8818 Assorted Wire Kit. Contains eight spools of type 8941 cellulose acetate insulated hook-up and lead wire described above. Kit includes convenient work-bench dispenser rack. Has 25 ft. each of the following colors: black, blue, green, red, white, yellow, orange, and brown. Shpg. wt., 2 lbs. **3.68**

TYPE 8943—20 STRANDED

Coil	Red	Black	Blue	Green	Yellow	EACH
25 Ft.	48 T 361	48 T 360	48 T 362	48 T 363	48 T 364	.47
100 Ft.	47 T 940	47 T 941	47 T 942	47 T 943	47 T 944	1.47
1000 Ft.	48 T 381	48 T 380	48 T 382	48 T 383	48 T 384	12.20

Type 8820 Assorted Wire Kit. Contains eight 25-ft. spools of type 8943 cellulose acetate insulated hook-up and lead wire described above and a convenient work-bench dispenser rack. Colors: black, blue, green, red, white, yellow, orange, brown. Shpg. wt., 2 lbs. **3.76**

TYPE 8945—18 SOLID

47 T	Color	100-Ft. Spools	47 T	Color	100-Ft. Spools
47 T 900.	Red.	} NET EACH 1.62	47 T 910.	Red.	} NET EACH 1.76
47 T 901.	Black.		47 T 911.	Black.	
47 T 902.	Blue.		47 T 912.	Blue.	
47 T 903.	Green.		47 T 913.	Green.	
47 T 904.	Yellow.		47 T 914.	Yellow.	

TYPE 8942—16 STRANDED

47 T	Color	100-Ft. Spools	47 T	Color	100-Ft. Spools
47 T 916.	Black	} NET EACH 2.06	47 T 935.	Red	} NET EACH 2.60
47 T 917.	Red		47 T 936.	Black	
47 T 918.	Green				

TEST PROD WIRE



Rubber-covered lead designed for use with equipment where a limp, flexible conductor is necessary. Made to withstand extremely high voltages. No. 18 conductor is 65x36 stranded tinned copper with cotton wrapping. Type 8898 has 230" O.D. and .088" rubber insulation. 10,000 v. working voltage, 29,000 v. puncture voltage. Type 8899 has .140" O.D. and .043" rubber insulation. 5000 v. working voltage, 20,000 v. puncture voltage. Shpg. wt. per 100 ft.: 8898 4 lbs.; 8899, 2 lbs. Lengths under 100 ft. are available only in 10 and 25-ft. spools.

TYPE 8898				TYPE 8899			
Stock No.	Color	Length	Ea.	Stock No.	Color	Length	Ea.
47 T 811	Red	10 ft. spool	.56	48 T 911	Red	10 ft. spool	.41
47 T 801	Black	10 ft. spool	.56	48 T 901	Black	10 ft. spool	.41
47 T 812	Red	25 ft. spool	1.15	48 T 912	Red	25 ft. spool	.73
47 T 802	Black	25 ft. spool	1.15	48 T 902	Black	25 ft. spool	.73
47 T 810	Red	100 ft. spool	3.38	48 T 910	Red	100 ft. spool	2.25
47 T 800	Black	100 ft. spool	3.38	48 T 900	Black	100 ft. spool	2.25
47 W 813	Red	(Over 100' PER 100')	3.38	48 W 913	Red	(Over 100' PER 100')	2.25
47 W 803	Black	(PER 100')	3.38	48 W 903	Black	(PER 100')	2.25

LITZ WIRE

Type 8817. 5x44 stranded Celenamel with one nylon wrap. For rewinding antenna primaries, hand-winding RF coils, and similar applications. Outside diameter; .008". 100 ft. spool. Shpg. wt., 2 oz. **48 T 981. NET.....24¢**

CABLE LACING CORD

Genuine waxed linen twine. Hard-twist gray 8-cord; 50-lb. test. For binding cables in switchboards, transmitters, etc. 1-lb. spool, approx. 450 yds.; 1/2-lb. spool, approx. 225 yds. Shpg. wts.: 1-lb. spool, 1 1/4 lbs.; 1/2-lb. spool, 3/4 lb. **49 T 245. 1-lb. Spool. NET.....3.18**
49 T 246. 1/2-lb. Spool. NET.....1.68

Consolidated Wire

POSJ AND POT TYPE LAMP CORD

No. 18 stranded copper wire. POSJ has coded cotton wrap, heavy rubber jacket. POT has vinyl insulation. Shpg. wt. 3 lbs. per 100 ft. Lengths under 100 feet are available only in 25-ft. coil.



Mfr's Type	Color	25 ft. Coil		100 ft. Coil		Over 100 ft.	
		Stk. No.	NET	Stk. No.	NET	Stk. No.	PER 100'
POSJ	Brown	48 T 761	74c	48 T 760	2.73	48 W 763	2.73
POSJ	Black	48 T 771	74c	48 T 770	2.73	48 W 773	2.73
POT	Brown	48 T 765	63c	48 T 764	2.33	48 W 766	2.33
POT	White	48 T 768	63c	48 T 769	2.33	48 W 767	2.33

RUBBER SHEATHED SERVICE CORD

New, high-quality, rubber-sheathed service cord designed to provide dependable service. Excellent for a variety of applications: Power supply cords, remote control circuits, electrical tools, appliances, trouble lights, sound systems, garage lamps, etc.—wherever rough usage power lines are required. Uniform quality, black rubber jacket resists abrasion. Types SV and SJ Nos. 18 and 16 are rated at 300 v.; all other types listed are rated at 60 v. U.L. Approved.



SHPG. WTS., 100-FT. SPOOLS:

Type, Size	2 Cond.	3 Cond.	Type, Size	2 Cond.	3 Cond.
SV #18	4 lbs.	...	SJ #16	9 1/2 lbs.	11 3/4 lbs.
SV #18	5 1/4 lbs.	...	SJ #14	11 3/4 lbs.	19 lbs.
SJ #16	6 1/4 lbs.	...	SJ #12	21 lbs.	23 lbs.
S #18	8 1/2 lbs.	...	S #10	23 lbs.	29 lbs.

2-CONDUCTOR

Type, Size	25 ft. Coil		50 ft. Coil		100 ft. Coil		Over 100 ft.	
	Stock No.	NET	Stock No.	NET	Stock No.	NET	Stock No.	PER 100'
SV #18	48 T 480	1.20	48 T 488	2.25	48 T 496	4.47	48 W 439	4.47
SJ #18	48 T 481	1.50	48 T 489	2.55	48 T 497	4.90	48 W 451	4.90
SJ #16	48 T 482	1.80	48 T 490	3.30	48 T 498	6.30	48 W 452	6.30
S #18	48 T 483	2.48	48 T 491	4.43	48 T 499	8.37	48 W 453	8.37
S #16	48 T 484	3.00	48 T 492	5.40	48 T 495	10.31	48 W 454	10.31
S #14	48 T 485	3.90	48 T 493	7.33	48 T 496	13.95	48 W 465	13.95
S #12	48 T 486	6.23	48 T 494	12.00	48 T 497	23.04	48 W 466	23.04
S #10	48 T 487	7.50	48 T 495	14.25	48 T 498	27.27	48 W 467	27.27

3-CONDUCTOR

SJ #18	48 T 468	2.18	48 T 416	3.98	48 T 428	7.73	48 W 508	7.73
SJ #16	48 T 469	3.73	48 T 417	5.03	48 T 429	9.68	48 W 509	9.68
S #18	48 T 465	3.23	48 T 418	6.00	48 T 503	11.52	48 W 513	11.52
S #16	48 T 466	3.98	48 T 419	7.50	48 T 504	14.04	48 W 514	14.04
S #14	48 T 407	5.85	48 T 425	11.33	48 T 505	21.64	48 W 515	21.64
S #12	48 T 408	7.50	48 T 426	14.25	48 T 506	27.23	48 W 516	27.23
S #10	48 T 415	9.38	48 T 427	17.63	48 T 507	32.57	48 W 517	32.57

TELEPHONE WIRE

2-Conductor Interior. For interior use with telephones, intercoms, etc. No. 22 solid, tinned copper wire, 1/2" insulation and glazed cotton braid. Shpg. wt., 100 ft., 2 1/2 lbs.



48 W 810. PER FOOT. .4c. 100 ft. or More, PER 100 FT. 3.73

2-Conductor Exterior. No. 22 solid tinned copper wire. Each conductor has rubber insulation; overall black, weatherproof braid. Shpg. wt., 100 ft., 3 lbs.

48 W 826. PER FOOT. .4c. 100 ft. or More, PER 100 FT. 3.38

3-Conductor Exterior. As above, but 3-cond. Wt., 100', 4 lbs.

48 W 825. PER FOOT. 5 1/2c. 100 ft. or More, PER 100 FT. 5.08

TWISTED-PAIR ANTENNA LEAD-IN

High-quality, twisted-pair antenna lead-in wire. Designed especially for use with noise-reducing, doublet-type receiving antennas. Close impedance match assures efficient signal transfer. Consists of two flexible No. 18, stranded-wire conductors with tough, long-life rubber insulation, 1/2" thick. Weather-proof; does not crumble or dry out during prolonged usage. Shpg. wt., 100 ft., 3 lbs.



48 W 850. PER FOOT. .3c. 100 ft. or More, PER 100 FT. 2.56

NEW ROME FLEXALL CABLE

A non-metallic sheathed waterproof and rot resistant cable—designed specifically for burial in the earth. Has 2 No. 14 solid wire conductors insulated with Type TW thermoplastic. An all-glass yarn wrap covers both conductors and a synthetic plastic sheath covers the entire cable. Ideal for outside lighting and speaker systems. Excellent for electrical feeders and branch circuits from house to garage or barn as well as to post or yard lights. Eliminates overhead wiring. Capacity 15 amps. Rated at 600 volts. U.L. Approved. Size, .200x.350". Shpg. wt., 100 ft., 7 1/4 lbs.



47 W 594. PER FOOT. .9c. 100 ft. or More, PER 100 FT. 8.52

ROME ROFLX CABLE

2 conductor cable for indoor or outdoor use. Ideally suited for long speaker lines as well as for electrical feeders or branch circuits in power wiring. Excellent for making temporary or permanent extension power line installations: for motors, power tools, etc. Color-coded No. 14 solid wire conductors having durable, heat resistant, thermoplastic insulation with plastic sheath covering entire cable. Flexible and easy to use. Current capacity is 15 amp. Rated at 600 volts. U.L. Approved. Sizes, .230x.410". Shpg. wt., 100 ft., 7 lbs.



47 W 549. PER FOOT. .7c. 100 ft. or More, PER 100 FT. 6.47

THERMOPLASTIC HOOK-UP WIRE

U.L. Approved. Voltage breakdown test, 10,000 volts. Oil and acid resistant. Withstands temperatures up to 80° C. Suitable for high-voltage circuits where low loss and proper insulation is essential. Shpg. wt., per 25 ft. spool, 4 oz.



20 SOLID		25 FOOT SPOOL		20 STRANDED		25 FOOT SPOOL	
48 T 455. Black.	} 29c EACH	48 T 460. Black.	} 34c EACH	48 T 461. Red.	} 34c EACH	48 T 462. Blue.	} 34c EACH
48 T 456. Red.		48 T 463. Green.					
48 T 457. Blue.		48 T 464. Yellow.					
48 T 458. Green.							
48 T 459. Yellow.							

STRANDED HOOKUP WIRE

No. 18 tinned soft drawn copper wire. Cotton wrap and colored rubber insulation overall. Excellent for general wiring in radio-TV chassis, switchboards, etc. Shpg. wt., 25 ft., 5 oz.

Coil	Black	Red	Blue	Green	White	EACH
25 ft.	48 T 200	48 T 201	48 T 202	48 T 203	48 T 205	48c

PUSH-BACK HOOK-UP WIRE

Highest quality tinned push-back hook-up wire. No. 20. Only evenly-drawn pure copper wire is used. Insulation easily pushed back for convenient wiring. Available in both solid and stranded type. Unusually flexible and durable. Double-coated covered with paraffin-treated damp-proof braid, 5 different colors. Shpg. wts.: 25 ft., 4 oz.; 100 ft., 1 lb.



STRANDED TYPE, 10x30

Spool	Red	Black	Yellow	Blue	Green	EACH
25 ft.	48 T 442	48 T 440	48 T 444	48 T 441	48 T 443	.36
100 ft.	48 T 447	48 T 445	48 T 449	48 T 446	48 T 448	1.29

SOLID TYPE

Spool	Red	Black	Yellow	Blue	Green	EACH
25 ft.	48 T 472	48 T 470	48 T 474	48 T 471	48 T 473	.34
100 ft.	48 T 477	48 T 475	48 T 479	48 T 476	48 T 478	1.26

HIGH-GRADE MAGNET WIRE ON SPOOLS

Insulated, soft-drawn copper wire of highest quality. Specially manufactured for all types of coil winding applications—transformers, RF coils, chokes, etc. All sizes indicated below are standard B&S gauge. Shpg. wts.: 1/2-lb. spool, 14 oz.; 1-lb. spool, 1 1/2 lbs.



PLAIN ENAMELED 1/2 LB. SPOOLS

Stock No.	Size	Feet	NET	Stock No.	Size	Feet	NET
48 T 100	14	38	.60	48 T 111	26	640	.71
48 T 102	16	63	.60	48 T 112	28	1013	.75
48 T 104	18	101	.62	48 T 113	30	1602	.83
48 T 106	20	159	.62	48 T 114	32	2543	.84
48 T 108	22	253	.65	48 T 115	34	4042	.92
48 T 109	24	402	.65	48 T 116	36	6410	.92

SINGLE COTTON ENAMELED 1 LB. SPOOLS

48 T 020	14	78	1.44	48 T 028	22	490	1.91
48 T 022	16	124	1.50	48 T 029	24	772	1.95
48 T 024	17	156	1.56	48 T 030	25	936	2.07
48 T 026	18	198	1.62	48 T 031	26	1209	2.19
48 T 025	19	248	1.70	48 T 032	28	1876	2.63
48 T 026	20	312	1.79	48 T 033	30	2780	3.08

HEAVY FORMVAR MAGNET WIRE IN 1-POUND SPOOLS

Copper magnet wire covered with Formvar; tough, sturdy, abrasion-resisting film. Stable dielectric is maintained under the cumulative drying and aging effects of heat; does not fail after two hours at 105° C. Impervious to the deteriorating effects of petroleum solvents; resists acid and alkali. Takes up less winding space. Infinite resistance to moisture. Ideal for servicemen, experimenters, amateurs, etc. Replaces enamel, paper, cotton, silk, and double cotton and double silk wire. Shpg. wt. per spool, 1 1/2 lbs.

Stock No.	Size	Feet	NET	Stock No.	Size	Feet	NET
48 T 180	14	78	1.13	48 T 187	28	1099	1.59
48 T 137	15	99	1.13	48 T 144	29	2780	1.77
48 T 181	16	124	1.13	48 T 188	30	3200	1.79
48 T 138	17	156	1.14	48 T 145	31	4410	2.03
48 T 182	18	198	1.14	48 T 189	32	4900	2.04
48 T 139	19	246	1.19	48 T 146	33	6441	2.16
48 T 183	20	313	1.20	48 T 190	34	7950	2.19
48 T 140	21	397	1.26	48 T 147	35	9002	2.51
48 T 184	22	501	1.26	48 T 191	36	12,800	2.54
48 T 141	23	628	1.34	48 T 148	37	15,898	3.45
48 T 185	24	798	1.34	48 T 192	38	20,000	3.51
48 T 142	25	941	1.43	48 T 143	39	25,188	5.37
48 T 186	26	1200	1.46	48 T 193	40	31,700	5.47
48 T 143	27	1583	1.56				

TINNED SOLID COPPER WIRE

Fine quality, soft-drawn copper wire, tinned for easy soldering. Excellent for circuit wiring. Av. shpg. wt.: *3 lbs., †5 lbs.

*100-FT. COILS					
Stock No.	Gauge	NET	Stock No.	Gauge	NET
47 T 523	16	1.07	47 T 530	12	2.07
47 T 520	14	1.44	47 T 540	10	4.35

†1000-FT. SPOOLS					
47 T 525	24	2.55	47 T 533	20	6.00
47 T 527	22	3.98	47 T 535	18	9.00

Alpha Wire and Zipper Tubing

MIL-W-76A PLASTIC WIRE

TYPE MW—UNCOVERED PLASTIC WIRE

SOLID COLORS. General-purpose, thermoplastic-insulated hook-up wire. Stranded, tinned-copper conductor. Has high resistance to flame, fungi, moisture and solvents. Insulation rated at 1000 v. rms. Conforms to stringent government specifications. Has .016" insulation. Features include: high dielectric strength, superior stability at high temperatures and low moisture absorption. Available in the following colors: white, black, red, green, yellow, blue, brown, orange, gray and violet—specify color when ordering. Av. shpg. wt., 100', 1 1/4 lbs.; 1000', 7 lbs.

Mfr's Type	Type Designation	Size	Strand	O.D.	100-Ft. Spool		1000-Ft. Spool	
					Stock No.	NET	Stock No.	NET
1550	MW-C 24(7)U	24	7/32	.059"	49 TT 750	.82	49 TT 755	6.76
1551	MW-C 22(7)U	22	7/30	.064"	49 TT 751	.93	49 TT 756	7.79
1553	MW-C 20(10)U	20	10/30	.073"	49 TT 752	1.17	49 TT 757	10.14
1555	MW-C 18(16)U	18	16/30	.084"	49 TT 753	1.59	49 TT 758	14.34
1557	MW-C 16(26)U	16	26/30	.095"	49 TT 754	2.27	49 TT 759	21.02

TRACER COLORS. Hook-up wire as above, but offered in popular tracer colors. Specify choice of following colors when ordering: white/black, white/red, white/green, white/yellow, white/blue, white/brown, white/orange, white/gray, and white/violet.

Mfr's Type	Type Designation	Size	Strand	O.D.	Stock No.	NET	Stock No.	NET
1551	MW-C 22(7)U	22	7/30	.073"	49 TT 760	1.04	49 TT 763	8.90
1553	MW-C 20(10)U	20	10/30	.073"	49 TT 761	1.27	49 TT 764	11.25
1555	MW-C 18(16)U	18	16/30	.084"	49 TT 762	1.70	49 TT 765	15.44

TYPE MW—GLASS BRAID

Hook-up wire with tinned-copper stranded conductor—has thermoplastic insulation and overall glass braid. Meets military specifications. Insulation thickness, .016". Voltage rating, 1000 volts. Available in choice of ten solid colors: white, black, red, green, yellow, blue, brown, orange, gray and violet—specify color when ordering. Av. shpg. wt., 100-ft. spool, 1 1/4 lbs. Av. shpg. wt., 1000-ft. spool, 8 lbs.

Mfr's Type	Type Designation	Size	Strand	O.D.	100-Ft. Spool		1000-Ft. Spool	
					Stock No.	NET	Stock No.	NET
1550	MW-C 22(7)B	22	7/30	.080"	49 TT 766	1.71	49 TT 769	15.58
1591	MW-C 20(10)B	20	10/30	.090"	49 TT 767	2.05	49 TT 770	18.96
1592	MW-C 18(16)B	18	16/30	.100"	49 TT 768	2.55	49 TT 771	23.96

TYPE MW—NYLON JACKET

Tinned-copper, stranded hook-up wire with thermoplastic insulation and overall nylon jacket. Has .016" insulation thickness. Voltage rating, 1000 volts. Available in choice of ten solid colors: white, black, red, green, yellow, blue, brown, orange, gray, and violet—specify color when ordering. Av. shpg. wt., 100-ft. spool, 1 1/4 lbs. Av. shpg. wt., 1000-ft. spool, 7 lbs.

Mfr's Type	Type Designation	Size	Strand	O.D.	100-Ft. Spool		1000-Ft. Spool	
					Stock No.	NET	Stock No.	NET
1504	MW-C 22(7)J	22	8/30	.075"	49 TT 772	1.44	49 TT 775	12.20
1505	MW-C 20(10)J	20	10/30	.090"	49 TT 773	1.84	49 TT 776	16.10
1506	MW-C 18(16)J	18	16/30	.103"	49 TT 774	2.38	49 TT 777	21.61

TYPE MW—SHIELDED WIRE

Single-conductor, stranded, tinned-copper, hook-up wire—has .016" thermoplastic insulation and tinned-copper shield overall. Insulation rated at 1000 volts. Meets military specifications. Av. shpg. wt., 100-ft. spool, 1 1/4 lbs. Av. shpg. wt., 1000-ft. spool, 8 lbs.

Mfr's Type	Type Designation	Size	Strand	O.D.	100-Ft. Spool		1000-Ft. Spool	
					Stock No.	NET	Stock No.	NET
1351	MW-C 22(7)S	22	7/30	.085"	49 TT 778	3.02	49 TT 781	27.93
1352	MW-C 20(10)S	20	10/30	.095"	49 TT 779	3.71	49 TT 782	30.87
1353	MW-C 18(16)S	18	16/30	.105"	49 TT 780	4.05	49 TT 783	38.22

TYPE MW—SHIELDED NYLON

Hook-up wire with stranded tinned-copper conductor, white thermoplastic insulation, braided tinned-copper shield plus clear nylon jacket overall. Made to conform to stringent government specifications. Insulation is rated at 1000 volts. Wall thickness, .016". Nominal jacket thickness: Types 1371, 1372, and 1373—.007"; Type 1374—.008". Av. shpg. wt., 100-ft. spool, 1 1/4 lbs. Av. shpg. wt., 1000-ft. spool, 8 lbs.

Mfr's Type	Type Designation	Size	Strand	O.D.	100-Ft. Spool		1000-Ft. Spool	
					Stock No.	NET	Stock No.	NET
1371	MW-C 22(7)S1	22	7/30	.100"	49 TT 784	4.05	49 TT 788	36.75
1372	MW-C 20(10)S1	20	10/30	.110"	49 TT 785	4.19	49 TT 789	38.22
1373	MW-C 18(16)S1	18	16/30	.120"	49 TT 786	5.08	49 TT 790	47.04
1374	MW-C 16(26)S1	16	26/30	.135"	49 TT 787	5.81	49 TT 791	54.39

TYPE HW—UNCOVERED PLASTIC

Stranded, single-conductor, tinned-copper hook-up wire with heavy-wall thermoplastic insulation. Insulation is rated at 600 volts. Wall thickness, .043". Conforms to stringent military specifications. Available in choice of white, black, and red—specify color when ordering. Av. shpg. wt., 100-ft. spool, 1 1/4 lbs. Av. shpg. wt., 1000-ft. spool, 14 lbs.

Mfr's Type	Type Designation	Size	Strand	O.D.	100-Ft. Spool		1000-Ft. Spool	
					Stock No.	NET	Stock No.	NET
1579	HW-C 14(41)U	14	41/30	.170"	49 TT 792	5.37	49 TT 795	51.45
1579	HW-C 12(65)U	12	65/30	.190"	49 TT 793	7.28	49 TT 796	69.09
1653	HW-C 10(105)U	10	105/30	.215"	49 TT 794	11.10	49 TT 797	107.31

MIL-W-76A PLASTIC WIRE

TYPE LW—UNCOVERED PLASTIC

Stranded, tinned-copper wire with light-wall thermoplastic insulation. Has .010" insulation thickness: rated at 300 volts rms. Conforms to government specifications. Available in choice of 10 solid colors: white, black, red, green, yellow, blue, brown, orange, gray, and violet—specify color when order. In 100-ft. and 1000-ft. lengths on handy spools. Av. shpg. wt., 100-ft. spool, 1 lb. Av. shpg. wt., 1000-ft. spool, 6 lbs.

Mfr's Type	Type Designation	Size	Strand	O.D.	100-Ft. Spool		1000-Ft. Spool	
					Stock No.	NET	Stock No.	NET
1685	LW-C 30(7)U	30	7/38	.033"	49 TT 938	.85	49 TT 942	6.61
1686	LW-C 28(7)U	28	7/36	.035"	49 TT 939	.82	49 TT 943	6.40
1687	LW-C 26(7)U	26	7/34	.037"	49 TT 940	.79	49 TT 944	6.70
1688	LW-C 24(7)U	24	7/32	.044"	49 TT 941	1.00	49 TT 945	7.06

MIL-W-16878B PLASTIC WIRE

Hook-up wire for general use in miniature and subminiature circuitry. Stranded, tinned-copper single conductor. Vinyl thermoplastic insulation of uncovered types (1831, 1832, 1833, 1850, 1851, 1852, 1853, 1854, 1855 and 1856) withstands temperatures to 100°C.; all other types have nylon jacket over thermoplastic insulation and are for temperatures to 110°C. Type B has nominal insulation thickness of .010" and is rated at 600 v. rms; Type C has .016" insulation and is rated at 1000 v. rms. Insulation has high resistance to solvents. Conforms to rigid government specs.

MIL type designations are listed in column headed "MIL Type." Supplied in popular lengths on durable spools for most convenient storage and use. Available in 6 solid colors: white, black, red, green, yellow, and blue—specify color when ordering. Av. shpg. wt., 100-ft. spool, 1/2 lb. Av. shpg. wt., 1000-ft. spool, 4 1/4 lbs.

TYPE B—UNCOVERED PLASTIC (Specify Color)

Mfr's Type	MIL Type	Size	Strand	O.D.	100-Ft. Spool		1000-Ft. Spool	
					Stock No.	NET	Stock No.	NET
1850	B-32	32	7/40	.028"	49 TT 798	.99	49 TT 905	8.31
1851	B-30	30	7/38	.032"	49 TT 799	.82	49 TT 906	7.76
1852	B-28	28	7/36	.035"	49 TT 900	.81	49 TT 907	6.66
1853	B-26	26	7/34	.038"	49 TT 901	.85	49 TT 908	6.99
1854	B-24	24	7/32	.043"	49 TT 902	.88	49 TT 909	7.35
1855	B-22	22	7/30	.049"	49 TT 903	.99	49 TT 910	8.31
1856	B-20	20	10/30	.060"	49 TT 904	1.22	49 TT 911	10.73

TYPE B—NYLON (Specify Color)

Mfr's Type	Size	Strand	O.D.	Stock No.	NET	Stock No.	NET	
1860	B-32	32	7/40	.032"	49 TT 912	1.18	49 TT 919	10.29
1861	B-30	30	7/38	.036"	49 TT 913	1.06	49 TT 920	9.11
1862	B-28	28	7/36	.039"	49 TT 914	1.03	49 TT 921	8.82
1863	B-26	26	7/34	.042"	49 TT 915	1.08	49 TT 922	9.19
1864	B-24	24	7/32	.047"	49 TT 916	1.11	49 TT 923	9.55
1865	B-22	22	7/30	.053"	49 TT 917	1.25	49 TT 924	11.02
1866	B-20	20	10/30	.065"	49 TT 918	1.49	49 TT 925	13.38

TYPE C—UNCOVERED PLASTIC (Specify Color)

Mfr's Type	Size	Strand	O.D.	Stock No.	NET	Stock No.	NET	
1831	C-22	22	7/30	.064"	49 TT 926	1.05	49 TT 929	8.97
1832	C-20	20	10/30	.072"	49 TT 927	1.31	49 TT 930	11.54
1833	C-18	18	16/30	.082"	49 TT 928	1.68	49 TT 931	15.29

TYPE C—NYLON JACKET (Specify Color)

Mfr's Type	Size	Strand	O.D.	Stock No.	NET	Stock No.	NET	
1841	C-22	22	7/30	.072"	49 TT 932	1.38	49 TT 935	12.28
1842	C-20	20	10/30	.079"	49 TT 933	1.68	49 TT 936	15.22
1843	C-18	18	16/30	.090"	49 TT 934	2.08	49 TT 937	19.26

TYPE ZIP-31 ZIPPER TUBING



Unique plastic tubing featuring zipper construction for quick, efficient harnessing of wire at low cost. Simply place wire in tubing and zip shut—eliminates time-consuming lacing or taping operations. Extremely strong, flexible and durable. Can be easily opened at any time to permit examination, addition or replacement of wire. May be permanently sealed (see sealer listed below) to provide maximum moisture protection for enclosed conductors. Constructed of polyvinyl-chloride plastic to meet MIL-1-631C specifications. Wall thickness: .020" ± .001". Lateral pull strength when zipped, 42.7 pounds per inch; 59.8 pounds when sealed. Order tubing 1/4" larger than total O.D. of wires to be covered. One slider supplied with each 25' of tubing. Available in clear and black, 100-ft. lengths only.

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Black Stock No.	Clear Stock No.	Inside Dia.	Wt. Lbs.	100-Foot Coils		
				EACH	10-49, EACH	50-149, EACH
49 T 946	49 T 959	1/2"	4	31.00	29.00	28.00
49 T 947	49 T 960	3/8"	4	31.50	29.50	28.50
49 T 948	49 T 961	1/2"	5	32.00	30.00	29.00
49 T 949	49 T 962	7/8"	5	32.50	30.50	29.50
49 T 950	49 T 963	1"	6	33.00	31.00	30.00
49 T 951	49 T 964	1 1/8"	6	34.00	32.00	31.00
49 T 952	49 T 965	1 1/4"	6	34.50	32.50	31.50
49 T 953	49 T 966	1 1/2"	7	36.00	34.00	33.00
49 T 954	49 T 967	1 3/4"	8	37.00	35.00	34.00
49 T 955	49 T 968	2"	8	38.00	36.00	35.00
49 T 956	49 T 969	2 1/2"	11	40.50	38.50	37.50
49 T 957	49 T 970	3"	12	42.00	40.00	39.00
49 T 958	49 T 971	4"	16	48.00	46.00	45.00

AB-295 METAL SLIDER. Extra sliders for above. Wt., 1 oz.
49 T 972. NET.....5c

TYPE PB-200 SPECIAL SEALER

For permanent sealing of ZIP-31 plastic tubing. Easily applied by brush after tubing has been zipped shut. Also permits joining lengths of plastic tubing. 4 oz. will seal approximately 1000 ft. of tubing.

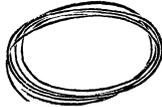
Stock No.	Size	Wt.	NET	Stock No.	Size	Wt.	NET
49 T 973	1 oz.	6 oz.	.35	49 T 976	1 qt.	3 lbs.	5.00
49 T 974	2 oz.	9 oz.	.60	49 T 977	1 gal.	10 lbs.	13.50
49 T 975	4 oz.	10 oz.	1.00				

Coaxial Cable, Hook-up Wire, Tubing

AMPHENOL COAXIAL CABLE AND HOOK-UP WIRE

TEFLON-INSULATED HOOK-UP WIRE

High-quality hook-up wire designed to withstand high temperature use—including military fast-rise applications. Teflon insulation is uniformly extruded over stranded, silver-plated wire. Tested for heat resistance after 96 hours aging at 250° C and given cold bend after 4 hours cooling at -65° C. Stranding: 18 ga., 19x30; 20 ga., 19x32; 22 ga., 19x34; 24 ga., 19x36. Shpg. wt., 100', 1/2 lb.



Color	Stranded 18 Gauge	Stranded 20 Gauge	Stranded 22 Gauge	Stranded 24 Gauge
Black	47 W 168	47 W 173	47 W 178	47 W 188
Brown			47 W 179	
Red	47 W 169	47 W 174	47 W 180	47 W 189
Orange			47 W 181	
Yellow	47 W 170	47 W 175	47 W 182	47 W 190
Green	47 W 171	47 W 176	47 W 183	47 W 191
Blue			47 W 184	
Violet			47 W 185	
Gray			47 W 186	
White	47 W 172	47 W 177	47 W 187	47 W 192
1-99 Ft., PER FT.	.127	.106	.086	.082
100-499 Ft., PER FT.	.115	.095	.077	.074
500-999 Ft., PER FT.	.102	.084	.069	.067

"SUB-MINAX" MINIATURIZED COAXIAL CABLE

Identical in construction features to full-size coaxial cable. Both types have polyethylene dielectric, vinyl jacket, braided copper shield, and stranded copperweld inner conductor. (21-598 has 7x .0063" and 21-597 has 7x .0056"). Shpg. wt., 100', 1/2 lbs.

Stock No.	Mfr's Type	Imp. Ohms	Mmf Per Ft.	O.D.	1-99 Ft., PER FT.	100-999 Ft., PER FT.
49W 473	21-598	50	30	.105"	.051	.047
49W 472	21-597	75	20	.150"	.057	.052

MISCELLANEOUS CABLE

Type 21-146 is microphone cable with polyethylene dielectric and flexible vinyl jacket. Types 621-100 and 621-715 are similar to RG11/U and RG59/U respectively, but have polyfoam dielectric.

Stock No.	Mfr's Type	Imp. Ohms	Mmf Per Ft.	O.D.	Lbs. 100'	1-99 Ft., PER FT.	100-999 Ft., PER FT.
49 W 313	21-146	45	35	.155"	2	.048	.044
49 W 337	621-100	75	16.5	.405"	8	.141	.129
49 W 339	621-715	73	17	.195"	2	.049	.044

CONSOLIDATED SHIELDED CABLE FOR SOUND SYSTEMS

Type 14-2. Flexible, 2-conductor P.A. cable. No. 14 wire (stranded 41x30) with 1/2" plastic insulation, tinned-copper braided shield, and weatherproof cotton outer jacket. Shpg. wt., per 100 ft., 4 lbs.

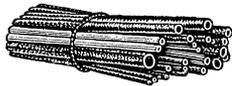


49W 614. 1-99 Ft., PER FOOT.....13½c
100 Ft. or More, PER FOOT.....12c

VARNISHED SPAGHETTI TUBING

ASSORTED 8" LENGTHS

Highly popular with experimenters and builders. 26 pieces of cambric spaghetti tubing in various colors and diameters. 3 oz.



49 T 220. NET.....20c

SELECTION OF 36" LENGTHS

Used in industrial and electronic research laboratories, radio-TV shops, experimental laboratories, etc. Five lengths to a package. Standard grade varnished tubing, 4,000 volt av. dielectric strength. Meets V.T.S. and A.S.T.M. specifications. Shpg. wt., 2 oz.

For Wire Size	Stock No.				Per Pkg.	5 or More Pkgs., Per Pkg.
	Black	Yellow	Red	Green		
20	49 T 164	49 T 165	49 T 166	49 T 167	53c	48c
18	49 T 169	49 T 170	49 T 171	49 T 172	57c	52c
16	49 T 174	49 T 175	49 T 176	49 T 177	58c	53c
14	49 T 179	49 T 180	49 T 181	49 T 182	64c	58c
12	49 T 184	49 T 185	49 T 186	49 T 187	68c	62c
10	49 T 189	49 T 190	49 T 191	49 T 192	75c	68c

NEW SPIRAL SPIRAL-CUT PLASTIC WRAPPING

Flexible, highly durable polyethylene plastic wrapping. Provides neat appearance and protection for wire harnesses from 1/4" to 2" in diameter. Spiral-cut design permits instant location of individual wires. Easy to wind or unwind. Shpg. wt., 100 ft., 1 1/4 lbs.



71W 543. 1-99 Ft., PER FOOT.....8c
100 Ft. and Up, PER FOOT.....7c

RG COAXIAL CABLE

Low-loss coaxial cable for RF applications. All meet rigid military and commercial specifications. Impervious to the effects of weather, acids, alkalis, oil and gasoline.



POLYETHYLENE DIELECTRIC-VINYL JACKET

Stock No.	RG No.	Imp. Ohms	Mmf Per Ft.	O.D.	Lbs. 100'	1-99 Ft., PER FT.	100-499 Ft., PER FT.	500-999 Ft., PER FT.
49 W 303	5/U	52.5	28.5	.332"	9	.143	.131	.118
49 W 304	7/U	97	12.5	.370"	8½	.134	.123	.111
49 W 460	8/U	52	29.5	.405"	12	.132	.121	.....
49 W 315	8A/U	52	29.5	.405"	12	.126	.115	.....
49 W 469	9/U	52	30	.420"	12½	.134	.126	.258
49 W 314	9A/U	51	30	.420"	12½	.383	.351	.316
49 W 322	9B/U	51	30	.420"	12½	.407	.372	.335
49 W 470	11/U	75	20.5	.405"	12	.126	.116	.....
49 W 317	11A/U	75	20.5	.405"	12	.144	.131	.....
49 W 305	11/U	52	29.5	.545"	21	.330	.302	.272
49 W 306	17/U	52	29.5	.870"	47	.624	.571	.514
49 W 318	17A/U	52	29.5	.870"	47	.651	.596	.537
49 W 307	19/U	52	29.5	1.120"	75	1.094	1.002	.902
49 W 308	21/U	53	29	.332"	8½	.295	.261	.235
49 W 465	22/U	95	16	.405"	12	.170	.155	.140
49 W 309	29/U	53.5	28.5	.184"	3	.065	.059	.053
49 W 480	58A/U	58	28.5	.240"	4	.064	.054	.048
49 W 311	58/U	53.5	28.5	.206"	3½	.101	.092	.....
49 W 485	58/U	53.5	28.5	.195"	3	.056	.051	.....
49 W 487	58A/U	50	28.5	.195"	3	.057	.052	.....
49 W 319	58C/U	50	28.5	.195"	3	.065	.059	.....
49 W 490	59/U	73	21	.242"	4½	.060	.055	.....
49 W 316	59A/U	73	21	.242"	4½	.071	.065	.....
49 W 488	62/U	93	13.5	.242"	4½	.065	.060	.....
49 W 321	62A/U	93	13.5	.242"	4½	.072	.066	.....
49 W 312	63/U	125	10	.405"	12	.139	.127	.....
49 W 489	71/U	93	13.5	.250"	4½	.109	.099	.....
49 W 325	71A/U	93	14.5	.245"	4½	.118	.108	.097
49 W 326	114/U	185	6	.405"	12	.152	.138	.....
49 W 324	112/U	50	29.3	.160"	2½	.062	.057	.051

TEFLON DIELECTRIC-FIBERGLASS SILICONE-IMPREGNATED JACKET

Stock No.	RG No.	Imp. Ohms	Mmf Per Ft.	O.D.	Lbs. 100'	1-99 Ft., PER FT.	100-249 Ft., PER FT.
49 W 326	87A/U	50	29.5	.425"	17	2.62	2.35
49 W 331	119/U	50	29	.470"	24	4.34	3.51
49 W 327	140/U	73	21	.242"	6	1.96	1.76
49 W 328	141/U	50	29	.195"	4	1.62	1.45
49 W 329	142/U	50	29	.206"	5½	1.73	1.56
49 W 333	187/U	75	19.3	.110"	1½	.47	.42
49 W 332	188/U	50	29	.110"	1½	.42	.38
49 W 335	195/U	95	15.2	.155"	2½	.72	.64
49 W 334	196/U	50	29	.080"	1	.37	.33

ALPHLEX PVC-105 PLASTIC TUBING

A wide selection of extruded plastic tubing for protection of wire and cable from effects of heat, oil, corrosion, fungi, etc. Resists temperatures from -30° C to 105° C. Conforms to military specifications MIL-631C, ASTM-D876, and ASTM-D922. Features high dielectric strength. Rated at 800 volts; resistance, over 1 million meg. Tensile strength, 2500 PSI.



Sizes 24 and 22, .012" wall thickness; all others, .016". Available in nine popular colors: clear, black, red, yellow, green, blue, brown, white, and orange—specify color. Av. shpg. wt., 100-ft., 5 oz.

Size	Nom. I.D.	25 Ft. Coil		100 Ft. Coil			
		Stock No.	NET EACH	Stock No.	1-9, EACH	10-49, EACH	50-Up, EACH
24	.022"	71 TT 300	.51	71 TT 307	1.40	1.15	.96
22	.027"	71 TT 301	.51	71 TT 308	1.40	1.15	.96
20	.034"	71 TT 302	.53	71 TT 309	1.44	1.18	.98
18	.042"	71 TT 303	.54	71 TT 310	1.50	1.21	1.01
16	.053"	71 TT 304	.57	71 TT 311	1.61	1.28	1.07
14	.066"	71 TT 305	.59	71 TT 312	1.73	1.35	1.13
12	.085"	71 TT 306	.63	71 TT 313	1.86	1.46	1.22

Tubing as above. Size 10, .016" wall thickness; all other sizes, .020". Available in choice of six popular colors: clear, black, red, yellow, green, and blue—specify color. Av. shpg. wt., 100-ft., 10 oz.

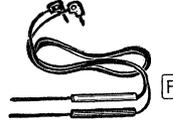
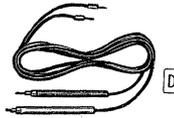
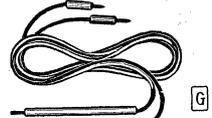
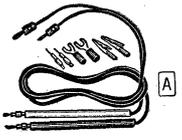
Size	Nom. I.D.	Stock No.	NET EACH	Stock No.	1-9, EACH	10-49, EACH	50-Up, EACH
10	.106"	71 TT 314	.68	71 TT 319	2.01	1.62	1.36
8	.133"	71 TT 316	.95	71 TT 321	2.98	2.22	1.77
6	.168"	71 TT 317	1.08	71 TT 322	3.20	2.52	2.07
4	.208"	71 TT 317	1.08	71 TT 322	3.85	2.89	2.43
2	.263"	71 TT 318	1.26	71 TT 323	4.43	3.41	2.89

Wall thicknesses, size 0, .020"; *025"; †.030"; §.035"; †.040"; 1/2", .045". Choice of clear or black—specify. Av. wt., 100', 5 lbs.

Size	Nom. I.D.	Stock No.	NET EACH	Stock No.	1-9, EACH	10-49, EACH	50-Up, EACH
0	.330"	71 TT 324	1.46	71 TT 335	5.18	4.03	3.44
5/16"	.312"	71 TT 325	1.71	71 TT 336	6.25	4.83	4.11
3/8"	.375"	71 TT 326	2.07	71 TT 337	7.30	5.62	4.86
1/2"	.500"	71 TT 327	2.63	71 TT 338	9.12	7.08	6.08
5/8"	.625"	71 TT 328	3.60	71 TT 339	13.26	10.29	8.70
3/4"	.750"	71 TT 329	4.73	71 TT 340	18.37	14.11	11.89
7/8"	.875"	71 TT 330	5.33	71 TT 341	20.64	16.12	13.55
1"	1.000"	71 TT 331	6.15	71 TT 342	23.07	18.00	15.04
1 1/8"	1.250"	71 TT 332	8.33	71 TT 343	31.98	25.07	21.14
1 1/4"	1.375"	71 TT 333	8.85	71 TT 344	34.18	26.57	22.42
1 1/2"	1.500"	71 TT 334	10.80	71 TT 345	41.45	32.26	27.53

Test Leads, Prods and Patch Cords

GENERAL CEMENT TEST LEADS



Test Leads
For Every
Use

A Type 8463. With Interchangeable Connectors. 50' leads have 6' unbreakable plastic prods, one red, one black; with pointed phone tips. Instrument ends come with banana plugs. Supplied with spade lugs, pointed phone tips, and alligator clips, all of which are interchangeable with the banana plugs. 6000-volt insulation. Shpg. wt., 4 oz.
42 N 350. NET PER PAIR.....1.76

D Type 9190. Slender Pencil. 5" long test prods made of durable Tenite with 50' kinkless leads. Have pointed phone tips on prod end; plain phone tips on connector end. Shpg. wt., 4 oz.
42 N 356. NET PER PAIR.....73c

F Type 8465. Long Needle. Same as Type 8462 but prod tips are 4" lengths of stiff, pointed No. 16 wire. Also prod handles are 4" long. Excellent for those hard-to-reach places. 50' leads—6000-volt breakdown, insulation. Shpg. wt., 4 oz.
42 N 361. NET PER PAIR.....1.23

Type 8464. With Interchangeable Connectors. Same as above except prod ends are equipped with needle point chucks and needle point tips for piercing insulation.
42 N 351. NET PER PAIR.....1.76

E Type 8459. 6000v Insulation. 6' durable Tenite prods with pointed phone tips. Angle phone tips on connector ends. 50' leads. Shpg. wt., 4 oz.
42 N 358. NET PER PAIR.....1.23

KLIPZON TEST PRODS AND LEADS
G Prods equipped with clip-tip which holds on to wire, lug, etc.; leaving both hands free. 4 3/4" handles. 4' leads. Av. wt., 4 oz.

B Type 9102. HV Test Leads. 48" long, flexible, heavy-duty, rubber-covered leads, 1/4" thick. One red, one black. Pointed phone tip prods; alligator clip ends. Special finger-guard prod handles. 5" long. 22,000-volt breakdown at 60 cycles. Shpg. wt., 4 oz.
42 N 352. NET PER PAIR.....3.52

Type 5050. Same as Type 8459 above but equipped with all-metal connector ends with pointed phone tips instead of the angle phone tips. Shpg. wt., 4 oz.
42 N 357. NET PER PAIR.....1.09

Stock No.	Type	Description	PR.
42 N 362	5608	Klipzon tips both ends	1.91
42 N 363	5609	Klipzon tips and plain phone tip connectors	1.47
42 N 364	5610	Klipzon phone tip prods; banana plug connectors.	1.91

C Type 9301. Stretch Leads. No-kink-no-tangle test leads. 9' coil extends to 6 feet. 6' Tenite prod handles. Pointed phone tips both ends. Shpg. wt., 4 oz.
42 N 355. NET PER PAIR.....2.91

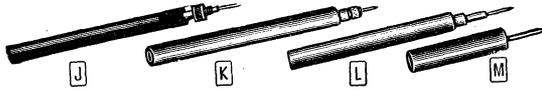
Type 8461. Needle-tipped, Insulation Piercing. Same as Type 5050 but prods have needle type chuck and needle points for piercing insulation. Shpg. wt., 4 oz.
42 N 359. NET PER PAIR.....1.15

KLIPZON JUMPER LEADS
H 2 wire leads with Klipzon phone-tip mini-prods at each end. Average shpg. wt., 4 oz.

Type 8462. Same as Type 8459 above but equipped with angle phone tips on connector ends instead of the pointed phone tips. Shpg. wt., 4 oz.
42 N 360. NET PER PAIR.....1.32

Stock No.	Type	Color	Length	PER PAIR
42 N 369	5634	Red	12"	.59
42 N 370	5635	Black	12"	.59
42 N 371	5636	Red	24"	1.09
42 N 372	5637	Black	24"	1.09

H. H. SMITH TEST PRODS



J Type 302. Solderless Test Prod. Threaded prod with 5 1/2" long plastic handle, 3/8" diameter. Nickel plated phone tip. Wire fits through handle, wraps around screw portion. Shpg. wt., 4 oz.
42 N 110, Red. 42 N 111, Black. NET EACH PROD.....50c

K Type 318. Phono Needle Test Prod. Brass nickel-plated body with steel, nickel-plated, phono-type needle. Removable chuck for replacing broken needles. Red or black molded plastic handle. Overall length 6 1/2". Shpg. wt., 3 oz.
42 N 373, Red. 42 N 374, Black. NET EACH PROD.....55c

L Type 329. Heavy-duty Test Prod. Threaded type. Extra sturdy brass, nickel-plated tip with red or black molded plastic handle. Overall length, 6 1/4". Shpg. wt., 3 oz.
42 N 375, Red. 42 N 376, Black. NET EACH PROD.....55c

G-C KLIPZON MINIPRODS

M Self-Gripping Tips. No. 5621. Clip to any terminal, lug, etc., and stay there! Needle points for piercing insulation. Solderless connection inside 1 1/4" plastic handle. Shpg. wt., 2 oz.
42 N 271, Red. 42 N 272, Black. NET EACH TIP.....32c

M Mini-prod Adapter Tips. No. 5623. Fit over standard test points or phono-needle types. Convert them to self-gripping types with special insert supplied. Shpg. wt., 2 oz.
50 N 159, Red. 50 N 160, Black. NET EACH TIP.....35c

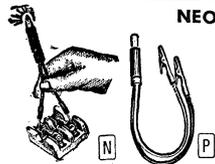
G-C SOLDERLESS TEST PRODS



Type 7830. Molded-plastic, angle phone tip prods. Feature solderless "Trigger-Quik" clamps for sure connections. 1—red and 1—black. Shpg. wt., 7 oz.
42 N 405. NET PER PAIR.....70c

NEON GLOW TESTERS

GENERAL CEMENT NEO-O-LITE



N Highly versatile neon glow type tester. Indicates voltages from 60 v. AC and 90 v. DC to 500 v. AC-DC. Excellent for finding "hot" AC leads, checking fuses and spark plugs, appliance repair, etc. Neon bulb is mounted in insulating holder. 5" insulated leads with phone tip ends. Ideal for home handymen. Shpg. wt., 3 oz.
78 N 055. NET EACH.....44c

10 or More, EACH.....39c

SITTLER LOW VOLTAGE TESTER

P Type T202. Extremely useful low voltage tester. Indicates voltages from 5 v. to 50 v. AC/DC. Perfect for testing low voltage circuits in automobiles, telephones, batteries, radio and TV filament circuits, etc. Uses incandescent lamp. Has red and yellow leads with alligator clips for easy identification and use. Wt., 3 oz.
42 N 406. NET EACH.....99c

Type T203. Similar to above but tests 2 1/2 to 24 v. AC/DC.
42 N 407. NET EACH.....99c

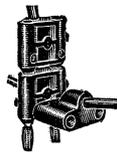
H. H. SMITH UNIVERSAL TEST LEAD KIT



Type 699. New, highly versatile test lead kit. Includes a pair of test leads and 12 interchangeable testing tips and connectors. Plastic handles at each end of test leads have threaded receptacles carefully cut to fit screw-in tips and connectors, assuring firm mechanical and electrical contact. Requires only a twist of the fingers to convert test leads to any two of 50 different types. Equips the test bench to meet almost any testing need. Has four phone tips, two alligator clips, two needle tips, two banana plugs, and two spade lugs. An exceptionally useful kit for the radio and TV serviceman, radio amateur, or experimenter. Comes attractively packaged in transparent plastic wallet-style kit. Shpg. wt., 5 oz.
42 N 408. List, \$4.00. NET.....2.11

PECO "STACK-UP" PATCH CORDS

- Permit parallel multiple stacking
- Designed for rapid circuit connections
- Fit terminals of test equipment



For instrumentation patching. Have banana plugs with built-in jacks to permit right-angle or lengthwise stacking. Plug bodies are molded polyethylene for full insulation. Double plugs have 3/4" spacing. Ground connection is clearly marked on one side. Types with single banana plugs have single-conductor, polyvinyl-insulated cord. Withstands pull test exceeding 50 lbs. Solder bonding of each terminal assures noise-free connections. Contact resistance less than 0.001 ohm per plug in standard jack. One-piece beryllium copper spring provides dependable contact and long life. Single plug types come in 7 different colors for easy lead identification. Double plug types are all gray except type 2BC-BNC-36 which is black.

*Shielded mike cable with single inner conductor polyethylene insulation, vinyl jacket, 118-gauge, vinyl insulated twisted pair. 3R58-C/U coaxial cable with BNC connector on one end. Av. shpg. wt., 5 oz.

WITH DOUBLE PLUGS

Stock No.	Mfr's Type	Length	NET EACH
42 N 203	2BA-24t	24"	3.67
42 N 204	2BA-36t	36"	3.67
42 N 205	2BB-36*	36"	3.67
42 N 206	2BC-BNC-36§	36"	4.75

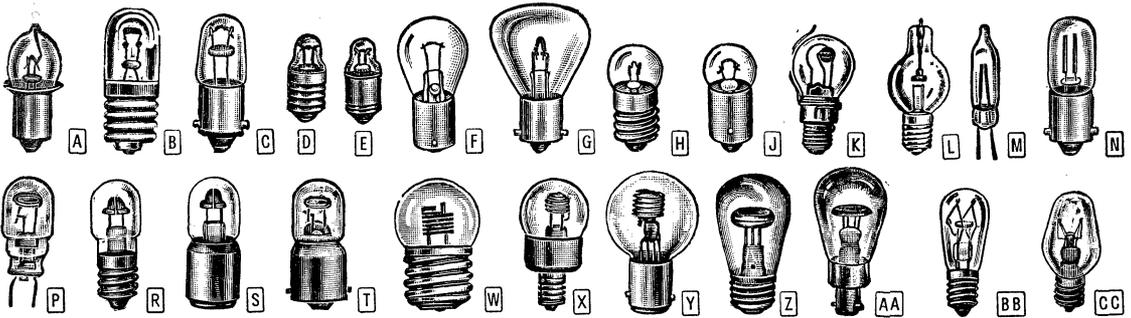
WITH SINGLE PLUGS

Stock No.	Mfr's Type	Length	NET EACH
42 N 207	B-18	18"	1.47
42 N 208	B-24	24"	1.47
42 N 209	B-36	36"	1.47

WITH DOUBLE PLUG AND TWO ALLIGATOR CLIPS

Stock No.	Mfr's Type	Length	NET EACH
42 N 236	2BA-AL-24t	24"	3.67
42 N 237	2BA-AL-36t	36"	
42 N 238	2BB-AL-24*	24"	
42 N 239	2BB-AL-36*	36"	

General Electric Lamps—Sockets



[MINIATURE, NEON, AND ARGON LAMPS

GENERAL-PURPOSE MINIATURE LAMPS

All are miniature, except: *Midget flanged type; †pre-focused candela type; ‡has screw terminals, sealed beam type. Under **Amps**, c.p. means candlepower. Abbreviations under **Base** mean: S, C, F—single contact, flanged; S, C, Bay—single contact, bayonet; D, C, Bay—double contact, bayonet. Under **Bulb Style**: G—globe; T—tubular; B—lens-shape; TL—Lens end, tubular (pre-focus type); FE—flat end; RP—reflector, pear shape; S—as in Fig. F; PAR—parabolic. Shpg. wts.: 1 lamp, 2 oz.; box of 10, 4 oz.

Stock No.	Mfr's Type	Fig.	Volts	Amps	Base	Bulb Style	NET EA.	10 or More, EA.	100 or More, EA.
52 E 344	PR-2	A	2.4	0.50	S.C. F.	B-3½	20	14	13
52 E 345	PR-3	A	3.6	0.50	S.C. F.	B-3½	20	14	13
52 E 337	PR-4	A	2.3	0.27	S.C. F.	B-3½	20	14	13
52 E 338	PR-9	A	2.7	0.15	S.C. F.	B-3½	25	18	16
52 E 337	PR-12	A	5.95	0.50	S.C. F.	B-3½	20	14	13
52 E 304	PR-13	A	4.75	0.50	S.C. F.	B-3½	20	14	13
52 E 300	13	H	3.7	0.30	Screw	G-3½	17	12	11
52 E 301	14	H	2.5	0.30	Screw	G-3½	17	12	11
52 E 302	27	H	4.9	0.30	Screw	G-4½	17	12	11
52 E 302	31	H	6.2	0.30	Screw	G-4½	20	14	13
52 E 305	40	B	6-8	0.15	Screw	T-3¾	15	10	09
52 E 306	41	B	2.5	0.50	Screw	T-3¾	15	10	09
52 E 307	42	B	3.2	0.35	Screw	T-3¾	20	14	13
52 E 308	43	C	2.5	0.50	Bayonet	T-3¾	15	10	09
52 E 309	44	C	6-8	0.25	Bayonet	T-3¾	15	10	09
52 E 310	45	C	3.2	0.35	Bayonet	T-3¾	15	10	09
52 E 311	46	B	6-8	0.25	Screw	T-3¾	15	10	09
52 E 312	47	C	6-8	0.15	Bayonet	T-3¾	15	10	09
52 E 313	48	C	2.0	0.06	Screw	T-3¾	15	10	09
52 E 314	49	C	2.0	0.06	Bayonet	T-3¾	15	10	09
52 E 315	50	H	6-8	1 c. p.	Screw	G-3½	15	10	09
52 E 316	51	J	14.4	0.22	Screw	G-3½	15	10	09
52 E 317	53	J	14.4	0.22	Bayonet	G-3½	15	10	09
52 E 320	55	J	6-8	2 c. p.	Bayonet	G-4½	15	10	09
52 E 320	57	J	12-16	2 c. p.	Bayonet	G-4½	15	10	09
52 E 322	63	J	6-8	3 c. p.	S.C. Bay.	G-6	20	14	13
52 E 321	81	J	6-8	6 c. p.	S.C. Bay.	G-6	20	14	13
52 E 317	82	J	6-8	6 c. p.	D.C. Bay.	G-6	25	18	16
52 E 325	112	D	1.2	0.22	Screw	TL-3	17	12	11
52 E 327	136	H	1.3	0.60	Screw	G-4½	17	12	11
52 E 330	222	D	2.2	0.25	Screw	TL-3	17	12	11
52 E 331	223	D	2.2	0.25	Screw	FE-3¾	17	12	11
52 E 332	224	E	2.4	0.22	Special	TL-2¾	17	12	11
52 E 333	233	H	2.2	0.27	Screw	G-3½	17	12	11
52 E 339	248	H	2.5	0.80	Screw	G-5¾	20	14	13
52 E 319	313	C	28	0.17	Bayonet	T-3¾	35	26	23
52 E 323	327	..	28	0.24	S. C. Mid.*	T-1¾	90	66	59
52 E 377	328	..	6	0.02	S. C. Mid.*	T-1¾	70	51	46
52 E 378	425	A	5	0.50	Screw	G-4½	17	12	11
52 E 658	428	H	12.5	0.25	Screw	G-4½	17	12	11
52 E 332	432	H	18.0	0.25	Screw	G-4½	17	12	11
52 E 652	433	H	18	0.25	Bayonet	G-4½	17	12	11
52 E 342	605	H	6.1	0.50	Screw	G-4½	17	12	11
52 E 646	1129	G	6-8	0.2 c. p.	S.C. Bay.	S-8	35	26	23
52 E 650	1133	G	6-8	32 c. p.	S.C. Bay.	RP-11	40	29	26
52 E 651	1188	G	6-8	50/32 c. p.	D.C. Bay.	RP-11	1.00	.72	.65
52 E 379	1323	..	6.2	4.30	S.C. Pref.†	RP-11	1.00	.72	.65
52 E 659	1446	H	12	0.20	Screw	G-3½	17	12	11
52 E 341	1447	H	18.0	0.15	Screw	G-3½	20	14	13
52 E 661	1449	H	14	0.20	Screw	G-3½	17	12	11
52 E 662	1458	J	20	0.25	Bayonet	G-5	17	12	11
52 E 653	1477	B	24	0.17	Screw	T-3	40	27	24
52 E 654	1487	B	12-16	0.20	Screw	T-3¾	20	14	13
52 E 655	1488	C	14	0.15	Bayonet	T-3¾	20	14	13
52 E 656	1490	C	3.2	0.16	Bayonet	T-3¾	15	10	09
52 E 656	1493	F	6.5	2.75	D.C. Bay.	S-8	1.00	.70	.63
52 E 657	1768	F	6	0.20	Midget Screw	T-3¾	75	52	47
52 E 657	1815	C	12-16	0.20	Bayonet	T-3¾	20	14	13
52 E 324	1820	C	28	1.0	Bayonet	T-3¾	40	29	26
52 E 343	1829	C	28.0	0.07	Bayonet	T-3¾	35	25	22
52 E 384	4546	..	4.7	0.50	S.C. Term‡	PAR-36	2.50	1.77	1.59

TUNGAR BULBS

Tungar bulb rectifiers for replacement purposes. High-quality units. Used in battery-charging equipment. Gas-filled thermionic-emission types. *Provides DC for movie projector arcs. Av. shpg. wt., 1¼ lbs.

No.	Type	Fig.	Amps	NET	No.	Type	Fig.	Amps	NET
9 E 900	12X825		2	4.41	9 E 904	189049	L	6	4.77
9 E 901	206501	K	2	4.41	9 E 905	*217283	L	15	9.19
9 E 906	20X872	L	6	4.77	9 E 906	16X887	..	2	12.13
9 E 903	189048	L	6	4.77	9 E 908	45X674	..	6	14.70

NEON GLOW LAMPS

For 105-600 volt operation except types marked † which are for 210-600 v. ‡ indicates DC only. S.C. stands for single contact; D.C., double contact; Sk., skirted. Screw types have series resistor in base—for 105-125 v. operation; others require external resistor. AC starting voltage shown. DC starting voltage is 40% higher. †Red sprayed. Av. shpg. wt., 1 lamp, 3 oz.; box of 10, 5 oz.

Stock No.	Mfr's Type	Fig.	Watts	AC Volts	Bulb Style	Base	NET EACH	10-UP EACH
52 E 370	NE-2	M	1/25	65	T-2	Wire Term.	.10	.08
52 E 396	NE-2H	M	¼	55	T-2	Wire Term.	.12	.10
52 E 374	NE-7	P	¼	55	T-4½	Wire Term.	.73	.56
52 E 826	NE-16	S	¼	\$67	T-4½	D.C. Bay. Cand.	.63	.48
52 E 827	NE-17	S	¼	55	T-4½	D.C. Bay. Cand.	.90	.71
52 E 822	NE-21	T	¼	55	T-4½	S.C. Bay. Cand.	.95	.71
52 E 801	NE-30	W	1	60	G-10	Edison	1.20	.93
52 E 809	NE-31	X	1	60	G-10	Sk. Cand. Screw	2.98	2.62
52 E 814	NE-32	Y	1	60	G-10	D.C. Bay. Cand.	1.20	.93
52 E 803	NE-33	Z	2	60	S-14	Edison	1.85	1.43
52 E 805	NE-34	Z	2	60	S-14	Edison	.97	1.53
52 E 815	NE-36	AA	2	60	S-16	Sk. D.C. Bay. Cand.	2.40	2.09
52 E 806	NE-40	Z	3	60	S-14	Edison	2.70	2.10
52 E 816	NE-42	AA	3	60	S-14	Sk. D.C. Bay. Cand.	2.65	2.04
52 E 807	NE-45	R	¼	65	T-4½	Cand. Screw	.85	.66
52 E 812	NE-48	S	¼	65	T-4½	D.C. Bay. Cand.	.70	.54
52 E 373	NE-51	N	1/25	65	T-3¾	S.C. Bay. Min.	.21	.17
52 E 395	NE-51H	N	¼	55	T-3¾	S.C. Bay. Min.	.23	.19
52 E 360	NE-56	W	1	60	G-10	Edison	1.25	.98
52 E 361	NE-57	R	¼	55	T-4½	Cand. Screw	.99	.76
52 E 362	NE-58	R	½	65	T-4½	Cand. Screw	.95	.71

ARGON GLOW LAMPS

Pale blue-violet light—near-ultraviolet radiation. Clear glass. *Av. life, 1000 hours; fav. life, 3000 hrs. Av. wt., 1 lamp, 3 oz.; box of 10, 5 oz.

Stock No.	Type	Fig.	Watts	AC Volts	Base	NET EACH	10-UP EACH	
52 E 811	*AR-3	R	¼	80	T-4½	Cand. Screw	.85	.68
52 E 820	†AR-2	AA	2	65	S-14	Sk. D.C. Bay. Cand.	2.20	1.78
52 E 810	†AR-1	Z	2	65	S-14	Edison	1.90	1.53

AC-DC PILOT LAMPS

Rated at 1500 hours, average use. Have clear glass envelopes except † white glass. Ideal for use behind small panel openings, as indicator lamps, etc. *Candela screw base. †Double contact candela bayonet base. ‡Herzog tubular lamp—all others, G.E. Av. wt., 4 oz.

Stock No.	Type	Fig.	Volts	Watts	EACH	10-UP, EA.
52 E 349	*S6	BB	120	6	.22	.20
52 E 352	†S6	BB	120	6	.35	.37
52 E 354	*S6	BB	120	3	.35	.31
52 E 353	*10S6	BB	230	10	.52	.47
52 E 355	*C7	CC	115-125	7	.20	.18
52 E 356	*C7	CC	115-125	10	.20	.18
52 E 351	†C7	CC	115-125	7	.26	.23
52 E 350	†*	CC	120	4	.39	.35

SOCKETS FOR NEON, ARGON AND PILOT LAMPS



*Hard rubber insert in metal shell. Av. shpg. wt., 3 oz.

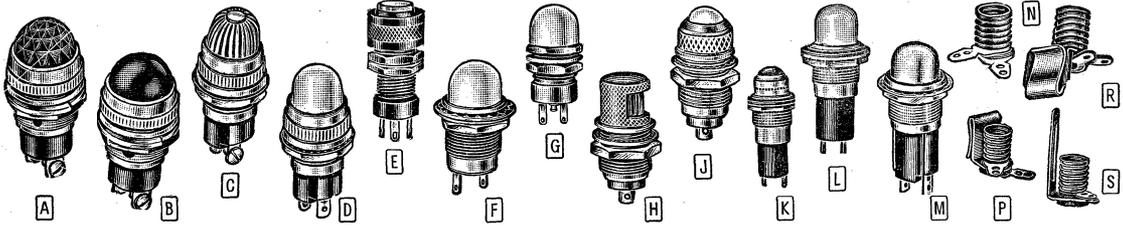
Stock No.	Fig.	Description	EACH	10-UP, EA.
52 E 850	DD	Edison	.13	.12
52 E 858	DD	Miniature screw	.14	.13
52 E 852	EE	Candela screw	.45	.41
52 E 855	DD	Candela screw	.14	.13
52 E 853*	FF	Double-contact, bay. candela	.29	.26
52 E 856	GG	Double-contact, bay. candela	.75	.67
52 E 857	GG	Single-contact, bay. candela	.59	.53

LAMP SOCKET REDUCERS

Receptacle opening receives base of bulb; other end fits into socket desired. Enables user to convert to most commonly used types of bulb bases. Positive contact. Av. shpg. wt., 2 oz.

Stock No.	Fig.	Description	NET
52 E 606	HH	Edison-to-Candela	16¢
52 E 639	JJ	Candela-to-Miniature	14¢
52 E 638	KK	Intermediate-to-Candela	7¢
52 E 638	KK	Edison-to-Intermediate	15¢

Dialco Pilot Light Assemblies



OIL-TIGHT SERIES

Heavy-duty pilot light assemblies. Feature totally enclosed construction. Chrome finish. Glass lens gives 180° light spread. High-impact phenolic insulation. Rugged terminals. Caps unscrew from front for lamp replacement. With mtg. hardware; less lamp. Av. shgp. wt., 3 oz.

1" MOUNTING HOLE TYPES

Series 103-3101. For use with S6 screw-base lamp. Size, 1 $\frac{1}{2}$ "x1 $\frac{1}{2}$ ". Screw-type terminals. *Indicates frosted lens.

A	Stock No. (Faceted)	Mfr's Type	B	Stock No. (Dome)	Mfr's Type	Color
52 E 885	-1331	52 E 892	-1211*	Red		
52 E 886	-1332	52 E 893	-1212*	Green		
52 E 887	-1333	52 E 894	-1213*	Amber		
52 E 888	-1334	52 E 895	-1214*	Blue		
52 E 889	-1335	52 E 896	-1215	White		
52 E 890	-1336	52 E 897	-1216*	Yellow		
52 E 891	-1337	52 E 898	-1217*	Clear		

1 to 9, NET EACH.....2.20
10 or More, EACH.....1.98

Series 103-3502. As above, but for 656 bayonet base lamp. *Indicates frosted lens.

A	Stock No. (Faceted)	Mfr's Type	B	Stock No. (Dome)	Mfr's Type	Color
52 E 839	-1331	52 E 846	-1211*	Red		
52 E 840	-1332	52 E 847	-1212*	Green		
52 E 841	-1333	52 E 848	-1213*	Amber		
52 E 842	-1334	52 E 849	-1214*	Blue		
52 E 843	-1335	52 E 878	-1235	White		
52 E 844	-1336	52 E 879	-1236	Yellow		
52 E 845	-1337	52 E 880	-1217*	Clear		

1 to 9, NET EACH.....2.20
10 or More, EACH.....1.98

1 $\frac{1}{16}$ " MOUNTING HOLE TYPES

Series 126-408. Pilot light assemblies for use with NE-51 neon lamps. Built-in resistor. All have solder terminals. Size, $\frac{1}{16}$ "x $\frac{2}{16}$ ".

C	Stock No. (Fluted)	Mfr's Type	D	Stock No. (Plain)	Mfr's Type	Color
52 E 823	-1191	52 E 828	-1131	Red		
52 E 824	-1192	52 E 829	-1132	Amber		
52 E 825	-1193	52 E 830	-1133	Clear		

1 to 9, NET EACH.....1.94
10 or More, EACH.....1.74

"PRESS-TO-TEST" SERIES

Series VM-911M. "Press-to-test" indicator assemblies. Feature built-in circuit testing provision and optional shutter dimming construction. Have 3 soldering terminals: 2 for normal circuit and 1 for test circuit. Units are completely enclosed. Provide 180° daylight beam; "halo" light for night. Require $\frac{1}{16}$ " mtg. hole. $\frac{3}{16}$ "x1". For Nos. 327, 328, bulbs, 1 oz.

Dimmer		Non-Dimmer		Lens Color
Stock No.	Mil. No.	Stock No.	Mil. No.	
52 E 415	MS25041-1	52 E 456	MS25041-5	Clear
52 E 416	MS25041-2	52 E 457	MS25041-6	Red
52 E 417	MS25041-3	52 E 458	MS25041-7	Green
52 E 418	MS25041-4	52 E 459	MS25041-8	Amber

1 to 9, NET EACH.....2.06
10 or More, EACH.....1.85

SITTLER PANEL LAMP



Type 211007 Neon Indicating Lamp. Has starting voltages of 65 v. AC; 90 v. DC. 1-25 watt. Switchboard side-type base. Shgp. wt. 2 oz.
52 E 380. NET.....40c

COLE-HERSEE

DASH LAMP ASSEMBLY



Type DL-3. With nickel-plated hood. Socket takes Nos. 51, 53, 55 or 57 bulbs (see page 211). $\frac{3}{8}$ " mtg. hole (stem-mounted). Has single wire 12" long. Easy to install on dashboards, panels, etc. Shgp. wt., 2 oz.
52 E 633. NET.....44c

SUBMINIATURE SERIES

Extremely compact pilot light assemblies for use with tiny T-132 bulbs (voltages from 1.3 to 28). Caps unscrew from front of panel for easy lamp replacement. Permanent isolation from ground assured by military-grade phenolic material. All connections, lamp, and socket are completely insulated from the bushing and panel. Ruggedly constructed of brass and are finished in black nickel. Size, $\frac{1}{2}$ "x $\frac{1}{4}$ ". Supplied with lockwasher and nut. Less lamp (see listing on page 211). Av. shgp. wt., 2 oz.

2-TERMINAL PLASTIC DOME TYPES

Series 101-5030 Front Mount and 101-3830 Back Mount. Front mount pilot lights (Fig. F) require $\frac{1}{32}$ " panel clearance; back mount (Fig. G) pilot lights require $\frac{1}{32}$ " clearance hole. For Nos. 327, 328 bulbs.

F	Stock No. (Front)	G	Stock No. (Back)	Mfr's Type	Color
52 E 513		52 E 521	-951	Red	
52 E 514		52 E 522	-952	Green	
52 E 515		52 E 523	-973	Amber	
52 E 516		52 E 524	-975	White	

10-Up, EACH.....1.12 1-9, EACH.....1.24

1-TERMINAL LIGHT SHIELD TYPES

H 1-terminal units for use in grounded circuits. Meet MIL-L-7806-A specifications. Opening on side of assembly emits light on panel—ideal for dials, instruments control panels, etc. Movable contact is made solid brass; spring does not carry current. Require $\frac{1}{16}$ " dia. mtg. Fits Nos. 327, 328 bulbs.

Type 4-1930. With soldering terminal.
52 E 544. 10-Up, EA. 1.43 1-9, EA. 1.59

Type 4-1830. With binding screw terminal.
52 E 549. 10-Up, EA. 1.43 1-9, EA. 1.59

1-TERMINAL NON-DIMMING TYPES

J Series 8-1830 With Binding Screw and Series 8-1930 With Soldering Terminal. Meet MIL-L-7806-A specifications. All have frosted lenses except *unfrosted. $\frac{1}{16}$ " mtg. hole. For Nos. 327, 328 bulbs.

Stock No. (Screw)	Stock No. (Solder)	Mfr's Type	Color
52 E 423	52 E 433	-111	Red
52 E 424	52 E 434	-112	Green
52 E 425	52 E 435	-113	Amber
52 E 426	52 E 436	-114	Blue
52 E 427	52 E 437	-135*	White
52 E 428	52 E 438	-116	Yellow
52 E 429	52 E 439	-117	Clear

1 to 9, NET EACH.....1.24
10 or More, EACH.....1.12

LOW VOLTAGE ENCLOSED SIGNAL ASSEMBLIES

K Series 812210. Aviation type signal assemblies with smooth-faced jewels in $\frac{1}{2}$ " white-nickel holder. Take T-3 $\frac{1}{4}$ min. bayonet base tubular lamp, replaceable from front (see page 211). 2 $\frac{1}{2}$ " long. Require $\frac{1}{16}$ " mtg. hole. For panels up to $\frac{3}{8}$ " thick. Less lamp. Shgp. wt., 3 oz.

Stock No.	Mfr's Type	Cap Color	NET EACH
52 E 589	111	Red	56c
52 E 590	112	Green	
52 E 591	113	Amber	
52 E 592	135	White	

REPLACEMENT JEWEL CAPS ONLY FOR ABOVE

No.	Type	Color	EACH	10-Up
52 E 535	81-111	Red	16c	14c
52 E 536	81-112	Green		
52 E 537	81-135	White		
52 E 538	81-113	Amber		

PILOT BULB REMOVER



Designed to expedite installation or removal of miniature and candlebra lamps. High-grade rubber. Wt., 2 oz.
52 E 550. NET.....26c

NEON INDICATOR LIGHTS

L Series 95408X and Series 95408XH. Enclosed neon indicator lights. Series 95408X have built-in 56,000-ohm, $\frac{1}{2}$ watt resistor for NE-51 neon lamps in 105-125 v. AC-DC circuits. Series 95408XH (*) have built-in resistor of 18,000 ohms for use with NE-51H "high brightness" neon low lamp on 105-125 v. AC, or DC circuits over 160 v. 2 $\frac{1}{2}$ " long, $\frac{1}{16}$ " hole. Meet MIL-L-3661, CSA and U.L. requirements. Less lamp (see page 211), 3 oz.

Stock No.	Mfr's Type	Stock No.	Mfr's Type	Cap Color
52 E 504	931	53 E 142	931H*	Red
52 E 505	933	53 E 143	933H*	Amber
52 E 506	935	53 E 144	935H*	White
52 E 507	937	53 E 145	937H*	Clear

1-9, NET EACH.....1.19
10 or More, EACH.....1.07

NEON PANEL ASSEMBLIES

M Series 952208. Enclosed neon pilot light assemblies. Have built-in 56,000 ohm resistor for NE-51 in 105-125 v. AC-DC circuits; except * with 18,000 ohm resistor for NE-51H "high brightness" lamp for use with 105-125 v. AC or 160 v. DC. 2 $\frac{1}{2}$ " long, $\frac{1}{16}$ " mtg. hole. Less lamp (see page 211). Wt., 3 oz.

Stock No.	Mfr's Type	Stock No.	Mfr's Type	Cap Color
52 E 581	931	53 E 146	931H*	Red
52 E 582	933	53 E 147	933H*	Amber
52 E 583	935	53 E 148	935H*	White
52 E 584	937	53 E 149	937H*	Clear

NET EACH.....68c

REPLACEMENT PLASTIC CAPS FOR ABOVE

Stock No.	Mfr's Type	Color	1 to 9, EACH	10 or More, EACH
52 E 565	95-931	Red	15c	13c
52 E 566	95-933	Amber		
52 E 567	95-935	White		
52 E 568	95-937	Clear		

PILOT LIGHT SOCKETS

Popular Dialco assemblies. Cadmium plating on all brackets. Terminal lugs of tinned brass to facilitate rapid soldering. Coil spring construction on all bayonet type sockets. Supplied with high-grade insulating washers. See page 211 for complete selection of miniature screw lamps (for Series 500), bayonet lamps (for Series 700), and candlebra lamps (for Series 600). Av. shgp. wt., per 5, 0 c. 5 per pkg.

MINIATURE SCREW

Stock No.	Mfr's Type	Fig.	Per Pkg.	5 Pkgs. or More, Per Pkg.
52 E 400	501 P		36c	32c
52 E 401	507 N		28c	25c
52 E 402	504 R		36c	32c
52 E 410	505 S		34c	31c

MINIATURE BAYONET (Not illustrated.)

Stock No.	Mfr's Type	Per Pkg.	5 Pkgs. or More, Per Pkg.
52 E 404	701	39c	35c
52 E 405	707	32c	28c
52 E 403	704	39c	35c
52 E 406	705	39c	35c

CANDELABRA SCREW—115 VOLTS

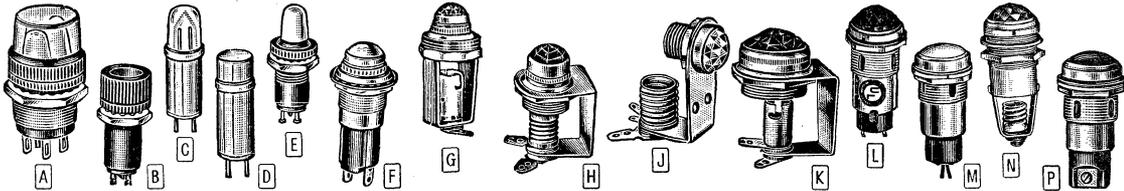
Stock No.	Mfr's Type	Fig.	Per Pkg.	5 Pkgs. or More, Per Pkg.
52 E 407	601 P		45c	41c
52 E 408	604 R			
52 E 409	605 S			

PILOT LIGHT LENS CAPS

All-purpose $\frac{3}{4}$ ", $\frac{1}{2}$ ", and $\frac{1}{4}$ " diameter smooth jewels in polished nickel-plated brass holders for up to $\frac{3}{8}$ " panels. Require $\frac{1}{16}$ ", $\frac{7}{16}$ " and $\frac{3}{8}$ " holes, respectively, for mounting. 2 oz. Deduct 10% of price for 10 or more.

Size	Stock No.	Stock No. Green	Stock No. Amber	NET EACH
$\frac{3}{4}$ "	52 E 444	52 E 445	52 E 446	24c
$\frac{1}{2}$ "	52 E 490	52 E 491	52 E 492	13c
$\frac{1}{4}$ "	52 E 447	52 E 448	52 E 449	20c

Dialco "Datalites" and Indicator Lights



NEW "DATALITES" ULTRA-MINIATURE INDICATOR LIGHTS

Ultra-miniature indicators. Ideal for data-processing equipment, computers and automation applications. Fully insulated; conform to all applicable military specs. Two basic styles: twin or single assemblies with replaceable lamp cartridges; and permanent type with built-in, non-replaceable neon glow lamps.

TWIN LAMP ASSEMBLY

A Type 248-6939-1437. Compact assembly for two Dialco lamp cartridges (see below). Requires only 3/4" dia. hole. Permits independent operation of each lamp—indicates 4 possible conditions; or lamps can be parallel-wired. Cartridges replace from front. Clear plastic lens. Less cartridges. Wt., 3 oz. **54 E 100, 1 to 19, NET EACH.....6.12**
20 or More, EACH.....4.08

SINGLE LAMP ASSEMBLY

B Type 7538. Ultra-compact holder for Dialco lamp cartridges—requires only 3/8" dia. mtg. hole. Lamp cartridge is easily replaced from the front. Terminals are marked and offset to indicate polarity. Less cartridge. 2 oz. **54 E 101, 1 to 19, NET EACH.....2.35**
20 or More, EACH.....1.57

REPLACEABLE LAMP CARTRIDGES

Series 38 Neon Glow Lamp Cartridges. NE-2E neon lamps mounted in aluminum sleeves capped with plastic lenses. Stovepipe type is Fig. C; long cylindrical type is similar to Fig. D. Polarized pins for plugging into either assembly above. Pins are stainless steel; mounted in nylon. 1/25 watt requires 65 v. AC or 90 v. DC starting voltage; for use with 105-125 v., 1/2 watt external resistor is recommended (see page 130). For bright light, use 56,000 ohms; for longer life, use 100,000 ohms. Av. wt., 1 oz.

Stovepipe		Long Cylindrical		Lens Color
Stock No.	Type	Stock No.	Type	
54 E 102	931	54 E 107	1531	Red
54 E 103	933	54 E 108	1533	Red Amber
54 E 104	935	54 E 109	1535	White
54 E 105	936	54 E 110	1536	Yellow
54 E 106	937	54 E 111	1537	Clear

1 to 19, NET EACH.....1.37
20 or More, EACH......88¢

Series 39-6 Incandescent Lamp Cartridges. 1-1/4 incandescent lamps in same type mount as above. Short cylindrical type is Fig. D; stovepipe type is similar to Fig. C. For 6 v., 0.2 amps. Shpg. wt., 1 oz. Cartridges with other ratings available on special order.

Stovepipe		Short Cylindrical		Lens Color
Stock No.	Type	Stock No.	Type	
54 E 112	971	54 E 118	1471	Red
54 E 113	972	54 E 119	1472	Green
54 E 114	973	54 E 120	1473	Amber
54 E 115	974	54 E 121	1474	Blue
54 E 116	975	54 E 122	1475	White
54 E 117	976	54 E 123	1476	Yellow

1 to 19, NET EACH.....2.00
20 or More, EACH.....1.33

PERMANENT "DATALITES"

E Series 249-7840. Ultra-compact indicators with built-in, non-replaceable NE-2E neon glow lamps. Require only 3/8" dia. mtg. hole. Have same power requirements and use same external resistors as Series 38 above. Av. shpg. wt., 2 oz. Available on special order with built-in 56,000 ohm or 100,000 ohm resistors. Cylindrical types also available with hot-stamped legends. Write Allied for literature and prices.

STOVEPIPE		CYLINDRICAL (Similar to Fig. D)	
Stock No.	Type	Lens	1-19, EA. 20-Up, EA.
54 E 124	931	Red	1.68 1.12
54 E 125	933	Amber	
54 E 126	935	White	1.76 1.18
54 E 127	936	Yellow	
54 E 128	937	Clear	

STOVEPIPE		CYLINDRICAL (Similar to Fig. D)	
Stock No.	Type	Lens	1-19, EA. 20-Up, EA.
54 E 129	1431	Red	1.76 1.18
54 E 130	1433	Amber	
54 E 131	1435	White	1.76 1.18
54 E 132	1436	Yellow	
54 E 133	1437	Clear	

HALF-INCH ENCLOSED TYPE INDICATOR LIGHTS

F Series 81410X. Rugged, aviation-type socket shell with smooth jewel in 1/2" nickel-brass holder. Take T-3/4 min. bayonet base lamp, replaceable from front. 2 1/4" long, 1 1/8" mtg. hole. Fits panels up to 3/4" thick. Less lamp (see page 211). U.L. Approved. Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Cap Color	NET EACH	10 or More, EACH
52 E 530	111	Red	1.19	1.07
52 E 531	112	Green		
52 E 532	113	White		
52 E 533	113	Amber		

Replacement Jewel Caps for Above

Stock No.	Mfr's Type	Red <th>Green <th>White <th>Amber </th></th></th>	Green <th>White <th>Amber </th></th>	White <th>Amber </th>	Amber
52 E 535	81-111	16c	14c		
52 E 536	81-112				
52 E 537	81-135				
52 E 538	81-113				

HALF-INCH OPEN TYPES

G Series 857B. Requires an 1 1/8" mtg. hole. 1/2" lens. 2" long. Tinned solder terminals. For panels up to 1/4" thick. With mounting washer. Less lamp. Uses type 44, 47 or 51 listed on page 211. Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Jewel Color	NET EACH	10 or More, EACH
52 E 545	431	Red	44c	40c
52 E 546	432	Green		
52 E 547	433	Amber		
52 E 548	434	Blue		

MINIATURE TYPES

H Series 810. Screw and bayonet types. 1/2" jewel. Require an 1 1/8" mtg. hole. Use miniature bulbs. Series M takes T-3/4 bulb, screw base; *Series B takes T-3/4 bulb, bayonet base. Less lamp; see page 211. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Jewel Color	NET EACH	10 or more, EACH
52 E 450	M-431	Red	32c	29c
52 E 451	M-432	Green		
52 E 452	M-433	Amber		
52 E 453	B-431*	Red		
52 E 454	B-432*	Green		
52 E 455	B-433*	Amber		

J Series 510, 610, and 710. Open-type visual indicators. Faceted jewels. Lug terminals. Require 7/8" mounting hole. Less lamp (see page 211). Type 510, 710 take T-3/4 bulb style, 610 takes S6. Shpg. wt., 2 oz.

Series 510 Miniature Screw Type

Stock No.	Mfr's Type	Jewel Color	NET EACH	10 or more, EACH
52 E 475	431	Red	21c	19c
52 E 476	432	Green		
52 E 477	433	Amber		

Series 610 Candelabra Screw Type

Stock No.	Mfr's Type	Jewel Color	NET EACH	10 or more, EACH
52 E 540	431	Red	21c	19c
52 E 541	432	Green		
52 E 542	433	Amber		

Series 710 Miniature Bayonet Type

Stock No.	Mfr's Type	Jewel Color	NET EACH	10 or more, EACH
52 E 480	431	Red	21c	19c
52 E 481	432	Green		
52 E 482	433	Amber		

MINIATURE SOCKETS

K Series 910. Open type with chrome-plated brass jewel holders. 1 1/2" long. 1" mounting hole. Miniature types take T-3/4 bulb style; candelabra type takes S6 style. Less bulb. Shpg. wt., 3 oz.

MINIATURE BAYONET TYPE

Stock No.	Color	NET EACH	10 or More, EACH
52 E 420	Red	61c	55c
52 E 421	Green		
52 E 422	Amber		

MINIATURE AND CANDELABRA SCREW

Color	Miniature Screw	Candelabra Screw	NET EACH	10 or More, EACH
Red	52 E 430	52 E 440	58c	52c
Green	52 E 431	52 E 441		
Amber	52 E 432	52 E 442		

ONE-INCH ENCLOSED TYPES

L Series 313101. 115-volt, enclosed pilot lamp assembly. Black bakelite and brass. Has faceted jewel in chrome-plated holder. Candelabra screw socket. 1" mounting hole. *Not recommended for neon; all others for neon or incandescent. For type S6 bulbs. U.L. Approved. Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Jewel Color	NET EACH	10 or More, EACH
52 E 460	431	Red	1.03	93c
52 E 461	432	Green*		
52 E 462	433	Amber*		
52 E 510	437	Clear		
52 E 511	434	Blue*		
52 E 512	435	White		

ASSEMBLIES WITH WIRE LEADS

M Series 312901. Enclosed assembly. With 6" wire leads. Solid brass. Has friction-fit, chrome-plated cap. 1" mtg. hole. U.L. Approved. Less S6 candelabra screw-base lamp (see page 211). Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Jewel Color	NET EACH	10 or More, EACH
52 E 485	111	Red	1.13	1.02
52 E 486	112	Green		
52 E 487	113	Amber		
52 E 488	117	Clear		

ONE-INCH OPEN TYPES

N Series 75. 115-volt open-type pilot lamp assembly with faceted jewel in chrome-plated brass holder. Candelabra screw socket. Solid brass construction. Friction-fit chrome-plated cap. 1" mounting hole. Less S6 lamp (see page 211). Shpg. wt., 5 oz.

Stock No.	Mfr's Type	Jewel Color	NET EACH	10 or More, EACH
52 E 500	C-431	Red	70c	63c
52 E 501	C-432	Green		
52 E 502	C-433	Amber		

JEWEL CAP ASSEMBLIES

P Series 31914. For NE-45, NE-57, etc. Candelabra screw base neon lamps. 115 v., 2 1/2" long. 1" mtg. hole. Neon lamp removable from front. Less lamp (see page 211). U.L. Approved. Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Jewel Color	NET EACH	10 or More, EACH
52 E 559	111	Red	1.03	93c
52 E 560	113	Amber		
52 E 562	137	Clear		

REPLACEMENT JEWEL CAPS

For Series 312901 and 31914

Stock No.	Mfr's Type	Cap Color	NET EACH	10 or More, EACH
52 E 575	31-111	Red	35c	31c
52 E 576	31-112	Green		
52 E 578	31-113	Amber		
52 E 578	31-117	Clear		

FOR SERIES 75, 910, AND 313101

Stock No.	Mfr's Type	Red <th>Green <th>Amber <th>Clear </th></th></th>	Green <th>Amber <th>Clear </th></th>	Amber <th>Clear </th>	Clear
52 E 525	31-431	35c	31c		
52 E 526	31-432				
52 E 527	31-433				
52 E 588	31-437				

DRAKE NEON INDICATING LIGHTS



R Type 110 "Flushlite." Neon light in translucent plastic base. For 110-125 v. AC-DC. 1/2"x1/2"x3/8", 1 1/2" mtg. ctrs. Wt., 2 oz. 78 E 061, 10-Up, EA...39¢ 1-9, EA...43¢

S Type 106 "Post-lite." Panel lights for 65-130 v. AC or 90-130 v. DC. 2 1/4" long. Require 3/4" mtg. hole. With mtg. nut, 2 oz. 78 E 062, 10-Up, EA...52¢ 1-9, EA...58¢

Type R115 "Taperlite." Neon lamps with resistor for 110-125 v. AC-DC. 3/8" dia. mtg. hole. Wt., 1 oz. 53 E 192, NET.....87¢
Type 115. As above, less built-in resistor. 53 E 193, NET.....70¢

Littelfuse Fuses and Mountings

CARTRIDGE FUSES FOR RADIO, TV & INSTRUMENTS

TYPE 3AG STANDARD FUSES

Series 312000. Quick to medium acting fuses for short time-lag applications. For auto radios, amplifiers, etc. High operating temperatures do not affect fuse characteristics. 1/4x1/4". Pkg. ship. wt., 2 oz. 5 fuses per pkg.

Amps	Max. Volts	Stock No.	Per Pkg.	20 Pkgs. or more, Per Pkg.	Amps	Max. Volts	Stock No.	Per Pkg.	20 Pkgs. or more, Per Pkg.
1/16	250	52 B 242	59c	49c	3/4	250	52 B 233	38c	32c
1/8	250	52 B 230			1	250	52 B 234	24c	20c
1/100	250	52 B 671			1 1/2	250	52 B 235	24c	20c
1/75	250	52 B 672	38c	32c	2	250	52 B 236	24c	20c
3/16	250	52 B 161			3	250	52 B 237	21c	18c
1/4	250	52 B 231			4	250	52 B 238	29c	24c
3/10	250	52 B 673	79c	67c	5	250	52 B 239	29c	24c
3/8	250	52 B 243			6	250	52 B 240	29c	24c
1/2	250	52 B 232			8	125	52 B 248	44c	37c

TYPE 3AG SLO-BLO FUSES

Series 313000. Slo-Blo fuses with high time-lag to stand heavy surges. Designed for circuits having high inductive or capacitive surges. Also for circuits having heavy starting currents, such as motors and lamps. Units through 5 amps are U.L. Approved. Size: 1/4" long and 1/4" diameter. Shpg. wt., per pkg. 2 oz. 5 fuses per pkg.

Amps	Max. Volts	Stock No.	Per Pkg.	20 Pkgs. or more, Per Pkg.	Amps	Max. Volts	Stock No.	Per Pkg.	20 Pkgs. or more, Per Pkg.
1/100	125	52 B 185	1.06	88c	1	125	52 B 220	79c	67c
1/32	125	52 B 186	1.06	88c	1 1/4	125	52 B 253	73c	61c
1/16	125	52 B 187	79c	67c	1 1/2	125	52 B 198	73c	61c
1/10	125	52 B 252	79c	67c	1.6	125	52 B 254	73c	61c
1/8	125	52 B 188	79c	67c	2	125	52 B 179	73c	61c
15/100	125	52 B 189	79c	67c	2 1/2	125	52 B 257	73c	61c
.175	125	52 B 675			3	125	52 B 181	73c	61c
3/16	125	52 B 190			3.2	125	52 B 227	59c	49c
2/10	125	52 B 91	79c	67c	4	125	52 B 227	59c	49c
1/4	125	52 B 921			5	125	52 B 223	59c	49c
3/10	125	52 B 192			6 1/4	32	52 B 183	59c	49c
3/8	125	52 B 193	79c	67c	8	32	52 B 184	59c	49c
4/10	125	52 B 194			10	32	52 B 226	59c	49c
1/2	125	52 B 923			15	32	52 B 224	59c	49c
6/10	125	52 B 195	79c	67c	20	32	52 B 225	59c	49c
3/4	125	52 B 196			25	32	52 B 676	59c	49c
8/10	125	52 B 197			30	32	52 B 677	59c	49c

TYPE 3AB FUSES

Series 314000. Statelite enclosed, arc-quenching, powder-filled fuses. Shatter-proofed against quick shorts. Medium lag. 1/4x1/4". Types through 15 amps, U.L. Approved. Shpg. wt., per pkg., 2 oz. 5 fuses per pkg.

Amps	Max. Volts	Stock No.	Per Pkg.	20 Pkgs. or more, Per Pkg.	Amps	Max. Volts	Stock No.	Per Pkg.	20 Pkgs. or more, Per Pkg.
1	250	52 B 678	50c	42c	10	250	52 B 244	50c	42c
2	250	52 B 679			12	250	52 B 245	50c	42c
3	250	52 B 680			15	250	52 B 246	50c	42c
5	250	52 B 681			20	250	52 B 247	50c	42c
8	250	52 B 241			30	125	52 B 682	59c	49c

TYPE 8AG FAST ACTION INSTRUMENT FUSES

Series 361000. For protection of meter movements and delicate electronic equipment. High-speed action to prevent damage to instruments. Size, 1x1/4". Shpg. wt., 2 oz. 5 fuses per package.

Ampere Rating	Blow Point In Ma	Max. Volts	Stock No.	Per Pkg.	20 Pkgs. or more, Per Pkg.
1/500	3	250	52 B 199	3.53	2.94
1/200	8	250	52 B 200	1.47	1.22
1/100	16	250	52 B 201	1.11	0.91
1/32	40	250	52 B 202	1.18	.98
1/16	85	250	52 B 203	.79	.67
1/8	155	250	52 B 205	.59	.49
1/4	270	250	52 B 206	.38	.32
3/8	380	250	52 B 207	.38	.32
1/2	520	250	52 B 208	.38	.32
3/4	800	250	52 B 209	.38	.32
1	1300	250	52 B 210	.29	.24
1 1/2	1950	250	52 B 212	.29	.24
2	2600	250	52 B 211	.29	.24
3	3600	250	52 B 213	.29	.24
5	6000	32	52 B 214	.29	.24

TYPE 3AG PIGTAIL FUSES

*Series 315000. †Series 318000. Wire lead fuses for TV and limited-space applications. 1/4x1/4". Shpg. wt., per pkg., 2 oz. 5 fuses per pkg.

Amps	Volts	Action	Stock No.	Per Pkg.	20 Pkgs. or more, Per Pkg.
15/100	125	Slo-Blo	52 B 280*	1.00	.83
2/10	125	Slo-Blo	52 B 281*	1.00	.83
1/2	125	Slo-Blo	52 B 282*	1.00	.83
2	125	Slo-Blo	52 B 217*	.94	.78
2 1/2	125	Slo-Blo	52 B 218*	.79	.67
4 1/2	125	Slo-Blo	52 B 219*	.79	.67
5	125	Slo-Blo	52 B 229*	.79	.67
1/16	250	Fast	52 B 927†	.73	.62
1/8	250	Fast	52 B 277†	.73	.62
1/4	250	Fast	52 B 215†	.59	.49
3/8	250	Fast	52 B 278†	.59	.49
1/2	250	Fast	52 B 279†	.59	.49
1	250	Fast	52 B 928†	.44	.37

TYPE 4AG SLO-BLO FUSES

Series 413000. Will withstand severe vibration. Will open within 1 hour on 135% overload; within 60 seconds on 200%; immediately on short circuit. 1/4x3/8". Shpg. wt., 2 oz. 5 fuses per package.

Amps	Max. Volts	Stock No.	Per Pkg.	20 Pkgs. or more, Per Pkg.	Amps	Max. Volts	Stock No.	Per Pkg.	20 Pkgs. or more, Per Pkg.
1/10	250	52 B 992	1.03	86c	2 1/2	250	52 B 946	79c	67c
15/100	250	52 B 993			3	250	52 B 989		
2/10	250	52 B 994			3-2/10	250	52 B 947		
1/4	250	52 B 985	1.03	86c	4	32	52 B 948	79c	67c
3/10	250	52 B 995			5	32	52 B 990		
1/2	250	52 B 996			6 1/4	32	52 B 949		
4/10	250	52 B 986	1.03	86c	8	32	52 B 960	79c	67c
1/2	250	52 B 997			10	32	52 B 991		
6/10	250	52 B 987			15	32	52 B 961		
3/4	250	52 B 683			20	32	52 B 962		
1 1/4	250	52 B 989	1.03	86c	25	32	52 B 963	79c	67c
1-6/10	250	52 B 945			30	32	52 B 964		
2	250	52 B 988							

TYPE 4AG AND 5AG STRAIGHT-ELEMENT FUSES

Series 417000: 1/4x3/8"; *Series 517000: 1/2x1/2". Medium-lag, heavy-duty types. Shpg. wt., per pkg., 2 oz. 5 fuses per package.

Amps	Max. Volts	Stock No.	Per Pkg.	20 Pkgs. or more, Per Pkg.	Amps	Max. Volts	Stock No.	Per Pkg.	20 Pkgs. or more, Per Pkg.
1	250	52 B 1121	38c	32c	* 1	250	52 B 136	47c	39c
2	250	52 B 1122	38c	32c	* 2	250	52 B 137		
3	250	52 B 1123	38c	32c	* 3	250	52 B 138		
5	32	52 B 1115	32c	27c	* 4	32	52 B 139	44c	37c
10	32	52 B 134	32c	27c	* 5	32	52 B 140		
15	32	52 B 135	32c	27c	*10	32	52 B 141		
20	32	52 B 116	32c	27c	*15	32	52 B 142	44c	37c
25	32	52 B 117	32c	27c	*20	32	52 B 143		
30	32	52 B 118	32c	27c	*25	32	52 B 144	44c	37c
35	32	52 B 119	38c	32c	*30	32	52 B 145		
40	32	52 B 132	38c	32c					

LIMITED-CURRENT BAYONET FUSES

TV fuses for 346000 series bayonet-lock fuse holders only. Series 333000 are Slo-Blo; 332000 are regular. Shpg. wt., 2 oz. 5 fuses per pkg.

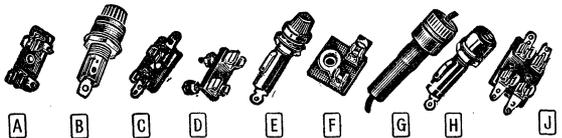
333000 Series					332000 Series				
.25	125	52 B 167	82c	69c	.3	250	52 B 168	47c	39c
.5	125	52 B 162	82c	69c	.75	250	52 B 169	47c	39c
1.0	125	52 B 164	82c	69c	2.5	250	52 B 163	26c	23c
1.25	125	52 B 166	76c	64c					

TYPE SFE 32-VOLT AUTO FUSES

Series 307000. Medium-acting fuses. Made to sizes specified by S.A.E. U.L. Approved. Shpg. wt., per pkg., 2 oz. 5 fuses per pkg.

Amps	Max. Volts	Stock No.	Size	Per Pkg.	20 Pkgs. or more, Per Pkg.
4	32	52 B 250	1/4" dia. x 5/8"	16c	13c
6	32	52 B 255	1/4" dia. x 3/4"	16c	13c
7 1/2	32	52 B 274	1/4" dia. x 7/8"	16c	13c
9	32	52 B 260	1/4" dia. x 1"	15c	13c
14	32	52 B 265	1/4" dia. x 1 1/8"	14c	11c
20	32	52 B 270	1/4" dia. x 1 1/2"	14c	11c
30	32	52 B 275	1/4" dia. x 1 3/4"	18c	15c

LITTELFUSE MOUNTINGS—EXTRACTOR POSTS



Fuse holders for every application. *With fuse. Av. shpg. wt., 3 oz.

Stock No.	Type	Fig.	For Fuses:	Description	EACH
41 B 720	341001	H	3AG, 3AB	Panel mount, screw slot	29c
41 B 721	371001	H	8AG	Panel mount, screw slot	29c
41 B 729	442001	E	4AG	Panel mount, thumb knob	73c
41 B 727	342001	E	3AG, 3AB	Panel mount, thumb knob	29c
41 B 728	372001	E	8AG	Panel mount, thumb knob	29c
52 B 292	357001	C	3AG, 3AB	Single fuse, lug term.	12c
52 B 285	387001	C	8AG	Single fuse, lug term.	12c
52 B 294	356001	C	3AG, 3AB	Single fuse, screw term.	25c
40 B 450	351011	A	3AG, 3AB	Single fuse mounting	16c
52 B 296	387002	J	2-8AG	Double fuse mounting	24c
52 B 297	357002	J	2-3AG or 3AB	Double fuse mounting	24c
52 B 295	383002	F	8AG	"Meter-back" mounting	21c
52 B 291	353001	D	3AG, 3AB	Panel type mounting	35c
41 B 788	155009	G	*SFE, (9 a.)	Inline fuse retainer for autos	29c
41 B 798	155014	G	*SFE, (14 a.)	Inline fuse retainer for autos	29c
41 B 789	155020	G	*SFE, (20 a.)	Inline fuse retainer for autos	29c
41 B 795	342012	B	3AG	Miniature fuse extractor post	29c

PHOSPHOR BRONZE FUSE CLIPS

Burnished nickel plate with fuse stop ears. 10 Clips Per Pkg. Wt., 5 oz.

Stock No.	For Fuse Types:	Per Pkg.	10 Pkgs., Per Pkg.
52 B 685	SFE, 3AG, 8AG, 3AB	.15	.13
52 B 686	4AG, 4AB	.29	.24
52 B 687	5AG High-voltage Midget	.35	.29
52 B 688	NEC-30 Fuses	.47	.39
52 B 689	Standard High-voltage	1.29	1.08

TYPE 350

Buss and Fusetron Fuses

STANDARD AND FUSETRON TYPES



TYPE MDL FUSETRON FUSES

Long time-lag prevents needless blows. Operates instantly on high overloads or shorts. Thermal cutout operates slowly on low overloads. Size, 1/4x1/4". U.L. Approved. Shpg. wt., per pkg., 2 oz. 5 fuses per pkg.

250 VOLTS MAX

Amps	Stock No.	Per Pkg.	20 Pks. or more, Per Pkg.	Amps	Stock No.	Per Pkg.	20 Pks. or more, Per Pkg.
1/100	53 B 441	1.08	.88	3/10	53 B 452	78c	67c
1/32	53 B 442	1.08	.88	4/10	53 B 453		
1/16	53 B 443	.78	.67	1/2	53 B 454		
1/10	53 B 444	.78	.67	6/10	53 B 455		
15/100	53 B 450	.78	.67	8/10	53 B 456		
2/10	53 B 451	.78	.67	1	53 B 461		

125 VOLTS MAX

1-1/4	53 B 462	73c	62c	2-1/2	53 B 465	59c	49c
1-6/10	53 B 463			2-8/10	53 B 466		
2	53 B 464			3-2/10	53 B 467		

32 VOLTS MAX

4	53 B 468	59c	49c	8	53 B 471	59c	49c
5	53 B 469			10	53 B 472		
6-1/4	53 B 470			15	53 B 473		

TYPE MDX 125-VOLT FUSETRONS

Have same thermal delay action as Type MDL above, but open in approximately half the time. At 200% load opens in 12 seconds; at 300% load, 3 seconds; at 500% load, 1/2 second. 1/4x1/4". U.L. Approved. Shpg. wt. per pkg., 2 oz., per 100, 15 oz. 5 fuses per pkg.

Amps	Stock No.	Per Pkg.	20 Pks. or more, Per Pkg.	Amps	Stock No.	Per Pkg.	20 Pks. or more, Per Pkg.
4	53 B 503	.69	.57	6 1/4	53 B 505	.69	.57
5	53 B 504	.69	.57	7	53 B 506	.69	.57

TYPE N TIME DELAY FUSES

Slow-blowing glass tube fuses. Time-delay action; unaffacted by harmless surges which might cause ordinary fuses to fail. 1/4 and 1/2 amp fuses, 1/4x1/4"; others, 3/4x1/4". 250 volts maximum. Av. shpg. wt. per pkg., 2 oz. 5 fuses per pkg.



Amps	Stock No.	Per Pkg.	20 Pks. or more, Per Pkg.	Amps	Stock No.	Per Pkg.	20 Pks. or more, Per Pkg.
1/4	53 B 535	.83	.69	2	53 B 538	.78	.64
1/2	53 B 536	.83	.69	3-2/10	53 B 539	.69	.59
1-6/10	53 B 537	.78	.64	5	53 B 540	.69	.59

TYPE W PLUG FUSES

Finest quality plug-type house fuses. Condition of fuse is visible at a glance—extremely large window area with white background behind fuse element shows when fuse is blown. Fine quality porcelain and first-cut mica used in construction. 125 volts max. Edison base. U.L. Approved. Shpg. wt., per pkg., 6 oz. 5 fuses per pkg.



Amps	Stock No.	Per Pkg.	20 Pks. or more, Per Pkg.	Amps	Stock No.	Per Pkg.	20 Pks. or more, Per Pkg.
3	53 B 560	30c	27c	10	53 B 564	26c	24c
5	53 B 561			15	53 B 565		
6	53 B 562			20	53 B 566		
8	53 B 563			25	53 B 567		
				30	53 B 568		

TYPE HKL AND HKR INDICATOR FUSEHOLDERS

For 1/4x1/4" fuses. HKL has neon indicator which lights when fuse is blown. HKL for use in 100 to 250-volt circuits. HKR is for 32-volt circuits; has incandescent indicator. U.L. Approved. 1 oz. 53 B 501. Type HKL. NET. .126 53 B 502. Type HKR. NET. .206



LITTLE FUSE FUSE CADDIES

- Designed for Radio-TV Servicemen
- The Right Fuse When You Need It

Type 094041 Designed to fit in a tube caddy—puts the right fuse at your fingertips. Contains 15 different boxes (5 fuses per box) of Type C and N limited-current fuses marked by * in table below. Rated 250 v., except 7 amp, 125 v. Clear plastic case has 3 spare compartments. Size, 1 1/8x3x4 1/4". Shpg. wt., 2 lbs. 52 B 283. NET. .832



Type 094037 As above, but 14 boxes of fuses (types indicated by †). Also includes emergency kit with various radio fuses. Shpg. wt., 2 lbs. 52 B 272. NET. .621

Type	Amps	Type	Amps	Type	Amps
C (Regular)	.3*	N (Slo-Blo)	.6*	3AG	.2†
C (Regular)	.7*	N (Slo-Blo)	.7*	3AG	.3†
C (Regular)	.75*	N (Slo-Blo)	1*	3AG	.3†
C (Regular)	2*	N (Slo-Blo)	1.25*†	3AG-S.B.	.25†
C (Regular)	2.5*†	N (Slo-Blo)	1.6*	3AG-S.B.	.5†
C (Regular)	7*	N (Slo-Blo)	2*	8AG-U.L.	.25†
N (Slo-Blo)	.25*†	3AG	.25†	8AG-U.L.	.5†
N (Slo-Blo)	.3*	3AG	1*		
N (Slo-Blo)	.5*	3AG	1†		

AGC, MTH AND ABC FUSES

Carry 110% of rated current; open in one hour at 135%, 250 volts max. *Low-resistance fuse providing high-speed action necessary to protect delicate instruments. U.L. Approved. 1/4x1/4". Wt., 100, 15 oz. 5 fuses per pkg.



250 VOLTS MAX

Amps	Mfr's Type	Stock No.	Per Pkg.	20 Pks. or more, Per Pkg.	Amps	Mfr's Type	Stock No.	Per Pkg.	20 Pks. or more, Per Pkg.
1/16	AGC*	53 B 420	.78	.67	1 1/2	AGC	53 B 427	.24	.20
1/8	AGC	53 B 421	.59	.49	2	AGC	53 B 428	.24	.20
1/4	AGC	53 B 422	.39	.32	3	AGC	53 B 429	.21	.18
3/8	AGC	53 B 423	.39	.32	4	MTH	53 B 430	.29	.24
1/2	AGC	53 B 424	.39	.32	5	MTH	53 B 431	.29	.24
3/4	AGC	53 B 425	.39	.32	6	MTH	53 B 432	.29	.24
1	AGC	53 B 426	.24	.20	8	ABC	53 B 433	.49	.42

TYPE AGC 32-VOLT FUSES

For circuits operating at 32 volts or less. 1/4x1/4". U.L. Approved. Shpg. wt., 1 oz. per pkg. 5 fuses per pkg.

Amps	Mfr's Type	Stock No.	Per Pkg.	20 Pks. or more, Per Pkg.	Amps	Mfr's Type	Stock No.	Per Pkg.	20 Pks. or more, Per Pkg.
5	AGC	53 B 434	15c	13c	15	AGC	53 B 438	15c	13c
6	AGC	53 B 435	15c	13c	25	AGC	53 B 439	18c	15c
7 1/2	AGC	53 B 436	15c	13c	30	AGC	53 B 440	18c	15c
10	AGC	53 B 437	15c	13c					

TYPE AGX FAST-ACTING FUSES

Capable of very high speed action for proper protection of valuable instruments. Specifications: will carry 100% load; open at 200% load within 5 seconds. U.L. Approved. *Bridge construction of element. 1x1/4". Shpg. wt., per 5, 3 oz. 5 fuses per pkg.

Amps	Max. Volts	Stock No.	Per Pkg.	20 Pks. or more, Per Pkg.	Amps	Max. Volts	Stock No.	Per Pkg.	20 Pks. or more, Per Pkg.
1/4	250	53 B 513	.59	.49	3/4	125	53 B 517	.39	.32
1/2	250	53 B 514	.59	.49	1	125	53 B 518	.24	.20
3/4	250	53 B 515	.39	.32	1 1/2	125	53 B 519	.24	.20
1	250	53 B 516	.39	.32	2	125	53 B 520	.24	.20
1 1/2	250	53 B 507*	3.53	2.94	1/100	250	53 B 509*	1.32	1.11
1/200	250	53 B 508*	1.47	1.22	1/32	250	53 B 510*	1.18	.98

FUSETRON TYPE FNM LONG TIME LAG FUSES

Avoid needless blows from starting currents or surges. Fuse link operates only on high overloads or short-circuits. Thermal cutout functions on low overloads. Thermal cutout cannot operate quickly on any load—provides long time lag. Yet protection is obtained against short circuits or continued overloads. Dual-element type. Fiber tube. Specifications: carry 110% load; open at 135% load within 1 hour. Approximate blowing time: at 200% load, 25 seconds; at 300% load, 8 seconds; at 500% load, 3 seconds. U.L. Approved. 1/2x1/2". 250 v. max. except *125 v. 10 fuses per pkg. Shpg. wt. per pkg. 5 oz.



Amps	Stock No.	Per Pkg.	10 Pks. or more, Per Pkg.	Amps	Stock No.	Per Pkg.	10 Pks. or more, Per Pkg.
1 1/4	53 B 485	2.32	1.94	4	53 B 491	2.32	1.94
1-6/10	53 B 486			5	53 B 492		
2	53 B 488			6 1/4	53 B 493		
2 1/2	53 B 489			8	53 B 494		
3-2/10	53 B 490			10	53 B 495		
				15*	53 B 496		

FUSETRON TYPE T DUAL-ELEMENT FUSES

New dual-element plug fuses. Provide an additional measure of protection against "blowing" with use of thermal element—element withstands surges of starting current, overloads and short circuits. 20, 25 and 30-ampere types are for use on appliance circuits or mains; 15-ampere fuse for smaller household appliances. For voltages up to 125 volts, AC or DC. Completely shockproof—top cap is insulated with porcelain and mica. Size of fuse is imprinted on face of cap. Large window gives clear indication if fuse is blown. U.L. Approved. Shpg. wt. per pkg., 5 oz. 4 fuses per pkg.



53 B 521. 15 amp. Per Pkg.	27c	53 B 523. 25 amp. Per Pkg.	27c
53 B 522. 20 amp. Per Pkg.	27c	53 B 524. 30 amp. Per Pkg.	27c

BUSS AND G.C. FUSE MOUNTINGS



Provide a convenient way of mounting fuses on radio, TV, instrument, automobiles, etc. Fuse always easy to remove as it projects beyond holder body and is not held tight at inner end when knob is removed. † screw terminals. Av. Shpg. wt., 1 oz.

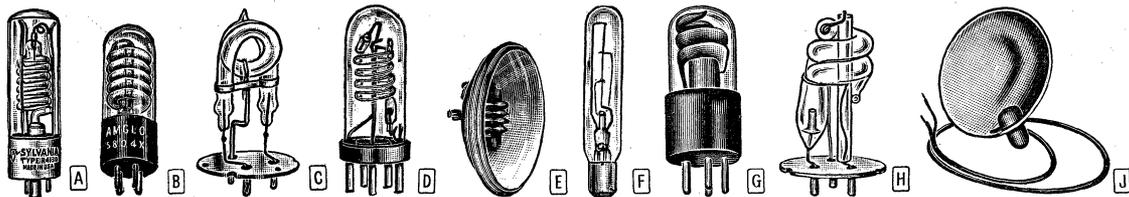
Stock No.	Type	For Fuses	NET	Stock No.	Type	For Fuses	NET
53 B 500	HPC	1/2x1 1/2"	.44	53 B 480	4405	1/4x1/4"	.12
53 B 477	HCM	3/8x1 1/2"	.41	53 B 481	4408	Double 4405	.14
53 B 475	HKP	1/2x1 1/2"	.29	41 B 735	1749	2 1/2x3/4"	.13
53 B 478	HJM	1x1 1/2"	.29	41 B 737	4513†	1 1/2x3/4"	.33

TYPE 4121 TWIN CLIPS FOR 1/4" FUSES

For replacement of pigtail TV fuses with standard snap-on type. No cutting or soldering. Less fuse. Shpg. wt. per box, 10 oz. 10 per pkg. 53 B 476. Per Pkg. 1.13



Photoflash and Stroboscope Components



ELECTRONIC FLASH TUBES AND REFLECTORS

SYLVANIA R4330

A Flash tube for high-speed photo equipment. High-voltage discharge type. 100 watt seconds; 2250 volts; flash duration, 1/5000 second. Over 30,000 flashes. Wt., 1 lb. **E3-R4330. NET.....29.10**

AMGLO FLASH TUBES

B For high-speed photo and strobe units. Flash durations from 1/500-1/10,000 sec. Specially engineered for long life. May be used for color work without filter. Color temperature, 6500° Kelvin. *Relay type; all others are trigger type. Shpg. wt., 1 lb.

Stock No.	Mfr's Type	W-S	Operating Voltage	Cap., Mfd	NET EACH
78 E 655	78R9D	200	2000-2500	15-80	14.70
78 E 652	54R4X*	200	2250-2850	15-80	14.70
78 E 653	56J22	150	450-900	300-1400	12.74
78 E 658	5804X*	110	2250-2850	15-32	13.72
78 E 662	HD-2-0	200	300-2000	1500	8.80
78 E 663	U-35	.....	400-600	1-4	5.88

G.E. FLASH TUBES

Used in amateur and professional photography, and solving research and industrial problems. Provide flashes of exceedingly high intensity for a short duration, ranging from 1/1,000 to 1/1,000,000 second. Same tube can be flashed repeatedly—tens of thousands of times. Standard equipment in many units and popular for the home kit builder and experimenter. Tubes are helix-coiled, xenon-filled. *60 watt incandescent modeling lamp fits inside Type FT-403. †Similar to Fig. D, but has 3-pin base. Av. shpg. wt., 1 lb.

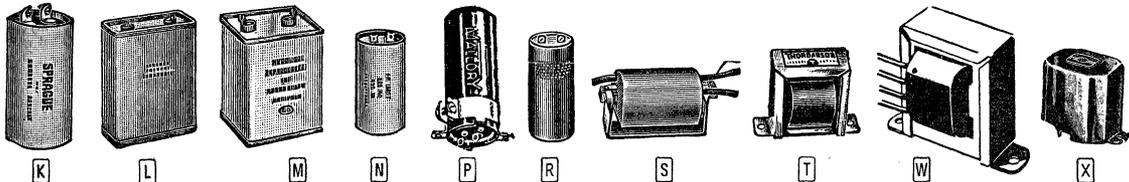
Stock No.	Type	Fig.	W-S	Volts	Mfd	NET
52 E 388	FT-218	C	200	1000	400	9.10
52 E 375	FT-118	D	200	500	1000	7.90
52 E 364	FT-214	D	200	2000	100	21.50
52 E 376	FT-220	E	200	2000	100	23.00
52 E 359	FT-403	†	480	2000	240	24.50
52 E 363	60T6½/1*	F	.....	120	.....	2.10
73H 998	122-275	.....	.....	.....	.....	1.90

SPRAGUE & KEMLITE COMPONENTS

For use in two low-cost, portable, dry-cell powered photoflash units. Schematics, parts listings and instructions in Sprague Booklet C-703 below. Two models—one using Kemlite DX flash tube (same as FA-100), and one using Kemlite DW-2 flash tube (same as FA-104). For synchro shutters or solenoid synchronization.

Uses two 450 volt capacitors (listed below) and five 90 volt Burgess N60 batteries (listed page 425). Flashes faster than 1/1000 second. Light output of 100 w.s. Flash tubes are Kemlite; reflectors and adapter are Sprague. All other parts available from Allied. Write for free parts list. Av. shpg. wt., 1 lb.

Stock No.	Type	Fig.	Descrip.	W-S	V.	NET
78 E 700	DX	G	Flash Tube	100	450	9.95
78 E 710	DW-2	H	Flash Tube	150	500	5.95
78 E 703	FA-101	J	Reflector for DX	.....	.....	2.69
78 E 704	FA-105	J	Reflector for DW-2	.....	.....	3.43
78 E 702	FA-102	.....	Adapt. for Ed. bases	.....	.....	2.55



BUILD YOUR OWN HIGH-SPEED PHOTOFLASH UNITS WITH THESE ESSENTIALS

CAPACITORS

SPRAGUE

K Type FF-1 625 Mfd. Capacitor. 450 volts DC working. Low-leakage electrolytic for dry battery photoflash service. Nominal rating 53 w.s. Shpg. wt., 1¼ lbs. **15 L 725. NET EACH.....13.23**

L Type PQ Capacitors. Combine maximum dependability with very compact size. Rated, 2500 v., except Type 425 (4000 v.).

Stock No.	Type	Mfd	W-S	Lbs.	NET
15 L 730	2510	10	31	1¾	10.00
15 L 732	2525	25	78	4¼	15.58
15 L 733	2535	35	109	6	19.11
15 L 729	425	25	200	7¼	24.99

Type 2TM-S5 Molded Tubular Capacitor. 200 v. at .05 mfd. ¾x1¼". Shpg. wt., 8 oz. **15 L 121. NET.....15c**

CORNELL-DUBILIER

M Type GKG T High-Voltage Oil-Filled. High dielectric photoflash capacitors. Impregnated and filled with Dynakol "G."

No.	Type	Mfd	W-S	DCWV	Lbs.	NET
14 L 480	1A01	25	50	2000	4½	11.17
14 L 481	1A02	15	50	2500	4¼	10.00
14 L 483	104	32	100	2500	6	21.76

N Low-Voltage Types. Type FB10063 has aluminum can with cardboard sleeve. Type FW10005 has bakelite case.

No.	Type	Mfd	Volts	W-S	Lbs.	NET
14 L 841	FB10063	200	450	20	1¼	4.03
14 L 842	FW10005	200	500	25	1¼	6.17

MALLORY LOW-VOLTAGE TYPE

P Type HC 45003. An excellent low-voltage electrolytic for use in photoflash units. Capacity, 300 mfd at 450 volts working. Size, 2¼x3¾". Shpg. wt., 1 lb. **17 L 820. NET.....6.17**

ILLINOIS UMC

R Highly efficient, dependable capacitors. All units have very low leakage current. Av. shpg. wt., 1¼ lbs.

Stock No.	Type	Mfd	W-S	Volts	NET
10 L 579	52345A	525	53	450	13.23
10 L 581	60045	600	60	450	17.64
10 L 578	100030A	1000	45	300	17.64

TRANSFORMERS

THORDARSON

S Type 22 R44. Ignition transformer. For high-pressure 3-electrode tubes. Pri., 200 volt DC discharge from .25 to 5 mfd. condenser. Sec., 15,000 v. peak. Size, 2¼x1½x1¼". Shpg. wt., 8 oz. **63 G 722. NET.....4.90**

S Type 22 R41. Pri., 4 volts from vib. at 115 cyc. or higher. Sec., 450 volts DC or 900 volts DC at 15 ma. Mtg. ctrs., 2½". 2½x2½x 2¾". Shpg. wt., 1¼ lbs. **63 G 723. NET.....3.26**

T 22 R42. Open frame type with leads. Pri.: 117 v., 60 cycle. AC. Sec. for supply delivering 2250 volts DC at 1.5 ma.; sec. No. 2, 2.5 volts AC at 1.75 amps. Size, 4x2½x2½". 3¾" mtg. centers. Shpg. wt., 2 lbs. **63 G 720. NET.....6.47**

T 22 R43. Pri.: 117 volts, 60 cycle, AC or 4-volt vibrator. Sec., 1100 volts AC at 1.5 ma. Delivers 2250 volts in voltage doubler circuit. Size, 2½x3¾x2¾"; 2½" mtg. centers. Shpg. wt., 1½ lbs. **63 G 721. NET.....8.17**

STANCOR

W Model P-6425. Power transformer for AC electronic photoflash units. Low output voltage for greater safety factor. Has 105/115/125 volt 60-cycle primary. Charges 1050 mfd. capacitor to 450 volts DC, through a half-wave selenium rectifier. 2½x2½x2". Mtg. centers, 2¾". Shpg. wt., 1½ lbs. **64 G 445. NET.....3.43**

Type P-6426. Trigger coil for P-6425 transformer. ¾" long, ¾" diameter. Replaces G. E. 86 G 41 trigger coil. Shpg. wt., 3 oz. **64 G 144. NET.....1.64**

UTC

X Type PF-1. Primary for 115 v., 50-60 cycles. Secondary supplies 2200 v. DC when used with proper rectifier, and condensers up to 100 mfd. Transformer is compound-sealed in 2¼x2¾x2¼" case. Shpg. wt., 2½ lbs. **62 G 230. NET.....8.23**

Type PF-3. Trigger transformer for electronically fired circuit. 15 kv rating. Size: 3" long, ¾" diameter. Shpg. wt., 6 oz. **62 G 232. NET.....5.88**

COMPONENTS

RECTIFIER, VIBRATORS, RELAY

Type 1013. Federal Telegraph & Radio Rectifier. Designed for use in photoflash storage battery chargers. Delivers 700-ma output at 18 volts. Shpg. wt., 4 oz. **4 A 604. NET.....66c**

Type W1601/W859 Mallory Vibrator. Interrupter type designed for photoflash applications. 4-prong base. 4-volt rating. Replaces type W659. Tubular can: 1½" diameter, 27/8" long. Shpg. wt., 8 oz. **56 P 118. NET.....2.88**

Type FA-106. Sprague Vibrator. (Same as Oak V6815). For 225 to 450 v. voltage doubler power supplies. 4 volts; 4 amp. 7-prong base. 2½x1½". Shpg. wt., 8 oz. **78 E 706. NET.....8.33**

Type FA-103. Sprague Relay. Synchronization delay relay. Provides 5 to 25 millisecond delay. Designed for operation with 3 to 4½-volt battery flashgun. Shpg. wt., 8 oz. **78 E 701. NET.....3.43**

PHOTOFLASH HANDBOOKS

Illinois Electronic Flash Handbook. Handbook and construction manual. Covers 3 photoflash units: low-voltage battery-operated, low-voltage AC-battery and standard 450 v. AC-battery. Each construction article includes circuit diagram and parts list; latter two also have interior and exterior views of completed units. 8 pages. Size, 8½x11". **37 K 191. Postpaid in U.S.A.....50c**

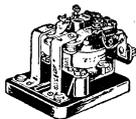
Sprague C703 Electronic Flash Handbook. A popular handbook containing details on the assembly of two battery-operated, high-speed electronic flash units, as well as a flash unit for AC operation. Includes photographs showing parts placement, and easy-to-follow instructions. Excellent for the amateur or professional photographer. 15 pages. Size, 8½x11". **37 K 078. Postpaid in U.S.A.....35c**

Thordarson Booklet "Universal Power Pack for High-Speed Electronic Photoflash Tubes". Shows how to build your own reliable high-speed photoflash tube power pack. For amateur and professional photographers. Versatile—may be operated from 117 v. A.C. or from self-contained batteries. Booklet includes complete circuit diagram and detailed parts list. 8 pages. Size, 7x9¾". **37 K 028. Postpaid in U.S.A.....15c**

Potter and Brumfield Relays

PR HEAVY-DUTY POWER RELAYS

For motor starting up to 1 HP, heater loads up to 20 amps, remote break-in control of transmitters, etc. Clean wiping contacts rated at 15 amps except *rated at 20 amps. AC coils for 60 cycles. Operating power, 7 to 10 volt-amps. Sizes: PR3, PR5: 2 1/2 x 2 1/2 x 2 1/2"; PR7: 2 5/8 x 2 1/2 x 2 1/2"; PR11: 3 1/2 x 2 1/2 x 2 1/2". All AC types U.L. Approved. Av. shpg. wt., 12 oz.



Stock No.	Mfr's Type	Coil Volts	Action	Norm. Pos.	NET EACH			
					1-24	25-50	51-74	75-99
75 P 846	PR3AY	6 AC	SPST*	Open	3.95	3.75	3.55	3.16
75 P 847	PR5AY	6 AC	SPDT	Open	4.15	3.94	3.73	3.32
75 P 848	PR7AY	6 AC	DPST	Open	4.65	4.42	4.19	3.72
75 P 849	PR11AY	6 AC	DPDT	Open	6.15	5.84	5.53	4.92
75 P 878	PR5AY	12 AC	SPDT	Open	4.15	3.94	3.73	3.32
75 P 879	PR7AY	12 AC	DPST	Open	4.65	4.42	4.19	3.72
75 P 961	PR3AY	24 AC	SPST*	Open	3.95	3.75	3.55	3.16
75 P 962	PR5AY	24 AC	SPDT	Open	4.15	3.94	3.73	3.32
75 P 963	PR7AY	24 AC	DPST	Open	4.65	4.42	4.19	3.72
75 P 964	PR11AY	24 AC	DPDT	Open	6.15	5.84	5.53	4.92
75 P 600	PR3AY	115 AC	SPST*	Open	3.95	3.75	3.55	3.16
75 P 602	PR5AY	115 AC	SPDT	Open	4.15	3.94	3.73	3.32
75 P 603	PR7AY	115 AC	DPST	Open	4.65	4.42	4.19	3.72
75 P 603	PR11AY	115 AC	DPDT	Open	6.15	5.84	5.53	4.92
75 P 652	PR3AY	230 AC	SPST*	Open	4.30	4.08	3.87	3.44
75 P 966	PR5AY	230 AC	SPDT	Open	4.55	4.32	4.09	3.64
75 P 654	PR7AY	230 AC	DPST	Open	5.05	4.79	4.54	4.04
75 P 655	PR11AY	230 AC	DPDT	Open	6.55	6.22	5.89	5.24
76 P 508	PR11D	6 DC	DPDT	Open	6.15	5.84	5.53	4.92
76 P 509	PR3D	12 DC	SPST*	Open	3.95	3.75	3.55	3.16
76 P 510	PR5D	12 DC	SPDT	Open	4.15	3.94	3.73	3.32
76 P 511	PR7D	12 DC	DPST	Open	4.65	4.42	4.19	3.72
76 P 512	PR11D	12 DC	DPDT	Open	6.15	5.84	5.53	4.92
76 P 513	PR7D	24 DC	DPST	Open	4.65	4.42	4.19	3.72
76 P 514	PR11D	24 DC	DPDT	Open	6.15	5.84	5.53	4.92
75 P 968	PR3D	110 DC	SPST*	Open	4.55	4.32	4.09	3.64
75 P 969	PR5D	110 DC	SPDT	Open	4.75	4.51	4.27	3.80
75 P 970	PR7D	110 DC	DPST	Open	5.25	4.98	4.72	4.20
75 P 971	PR11D	110 DC	DPDT	Open	6.75	6.41	6.07	5.40

MR MEDIUM-DUTY POWER RELAYS

Compact relays designed for general-purpose applications. Silver contacts rated at 8 amps except *rated 10 amps. AC coils draw 1-5 VA; DC, 1.5 watts. Size: SP units, 1 1/2 x 1 1/2 x 2 3/8"; DP units, 2 x 2 3/8 x 2 1/2"; 3P units, 1 1/2 x 2 3/8 x 2 1/2". Mfg. to two 3/8" holes on 2 1/2" centers for SP and 3P units, 2 1/4" centers for DP units. Av. shpg. wt., 8 oz.



Stock No.		Mfr's Type	Action	Norm. Pos.	6 AND 24 VOLTS AC			
6 V. AC	24 V. AC				1-24	25-50	51-74	75-99
75 P 975	75 P 978	MR3A	SPST*	Open	3.30	3.13	2.97	2.64
75 P 976	75 P 979	MR5A	SPDT	Open	3.00	2.85	2.70	2.40
75 P 977	75 P 980	MR11A	DPDT	Open	4.20	3.99	3.78	3.36
75 P 978	75 P 981	MR14A	3PDT	Open	5.05	4.79	4.54	4.04

Stock No.	Mfr's Type	Action	Norm. Pos.	115 VOLTS AC			
				1-24	25-50	51-74	75-99
75 P 665	MR3A	SPST*	Open	3.30	3.13	2.97	2.64
75 P 614	MR5A	SPDT	Open	3.00	2.85	2.70	2.40
75 P 616	MR11A	DPDT	Open	4.20	3.99	3.78	3.36
75 P 972	MR14A	3PDT	Open	5.05	4.79	4.54	4.04

Stock No.	Mfr's Type	Action	Norm. Pos.	230 VOLTS AC			
				1-24	25-50	51-74	75-99
75 P 657	MR5A	SPDT	Open	3.40	3.23	3.06	2.72
75 P 659	MR11A	DPDT	Open	4.50	4.28	4.05	3.60
75 P 974	MR14A	3PDT	Open	5.45	5.17	4.90	4.36

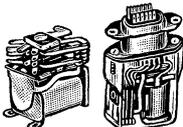
Stock No.		Mfr's Type	Action	Norm. Pos.	6, 12 AND 24 VOLTS DC			
6 V. DC	12 V. DC				24 V. DC	1-24	25-50	51-74
75 P 983	75 P 187	MR3D	SPST*	Open	3.05	2.89	2.74	2.44
75 P 984	75 P 188	MR5D	SPDT	Open	2.75	2.61	2.47	2.20
75 P 985	75 P 189	MR11D	DPDT	Open	4.00	3.80	3.60	3.20
75 P 986	75 P 191	MR14D	3PDT	Open	4.70	4.46	4.23	3.76

MG MINIATURE RELAYS

Sub-miniature, telephone-type relays. Rated 2 amps for 115 VAC resistive load.

D Type. For aircraft, computer, and other applications requiring good shock and vibration characteristics. Mounting: four tapped No. 3-48 holes on 3/8" centers. Max. size, 1/2 x 1/4 x 1 1/2". Av. shpg. wt., 2 oz.

DP Type. Plastic-enclosed. For applications where plug-in units are required, such as chassis-to-chassis connection or uses where quick replacement is necessary. Built with Amphenol 57-10140 plug. Fits Amphenol 57-20140 socket on page 191 (not supplied). Max. size, 2 1/4 x 1 1/4 x 1 1/4". Av. shpg. wt., 3 oz.



Stock No.	Mfr's Type	Coil Volts	Amps	Action	Norm. Pos.	D Type DP Type			
						1-24	25-50	51-74	75-99
75 P 297	MG11D	6v. DC	2	DPDT	Open	4.95	4.70	4.45	3.96
75 P 298	MG11D	12v. DC	2	DPDT	Open	4.95	4.70	4.45	3.96
75 P 299	MG11D	24v. DC	2	DPDT	Open	4.95	4.70	4.45	3.96
75 P 382	MG11D	110v. DC	2	DPDT	Open	5.40	5.13	4.86	4.32
75 P 383	MG17D	6v. DC	1	4PDT	Open	6.60	6.27	5.94	5.28
75 P 384	MG17D	12v. DC	1	4PDT	Open	6.60	6.27	5.94	5.28
75 P 391	MG17D	24v. DC	1	4PDT	Open	6.60	6.27	5.94	5.28
75 P 392	MG17D	110v. DC	1	4PDT	Open	7.05	6.69	6.34	5.64
75 P 393	MG17DP	6v. DC	2	4PDT	Open	11.00	10.45	9.90	8.80
75 P 394	MG17DP	12v. DC	2	4PDT	Open	11.00	10.45	9.90	8.80
75 P 397	MG17DP	24v. DC	2	4PDT	Open	11.00	10.45	9.90	8.80
75 P 398	MG17DP	110v. DC	2	4PDT	Open	11.60	11.02	10.44	9.28

AB APPLIANCE RELAYS

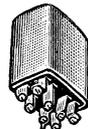
AB series relays are recommended for appliance applications where rugged construction, long life, and quiet operation are required. All units have DPDT silver contacts rated at 10 amps. Mounting: Two No. 8-32 tapped holes on 1 1/4" centers. Overall size: 1 1/2" high, 1 1/2" wide, 3/4" long. *U.L. Approved. Av. shpg. wt., 8 oz.



Stock No.	Mfr's Type	Coil Volts	NET EACH			
			1-24	25-50	51-74	75-99
75 P 399	AB11AY*	6v. AC	5.05	4.79	4.54	4.04
75 P 418	AB11AY*	24v. AC	5.05	4.79	4.54	4.04
75 P 419	AB11AY*	115v. AC	5.05	4.79	4.54	4.04
75 P 448	AB11AY*	230v. AC	5.45	5.17	4.90	4.36
75 P 449	AB11D	110v. DC	5.45	5.17	4.90	4.36

ABC MEDIUM POWER RELAYS

ABC series medium duty power relays with dust covers. Typically used with small motors, industrial controls, and similar applications. All relays have DPDT silver contacts with 10 ampere current rating. Snap-on terminals. Size: 1 1/2 x 3/2 x 2 1/2" high above chassis. Mounting: One No. 8-32 stud 3/8" long. *U.L. Approved. Shpg. wt., 12 oz.



Stock No.	Mfr's Type	Coil Volts	NET EACH			
			1-24	25-50	51-74	75-99
75 P 431	ABC11AY*	6v. AC	6.10	5.80	5.49	4.88
75 P 432	ABC11AY*	24v. AC	6.10	5.80	5.49	4.88
75 P 433	ABC11AY*	115v. AC	6.10	5.80	5.49	4.88
75 P 464	ABC11AY*	230v. AC	6.50	6.17	5.85	5.20
75 P 465	ABC11D	110v. DC	6.50	6.17	5.85	5.20

CA LOW COST HIGH CAPACITY RELAYS

Compact power relays. Have double break, SPST, normally open contacts; 10 amp. rating. Solder terminals. Size: 1 1/2 x 2 1/2 x 1 1/2". Mounting: Two 3/8" dia. holes on 2 1/2" centers. Shpg. wt., 6 oz.



Stock No.	Mfr's Type	Coil Volts	NET EACH			
			1-24	25-50	51-74	75-99
75 P 568	CA3A	6v. AC	2.75	2.61	2.47	2.20
75 P 569	CA3A	24v. AC	2.75	2.61	2.47	2.20
75 P 570	CA3A	115v. AC	2.75	2.61	2.47	2.20

PS SERIES RELAYS

Extremely compact, long-life, medium-duty relays. Ideal for mobile communications, appliances, and similar applications requiring 10 amp. DPDT contacts. Solder-type terminals. Mounting: Four No. 6-32 tapped holes on 1/2 x 1 1/2" centers. Shpg. wt., 8 oz.



Stock No.	Mfr's Type	Coil Volts	NET EACH			
			1-24	25-50	51-74	75-99
75 P 115	PS11A	6v. AC	7.60	7.22	6.84	6.05
75 P 116	PS11A	24v. AC	7.60	7.22	6.84	6.05
75 P 117	PS11A	115v. AC	7.60	7.22	6.84	6.05
75 P 118	PS11A	230v. AC	8.00	7.60	7.20	6.40
76 P 515	PS11D	6v. DC	6.55	6.22	5.89	5.24
76 P 516	PS11D	24v. DC	6.55	6.22	5.89	5.24
75 P 119	PS11D	110v. DC	6.95	6.60	6.25	5.56

SP11 SHOCK-RESISTANT RELAYS

Medium-duty relay for general industrial use, keying circuits, etc. High resistance to shock and vibration. Balanced armature permits mounting in any position. DPDT contacts rated 5 amps for 115 v. 60-cycle non-inductive load. Size: 1 1/2 x 1 1/2 x 1 1/2". Mounting: 2 tapped 6-32 holes on 1 1/2" centers. Shpg. wt., 10 oz.



Stock No.	Mfr's Type	Coil Volts	NET EACH			
			1-24	25-50	51-74	75-99
76 P 517	SP11A	24v. AC	6.20	5.89	5.58	4.96
75 P 926	SP11A	115v. AC	6.20	5.89	5.58	4.96
76 P 518	SP11D	6v. DC	5.95	5.65	5.35	4.76
76 P 519	SP11D	12v. DC	5.95	5.65	5.35	4.76
76 P 520	SP11D	24v. DC	5.95	5.65	5.35	4.76

MB MINIATURE DC POWER RELAYS

Designed for very high current applications. Contact arms are heavy brass with large silver contacts; solder terminals. Rated 60 amps, SPST, double break, normally open. Size, 1 1/2 x 1 1/2 x 1 1/2". Mounting: Four No. 3-48 holes on 3/8 x 3/8" centers. Shpg. wt., 5 oz.



Stock No.	Mfr's Type	Coil Volts	NET EACH			
			1-24	25-50	51-74	75-99
75 P 059	MB3D	6v. DC	5.00	4.75	4.50	4.00
75 P 065	MB3D	12v. DC	5.10	4.84	4.59	4.08
75 P 066	MB3D	24v. DC	5.10	4.84	4.59	4.08
75 P 067	MB3D	110v. DC	5.50	5.22	4.95	4.40

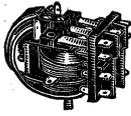
SM SUPER-MIDGET RELAYS

Subminiature relays weighing less than 1 oz. SPDT silver-rhodium contacts rated 1/4 amp, 24 v. DC for 50,000 operations or 1/4 amp, 115 volts 60 cycles AC for 1,000,000 operations. Non-inductive load. Units are hermetically sealed in deep-drawn steel tubes. Have standard 7-pin miniature tube type bases. Size: 3/4" dia., 1 1/2" high above socket. *Current-actuated types for use in plate-circuit applications. Av. shpg. wt., 3 oz.



Potter and Brumfield Relays

GENERAL-PURPOSE, PLATE CIRCUIT AND SENSITIVE RELAYS

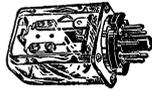


KA GENERAL-PURPOSE RELAYS

Compact, low-cost general-purpose relays. Particularly useful for transmitters, power supply control, remote switching of small motors and solenoids, and for general automation work. All are moisture resistant. Heavy-duty contacts rated at 5 amps. AC coils are for 60 cycles. All AC types U.L. approved. 6-32 mounting stud. 1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 1 $\frac{1}{8}$ " 6 oz.

Stock No.			Type No.	Action	1-24, EACH	25-50, EACH	51-74, EACH	75-99, EACH
6 v. AC	24 v. AC	115 v. AC	KA5AY KA11AY KA14AY	SPDT	3.05	2.89	2.74	2.44
75 P 158	75 P 161	75 P 164		DPDT	3.65	3.47	3.28	2.92
75 P 159	75 P 163	75 P 165		3PDT	4.05	3.85	3.64	3.24
75 P 160	75 P 163	75 P 166						
6 v. DC	12 v. DC	24 v. DC	KA5D KA11D KA14D	SPDT	2.90	2.76	2.61	2.32
75 P 167	75 P 170	75 P 173		DPDT	3.25	3.09	2.92	2.60
75 P 168	75 P 171	75 P 174		3PDT	3.65	3.47	3.28	2.92
75 P 169	75 P 172	75 P 185						

Stock No.	Type No.	Action	1-24, EACH	25-50, EACH	51-74, EACH	75-99, EACH
110 v. DC	KA11D	DPDT	3.85	3.66	3.47	3.08
76 P 522	KA11D	3PDT	4.25	4.04	3.82	3.40

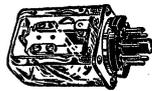


KRP ENCLOSED TYPE RELAYS

Completely enclosed midget relays in high-impact, transparent, polystyrene case. Dust-proof and weather-proof. Plug on end fits standard octal or 11-pin socket (see sockets below). KCP relay listing). Heavy silver contacts rated for 5 amps non-inductive load. 1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 2" Wt., 5 oz.

Stock No.			Type No.	Action	1-24, EACH	25-50, EACH	51-74, EACH	75-99, EACH
6 v. AC	12 v. AC	24 v. AC	KRP5A KRP11A KRP14A	SPDT	5.20	4.94	4.68	4.16
75 P 214	75 P 217	75 P 220		DPDT	5.75	5.46	5.17	4.60
75 P 091	75 P 092	75 P 093		3PDT	7.15	6.79	6.43	5.72
24 v. AC	115 v. AC		KRP5A KRP11A KRP14A	SPDT	5.20	4.94	4.68	4.16
75 P 215	75 P 213	75 P 216		DPDT	5.75	5.46	5.17	4.60
75 P 092	75 P 093	75 P 093		3PDT	7.15	6.79	6.43	5.72

Stock No.			Type No.	Action	1-24, EACH	25-50, EACH	51-74, EACH	75-99, EACH
6 v. DC	12 v. DC	24 v. DC	KRP5D KRP11D KRP14D	SPDT	5.15	4.89	4.63	4.17
75 P 217	75 P 244	75 P 245		DPDT	5.70	5.42	5.13	4.56
75 P 092	75 P 093	75 P 096		3PDT	7.10	6.75	6.39	5.68



KCP ENCLOSED RELAYS

Sensitive plate circuit relays completely enclosed in high-impact, transparent dust-proof and weather-proof polystyrene case. Plugs into standard octal or 11-pin socket (see listing below). Silver contacts rated at 2 amps non-inductive load. Size: 1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 2" high. Shpg. wt., 5 oz.

Stock No.	Type	Action	Ohms	Ma.	1-24, EA.	25-50, EA.	51-74, EA.	75-99, EA.
75 P 287	KCP5	SPDT	2500	7.2	5.60	5.32	5.04	4.48
75 P 288	KCP5	SPDT	5000	5.0	5.70	5.42	5.13	4.56
75 P 289	KCP5	SPDT	10,000	3.0	6.10	5.80	5.49	4.88
75 P 290	KCP11	DPDT	2500	10.0	6.00	5.70	5.40	4.80
75 P 291	KCP11	DPDT	5000	7.2	6.10	5.80	5.49	4.88
75 P 292	KCP11	DPDT	10,000	5.0	6.50	6.18	5.85	5.20
75 P 097	KCP14	3PDT	2500	12.3	7.40	7.03	6.66	5.72
75 P 098	KCP14	3PDT	5000	8.7	7.30	6.93	6.75	6.00
75 P 099	KCP14	3PDT	10,000	6.1	7.90	7.51	7.11	6.32

Amphenol Sockets for KRP and KCP Relays. Type 146-103 octal for all relays except KRP14 and KCP14. Barrier type. Meets N.F.M.A. and U.L. requirements. Convenient screw-type tie points, separated by insulating barriers. Mtg. centers, 1 $\frac{1}{16}$ ". Wt., 5 oz. **96c**

Type 77M1P1 Socket. For KRP14, KCP14 types. Molded bakelite. Mounts in 1 $\frac{1}{2}$ " hole. With retainer ring. Wt., 2 oz. **13c**



LM PLATE CIRCUIT RELAYS

Quality, medium-cost plate circuit relays. For photoelectric control, counting, and similar circuits. Armature spring tension adjustment and adjustable residual screw permits settings for specific voltages or currents. Has $\frac{3}{16}$ " fine silver contacts rated at 5 amperes, 115 volts, 60 cycles, non-inductive load. Sizes: LM5, 2 $\frac{1}{2}$ x 1 $\frac{1}{4}$ x 2 $\frac{1}{8}$ "; LM11, 2 $\frac{3}{8}$ x 2 $\frac{1}{2}$ x $\frac{1}{4}$ ". Av. shpg. wt., 9 oz.

Stock No.	Type	Action	Ohms	Ma.	1-24, EA.	25-50, EA.	51-74, EA.	75-99, EA.
75 P 673	LW5	SPDT	2500	6.3	3.50	3.33	3.15	2.80
75 P 674	LW5	SPDT	5000	4.5	3.70	3.52	3.33	2.96
75 P 675	LW5	SPDT	10,000	3.2	4.00	3.80	3.60	3.20
75 P 682	LM11	DPDT	2500	9.0	5.05	4.80	4.54	4.04
75 P 683	LM11	DPDT	5000	6.3	5.25	4.99	4.72	4.19
75 P 684	LM11	DPDT	10,000	4.5	5.25	5.46	5.17	4.60

LB-5 PLATE CIRCUIT RELAYS

Small, fast-acting units. For any circuit supplying only a few milliwatts of DC. Breakdown, 500 v. rms min. Silver contacts rated at 5 A, 28 v. DC with non-inductive load. Size: 2 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 1 $\frac{1}{8}$ ". Adjusted by bending tail-spring hook. For DC only. Shpg. wt., 5 oz.

Stock No.	Action	Ohms	Ma.	1-24, EA.	25-50, EA.	51-74, EA.	75-99, EA.
75 P 625	SPDT	2500	9	2.35	2.23	2.11	1.88
75 P 626	SPDT	5000	6.3	2.55	2.42	2.29	2.04
75 P 774	SPDT	10,000	4.5	2.70	2.57	2.43	2.16



GA MULTIPLE LEAF RELAYS

A rugged, multiple leaf relay for general circuit and power control applications. Designed to withstand shock and vibration encountered in mobile operation. Very useful for remote power switching. Moisture-resistant coil prevents damage by high humidity. Contacts rated at 5 amps. AC coils are for 60 cycles. Size: 1x1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 3" high. Has tapped core to permit mounting with single 8-32 screw. Shpg. wt., 10 oz.

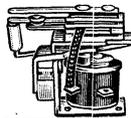
Stock No.	Type No.	Coil Volts	Action	1-24, EACH	25-50, EACH	51-74, EACH	75-99, EACH
75 P 192	GA11A	6 v. AC	DPDT	3.15	2.99	2.83	2.52
75 P 193	GA17A	6 v. AC	4PDT	4.50	4.28	4.05	3.60
76 P 526	GA17A	12 v. AC	4PDT	4.50	4.28	4.05	3.60
75 P 194	GA11A	24 v. AC	DPDT	3.15	2.99	2.83	2.52
75 P 195	GA17A	24 v. AC	4PDT	4.50	4.28	4.05	3.60
75 P 196	GA11A	115 v. AC	DPDT	3.15	2.99	2.83	2.52
75 P 197	GA17A	115 v. AC	4PDT	4.50	4.28	4.05	3.60
75 P 198	GA11D	6 v. DC	DPDT	3.15	2.99	2.83	2.52
75 P 199	GA17D	6 v. DC	4PDT	4.50	4.28	4.05	3.60
75 P 105	GA11D	12 v. DC	DPDT	3.15	2.99	2.83	2.52
75 P 106	GA17D	12 v. DC	4PDT	4.50	4.28	4.05	3.60
75 P 107	GA11D	24 v. DC	DPDT	3.15	2.99	2.83	2.52
75 P 108	GA17D	24 v. DC	4PDT	4.50	4.28	4.05	3.60
76 P 527	GA11D	110 v. DC	DPDT	3.60	3.42	3.24	2.88



KL MULTIPLE-CONTACT RELAYS

Highly versatile midget relays. Ideal for limited space applications. Extra-long actuating coil permits double the ampere turns; provides more power to actuate contacts and maintain 25 grams hold-down pressure. High dielectric phenolic insulation. Fine silver contacts; rated 5 amperes at 115 volts, 60 cycles AC, non-inductive load. AC coils are for 60 cycles. 1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 1 $\frac{1}{8}$ ". Av. shpg. wt., 4 oz.

Stock No.	Type No.	Coil Volts	Action	NET EACH			
				1-24	25-50	51-74	75-99
76 P 528	KL14A	6 v. AC	3PDT	5.00	4.75	4.50	4.00
76 P 529	KL17A	6 v. AC	4PDT	5.90	5.61	5.31	4.72
76 P 530	KL11A	12 v. AC	DPDT	4.45	4.23	4.00	3.56
76 P 531	KL17A	12 v. AC	4PDT	5.90	5.61	5.31	4.72
76 P 532	KL11A	33 v. AC	DPDT	4.45	4.23	4.00	3.56
76 P 533	KL14A	115 v. AC	3PDT	5.00	4.75	4.50	4.00
75 P 218	KL17A	115 v. AC	4PDT	5.90	5.61	5.31	4.72
76 P 534	KL14D	6 v. DC	3PDT	4.80	4.56	4.32	3.84
76 P 535	KL14D	12 v. DC	3PDT	4.80	4.56	4.32	3.84
76 P 536	KL11D	24 v. DC	DPDT	4.30	4.08	3.87	3.44
76 P 537	KL14D	24 v. DC	3PDT	4.80	4.56	4.32	3.84
76 P 220	KL17D	24 v. DC	4PDT	5.60	5.32	5.04	4.48
76 P 538	KL17D	110 v. DC	4PDT	6.20	5.89	5.58	4.96



MP SNAP ACTION RELAYS

Snap action relays designed for starting split-phase capacitor-type motors of up to 1 $\frac{1}{2}$ -hp capacity. SPDT silver contacts are rated at 25 amps—large enough for many applications. AC coils are for 60 cycles. Mounts with 4—6—32 screws, $\frac{3}{4}$ x $\frac{1}{8}$ " ctrs. Size: 1 $\frac{1}{2}$ x 2 $\frac{1}{4}$ x $\frac{1}{4}$ ". Av. shpg. wt., 4 oz.

Stock No.	Type	Volts	1-24, EA.	25-50, EA.	51-74, EA.	75-99, EA.
75 P 005	MP5A	6VAC				
75 P 006	MP5A	24VAC	5.70	5.42	5.13	4.56
75 P 007	MP5A	115VAC				
75 P 008	MP5A	230VAC	5.95	5.65	5.35	4.76
75 P 009	MP5D	110VDC	6.50	6.18	5.85	5.20



RS5D LIGHTWEIGHT RELAYS

A low-cost, lightweight, sensitive DC relay. Ideal for controlling light dimmers, model airplanes, electronic toys, and many other applications. SPDT contacts rated 2 amp at 115 v. AC or 28 v. DC. Mount with 2—4—40 screws. Size: 1x1 $\frac{1}{2}$ x 2 $\frac{3}{8}$ ". Av. wt., 3 oz.

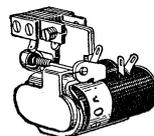
Stock No.	Volts	Ohms	Ma.	1-24, EA.	25-50, EA.	51-74, EA.	75-99, EA.
75 P 896	6	335	.....	2.50	2.38	2.25	2.00
75 P 897	.....	2500	5.0	2.70	2.57	2.43	2.16
75 P 898	.....	5000	3.5	3.00	2.85	2.70	2.40
75 P 899	.....	10,000	2.5	3.45	3.28	3.10	2.76



PW HERMETICALLY SEALED RELAYS

Precision, lightweight DC relays. Sealed in air-tight brass cans. Vibration-proof for mobile or other applications. Mount in 7-pin min. socket. Silver SPDT contacts are rated at 2 amps. Size: $\frac{3}{4}$ " dia.; 1 $\frac{1}{16}$ " high (above socket). *Plate circuit type. Wt., 2 oz.

Stock No.	Type	Volts	Ohms	Ma.	1-24, EA.	25-50, EA.	51-74, EA.	75-99, EA.
75 P 018	PW5DS	6	202	.....	10.25	9.74	9.23	8.20
75 P 019	PW5DS	12	810	.....	10.25	9.74	9.23	8.20
75 P 027	PW5DS	24	3240	.....	10.25	9.74	9.23	8.20
75 P 028	PW5LS	*	5000	2.8	10.60	10.07	9.54	8.48
75 P 029	PW5LS	*	10,000	2.8	11.00	10.45	9.90	8.80



S5SD SUPER-SENSITIVE DC RELAY

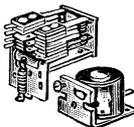
An ultra-sensitive 1 ma relay. SPDT contacts are pure silver. Rated at 2 amps 115 v. AC or 28 v. DC non-inductive load. Precision-balanced armature and pin hinge assembly pivot in needle-point bearings—virtually friction-free movement. Coil resistance, 10,000 ohms. Dual series coils with varnished windings. Mounting is by 2—6—32 holes on 2 $\frac{3}{8}$ " centers. 1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 1 $\frac{1}{8}$ ". Wt., 8 oz.

75 P 844, 1-24, EACH	.....	12.00	25-50, EACH	.....	11.40
51-74, EACH	.....	10.80	75-99, EACH	.....	9.60

Potter and Brumfield Relays

GP "PIC & BUILD" SERIES

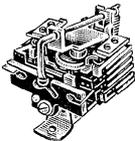
Flexibility—keynote of Potter & Brumfield's new "Pic & Build" series of separate coils and switches! Units available can be combined to produce twenty different relays, each easily converted to an alternative sensitivity or switching arrangement in minutes. Perfect for prototypes, testing relay requirements, experimenters and industrial laboratories, or school use. Size of assembled relay and general specifications same as GA series on page 218. Av. shpg. wt., 4 oz.



Stock No.	Mfr's Type	Item	NET EACH			
			1-24	25-50	51-74	75-99
76 P 333	GPA	6v. AC Coil	1.55	1.47	1.39	1.24
76 P 539	GPA	12v. AC Coil	1.55	1.47	1.39	1.24
76 P 334	GPA	24v. AC Coil	1.55	1.47	1.39	1.24
76 P 335	GPA	115v. AC Coil	1.55	1.47	1.39	1.24
76 P 336	GPA	230v. AC Coil	2.00	1.90	1.80	1.60
76 P 337	GPD	6v. DC Coil	2.00	1.90	1.80	1.60
76 P 338	GPD	12v. DC Coil	2.00	1.90	1.80	1.60
76 P 339	GPD	24v. DC Coil	2.00	1.90	1.80	1.60
76 P 40	GCD	1000-ohm Coil	3.00	2.85	2.70	2.40
76 P 341	GPD	2500-ohm Coil	1.45	1.37	1.30	1.16
76 P 342	GPD	10000-ohm Coil	2.00	1.90	1.80	1.60
76 P 343	GP11	DPDT Switch	2.80	2.66	2.52	2.24
76 P 344	GP17	4PDT Switch	2.80	2.66	2.52	2.24

TYPE PC IMPULSE RELAYS

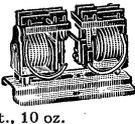
Compact, pulse-operated relay. Armature and pusher assembly operate phenolic rocker switching from one contact relay to the other on alternate pulses. For on-off or reversing applications. Pulses may be as short as 30 milliseconds at 5 cps. Gold-plated silver contacts, rated 10 amps at 115 volts AC, resistive load. Size: 1 1/2 x 2 1/2 x 2 3/4". AC is for 50-60 cycles. Shpg. wt., 10 oz.



Stock No.	Mfr's Type	Action	Coil Volts	NET EACH			
				1-24	25-50	51-74	75-99
76 P 504	PC11A	DPDT	6AC	5.25	4.98	4.72	4.20
76 P 505	PC17A	4PDT	6AC	7.25	6.88	6.52	5.80
76 P 506	PC17A	4PDT	12AC	5.25	4.98	4.72	4.20
76 P 503	PC17A	4PDT	24AC	7.25	6.88	6.52	5.80
76 P 500	PC11A	DPDT	115AC	5.25	4.98	4.72	4.20
76 P 501	PC17A	4PDT	115AC	7.25	6.88	6.52	5.80
76 P 506	PC11D	DPDT	24DC	5.10	4.84	4.59	4.08
76 P 507	PC17D	4PDT	24DC	7.10	6.74	6.39	5.68

TYPE KB LATCHING RELAYS

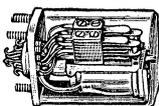
Ideal for memory work and overload applications. One coil operates relay to set latch; other coil releases it. Operates on momentary impulse to either coil. Release and trip coils must be used with same voltage. Size: 2 1/2 x 1 1/2 x 2 1/2". High. Mounts with 2-3/32" holes on 1 1/2" centers. Contacts rated at 5 amperes, except *10 amps. †Indicates U.L. Approved. Shpg. wt., 10 oz.



Stock No.	Mfr's Type	Action	Coil Volts	NET EACH			
				1-24	25-50	51-74	75-99
75 P 126	KB17AY	4PDT†	6 AC	10.00	9.50	9.00	8.00
76 P 540	KB17AY	4PDT†	12 AC	10.00	9.50	9.00	8.00
76 P 125	KB17AY	4PDT*	24 AC	10.00	9.50	9.00	8.00
76 P 541	KB17AG	4PDT*	24 AC	10.10	9.59	9.09	8.08
76 P 542	KB23AY	6PDT†	24 AC	12.00	11.40	10.80	9.60
76 P 124	KB17AY	4PDT†	115 AC	10.00	9.50	9.00	8.00
76 P 543	KB17AG	4PDT†	115 AC	10.10	9.59	9.09	8.08
76 P 544	KB23AY	6PDT†	115 AC	12.00	11.40	10.80	9.60
75 P 129	KB17D	4PDT	6 DC	9.00	8.55	8.10	7.20
76 P 545	KB17D	4PDT	12 DC	9.00	8.55	8.10	7.20
76 P 128	KB17D	4PDT	24 DC	9.00	8.55	8.10	7.20
75 P 127	KB17D	4PDT	110 DC	10.20	9.69	9.18	8.16

MH MINIATURE TELEPHONE RELAYS

Extremely fast acting, long life telephone-type relays. Open AC models are designed for intermittent duty only. Sealed AC models operate with a built-in rectifier. Units are 4PDT*, except †DPDT, 4.5 ma current actuated; 10,000 ohm coil resistance. Contacts rated at 5 amps; break-before-make. †Indicates hermetically sealed in metal housing. Sizes: Open type, 1 1/2 x 3/4 x 1 1/4"; sealed type, 1 1/4 x 1/2 x 3/4". Mounting: MH11L model has a No. 5/16" stud 1/2" long, plus a locating boss. All other open models have four No. 3-48 holes on 3/8 x 3/8" centers. Header in glass with solder terminals; minimum leakage resistance of 10,000 megohms at 50% humidity. Av. Shpg. wt., 6 oz.



Stock No.	Mfr's Type	Coil Volts	NET EACH			
			1-24	25-50	51-74	75-99
75 P 937	MH17D	6v. DC	5.75	5.46	5.18	4.60
75 P 936	MH17D	24v. DC	5.75	5.46	5.18	4.60
75 P 293	MH11L*	.....	5.75	5.46	5.18	4.60
75 P 935	MH17DM†	6v. DC	11.60	11.02	10.44	9.28
75 P 941	MH17AMR†	24v. AC	25.00	23.75	22.50	20.00
75 P 939	MH17DM†	24v. DC	11.60	11.02	10.44	9.28
75 P 942	MH17AMR†	115v. AC	19.00	18.05	17.10	15.20
75 P 294	MH11LM*	.....	9.70	9.21	8.73	7.76

TYPE AF11A 400-CYCLE RELAY

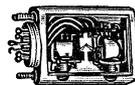
Rugged armature-type relay. Coil operates on 400-cycle 115-v. power; used in aircraft. Contacts rated 5 amps at 115 v. 60 cycle resistive. Has 2-6-32 holes on 7/8" mtg. centers. 1 1/2 x 1 1/2 x 2". Shpg. wt., 4 oz.



76 P 546, 1-24, NET EACH... 7.95
25-50, EA... 7.55 51-74, EA... 7.16 75-99, EA... 6.36

KE SERIES SUBMINIATURES

Sub-miniature latching relay with mechanical latch and electric release. Operates on momentary impulse to either coil. For intermittent use only. Mounting: 3 No. 6-32 studs. Pure silver contacts, rated 2 amps. Useful where relay operation is based upon single pulse signals, or where it is preferable that relay coil draws no current while remaining in "closed" periods, especially for considerable length of time. Ideal for applications requiring a latching relay of small size 1 1/2 x 1 1/2 x 2 1/2". *Sealed. Shpg. wt., 6 oz.



Stock No.	Mfr's Type	Action	NET EACH					
			1-24	25-50	51-74	75-99		
76 P 345	76 P 346	76 P 347	KE17D	4PDT	9.00	8.55	8.10	7.20
76 P 349	76 P 350	76 P 351	KE17DM*	4PDT	9.50	18.32	17.55	15.60
76 P 353	76 P 354	76 P 355	KE23D	6PDT	11.50	10.32	9.35	9.20
76 P 357	76 P 358	76 P 359	KE23DM*	6PDT	25.00	23.75	22.50	20.00

KM SERIES SUBMINIATURES

Sub-miniature relay for multiple switching applications. Relay will simultaneously switch one, two or three electrically actuated devices; exceptionally easy to install and wire into circuit. Especially well suited for use where size and weight are critical factors; weight is only 7/8 oz. per relay. Contacts rated 2 amps. Solder lug terminals are all located at one end of relay. Size, 1 1/2 x 3/4 x 3/4". Shpg. wt., 1 oz.



Stock No.	Mfr's Type	Action	NET EACH					
			1-24	25-50	51-74	75-99		
76 P 361	76 P 362	76 P 363	KM5D	SPDT	3.20	3.04	2.88	2.56
76 P 365	76 P 366	76 P 367	KM11D	DPDT	3.50	3.32	3.15	2.80
76 P 369	76 P 370	76 P 371	KM14D	3PDT	4.05	3.84	3.64	3.24

KT SERIES ANTENNA SWITCHING RELAYS

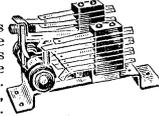
Precision antenna switching relay useful for switching antenna for use by both receiver and transmitter; specially designed for efficient use in RF applications; glass-base insulation for minimum RF loss. Used to switch 300-ohm line. Mounting: One No. 6-32 stud. Fine silver contacts, rated 5 amps. Size, 1 1/2 x 1 1/2 x 1 1/2". Shpg. wt., 2 oz.



Stock No.	Mfr's Type	Coil Volts	Action	NET EACH			
				1-24	25-50	51-74	75-99
76 P 373	KT11A	6 AC	DPDT	3.35	3.18	3.01	2.68
76 P 374	KT11A	115 AC	DPDT				
76 P 375	KT11D	6 DC	DPDT				
76 P 376	KT11D	12 DC	DPDT				

AP RATCHET IMPULSE RELAYS

An extremely fast acting relay for applications requiring on-off or reversing action on alternate impulses. Gives positive operation on impulses as short as 20 ms. Stop mechanism assures accurate operation on each impulse, regardless of speed. Intermittent duty. Contacts are 3/64" fine silver, rated 5 amps. Coils are wound on molded bobbins. Phenolic cams, hardened steel pawl and ratchet with pin hinged armature. Tinned solder terminals. Mounting: Three 5/32" diameter holes on 3/8" x 7/8" triangular centers. Size: 2 1/2 x 2 1/4 x 3/4". Weight, 7 oz. AC are for 50-60 cycles. Shpg. wt., 12 oz.



Stock No.	Mfr's Type	Coil Volts	Action	NET EACH			
				1-24	25-50	51-74	75-99
75 P 997	AP11A	6 AC	DPDT	7.90	7.51	7.11	6.32
75 P 998	AP11A	6 AC	4PDT	9.50	9.03	8.55	7.60
76 P 581	AP11A	12 AC	DPDT	7.90	7.51	7.11	6.32
76 P 582	AP17A	12 AC	4PDT	9.50	9.03	8.55	7.60
75 P 995	AP11A	24 AC	DPDT	7.90	7.51	7.11	6.32
75 P 996	AP17A	24 AC	4PDT	9.50	9.03	8.55	7.60
75 P 993	AP11A	115 AC	DPDT	7.90	7.51	7.11	6.32
75 P 994	AP17A	115 AC	4PDT	9.50	9.03	8.55	7.60
76 P 583	AP11A	230 AC	DPDT	8.30	7.89	7.47	6.64
76 P 584	AP17A	230 AC	4PDT	9.90	9.40	8.91	7.92
76 P 585	AP11D	6 DC	DPDT	7.90	7.51	7.11	6.32
76 P 586	AP17D	6 DC	4PDT	9.50	9.03	8.55	7.60
76 P 587	AP11D	12 DC	DPDT	7.90	7.51	7.11	6.32
76 P 588	AP17D	12 DC	4PDT	9.50	9.03	8.55	7.60
75 P 999	AP11D	24 DC	DPDT	7.90	7.51	7.11	6.32
75 P 778	AP17D	24 DC	4PDT	9.50	9.03	8.55	7.60
76 P 589	AP11D	110 DC	DPDT	8.50	8.08	7.66	6.80
76 P 590	AP17D	110 DC	4PDT	10.10	9.59	9.09	8.08

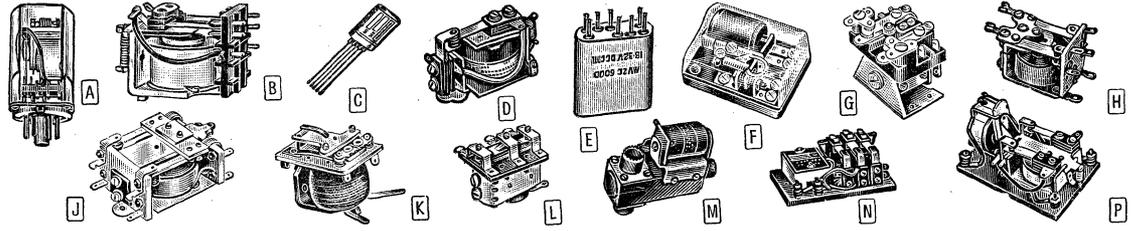
LATCHING AND NON-LATCHING RELAYS

New exceptionally rugged, sub-miniature, 24 volt DC relays. SC non-latching type, and SL latching type. Both are hermetically sealed and designed to withstand extreme shock and vibration (Shock, 100g., Vibration, 20g. 55 to 2000 cps.). The high shock and vibration resistance in the non-latching SC type is made possible by the permanent magnet in the structure. Temperature range: -65 C. to 125° C. Size, .795 x .359 x .875". Weight, 3/4 oz. Contact pressure: SC—16 grams min.; SL—20 grams min. Breakdown voltage, 1000 v. rms. min. between coil elements and ground. Insulation resistance, 10,000 megohms, min. Coil circuit on SC type polarized; positive terminals marked with a red dot. Gold-plated palladium contacts, rated 2 amps at 25 volts DC; 1 amp at 115 v. DC resistive. Available in choice of mountings: *Plug-in for printed circuit or receptacle; †Shoulder bracket with two .104x.136" holes on 1.062" centers; §Mounting plate with four .125" diameter holes on 1.062x.281" centers. Shpg. wt., 2 oz.



Stock No.	Mfr's Type	Mounting	NET EACH			
			1-24	25-50	51-74	75-99
76 P 591	SC11D	Plug-in*	15.75	14.96	14.17	12.60
76 P 592	SC11DA	Bracket†	15.75	14.96	14.17	12.60
76 P 593	SL11DB	Bracket†	17.25	16.46	15.67	14.10
76 P 594	SL11D	Plug-in*	7.25	6.39	5.52	4.80
76 P 595	SL11DA	Bracket†	17.25	16.39	15.52	13.80
76 P 596	SL11DB	Plate§	17.25	16.39	15.52	13.80

Advance Quality Relays



A B Type GH General Purpose Midget Relays. Precision-built midget relays. The small size of these relays allows their installation in equipment where space is a problem. Types GHP and GHE have dust-proof, clear polystyrene covers and octal plug bases; except #have 11-pin base (Fig. A). Types GHA and GHB are open with solder type terminals (Fig. B). Type GHB rated 10 amps at 115v. AC with resistive load; GHP, GHE and GHA rated 5 amps a 115 v. AC with resistive load. Type GHE is current actuated and can be used as plate circuit relays. All others are voltage actuated. Size: Types GHA and GHB $1\frac{1}{2}x1\frac{1}{2}x1\frac{1}{4}$; others are $1\frac{1}{2}x2\frac{1}{2}$ square by $2\frac{1}{8}$ inch chassis. Av. shpg. wt., 4 oz.

Stock No.	Mfr's Type	Volts	Action	1-24, EA.	25-49, EA.	50-99, EA.
76 P 447	GHA/1C/6VA	6 v. AC	SPDT	3.05	2.90	2.75
76 P 451	GHA/2C/6VA	6 v. AC	DPDT	3.55	3.37	3.20
76 P 470	GHB/2C/6VA	6 v. AC	4PDT	4.05	3.85	3.65
76 P 455	GHA/3C/6VA	6 v. AC	3PDT	4.05	3.85	3.65
76 P 473	GHB/3C/6VA	6 v. AC	3PDT	4.60	4.37	4.14
76 P 459	GHA/1C/6VD	6 v. DC	SPDT	3.05	2.90	2.75
76 P 461	GHA/2C/6VD	6 v. DC	DPDT	3.35	3.18	3.02
76 P 476	GHA/3C/6VD	6 v. DC	DPDT	3.75	3.61	3.42
76 P 464	GHA/3C/6VD	6 v. DC	3PDT	4.05	3.36	3.38
76 P 478	GHB/3C/6VD	6 v. DC	3PDT	4.40	4.18	3.96
76 P 462	GHA/2C/12VD	12 v. DC	DPDT	3.35	3.18	3.02
76 P 465	GHA/3C/12VD	12 v. DC	3PDT	3.75	3.56	3.38
76 P 448	GHA/1C/24VA	24 v. AC	SPDT	3.05	2.90	2.75
76 P 471	GHB/2C/24VA	24 v. AC	DPDT	4.05	3.85	3.65
76 P 463	GHA/2C/24VD	24 v. DC	DPDT	3.35	3.18	3.02
76 P 466	GHA/3C/24VD	24 v. DC	3PDT	3.75	3.56	3.38
76 P 449	GHA/1C/115VA	115 v. AC	SPDT	3.05	2.90	2.75
76 P 487	GHP/1C/115VA	115 v. AC	SPDT	5.10	4.85	4.55
76 P 453	GHA/2C/115VA	115 v. AC	DPDT	3.55	3.37	3.20
76 P 472	GHB/2C/115VA	115 v. AC	DPDT	4.05	3.85	3.65
76 P 489	GHP/2C/115VA	115 v. AC	DPDT	5.75	5.46	5.18
76 P 457	GHA/3C/115VA	115 v. AC	3PDT	4.05	3.35	3.65
76 P 475	GHB/3C/115VA	115 v. AC	3PDT	4.60	4.37	4.14
76 P 490	GHP/3C/115VA*	115 v. AC	3PDT	7.05	6.70	6.35

Stock No.	Mfr's Type	Ohms	Ma.	Action	1-24, EA.	25-49, EA.	50-99, EA.
76 P 491	GHE/2C/2500D	2500	10.0	DPDT	6.30	5.99	5.67
76 P 492	GHE/2C/5000D	5000	7.2	DPDT	6.70	6.37	6.03
76 P 493	GHE/2C/10000D	10000	5.0	DPDT	7.10	6.75	6.39

C Type NM Ultra-Miniature DC Relays. Hermetically sealed in transistor-type nitrogen-filled case. Ideal for computers, missiles, printed circuits, etc. Vibration resistance, 10G up to 500 cps; shock to 50G, SPDT contacts rated at $\frac{1}{4}$ amp, 28 v. DC. $\frac{1}{2}x\frac{1}{2}x\frac{1}{8}$ in. Wt., 3 oz.

Stock No.	Type	Ohms	Ma.	1-24, EA.	25-49, EA.	50-99, EA.
76 P 195	NM/1C/50	50	44			
76 P 196	NM/1C/200	200	22			
76 P 197	NM/1C/500	500	14			
76 P 198	NM/1C/1K	1000	10	24.00	22.80	21.60
76 P 199	NM/1C/2K	2000	7			

D Type PC Power-Control Relays. Contacts rated 15 amps, at 115 v. AC non-inductive. DC type draws $2\frac{1}{2}$ watts. AC coils 4.7 VA. Mount by 2, 6-32 holes on 2" cntrs. SP units: $1\frac{1}{2}x1\frac{1}{2}x2\frac{3}{4}$; DP units: $1\frac{1}{2}x1\frac{1}{2}x2\frac{1}{2}$; 3P unit: $1\frac{1}{2}x2\frac{1}{2}x3\frac{1}{2}$. Av. shpg. wt., 8 oz.

Stock No.	Mfr's Type	Action	Volts	1-24, EA.	25-49, EA.	50-99, EA.
76 P 208	PC/1C/6VA	SPDT	6 v. AC	3.95	3.75	3.56
76 P 600	PC/2C/6VA	DPDT	6 v. AC	5.95	5.65	5.36
76 P 601	PC/3C/6VA	3PDT	6 v. AC	8.45	8.05	7.61
76 P 602	PC/1C/24VA	SPDT	24 v. AC	3.95	3.75	3.56
76 P 495	PC/2C/24VA	DPDT	24 v. AC	5.95	5.65	5.36
76 P 200	PC/1C/115VA	SPDT	115 v. AC	3.95	3.75	3.56
76 P 202	PC/2C/115VA	DPDT	115 v. AC	5.95	5.65	5.36
76 P 203	PC/3C/115VA	3PDT	115 v. AC	8.45	8.03	7.61
76 P 494	PC/4C/115VA	4PDT	115 v. AC	10.95	10.40	9.86
76 P 603	PC/1C/220VA	SPDT	220 v. AC	4.95	4.70	4.46
76 P 633	PC/3C/220VA	3PDT	220 v. AC	9.65	9.17	8.69
76 P 604	PC/4C/220VA	4PDT	220 v. AC	12.45	11.83	11.21
76 P 216	PC/1C/6VD	SPDT	6 v. DC	3.95	3.75	3.56
76 P 605	PC/2C/6VD	DPDT	6 v. DC	5.95	5.65	5.36
76 P 606	PC/3C/6VD	3PDT	6 v. DC	8.45	8.03	7.61
76 P 607	PC/2C/12VD	DPDT	12 v. DC	5.95	5.65	5.36
76 P 608	PC/3C/12VD	3PDT	12 v. DC	8.45	8.03	7.61
76 P 609	PC/2C/24VD	DPDT	24 v. DC	5.95	5.65	5.36
76 P 610	PC/3C/24VD	3PDT	24 v. DC	8.45	8.03	7.61
76 P 496	PC/4C/24VD	4PDT	24 v. DC	10.95	10.40	9.86

E Type MV Rotary Action Relays. Precision-built for dependability. Plug-in type, in plain can. Has new spring lead design. Meets test conditions of MIL-R-5757B, MIL-R-6100A and MIL-R-2501B. Their high performance makes them ideal for meeting requirements of severe military and industrial applications. $\frac{1}{2}$ " high, $5\frac{1}{8}$ " wide, $2\frac{3}{8}$ " deep. Contacts rated 2 amps resistive at 115 v., AC or 32 v., DC. Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Ohms	Ma.	1-24, EA.	25-49, EA.	50-99, EA.
76 P 634	MV2C30D-24	30	85	13.60	12.92	12.24
76 P 635	MV2C120D-24	120	44	13.60	12.92	12.24
76 P 636	MV2C60D-24	60	21	13.60	12.92	12.24
76 P 639	MV2C100D-24	100	16	13.60	12.92	12.24
76 P 638	MV2C2500D-24	2500	10	14.40	13.68	12.96
76 P 639	MV2C5000D-24	5000	7	14.40	13.68	12.96
76 P 640	MV2C10,000-24	10,000	5	16.35	15.53	14.72

F Type SV Sensitive Relays. Highly sensitive relays for use in DC circuits. Actuating coils require only 0.005 watt excitation. Easily converted, vernier screws permit changing relay sensitivity to meet specific requirements. Have transparent plastic dust covers. SPDT contacts are rated 1 amp at 115 VAC or 26.5 VDC resistive. Simple, 2-hole mounting. Size, $1\frac{1}{2}x2\frac{1}{2}x\frac{1}{2}$ ". Shpg. wt., 8 oz.

Stock No.	Mfr's Type	Ohms	Ma.	1-24, EA.	25-49, EA.	50-99, EA.
76 P 611	SV/1C/1000D	1000	2.25	8.25	7.84	7.43
76 P 612	SV/1C/1600D	1600	1.80	8.40	7.98	7.56
76 P 613	SV/1C/2200D	2200	1.50	8.40	7.98	7.56
76 P 614	SV/1C/3500D	3500	1.20	8.40	7.98	7.56
76 P 615	SV/1C/5500D	5500	0.95	8.75	8.31	7.88
76 P 616	SV/1C/8700D	8700	0.75	9.40	8.93	8.46
76 P 617	SV/1C/14000D	14,000	0.60	10.10	9.60	9.09
76 P 618	SV/1C/20000D	20,000	0.50	11.10	10.55	9.99
76 P 619	SV/1C/30000D	30,000	0.40	11.85	11.26	10.67
76 P 620	SV/1C/40000D	40,000	0.35	13.50	12.64	11.97

G Type PG General-Purpose Relays. DPDT relays offering high contact pressure to withstand severe vibration and shock. Contacts rated 15 amps at 115 VAC or 26.5 VDC resistive. Size, $1\frac{1}{2}x1\frac{1}{2}x1\frac{1}{2}$ ". Shpg. wt., 6 oz.

Stock No.	Mfr's Type	Volts	1-24, EA.	25-49, EA.	50-99, EA.
76 P 621	PG/2C/6VA	6 v. AC	7.50	7.13	6.75
76 P 622	PG/2C/115VA	115 v. AC	7.50	7.13	6.75
76 P 623	PG/2C/24VD	24 v. DC	6.90	6.56	6.21

H Type AM Midget Antenna Relays. Compact "transmit-receive" antenna relays. For low-power RF use. DPDT contacts rated 2 amps at 115 VAC or 6.5 VDC resistive. Size, $1\frac{1}{2}x1\frac{1}{2}x1\frac{1}{8}$ ". Shpg. wt., 6 oz.

Stock No.	Mfr's Type	Volts	1-24, EA.	25-49, EA.	50-99, EA.
76 P 624	AM/2C/6VA	6 v. AC	4.70	4.47	4.23
75 P 644	AM/2C/115VA	115 v. AC	5.05	4.80	4.55
76 P 625	AM/2C/6VD	6 v. DC	4.20	3.99	3.78
76 P 626	AM/2C/12VD	12 v. DC	4.20	3.99	3.78

J Type AH Antenna Changeover Relay. Low-loss, steatite insulated antenna changeover relays. DPDT contacts carry RF loads up to $\frac{1}{2}$ KW. *Indicates auxiliary SPDT contacts. $1\frac{1}{2}x1\frac{1}{2}x2\frac{3}{4}$ ". Shpg. wt., 6 oz.

Stock No.	Mfr's Type	Volts	1-24, EA.	25-49, EA.	50-99, EA.
76 P 627	AH/2C/6VA	6 v. AC	13.00	12.35	11.70
76 P 628	AH/2C/115VA	115 v. AC	13.00	12.35	11.70
76 P 629	AH/2C/115VA*	115 v. AC	14.25	13.54	12.83

K Type MK Miniature Relays. Contacts rated 1 amp, at 115 VAC or 6.5 VDC resistive. Size, $5\frac{1}{8}x4\frac{1}{4}x3\frac{1}{8}$ ". Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Action	Volts	1-24, EA.	25-49, EA.	50-99, EA.
76 P 630	MK/1C/6VD	SPDT	6 v. DC	4.95	4.70	4.46
76 P 631	MK/2C/24VD	DPDT	24 v. DC	5.95	5.65	5.36
76 P 632	MK/2C/5000D	DPDT	5000 ohms	6.95	6.60	6.26

L Type SO Sensitive Relays. Extremely sensitive, adjustable, SPDT DC relays. Feature sensitivity and versatility equal to relays costing three times as much. Standard adjustment is 10 mw, can be adjusted to as low as 2 mw. Max. coil rating, 3 watts. Contacts rated 1.5 amps, 28 v. DC., 115 v. AC resistive. Size, $1\frac{1}{2}x1\frac{1}{2}x1\frac{1}{4}$ ". Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Ohms	Ma.	1-24, EA.	25-49, EA.	50-99, EA.
76 P 261	SO/1C/4000D	4000	1.6	5.85	5.56	5.27
76 P 262	SO/1C/6500D	6500	1.25	6.35	6.03	5.72
76 P 263	SO/1C/10,000D	10,000	1	6.70	6.37	6.03

M Type CB Coaxial Relays. For use with 52-ohm RG cables at RF outputs of up to 800 watts on lines with low SWR. SWR of less than 1.08: 1.00 at 150 mc. SPDT internal contacts directly connected to Amphenol 83-1R connector. *SPDT with external DPDT contacts for auxiliary circuits. $3\frac{1}{2}x1\frac{1}{2}x3\frac{1}{8}$ ". Shpg. wt., 11 oz.

Stock No.	Mfr's Type	Action	Volts	1-24, EA.	25-49, EA.	50-99, EA.
76 P 250	CB/1C/6VD	SPDT	6 v. DC	12.00	11.40	10.80
76 P 251	CB/1C/115VA	SPDT	115 v. AC	12.15	11.54	10.92
76 P 252	CB/1C/24VD	SPDT*	6 v. DC	13.00	12.35	11.70
76 P 254	CB/1C/24VD	SPDT*	115 v. AC	13.25	12.59	11.93

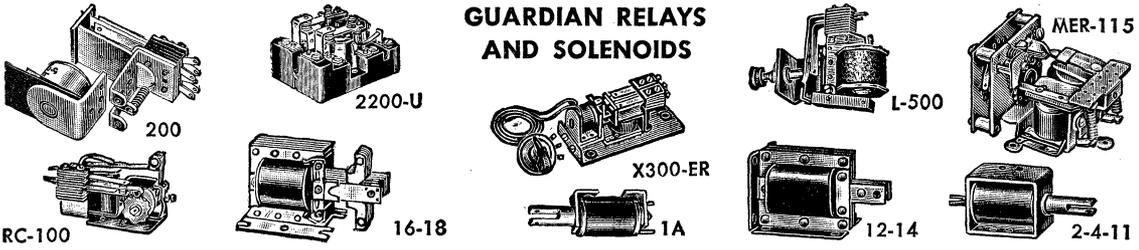
N Type DM/2C/115VA Time Delay Relay. Provides adjustable 5-60 sec. delay. Excellent for use in pre-heating tube filaments, specialized lighting circuits, photographic controls, protection applications, etc. DPDT $\frac{1}{4}$ " silver contacts, rated at 15 amps, 115 v. AC or 26.5 v. DC non-inductive. Recycling time: 8-10 times relaying period. Coil for operation from 115 v., 60 cycle AC. Size, $1\frac{1}{2}x2\frac{1}{2}x3\frac{1}{4}$ ". Shpg. wt., 12 oz.

75 P 642, 1-24, NET EACH 14.35
25-49, EACH 13.63 50-99, EACH 12.92

P Type LE Latching Relays. For industrial and power-control applications—eliminates undesired continuous current consumption by the duty coil. Positive locking. Has reset coil. $\frac{1}{4}$ " contacts rated at 15 amps at 115 v. AC or 26.5 v. DC non-inductive. $2\frac{1}{2}x2\frac{1}{2}x3\frac{1}{8}$ ". Wt., 1 lb.

Stock No.	Type	Action	Volts	1-24, EA.	25-49, EA.	50-99, EA.
76 P 497	LE/2C/115VA	DPDT	115 v. AC	12.00	11.40	10.80
76 P 498	LE/2C/24VD	DPDT	24 v. DC	11.65	11.08	10.48

Guardian, Dow-Key and Amperite Relays



GUARDIAN RELAYS AND SOLENOIDS

UNIVERSAL "200" SERIES
 Universal interchangeable parts for assembling custom relays. Listings include AC, DC, and plate coils, and switch contact assemblies. Complete relay requires one coil and one contact assembly. For additional contacts use the contact switch parts kit. Contact ratings given are at 115 v. 60 cycle AC, non-inductive load. Use two 6-32 screws for mounting. Overall size: With standard contact assembly 2 7/8" x 1 1/2" x 1 3/4"; midjet contact assembly, 2 1/2" x 1 1/2" x 1 1/2". Av. shpg. wt., 4 oz.

AC Coil Types					DC Coil Types				
Stock No.	Volts	1 to 24, EACH	25 to 49, EACH	50 to 99, EACH	Stock No.	Volts	1 to 24, EACH	25 to 49, EACH	50 to 99, EACH
75 P 709	6	1.63	1.47	1.38	75 P 713	6	1.63	1.47	1.38
75 P 710	12	1.63	1.47	1.38	75 P 714	12	1.63	1.47	1.38
75 P 711	24	1.63	1.47	1.38	75 P 715	24	1.63	1.47	1.38
75 P 712	115	2.04	1.84	1.73	75 P 716	32	1.63	1.47	1.38
75 P 888	230	2.69	2.42	2.28	75 P 717	110	2.04	1.84	1.73

75 P 779, Type 200-5000 D. 5000-ohm plate coil. 1-24, EACH... 2.10
 25-49, EACH... 1.89 50 to 99, EACH... 1.78

SERIES 200 SWITCH CONTACT ASSEMBLIES

Stock No.	Mfr's Type	Description	1 to 24, EACH	25 to 49, EACH	50 to 99, EACH
75 P 707	200-1	SPDT contact assembly. 8 amps.	1.33	1.20	1.13
75 P 708	200-2	DPDT contact assembly. 8 amps.	1.81	1.63	1.53
75 P 724	200-4	DPDT contact assembly. 12.5 amps.	2.10	1.89	1.78
75 P 889	200-5	4PDT contact assembly. 8 amps.	3.28	2.95	2.79
75 P 718	200-M1	SPDT midjet contact assembly. 8 amps.	1.24	1.12	1.05
75 P 719	200-M2	DPDT midjet contact assembly. 8 amps.	1.63	1.47	1.38
75 P 826	200-M5	4PDT midjet contact assembly. 8 amps.	2.70	2.43	2.29

Type 200-M3. Switch parts. For adding poles to 200-M1 and 200-M2. 75 P 725. 50-99, EA... 1.12 25-49, EA... 1.21 1-24, EA... 1.34
 Type 200-3. Switch parts for adding poles to 200-1 and 200-2.
 75 P 730. 50-99, EA... 1.13 25-49, EA... 1.21 1-24, EA... 1.34

RC-100 LOCKING RELAYS

Locking relays for holding in control; phone to CW switching etc. Momentary coil energization locks contacts. Each impulse reverses contacts. 1/2" silver contacts are rated 12.5 amps; handle 1500-watt non-inductive load at 60 cycle AC; 1000-watt inductive load at 60 cycle AC. Overall size, 2 1/4" x 2 1/2" x 3 3/4". Av. shpg. wt., 12 oz.

Stock No.	Type	Contacts	Volts	1 to 24, EA.	25 to 49, EA.	50 to 99, EA.
75 P 727	RC-100-AR	4PST	115	5.96	5.36	5.06
75 P 827	RC-100-BR	SPDT & DPST	115	6.21	5.59	5.27
75 P 322	RC-100-CR	SPDT	115	5.75	5.17	4.88
75 P 887	RC-100-GR	DPDT	115	5.83	5.25	4.95

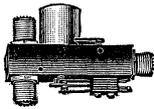
OVERLOAD RELAYS

Relays protect against surge, or continuous overload. X-300-ER has remote electrical reset and overload adjustment; *adjustable from 250-750 ma., DC 3000 v. ins. Aux. contacts for pilot light indicates "overload" or "clear" position. L-500 has manual reset. Contacts rated 1500 v. non-inductive; 1 kw inductive; at 115 v. 60 cycles; 2000 v. ins.

Stock No.	Type	Ma.	Size	Lbs.	1 to 24, EA.	25 to 49, EA.	50 to 99, EA.
75 P 640	X-300-ER	250-750*	4 1/4" x 1 1/2" x 2 1/2"	1 1/4	7.69	6.92	6.53
75 P 726	L-500	500	1 3/4" x 2 1/2" x 3 3/4"	1	8.92	8.03	7.58

DOW-KEY COAXIAL ANTENNA RELAYS

Type DKC-G. Precision-built coaxial antenna relays. Re-designed magnet provides thrust pressure in excess of 200 grams—prevents intermittent failure in closing of receiver circuit. Shielded magnet. AC type completely free of hum or chatter. Contacts rated 1000 watts. Negligible change in SWR up to 300 mc. Built-in automatic receiver antenna shorting device. Grounds contact leading to receiver before tongue makes contact with transmitter—prevents RF from reaching receiver circuit. Breakdown voltage: over 1000 volts rms. Takes SPDT switch (included in illustration) listed below, for operating B+ of receiver. Connectors, relay tongues and brass parts are silver plated. Size: 4 1/4" x 2 3/4" x 1 1/2". Shpg. wt., 9 oz.
 75 P 148. For 110 v. AC. NET... 12.45
 75 P 147. For 6 v. DC. NET... 12.05



1E SPDT Switch. Heavy-duty switch assembly for external mounting on DKC-G antenna relay above. Switch is actuated by built-in plunger which is part of relay. Shpg. wt., 2 oz.
 75 P 799. NET... 1.15
 2E DPDT Switch. As above, but DPDT contacts. Shpg. wt., 2 oz.
 75 P 884. NET... 2.30

Type DKF-2L Connector. Double male. For mounting relays directly to output of transmitter. Designed for UHF. Heavy silver plating. Recommended for indoor use. Locking type. Shpg. wt., 6 oz.
 75 P 136. NET... 1.45
 12VDC Coil. Model DK C-M. 12 volt relay coil for converting DKM 6 volt DC relay or DKC-G 6 and 110 volt AC relays for 12 volt DC use. Ideal for the new 12 v. automotive systems. Shpg. wt., 3 oz.
 75 P 138. NET... 2.30

2200-U POWER RELAYS

DPDT power relay featuring interchangeable coils. Relay may be modified by inserting replacement coil of another voltage. For motor starting, heater loads and other heavy-duty uses. Contacts rated at 25 amps, continuous duty, 230 v. AC with 75% power factor load. Operating power requirement, 9.5 va; coil drain, approx. .080 amps at 115 v., 60 cycles. 3 3/8" x 2 1/2" x 2 3/8". Av. shpg. wt., relays, 12 oz.; coils, 6 oz.

Volts AC	Relays					Replacement Coils						
	Stock No.	1-24, EACH	25-49, EACH	50-99, EACH	Stock No.	1-24, EACH	25-49, EACH	50-99, EACH	Stock No.	1-24, EACH	25-49, EACH	50-99, EACH
6	75 P 083	6.00	5.40	5.10	75 P 087	2.05	1.84	1.74				
24	75 P 084	6.00	5.40	5.10	75 P 088	2.05	1.84	1.74				
115	75 P 085	6.00	5.40	5.10	75 P 089	2.05	1.84	1.74				
230	75 P 086	6.25	5.62	5.31	75 P 090	2.20	1.98	1.87				

CS-2200. Switch Parts. Switch assemblies for above relays. "Left" or "right" means as viewed at armature end, contacts up. Wt., 4 oz.
 75 P 563. Left Assembly. NET... 1.85
 75 P 564. Right Assembly. NET... 1.85

I-18 SERIES INDUSTRIAL SOLENOIDS

Intermittent-duty solenoids are for applications that do not require energization of coil for more than 5 consecutive minutes with sufficient time between cycles for cooling. Continuous-duty solenoids are not to exceed a temperature rise of 85° C. Sizes and shpg. wts.: 1A—1 1/2" x 1 3/4" x 1 3/8"; 3 oz. 2—1 3/8" x 1 1/2" x 1 1/8"; 10 oz. 4—1 3/8" x 2 1/8" x 1 1/8"; 15 oz. 11—1 3/8" x 1 3/8" x 1 3/8"; 8 oz. 12—1 7/8" x 1 3/8" x 1 3/8"; 6 oz. 14—2 1/8" x 1 1/8" x 1 1/8"; 19 oz. 16—1 7/8" x 1 1/2" x 1 1/8"; 8 oz. 18—2 1/8" x 2 1/8" x 1 3/8"; 1 lb. Int. 1C Cont.

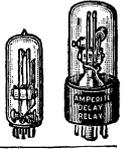
Stock No.	Type	Volts	Stroke	Lift Oz.	1 to 24, EA.	25 to 49, EA.	50 to 99, EA.
75 P 890	1A*	115AC	3/8"-1/2"	8	2.48	2.23	2.10
75 P 891	1A†	115AC	3/8"-1/2"	3	2.48	2.23	2.10
75 P 154	2*	115AC	3/8"-1/2"	27	2.90	2.61	2.46
75 P 155	2†	115AC	3/8"-1/2"	10	2.90	2.61	2.46
75 P 892	4*	115AC	3/8"-1/2"	24	3.13	2.82	2.66
75 P 893	4†	115AC	3/8"-1/2"	6	3.13	2.82	2.66
75 P 828	12*	115AC	1/2"-1"	32	3.88	3.49	3.29
75 P 829	12†	115AC	1/2"-1"	22	3.88	3.49	3.29
75 P 595	11*	6DC	3/8"-1"	39	3.08	2.77	2.61
76 P 318	11†	6DC	3/8"-1"	21	3.08	2.77	2.61
75 P 596	11*	24DC	3/8"-1"	39	3.08	2.77	2.61
76 P 319	11†	24DC	3/8"-1"	21	3.08	2.77	2.61
75 P 894	14*	115AC	3/8"-1/2"	110	5.61	5.05	4.76
75 P 895	14†	115AC	3/8"-1/2"	55	5.61	5.05	4.76
75 P 156	16*	115AC	3/8"-1/2"	80	3.48	3.13	2.95
75 P 885	16†	115AC	3/8"-1/2"	60	3.48	3.13	2.95
75 P 320	16†	230AC	3/8"-1/2"	60	3.65	3.28	3.10
75 P 157	18*	115AC	1/2"-1"	183	4.88	4.39	4.14
75 P 886	18†	115AC	1/2"-1"	145	4.88	4.39	4.14
76 P 321	18†	230AC	1/2"-1"	145	5.10	4.59	4.33

MER-115 MIDJET STEPPING RELAY

Electrical-reset stepping relay with 21 active positions; resets from external control or own contacts. Contacts rated 1 amp at 115 v., 60 cycle, non-inductive. Stepping and reset coils 115 v., 60 cycle AC. Minimum set pulse, 50 ms; reset, 10 ms. 3 1/4" x 2 3/8" x 3 1/4". Shpg. wt., 13 oz.
 75 P 282. 1 to 24, NET EACH... 12.18
 25 to 49, EACH... 10.96 50 to 99, EACH... 10.35

AMPERITE THERMOSTATIC DELAY RELAYS

Hermetically sealed in glass envelope with octal base. Heater draws 2 watts and may be operated continuously. Contacts: SPST, 3 amps at 115 v. AC, 1 amp at 220 v. AC. Voltage Breakdown: Contacts, 1000 v.; Heater-to-Contact, 1500 v., except* 250 v. and 500 v. for delays of 10 sec. or less. Ambient temperatures from -55° to +70° C. Size, Dia., 1 1/2"; Height less prongs, 2 7/8". Av. shpg. wt., 4 oz. Be sure to specify type number as well as stock number.

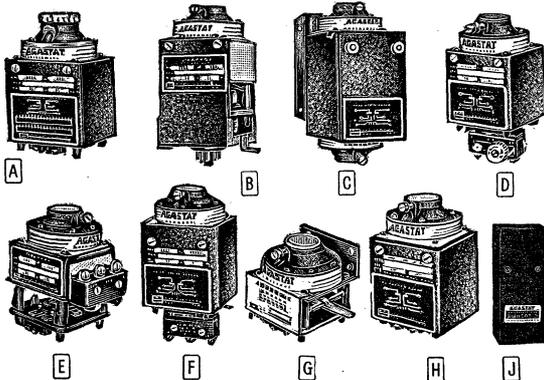


Delay Seconds	Type No. Normally Open		Type No. Normally Closed	
	6.3 v. AC-DC	115 v. AC-DC	6.3 v. AC-DC	115 v. AC-DC
2*	6N02	115N02	6C2	115C2
5*	6N05	115N05	6C5	115C5
10*	6N10	115N10	6C10	115C10
15	6N15	115N15	6C15	115C15
20	6N20	115N20	6C20	115C20
30	6N30	115N30	6C30	115C30
45	6N45	115N45	6C45	115C45
60	6N60	115N60	6C60	115C60
75	6N75	115N75	6C75	115C75
90	6N90	115N90	6C90	115C90
120	6N120	115N120	6C120	115C120
150	6N150	115N150	6C150	115C150
180	6N180	115N180	6C180	115C180

75 PP 295. NET EACH... 2.35
 Miniature Relays. All types above also available in miniature size except 115C150, 115C180, 115N0150, 115N0180, 9-pin, 3/4x2 3/8". 3 oz. Specify type no., adding letter "T" following type number. Example: 6N120T.
 75 PP 296. NET EACH... 2.35
 Allied also stocks a complete selection of Amperite Regulator Tubes for industrial applications. See page 126 for listings.

Industrial Relays and Motors

AGASTAT TIME DELAY RELAYS



Precision time-delay relays. Provide adjustable delays for a variety of industrial applications. Consist of sealed timing head, solenoid assembly, snap-action switch with fine silver contacts, and screw terminals. Contact ratings based on 115 volts, 60 cycle resistive loads. All units have DPDT, single-break contacts; metal jumper supplied permits SPDT, double-break contact. Doubling break contact rating, 15 amps; single-break, 8 amps. DE units containing Y in Type No. are adjustable from 1.0 through 30 seconds; B units are adjustable from 30 seconds to 15 minutes; FE units are adjustable from 0.1 through 5 minutes. "Use" column numbers mean that delay starts when (1) coil is energized, (2) coil is de-energized, (3) coil is energized and de-energized; (4) provides a set time timing upon energizing cycle—auxiliary switch up to 15 seconds maximum; (5) provides two-step timing upon de-energizing cycle—auxiliary switch up to 15 seconds maximum; (6) as 1, but with auxiliary switch which transfers instantly upon energizing and de-energizing of coil; (7) as 2, but with auxiliary switch which instantly transfers upon energizing and de-energizing of coil; (8) manually or mechanically actuated—slow make, instantaneous break; (9) manually or mechanically actuated—instantaneous make, slow break. Q in Type No. indicates front panel mounting bracket 3/4" wide included; T in Type No. indicates front of panel 90° terminals. Coils are for 50-60 cycle AC. Av. shpg. wt., 2 1/4 lbs.

Stock No.	Mfr's Type	Fig.	Use	Coil Volts	Size HWD	NET EACH	2-U-UP EACH
76 P 650	FE-12QT	A	1	115	4 1/8 x 2 5/8 x 2 1 1/8"	34.20	30.78
76 P 651	FE-12QT	A	1	230	4 1/8 x 2 5/8 x 2 1 1/8"	34.20	30.78
76 P 652	FE-12QT	A	1	440	4 1/8 x 2 5/8 x 2 1 1/8"	34.20	30.78
76 P 653	FE-22QT	A	2	115	4 1/8 x 2 5/8 x 2 1 1/8"	34.20	30.78
76 P 654	FE-22QT	A	2	230	4 1/8 x 2 5/8 x 2 1 1/8"	34.20	30.78
76 P 655	FE-22QT	A	2	440	4 1/8 x 2 5/8 x 2 1 1/8"	34.20	30.78
76 P 656	FE-12P	B	1	115	5 x 3 3/4 x 2 1/8"	42.25	38.03
76 P 657	FE-12P	B	1	230	5 x 3 3/4 x 2 1/8"	42.25	38.03
76 P 658	FE-22P	B	2	115	5 x 3 3/4 x 2 1/8"	42.25	38.03
76 P 659	FE-22P	B	2	230	5 x 3 3/4 x 2 1/8"	42.25	38.03
76 P 660	FED-12	C	3	115	6 1/4 x 3 1/4 x 4"	62.00	55.80
76 P 661	FED-12	C	3	230	6 1/4 x 3 1/4 x 4"	62.00	55.80
76 P 662	FED-12Q	D	4	115	5 1/2 x 2 1/2 x 2 1 1/8"	44.80	40.32
76 P 663	FED-22Q	D	5	115	5 1/2 x 2 1/2 x 2 1 1/8"	44.80	40.32
76 P 664	FEL-12QT	E	6	115	4 1/8 x 2 1/2 x 3 3/8"	39.20	35.28
76 P 665	FEH-22Q	F	7	115	5 7/8 x 2 5/8 x 2 1 1/8"	38.80	34.92
76 P 666	FM-12QT	G	8	.....	2 1/16 x 3 1/2 x 2 1 1/8"	22.20	19.98
76 P 667	FM-22QT	G	9	.....	2 1/16 x 3 1/2 x 2 1 1/8"	22.20	19.98
76 P 668	DE-Y-12QT	H	1	115	4 7/8 x 2 5/8 x 2 1 1/8"	36.20	32.58
76 P 669	DE-Y-12QT	H	1	230	4 7/8 x 2 5/8 x 2 1 1/8"	36.20	32.58
76 P 670	DE-V-22QT	H	2	115	4 7/8 x 2 5/8 x 2 1 1/8"	36.20	32.58
76 P 671	DE-V-22QT	H	2	230	4 7/8 x 2 5/8 x 2 1 1/8"	36.20	32.58
76 P 672	DE-B-12QT	H	1	115	4 7/8 x 2 5/8 x 2 1 1/8"	36.20	32.58
76 P 673	DE-B-12QT	H	1	230	4 7/8 x 2 5/8 x 2 1 1/8"	36.20	32.58
76 P 674	DE-B-22QT	H	2	115	4 7/8 x 2 5/8 x 2 1 1/8"	36.20	32.58
76 P 675	DE-B-22QT	H	2	230	4 7/8 x 2 5/8 x 2 1 1/8"	36.20	32.58
76 P 676	DE-B-22QT	H	2	440	6 5/8 x 2 1/2 x 3 5/8"	5.00	4.50
76 P 677	DE-B-22QT	H	2	440	6 5/8 x 2 1/2 x 3 5/8"	6.00	5.40
76 P 678	DE-B-22QT	H	2	440	7 5/8 x 3 3/8 x 3 5/8"	6.00	5.40

HURST 40-INCH-OUNCE MOTORS



Extremely compact, heavy-duty synchronous motors for continuous timing applications. In choice of seven output speeds for use in alarm systems, extra-large clocks, animated displays, railway signalling equipment, process controls, lighting controls, code signal devices, time switches, program instruments, aircraft training devices, etc.

Excellent shock and vibration resistance. Start instantly at full torque (40 inch-ounces at 1 rpm). Clockwise rotation. Overall size: 2 1/2" diameter by 1 3/4" deep. Shaft: 3/16" diameter by 3/4" long. Power drain: 7 watts. For operation from 110-115 volts, 60 cycle AC. Shpg. wt., 1 lb.

Stock No.	Mfr's Type	Output Speed	NET EACH		
			1-17	18-35	36-71
76 P 571	SM-1	1 rpm			
76 P 572	SM-4	4 rpm			
76 P 573	SM-6	6 rpm			
76 P 574	SM-10	10 rpm	6.75	6.40	6.07
76 P 575	SM-16	16 rpm			
76 P 576	SM-30	30 rpm			
76 P 577	SM-60	60 rpm			

Write for prices on larger quantities.

BARBER-COLMAN RELAYS AND MOTORS

TYPE "O" ULTRA-SENSITIVE RELAYS



Ultra-sensitive, DC-polarized relays. Feature extremely high sensitivity. Ideal for years wherever power supply is limited. Will operate for years with mercury cells. Widely used in plate circuits. High-speed response; can be operated in excess of 100 cps. Fine silver contacts are SPDT, with floating neutral position. Polarity of signal determines which contact closes. Sensitivity is adjustable for precise setting. Two Alnico magnets are used for polarizing field.

High resistance to physical shock. Normal tolerance on pull-in current at 75° F. is ±25%; from -65° to +160° F. ±60%. All have actual plug-in bases for chassis installation. 1 1/2 x 3 1/2 x 1 1/8". Shpg. wt., 10 oz.

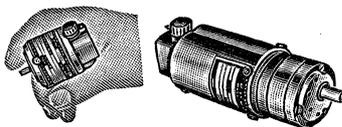
Single Coil

Stock No.	Mfr's Type	Coil Ohms	Pull-in Volts	Pull-in Amps	Pull-in μ Watts	NET
75 P 252	AYLZ-2542S	215	.154	.00071	109.6	18.00
76 P 700	AYLZ-2546S	140	.076	.00054	41.1	22.00
75 P 250	AYLZ-2804S	7950	.930	.00012	108.8	18.00
76 P 418	AYLZ-2841S	7950	.604	.000076	45.9	22.00
76 P 419	AYLZ-3165S	560	.238	.00043	101.2	18.00
76 P 415	AYLZ-4042S	215	.100	.00046	46.3	22.00
75 P 255	AYLZ-4436S	13	.035	.00257	92.4	18.00
76 P 420	AYLZ-4437S	2300	.499	.00022	108.3	18.00
76 P 414	AYLZ-4525S	13	.023	.00173	39.1	22.00
76 P 701	AYLZ-4526S	54	.047	.00087	40.6	22.00
76 P 702	AYLZ-4527S	88	.062	.00068	41.2	22.00
76 P 703	AYLZ-4528S	350	.123	.00035	43.2	22.00
76 P 416	AYLZ-4529S	560	.155	.00028	42.8	22.00
76 P 704	AYLZ-4530S	1400	.243	.00017	42.1	22.00
76 P 417	AYLZ-4531S	2300	.325	.00014	45.9	22.00
76 P 705	AYLZ-4532S	3550	.524	.000093	48.7	22.00
76 P 706	AYLZ-4533S	5650	.604	.000076	45.9	22.00
76 P 707	AYLZ-4535S	900	.198	.00022	43.7	22.00

Double Coil

Stock No.	Mfr's Type	Coil Ohms	Pull-in Volts	Pull-in Amps	Pull-in μ Watts	NET
76 P 427	AYLZ-3078S	940	.494	.00053	260.0	19.00
75 P 253	AYLZ-3188S	5	.033	.00667	222.2	19.00
76 P 708	AYLZ-3422S	3800	1.000	.00026	263.0	19.00
76 P 708	AYLZ-3422S	150	.122	.00081	99.0	23.00
75 P 254	AYLZ-3535S	240	.240	.00100	240.0	19.00
76 P 425	AYLZ-3428S	3800	.650	.00017	111.1	23.00
76 P 709	AYLZ-3840S	365	.190	.00052	98.7	23.00
76 P 426	AYLZ-4443S	95	.146	.00154	224.7	19.00
76 P 421	AYLZ-4534S	5	.022	.00433	93.7	23.00
76 P 710	AYLZ-4535S	9	.029	.00325	95.1	23.00
76 P 711	AYLZ-4536S	39	.060	.00153	91.2	23.00
76 P 712	AYLZ-4537S	61	.072	.00118	85.2	23.00
76 P 422	AYLZ-4538S	95	.095	.00100	95.0	23.00
76 P 423	AYLZ-4539S	240	.156	.00065	101.4	23.00
76 P 424	AYLZ-4540S	940	.322	.00034	110.0	23.00
76 P 713	AYLZ-4541S	1450	.401	.00025	110.9	23.00
76 P 714	AYLZ-4542S	2300	.507	.00022	111.6	23.00

BYLM PERMANENT MAGNET DC MOTORS



Ideal for fan and blower drives, rapid transfer switches, and programming devices. Permanent magnet field. Tapered air gap reduces armature reaction, for improved performance under varying load conditions. Multi-coat treatment protects from moisture, fungus, or salt spray. Brush life at sea level usually exceeds 1000 hours. Motors perform well at high altitudes. Ambient temperature range is -65°F F. to +200° F. Meet AN-M-40 and MIL-M-8609 (ASG) specs. 2 1/4" diam. spline shaft output. Can be used with gear trains listed below. *Pound inches. Av. shpg. wt., 2 lbs.

Stock No.	Type	DC V.	Output Cycle	HP	RPM	*Torque	EACH
76 P 550	40F50	26	Continuous	.013	8200	.10	36.00
76 P 551	40O50	26	3 min. on, 7 off	.026	10300	.12	36.00
76 P 552	75050	26	Continuous	.023	7200	.20	41.00
76 P 553	70250	26	1.5 min. on, 8.5 off	.054	12300	.28	41.00
76 P 554	90150	26	2 min. on, 8 off	.080	12600	.40	46.00
76 P 555	40A50	115	Continuous	.014	10700	.08	45.00
76 P 556	70750	115	Continuous	.027	7200	.23	45.00

BYLH Geartrains. For above. Reduce speed and increase the torque as indicated under "gear ratio." Maximum torque is 5-10 pound inches. Fit motor frame and accepts motor shaft. All geartrains are 1.38" dia. Lengths from 1.07" (for 922) to 1.69" (for 919). Av. shpg. wt., 1 lb.

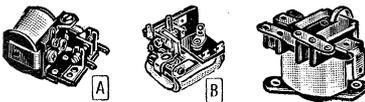
Stock No.	Type	No. Steps	Gear Ratio	NET EACH
76 P 557	922	2	9.5 to 1	21.00
76 P 558	923	3	32.6 to 1	26.00
76 P 559	914H	4	113 to 1	19.00
76 P 560	915A	5	312 to 1	22.00
76 P 561	915B	5	390 to 1	22.00
76 P 562	916A	6	1093 to 1	25.00
76 P 563	917B	7	1767 to 1	28.00
76 P 564	917D	7	4648 to 1	28.00
76 P 565	918B	8	16053 to 1	31.00
76 P 566	919B	9	55446 to 1	34.00

LEDEX 12-POSITION RELAY

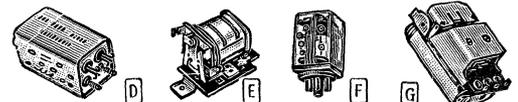


Master switch and solenoid-activated slave switch for remote switching. Slave switch may be installed at any remote location. Master switch mounts directly on panel, etc. Uses 5-conductor cable. With demonstration board. Comes wired with selenium-rectifier power supply and line cord. For 95-130 v., 50-60 cycle AC. Shpg. wt., 3 lbs. 75 P 243. NET.....16.50

Relays, Counters and Contact Protectors



SENSITIVE SIGMA RELAYS



A Series 4F. Plate circuit relay for any 20 mw. sensitivity application. SPDT contact rated 2 amps. $1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ in. Ma.

Stock No.	Mfr's Type	Ohms	Ma. DC	NET
76 P 377	4F-1000-S/SIL	1000	4.5	5.50
76 P 378	4F-2500-S/SIL	2500	3.0	5.50
76 P 379	4F-5000-S/SIL	5000	2.0	5.75
76 P 285	4F-8000-S/SIL	8000	1.6	6.00

B Series 5F. Rugged SPDT DC relay with stands 100 G shock. 5 mw. sensitivity. Contacts rated 1 amp. $1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ in. Ma.

Stock No.	Mfr's Type	Ohms	Ma. DC	NET
76 P 380	5F-1000-S/SIL	1000	2.3	7.50
76 P 381	5F-2500-S/SIL	2500	1.4	7.50
76 P 382	5F-5000-S/SIL	5000	1.0	8.00
76 P 383	5F-10,000-S/SIL	10,000	0.7	8.75

C Series 11F. Small, low-cost DC relay. 50 mw. sensitivity. SPDT contacts rated 1 amp. $1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ in. Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Ohms	V. AC	NET
75 P 068	11F-1000-G/SIL	1000	7.0	1.50
75 P 069	11F-2500-G/SIL	2300	4.6	1.50
75 P 070	11F-5000-G/SIL	5000	2.9	1.70
75 P 075	11F-9000-G/SIL	9000	2.4	1.85

C Series 11FZ. Small, low cost AC relay for positive on-off operation. SPDT contacts rated 1 amp at 120 V. AC. $1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ in. Ma.

No.	Mfr's Type	Ohms	V. AC	NET
76 P 547	11FZ-40-ACS/SIL	40	6	2.00
76 P 548	11FZ-150-ACS/SIL	150	12	2.00
76 P 549	11FZ-550-ACS/SIL	550	24	2.00
76 P 567	11FZ-2300-ACS/SIL	2300	48	2.00
76 P 568	11FZ-9000-ACS/SIL	9000	120	2.35

D Series 22. Miniature hermetically-sealed relay. Silver contacts rated 2 amps for 28 V. DC or 115 V. AC resistive load. SPDT action at 20 mw sensitivity, except *DPDT at 40 mw. $1\frac{1}{4} \times 1\frac{1}{4} \times 1$ in. Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Ohms	Ma. DC	NET
76 P 384	22RJC-1000-G/SIL	1000	4.5	13.00
76 P 385	22RJC-2500-G/SIL	2500	2.8	13.50
76 P 386	22RJC-5000-G/SIL	5000	2.0	14.00
76 P 387	22RJC-8000-G/SIL	8000	1.6	14.50
76 P 388	22RJC-1000-G/SIL*	1000	6.3	14.50
76 P 389	22RJC-2500-G/SIL*	2500	4.0	15.00
76 P 390	22RJC-5000-G/SIL*	5000	2.8	15.50
76 P 391	22RJC-8000-G/SIL*	8000	2.3	16.00

E Series 41. Exceptionally quiet, sensitive relay. SPDT contacts rated: *2; †5 amps. Sensitivity, 40 mw. $2\frac{1}{4} \times 1\frac{1}{4} \times 1\frac{1}{2}$ in. Ma.

Stock No.	Mfr's Type	Volts (AC) Ohms (DC)	Ma. (DC)	NET
75 P 076	41FZ-10-ACG/SIL	6 v. †	.....	3.50
75 P 092	41FZ-35-ACG/SIL	6 v. *	.....	3.50
75 P 077	41FZ-200-ACG/SIL	24 v. †	.....	3.50
75 P 093	41FZ-500-ACG/SIL	24 v. *†	.....	3.50
75 P 078	41FZ-5000-ACG/SIL	115 v. †	.....	3.65
75 P 094	41FZ-10000-ACG/SIL	115 v. *	.....	3.85
75 P 079	41FZ-12000-ACG/SIL	230 v. †	.....	4.15
76 P 395	41F-5-S/SIL	5 ohms	90	3.50
76 P 396	41F-50-S/SIL	50 ohms	30	3.50
76 P 397	41F-200-S/SIL	200 ohms	15	3.50
76 P 398	41F-1000-S/SIL	1K ohms	6.5	3.50
76 P 399	41F-5000-S/SIL	5K ohms	3.0	3.65
76 P 400	41F-10000-S/SIL	10K ohms	2.0	3.85

F Series 42. DPDT relay with octal plug-in base and dust cover. Provides extremely quiet operation. Operating power is under 0.25 watt on DC and under 0.5 volt-amp on AC. Silver contacts rated 5 amps at 28 V. DC or 115 V. AC for 100 cycle operation. Pin connections are designed for 60 cycle operation. Pin connections are printed on relay cover. $2\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ in. Shpg. wt., 4 oz.

Stock No.	Mfr's Type	Volts (AC) Ohms (DC)	Ma. (DC)	NET
76 P 401	42R02-8-ACG/SIL	5 v.	.....	6.20
76 P 402	42R02-50-ACG/SIL	12 v.	.....	6.20
76 P 403	42R02-200-ACG/SIL	24 v.	.....	6.20
76 P 404	42R02-1000-ACG/SIL	115 v.	.....	6.20
76 P 405	42R02-12000-ACG/SIL	220 v.	.....	6.80
76 P 406	42R02-5-G/SIL	5 ohms	200	6.20
76 P 407	42R02-50-G/SIL	50 ohms	65	6.20
76 P 408	42R02-200-G/SIL	200 ohms	32	6.20
76 P 409	42R02-1000-G/SIL	1K ohms	14	6.20
76 P 410	42R02-5000-G/SIL	5K ohms	6.5	6.40
76 P 411	42R02-10000-G/SIL	10K ohms	4.5	6.60

G 26F-8000-CDS/PAL Relay. Similar to 4F series 8000-ohm relay listed in left-hand column, but slightly lighter and with somewhat greater sensitivity. Allows circuits to be adjusted so as to draw less plate current, for longer tube or battery life. Ideal for use in radio-controlled devices. SPDT, palladium contacts rated at 0.5 amp @ 28 v. DC or 115 v. AC. 8000 ohm coil. Operating current, 0.7 ma. Pull-on, drop-out current difference, 0.2 ma. Shpg. wt., 7 oz.

75 P 284. NET.....8.50

EBERT MERCURY-PLUNGER RELAYS

Standard. Ideal for industrial applications where extreme dependability is required. Mercury contacts are hermetically sealed in tempered glass. (NO indicates normally open; NC indicates normally closed.) 60-cycle AC ratings (each pole of EM-4): 35 amps at 115 v., 25 amps at 230 v. HP ratings at 115 and 230 v., 60-cycle AC: EM-1 and EM-4 (total, both NO), 2 HP; EM-4 (total, both NC) and EM-2, 1 HP. Operate from 115-230 v., 50-60 cycle AC, or DC. U.L. Approved. Express only.



No.	Type	Description	Size	Lbs.	NET
75 P 950	EM-1	Single pole, NO	$4\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$	$1\frac{1}{4}$	12.65
75 P 951	EM-2	Single pole, NC	$5\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$	$1\frac{1}{2}$	14.02
75 P 952	EM-4	2-pole, both NO	$5\frac{1}{2} \times 3\frac{1}{2} \times 2\frac{1}{2}$	2	20.90
75 P 956	EM-4	2-pole, both NC	$5\frac{1}{2} \times 3\frac{1}{2} \times 2\frac{1}{2}$	2	24.20
76 P 579	EM-4	2-pole, 1 NO/1 NC	$5\frac{1}{2} \times 3\frac{1}{2} \times 2\frac{1}{2}$	2	22.55

Heavy-Duty. Similar to relays listed above. Types HD-1 and HD-2 are rated at 60 amps for 115 v. and 35 amps for 230 v., 60-cycle AC. Rated 2 HP total at 115 v. and 230 v., AC. Type HD-4 2-pole relay; each pole controls 60 amps at 115 v., and 35 amps at 230 v., 60-cycle AC; rated (both NO or NC, total, 2 HP at 115 v. and 3 HP at 230 v., AC. Type HD-7 3-pole relay; each of the 3 poles can control up to 60 amps at 115 v. and 35 amps at 230 v., 60-cycle AC; total HP rating is 3 HP (3-phase) and 2 HP (single-phase) at 115 v. and 230 v., AC. NO indicates normally open; NC, normally closed. Operate from 115/230 v., 50-60 cycle AC. All U.L. Approved. Shipped by express only.

No.	Type	Description	Size	Lbs.	NET
75 P 232	HD-1	Single pole, NO	$2\frac{3}{8} \times 5\frac{1}{4} \times 3\frac{3}{4}$	2	14.30
75 P 233	HD-2	Single pole, NC	$2\frac{3}{8} \times 5\frac{1}{4} \times 3\frac{3}{4}$	2	15.68
75 P 234	HD-4	2-pole, both NO	$2\frac{3}{8} \times 5\frac{1}{4} \times 3\frac{3}{4}$	4	21.50
75 P 235	HD-4	2-pole, both NC	$2\frac{3}{8} \times 5\frac{1}{4} \times 3\frac{3}{4}$	2	29.70
75 P 236	HD-4	2-pole, 1 NO/1 NC	$2\frac{3}{8} \times 5\frac{1}{4} \times 3\frac{3}{4}$	2	28.05
75 P 237	HD-7	3-pole, all NO	$3\frac{1}{2} \times 6\frac{1}{2} \times 4\frac{1}{2}$	3	35.20
75 P 238	HD-7	3-pole, all NC	$3\frac{1}{2} \times 6\frac{1}{2} \times 4\frac{1}{2}$	3	40.70

Minirelays. Compact relays designed for general power control applications. Handle loads nearly twice that of ordinary armature-type units of equal size. 60-cycle AC current rating: 20 amps at 115 v., 10 amps at 230 v., 5.2 amps at 440 v. HP rating (each tube of MR-14): 1.5 HP at 115 v., 230 v. and 440 v., AC. Hermetically-sealed, mercury-to-mercury contacts; NO indicates normally open; NC indicates normally closed. Actuating coils operate from 115/230 v. for MR-10 and MR-12, 115 v. for MR-14, 50-60 cycle AC. Shipped by express only.



No.	Type	Description	Size	Oz.	NET
75 P 258	MR-10	Single pole, NO	$3\frac{7}{8} \times 1\frac{1}{2} \times 1\frac{1}{2}$	8	8.25
75 P 259	MR-12	Single pole, NC	$4\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$	8	9.08
76 P 580	MR-14	2-pole, both NO	$4\frac{3}{8} \times 1\frac{1}{2}$	16	15.65

SPST Microrelays. Highly sensitive relays for handling heavy loads. Use 2D21 thyratrons to control built-in mercury-plunger relays. Actuated by control signals as low as 3 μa. For control circuits, 1 to 10 megohms impedance. Contacts: Standard Type—35 amps at 115 v., 25 amps at 230 v., and 12 amps at 440 v., 60-cycle AC. Heavy-Duty Type—60 amps at 115 v., 35 amps at 230 v., 18 amps at 440 v., 60-cycle AC. Normally open operation. $5\frac{1}{2} \times 2\frac{1}{2} \times 4$ in. For 115/230 v., 60 cycles AC. $8\frac{1}{2}$ lbs. Express only.



75 P 256. Standard Type. NET.....41.25
75 P 257. Heavy-Duty Type. NET.....43.00

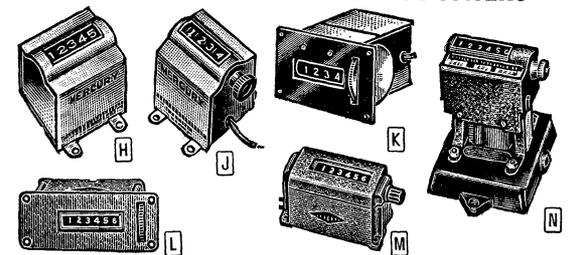
FEDERAL CONTACT PROTECTORS



Effective protection for relay contacts controlling inductive circuits. Suppress arcing and RF transients. Consist of selenium rectifier cells back-to-back in small tubular unit. For inductive loads being operated up to 40 times per sec. Pigtail leads. P in Type No. indicates paper, H hermetically sealed. Wt. 6 oz.

Stock No.	Type	Max. V.	Max. Ma.	Min. V.	Size	NET
76 P 323	8A2PS2	52 AC	200	27 AC	$2\frac{5}{8} \times 3\frac{1}{4}$	1.08
76 P 324	15A2PS2	52 AC	400	27 AC	$1\frac{1}{2} \times 3\frac{1}{4}$	1.13
76 P 326	8A5PS5	130 AC	200	105 AC	$2\frac{1}{2} \times 3\frac{1}{2}$	1.58
76 P 327	15A5PS5	130 AC	400	105 AC	$1\frac{1}{2} \times 3\frac{1}{2}$	1.58
76 P 328	8A2PS1	44 DC	200	23 DC	$2\frac{5}{8} \times 3\frac{1}{4}$	.92
76 P 329	8A2HS1	44 DC	200	23 DC	$3\frac{3}{8} \times 1\frac{1}{2}$	2.32
76 P 330	15A2PS1	44 DC	500	23 DC	$1\frac{1}{2} \times 3\frac{1}{4}$	.97
76 P 331	15A2HS1	44 DC	500	23 DC	$3\frac{3}{8} \times 1\frac{1}{2}$	2.37
76 P 332	8A3PS2	66 DC	250	45 DC	$2\frac{5}{8} \times 3\frac{1}{4}$	1.08
76 P 325	15A3PS2	66 DC	500	45 DC	$1\frac{1}{2} \times 3\frac{1}{4}$	1.13

PRODUCTION INSTRUMENT COUNTERS



High-quality electronic counters for commercial and industrial applications. For 60-cycle operation.

Prefix "M". Small counters for coin-operated equipment and light to moderate-duty industrial applications. Minimum make time 0.04 sec., break time 0.06 sec. Rated at 600 CPM. Enclosed in tamper-proof case. Reset units count to 4 digits, non-reset to 5. Shpg. wt., 1 lb.

Prefix "6" and "P". Small counters for general industrial applications. Minimum make and break time of 0.030 sec. Enclosed in dust-resistant housing. Rated at 1000 CPM, 50-million count life. Continuous-duty coils. 6 digits. Shpg. wt., 1 lb.

Prefix "ECS". Heavy-duty industrial-type counter. Minimum make and break time 0.030 sec. Rated at 1000 CPM, 200-million count life. Coil unharmed when current is left on. 6 digits. Shpg. wt., 3 lbs.

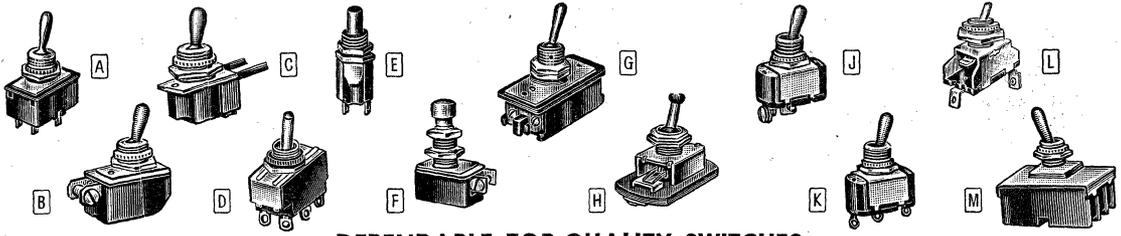
RESET TYPES

No.	Type	Fig.	V. AC	Size	Mount	Mtg. Ctrs.	NET
77 P 099	MDB-34-24A	K	24	$1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$	Panel	$1\frac{1}{2} \times 2\frac{1}{2}$	14.75
77 P 049	MDB-34-115A	K	115	$1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$	Panel	$1\frac{1}{2} \times 2\frac{1}{2}$	14.75
77 P 236	MDA-34-115A	J	115	$2\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$	Base	$1\frac{1}{2} \times 1\frac{1}{2}$	14.00
77 P 237	624A	M	24	$2\frac{1}{2} \times 1\frac{1}{2} \times 3\frac{1}{2}$	Base	$3\frac{1}{2} \times 1\frac{1}{2}$	18.50
77 P 237	6115A	M	115	$2\frac{1}{2} \times 1\frac{1}{2} \times 3\frac{1}{2}$	Base	$3\frac{1}{2} \times 1\frac{1}{2}$	18.50
77 P 238	P624A	L	24	$2\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$	Panel	$1\frac{1}{2} \times 1\frac{1}{2}$	19.50
77 P 239	6P115A	L	115	$2\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$	Panel	$1\frac{1}{2} \times 1\frac{1}{2}$	19.50
77 P 036	ECS-9	N	115	$3\frac{1}{2} \times 1\frac{1}{2} \times 5\frac{1}{2}$	Base	$4\frac{1}{2} \times 2\frac{1}{2}$	38.50

NON-RESET TYPES

77 P 033	MEA-N5-115A	H	115	$1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$	Base	$1\frac{1}{2} \times 1\frac{1}{2}$	14.40
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Cutler-Hammer Switches



DEPENDABLE TOP-QUALITY SWITCHES

STANDARD AC-DC TYPE

Phenolic case. 1/32" dial threaded stem. Stem length, 1 1/2", except *1 1/2" and 1 1/4". 3/64" wire leads; 1/8" screw terminals; all others have solder lug terminals. U.L. Approved. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type No.	Action	Fig.	Amperes		1-9 EACH	10-99 EACH	100 or More EACH
				125V	250V			
34 B 500	8280-K16	SPST	A	.....	3	.50	.42	34c
34 B 527	8280-K14†	SPST	A	.....	3	.50	.42	34c
34 B 508	8381-K8	SPST	A	6	3	.57	.48	38c
34 B 501	8282-K14	SPDT	A	3	1	.64	.54	43c
34 B 528	8282-K12†	SPDT	A	3	1	.64	.54	43c
34 B 502	8360-K7	DPST	A	.....	3	.90	.77	61c
34 B 529	8360-K6†	DPST	A	.....	3	.90	.77	61c
34 B 530	8363-K6†	DPDT	A	.....	3	1.04	.88	70c
34 B 503	8363-K7	DPDT	A	.....	3	1.04	.88	70c
34 B 749	8280-K15*	SPST	A	.....	3	.50	.42	34c
34 B 783	8290-K15*	SPST	C	.....	3	.61	.52	41c
34 B 784	8290-K16*	SPST	C	.....	3	.61	.52	41c
34 B 785	8295-K7**	SPST	B	.....	3	.61	.52	41c
34 B 786	8295-K8**	SPST	B	.....	3	.61	.52	41c
34 B 787	8381-K7*	SPST	A	6	3	.57	.48	38c
34 B 788	8391-K7*	SPST	C	6	3	.68	.58	46c
34 B 789	8391-K8	SPST	C	6	3	.68	.58	46c
34 B 790	8396-K6†	SPST	B	6	3	.68	.58	46c
34 B 791	8396-K8	SPST	B	6	3	.68	.58	46c
34 B 792	8370-K7	DPST	A	6	3	.98	.83	66c
34 B 793	8372-K7†	DPST	B	6	3	1.19	1.01	80c
34 B 632	8373-K7†	DPDT	A	6	3	1.12	.95	77c
34 B 794	8373-K8*	DPDT	A	6	3	1.12	.95	77c
34 B 795	8375-K7	DPDT	....	6	3	1.44	1.22	98c

AIRCRAFT TYPE

Meet JAN-S-23 requirements. All have solder terminals and 1/32" long threaded stem. *Have center-off position. †Have lever-seal to keep out sand and dust. Gov't ST-42 series are Fig. K; ST-52 series are Fig. D. ‡Momentary contact. †Momentary contact one side. ‡Momentary contact normally on. **Momentary contact normally off. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Gov't No.	Action	Amperes		1-9, EA.	10-99, EA.	100 or More, EA.
				28V DC	125V AC			
34 B 553	8802-K6*	ST42E	SPDT	20	8	1.02	.87	.70
34 B 414	8802-K10*†	ST42E	SPDT	20	8	1.29	1.10	.87
34 B 551	8803-K6	ST42A	SPST	20	8	.85	.72	.57
34 B 415	8803-K10†	ST42A	SPST	20	8	1.09	.93	.74
34 B 693	8815-K6*†	ST42H	SPDT	20	7	1.12	.95	.76
34 B 552	8816-K5	ST42D	SPDT	20	8	1.02	.87	.70
34 B 416	8816-K9*†	ST42D	SPDT	20	8	1.29	1.10	.87
34 B 695	8816-K3*§	ST42D	SPDT	20	7	1.12	.95	.76
34 B 696	8819-K5*	ST42B	SPST	20	7	.94	.80	.64
34 B 417	8821-K6*†	ST52P	DPDT	30	20	1.68	1.43	1.13
34 B 554	8823-K3	ST52K	DPST	30	20	1.02	.87	.70
34 B 418	8823-K6†	ST52K	DPST	30	20	1.42	1.21	.96
34 B 555	8825-K5	ST52N	DPDT	30	20	1.16	.99	.78
34 B 419	8825-K6†	ST52N	DPDT	30	20	1.42	1.21	.96
34 B 697	8827-K5**	ST52M	DPST	20	12	1.16	.99	.78
34 B 699	8831-K5§	ST52R	DPDT	20	12	1.34	1.14	.91
34 B 712	8833-K3*†	ST52T	DPDT	20	12	1.34	1.14	.91
34 B 713	8835-K3*†	ST52S	DPDT	20	12	1.34	1.14	.91

PUSH-BUTTON AC-DC TYPE

Push-button type switches to control current by opening or closing door. Automatically turn lights on and off in refrigerators, telephone booths, closets, vaults, etc. Momentary contact type. †Stem length, 1/4", others, 1/2". †Red button; others are black. Solder lug terminals. *Normally-open type is "on" with door closed; †normally-closed type is "on" with door open. U.L. Approved. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Action	Amperes		1-9, EACH	10-99, EACH	100 or More, EACH
			125V	250V			
34 B 548	8411-K4	SPST*	.75	.25	36c	31c	24c
34 B 631	8411-K6	SPST*†	.75	.25	36c	31c	24c
34 B 547	8411-K8	SPST*†	.75	.25	25c	21c	17c
34 B 549	8440-K2	AC-DC	3	1	73c	62c	50c

Type 7208-K4 AC-DC Push-Push On-Off Switch. Push-button switch. For control of current by alternate impulses. With SPST action. Rated at 3 amps, 250 volts; 6 amps, 125 volts. With screw type terminals. 1/32" diameter threaded stem; 1 1/8" long. U.L. Approved. Shpg. wt., 2 oz.
 34 B 519, 1-9, EACH.....78c
 10-99, EACH.....66c 100 or More, EACH.....53c

Type 7196-K1 Momentary Type Normally Open Switch. (Not illustrated). SPST action. Rated at 3 amps, 250 volts AC or DC; 6 amps, 125 volts AC or DC. With screw terminals. Threaded stem diameter, 1/32"; stem length, 1/2". U.L. Approved. Shpg. wt., 4 oz.
 34 B 691, 1-9, EACH.....1.02
 10-99, EACH.....87c 100 or More, EACH.....69c

AC-DC INDUSTRIAL TYPE

Standard-duty switches. Bakelite case. 1/32" threaded stem, 1 1/2" long except *, 1 1/4" long stem. Screw terminals. Underwriters' Laboratories Approved. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Action	Amperes		1-9 EACH	10-99, EACH	100 or More, EACH
			125 V	250 V			
34 B 545	7320-K3	DPST	12	6	.96	.82	.65
34 B 408	7321-K2*	SPST	12	6	.96	.82	.65
34 B 520	7321-K3	SPST	12	6	.96	.82	.65
34 B 516	7360-K8	DPST	15	10	1.67	1.42	1.13
34 B 517	7402-K4	DPST	1 1/2 hp	20	2.34	1.99	1.58
34 B 714	7361-K5	SPST	15	10	1.67	1.42	1.13
34 B 715	8600-K2	DPDT	15	10	3.66	3.11	2.47
34 B 717	8680-K1*	DPDT	10	5	3.02	2.57	2.04
34 B 718	7360-K7	DPST	15	10	1.67	1.42	1.13
34 B 719	7402-K3*	DPST	1 1/2 hp	20	2.34	1.99	1.58

STANDARD AC TYPE

All rated at 6 amps at 125 v. and 3 amps at 250 v. Single-pole switches are Fig. K; double-pole are Fig. D. Solder lugs, except *screw type terminals. †Center "OFF" positions. Threaded stem dia., 1/32"; stem length, 1/2". U.L. Approved. 3 oz.

Stock No.	Mfr's Type	Action	1-9 EACH	10-99, EACH	100 or More, EACH
34 B 641	7580-K6	SPST	43c	37c	29c
34 B 642	7581-K4*†	SPDT	56c	48c	38c
34 B 643	7581-K6†	SPDT	47c	40c	32c
34 B 644	7582-K4*	SPDT	56c	48c	38c
34 B 645	7582-K6	SPDT	47c	40c	32c
34 B 646	7590-K4*	DPST	76c	65c	51c
34 B 647	7590-K6	DPST	64c	54c	44c
34 B 648	7591-K4*†	DPDT	90c	77c	61c
34 B 649	7591-K6†	DPDT	72c	61c	49c
34 B 689	7592-K4*	DPDT	90c	77c	61c
34 B 690	7592-K6	DPDT	72c	61c	49c

HEAVY-DUTY AC TYPE

Slow-make, slow-break mechanism for long, dependable use. 1/32" diameter threaded stem, 1 1/2" long. *Center off. †Screw terminals; others have solder lug terminals. All have nominal rating of 10 amps at 250 v. AC and 15 amps at 125 v. AC. U.L. Approved. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Action	Fig.	1-9, EACH	10-99, EACH	100 or More, EACH
34 B 591	7500-K14†	SPST	J	.57	.48	.38
34 B 592	7502-K13*†	SPDT	K	.68	.58	.46
34 B 536	7505-K4	SPDT	K	.55	.47	.37
34 B 593	7504-K4†	SPDT	K	.68	.58	.46
34 B 537	7561-K4	DPST	D	.74	.63	.50
34 B 594	7560-K5†	DPST	D	.91	.77	.62
34 B 538	7565-K5	DPDT	D	.84	.71	.57
34 B 595	7564-K6†	DPDT	D	1.10	.94	.74
34 B 539	7563-K4*	DPDT	D	.84	.71	.57
34 B 596	7562-K4*†	DPDT	D	1.10	.94	.74
34 B 543	7611-K2	3PST	M	1.58	1.34	1.07
34 B 597	7610-K2†	3PST	M	1.83	1.56	1.24
34 B 523	7613-K2*	3PDT	M	1.94	1.65	1.31
34 B 598	7612-K2*†	3PDT	M	2.33	1.98	1.58
34 B 796	7503-K13*	SPDT	K	.55	.47	.37
34 B 798	7615-K2	3PDT	M	1.94	1.65	1.31
34 B 799	7614-K2†	3PDT	M	2.33	1.98	1.58

SPST MIDGET TYPE

Type 8098-K3. Midget switch. 3 amps at 125 volts AC, 0.75 amps at 125 volts DC, and 6 amps at 24 volts DC. Screw terminals. Threaded stem diameter, 1/32"; stem length, 1/2". Has bat-handle; handle length, 7/8" from end of threaded stem. Shpg. wt., 2 oz.
 34 B 510, 1-9, EACH.....40c
 10-99, EACH.....34c 100 or More, EACH.....27c

CENTER-OFF TYPE

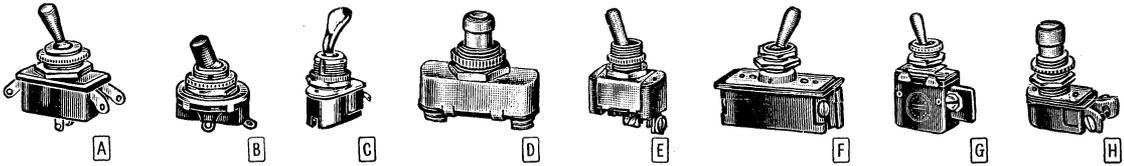
Type 7140-K6. SPDT switch with center-off position. 3 amps at 125 volts AC and 10 amps at 24 volts DC. Screw terminals. Threaded stem diameter, 1/32"; stem length, 1/2". U.L. Approved. 3 oz.
 34 B 522, NET 1-9, EACH.....43c
 10-99, EACH.....37c 100 or More, EACH.....29c

ON-OFF PLATE

Type 827-228F3. For Cutler-Hammer toggle switches. Keyed to fit slot in threaded stem. Shpg. wt., per pkg. 2 oz.
 34 B 504, Per Pkg. of 2.....8c

Carling and Grayhill Switches

CARLING SWITCHES



AC-DC TOGGLE SWITCHES

A AC-DC toggle switches for medium duty applications. Type Nos. ending with 73 are bat handle with 1/2" stem length; those ending with 25 are ball handle with 7/8" stem length. All have solder lug connections except *wire leads. All have 1/2"-32 threaded stem. Av. shgp. wt., 2 oz.

Stock No.	Mfr's Type	Action	Amperes		1-9, EACH	10-99, EACH	100 or More, EACH
			125V	250V			
34 B 175	110-73	SPST	6	3	39¢	35¢	25¢
34 B 092	110-25	SPST	6	3	47¢	43¢	30¢
34 B 177	112-73	SPDT	3	1	46¢	41¢	30¢
34 B 093	112-25	SPDT	3	1	54¢	49¢	35¢
34 B 178	216-73	DPST	3	1	62¢	56¢	40¢
34 B 094	216-25	DPST	3	1	71¢	64¢	46¢
34 B 179	316-73	DPDT	3	1	71¢	64¢	46¢
34 B 095	316-25	DPDT	3	1	78¢	71¢	51¢
34 B 096	2B802-73	SPST	6	3	54¢	49¢	35¢
34 B 097	2BK62-73	DPST	6	3	68¢	61¢	44¢
34 B 098	2BL62-73	DPDT	6	3	75¢	68¢	49¢
34 B 180	1111-16-73*	SPST	6	3	42¢	38¢	27¢

HEAVY-DUTY PLASTIC-TOGGLE AC SWITCHES

B Extremely compact AC switches for limited space applications. Require only 1/2" behind panels. Ideal for instrumentation and development use. Rated 15 amps at 125 v. and 7 1/2 amps at 250 v. Solder lug terminals. *Center off. 1/2"-32 threaded stem; 1/4" stem length. U.L. Approved. Shgp. wt., 2 oz.

Stock No.	Mfr's Type	Color	Action	1-9, EACH	10-99, EACH	100 or More, EA.
34 B 313	AA252-RD	Red	SPST	48¢	43¢	32¢
34 B 314	AB252-BL	Black	SPDT	54¢	49¢	35¢
34 B 315	AB252-RD	Red	SPDT	54¢	49¢	35¢
34 B 316	AC252-BL	Black	SPDT*	54¢	49¢	35¢
34 B 317	AC252-RD	Red	SPDT*	54¢	49¢	35¢

MOMENTARY SPST AC-DC TOGGLE SWITCH

C Type 110-M-NO-93. With trigger-bat handle. Ideal for instrumentation and test equipment use. Normally open. Lugs are silver-plated. AC-DC rating; 6 amps, 125 volts; 3 amps, 250 volts. Stem length, 1/2". Stem dia., 1/2"-32 thread. Shgp. wt., 3 oz.

34 B 149, 1-9, NET EACH.....	61¢	100 or More, EACH.....	68¢
10-99, EACH.....	61¢	100 or More, EACH.....	44¢

PUSH-BUTTON SWITCHES

D Heavy-duty, push-type momentary contact switches. Rated 10 amps, 125-250 v. AC. N.o., normally open; n.c., normally closed. Screw terminals. 1/2" dia. stem; 3/8" long. Shgp. wt., 3 oz.

Stock No.	Mfr's Type No.	Action	1-9, EACH	10-99, EA.	100 or More, EA.
34 B 397	170	SPST, n.c.	57¢	51¢	37¢

A-H&H LOCK SWITCH

Type 81715-L. Lock switch with key. SPST 3 amperes at 250 volts; 6 amperes at 125 volts. Sleeve diameter, 1/2". Will fit panels to 3/8" thick. Size, 1 1/4" x 1 1/2". The switch must be open to remove key. Use on power tools, appliances, etc., for added safety factor. Shgp. wt., 2 oz.



34 B 156, 1-9, NET EACH.....	1.44
10-99, EA., 1.30	100 or More, EA., 1.04

34 B 128, Extra key for above. Wt., 2 oz.	15¢
NET.....	15¢

Type 81715-LE. As above, but key removable in open or closed position.

34 B 158, 1-9, NET EACH.....	1.44
10-99, EA., 1.30	100 or More, EA., 1.04

STEVENS-WALDEN SPINTITE SWITCH WRENCHES

Specially designed spintite wrenches for easy installation of toggle switches. For this purpose, they are much more convenient than "regular" or general purpose wrenches. Feature a very deep recess to accommodate even bat-handle type toggle switches. Knurled inside surface tapered to accommodate different sizes of ring nuts. Wrenches have wood handles. Shgp. wt., 6 oz.

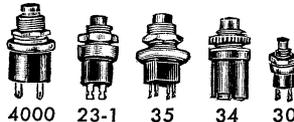


Type 3480. Specifically designed for use with A-H&H switches only.

46 N 056, NET EACH.....	2.58
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Type 3481. Specifically designed for use with Cutler-Hammer switches only.

46 N 167, NET EACH.....	2.58
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MOMENTARY PUSH-BUTTON TYPES

Series 4000. SPST. 1 1/2" x 5/16" dia. Solder terminals. 1/2 amp, 115 v. AC, resistive. 4 oz.
 34 B 870. Normally open; red button.
 50-99, EA., 53¢ 1-49, EA., 69¢

34 B 871. Normally closed; black button.
 50-99, EA., 53¢ 1-49, EA., 69¢

Series 23-1. Tiny push-button switch. SPST. 1 3/8" long; 1/2" dia. Solder terminals. 1/4 amp. 115 v. AC, resistive. Normally open. Wt., 2 oz.
 34 B 890. 50-99, EA., 64¢ 1-49, EA., 83¢

Series 35. DPST. 1 1/2" long; 3/8" dia. Solder terminals. 1/2 amp, 115 v. AC, resistive. Normally open. Red button. Shgp. wt., 4 oz.
 34 B 964. 50-99, EA., 90¢ 1-49, EA., 1.18

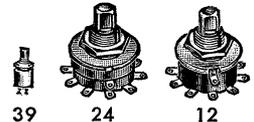
Series 34. Solderless wiring switch. SPST. Receptacles for A-MP #53 taper pins. 3/32" x 1/2" dia. 1/2 amp, 115 v. AC, resistive. Normally open. Red button. Shgp. wt., 4 oz.
 34 B 965. 50-99, EA., 1.01 1 3/4, EA., 1.32

Series 30. Subminiature; SPST 3/16" x 3/8" dia. Solder term. 1/10 amp. 115 v. AC. 2 oz.
 34 B 966. Normally open; red button.
 50-99, EA., 71¢ 1-49, EA., 93¢

34 B 967. Normally closed; black button.
 50-99, EA., 71¢ 1-49, EA., 93¢

Series 39. Ultra-miniature; SPST. 3/16" long; 1/4" dia. Solder term. 1/10 amp. 115 v. AC. resistive. Normally open. Red button. 2 oz.
 34 B 968. 50-99, EA., 75¢ 1-49, EA., 98¢

GRAYHILL MINIATURE SWITCHES



ROTARY TAP SWITCHES

Series 24. Designed for military and commercial applications requiring high degree of reliability. Offered in 10-position, 1 and 2-deck types; 1 pole per deck. Non-shorting contacts. Solder terminals. Break 1 amp or carry 5 amps, 115 v. AC, resistive. Dia., 1".
 1-Deck Type, 1 1/2" long. Wt., 1 oz.
 34 B 707. 50-99, EA., 2.85 1-49, EA., 3.72

2-Deck Type. 1 1/2" long. Wt., 1 1/2 oz.
 34 B 708. 50-99, EA., 3.86 1-49, EA., 5.05

Series 12. A fully enclosed quality-built tap switch requiring minimum panel space. Offered in 10-position, 1 and 2-deck types; 1 pole per deck. Non-shorting contacts. Solder terminals. Break 1 amp or carry 5 amps, 115 v. AC, resistive. Diameter, 1".
 1-Deck Type, 1 1/2" long. Wt., 2 oz.
 34 B 706. 50-99, EA., 1.38 1-49, EA., 1.81

2-Deck Type. 1 1/2" long. Wt., 3 oz.
 34 B 709. 50-99, EA., 3.07 1-49, EA., 4.02

3 to 10-Deck Series 12 and 24 available on special order. Write to our Industrial Division for quantity prices.

ROTARY SWITCH ACCESSORIES

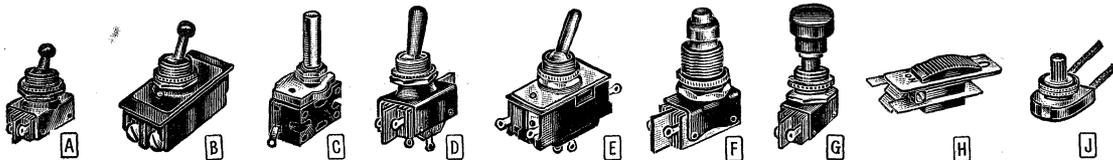
Non-Turn Washer. For series 5000, 12 and 24. Cadmium-plated brass. Shgp. wt., 1 oz. 3¢

34 B 723. NET..... 3¢

Internal Tooth Lockwasher. Series 5000, 12, 24. Steel, cadmium plated. Wt., 1 oz.

34 B 724. NET..... 3¢

Appliance and Miniature Switches



ARROW-HART & HEGEMAN APPLIANCE SWITCHES

BALL HANDLE TOGGLE SWITCHES

A *Indicates rating of 3 amps at 250 volts; 10 amps at 125 volts and 5 amps at 250 volts. All others are rated 3 amps at 125 volts and 1 amp at 250 volts. Momentary type. $1\frac{1}{2}$ " diameter shanks. Solder lug terminals except 34 B 104 and 34 B 107 which have screw terminals. U.L. Approved. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Action	Shank Length	1-9, EACH	10-99, EA.	100 or More, EA.
34 B 100	20994-BF	SPST*	$1\frac{1}{2}$ "	.50	.42	.34
34 B 101	21518-B	SPST*	$\frac{3}{4}$ "	.61	.50	.39
34 B 104	80323-BU	SPST*	$\frac{1}{2}$ "	.84	.68	.57
34 B 107	80638	DPDT†	$\frac{1}{2}$ "	3.42	2.77	2.31
34 B 110	21350-B	SPDT	$1\frac{1}{2}$ "	.74	.54	.44
34 B 127	21827-B	SPDT‡	$1\frac{1}{2}$ "	.93	.76	.63
34 B 120	20902-AM	DPST	$1\frac{1}{2}$ "	.74	.74	.51
34 B 130	20905-C	DPDT	$1\frac{1}{2}$ "	1.04	.85	.70
34 B 131	20905-BT	DPDT	$\frac{3}{4}$ "	1.14	.93	.77
34 B 132	20905-C	DPDT	$1\frac{1}{2}$ "	1.19	.96	.80
34 B 134	20905-BX	DPDT	$1\frac{1}{2}$ "	1.04	.85	.70

POWER TYPE TOGGLE SWITCHES

B Compact, toggle-operated power switches for motors and appliances. All rated 6 amps at 250 volts; 12 amps at 125 volts; 34 B 136 is also rated 1 HP, 250 volts. U.L. Approved. Bakelite case. Screw terminals. Shank, $1\frac{1}{2}$ " dia. $\frac{3}{8}$ " long. With mtg. nuts. Shpg. wt., 2 oz.; 20, 2 lbs.

Stock No.	Mfr's Type	Action	1-9, EACH	10-99, EACH	100 or More, EACH
34 B 135	80607	SPST	96c	78c	64c
34 B 136	80600	DPST			
34 B 137	80618	SPDT			

ROTARY SWITCHES

C Positive contact. U.L. Approved. All switches 125/250 volts. Threaded shank, $1\frac{1}{2}$ " dia., $\frac{3}{8}$ " long. Shaft, $\frac{1}{4}$ " dia., $\frac{1}{8}$ " long. Wt., 2 oz.

Stock No.	Mfr's Type	Action	Amps	1-9, EACH	10-99, EACH	100 or More, EA.
34 B 141	81715-G	SPST	6/3	1.22	.99	.82
34 B 143	81724-G	DPST	6/3	1.63	1.32	1.10
34 B 144	81727-G	DPDT	6/3	1.77	1.43	1.19

BAT HANDLE TOGGLE SWITCHES

Ruggedly built A-H and H bat handle toggle switches. (In Action column refers to Fig. D above, §Fig. E, §Fig. B. Underwriters' Laboratories Approved. All have bakelite insulation. Silver-plated lug terminals, except for 34 B 106 and 34 B 109 which have screw type terminals. Shank, $1\frac{1}{2}$ " diameter, $1\frac{1}{2}$ " long, except $1\frac{1}{4}$ " long. With mounting nuts. Shpg. wt., each switch 3 oz.; 20 switches, 3 lbs.

Stock No.	Mfr's Type	Action	Amps.	Volts	1-9, EACH	10-99, EA.	100 or More EA.
34 B 195	20994-EW	SPST†	3	125	.55	.45	.38
34 B 196	21350-BP	DPDT†	3	125	.70	.57	.47
34 B 197	20902-DN	DPDT†	3	125	.98	.79	.66
34 B 198	20905-GA	DPDT†	3	125	1.18	.96	.79
34 B 109	80607-BJ	SPST‡	12	125	.96	.78	.64
34 B 106	80600-CA	DPST†	15	125	1.50	1.35	1.2
34 B 103	82024-D*	DPDT†	6	125	1.50	1.22	1.00

PUSH-BUTTON SWITCHES

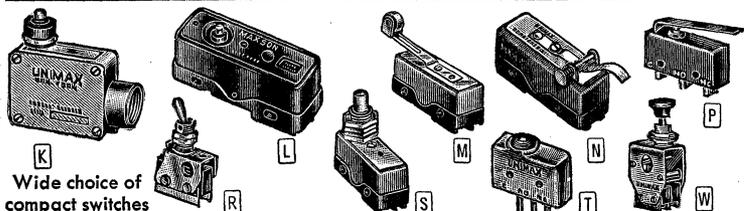
F Momentary contact. Indicates slow make and break type; †fast make and break type. 34 B 119 and 34 B 124 are normally closed, all others are normally open. Metal base, and $\frac{3}{8}$ " shank length, except 34 B 152, $\frac{1}{2}$ ". *Two-circuit type. ‡Same as 3392 but with black bakelite button. Shpg. wt., 3 oz.

34 B 118	3592†	SPST	3	250	.97	.78	.65
34 B 119	3392†	SP2	1	125	.70	.57	.47
34 B 124	3392-AE‡	SP2	1	125	.88	.71	.59
34 B 152	80630	DPST	12	125	1.71	1.39	1.15

G Type 86710-C. SPST push-button switch with snap-on bakelite button in red or black. Press button to close circuit; press to open. Rated at 3 amps, 250 volts; 6 amps, 125 volts. U.L. Approved. Threaded shank, $1\frac{1}{2}$ " dia. long. With mtg. nuts. Shpg. wt., each, 2 oz.; 20, $1\frac{1}{4}$ lbs.

34 B 161. Red.
34 B 162. Black. 100 or More, EA...72¢ 10-99, EA.87¢ EA...1.07
Type 86710. Same as type 86710-C push-button switch above, but less snap-on bakelite button. Shpg. wt., 2 oz.
34B160.100 or More, EA...59¢ 10-99, EA...74¢ EA...82¢

Type 3391-GL. Momentary contact. SPST normally open. 1 amp, 125 v. AC. U.L. Approved. Threaded shank, $1\frac{1}{2}$ " x $\frac{3}{8}$ ". With mtg. nuts, lugs and bakelite button. Shpg. wt., each, 2 oz.; 20, $1\frac{1}{4}$ lbs.
34 B 159. 100 or More, EA...50¢ 10-99, EA...59¢ EA...73¢



Wide choice of compact switches

UNIMAX SNAP-ACTION SWITCHES

Efficient snap-action switches for industrial applications. Require minimum space. Highly dependable switch actuators are attached to stainless steel "Adaptplates" except *actuators in switch cover. Rated 5 amp, 125 v DC and 20 amps, 125, 250, or 480 v., 60 cycle non-inductive AC. All switches SPDT. U.L. CSA

Approval. Metal clad units allow direct wiring into standard electrical conduit systems. U.P. to No. 18 wire can be used in terminals. Sizes: (1) $1\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{8}$ "; (2) $2\frac{1}{2}$ " x $1\frac{1}{2}$ " x $\frac{1}{8}$ "; (3) $2\frac{1}{2}$ " x $1\frac{1}{2}$ " x $\frac{1}{8}$ "; (4) $2\frac{1}{2}$ " x $1\frac{1}{2}$ " x $\frac{1}{8}$ "; (5) $2\frac{1}{2}$ " x $1\frac{1}{2}$ " x $\frac{1}{8}$ " x $1\frac{1}{2}$ "; (6) $3\frac{1}{2}$ " x $1\frac{1}{2}$ ". Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Fig.	Actuator and Operating Force	Micro Equiv.	Overall Size	NET EACH		
						1-9	10-19	20-49
34 B 750	*2HB-1	L	Basic pin type; 9-13 oz.	BZ-2R	1	1.47	1.32	1.20
34 B 751	2HB-1	L	Leaf spring type; 5 oz. max.	BZ-2RL	2	1.62	1.46	1.31
34 B 752	2HBW-1	M	Same with roller; 5 oz. max.	BZ-2RL2	1	2.11	1.90	1.71
34 B 755	*2HBT-1	.....	Leaf spring, hinged; 1-2.5 oz.	BZ-2RW	1	1.86	1.68	1.51
34 B 759	*2HBA-1	.....	Same with roller; 1-3.5 oz.	BZ-2RW2	3	2.35	2.12	1.90
34 B 764	2HBM-1	N	Safety interlock; 10 oz. max.	None	4	2.70	2.43	2.19
34 B 753	2HBQ-1	.....	Plunger, small; 9-13 oz.	BZ-2RS	5	1.81	1.63	1.47
34 B 754	2HBJ-1	S	Plunger, large; 9-13 oz.	BZ-2RQ1	2	3.38	3.05	2.74
34 B 721	KEB2HB-5	K	Boot plgr., metal clad; 9-24 oz.	BZ-2RQ2	6	5.93	5.34	4.80
34 B 781	KEJ2HB-5	S	Plunger, metal clad; 9-13 oz.	BZ-2RQ81	6	4.56	4.11	3.69

Subminiature Types. Snap action, fully enclosed SPDT switches. Rated 5-7 A, 125/250 v. non-inductive AC. Have U.L. CSA Approval.

USM5 conforms to applicable military specs. Sizes: (1) $\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{4}$ "; (2) $2\frac{1}{2}$ " x $1\frac{1}{2}$ " x $\frac{1}{2}$ "; (3) $1\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{4}$ ". Wt., 2 oz.

34 B 846	USM	Pin; 7 amps; 7 oz.	ISM1	1	1.37	.23	1.10
34 B 847 <td>USM-5</td> <td>.....</td> <td>Pin (Military); 5 amps; 7 oz. <td>ISM1</td> <td>1</td> <td>1.22</td> <td>.27</td> <td>1.14</td> </td>	USM-5	Pin (Military); 5 amps; 7 oz. <td>ISM1</td> <td>1</td> <td>1.22</td> <td>.27</td> <td>1.14</td>	ISM1	1	1.22	.27	1.14
34 B 848	USML	P	Leaf Spring; 6 amps; 7 oz. <td>JS-5, ISM1</td> <td>1</td> <td>1.52</td> <td>.37</td> <td>1.23</td>	JS-5, ISM1	1	1.52	.37	1.23
34 B 849	USMW	Leaf Spring/roller; 6 amps; 7 oz. <td>JS-5, ISM1</td> <td>1</td> <td>1.86</td> <td>1.68</td> <td>1.50</td>	JS-5, ISM1	1	1.86	1.68	1.50
34 B 898	USMB-1	R	Toggle; 7 oz. <td>GAT1</td> <td>1</td> <td>3.67</td> <td>3.30</td> <td>2.94</td>	GAT1	1	3.67	3.30	2.94
34 B 748	2MK	W	Plunger; DPDT; 2 oz. <td>.....</td> <td>3</td> <td>7.35</td> <td>6.61</td> <td>6.08</td>	3	7.35	6.61	6.08
34 B 747	EA1	T	Sealed; pin plunger; 5-17 oz. <td>ISE1</td> <td>2</td> <td>5.98</td> <td>5.38</td> <td>4.84</td>	ISE1	2	5.98	5.38	4.84

UNIMAX DESIGN KIT

Contains two Type 2HB-1 basic switches, one Type 2HBT-23-1 switch, 3 different "Adaptplates." Hardware included. Wt., 12 oz.
34 B 760. NET.....4.25

GENERAL-PURPOSE SWITCHES

H Type 81569 Slide Switch. SPST indicating switch designed for use in instrument, control panel, and appliance applications. Screw type terminals. Requires $1\frac{1}{2}$ " x $\frac{1}{2}$ " cutout for mounting. Ratings: 3 amps at 250 volts; 6 amps at 125 volts. Size, $2\frac{1}{4}$ " x $\frac{3}{4}$ ". Bakelite case. Underwriters' Laboratories Approved. Shpg. wt., 2 oz.; 20, $1\frac{1}{4}$ lbs.
34 B 153. 1-9, NET EACH.....91¢
10-99, EACH.....74¢ 100 or More, EA. 61¢

J Type 41047 Rotary Canopy Switch. SPST switch for lamps and small appliances. Rated 1 amp at 250 volts; 3 amps at 125 volts. Has $\frac{1}{8}$ " stem; $\frac{3}{8}$ " diameter. With 6 inch leads attached. Underwriters' Laboratories Approved. Shpg. wt., each, 2 oz.; 20, $1\frac{1}{4}$ lbs.
34 B 165. 1-9 NET EACH.....48¢
10-99, EA.....44¢ 100 or More, EA.....40¢

Type 3597 Midget Push-Pull Switch. SPST switch, similar to Fig. F. Plunger-type actuator; pull "On", push "Off". Metal button and laminated base. Solder-lug type terminals. Rated at 3 amps 250 volts. Requires $1\frac{1}{2}$ " x $\frac{1}{2}$ " mtg. hole. $1\frac{1}{2}$ " x $1\frac{1}{2}$ ". Wt., 2 oz.
34 B 154. 1-9, NET EACH.....81¢
10-99, EA.....64¢ 100 or More, EA.....55¢

EAGLE FLUSH MOUNT SWITCH

Pushbutton Switch. For signaling bells, lights, etc. Pearl button. Screw terminals. For $\frac{3}{8}$ " hole. Shpg. wt., 2 oz.
55 B 196. 1-9, NET EACH.....29¢
10-up, EACH.....26¢

INDICATING SWITCH PLATES

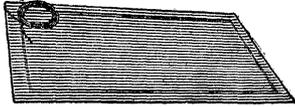
X For toggle or rotary switches. $1\frac{1}{2}$ " dia. polished aluminum plate. Has $\frac{1}{2}$ " hole. Etched on black background. Wt., 2 oz.
34 B 151. NET.....39¢
20-99, EACH.....36¢

Y For Toggle Switches. Nickel-plated "On-Off" plate. $\frac{1}{2}$ " hole. Shpg. wt., 4 oz.
34 B 145. Package of 25.....50¢

Special-Purpose Switches

INDUSTRIAL STEP-ON AND FOOT SWITCHES

Conceals SPST Switch



"SWITCHMAT" STEP-ON SWITCH

Stepping on the Switchmat closes circuit which may be used to ring bells, operate door-opener, actuate electric counter, control machinery, etc. Durable corrugated vinyl-plastic mat conceals SPST switch (normally off). Designed for use on such surfaces as bare floors and platforms. Entire mat, except for narrow border, is sensitive to any force over 5 lbs. Mats are resistant to wear, and to oil, acid and most common chemicals—will provide long, trouble-free operation indoors or out. Controls 110-volt circuit with non-inductive loads up to 1000 watts. Can be used with loads of up to 1000 watts when Switchmat control box listed below is employed. Brown color; choice of two sizes, 5/8" thick. Both are supplied 10-ft. leads.

78 BX 355, 14x23", 6 1/2 lbs. NET.....15.20

78 BX 356, 18x30", 10 lbs. NET.....21.60

Control Box. Relay control unit for use with Switchmat or other switch. Handles up to 1000 watts at 110-120 v., 60 cycle AC. Provides 6 v. AC for switch circuit. Has two outlets, one for normally on and one for normally off operation of equipment. Special 2-prong switch is furnished for use with Switchmat. Has 6-ft. AC cord. Size, 3x4x5". For operation from 110-120 volts, 60-cycle AC. Shpg. wt., 2 1/2 lbs.



78 B 357, NET.....12.40

GENERAL CONTROL FOOT SWITCHES

Model MA. Small, lightweight foot switch designed for applications where high operating speed and minimum fatigue are important. Ideal for office and light industrial applications. Switch is SPDT with spring return. Supplied with non-skid base; holes for floor mounting. Set for 1/2 lb. operating force. Equipped with BX connector. Contacts rated 10 amps at 125 v. and 5 amps at 250 v. AC, non-inductive load. Housing is cast iron. 1 3/4 x 4 1/4". Shpg. wt., 1 3/4 lbs.



78 B 374, NET.....4.60

Model MI-25. Heavy-duty foot switch designed specifically for industrial applications. Overlapping treadle makes it ideal for operation with work-shoes. Switch has SPDT contact arrangement—first press transfers contacts, second press restores to original position. Rated 12 amps at 125 v. and 6 amps at 250 v. AC, non-inductive load. Set for 10 lbs. operating force. With BX connector; holes for floor mounting. 3x4x6 1/4". Shpg. wt., 3 1/2 lbs.



78 B 370, NET.....11.25

Model MI-23. As above, but with spring return. Has contacts and contact ratings of Model MA listed above. Shpg. wt., 3 1/2 lbs.

78 B 371, NET.....9.80

LECTROMATIC FOOT SWITCH

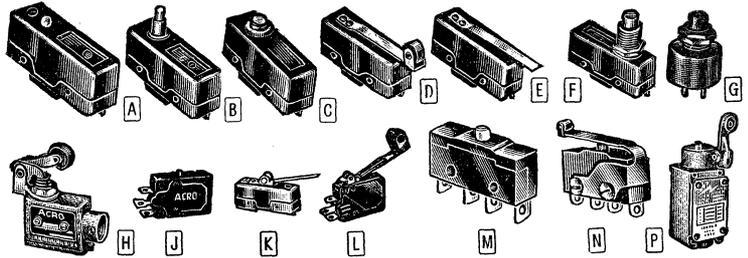
Model 1010. Snap-action foot switch. Provides a faster, more efficient means of switching electric motors and machines on and off. Ideal for controlling a wide variety of power tools, riveting and welding units, photographic equipment, etc.



Promotes greater safety because operator can instantly stop machine by releasing pressure on switch. Saves time and extra hand movement. Easy to install—just plug device to be controlled into the special socket and plug switch cord into AC wall socket. Normally-open SPST switch rated 10 amps, 115v. AC.

Housed in durable metal case, with anti-skid pad on bottom, rubber foot tread on top. 3 3/4 lbs. operating force. Size, 4 1/4 x 3 1/4". With 6-ft. cord. Shpg. wt., 1 lb.

78 B 382, NET.....5.48



ACRO SNAP-ACTION SWITCHES

Current ratings are given at 125 volts AC. Pre-travel given in inches; operating force in ounces, except *grams. All switches are SPDT except †SPST normally open, ‡SPST normally closed, †SP4 and ††SP2. †With wire-leaf actuator; **flat-leaf actuator; ††with mounting bracket. ‡‡Mechanically and electrically equivalent, but not interchangeable. All have solder terminals except †screw. Av. shpg. wt., 4 oz. (except fig. P, 2 1/2 lbs.)

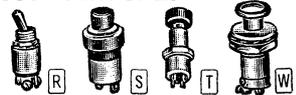
Stock No.	Mfr's Type	Fig.	Oper. Force	Pre-travel	Size	Amps	NET EACH			
							1-9	10-19	20-49	50-Up
35 B 016	TD-48L	K	12*	3/32	2 7/32x1 1/16x1 1/16"	10	2.02	1.82	1.62	1.41
35 B 009	1MD1-1A	J	3-6	1/2		10	1.45	1.31	1.16	1.02
35 B 018	2MD1-1A	J	6-10	1/2		10	1.45	1.31	1.16	1.02
35 B 019	2MD3-1A	J	6-10	1/2		10	1.45	1.31	1.16	1.02
35 B 020	1CMD1-2AXX	...	20-27*	.040		3	1.45	1.31	1.16	1.02
35 B 021	2CMD1-2AXX	...	33-44*	.040	5 3/4x9 3/8x1 3/8"	3	1.45	1.31	1.16	1.02
35 B 024	1CMD1-2AXX-A22	J†	2.5*	.750		3	1.75	1.58	1.40	1.23
35 B 030	2CMD1-2AXX-A24	J**	4*	.750		3	1.75	1.58	1.40	1.23
35 B 008	1MD1-1A-118	J††	1 1/2	.040		10	1.85	1.67	1.48	1.30
35 B 038	1MD1-1A-118M	L	2	.040		10	2.05	1.85	1.64	1.44
35 B 028	3D05-SP	G	10-15	.06-.09	3/8x2 3/8" dia.	†12	1.75	1.58	1.40	1.23
35 B 029	3D05-5P	G	10-15	.03-.06	3/8x2 3/8" dia.	†12	1.75	1.58	1.40	1.23
35 B 03	ME-51PDB-R	...	3-6	.185	1/2x1 1/4x3/8"	10	1.70	1.63	1.50	1.49
35 B 130	260-0001-00	...	8	.350	1/2x3/4x3/8"	†#10	1.50	1.35	1.20	1.05
35 B 131	260-0008-00	N	14-20	.100	1/2x3/4x3/8"	†#10	1.99	1.79	1.59	1.39

SWITCHES WITH MICRO EQUIVALENTS

Stock No.	Mfr's Type	Micro Equiv.	Fig.	Oper. Force	Pre-travel	Size	Amps	NET EACH			
								1-9	10-19	20-49	50-Up
35 B 013	††RD-5L	BZ-2RL	...	4-5	1/16	5 3/8x1 3/4x1 1/8"	10	1.58	1.42	1.26	1.11
35 B 014	††RD-2M	BZ-2RL2	...	4-5	1/16		10	2.02	1.82	1.62	1.41
35 B 285	††RD-1A-1S	BZ-2R-A2	A	9-13	.010-.025		15	1.56	1.40	1.25	1.09
35 B 286	††RD-2M-1S	BZ-2R-A2	D	5	5/32		15	2.11	1.90	1.75	1.48
35 B 287	††RD-5L-1S	BZ-2R-A2	E	4-5	1/16		15	1.72	1.55	1.38	1.20
35 B 288	††RD-1P-1S	BZ-2R-A2	F	9-13	.010-.025	1x1 1/16x1 1/16"	15	3.34	3.01	2.67	2.34
35 B 289	††RD-70-1S	BZ-2R-A2	C	9-13	.010-.025		15	1.88	1.69	1.50	1.32
35 B 290	††RD-10-1S	BZ-2R-A2	B	9-13	.015-.030		15	1.88	1.69	1.50	1.32
35 B 291	††RD-LW28-1S	BZ-2RW82-A2	...	3.5	156-.28		15	2.42	2.18	1.94	1.69
35 B 293	††RD-LW229-1S	BZ-2RW82-A2	...	6	156		15	2.42	2.18	1.94	1.69
35 B 294	††RD-LW8-1S	BZ-2RW80-A2	...	2.5	128-.040		15	1.94	1.75	1.55	1.36
35 B 280	††S-RD-7PN-1S	BZE-2RN	...	9-24	.078		15	5.70	5.13	4.56	3.99
35 B 281	††S-RD-8PQ2-1S	BZE-2RQ2	H	10-18	1/64	1x1 3/4x2 3/8"	15	7.65	6.89	6.12	5.36
35 B 282	††S-RD-8PQ1-1S	BZE-2RQ1	...	9-13	.010-.025		15	4.60	4.13	3.66	3.20
35 B 283	††S-RD-6PQ1-1S	BZE-2RQ1	...	9-13	.010-.025		15	4.40	3.96	3.52	3.08
35 B 132/242-0003-03	1M1L1§§	...	P	48	.826	5 3/8x1 3/4x1 1/8"	†20	11.90	11.90	11.90	11.90

HETHERINGTON SNAP-ACTION SWITCHES

Rugged, precision-made switches for exacting aviation and industrial applications—provide high dependability under severe conditions of shock, temperature and humidity. Feature positive cam-roller snap action and extremely compact cylindrical design. All contact surfaces are of heavy silver overlay on copper or brass. Av. wt., 3 oz.



TOGGLE TYPES

Ⓡ T-1003 meets MIL-S-6745 requirements for military aircraft—withstands 50 G's shock, —65 to +160° F. temps. T-2104 is a miniature version; T3103 a subminiature version.

Stock No.	Type	Action	Amps		Terminals	Mtg. Hole	Overall Depth Behind Panel	Body Dia.	NET EACH		
			28 VDC	115 VAC					1-9	10-24	25-Up
33 B 800	T1003	SPDT	20	10	Screw	1 1/2"	1 1/2"	3/4"	3.22	2.74	2.42
33 B 801	T2104	SP2	10	5	Lug	3/4"	1 1/2"	1 1/2"	3.63	3.09	2.72
33 B 802	T3103	SPDT	5	2.5	Lug	3/4"	1 1/2"	1 1/2"	4.06	3.45	3.05

PUSH-BUTTON TYPES

Ⓢ Momentary action. Series W meet MIL-S-6743 (dwg. MS-25089-3) specs. for military aircraft. Others U.L. Approved. All without flange, except *flange, †rounded flange.

Stock No.	Type	Action	Amps		Terminals	Mtg. Hole	Overall Depth Behind Panel	Body Dia.	NET EACH			
			28 VDC	115 VAC					1-9	10-24	25-49	50-Up
33 B 806	W103UB6*	SP2	10	...	Screw	3/8"	1 1/8"	9/16"	5.43	4.62	4.07	3.81
33 B 807	W103PB6†	SP2	10	...	Screw	3/8"	1 1/8"	9/16"	5.43	4.62	4.07	3.81
33 B 808	C100P8†	SPST (NO)	17	15	Screw	3/8"	2 1/8"	9/16"	3.76	3.20	2.82	2.64
33 B 809	C200P3*	SP2	10	15	Screw	3/8"	2 1/8"	9/16"	4.36	3.71	3.27	3.06
33 B 810	C1006	SPST (NO)	17	15	Screw	3/8"	1 3/8"	9/16"	3.01	2.56	2.26	2.11
33 B 811	C2006	SP2	10	15	Screw	3/8"	1 3/8"	9/16"	3.22	2.99	2.78	2.63
33 B 812	B2001	SPST (NO)	...	...	Lug	3/8"	4 7/8"	9/16"	2.09	1.78	1.57	1.47
33 B 813	B2002	SPST (NO)	...	...	Lug	3/8"	4 7/8"	9/16"	2.09	1.78	1.57	1.47

Ⓣ B5023. Silent, smooth-acting, non-snap, momentary switch for calculators, computers, etc. SP2, non-shorting. Rated 3 amps @ 30 VDC. Min. life, 100,000 operations. 1/2 lb. operating force. 1/4" button travel. 1/2" mtg. hole, 3/16" behind panel, 3/8" body dia.

33 B 814. 1-9, NET EACH.....3.78 10-24, EACH.....3.21 25-Up, EACH.....2.84

"SWITCHLITE" PUSH-BUTTON TYPES

Ⓜ Switches with lamps in buttons. All push on-pull off, except *momentary. Lamps independent, except †operates with switch on aux. contact. 28-v. lamps. Rated @ 28 VDC.

No.	Type	Action	Amps.	Terminals	Mtg. Hole	Behind Panel	Body Dia.	NET EACH		
								1-9	10-24	25-Up
33 B 803	†A300	SPST (NO)	15	Lug	3/8"	1 7/8"	1 7/8"	7.52	6.39	5.64
33 B 804	*A3531	SPST (NO)	10	Screw	3/8"	1 1/2"	1 1/2"	11.13	9.46	8.35
33 B 805	A3541	SPST (NO)	10	Screw	3/8"	1 1/2"	1 1/2"	11.13	9.46	8.35

Rotary and General Purpose Switches

NEW knight PRINTED CIRCUIT SWITCHES

Plugs
in



- Cut Labor & Wiring Costs
- Adaptable To Any Circuit
- Custom Types Available

Revolutionary development in rotary switches; increases production efficiency and reduces costs. Employ standard switch mechanism with printed circuit leads which terminate in prongs at the wafer edges.

Plug directly into printed circuit board... then dip solder. Requires only a single bench

position and one operator. Order custom made—with any number of single or double-faced wafers, with or without contact jumpers, in any shaft length, with any spacing between wafers.

Wafers: XXXP phenolic. **Rotation:** 360° in either direction. **Mounting:** 3/8" diameter threaded bushing, 3/8" long. **Shaft:** 1/4" diameter, 1 1/2" long. **Contact Rating:** 2 amps at 15 volts DC; 150 ma at 110 volts AC. All models listed are single pole, non-shorting. Ganged switches have 1/2" spacing between wafers. Av. shpg. wt., 4 oz.

7 POSITION:

11 POSITION:

Stock No.	No. of Wafers	Pts. Ea.	Wafer	NET EA.	Stock No.	No. of Wafers	Pts. Ea.	Wafer	NET EA.
34 B 342	1	8		2.59	34 B 345	1	12		2.99
34 B 343	2	8		3.54	34 B 346	2	12		4.69
34 B 344	4	8		5.46	34 B 347	4	12		7.25

MANUFACTURERS: Allied can supply Knight printed-circuit rotary switches in any quantity. Custom switches for specific applications are available on special order. Write Industrial Division for quantity price quotation.



JBT ROTARY SWITCHES

Sturdily constructed rotary selector switches. Made of molded bakelite, with rigid 3-post deck suspension. Current-carrying capacity, 1 amp; momentary, 5 amps. Rated 2000 rms volts between contacts and ground, except 6DT types, 1500 v. rms. With knob. Av. shpg. wt., 6 oz.

CONTINUOUS-ROTATION SWITCHES

Continuous rotation type, except *6-pole, double-throw. Type MS-14 has 13 circuits and 1 "off" position per deck. Angular indexing, 25° 43'. MS-20 has up to 19 circuits and 1 "off" position per deck. Letter B in Type Number indicates bonded construction, using cured laminations for ruggedization, shock-proofing and further enclosure. Non-shorting.

Stock No.	Mfr's Type	Gangs	Total Poles	Positions Per Pole	Depth	NET EACH
34 B 950	MS-14B-1	1	1	14	13 1/2"	1.96
34 B 950	MS-14B-1	1	1	14	13 1/2"	2.30
34 B 951	MS-14-2	2	2	14	1 1/2"	2.50
34 B 951	MS-14B-2	2	2	14	1 1/2"	3.18
34 B 952	MS-14-3	3	3	14	1 1/2"	3.04
34 B 952	MS-14B-3	3	3	14	1 1/2"	4.07
34 B 953	MS-14-4	4	4	14	1 1/2"	3.97
34 B 953	MS-14B-4	4	4	14	1 1/2"	5.34
34 B 954	MS-14-6	6	6	14	2 3/8"	5.78
34 B 954	MS-14B-6	6	6	14	2 3/8"	7.84
34 B 955	MS-20-1	1	1	20	1 1/2"	2.50
34 B 955	MS-20B-1	1	1	20	1 1/2"	2.84
34 B 955	*MS-20-1-6DT	1	6	2	1 1/2"	3.18
34 B 956	*MS-20B-1-6DT	1	6	2	1 1/2"	3.53
34 B 956	MS-20-2	2	2	20	1 1/2"	3.18
34 B 957	MS-20B-2	2	2	20	1 1/2"	3.87
34 B 958	MS-20-4	4	4	20	1 1/2"	5.24
34 B 958	MS-20B-4	4	4	20	1 1/2"	6.61
34 B 959	MS-20-6	6	6	20	2 3/8"	7.40
34 B 959	MS-20B-6	6	6	20	2 3/8"	9.46



LAMINATED ROTARY SWITCHES

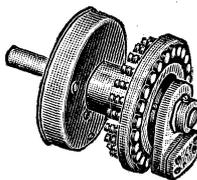
14 and 20-position type instrument switches. Rigid, 3-post deck suspension gives added strength. Both types include "off" position. Continuous rotation. Current ratings (not make or break): normal, 1 amp; momentary 5 amps. Supplied with knob.

Stock No.	Mfr's Type	Gangs	Total Poles	Pos. per Pole	Shorting or Non-Shorting	Depth	NET EACH
34 B 258	SS-14-1	1	1	14	N-S	1 3/8"	1.86
34 B 260	SS-14-1S	1	1	14	S	1 3/8"	1.99
34 B 262	SS-14-2	2	2	14	N-S	1 3/8"	2.30
34 B 263	SS-14-2A	2	2	14	S	1 3/8"	2.50
34 B 264	SS-14-2S	2	2	14	S	1 3/8"	2.40
34 B 266	SS-14-3	3	3	14	N-S	1 1/2"	2.40
34 B 268	SS-14-4	4	4	14	N-S	1 1/2"	3.58
34 B 270	SS-20-1	1	1	20	N-S	1 3/8"	2.40
34 B 273	SS-20-2	2	2	20	N-S	1 1/2"	2.99
34 B 277	SS-20-6	6	6	20	N-S	2 3/8"	6.81

ETCHED DIAL PLATES. For the JBT rotary switches listed above. Raised bright metal numerals are easy to read against the dull black finish of the dials. Diameter, 2 3/4". Shpg. wt., 1 oz.

Stock No.	Mfr's Type	Calibration	Angular Indexing	EACH
34 B 960	EP-13	Off thru 13	25° 43'	23c
34 B 961	EP-14	1 thru 14	25° 43'	
34 B 962	EP-19	Off thru 19	18°	
34 B 963	EP-20	1 thru 20	18°	

DAVEN ADJUSTABLE-STOP SWITCHES



Adjustable-stop rotary switches designed to provide high flexibility in circuit development applications. Ideal for use in laboratory work, breadboard setups, etc., where the exact number of switch positions may be changed later.

Feature large, silver-alloy contacts and slip rings; enclosed, knee-action, silver-alloy rotor blades; machined dielectric, stainless steel detent and shaft assembly; and gold-flashed, turret type terminals. Breakdown voltage between contacts and slip ring is 3000 V.

Meet and exceed MIL-S-3786, MIL-E-5272 and MIL-T-945A where applicable. Capacity (not make and break), 15 amps. Size, 1 3/4" diameter and 2" long including 1/4" diameter x 1 1/8" shaft. *Shorting; others non-shorting. Av. shpg. wt., 1 1/4 lbs.

Stock No.	Mfr's Type	Poles	Positions (Maximum)	NET EACH
35 B 374	*11-CM-24A	1	24	9.90
35 B 375	*21-CM-12A	2	12	10.20
35 B 376	*31-CM-8A	3	8	10.50
35 B 377	*41-CM-6A	4	6	10.80
35 B 378	11-CB-12A	1	12	9.90
35 B 379	21-CB-6A	2	6	10.20
35 B 380	31-CB-4A	3	4	10.50
35 B 381	41-CB-3A	4	3	10.80
35 B 382	*12-CM-32A	1	32	9.90
35 B 383	*21-CM-16A	2	16	10.20
35 B 384	*32-CM-10A	3	10	10.50
35 B 385	*42-CM-8A	4	8	10.80
35 B 386	12-CB-16A	1	16	9.90
35 B 387	22-CB-8A	2	8	10.20
35 B 388	32-CB-5A	3	5	10.50
35 B 389	42-CB-4A	4	4	10.80



OHMITE POWER TAP SWITCHES

All-ceramic, power tap switches. Non-shorting, single-pole type. The 111 is rated at 10 amps, 150 volts, AC. Dia., 1 1/2". The 212 is rated at 15 amps, 150 volts, AC. Dia., 2 1/4". Model 312 is rated at 25 amps, 300 volts, AC, 150° between taps. Dia., 3 3/4". *Two-in.-tandem types; rated same as single types. Shpg. wt., 111, 5 oz.; 212, 10 oz.; 312, 1 lb. All are U.L. Approved.

MODEL 111

MODEL 212

Stock No.	Taps	Rotation	NET EACH	Stock No.	Taps	Rotation	NET EACH
34 B 226	2	30°	2.65	34 B 238	3	60°	6.56
34 B 227	3	60°	2.65	34 B 233*	3	60°	18.35
34 B 228*	3	60°	10.29	34 B 239	4	90°	6.56
34 B 228	4	90°	2.65	34 B 232*	4	90°	18.35
34 B 229	5	120°	2.70	34 B 240	5	120°	6.82
34 B 220*	5	120°	10.50	34 B 241*	6	150°	6.82
34 B 230	6	150°	2.70	34 B 321*	6	150°	18.87
34 B 231	7	180°	2.82	34 B 242	7	180°	7.09
34 B 232	8	210°	2.82	34 B 243	8	210°	7.09
34 B 233	9	240°	2.84	34 B 244	9	240°	7.32
34 B 234	10	270°	2.94	34 B 245	10	270°	7.32
34 B 235	11	300°	3.03	34 B 247	12	330°	7.59
34 B 293*	11	300°	11.61				

MODEL 312

34 B 279	3	60°	9.59	34 B 273	9	240°	10.35
34 B 278	4	90°	9.58	34 B 272	10	270°	10.35
34 B 277	5	120°	9.82	34 B 271	11	300°	10.58
34 B 276	6	150°	9.82	34 B 270	12	330°	10.58

See page 231 for 30° type switch plates.

FEDERAL ANTI-CAPACITY SWITCHES



Quick make-and-break type, positive-action switches. All normally open. Lever action is cam-roller type, with graphite-impregnated bearing turning on tool-steel axes. Provides smooth, easy action under all atmospheric conditions. Round and flat master spring blades are silver-plated phosphor bronze with pure silver contacts. Insulating block is molded bakelite; chrome faceplate. Aluminum frame, 2 1/2x3 3/4". Av. shpg. wt., 5 oz.

Stock No.	Mfr's Type	Action	NET EACH
34 B 480	1427	DPST	2.79
34 B 481	1425	DPDT	2.79
34 B 482	1424	4PDT	2.86
34 B 483	12494	8PDT	6.20

ECONOMY AC-DC SLIDE SWITCHES



Cadmium-plated steel housing. Size, 3 3/8" wide x 1 1/8" long. Mounting centers, 1 1/8". Type SS-110-S is heavy duty; 6 amps at 125 volts; 3 amps at 250 volts. Type SS-6 has 3/8" bevel trigger with prong guide, solder lug terminals, spring return. Type SS-110-S has screw terminals; all others have hot-tinned solder lugs for easy soldering. For special pricing for quantities over

50, write for quotation. U.L. Approved. Av. shpg. wt., 3 oz.

Stock No.	Mfr	Mfr's Type	Action	Amps	1-9 EACH	10-24 EACH	25-49 EACH
34 B 491	Wirt	SW724	SPDT	0.75	22c	20c	18c
34 B 492	Wirt	SW725	DPST	0.5	22c	20c	18c
34 B 148	Carling	S-110-S	SPST	6	43c	39c	28c
34 B 421	Carling	S-116	SP2 Cir.	3	51c	46c	33c
34 B 422	Carling	S60A	SPST	4	9c	8c	6c
34 B 423	Carling	S60B	SPDT	4	10c	9c	7c
34 B 496	Stackpole	SS-6	3PDT	0.5	30c	27c	24c

Switchcraft Switches

LEV-R TYPE SWITCHES

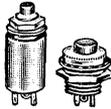
Ultra-compact lever-action switches. Silver contacts, rated at 3 amps, 120 volts, non-inductive load. Length, 3 1/4"; width 3/8". § n.o. means normally open; n.c., normally closed. *3-position type. †Types 3034 and 3034L are operated to close either of two circuits keeping the other open. ‡Types 3035 and 3035L are operated to open one of two circuits keeping other closed. Require 1 1/2" mtg. hole. Shpg. wt., 3 oz.



Spring Return		Locking		Action§		NET EACH		
Stock No.	Type	Stock No.	Type	Poles	Diag.	1-49	50-99	100-UP
34 B 465	3002	34 B 471	3001L	SPST, n.o.	I	1.15	.96	.88
34 B 454	3001	34 B 455	3002L	SPST, n.c.	II	1.15	.96	.88
34 B 466	3003	34 B 472	3003L	SPDT, n.o.	III	1.32	1.11	1.01
34 B 467	3004	34 B 473	3004L	DPST, n.o.	IV	1.47	1.22	1.13
34 B 456	3005	34 B 457	3005L	DPST, n.c.	V	1.47	1.22	1.13
34 B 468	3006	34 B 474	3006L	DPDT, n.o.	VI	1.52	1.35	1.24
34 B 485	3009	34 B 484	3009L	3PDT	VII	2.00	1.67	1.53
34 B 469	*3033	34 B 475	*3033L	SPDT, n.o.	VIII	1.47	1.22	1.13
34 B 458	*3034	34 B 459	*3034L	DP 2-Ckt †	IX	1.53	1.27	1.17
34 B 464	*3035	34 B 477	*3035L	DP 2-Ckt †	IX	1.53	1.27	1.17
34 B 478	*3036	34 B 479	*3036L	DP 2-Ckt †	X	1.71	1.42	1.31
34 B 470	*3037	34 B 476	*3037L	DPDT, n.o.	XI	1.73	1.45	1.33

NEW "BUTTON" SWITCHES

Unusually small, momentary-action push-button switches. Enclosed in metal housing; black or red plastic button. 903 and 913 are 1/2" long; fit 1/2" hole. 923 and 933 are 3/8" long; fit 1/4" hole. Mounting: *903, 903D, 913, 913D are for behind-panel mounting; †Types 923, 923D, 933, 933D mount from front of panel. ‡Rated at 250 ma, non-inductive load, AC (30 watts maximum). Shpg. wt., 2 oz.



Stock No.		Type (Red)	Stock No.	Type (Black)	Action		NET EACH		
Stock No.	Type	Stock No.	Type	Poles	Diag.	1-49	50-99	100-UP	
35 B 414	*903	35 B 418	*913	SPDT	III	.88	.73	.68	
35 B 415	*903D	35 B 419	*913D	SPDT	XII	.88	.73	.68	
35 B 416	*923	35 B 420	*933	SPDT	III	1.03	.86	.79	
35 B 417	*923D	35 B 421	*933D	SPDT	XII	1.03	.86	.79	

NEW CORD-TYPE PUSH-BUTTON SWITCHES

Specialty designed, hand-held switch for use on control cords. Consists of a Type 903, 903D, 913, or 913D momentary-action "button" switch (above), threaded into one end of a bright nickel-plated sleeve. A handsome, easy-to-operate switch for remote control of recorders, lights, counters, many other devices. Sleeve is 1/4" diameter and 2 3/8" long. Shpg. wt., 4 oz.



Stock No.		Type (Red)	Stock No.	Type (Black)	Action		NET EACH		
Stock No.	Type	Stock No.	Type	Poles	Diag.	1-49	50-99	100-UP	
35 B 422	E903	35 B 424	E913	SPDT	III	1.47	1.22	1.13	
35 B 423	E903D	35 B 425	E913D	SPDT	XII	1.47	1.22	1.13	

"TINI-SWITCHES"

Subminiature push-button switches for limited space applications. Ideal suited for use in microphony, radio and automotive test instruments, inter-communication systems, electro-therapy equipment, etc. Quality constructed throughout. 1/4" threaded shaft; 1 3/4" long. For low-level currents only. Require 3/8" behind panel. *n.o. means normally open; n.c., normally closed. Shpg. wt., 3 oz.



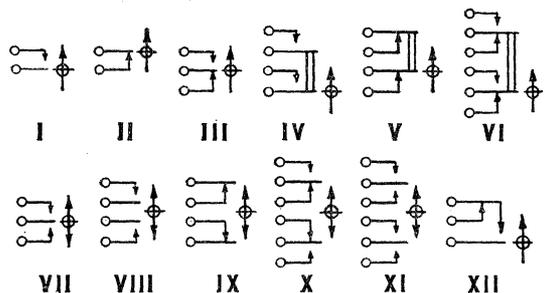
Stock No.		Type (Red)	Stock No.	Type (Black)	Action*		NET EACH		
Stock No.	Type	Stock No.	Type	Poles	Diag.	1-49	50-99	100-UP	
34 B 831	951	34 B 834	961	SPST n.o.	I	53c	44c	41c	
34 B 832	952	34 B 835	962	SPST n.c.	II	53c	44c	41c	
34 B 833	953	34 B 836	963	SPDT n.c.	III	59c	49c	45c	

STACK SWITCH KIT

Model K-101. Kit of component parts for assembling or repairing stacking switches. Designed to speed the assembly of engineering samples in the lab, and maintenance men in the field, and save time in general replacement. Ideal for mechanical engineers and coin-machine servicing. Used in relays, remote control units, electronic organs, etc. Kit consists of 74 springs in 9 different thicknesses, over 115 phenolic spacers and insulators in 7 variations of design, hard-rubber insulating tubing, two different sets of stack assembling pins, two roller assemblies, assorted contacts, etc.—everything needed for repair or assembly of switches is supplied in one package. Shpg. wt., 1 1/2 lbs. 34 B 837 NET..... 9.70

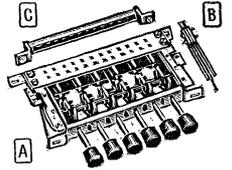


SWITCHCRAFT SCHEMATIC DIAGRAMS



PUSH-BUTTON SWITCH ASSEMBLIES

A unique development in push-button switch units. Permit easy assembly of custom switches to meet individual requirements in laboratory and test equipment, pilot machines, control panels, etc. Each unit consists of the following items which are ordered separately; frame with push-buttons; individual switches which are installed in the frame; and lockout-bar. Purpose of the lockout-bar is to prevent the operation of more than one button at a time. Switches may be assembled to provide any of these three basic types of operation:



Interlock: Pressing any button or group of buttons will release previously depressed (lockout bars can be used to allow pressing only one button at a time).

Non-locking: Momentary action (no interaction between buttons).

All-lock: Pressing button does not release button previously depressed (order frame with extra button to serve as release button).

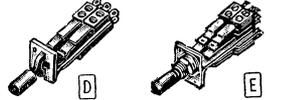
In addition, momentary and either inter-lock or all-lock can be combined in one assembly. Fine silver contacts, rated 3 amperes or 300 watt maximum, non-inductive load. Use where circuit requirements call for circuit to be broken before next circuit is made.

(A) Multiple Push-Button Frames									
Stock	Type	Buttons	Ctrs.	Lbs.	1-49, EA.	50-99, EA.	100-Up, EA.		
35 B 400	7200	2	2 1/4"	1/2	5.00	4.16	3.83		
35 B 401	7400	4	3 3/8"	1/2	7.06	5.88	5.40		
35 B 402	7600	6	4 3/8"	1	9.41	7.84	7.20		
35 B 403	7800	8	6"	1 1/4	11.76	9.80	9.00		
35 B 404	71200	12	8 3/8"	1 1/2	16.46	13.72	12.60		

(B) Switches. Av. wt., 3 oz.										(C) Lockout Bars. Av. wt., 6 oz.									
Stock No.	Mfr's Type	Action	NET EACH			Stock No.	Mfr's Type	For	NET EACH										
Stock No.	Type	Stock No.	Type	Poles	Diag.	1-49	50-99	100-UP	Stock No.	Type	For	1-49	50-99	100-UP					
35 B 405	71	SPST n.o.	.29	.24	.23	35 B 409	KO-2	7200	1.76	1.47	1.35								
35 B 406	72	SPST n.c.	.29	.24	.23	35 B 410	KO-4	7400	1.91	1.60	1.46								
35 B 407	73	SPDT	.35	.29	.27	35 B 411	KO-6	7600	2.06	1.71	1.58								
35 B 408	73D	SPDT (shorting)	.41	.34	.32	35 B 412	KO-8	7800	2.20	1.84	1.69								
						35 B 413	KO-12	71200	2.79	2.33	2.14								

TELEVER TYPE SWITCHES

A rugged telephone-type lever switch. Nylon rollers actuate nickel-silver springs. Palladium contacts rated at 3 amps, 120 v. AC (non-inductive). Series 6000 tapped for 3-48 screws; standard telephone mtg. ctrs., 1/32x1 1/8". Series 16000 has 1/32"-32 thread single hole mounting. *3-position type. †Two each side. ‡Four each side. With insulated black knob. All units have stainless steel pivot pins; solder lug terminals. Available in locking or non-locking types. Shpg. wt., 6 oz.



D 6000 SERIES

Spring Return		Locking		Action		NET EACH		
Stock No.	Type	Stock No.	Type	Poles	Diag.	1-49	50-99	100-UP
34 B 726	6006	34 B 734	6006L	DPDT	VI	2.94	2.45	2.25
34 B 729	60012	34 B 737	60012L	4PDT	4 sec. III	4.00	3.33	3.06
34 B 738	*6036	34 B 742	*6036L	2-Ckt X	†4 sec. III	2.94	2.45	2.25
34 B 740	*60312	34 B 746	*60312L	4PDT	†4 sec. III	4.00	3.33	3.06
34 B 741	*60324	34 B 745	*60324L	8PDT	‡8 sec. III	5.88	4.90	4.50

E 16000 SERIES

34 B 853	16006	34 B 854	16006L	DPDT	VI	2.94	2.45	2.25
34 B 855	16006D	34 B 856	16006DL	DPDT	2 sec. XII	3.29	2.74	2.52
34 B 859	160024	34 B 860	160024L	8PDT	8 sec. III	5.88	4.90	4.50
34 B 865	*160312	34 B 866	*160312L	4PDT	†4 sec. III	4.00	3.33	3.06
34 B 867	*160316	34 B 868	*160316L	8PDT	‡8 sec. I	5.17	4.31	3.96
34 B 869	*160324	34 B 881	*160324L	8PDT	‡8 sec. III	5.88	4.90	4.50

Type 530 Escutcheon. For Series 6000 Telever switches. 3 oz. 34 B 486, NET..... 35c

NON-LOCKING PUSH-BUTTON TYPE SWITCHES

FF Switches. Flat frame construction provides frame adaptable to any stack of contact springs. Simple, direct action mechanism. Conventional spring stack assembly with bakelite spacers. Silver contacts rated at 3 amperes, 120 volts AC. One-piece, black button and shaft. 3/8" diameter threaded shank, 3/8" long. With locknut and washer. § n.o. means normally open. n.c. means normally closed. Shpg. wt., 3 oz.



Stock No.		Mfr's Type	Action§		NET EACH		
Stock No.	Type	Poles	Diag.	1-49	50-99	100-UP	
34 B 994	1001	SPST n.o.	I	.62	.52	.47	
34 B 995	1002	SPST n.c.	II	.62	.52	.47	
34 B 996	1003	SPDT	III	.71	.59	.54	
34 B 997	1004	DPST n.o.	IV	.76	.64	.59	
34 B 998	1005	DPST n.c.	V	.76	.64	.59	
34 B 999	1006	DPDT	VI	.91	.76	.70	
34 B 969	1009	3PDT	.....	1.23	1.03	.95

Littl Switches. For limited space applications. One-piece button and shaft. *Black button; †red button. Nickel silver spring contacts. Spring sections are insulated. 3/8" threaded shank, 3/8" long. Recommended for low-level currents only. With mounting hardware. Shpg. wt., 3 oz.



34 B 944	101†	SPST n.o.	I	53c	44c	41c
34 B 945	102†	SPST n.c.	II	53c	44c	41c
34 B 946	103†	SPDT	III	59c	49c	45c
34 B 947	201*	SPST n.o.	I	53c	44c	41c
34 B 948	202*	SPST n.c.	II	53c	44c	41c
34 B 949	203*	SPDT	III	59c	49c	45c

Centralab Switches



MINIATURE STEATITE SWITCHES

PA-2000 Series. Compact rotary switches. Precision constructed to provide excellent RF characteristics. Rated 2 amps @ 15 v. DC, 150 ma. @ 110 v. AC. *1 off, up to 9 progressively shorting positions. Switch $1\frac{1}{2} \times 1\frac{1}{8}$ dia. Shaft $1\frac{1}{8}$ long. Av. shpg. wt., 4 oz. per section.

Shorting		Non-Shorting		Sec. Total Poles	Pole Pos.	NET EACH				
Stock No.	Type	Stock No.	Type			1-9	10-24	25-49	50-99	
35 B 095	*2042			1	1	2.10	.76	.59	.47	.53
34 B 900	2000	34 B 921	2001	1	1	2.12	.94	.74	.62	.57
34 B 901	2002	34 B 922	2003	1	2	2.6	.94	.74	.62	.57
34 B 902	2004	34 B 923	2005	2	2	2.12	1.76	2.49	2.30	2.23
34 B 903	2006	34 B 924	2007	1	3	2.5	1.94	1.74	1.62	1.57
34 B 904	2008	34 B 925	2009	3	3	2.12	3.53	3.18	2.94	2.85
34 B 905	2010	34 B 926	2011	2	4	2.6	2.76	2.49	2.30	2.23
34 B 906	2012	34 B 927	2013	4	4	2.12	4.23	3.81	3.53	3.42
34 B 907	2014	34 B 928	2015	1	5	2.3	1.94	1.74	1.62	1.57
34 B 908	2016	34 B 929	2017	5	5	2.12	5.06	4.55	4.21	4.08
34 B 909	2018	34 B 930	2019	1	6	2	1.94	1.74	1.62	1.57
34 B 910	2020	34 B 931	2021	2	6	2.5	2.76	2.49	2.30	2.23
34 B 911	2022	34 B 932	2023	3	6	2.6	3.53	3.18	2.94	2.85
34 B 912	2024	34 B 933	2025	6	6	2.12	5.88	5.29	4.90	4.75
34 B 913	2026	34 B 934	2027	4	8	2.6	4.23	3.81	3.53	3.42
34 B 914	2028	34 B 935	2029	3	9	2.5	3.53	3.18	2.94	2.85
34 B 915	2030	34 B 936	2031	2	10	2.3	2.76	2.49	2.30	2.23
34 B 917	2034	34 B 938	2035	2	12	2	2.76	2.49	2.30	2.23
34 B 919	2038	34 B 940	2039	3	15	2.3	3.82	3.44	3.18	3.09
34 B 920	2040	34 B 941	2041	3	18	2	3.82	3.44	3.18	3.09

MINIATURE PHENOLIC SWITCHES

PA-1000 Series. Miniature phenolic-insulated switches. Compact—ideal for limited space applications. 30° indexing, adjustable stop. $1\frac{1}{2} \times 1\frac{1}{8}$ dia. Shaft, $1\frac{1}{8}$ long. Rated 2 amps @ 15 v. DC, 150 ma. @ 110 v. AC. Shpg. wt., 5 oz.

Shorting		Non-Shorting		Sec. Total Poles	Pole Pos.	NET EACH				
Stock No.	Type	Stock No.	Type			1-9	10-24	25-49	50-99	
35 B 050	1000	35 B 065	1001	1	1	2.11	1.47	1.32	1.22	1.19
35 B 051	1002	35 B 066	1002	1	2	2.11	1.47	1.32	1.22	1.19
35 B 052	1004	35 B 067	1005	2	2	2.11	1.47	1.32	1.22	1.19
35 B 053	1006	35 B 068	1007	1	3	2.3	2.12	1.92	1.72	1.71
35 B 054	1008	35 B 069	1009	3	3	2.11	2.65	2.38	2.20	2.14
35 B 055	1010	35 B 070	1011	1	4	2	1.47	1.32	1.22	1.19
35 B 056	1012	35 B 071	1013	2	4	2.5	2.12	1.90	1.76	1.71
35 B 057	1014	35 B 072	1015	4	4	2.11	3.12	2.80	2.59	2.52
35 B 058	1016	35 B 073	1017	5	5	2.11	3.64	3.28	3.03	2.94
35 B 059	1018	35 B 074	1019	2	6	2.3	2.12	1.90	1.76	1.71
35 B 060	1020	35 B 075	1021	3	6	2.5	2.65	2.38	2.20	2.14
35 B 062	1024	35 B 077	1025	2	8	2	2.12	1.90	1.76	1.71
35 B 063	1026	35 B 078	1027	4	8	2.5	3.12	2.80	2.59	2.52
35 B 064	1028	35 B 079	1029	3	12	2	2.65	2.38	2.20	2.14

SEPARATE ASSEMBLIES FOR MAKING MINIATURE SWITCHES

Type PA Phenolic Sections Only. Carry the same ratings as above miniature switches. Excellent RF characteristics. Adjustable stop. With hardware. Shpg. wt., 2 oz.

Shorting		Non-Shorting		Total Poles	Pole Pos.	NET EACH				
Stock No.	Type	Stock No.	Type			1-9	10-24	25-49	50-99	
35 B 080	30	35 B 085	31	1	1	2.11				
35 B 081	32	35 B 086	33	2	2	2.5	.71	.64	.59	.56
35 B 082	34	35 B 087	35	3	3	2.3				
35 B 083	36	35 B 088	37	4	4	2				
35 B 236	40	35 B 237	41	1	1	2.11				

Type PA Steatite Sections Only. Custom and standard switches can be assembled by using these sections. Wt., 2 oz.

Shorting		Non-Shorting		Total Poles	Pole Pos.	NET EACH				
Stock No.	Type	Stock No.	Type			1-9	10-24	25-49	50-99	
35 B 040	PA-0	35 B 045	PA-1	1	1	2.12				
35 B 041	PA-2	35 B 046	PA-3	2	2	2.6	.97	.87	.81	.78
35 B 042	PA-4	35 B 047	PA-5	3	3	2.5				
35 B 044	PA-8	35 B 049	PA-9	6	2					
35 B 238	PA-11	35 B 240	PA-18	1	1	2.11				
35 B 239	PA-12		PA-17	1	1	2.10	.97	.87	.81	.78

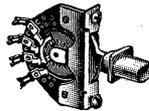
PA-300 Series, Shaft and Index Assemblies. Hardware for miniature switches (spacers, tie-rods, etc.). 30° indexing. Wt., 3 oz.

Stock No.	Mfr's Type	Shaft Length	Sections	NET EACH			
				1-9	10-24	25-49	50-99
35 B 092	300	2"	1-3	1.12	1.01	.93	.91
35 B 093	301	4"	4-6	1.47	1.32	1.22	1.19
35 B 094	302	6"	7-9	1.94	1.74	1.62	1.57

2500 SERIES—STEATITE INSULATION

Rotary switches. Excellent for RF use. Switch, $1\frac{1}{2} \times 1\frac{1}{8}$ diameter. $\frac{1}{2}$ " spacing between sections for 1 and 2 section switches; $1\frac{1}{2}$ " spacing for switches over 2 sections. Bushing, $\frac{3}{8}$ " dia. $\times \frac{3}{8}$ " long. Shaft, $1\frac{1}{8}$ ". Positive 30° index; adjustable stop. Shpg. wt., per section, 4 oz.

Shorting		Non-Shorting		Sec. Total Poles	Pole Pos.	NET EACH				
Stock No.	Type	Stock No.	Type			1-9	10-24	25-49	50-99	
35 B 214	2500	35 B 225	2501	1	1	2.6				
35 B 215	2502	35 B 226	2503	1	1	2.11	1.94	1.74	1.62	1.57
35 B 216	2504	35 B 227	2505	1	1	2.5				
35 B 217	2506	35 B 228	2507	1	3	2.3				
35 B 218	2510	35 B 229	2511	2	2	2.6				
35 B 219	2512	35 B 230	2513	2	2	2.11	2.76	2.49	2.30	2.23
35 B 220	2514	35 B 231	2515	2	4	2.5				
35 B 221	2516	35 B 232	2517	2	6	2.3				
35 B 223	2522	35 B 201	2523	3	3	2.11				
35 B 224	2524	35 B 202	2525	3	6	2.5	3.53	3.18	2.94	2.85



LEVER-ACTION SWITCHES

Low capacity. Use singly or in groups. *Shorting type; others non-shorting. Front plate and lever cadmium-plated. Index: †Positive; ‡Spring-Return; 1466, 1467 are Positive and Spring Return; †1475, tube tester replacement switch. $1\frac{1}{8} \times \frac{3}{8} \times 1\frac{1}{2}$ ". Mtg. ctrs., $1\frac{1}{8}$ ". Knob and mtg. screws. Av. wt., 3 oz.

Stock No.	Type	Stock No.	Type	Poles	Pos.	1-9, EA.	10-24, EA.	25-49, EA.	50-99, EA.
34 B 021	1452*†	34 B 026	1454†	2	3	1.03	.93	.86	.84
34 B 022	1453*†	34 B 027	1455†	2	3	1.03	.93	.86	.84
34 B 025	1456*†	34 B 030	1457†	4	2	1.18	1.06	.98	.95
34 B 024	1459*†	34 B 029	1458†	4	2	1.18	1.06	.98	.95
34 B 023	1466*†	34 B 028	1467†	2	3	1.03	.93	.86	.83
		35 B 198	1475*†	1	3	1.03	.93	.86	.83

MOUNTING PLATES. For single or multiple mounting of lever-action switches. Black wrinkle finish steel. *Chromelated. Av. shpg. wt., 4 oz.

Stock No.	Type	Switch's	Size	1-9, EA.	10-24, EA.	25-49, EA.	50-99, EA.
34 B 050	P1755	1	$\frac{3}{4} \times 2\frac{1}{2}$ "	.29	.26	.24	.23
34 B 051	P1756	2	$1\frac{1}{2} \times 2\frac{1}{2}$ "	.29	.26	.24	.23
34 B 052	P1757	3	$2\frac{1}{2} \times 2\frac{1}{2}$ "	.32	.29	.27	.26
34 B 053	P1758	4	$3\frac{1}{2} \times 2\frac{1}{2}$ "	.41	.37	.34	.33
34 B 060	P221*	2	$2\frac{1}{2} \times 1\frac{1}{2}$ "	.50	.45	.42	.40
34 B 061	P222*	1	$2\frac{1}{2} \times 1\frac{1}{2}$ "	.41	.37	.34	.33

1400 SERIES—PHENOLIC INSULATION

Compact design. Switch, $1\frac{1}{8} \times 1\frac{1}{8}$ " dia. Bushings, $\frac{3}{8} \times \frac{3}{8}$ ". Shafts, $1\frac{1}{8}$ " from end of bushing. Positive 30° index. Mtg. nut, washer, $1\frac{1}{4}$ " knob. Av. shpg. wt., 6 oz.

Shorting		Non Shorting		Sec. Total Poles	Pole Pos.	NET EACH			
Stock No.	Type	Stock No.	Type			1-9	10-24	25-49	50-99
35 B 182	1400	35 B 163	1401	1	1	2-6			
35 B 183	1402	35 B 164	1403	1	1	2-11			
35 B 184	1404	35 B 165	1405	1	2	2-11	1.71	1.54	1.42
35 B 185	1406	35 B 166	1407	1	3	2-3			
35 B 186	1408	35 B 167	1409	1	4	2			
35 B 187	1410	35 B 168	1411	2	2	2-6			
35 B 188	1412	35 B 169	1413	2	2	2-11			
35 B 189	1414	35 B 170	1415	2	4	2-5	2.12	1.90	1.76
35 B 190	1416	35 B 171	1417	2	6	2-3			
35 B 191	1418	35 B 172	1419	2	8	2			
35 B 193	1422	35 B 174	1423	3	3	2-11	2.65	2.38	2.20
35 B 194	1424	35 B 175	1425	3	6	2-5	2.65	2.38	2.20
35 B 197	1430	35 B 178	1431	4	8	2-5	3.12	2.80	2.60

P-120 Series, Shaft and Index Assemblies. Complete hardware for 1400 Series switches, above. Also fits 2500 series steatite sections. (Spacers, tie-rods, etc.). 30° indexing. Shpg. wt., 3 oz.

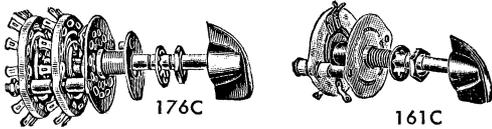
Stock No.	Type	Shaft	Sections	1-9, EA.	10-24, EA.	25-49, EA.	50-99, EA.
35 B 233	P-121	2"	1-3	1.12	1.01	.93	.90
35 B 234	P-123	2"	5-8	1.94	1.74	1.62	1.57



UNIVERS

Mallory Switches

CERAMIC SECTION SWITCHES



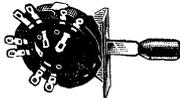
Multi-contact ceramic-section selector switches. For minimum RF losses. All are non-shorting. Silver plated contacts. Maximum non-breaking current resistive load, 10 amps. 2 gang have wafers spaced 1/2" apart except indexing 1 1/4"; all others have 1" spacing between wafers. 30° indexing, except 190°; 1 1/4" base dia.; use plates below, at right. With 2" grooved shaft, knob and hardware. *Additional "Off" position. †Rated 1000 v. DC and 100 watts. Av. shpg. wt., 8 oz.

Stock No.	Mfr's Type	Gangs	Total Poles	Positions per Pole	NET EACH
34 B 327	172C	1	1	11	1.94
34 B 328	173C*	1	2	5	
34 B 329	174C*	1	3	3	
34 B 331	176C	2	2	11	
34 B 332	177C*	2	4	5	2.76
34 B 333	178C*	2	6	3	
34 B 335	180C	3	3	11	3.53
34 B 336	181C*	3	6	5	
34 B 337	161C†	1	1	4	1.76
34 B 338	162C†	2	2	4	2.50
34 B 339	163C†	3	3	4	3.23
34 B 340	164C†	4	4	4	3.97
34 B 341	165C†	5	5	4	4.70

Type 488 Dial Plate. For 160C switches, above. Shpg. wt., 2 oz.
34 B 688. NET.....12c

LEVER-ACTION SWITCHES

Positive-indexing, lever action switches—with shorting or non-shorting contacts. Indexing in 2, 3 or 4 positions with 20° spacing between positions. Types 6142, 6143 and 6243 have mounting brackets with round holes spaced for 1 1/2" centers. 5124 and 5224 have elongated mounting holes in the brackets, spaced 2 3/8" to 2 3/4" apart. Phenolic resin insulation. Maximum non-breaking current resistive load, 5 amps. With knob and hardware. Shpg. wt., 4 oz.



SHORTING		NON-SHORTING		Poles	Positions Per Pole	NET EACH
No.	Type	No.	Type			
34 B 382	5124	34 B 383	5224	2	4	1.12
34 B 365	6142			4	2	.97
34 B 366	6143	34 B 368	6243	4	3	.97

"HAMSWITCH" TYPE 151L

Two-section, 5-position switch; 1 pole per section. Non-shorting type. Excellent for switching meter circuits. 2 1/4" spacing between sections. Rated at 1000 volts AC (rms) or 1500 volts DC. 60° indexing between positions. With brass bushing 3/8" long, 3/8" dia. and 2" long, 1/4" dia. shaft is grooved at popular lengths for easy cutting. Complete with knob, nut and lock washer. Shpg. wt., 6 oz.



34 B 318. NET.....2.20

TYPE 13124L 24-POINT TAP SWITCH

Single circuit, 24 position, non-shorting switch. Continuous rotation. 3/8" bushing, 2" grooved shaft. Useful in test equipment. 15° indexing between positions. With knob, dial plate and hardware. 6 oz.

34 B 295. NET.....2.26

MINIATURE PUSH-BUTTON SWITCHES

Push-button switches for limited-space applications. Eight circuit combinations. *Locking type. All others are non-locking; contact is made only when button is depressed. Silver contacts. Frame is cadmium plated. Mount in single hole, 7/16" diameter, on panels up to 1/4" thick. Mtg. radius is 1/16". Mtg. depth is 7/16" min. (Type 1011) and 7/8" max. (Type 1018). Voltage breakdown, 500 v. DC. Shpg. wt., 3 oz.



Stock No.	Type	Action	NET
34 B 432	1011	SPST—Make	.56
34 B 433	1012*	SPST—Break	.56
34 B 434	1013	SPDT	.65
34 B 435	1014	DPST—Make 2	.71
34 B 436	1015	DPST—Break 2	.71
34 B 437	1016	DPDT	.85
34 B 438	1017	DP—Make 2, Break 1	.85
34 B 439	1018	DPDT—Make before break	1.18

PLX SERIES PLUNGER SWITCHES

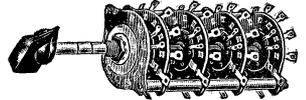
Designed for appliance applications such as: heater, motor and lighting loads. Switch is 1 1/2" dia. Mounts by a spring grip washer pushed over the 7/8" bushing. Requires mtg. hole a min. of .441" dia. Rated at 20 amps, 120 v. AC or 15 amps, 240 v. AC. Force to depress plunger, 1-5 lbs. depending on circuits. Plunger actuation is 1/4"—operates with a rotating cam, lever, door, sliding cam, etc. U.L. Approved. Shpg. wt., 3 oz.



Stock No.	Mfr's Type	Action	NET EACH
34 B 684	PLX-1	DPST—2 Circuit progressive	73c
34 B 685	PLX-2	DPDT—Break before make	73c
34 B 686	PLX-3	SPST—Normally open	59c
34 B 687	PLX-4	SPST—Normally closed	59c

TYPE 1200L & 1300L MULTI-GANG SWITCHES

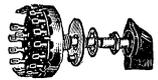
Versatile multi-gang switches for servicing and industrial applications. Have 1 fixed and 1 adjustable stop, silver-plated contacts, solid silver rotor contact slugs, and phosphor-bronze springs. 3- and 4-gang spaced 1"; all others 1/2", 2" notched shaft. Shorting-type make before break. Require 7/8" mtg. hole. With bar knob and hardware, less mtg. plate. Use 34 B 600 plates below. *With additional "off" positions with all circuits open. Av. Shpg. wt., 8 oz.



Shorting		Non-Shorting		Gangs	Total Poles	Pos. per Pole	NET EACH
Stock No.	Type	Stock No.	Type				
34 B 201	1211L	34 B 251	1311L	1	1	11	1.71
34 B 202	1215L*	34 B 252	1315L*	1	2	5	
34 B 203	1213L*	34 B 253	1313L*	1	3	3	
34 B 204	1212L*	34 B 254	1312L*	1	4	2	
34 B 206	1221L	34 B 256	1321L	2	2	11	2.12
34 B 207	1225L*	34 B 257	1325L*	2	4	5	
34 B 208	1223L*	34 B 258	1323L*	2	6	3	
34 B 209	1222L*	34 B 259	1322L*	2	8	2	
34 B 211	1231L	34 B 261	1331L	3	3	11	2.65
34 B 212	1235L*	34 B 262	1335L*	3	6	6	
34 B 213	1241L	34 B 263	1341L	4	4	11	3.12
34 B 215	1245L*	34 B 265	1345L*	4	8	5	
34 B 216	1251L	34 B 266	1351L	5	5	11	3.35
34 B 217	1256L	34 B 267	1356L	5	10	6	
34 B 218	1261L	34 B 268	1361L	6	6	11	3.94
34 B 219	1266L	34 B 269	1366L	6	12	6	

3100J & 3200J SINGLE GANG SWITCHES

Compact, enclosed, low-voltage switches. Have 2" notched shaft; 3/8" threaded bushing, 3/8" long. With bar knob and nut. All 1 1/8" base dia. types have adjustable stops. For band switching, etc. Use plates listed below. Shpg. wt., 4 oz.



Shorting		Non-Shorting		Poles	Positions	Base Dia.	NET EACH
Stock No.	Type	Stock No.	Type				
34 B 300	3115S	34 B 350	3215J	1	5	1 1/2"	82c
34 B 301	3112J	34 B 351	3212J	1	12	1 1/2"	
34 B 302	3122J	34 B 352	3222J	2	2	1 1/2"	
34 B 303	3123J	34 B 353	3223J	2	3	1 1/2"	
34 B 304	3126J	34 B 354	3226J	2	6	1 1/2"	
34 B 305	3134J	34 B 355	3234J	3	4	1 1/2"	.85
34 B 306	3142J	34 B 356	3242J	4	2	1 1/2"	
34 B 307	3143J	34 B 357	3243J	4	3	1 1/2"	.85
34 B 308	3117J	34 B 358	3217J	1	17	1 1/2"	
34 B 309	3129J	34 B 359	3229J	2	9	1 1/2"	1.26
34 B 310	3136J	34 B 360	3236J	3	6	1 1/2"	
34 B 311	3163J	34 B 361	3263J	6	3	1 1/2"	1.35

TYPE 3122 TV ANTENNA SWITCH

New, high-quality antenna switch designed for applications where 2 separate antennas are used with 1 set. Just turn the switch to select desired antenna. Easily mounts on TV rear safety panel, 1 1/4" dia; shaft, 1 3/8", solder terminals. Complete with bar knob and all mounting hardware. Shpg. wt., 4 oz.

34 B 296. NET.....1.12

TYPE 1400L CIRCUIT OPENING SWITCH

Opens any one of 12 "lines" for insertion of current reading meter while "through" circuit is maintained on other 11 lines. Multiplying resistors can be wired so that when switch opens line, proper resistor is inserted in circuit. For test sets, tube checkers, etc. Shaft, 1/2" dia.; length, 2". With bar knob, dial plate and hardware. Shpg. wt., 6 oz.

34 B 290. NET.....3.82

DIAL PLATES

Types 372 to 390 for switches 1200L, 1300L and 1 1/2" base 3100J and 3200J. Etched aluminum. Black background. 1 1/8" dia. 7/8" hole. Shpg. wt., 2 oz.



30° SPACING FOR 1 1/4" BASE SWITCHES				20° SPACING FOR 1 1/8" BASE SWITCHES			
Type	Marking	Type	Marking	Type	Marking	Type	Marking
372	1 to 2	384	Off 1 to 4	453	1 to 3	474	Off 1 to 4
373	1 to 3	385	Off 1 to 5	454	1 to 4	475	Off 1 to 5
374	1 to 4	386	Off 1 to 6	455	1 to 5	476	Off 1 to 6
375	1 to 5	387	Off 1 to 7	456	1 to 6	477	Off 1 to 7
376	1 to 6	388	Off 1 to 8	457	1 to 7	478	Off 1 to 8
377	1 to 7	389	Off 1 to 9	458	1 to 8	479	Off 1 to 9
378	1 to 8	390	Off 1 to 10	459	1 to 9	480	Off 1 to 10
379	1 to 9			460	1 to 10	481	Off 1 to 11
380	1 to 10			461	1 to 11	482	Off 1 to 12
381	1 to 11			462	1 to 12	483	Off 1 to 13
382	1 to 12			467	1 to 17	484	Off 1 to 14
383	Off 1 to 3			473	Off 1 to 3	486	Off 1 to 16

34 BB 600. Specify Type. 34 BB 650. Specify Type. NET EACH.....12c

34 B 670. Type 369. 0-100 plate for volume control.
34 B 620. Type 391. Increase-type plate for vol. control. } NET
34 B 622. Type 393. 0-10 plate for rheostats and pots. } EACH 15c
34 B 624. Type 396. 0-10 plate for wire-wound controls.
34 B 623. Type 394. 1-24 position. 15° opening. NET.....12c

RB254 UNIVERSAL MOUNTING BRACKET

"L" shaped Universal Mounting Bracket for baseboard or rear support mounting of all Mallory circuit selector switches, volume controls and jacks. Shpg. wt., 2 oz.
34 B 420. NET.....15c

Industrial Time Switches



INDUSTRIAL TIMER CORPORATION



SERIES CM RECYCLING CAM TIMERS

- Designed to Repeat a Definite Electrical On and Off Time Cycle Continuously
- Cams Are Precision Calibrated for Quick, Accurate Setting
- SPDT Switch Is Totally Enclosed and Completely Dust-Proof

A Motor driven timers specifically designed for repeating a definite electrical "Off-On" cycle continuously. A complete time unit consists of a Series CM chassis-mounted foundation unit, heavy-duty synchronous motor, cam actuated single-pole double-throw switch, and a gear and rack assembly.

The gear and rack assembly determines the overall time of one full "Off-On" cycle e.g., CM-4 will provide overall time cycles of from 40 seconds to 6 minutes, depending on which gear and rack assembly it is used with.

Cams have single screw adjustment for setting "On" or "Off" cycle up to 98% of complete time cycle. Synchronous motor assures precise

repetition of time cycle under continuous, industrial use. All gear and rack assemblies in the listing below are of standard construction to permit changing overall time cycle simply by changing the gear and rack assembly.

The SPDT switch is totally enclosed and dust-proof. Contacts are rated 10 amperes at 115 volts or 220 volts, 60 cycle AC. Overall sizes: $2\frac{1}{2} \times 2\frac{1}{2} \times 3\frac{1}{4}$ ". For operation from 110-120 volts, 60 cycle AC.

HOW TO ORDER: Simply locate overall time cycle desired in the table below and order both the gear and rack assembly and the CM chassis-mounted foundation unit indicated. Av. shpg. wt., complete, 4 lbs.

GEAR-AND-RACK ASSEMBLIES

*S—Seconds M—Minutes H—Hours

Stock No.	Mfr's Type	*Overall Time Cycles Available								NET EACH				
		CM-2	CM-4	CM-6	CM-8	CM-10	CM-12	1-3	4-5	6-11	12-24	25-49		
78 B 472	F-12	10S	40S	2M	3M20S	20M	2H	8H	1.50	1.43	1.40	1.28	1.20	
78 B 470	D-12	12S	48S	2M24S	4M	24M	2H24M	9H36M						
78 B 468	C-12	15S	60S	3M	5M	30M	3H	12H						
78 B 466	B-12	20S	80S	4M	6M40S	40M	4H	16H						
78 B 467	B-15	25S	100S	5M	8M20S	50M	5H	20H	1.50	1.43	1.40	1.28	1.20	
78 B 457	A-12	30S	2M	6M	10M	60M	6H	24H						
78 B 471	D-36	36S	144S	7M12S	12M	72M	7H12M	28H48M						
78 B 458	A-16	40S	160S	8M	13M20S	80M	8H	32H						
78 B 459	A-18	45S	3M	9M	15M	90M	9H	36H	1.50	1.43	1.40	1.28	1.20	
78 B 460	A-20	50S	200S	10M	16M40S	100M	10H	40H						
78 B 461	A-24	60S	4M	12M	20M	2H	12H	48H						
78 B 465	A-36	90S	6M	18M	30H	3H	18H	72H						

SERIES CM FOUNDATION UNITS

Stock No.	Mfr's Type	Stock No.	Mfr's Type	Stock No.	Mfr's Type	NET EACH				
						1-3	4-5	6-11	12-24	25-49
78 B 450	CM-2	78 B 453	CM-6	78 B 455	CM-10	15.50	14.73	13.95	13.18	12.40
78 B 451	CM-4	78 B 454	CM-8	78 B 456	CM-12					
78 B 452	CM-5									

SERIES H AND SF TIME DELAY TIMERS

- Pre-Heats Transmitter Tube Filaments; Activates Store Displays
- Available for Time Cycles from 15 Seconds to 5 Minutes Duration

B Dependable automatic reset timers. Useful for any operation requiring a fixed or adjustable delay between the closing of one circuit and the closing or opening of another circuit.

SPDT switch has contacts rated 10 amperes at 115 volts AC with non-inductive load. Suitable for pre-heating transmitter tube filaments, also for vending machines and store displays, etc. Both Series H and Series SF are available in four models providing maximum time cycles

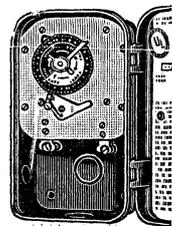
from 15 seconds to 5 minutes. All units have clutches as integral part of motor. Series H (Fig. B, illustrated above) is for front of panel mounting. Series SF (Fig. C, illustrated above) is for back of panel mounting. Both series are fastened by 4 screws. Constructed of highest-quality parts for excellent service.

Overall sizes: H Series, $3\frac{7}{8} \times 3\frac{9}{16} \times 3\frac{1}{2}$ "; SF Series, $2\frac{3}{4} \times 3\frac{1}{2} \times 2\frac{5}{8}$ ". Underwriters' Laboratories Approved. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., $\frac{1}{2}$ lbs.

Stock No.	Mfr's Type	Max. Time Cycle	NET EACH				
			1-3	4-5	6-11	12-24	25-49
78 B 485	H-15S	15 seconds	22.00	20.90	19.80	18.70	17.60
78 B 486	H-1M	1 minute					
78 B 487	H-3M	3 minutes					
78 B 488	H-5M	5 minutes	19.00	18.05	17.10	16.15	15.20
78 B 481	SF-15S	15 seconds					
78 B 482	SF-1M	1 minute					
78 B 483	SF-3M	3 minutes					
78 B 484	SF-5M	5 minutes					

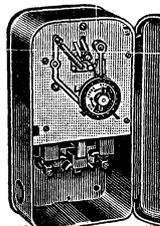
RELIEF HEAVY-DUTY TIME SWITCHES

TYPE W—30 AMP



Model W-22. Completely automatic electric time switch. Ideal for control of apartment lights, water heaters, etc. Convenient manual switching will not interfere with automatic operation. Minimum "ON" period, $\frac{1}{2}$ hr.; max., 23 hours. Synchronous, self-starting motor. Snap-action silver-to-silver contacts; spring-temper, phosphor-bronze blades. DPST. Contacts rated 30 amps. at 120-240 v. Has $\frac{1}{2}$ " and $\frac{3}{4}$ " knockouts in bottom, sides and back. Indoor cabinet for wall mounting. Hammerloid enamel finish. Size: $4 \times 7 \times 4$ " deep. U.L. Approved. For 110-125 v., 60 cycle AC. Neutral tap for 3-wire, 250 v. circuits. Wt., 5 lbs. **78 B 390, List, \$15.50. NET.....10.62**

Model W-33. As above but DP, 2-circuit throw. Equal to two SP time switches in one. Will control 2 separate circuits independently or simultaneously by setting trippers for desired schedule. Provides 8 different combinations of 2-circuit control; may be set to operate both circuits simultaneously as a DPST switch. **78 B 391, List, \$20.00. NET.....13.72**



"BADGER" 50 AMP

Model M1. Heavy duty time switch for dependable control of substantial loads. Self-starting, synchronous motor maintains accurately timed intervals. Automatically controls on and off periods of illuminated billboards, flood lights, air conditioning units, etc. Minimum "ON" period, $\frac{1}{2}$ hour; maximum, $2\frac{3}{4}$ hours. Can be switched on or off manually if desired, at any time during cycle without interfering with automatic operation. Plunger action, copper-to-copper SPST contacts. Contacts rated at 50A at 120 to 240 v. Steel cabinet, 18 gauge. Cabinet finished in Hammerloid enamel. Has $\frac{3}{4}$ " and $1\frac{1}{2}$ " knockouts in bottom, sides, and back. U.L. Approved. For 110-125 v., 60 cycle AC. Size: $5\frac{1}{2} \times 10 \times 4\frac{1}{2}$ " deep. Shpg. wt., 10 lbs. **78 B 392, List, \$22.00. NET.....15.09**

Model M2. Same as above except switch has DPST contacts. Neutral tap for 3-wire, 240-v. circuits. **78 B 393, List, \$24.00. NET.....16.45**

INTERVAL TIMERS

SERIES P AUTOMATIC RESET TIMERS

D Portable, motor-driven timer with automatic reset. Operates by built-in pushbutton switch that actuates timer for each cycle. On completion of a cycle, lapsed time indicator automatically resets and unit is ready to start another cycle when pushbutton is pressed.

Receptacle for plugging in remote starting switch is provided. Has standard AC receptacle for plugging in load. Load switch contacts are rated 15 amperes at 115 volts, AC with non-inductive load. Built-in toggle switch is provided for closing load circuit continuously when timed operation is not required.

Completely portable, unit is supplied with AC cord and is housed in metal case with keyhole slots for wall mounting. Overall size, $5 \times 5 \times 3\frac{1}{2}$ ". For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 3 lbs. For quantity prices in lots of 12 or more, write or phone Allied's Industrial Division.

Stock No.	Mfr's Type	Maximum Time Cycle	NET EACH			
			1-3	4-5	6-11	12-24
78 B 473	P-AR	15 sec.	27.00	25.65	24.30	23.00
78 B 474	P-1M	1 min.				
78 B 475	P-3M	3 min.				
78 B 476	P-5M	5 min.				

SERIES S SIGNALING TIMER

E Motor-driven manual-set timer with 2 AC outlets. Designed to give visual and audible signal at completion of selected time interval. Setting timer for any part of time cycle lights lamp and powers one outlet.

On completion of cycle, lamp is turned off, a buzzer sounds, and a 10 ampere single-pole double-throw switch transfers power to the other outlet. Buzzer sounds until turned off manually or timing interval is again started.

Overall size, $5 \times 5 \times 3\frac{1}{2}$ ". Durable metal case. Supplied complete with AC cord. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 3 lbs. For quantity prices in lots of 12 or more, write or phone Allied's Industrial Division.

78 B 477, S-1H, 1-hr. max. cycle.
78 B 478, S-3H, 3-hr. max. cycle.
1-3, NET EACH.....24.00
4-5, EACH...22.80 6-11, EACH...21.60

SERIES PAB INSTANT RESET TIMERS

F Extremely accurate automatic reset timers designed specifically for heavy-duty use in industrial process control applications. Feature instant reset adjustment. Electrically operated clutch drives actuating arm to dial setting selected and automatically releases. Spiral spring resets arm in split second.

Output terminals can be wired for circuit transfer applications. Switch contacts rated 15 amps at 115 volts AC with non-inductive load. Metal enclosure has $\frac{1}{2}$ " knockouts for use with rigid or flexible conduit. $7 \times 5 \times 4$ ". For 110-120 v., 60 cycle AC. Shpg. wt., 4 lbs. For quantity prices in lots of 12 or more, write or phone Allied's Industrial Division.

78 B 489, PAB-60S, 1-min. max. cycle.
78 B 490, PAB-30M, 30-min. max. cycle.
78 B 491, PAB-60M, 1-hr. max. cycle.
1-3, NET EACH.....45.50
4-5, EACH...43.23 6-11, EACH...40.95

Industrial-Type Time Switches

TORK SWITCHES—INTERVAL TIMERS



4100

MODEL 4100 "HOURMASTER"

Here's a highly versatile, heavy-duty, SPST time switch. Provides up to 24 hourly "on" cycles. Each "on" cycle may be accurately set in 1-min. intervals for durations from 12 to 55 minutes. Can operate every 1, 2, 3, 4, 6, 12, or 24 hours. Use to control poultry feeding, crop curing, well pumping, lawn sprinkling, etc. Contacts rated at 30 amps. Steel case, 8 1/4 x 5 1/4". U.L. Approved. For 110-120 volts, 60 cycle AC. Shpg. wt., 5 lbs.

78 B 295. List, \$24.95. NET.....17.58

MODEL 948 "TORKMASTER"

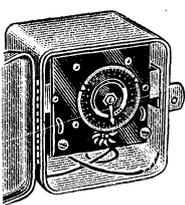
Automatically turns electrical equipment "on" and "off" once over a 24-hour period. Minimum setting of timer is 2 hours. Calibrated in 15-minute intervals. Switch is single pole with rating of 30 amps. Ideal for window lights, hallways, coal stokers, defrosters, etc. May be opened by hand without disturbing pre-set adjustments. Blue-gray finished steel case with hinged cover. Has Telechron motor; precision gears. 5 1/4 x 4 1/4 x 3 1/4". U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 3 lbs.

78 B 308. List, \$11.95. NET.....7.77

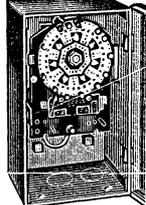
MODEL 7D1191 "SEVEN DAY"

Similar to 1191 "Little Giant" (center, above) but with dial calibrated to revolve once a week. Provides automatic control for each day, or any combination of days. Permits different "on" and "off" times for each day. Minimum setting 2 hours. With conduit knockouts. 8 1/4 x 5 1/4". U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 5 lbs.

78 B 296. List, \$24.95. NET.....16.22



948



7D1191

MODEL 1191 "LITTLE GIANT"

Automatically turns electrical equipment "on and off" at any pre-set time, once every 24 hours. For use in stores, offices and homes. On-off dial calibrated in 15 minute intervals. 45 minutes required between settings. Handles 35 amps at up to 3500 watts lighting load (4000 watts heating load) or 1 h.p. single phase motor. Manual operation if desired. Accurate, dependable clock motor. Heavy-duty, lug-type terminals take up to #6 wire. Steel case has hasp for lock. Size, 8 1/4 x 5 1/4". U.L. Approved. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 5 lbs.

78 B 302. List, \$13.95. NET.....9.07

MODEL 1191SK "SKIP-A-DAY"

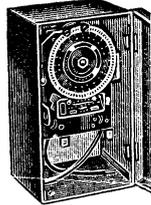
(Not illustrated). Similar to above, but designed for use where "skipping" of 1 to 6 days a week is desired. Features 7-spoke "calendar wheel" in addition to 24-hour dial for excellent versatility. Size of steel case, 8 1/4 x 5 1/4". U.L. Approved. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 5 lbs.

78 B 297. List, \$17.95. NET.....11.67

MODEL 1963 "3-POLE"

(Not illustrated). Heavy-duty timer designed for controlling three-phase power and lighting loads. Ideal for industrial applications. Has dial calibrated to provide same time intervals as Model 1191 listed above. 3-pole single-throw switch has a capacity of 7500 watts (2500 watt per pole); each pole can handle 25 amperes. 8 1/4 x 5 1/4". U.L. Approved. For 110-120 volts, 60 cycle AC. Shpg. wt., 5 lbs.

78 B 298. List, \$27.95. NET.....18.17



1191



919

MODEL 919 PORTABLE PLUG-IN

Portable, 24-hour, plug-in time switch—fully automatic. Operates air conditioners up to 1/2 ton, burglar alarms, bedside radios, etc. "On" time can be set for periods from 45 minutes to 23 hours, 15 minutes, in 15-minute intervals. On-off levers for manual use. Capacity, 10 amps, 1100 watts. Size, 3 1/2 x 4 1/4". U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 3/4 lbs.

78 B 304. List, \$13.95. NET.....9.07

Model 1919G. As above, but can control 3/4 or 1-ton air conditioner having 3-prong plug. 78 B 360. List, \$19.95. NET.....12.97

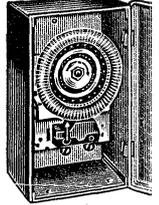
Extra Trippers. For above. Pair, 3 oz. 78 B 309. NET PER PAIR.....35c

MODEL 8001 PROGRAM TIMER

Highly versatile unit provides almost any desired timing combination of intervals which are multiples of 15 minutes in duration. Combination of intervals repeats every 24 hours. Timer has a total of 96 tabs. When a tab is tilted into position, timer is "on" for 15 minutes each day. If an adjacent tab is tilted in, the timer will be "on" for 30 minutes. Thus the timer is "on" during various intervals that are multiples of 15 minutes and which are separated by "off" periods that also are multiples of 15 minutes. Since they are an integral part of the dial, there is no time loss between adjacent tabs.

Timer has 10-amp single-pole switch. 8 1/2 x 4 x 4 1/2". U.L. Approved. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 5 lbs.

78 B 299. List, \$26.95. NET.....17.52



8001

INTER-MATIC TIME SWITCHES



T171



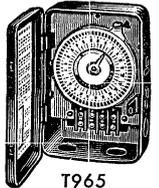
T101



P101



T185



T965

"SKIPPER" TIME SWITCHES

Permits "skipping" control cycle. Has 2 dials: a time dial and a day dial. To skip any days, small skipping screws are inserted into the day dial. "On" and "off" trippers are set in the time dial. Special "cutout" tripper advances the day dial every 24 hours. Up to 12 on and off operations per day can be obtained by adding extra "on and off" trippers. Range: minimum "on" or "off" time, 1 hour; maximum, 23 hours. Switch may be operated manually. Automatic reset resumes time cycle. Silver contacts are rated 35 amps at 125 volts (4000 watts). Steel case; gray finish. With three skipping screws, one on-cutout and one off tripper, and instructions. Air conditioner, etc. plugs into unit; plug into electrical outlet. 7 3/4 x 5 3/8". U.L. Approved. For 110-120 volts, 60 cycle AC. Shpg. wt., 4 lbs.

Type T171. SPST.

78 B 315. List, \$17.95. NET.....11.67

Type 173. DPST.

78 B 316. List, \$19.95. NET.....12.97

Type T175. SPDT.

78 B 317. List, \$19.95. NET.....12.97

TRIPPERS AND SKIPPING SCREWS

Type 107T19A. On-Cutout Trippers. Replacement for "Skipper" types only. 3 oz.

78 B 319. NET EACH.....20c

Type 7972. Skipping Screws. For "Skipper" types only. Shpg. wt., 8 oz.

78 B 388. Pkg. of 3, EACH PKG.....12c

Type 107T8A. Set of "On and Off" Trippers. For all Inter-Matic switches (except T185).

Shpg. wt., 2 oz. 78 B 324. NET PER SET.....26c

TYPE T101 TIME SWITCH

Inter-Matic SPST time switch turns equipment "on" and "off" once in 24 hours. With extra trippers (see bottom of left column) will operate up to 12 times a day. Trippers can be added without removing the dial. Minimum time between settings is 1 hour. Manual operation does not interfere with settings. 35 amp contacts will handle a 4000 watt load at 125 v., 60 cyc. Gray steel case with knockouts. Size, 5 3/8 x 7 7/8". U.L. Approved. For 110-120 volts, 60 cycle AC. Shpg. wt., 4 lbs.

78 B 322. List, \$11.95. NET.....7.77

Type T103. As above, but DPST.

78 B 321. List, \$13.95. NET.....9.07

Adapter Kit. Handy adapter kit makes the above units portable. Consists of 6 ft. cord, plug, etc. 15 amperes. Shpg. wt., 1 lb.

78 B 323. NET.....11.12

TYPE P101 TIME SWITCH

Portable type, SPST plug-in time switch. Simple to install. Improved version carries a much heavier load than earlier models. Will handle any appliance that plugs into regular outlets. Provides many uses in the shop, store, or home. Easily set for from 1 to 12 on-off operations per day. Minimum "on" or "off" time, 1 hr.; maximum, 23 hrs. Controls lamps, signs, electric roasters, radios, TV sets, communications equipment, etc. Precision-built. Finest quality materials. Can be used with up to twelve extra trippers. May also be manually operated. Capacity: 10 amps at 125 volts. 5 3/8 x 7 7/8". U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 4 lbs.

78 B 314. List, \$13.95. NET.....9.07

TYPE T185 TIME SWITCH

Versatile switch that provides up to 14 "on-off" cycles. Each cycle is independently controlled and can vary from 5-60 min. Minimum interval between cycles, 1 1/2 hrs. Can be used as SPST normally open; SPST normally closed; or SPDT. Perfect for applications requiring more than one "on-off" cycle in a 24-hour period. Rated 35 amps, 125 v., AC. With 3 trippers (1 for each "on-off" cycle) 7 1/4 x 5 3/8". U.L. Approved. For 110-120 volts, 60 cycle AC. Shpg. wt., 4 lbs.

78 B 313. List, \$17.95. NET.....11.67

Extra Trippers. For above. 4 oz.

78 B 336. NET EACH.....49c

TYPE T965 TIME SWITCH

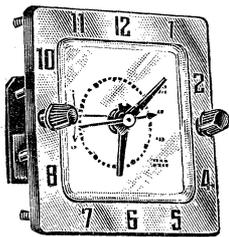
Program timer for up to 96 operations in a 24 hour period. Minimum "on" or "off" period is 15 minutes. Can be used for 24 hour control of heating, ventilating and air conditioning systems. Ideal for programming industrial music systems. Easily set by depressing trippers located on dial face. Trippers are permanently attached—cannot be misplaced. Large terminal screws on bakelite board allow easy hookup. Switch is SPST type, rated 20 amps. Will repeat timing cycles without resetting. Synchronous motor is low speed, high torque type. 7 7/8 x 5 3/8". U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 3 lbs.

78 B 395. List, \$37.50. NET.....24.38

Type T966. For 210-250 v., 60 cycle AC.

78 B 396. List, \$38.50. NET.....25.03

Clock Timers and Foot Switch



GENERAL ELECTRIC

TELECHRON CLOCK-TIMER

- Electric Clock and Automatic Time Switch
- Turns on Radio, TV, Etc. at Preset Time
- Complete with Knobs and Brass Bezel

An exceptional value in a famous-name, combination electric clock and automatic time switch. Consists of a highly accurate clock with a built-in, single-pole, single-throw switch rated 15 amperes at 125 volts AC. Two easy-to-operate switch controls are conveniently located on the outer edge of the clock dial. Switch can be used for versatile control of an AC radio or any appliance such as a coffee-maker, hot plate, lamp, etc. One of the switch controls permits selecting manual "on" and "off" operation; or automatic turning on of the controlled device at a preselected time within a 12-hour period. Automatic operation can also be employed with a signal alarm sounding 10 minutes after "on cycle" begins. This feature is excellent for use with a radio to "wake-up-to-music." The other switch control permits selecting a definitely timed on cycle of up to one hour duration—can be used with radio as "sleep switch."

Excellent for mounting in present cabinets. Converts any AC operated radio to a modern clock radio. An ideal service replacement for clock radios. Can be mounted in a small case with an AC outlet for portable use. Outer dial ring and sweep second hand are of highly polished brass. Numbers are etched in brown on outer dial. Dial face is finished in soft ivory with matching brown minute and hour hands. Time-adjust and alarm set are selected with 3" long control on rear of clock. Rugged low speed motor is silent in operation. Outer brass bezel is 3 1/2 inches square. Four mounting studs built on for ease of installation. Requires four 3/16" holes 3/16 inches apart. U.L. approved. For 110-120 v., 60 cycle only. Wt., 2 lbs.

78 B 363. NET..... 5.49

MONTGOMERY PROGRAM CLOCK

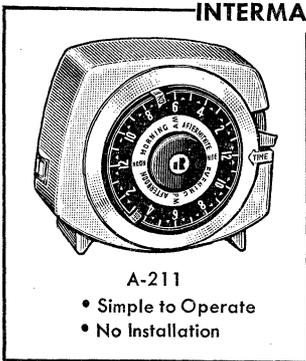


Model M-24. Ideal for schools, industrial and service organizations. Provides dependable automatic control and operation of buzzers, bells or horns, on a 24-hour schedule. Permits manual operation at any time for special program schedules, or sounding emergency alarm, without affecting accuracy of preset schedule.

Eliminates clock watching and button pushing. Program schedules can easily be set or changed by inserting pins in desired time slots of 24-hour mechanism. Program disks have 288 time slots—permit actuating signal at up to 5 minute intervals. Duration of signal is adjustable from 4 to 20 seconds. Program mechanism is automatically set to correct time by turning the clock hands—assures perfect synchronization. Switch for silencing of signals during any days or nights of the week. Single-circuit timer contacts rated at 10 amperes. Gray enameled steel case. 11x8x4". For 110-120 volts, 60 cycle AC. Shpg. wt., 12 lbs.

78 BX 351. \$8.77 Down. NET..... 87.71

INTERMATIC CLOCK TIMERS



A-211

- Simple to Operate
- No Installation

MODEL A-211 "TIME-ALL"

Time control switch for office, store or home. Excellent for controlling lights or appliances, etc. Has manual control with automatic reset. Turns lights "on" and "off" at preset times—gives house a "lived in" look to discourage prowlers while owners are out or away on a vacation.

Min. "on" time, 15 min.; max., 23 hrs., 45 min. AC outlet for equipment to be controlled. Size, 5x4x2 1/2". Handles 15 amps, 1650-watt load. With 6-ft. cord, plug, instructions. For 110-120 v., 60 cycle AC. Shpg. wt., 2 lbs.

78 B 311. List, \$11.95. NET..... 7.97

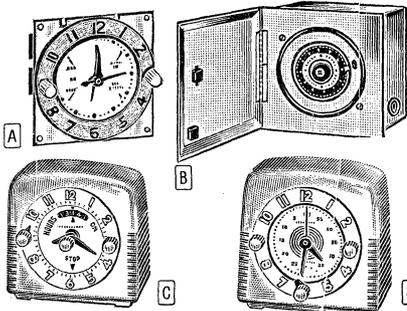
Model A-221. As above, but handles 7 amps, 875 watts. Shpg. wt., 2 lbs.

78 B 397. List, \$9.95. NET..... 6.64

MODEL RC2021-4 SWITCH

A Automatically turns on radios, television sets, toasters, and other electrical devices—at any preset time within a 12-hour period. Also serves as an accurate, highly attractive timepiece. An excellent musical alarm. May be installed in a small case with an AC outlet and line cord. All controls, off-automatic-on, time adjust and timer set, conveniently located on chrome outer dial face. Easy to install. Requires 3 1/2" diameter hole; overall size, 3 1/2x3 1/2x1 1/16" deep. Built-in single-pole switch handles appliances drawing up to 15 amps, 1650-watt load. Mounting centers, 3 1/16". U.L. Approved. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 1 lb.

78 B 399. List, \$9.00. 1 to 5, NET..... 6.44
6 or More, EACH..... 5.93



MODEL T-1101 "LAMP-LYTER"

B Electrical time switch for flush-mounting in walls or hi-fi cabinets. Provides a timed "on" and "off" cycle for controlling lights, heaters, hi-fi, or appliances automatically. Min. "on" time, 15 min.; max., 23 3/4 hours. Can be switched "on" or "off" manually; timed cycle resumes automatically. SPST switch rated 15 amps, 1650 watts. 6 1/2x6 1/2x2 1/4". Beige finished door has concealed hinges; magnet holds door closed. Requires 5x5" cutout. For 110-120 v., 60 cycle AC. Shpg. wt., 4 lbs.

78 B 398. List, \$21.95. NET..... 14.27

MODEL A-401 "CLOCK-TIMER"

C Combination clock and switch. For automatically turning appliances "on" and "off" at preset times. Min. "on" time, 1/4 hour; max., 5 1/2 hours. SPST switch rated 15 amps, 1650 watts. AC receptacle for plugging in appliances. Green plastic case. 6-ft. cord and plug. 4 1/2x4 3/4x2 1/4". U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 2 lbs.

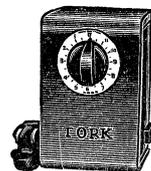
78 B 343. List, \$11.95. NET..... 9.38

MODEL A-301 "TIME-MINDER"

D Electrical time switch and signal timer. Can be set to time any pre-set interval from 1 min. to 4 hrs. Pleasant toned buzzer sounds at end of interval and keeps going until turned off manually. An excellent signalling device. Timer is accurate within seconds and easily set with large, easy-to-read pointer. Spruce green plastic case. Clock and timing interval are both set from front panel. No installation is necessary—just plug the timer in and it's ready to go. U.L. Approved. Has 6-ft. cord and plug. Size, 4 1/2x4 3/4x2 1/4". For operation from 110-120 v., 60 cycle AC. 2 lbs.

78 B 342. List, \$8.95. NET..... 7.03

TORK 2925-P INTERVAL TIMERS



Interval timers for automatic timed operation of electrical appliances rated up to 1650 watts. Can be set for any time interval up to the maximums shown below. Ideal for timed control of such appliances as cookers,

roasters, waffle irons, sun lamps, coffee makers, etc. Setting pointer to desired time closes SPST 15 ampere switch and starts interval—when time has elapsed, switch opens automatically. Built-in AC receptacle. White enamel finish. With cord and plug. 4 1/2x3 1/2x3". U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 2 lbs.

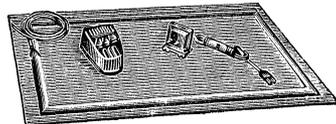
Model 2925-4P. Max. setting, 4 hrs.
78 B 347. List, \$15.95. NET..... 10.36

Model 2925-12P. Max. setting, 12 hours.
78 B 348. List, \$15.95. NET..... 10.36

Model 2925-24P. Max. setting, 24 hours.
78 B 349. List, \$15.95. NET..... 10.36

Model 2925-1P. Max. setting 1 hour.
78 B 362. List, \$15.95. NET..... 10.36

"SWITCHMAT" STEP-ON SWITCH



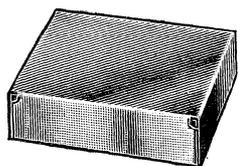
"Announcemat" Chime Alarm. Low-cost, practical alarm system for stores, offices, homes and industry. Signals the presence of visitors or intruders. Even the step of a small child on any part of the Switchmat sounds the alarm. Rugged Switchmat is 3/16" thick, heavily ribbed brown vinyl plastic. Completely protected—sealed between layer of plastic and rubber. Resistant to cleaning and sweeping compounds, oils, acids and most chemicals. Lies completely flat on floor—will not slip or slide even on polished floors. No installation problems—simply plugs into wall outlet. Can be quickly and safely installed by anyone. Switchmat operates on extremely low voltage supplied by transformer which is included.

Complete with 18x30" commercial-type Switchmat, transformer with 6-ft. cord and plug, 25-ft. low-voltage cable and chime signal alarm. For 110-120 v., 60 cycle AC. Shpg. wt., 13 lbs.

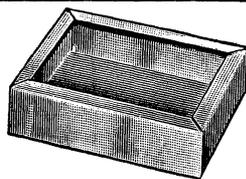
78 BX 358. \$2.40 Down. NET..... 23.96

Bud Metal Products

STANDARD CHASSIS BASES



High-quality, sturdily constructed chassis bases. Available in zinc-plated and black-wrinkle steel, and lightweight aluminum types. Carefully formed, one-piece construction; corners are reinforced and spot-welded. The four sides are folded at the bottom to provide additional strength; bottom fold also permits easy addition of bottom plate. Aluminum types are spot-welded with government approved equipment; same as used for welding aluminum aircraft parts. Steel chassis gauges: *No. 22; †No. 20; ‡No. 18. Aluminum chassis gauges (aluminum gauge): †No. 18; **No. 16; ††No. 14. Less bottom plates.



H. W. D. Inches	Black-Wrinkle Steel				1-24 EA.	25-49 EA.	50-99 EA.	H. W. D. Inches	Zinc-Plated Steel				1-24 EA.	25-49 EA.	50-99 EA.
	Stock No.	Type	Lbs.						Stock No.	Type	Lbs.				
2x7x5	80 P 456	CB-628*	1	1.05	.94	.84	2x7x5	86 P 277	CB-629*	1 1/4	1.27	1.15	1.02		
2 1/2x9 1/2x5	80 P 457	CB-644*	1 3/4	1.34	1.21	1.08	2 1/2x9 1/2x5	86 P 905	CB-645*	1 1/2	1.64	1.47	1.31		
1 1/2x9 1/2x5	80 P 458	CB-788*	1	1.18	1.06	.94	1 1/2x9 1/2x5	86 P 906	CB-776*	1 1/4	1.66	1.49	1.32		
3x10x5	80 P 459	CB-604*	1 1/4	1.24	1.12	1.00	3x10x5	86 P 271	CB-605*	1 1/2	1.80	1.63	1.44		
3x14x6	80 P 460	CB-755†	1 3/4	1.71	1.55	1.37	3x14x6	86 P 907	CB-756†	2	2.01	1.81	1.61		
2x7x7	80 P 461	CB-789†	1 1/2	1.18	1.06	.94	2x7x7	86 P 272	CB-1191†	1 3/4	1.47	1.32	1.18		
2x9x7	80 P 462	CB-790†	1 1/2	1.37	1.23	1.10	2x9x7	86 P 273	CB-1192†	1 3/4	1.56	1.40	1.24		
2x11x7	80 P 463	CB-791*	1 1/2	1.42	1.28	1.14	2x11x7	86 P 274	CB-1193†	1 3/4	1.64	1.47	1.31		
3x12x7	80 P 464	CB-792†	1 3/4	1.54	1.38	1.23	3x12x7	86 P 275	CB-793†	2	2.01	1.81	1.61		
2 1/2x7x7	80 P 465	CB-646†	1 1/2	1.36	1.26	1.19	2 1/2x7x7	86 P 276	CB-1194†	2 1/4	1.88	1.70	1.51		
2 1/2x13 1/2x5	80 P 466	CB-647†	1 1/2	1.73	1.56	1.39	2 1/2x13 1/2x5	86 P 908	CB-1198†	2	2.13	1.91	1.71		
3x15x7	80 P 467	CB-649†	2	1.96	1.76	1.57	3x15x7	86 P 909	CB-1189†	2 1/4	2.35	2.12	1.88		
3x15x8 1/2	80 P 468	CB-665†	2 1/2	2.20	1.98	1.75	3x15x8 1/2	86 P 910	CB-666†	2 3/4	2.66	2.39	2.13		
3x17x4	80 P 469	CB-1068†	2 1/4	1.76	1.59	1.41	3x17x4	86 P 911	CB-1066†	2 1/4	2.10	1.89	1.68		
2 1/2x17x7	80 P 470	CB-648†	2 1/2	1.95	1.75	1.56	2 1/2x17x7	86 P 912	CB-1199†	2 1/4	2.32	2.09	1.86		
3x17x7	80 P 471	CB-757†	2 1/4	2.11	1.90	1.69	3x17x7	86 P 913	CB-758†	2	2.54	2.28	2.03		
2 1/2x10x8	80 P 472	CB-701†	2	1.69	1.52	1.35	2 1/2x10x8	86 P 914	CB-702†	2 1/4	1.98	1.78	1.59		
2 1/2x12x8	80 P 473	CB-703†	2 1/2	1.71	1.55	1.37	2 1/2x12x8	86 P 915	CB-704†	2 1/4	2.20	1.98	1.75		
3x12x8	80 P 474	CB-759†	1 3/4	1.81	1.64	1.45	3x12x8	86 P 916	CB-760†	2	2.29	2.07	1.83		
2x17x8	80 P 475	CB-650†	2 1/2	1.67	1.50	1.33	2x17x8	86 P 917	CB-774†	2 3/4	2.29	2.07	1.83		
3x17x8	80 P 476	CB-651†	3 1/4	2.01	1.81	1.61	3x17x8	86 P 918	CB-775†	3 1/2	2.57	2.31	2.06		
3x12x10	80 P 477	CB-652†	3	1.85	1.67	1.48	3x12x10	86 P 919	CB-1195†	3 1/4	2.20	1.98	1.75		
3x14x10	80 P 478	CB-653†	4	2.00	1.80	1.60	3x14x10	86 P 920	CB-779†	4	2.39	2.16	1.91		
2x17x10	80 P 479	CB-654†	3 1/4	1.96	1.76	1.57	2x17x10	86 P 278	CB-769†	3 1/2	2.34	2.11	1.87		
3x17x10	80 P 480	CB-636†	4	2.96	2.76	2.57	3x17x10	86 P 921	CB-1196§	5 1/2	2.99	2.69	2.39		
3x17x10	80 P 481	CB-655†	5	2.49	2.24	1.99	3x17x10	86 P 922	CB-637†	4	2.78	2.51	2.22		
3x23x10	80 P 482	CB-656†	5 1/2	2.80	2.52	2.24	3x23x10	86 P 923	CB-1197§	6	3.35	3.02	2.69		
2x17x11	80 P 483	CB-657§	4 1/2	2.30	2.08	1.84	2x17x11	86 P 923	CB-770§	4 3/4	2.75	2.48	2.20		
3x17x11	80 P 484	CB-658§	4 1/2	2.71	2.44	2.18	3x17x11	86 P 266	CB-771§	4 3/4	3.42	3.08	2.73		
2x17x12	80 P 485	CB-663§	4 1/2	2.39	2.16	1.91	2x17x12	86 P 925	CB-661§	4 3/4	3.03	2.72	2.42		
3x17x12	80 P 486	CB-664§	5	2.85	2.57	2.28	3x17x12	86 P 268	CB-662§	5 1/4	3.60	3.23	2.88		
2x17x13	80 P 487	CB-659§	5	2.85	2.57	2.28	2x17x13	86 P 269	CB-772§	5 1/2	3.65	3.28	2.92		
3x17x13	80 P 488	CB-660§	5 1/2	3.34	3.01	2.67	3x17x13	86 P 270	CB-773§	6	3.99	3.59	3.19		
4x17x10	80 P 489	CB-640§	6 1/2	2.86	2.58	2.29	4x17x10	86 P 926	CB-641§	7	3.44	3.10	2.75		
4x17x13	80 P 490	CB-642§	7 1/2	3.84	3.46	3.08	4x17x13	86 P 927	CB-643§	8	4.59	4.13	3.67		
5x17x10	80 P 491	CB-623§	8	4.42	3.98	3.54	5x17x10	86 P 928	CB-624§	8	5.23	4.71	4.19		
5x17x13	80 P 492	CB-625§	8	4.63	4.35	3.86	5x17x13	86 P 929	CB-626§	8 1/2	5.81	5.23	4.65		

Aluminum

Aluminum

Size Inches	Stock No.	Mfrs. Type	Wt. Lbs.	1-24 EA.	25-49 EA.	50-99 EA.	Size Inches	Stock No.	Mfrs. Type	Wt. Lbs.	1-24 EA.	25-49 EA.	50-99 EA.
2x6x4	86 P 930	AC-431†	3/4	1.08	.97	.86	3x17x7	86 P 938	AC-423**	1 1/4	2.69	2.43	2.16
2x7x5	86 P 112	AC-402†	2	1.15	1.03	.92	3x12x9	86 P 939	AC-424**	1 3/4	2.37	2.14	1.91
2x9 1/2x5	86 P 932	AC-403†	3/4	1.22	1.10	.97	2x17x8	86 P 940	AC-425**	1 3/4	2.46	2.21	1.97
3x6x4	86 P 932	AC-430†	3/4	1.31	1.19	1.05	3x17x8	86 P 120	AC-412**	2	2.67	2.51	2.22
3x7x5	86 P 933	AC-429**	1	1.39	1.25	1.12	3x12x10	86 P 121	AC-413**	1 3/4	2.62	2.35	2.10
3x9 1/2x5	86 P 114	AC-411**	1	1.57	1.41	1.25	3x14x10	86 P 941	AC-414**	2	2.78	2.51	2.22
3x10x5	86 P 127	AC-404†	1	1.60	1.44	1.27	2x17x10	86 P 942	AC-415**	1 1/2	2.63	2.36	2.10
3x13x5	86 P 934	AC-422†	1	1.80	1.63	1.44	3x17x10	86 P 943	AC-416**	2 1/4	3.11	2.79	2.49
3x17x6	86 P 935	AC-433**	1 1/2	2.62	2.35	2.10	2x17x11	86 P 122	AC-426††	2 1/2	3.35	3.02	2.69
2x7x7	86 P 115	AC-405†	3/4	1.32	1.20	1.06	3x17x11	86 P 123	AC-417††	3	3.89	3.50	3.12
2x9x7	86 P 116	AC-406†	3/4	1.43	1.28	1.15	3x17x12	86 P 128	AC-418††	3	4.00	3.60	3.19
2x11x7	86 P 117	AC-407†	1	1.55	1.39	1.23	2x17x13	86 P 944	AC-419††	2 3/4	3.44	3.10	2.75
3x12x7	86 P 118	AC-408†	1 1/4	1.96	1.76	1.57	3x17x13	86 P 124	AC-420††	3	4.17	3.75	3.34
2x13x7	86 P 119	AC-409†	1	1.64	1.47	1.31	4x17x10	86 P 125	AC-427††	3 3/4	4.42	3.98	3.54
3x15x7	86 P 936	AC-411**	1 3/4	2.62	2.35	2.10	4x17x13	86 P 126	AC-428††	4	5.15	4.64	4.13
3x17x4	86 P 937	AC-432**	1 1/2	2.28	2.06	1.82							

BOTTOM PLATES FOR CHASSIS BASES

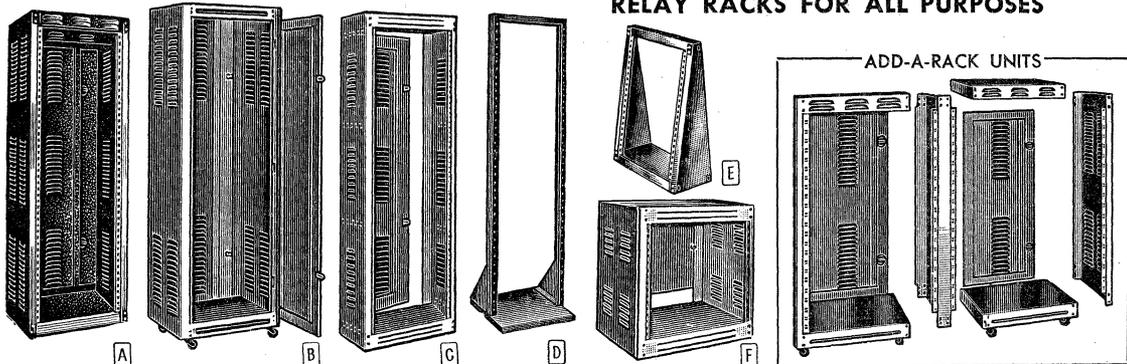
Bottom plates to fit the chassis bases listed above. In zinc-plated or black ripple heavy-gauge steel plate and sturdy, lightweight aluminum for exact matching with chassis. Serve as an effective shielding against dust

and dirt. All bottom plates have four raised bosses in corners to prevent marring and scratching of table-tops or shelves. Drilled for use with No. 6 self-tapping screws.

Size	Black Wrinkle				1-49 EA.	50-99 EA.	100-149 EA.	Size	Zinc Plated				1-49 EA.	50-99 EA.	100-149 EA.
	Stock No.	Type No.	Lbs.						Stock No.	Type No.	Lbs.				
5x7"	80 P 386	BP-705	1	.56	.50	.45	5x7"	80 P 406	BP-706	1	.68	.61	.54		
5x9 1/2"	80 P 387	BP-680	1 1/4	.61	.55	.49	5x9 1/2"	80 P 407	BP-667	1 1/4	.73	.66	.58		
5x10"	80 P 388	BP-536	1 1/4	.66	.59	.53	5x10"	80 P 408	BP-538	1 1/4	.72	.65	.57		
7x7"	80 P 389	BP-681	1 1/2	.99	.81	.73	7x7"	80 P 409	BP-668	1 1/2	.95	.85	.76		
7x9"	80 P 390	BP-682	1 1/2	.92	.83	.73	7x9"	80 P 410	BP-669	1 1/2	.97	.87	.77		
7x11"	80 P 391	BP-683	1 1/2	.93	.84	.74	7x11"	80 P 411	BP-670	1 1/2	1.05	.94	.84		
7x12"	80 P 392	BP-537	1 1/2	.97	.87	.77	7x12"	80 P 412	BP-539	1 1/2	1.10	.99	.88		
7x13"	80 P 393	BP-684	1 3/4	1.00	.90	.80	7x13"	80 P 413	BP-671	1 3/4	1.18	1.06	.94		
5x13 1/2"	80 P 394	BP-685	1 1/2	.82	.74	.66	5x13 1/2"	80 P 414	BP-672	1 1/2	.98	.88	.78		
4x17 1/2"	80 P 395	BP-1069	2	.82	.74	.66	4x17 1/2"	80 P 415	BP-1067	2	1.05	.94	.84		
7x17"	80 P 396	BP-686	2	.88	.79	.71	7x17"	80 P 416	BP-673	2	1.34	1.21	1.08		
8x10"	80 P 400	BP-707	1 3/4	.90	.81	.73	8x10"	80 P 417	BP-708	1 3/4	1.03	.92	.82		
8x12"	80 P 397	BP-709	2	1.04	.93	.83	8x12"	80 P 418	BP-710	2	1.31	1.19	1.05		
8x17"	80 P 398	BP-687	2 1/4	.93	.84	.74	8x17"	80 P 419	BP-674	2 1/4	1.51	1.36	1.21		
10x12"	80 P 399	BP-688	2	.93	.84	.74	10x12"	80 P 420	BP-675	2	1.54	1.38	1.23		
10x14"	80 P 401	BP-517	2	1.22	1.11	.98	10x14"	80 P 421	BP-514	2	1.30	1.18	1.04		
10x17"	80 P 402	BP-689	2 1/4												

Bud Relay Racks and Cabinets

RELAY RACKS FOR ALL PURPOSES



DELUXE ENCLOSED RACKS

A Ruggedly constructed racks, 16-gauge steel with 1/8" panel supports. Have sturdy bottom supports which permit fastening casters directly to base. All have chassis-type base. Accurately drilled and tapped for 19" panels. Complete with hardware.

Overall Size	Panel Height	Mfr's Type	Gray Hammertone	Gray Wrinkle	Black Wrinkle	Wt., Lbs.	NET EACH		
							1-9	10-14	15-19
42 1/16x22x17 1/8"	36 3/4"	CR-1774	88 PZ 503	98 PZ 808	86 PZ 819	90	44.27	39.84	35.42
47 3/16x22x17 1/8"	42"	CR-1771	88 PZ 500	98 PZ 843	86 PZ 816	95	50.08	45.07	40.06
60 3/16x22x17 1/8"	61 1/4"	CR-1772	88 PZ 501	98 PZ 844	86 PZ 817	122	62.69	56.41	50.15
82 3/16x22x17 1/8"	77"	CR-1773	88 PZ 502	98 PZ 845	86 PZ 818	150	75.04	67.53	60.04
42 1/16x22x22"	36 3/4"	CR-2074	88 PZ 505			120	61.84	55.65	49.47
47 3/16x22x22"	42"	CR-2071	88 PZ 504			127	69.95	62.96	55.96
60 3/16x22x22"	61 1/4"	CR-2072	98 PZ 868			150	87.56	78.81	70.05
82 3/16x22x22"	77"	CR-2073	98 PZ 869			175	104.01	93.61	83.20

ADD-A-RACK SERIES

For addition of rack cabinets to deluxe, enclosed racks (Fig. A, above). Consist of four sections: Top, bottom, door and coupling panel. Replace either side panel of deluxe racks with coupling panel; add new top and bottom; attach original side panel to new top and bottom. Placing new door on back completes assembly. Same sizes and construction as deluxe racks. With hardware.

Gray Hammertone	Gray Wrinkle	Black Wrinkle	Mfr's Type	Used With	Shpg. Wt., Lbs.	NET EACH		
						1-9	10-14	15-19
88 PZ 506	98 PZ 817	86 PZ 806	AR-1775	CR-1771	77	48.03	43.23	38.43
88 PZ 507	98 PZ 818	86 PZ 807	AR-1776	CR-1772	100	59.70	53.76	47.79
88 PZ 508	98 PZ 819	86 PZ 808	AR-1777	CR-1773	127	73.30	66.06	58.72
88 PZ 509	98 PZ 816	86 PZ 805	AR-1778	CR-1774	75	43.45	39.11	34.76
88 PZ 510			AR-2276	CR-2072	130	83.47	75.12	66.78
88 PZ 511			AR-2277	CR-2073	150	101.67	91.51	81.34
88 PZ 512			AR-2278	CR-2074	107	58.94	53.05	47.15
88 PZ 513			AR-2275	CR-2071	113	66.68	60.02	53.34

SUPER-DELUXE ENCLOSED CABINET RACKS

B Similar to deluxe cabinet racks above, but with adjustable panel mounting supports; panel can be positioned from 1" to 6" behind cabinet front, at 1" intervals. Front and rear doors, 1/8" panel supports. Casters may be fitted directly to base. With hardware.

Overall Size	Panel Height	Mfr's Type	Gray Hammertone	Gray Wrinkle	Black Wrinkle	Wt., Lbs.	NET EACH		
							1-9	10-14	15-19
42 1/16x22x17 1/8"	36 3/4"	CR-2174	88 PZ 517	98 PZ 856	86 PZ 834	108	62.85	56.57	50.27
47 3/16x22x17 1/8"	42"	CR-2171	88 PZ 514	98 PZ 857	86 PZ 856	117	71.20	64.08	56.97
60 3/16x22x17 1/8"	61 1/4"	CR-2172	88 PZ 515	98 PZ 858	86 PZ 857	146	91.89	82.70	73.52
82 3/16x22x17 1/8"	77"	CR-2173	88 PZ 516	98 PZ 859	86 PZ 858	191	110.31	99.27	88.25

SPACE SAVER RELAY RACKS AND ADD-A-RACKS

C Space Saver relay racks are only 10" deep. Sturdy 16-gauge steel. Panel mounting supports adjustable (front to rear) at 1" intervals. Removable rear door. Width 22"; inside depth 9". Take standard 19" panels. May be used with Add-A-Racks listed below.

Overall Height	Panel Height	Gray Hammertone	Mfr's Type	Wt., Lbs.	NET EACH			Gray Hammertone	Mfr's Type	Used With	Wt., Lbs.	NET EACH		
					1-9	10-14	15-19					1-9	10-14	15-19
47 3/16"	42"	88 PZ 518	RR-1271	64	35.87	32.28	28.69	88 PZ 521	AR-1275	RR-1271	54	34.20	30.78	27.36
60 3/16"	61 1/4"	88 PZ 519	RR-1272	84	44.93	40.43	35.95	88 PZ 522	AR-1276	RR-1272	69	42.87	38.58	34.30
75 3/16"	70"	88 PZ 520	RR-1273	93	52.67	47.40	42.14	88 PZ 523	AR-1277	RR-1273	76	50.22	45.20	40.18

OPEN-TYPE RELAY RACKS

Have chassis-type base, except *has 1/4" iron angles and brackets to permit bolting unit to floor. In Hammertone or wrinkle finish.

Overall Size	Panel Height	Mfr's Type	Gray Hammertone	Black Wrinkle	Shpg. Wt., Lbs.	NET EACH		
						1-9	10-14	15-19
35 3/16x20x22"	31 1/2"	RR-1263	88 PZ 524	98 PZ 840	38	21.28	19.15	16.99
40 5/16x20x22"	36 3/4"	RR-1363	88 PZ 527	86 PZ 859	37	21.53	19.37	17.22
70 3/16x20x22"	66 1/2"	RR-1264	88 PZ 525	98 PZ 841	53	24.30	21.87	19.44
72 1/4x20 3/8x13"	66 1/2"	*RR-1265		98 PZ 809	100	53.68	48.31	42.94
75 5/16x20x22"	71 3/4"	RR-1364	88 PZ 528	86 PZ 877	46	24.63	22.17	19.70
81 7/16x20x22"	77"	RR-1366	88 PZ 529	86 PZ 878	48	29.38	26.44	23.50

DESK-TYPE RACKS

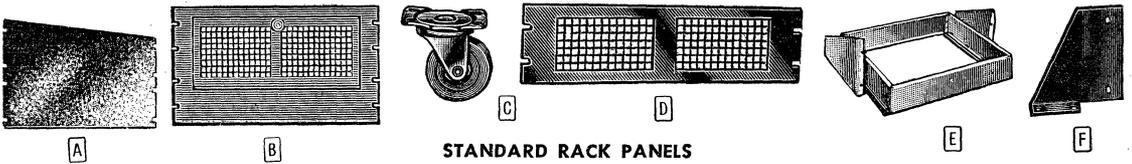
Overall Size	Panel Height	Mfr's Type	Gray Hammertone	Black Wrinkle	Shpg. Wt., Lbs.	NET EACH		
						1-14, EACH	15-24, EACH	25-34, EACH
24x20 3/8x12"	21"	RR-1248	86 PU 879	98 PU 848	15	8.91	8.03	7.13
31x20 3/8x12"	28"	RR-1249	86 PU 880	98 PU 849	17	10.97	9.87	8.77

HEAVY-DUTY CABINET RACKS AND ADD-A-CABS

F For use where increased depth of cabinet is required. Overall width 22"; clear inside depth 16 1/4". Top and bottom similar to those of racks in Fig. A, above. Has hinged removable rear door. Louvered sides and 2 1/2x17 1/2" rear opening at bottom for ventilation. Save by ordering Add-A-Cabs for additional cabinets. Consists of top, bottom, back and one side. Uses one common side.

Overall Height	Panel Height	Gray Hammertone	Mfr's Type	Wt., Lbs.	NET EACH			Gray Hammertone	Mfr's Type	Used With	Wt., Lbs.	NET EACH		
					1-14	15-24	25-34					1-14	15-24	25-34
24 1/2"	19 1/4"	88 PU 530	CR-1736	48	26.12	23.50	20.89	88 PU 533	ACR-1936	CR-1736	41	24.89	22.40	19.91
31 1/2"	26 1/4"	88 PZ 531	CR-1737	55	28.17	25.35	22.54	88 PZ 534	ACR-1937	CR-1737	48	26.85	24.17	21.48
40 1/4"	35"	88 PZ 532	CR-1738	64	33.47	30.11	26.77	88 PZ 535	ACR-1938	CR-1738	55	31.90	28.70	25.52

Bud Rack Accessories and Miniboxes



STANDARD RACK PANELS

A Heavy-duty rack panels of 1/8" thick aluminum or steel. All are 19" wide and have notched edges to fit mounting screw spacing of all standard and telephone type relay racks. In the color columns of the tables below, *indicates wrinkle and flammertone.

Height	Steel			NET EACH			Aluminum			NET EACH				
	*Black	*Gray	†Gray	Lbs.	1-49	50-99	100-149	*Black	*Gray	†Gray	Lbs.	1-49	50-99	100-149
1 3/4"	98 PX 723	98 PX 738	88 PX 589	2	.82	.74	.66	98 PX 864	98 PX 895	88 PX 601	1	1.07	.96	.85
3 1/2"	98 PX 724	98 PX 739	88 PX 590	3	.98	.88	.78	98 PX 865	98 PX 896	88 PX 602	2	1.39	1.25	1.12
5 1/4"	98 PX 725	98 PX 740	88 PX 591	4	1.22	1.11	.98	98 PX 866	98 PX 897	88 PX 603	2	1.88	1.70	1.51
7"	98 PX 726	98 PX 741	88 PX 592	6	1.39	1.25	1.12	98 PX 867	98 PX 898	88 PX 604	2	2.37	2.14	1.90
8 3/4"	98 PX 727	98 PX 742	88 PX 593	7	1.71	1.55	1.37	98 PX 887	98 PX 899	88 PX 605	3	2.78	2.51	2.22
10 1/2"	98 PX 728	98 PX 743	88 PX 594	8	2.05	1.84	1.64	98 PX 888	98 PX 877	88 PX 606	3	3.52	3.17	2.81
12 1/4"	98 PX 729	98 PX 744	88 PX 595	9	2.37	2.14	1.90	98 PX 889	98 PX 878	88 PX 607	4	4.01	3.61	3.20
14"	98 PX 730	98 PX 745	88 PX 596	10	2.78	2.51	2.22	98 PX 890	98 PX 879	88 PX 608	5	4.66	4.19	3.73
15 3/4"	98 PX 731	98 PX 746	88 PX 597	12	3.03	2.72	2.45	98 PX 891	98 PX 880	88 PX 609	5	5.23	4.71	4.18
17 1/2"	98 PX 735	98 PX 747	88 PX 598	13	3.44	3.10	2.75	98 PX 892	98 PX 862	88 PX 610	5	5.73	5.16	4.59
19 1/4"	98 PX 736	98 PX 748	88 PX 599	14	3.76	3.39	3.01	98 PX 893	98 PX 863	88 PX 611	6	6.30	5.67	5.04
21"	98 PX 737	98 PX 749	88 PX 600	15	4.17	3.75	3.34	98 PX 894	98 PX 803	88 PX 612	7	6.87	6.18	5.50

STEEL DOOR RACK PANELS

B Extremely useful when accessibility to component parts on the chassis is important. Made of 1/4" sheet steel, panels are 19" wide. Newly designed, plunger-type lock makes certain door is easy to open and lock. Available in choice of either black or gray wrinkle finish or light gray hammered finish. Height: PS-814 and PS-615, 10 1/2"; PS-815 and PS-616, 12 1/4". Offered in both ventilated as well as solid door styles. *Ventilated door (square perforations). Av. shpg. wt., 9 lbs.

Gray Wrinkle	Black Wrinkle	Gray Hammered	Mfr's Type	NET EACH		
				1-49	50-99	100-149
88 PX 613	88 PX 617	88 PX 620	PS-615	5.96	5.36	4.76
88 PX 614	88 PX 175	88 PX 621	PS-616	7.37	6.63	5.90
88 PX 615	88 PX 618	88 PX 622	PS-814*	7.37	6.63	5.90
88 PX 616	88 PX 619	88 PX 623	PS-815*	8.10	7.29	6.49

SWIVEL TRUCK CASTERS

C Type RC-7756. Heavy duty, ball-bearing casters for Bud deluxe relay racks. Support up to 400 lbs. distributed on four casters. Wheels are high grade, hard rubber. Shpg. wt., 10 oz.
88 PX 624, 1-49, NET EACH.....88c
60-99, EACH.....79c 100-149, EACH.....71c

VENTILATED GRILL PANELS

D Constructed of durable 1/8" thick steel. The grill is die-stamped in the panel. Ideal for use where additional ventilation for equipment is needed. All panels are 19" wide and are available in a choice of black or gray wrinkle finish or light gray hammered finish. *Indicates 3/4" space provided from bottom of panel to ventilated portion of the panel to allow for chassis mounting. Av. shpg. wt., 5 lbs.

Hgt.	Gray Wrinkle	Black Wrinkle	Gray Hammered	Mfr's Type	NET EACH		
					1-49	50-99	100-149
5 1/4"	88 PX 625	88 PX 630	88 PX 635	PS-808	3.19	2.87	2.55
7"	88 PX 626	88 PX 631	88 PX 636	PS-809	3.47	3.13	2.77
8 3/4"	88 PX 627	88 PX 632	88 PX 637	PS-810*	4.17	3.75	3.34
10 1/2"	88 PX 628	88 PX 633	88 PX 638	PS-811*	4.42	3.98	3.54
12 1/4"	88 PX 629	88 PX 634	88 PX 639	PS-812*	4.74	4.27	3.79

RELAY RACK SLIDE DRAWER

E Type SD-1717. Sliding drawer assembly for any standard rack or cabinet. Excellent for record player or portable typewriter base, writing table and many other practical uses. Easily and quickly assembled and installed in any standard rack. Stop screw on slide rail prevents drawer from falling out of channel. Will support up to 50 lbs. 16 1/2"x14 3/8". Shpg. wt., 5 lbs.
88 PX 640, 1-14, NET EACH.....11.20
15-24, EACH.....10.08 25-34, EACH.....8.96

Type TP-1718. Aluminum-plate bottom for drawer above. Also attaches to top of drawer for shelf, desk top or support. 14 gauge aluminum with gold finish. Four mounting holes. Size, 16 1/2"x14". Wt., 1 1/4 lbs.
86 PX 257, 15-24, EA., 2.25 25-34, EA., 2.01 1-14, EA., 2.51

ALUMINUM MINIBOXES

Two-piece boxes with handsome gray Hammertone or natural aluminum finish—offered in a wide selection of sizes to fit many types of electronic devices. Particularly suited for housing above-chassis or below-chassis sub-assemblies—also excellent for complete, self-contained units where effective shielding as well as protection from dust and dirt is required. May be used for phone amplifiers, VHF and UHF converters, low-pass TVI filters, test and measurement units, etc. Valuable for experi-

CHASSIS MOUNTING BRACKETS

F Heavy-gauge steel, cut away for chassis 3" high, except *4" chassis.

Stock No.	Mfr's Type	Ht.	Depth	Wt. Lbs.	NET PER PAIR		
					1-49 PR.	50-99 PR.	100-149 PR.
86 P 219	MB-458	6 1/2"	8"	2	1.07	.96	.85
86 P 220	MB-448	6 1/2"	10"	3	1.32	1.20	1.06
86 P 218	MB-459	6 1/2"	11"	3	1.47	1.32	1.18
86 P 221	MB-449	6 1/2"	12"	3	1.71	1.55	1.37
86 P 224	MB-460	6 1/2"	13"	3	1.66	1.49	1.32
86 P 222	MB-450	8 1/2"	10"	3	1.93	1.73	1.55
86 P 223	MB-451	8 1/2"	13"	4	2.05	1.84	1.64

TRIANGULAR PANEL BRACKETS

(Not illus.) Panel-mounted chassis support. Heavy steel. Black enamel.

Stock No.	Mfr's Type	Ht.	Depth	Wt. Lbs.	NET PER PAIR		
					1-49 PR.	50-99 PR.	100-149 PR.
86 P 226	MB-1266	5"	5"	1	.98	.88	.78
86 P 227	MB-1267	7"	7"	2	1.15	1.03	.92
86 P 228	MB-1268	9"	9"	2	1.39	1.25	1.12

CHASSIS SUPPORTING ANGLES

(Not illus.) Relay rack runners; 3/4" steel. For heavy chassis, shelves.

Stock No.	Mfr's Type	H. W. D.	Wt. Lbs.	NET PER PAIR		
				1-24 PR.	25-49 PR.	50-99 PR.
86 P 235	SA-1349	1 1/2"x3x14 1/2"	4	2.20	1.99	1.76
88 P 641	SA-1350	1 1/2"x3x12"	3	2.13	1.91	1.71

UTILITY HANDLES

Strong handles with comfortable grip. Made of tubular aluminum with etched finish. 2 oz.

No.	Type	Lgth.	Mtg. ctr.	1-49, EA.	50-99, EA.	100-149, EA.
86 P 849	UH-70A	5 1/8"	4 5/8"	35c	31c	28c
86 P 899	UH-71A	3 3/4"	3 3/4"	29c	26c	24c

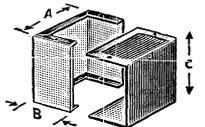
HANDLE CATCH SET

Type CL-7777. Handsome plunger type handle and catch set. Opens with slight pressure of thumb—closes securely with spring-type snap. Chrome-plated aluminum handle. Shpg. wt., 1/4 lb.
86 P 848, 1-49, NET EACH.....1.07
50-99, EACH.....96c 100-149, EACH.....85c

HEAVY-GAUGE STEEL RACK SHELVES

Slide-in type. Require chassis support angles below. Black enamel finish.

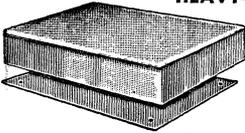
No.	Type	H. W. D.	Lbs.	1-24, EA.	25-49, EA.	50-99, EA.
86 PX 231	CB-1976	1x19x15"	7	3.40	3.06	2.72
86 PX 232	CB-1977	1x19x12"	6	2.59	2.33	2.07



Size AxCxB	Wt. Lbs.	Gray Hammertone	Mfr's Type	NET EACH			Natural Aluminum	Mfr's Type	NET EACH		
				1-49	50-99	100-149			1-49	50-99	100-149
2 3/4x2 1/2x1 3/8"	1/2	80 P 342	CU-2100	.83	.75	.67	80 P 360	CU-3000	.61	.55	.49
3 1/4x2 1/2x1 1/8"	1/2	80 P 359	CU-2117	.82	.74	.66	80 P 377	CU-3017	.61	.55	.49
3 1/4x2 1/2x1 1/8"	1/2	80 P 343	CU-2101	.90	.81	.73	80 P 361	CU-3001	.61	.55	.49
4x2x2 1/2x1 1/8"	1/2	80 P 357	CU-2115	1.07	.96	.85	80 P 375	CU-3015	.73	.67	.59
4x2 1/2x1 1/2x1 1/8"	1/2	80 P 344	CU-2102	.90	.81	.73	80 P 362	CU-3002	.61	.55	.49
4x2 1/2x2 1/4x1 1/8"	1/2	80 P 345	CU-2103	.98	.88	.78	80 P 363	CU-3003	.73	.67	.59
4 1/4x2 1/4x1 1/2"	1/2	80 P 358	CU-2116	.98	.88	.78	80 P 376	CU-3016	.71	.64	.57
5x2 1/4x2 1/4"	3/4	80 P 346	CU-2104	1.07	.96	.85	80 P 364	CU-3004	.76	.69	.61
5x4x3"	1	80 P 347	CU-2105	1.22	1.11	.98	80 P 365	CU-3005	.92	.83	.73
5 1/4x3x2 1/8"	1 1/2	80 P 348	CU-2106	1.07	.96	.85	80 P 366	CU-3006	.80	.73	.65
6x5x4"	1	80 P 349	CU-2107	1.86	1.68	1.49	80 P 367	CU-3007	1.44	1.29	1.16
7x5x3"	1	80 P 350	CU-2108	1.78	1.61	1.43	80 P 368	CU-3008	1.37	1.23	1.10
8x6x3 1/2"	1 1/4	80 P 351	CU-2109	2.19	1.97	1.74	80 P 369	CU-3009	1.69	1.52	1.35
10x2x1 1/2"	3/4	80 P 352	CU-2113	1.35	1.22	1.08	80 P 373	CU-3013	1.13	1.02	.90
10x6x3 1/2"	1 1/2	80 P 355	CU-2110	2.54	2.28	2.03	80 P 370	CU-3010	1.98	1.78	1.59
12x2 1/2x2 1/4"	1 1/2	80 P 356	CU-2114	1.67	1.50	1.33	80 P 374	CU-3014	1.34	1.21	1.08
12x3x3"	1 1/2	80 P 353	CU-2112	3.40	2.88	2.57	80 P 371	CU-3011	2.64	2.39	2.18
17x5x4"	2 1/2	80 P 354	CU-2112	3.44	3.10	2.75	80 P 372	CU-3012	2.86	2.58	2.29

Bud Metal Products

HEAVY-DUTY CHASSIS BASES



Ruggedly constructed chassis bases for heavy duty applications. Formed of one-piece heavy $\frac{1}{8}$ " steel. Electrically spot welded corners and sides folded over at bottom for added strength. Electro-zinc-plated. Supplied complete with bottom plates and mounting screws.

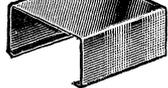
ELECTRO ZINC-PLATED

Stock No.	Mfr's. Type	HWD	Lbs.	NET EACH		
				1-24	25-49	50-99
86 PX 240	CB-1765	3x17x 8"	8	4.66	4.18	3.73
86 PX 242	CB-1767	3x17x11"	9 1/2	4.74	4.27	3.79
86 PX 243	CB-1768	2x17x13"	10 1/2	5.23	4.71	4.18
86 PX 244	CB-1769	3x17x13"	10 1/2	5.32	4.79	4.25
86 PX 946	CB-1770	4x17x13"	11 1/2	5.73	5.16	4.59

BLACK WRINKLE

88 PX 536	CB-1758	3x17x 8"	8	4.17	3.75	3.34
88 PX 537	CB-1760	3x17x11"	9 1/2	4.25	3.83	3.40
88 PX 538	CB-1761	2x17x13"	10	4.74	4.27	3.79
88 PX 539	CB-1762	3x17x13"	10 1/2	4.83	4.35	3.86
88 PX 540	CB-1763	4x17x13"	11 1/2	5.15	4.64	4.13

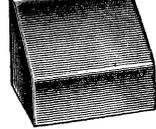
MINIATURE ALUMINUM CHASSIS



Open-end aluminum chassis for limited space applications. Excellent for use with miniature tubes and for sub-assemblies. Have $\frac{1}{4}$ " mounting flanges to allow fastening down of chassis or attachment of a bottom plate. Etched aluminum finish. Av. shpg. wt., $\frac{3}{4}$ lbs.

Stock No.	Mfr's. Type	H. W. D.	For Cabinets	NET EACH		
				1-24	25-49	50-99
80 P 446	CB-1624	1x3 1/4 x 1 3/4"	CU-883	4 1c	3 7c	3 3c
80 P 452	CB-1617	1x3 1/8 x 3/4"	C-1602	4 0c	3 6c	3 2c
80 P 448	CB-1626	1x4 1/8 x 2 3/4"	CU-728	4 4c	3 9c	3 5c
80 P 453	CB-1618	1x4 1/8 x 4"	C-1603	4 9c	4 4c	3 9c
80 P 454	CB-1619	1x5 1/8 x 4"	C-1604	5 2c	4 7c	4 1c
80 P 455	CB-1620	1x6 1/8 x 4"	C-1605	5 4c	4 8c	4 3c
80 P 445	CB-1623	1 1/4 x 2 3/4 x 2 3/8"	.....	3 7c	3 3c	2 9c
80 P 450	CB-1628	1 1/4 x 6 1/8 x 3 3/8"	.....	5 2c	4 7c	4 1c
80 P 449	CB-1627	1 1/2 x 4 1/8 x 3 3/4"	CU-729	4 4c	3 9c	3 5c
80 P 451	CB-1629	1 1/2 x 4 1/8 x 3 3/4"	CU-1098	5 6c	5 0c	4 5c
80 P 447	CB-1625	2x4 1/2 x 3 1/2"	C-1788	4 7c	4 2c	3 7c

SLOPING PANEL UTILITY BOXES



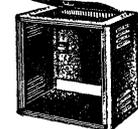
Sloping panel utility boxes are carefully designed to provide streamlined appearance and maximum useable space. Will conveniently house a small amplifier, oscillator, test equipment, etc. Opening is located in rear of box; has $\frac{3}{8}$ " flange to permit simplified back cover mounting. Rigid construction assures proper support and protection for components. All units are 4" high, 4 3/4" deep. Finished in black wrinkle enamel.

Stock No.	Mfr's Type	Width	For Chas. No.	Lbs.	NET EACH		
					1-49	50-99	100-149
80 P 657	C-1602	4"	CB-1617	1/2	1.20	1.08	.96
80 P 672	C-1603	5"	CB-1618	1	1.37	1.23	1.10
80 P 673	C-1604	6"	CB-1619	1	1.44	1.29	1.16
80 P 717	C-1605	7"	CB-1620	1	1.51	1.36	1.21



A large selection of general purpose metal utility cabinets for all types of electronic equipment. Available in either steel or aluminum in choice of finishes and in a wide variety of sizes. Two removable panels provide easy access to inside of cabinet. Panels can also be used for mounting components prior to assembling cabinet. Panels attach to flanges on cabinet with self-tapping screws. For amateurs, experi-

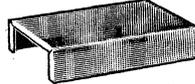
Size, H.W.D.	Stock No. (Steel)		Mfr's Type	Wt. Lbs.	NET EACH		
	Black	Gray			1-49	50-99	100-149
4x4x2"	86 P 200	80 P 332	CU883	1 1/4	1.07	.96	.85
4x5x3"	86 P 201	80 P 333	CU728	1 1/2	1.20	1.08	.96
6x5x4"	86 P 202	80 P 334	CU729	2 1/2	1.35	1.22	1.08
6x6x6"	86 P 203	80 P 335	CU1098	3	1.65	1.54	1.44
9x6x5"	86 P 204	80 P 336	CU1099	4	2.09	2.07	1.83
10x6x7"	86 P 205	80 P 337	CU879	5	3.27	2.95	2.62
10x10x8"	86 P 206	80 P 338	CU880	8	4.20	3.54	3.15
12x7x6"	86 P 206	80 P 338	CU1124	5	3.22	2.90	2.58
12x11x8"	86 P 208	80 P 340	CU881	9	4.25	3.83	3.40
15x9x7"	86 P 209	80 P 341	CU882	9	4.42	3.98	3.54



Attractive, ruggedly constructed 16-gauge steel cabinet racks. Have welded joints. Ideal for commercial broadcast stations, amateur transmitters, sound or test equipment, etc. Cabinets have rounded corners and smart, red inlaid chrome trim. All have recessed, hinged top doors, with snap locks. Ventilation is provided by means of louvered sides and a 2 1/2" opening in the bottom of the back, extending the

Ht.	Panel Space	Stock No.			Mfr's Type	Wt. Lbs.	NET EACH		
		Gray Wrinkle	Black Wrinkle	Gray Hammettone			1-14	15-24	25-34
8 3/8"	7"	88 PU 563	88 PU 564	88 PU 562	CR-1726	25	14.97	13.47	11.98
10 1/8"	8 3/8"	86 PU 730	88 PU 835	88 PU 557	CR-1741	28	16.37	14.73	13.09
12 3/8"	10 1/2"	86 PU 731	88 PU 836	88 PU 558	CR-1740	30	18.24	16.87	14.99
14 1/8"	12 1/4"	86 PU 731	88 PU 836	88 PU 558	CR-1742	32	19.72	17.75	15.78
15 1 3/8"	14"	86 PU 731	86 PU 894	88 PU 555	CR-1739	34	21.52	19.36	17.22
19 5/8"	17 1/4"	86 PU 732	98 PU 837	88 PU 559	CR-1743	38	25.70	23.13	20.56
33 3/8"	31 1/2"	86 PU 895	86 PU 896	88 PU 554	CR-1728	39 1/2	31.34	28.20	25.07
28 1/8"	26 1/4"	86 PU 733	98 PU 838	88 PU 560	CR-1744	48	29.54	26.59	23.63
22 1 3/8"	21"	86 PZ 897	86 PZ 898	88 PZ 553	CR-1727	52	27.50	24.74	22.00
36 1 3/8"	35"	86 PZ 734	98 PZ 839	88 PZ 561	CR-1745	60	32.98	29.68	26.38

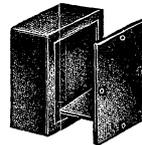
OPEN-END CHASSIS



An excellent selection of open-end, heavy-gauge aluminum chassis. Have U-shaped construction with ends folded over $\frac{3}{8}$ " to provide additional strength. Available in a wide variety of sizes to accommodate nearly every construction requirement. Will provide excellent fit when used with Bud cabinets listed on pages 239 & 240. Electro. zinc-plated. Av. shpg. wt., 1 1/2 lbs.

Stock No.	Mfr's Type	H. W. D.	For Cabinet	NET EACH		
				1-24	25-49	50-99
80 P 437	CB-30	1 1/2 x 7 5/8"	C-973	.95	.85	.76
80 P 438	CB-41	1 1/2 x 7 7/8"	C-993	1.22	1.10	.97
80 P 440	CB-996	1 1/2 x 9 5/8"	C-994, C-1746	1.07	.96	.85
80 P 441	CB-976	1 1/2 x 9 7 1/2"	C-994, C-1747	1.37	1.23	1.10
80 P 443	CB-997	1 1/2 x 11 7/8"	C-994, C-1747	1.27	1.15	1.02
80 P 444	CB-998	1 1/2 x 13 3/7"	C-995, C-1748	1.56	1.40	1.24
80 P 436	CB-38	2x6x7"	C-1584	1.98	.88	.78
80 P 439	CB-39	2x8x7"	C-1585	1.18	.88	.92
80 P 442	CB-40	2x10x7"	C-1586	1.34	1.21	1.08

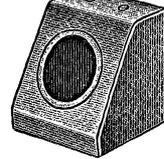
MINIATURE UTILITY CABINETS WITH ATTACHED CHASSIS



Sturdily-made, unusually compact, steel utility cabinets with a built-in chassis attached to the front panel. Excellent for construction of equipment using miniature tubes or transistors. Especially suitable for standing alone, frequency meters, small transistorized receivers, code practice oscillators, decade boxes, crystal sets, and many other types of small, self-contained units. Removable front and rear panels fastened with self-tapping screws permit easy access to components and provide maximum layout flexibility. Built-in chassis is securely fastened in place. Panels fit snugly against flanges of case to assure low RF leakage and protect components from dust. Black-wrinkle enamel finish.

Stock No.	Mfr's Type	Cabinet H.W.D.	Chassis H.W.D.	Wt., Lbs.	NET EACH		
					1-49	50-99	100-149
80 P 326	C-1793	4x4x2"	1x3 1/4 x 1 3/4"	3/4	1.31	1.19	1.05
80 P 327	C-1794	4x5x3"	1x4 1/8 x 2 3/4"	1	1.45	1.30	1.16
80 P 328	C-1795	5x4x3"	1 1/4 x 3 1/2 x 2 3/8"	1	1.59	1.43	1.27
80 P 329	C-1796	6x5x4"	1 3/4 x 4 1/8 x 3 3/8"	1 3/4	1.67	1.50	1.33
80 P 330	C-1797	5x6x4"	1 1/4 x 5 1/8 x 3 3/8"	1 3/4	1.68	1.50	1.33
80 P 331	C-1798	6x6x6"	1 3/4 x 4 1/8 x 3 3/8"	2 1/4	2.13	1.91	1.71

UNIVERSAL METER CASES



Sloping front meter case for use with either 2" or 3" meters. Unit is supplied with front panel cut for a 2" meter. An easily removable knockout ring enlarges the hole to accommodate a 3" meter. Ideal as a housing for an "S" meter, or any of numerous small pieces of test equipment. Has one-piece back and bottom attached with 2 self-tapping screws. Top has two 3/4" knockouts for terminal posts or feed-through insulators. Available in steel or aluminum; both have gray hammettone finish. Size, 4 1/4 x 4 1/4".

Stock No.	Mfr's Type	Material	Wt. Lbs.	NET EACH		
				1-49	50-99	100-149
88 P 541	CM 1935	Steel	1	1.47	1.32	1.18
88 P 542	CMA 1936	Aluminum	3/4	1.71	1.54	1.37

METAL UTILITY CABINETS

menters, and builders. Excellent for housing receivers, monitors, VFO's, test equipment, frequency meters, transmitters, etc. Well adapted for shielding of high gain pre-amplifiers. Rugged construction, and other special circuits. Steel cabinets in black wrinkle or gray hammettone finish; aluminum units in etched aluminum or gray hammettone finish.

Size H.W.D.	Etched Aluminum	Mfr's Type	Wt. Lbs.	NET EACH		
				1-49, EA.	50-99, EA.	100-149, EA.
4x4x2"	88 P 543	AU-1083	3/4	1.26	1.14	1.01
4x5x3"	88 P 544	AU-1028	3/4	1.34	1.21	1.08
6x5x4"	88 P 545	AU-1029	3/4	1.47	1.32	1.18
6x6x6"	88 P 546	AU-1039	3/4	2.13	1.91	1.71
9x6x5"	88 P 547	AU-1040	1	2.46	2.21	1.97

Size, H.W.D.	Gray Hammettone	Mfr's Type	Wt. Lbs.	NET EACH		
				1-49, EA.	50-99, EA.	100-149, EA.
4x4x2"	88 P 548	AU-1083HT	3/4	1.47	1.32	1.18
4x5x3"	88 P 549	AU-1028HT	3/4	1.63	1.47	1.31
6x5x4"	88 P 550	AU-1029HT	3/4	1.80	1.63	1.44
6x6x6"	88 P 551	AU-1039HT	3/4	2.37	2.14	1.90
9x6x5"	88 P 552	AU-1040HT	1	2.78	2.51	2.22

DELUXE CABINET RACKS

entire width of the cabinet. Models CR-1727, CR-1728, CR-1743, CR-1744 and CR-1745 have back doors with snap locks. The remainder have welded back panels. All panel mountings are drilled for standard EIA notched panels. Supplied with panel mounting screws. Units are 14 3/4" in depth and 22" wide. Finish is in black or gray wrinkle or gray hammettone.

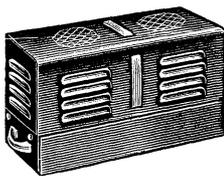
Bud Foundation Cabinets

STREAMLINED FOUNDATIONS

Deluxe foundation units for use where an especially neat, pleasing appearance is required. Ideal for all types of electronic equipment. Feature modern styling and rigid construction.

Each unit consists of a removable top cover mounted on a chassis. Foundation covers are designed with lowered sides and perforated tops to provide proper ventilation and attractive styling.

Strong aluminum handles are solidly fitted to each end of chassis to allow safe, convenient movement. All chassis are 3" high Streamlined units are available in either black wrinkle or gray wrinkle enamel finish, with complementary chrome trim.



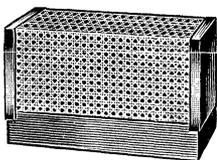
Size H.W.D.	Mfr's Type	Black Wrinkle	Gray Wrinkle	Wt., Lbs.	NET EACH		
					1-24	25-49	50-99
9x10 $\frac{1}{2}$ x5 $\frac{1}{2}$	CA1750	80 PX 493	80 PX 497	4 $\frac{3}{4}$	6.62	5.96	5.30
9x12 $\frac{1}{2}$ x7 $\frac{1}{2}$	CA1751	80 PX 494	80 PX 498	5	7.86	7.08	6.29
9x17 $\frac{1}{2}$ x7 $\frac{1}{2}$	CA1752	80 PX 495	80 PX 499	8	8.35	7.52	6.68
9x17 $\frac{1}{2}$ x10 $\frac{1}{2}$	CA1753	80 PX 496	80 PX 496	9	9.08	8.17	7.27

STANDARD AMPLIFIER FOUNDATIONS

Standard amplifier foundations. Ideal units for most amplifier requirements. Foundations consist of regular chassis with ruggedly constructed metal covers.

Solid pieces are used on ends of each cover to provide firm bracing and allow a snug fit to chassis. Entire side and top area between ends is enclosed by heavy-gauge metal screening; will provide excellent ventilation and proper protection of tubes and related components. Extreme regularity of pattern and long clean lines provide a neat, functional appearance.

Smooth, easy-grip metal handles are attached to the chassis for increased portability. Types CA-699, CA-1125, and CA-1126 have 2 $\frac{1}{2}$ " high chassis; Type CA-1128 has a 3" high chassis. All standard amplifier foundations are available in black wrinkle finish only.



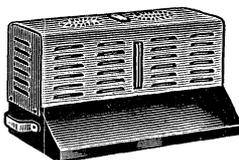
Stock No.	Mfr's Type	Size H.W.D.	Wt., Lbs.	NET EACH		
				1-24	25-49	50-99
80 PX 697	CA-699	8 $\frac{3}{4}$ x9 $\frac{3}{4}$ x5 $\frac{1}{2}$ "	3	5.50	4.95	4.40
80 PX 698	CA-1125	8 $\frac{3}{4}$ x13 $\frac{1}{2}$ x5 $\frac{1}{2}$ "	4 $\frac{3}{4}$	6.30	5.67	5.04
80 PX 699	CA-1126	8 $\frac{3}{4}$ x17 $\frac{1}{2}$ x7 $\frac{1}{2}$ "	6	7.11	6.40	5.69
80 PX 656	CA-1128	8 $\frac{3}{4}$ x12 $\frac{1}{2}$ x10 $\frac{1}{2}$ "	7	7.37	6.63	5.90

SLOPING CHASSIS AMPLIFIER FOUNDATIONS

These high-quality, sloping chassis amplifier foundations combine attractive design with rugged construction. The combination of deluxe chrome-trimmed top cover and sloping chassis gives appearance of commercial deluxe units costing far more.

Each foundation consists of a 4" sloping front chassis on which is mounted a removable top cover; sloping front provides ample space for mounting of controls or instruments.

Ventilators on front panel and louvers on sides allow circulation of air for dissipation of heat. Top cover has gray wrinkle finish with chrome trim; chassis has contrasting black wrinkle finish. With handles for easy, convenient carrying. Overall height, 9 $\frac{1}{2}$ ". Cover, 6" high. Base, 3 $\frac{1}{2}$ " high. Dimensions given below are: TWC—top depth by chassis width by chassis depth.



Stock No.	Mfr's Type	Size, TWC	Wt., Lbs.	NET EACH		
				1-24	25-49	50-99
88 P 585	CA-1980	5x10x8"	6	8.51	7.65	6.80
88 P 586	CA-1981	6x10x10"	6	9.16	8.25	7.33
88 P 587	CA-1982	7x17x10"	8	10.48	9.48	8.48
88 P 588	CA-1983	10x17x13"	10	10.97	9.87	8.77

MINIATURE AMPLIFIER FOUNDATION

Type CA-1754. An extremely compact, sturdily built amplifier foundation. Designed expressly to meet the requirements of builders employing miniature tubes, transistors, capacitors and other miniaturized components. Excellent for small, portable-type P.A. amplifiers, recording preamplifiers, etc. Chassis, which is an integral part of the unit, is only 2" high, 7" wide, and 5" deep. With foundation cover fastened in place, entire unit stands only 6" high! All-steel construction.

Removable cover includes a carrying handle for comfortable hand grip and convenient carrying. Cover is heavily perforated to allow sufficient circulation of air.

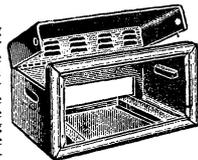
Foundation cover is securely fastened to the chassis sides by means of 4 self-tapping screws. Has durable, attractive, black wrinkle enameled finish. Shpg. wt., 2 lbs.

86 P 214. 1-24, NET EACH.....3.92
25-49, EACH...3.53 50-99, EACH....3.14



"PRESTIGE" STEEL CABINETS

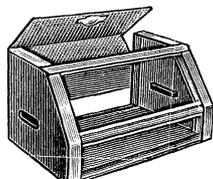
Stock cabinets of advanced design for housing highest quality instruments. Hinged cover swings back completely. Entire cover may be removed. Grommeted finger holes are provided for easy lifting. Cover snaps tightly closed by means of pressure fasteners. Cabinet can be safely carried by use of two recessed handle slots. Each cabinet includes two supporting channels which can be moved to accommodate chassis of different widths or mounting platforms. Height of channels permits flow of cooling air and provides easy removal of cabinet contents through front. Built of standard size relay rack panels. Built of 16-gauge steel. Has rubber feet. Finished in gray hammertone. Width: 21 $\frac{1}{2}$ "; Depth, 14 $\frac{1}{2}$ ". Clear inside depth, 13 $\frac{1}{8}$ ". Rear opening, 18x3". Cover opening, 21 $\frac{1}{2}$ x12 $\frac{1}{4}$ ". Covers: *solid; †perforated.



Stock No.	Mfr's Type	Height	Panel Space	Wt., Lbs.	NET EACH		
					1-14	15-24	25-34
86 PU 644	C-1440*	9 $\frac{1}{2}$ "	7"	2	27.66	24.89	22.13
86 PU 645	C-1442*	11 $\frac{1}{4}$ "	8 $\frac{3}{4}$ "	23	29.46	26.51	23.57
86 PU 647	C-1550†	13"	10 $\frac{1}{2}$ "	25	32.16	28.95	25.73
86 PU 648	C-1551†	9 $\frac{1}{2}$ "	7"	20	29.95	26.95	23.96
86 PU 649	C-1552†	11 $\frac{1}{4}$ "	8 $\frac{3}{4}$ "	22	32.08	28.87	25.66
		13"	10 $\frac{1}{2}$ "	24	34.86	31.37	27.90

"PRESTIGE" SLOPING PANEL CABINETS

Distinctively styled sloping panel cabinets, expertly engineered to provide custom housings for top-quality apparatus. Deluxe features include: swept-back top panel construction for ease of viewing; removable panel trim bar for quick and easy chassis installation; recessed handle slots for convenient carrying; ventilated top for air circulation; rear opening for ready access to cables or controls. Ruggedly built cover can be secured to prevent tampering with contents. Uses standard 19" relay rack panels. Gray hammertone finish. Rear opening, 2 $\frac{1}{2}$ x11 $\frac{1}{2}$ ". Panel recess, 1 $\frac{1}{4}$ ". Top depth, 9". Overall width, 22". All cabinets listed have 3 $\frac{1}{2}$ " vertical panel space. Height and depth shown are overall measurements.



Stock No.	Mfr's Type	HXD	Panel Space	Wt., Lbs.	NET EACH		
					1-14	15-24	25-34
88 PU 573	C-1555	11 $\frac{1}{8}$ x14 $\frac{1}{2}$ "	7"	22	35.28	31.75	28.22
88 PU 574	C-1556	13 $\frac{1}{8}$ x16 $\frac{1}{2}$ "	8 $\frac{3}{4}$ "	25	37.88	34.08	30.30
88 PU 575	C-1557	14 $\frac{1}{4}$ x18 $\frac{1}{2}$ "	10 $\frac{1}{2}$ "	28	40.62	36.65	32.50

SLOPING PANEL CABINETS

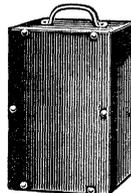
Very attractive, professionally styled, sloping panel steel cabinets. Feature smooth-action hinged top for easy access to tubes and other top-of-chassis components. Removable front panel permits easy attachment of chassis. Excellent for amplifiers, oscillators, test equipment, power supplies, etc. Designed to fit following sized chassis: Type C-1584, 7x6x2"; Type C-1585, 7x8x2"; Type 1586, 7x10x2"; Type C-1587, 7x12x2"; Type C-1588, 7x9x2"; Type C-1892, 8x12x2 $\frac{1}{2}$ "; Type C-1893, 10x17x3"; Type C-1894, 7x13x2"; Type C-1896, 7x17x3". Rigid construction assures proper support and protection for components. Available in choice of handsome black wrinkle enamel or gray hammertone finish.



Size H.W.D.	Mfr's Type	Stock No. Black	Stock No. Gray	Wt., Lbs.	NET EACH		
					1-24	25-49	50-99
6 $\frac{1}{2}$ x7 $\frac{1}{4}$ x7 $\frac{1}{2}$ "	C-1584	86 P 900	88 P 576	3	3.23	2.81	2.59
6 $\frac{1}{2}$ x9 $\frac{1}{4}$ x7 $\frac{1}{2}$ "	C-1585	86 P 901	88 P 577	3 $\frac{1}{2}$	3.67	3.31	2.94
6 $\frac{1}{2}$ x11 $\frac{1}{4}$ x7 $\frac{1}{2}$ "	C-1586	86 P 902	88 P 578	4	4.25	3.73	3.40
8x13 $\frac{1}{4}$ x8 $\frac{1}{2}$ "	C-1892	86 PX 903	88 PX 581	5 $\frac{1}{4}$	5.48	4.93	4.38
10x18 $\frac{1}{4}$ x10 $\frac{1}{2}$ "	C-1893	86 PX 904	88 PX 582	9	7.69	6.93	6.15
8x8 $\frac{1}{2}$ x8"	C-1587	86 P 968	88 P 579	3 $\frac{1}{4}$	4.42	3.98	3.54
8x10 $\frac{1}{2}$ x8"	C-1588	86 P 968	88 P 580	3 $\frac{1}{2}$	4.91	4.42	3.93
8x11 $\frac{1}{2}$ x8"	C-1589	86 P 970	88 P 583	4 $\frac{1}{2}$	5.23	4.71	4.18
9x18 $\frac{1}{2}$ x8 $\frac{1}{2}$ "	C-1896	86 PX 971	88 PX 584	7 $\frac{1}{2}$	7.53	6.77	6.02

ALUMINUM AND STEEL CARRYING CASES

Top-quality metal carrying cases offered in a wide selection of sizes to accommodate numerous types of electronic equipment. Ideal housings for portable transceivers, test instruments, power supplies, radio-control units, field strength meters, phono oscillators, etc. Top-mounted carrying handle provides convenient portability. Ruggedly constructed to withstand hard usage. Front and back panels mount with self-tapping screws. Panels are easily removable to provide access to interior; can be used for mounting components such as meters, relays, transformers, power resistors, etc. Available in either welded steel for maximum strength, or in aluminum for light weight. Steel units in choice of black wrinkle or gray hammertone finish; aluminum units in choice of etched or gray hammertone finish.



PORTABLE STEEL CASES

Size H.W.D.	Mfr's Type	Lbs.	Stock No. Black	Stock No. Gray	NET EACH		
					1-24	25-49	50-99
6x9x5"	CC-1095	3 $\frac{1}{4}$	80 P 798	80 P 813	2.95	2.66	2.36
6x9x5"	CC-1091	3 $\frac{1}{4}$	80 P 799	80 P 814	2.95	2.66	2.36
12x7x6"	CC-1096	4	80 PX 808	80 PX 816	4.10	3.68	3.27
7x12x6"	CC-1092	4	80 PX 809	80 PX 817	4.10	3.68	3.27
15x7 $\frac{3}{4}$ x7"	CC-1097	5	80 PX 810	80 PX 818	4.59	4.13	3.67
10x10x8"	CC-1100	5	80 PX 811	80 PX 819	4.74	4.27	3.79
9x15x7"	CC-1093	5	80 PX 812	80 PX 848	5.73	5.16	4.59

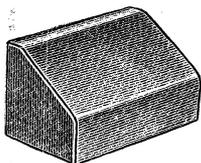
ALUMINUM PORTABLE CASES

Size H.W.D.	Mfr's Type	Wt., Lbs.	Stock No. Etched	NET EACH			Stock No. Gray	NET EACH		
				1-24	25-49	50-99		1-24	25-49	50-99
9x6x5"	ACC-2095	2	88 P 567	3.03	2.72	2.42	88 P 571	3.44	3.10	2.75
6x9x5"	ACC-2091	2	88 P 565	3.03	2.72	2.42	88 P 569	3.44	3.10	2.75
12x7x6"	ACC-2096	4	88 P 568	4.41	3.97	3.57	88 P 572	4.99	4.49	3.99
7x12x6"	ACC-2092	2	88 P 566	4.41	3.97	3.57	88 P 570	4.99	4.49	3.99

Bud Cabinets & Chassis—Builders' Supplies

BUD CABINETS AND CHASSIS

NEW UNIVERSAL SLOPING-PANEL CABINETS



Versatile, streamlined sloping-cabinets available in steel or aluminum. Feature one-piece detachable back and bottom fastened to body with self-tapping screws. Allow easy service and replacement of components. Fully enclosed to exclude dust and moisture. Easily accommodate most small chassis. Height of all units is 4", depth 4 1/4". All cabinets have a durable gray hammertone finish.

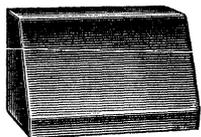
STEEL

Stock No.	Mfr's Type	Width	Wt., Lbs.	NET EACH		
				1-49	50-99	100-149
88 P 642	C-1606	4"	3/4	1.42	1.27	1.14
88 P 643	C-1607	5"	3/4	1.52	1.36	1.22
88 P 644	C-1608	6"	1 1/8	1.62	1.45	1.29
88 P 645	C-1609	7"	1 1/8	1.86	1.68	1.49

ALUMINUM

88 P 646	AC-1610	4"	1/2	1.65	1.48	1.31
88 P 647	AC-1611	5"	1/2	1.71	1.54	1.37
88 P 648	AC-1612	6"	3/4	1.86	1.68	1.49
88 P 649	AC-1613	7"	3/4	2.06	1.85	1.65

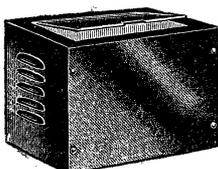
SLOPING-PANEL UTILITY CABINETS



Sloping-panel cabinets featuring a clean, modern design. Recommended for installations that require an opening in the bottom of the enclosure, rather than in the back. Typically used in microphone mixers, as control panels, etc. Adequate space is provided to allow proper ventilation when used with most small chassis. Height of all units is 4 1/4", depth 4". All cabinets are finished in durable black wrinkle enamel.

Stock No.	Mfr's Type	Width	Wt., Lbs.	NET EACH		
				1-49	50-99	100-149
80 P 718	C-1578	4"	3/4	1.20	1.08	.96
80 P 719	C-1579	5"	3/4	1.86	1.23	1.10
80 P 796	C-1580	6"	1	1.44	1.29	1.16
80 P 797	C-1581	7"	1	1.51	1.36	1.21

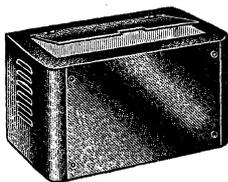
INSTRUMENT AND RECEIVER CABINETS



Ruggedly constructed, moderately priced steel cabinets. Particularly suitable for housing amateur receivers, transmitters, signal generators, etc. Each unit has recessed hinged cover for easy access. Front panel is held securely in place with self-tapping screws. Panel extends full width of cabinet—provides maximum space for installation of controls. Louvers on each side of cabinet assure ample ventilation of circuitry. Attractive black wrinkle enamel finish.

Stock No.	Mfr's Type	Size H.W.D.	Wt., Lbs.	NET EACH		
				1-24	25-49	50-99
80 P 378	C-973	7x8x8"	5	4.10	3.68	3.27
80 P 379	C-993	7x10x8"	5 1/2	4.74	4.27	3.79
80 PX 380	C-994	7x12x8"	5 1/2	4.91	4.42	3.93
80 PX 381	C-995	7x14x8"	6	5.15	4.64	4.13
80 PX 382	C-1190	8x16x8"	7	7.45	6.70	5.96
80 PX 383	C-975	9x15x11"	8	9.01	8.10	7.20
80 PX 384	C-999	12x18x12"	15	9.72	8.75	7.78

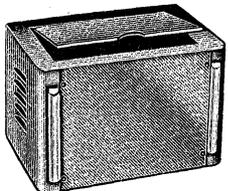
STREAMLINED CABINETS



Handsome, sturdily constructed cabinets with rounded corners. Recessed hinged top, plus 3 1/2" opening in rear permit easy access to sockets, terminals, etc. Front panel fastens with self-tapping screws. Louvers provide ample ventilation. Excellent for amateur transmitters, test equipment, etc. Available in a choice of sizes to accommodate a variety of equipment. Durable black wrinkle enamel finish.

Stock No.	Mfr's Type	Size H.W.D.	Wt., Lbs.	NET EACH		
				1-24	25-49	50-99
80 PX 314	C-1789	8x10 1/2 x 8 1/4"	5 3/4	4.34	3.91	3.47
80 PX 315	C-1746	8x12 1/2 x 8 1/4"	6	5.32	4.79	4.25
80 PX 316	C-1747	8x14 1/2 x 8 1/4"	6 1/2	5.81	5.23	4.68
80 PX 317	C-1748	8x16 1/2 x 8 1/4"	7	6.06	5.43	4.84
80 PX 318	C-1790	8x18 1/2 x 8 1/4"	7 3/4	6.62	5.96	5.30
80 PX 319	C-1731	12x20 5/8 x 12"	15	12.02	10.82	9.62

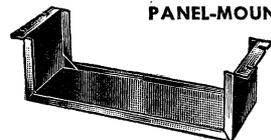
DELUXE STREAMLINED CABINETS



Bud's deluxe equipment cabinets feature striking gray-wrinkle finish and chrome stripping. Include hinged door, convertible opening at rear for easy access to terminals, as well as all of the other fine constructional features offered in the cabinets listed above. Give a handsome, factory-built look to any electronic equipment—excellent for amateur transmitters and receivers, laboratory equipment, and other units where appearance and rugged, functional design are of prime importance.

Stock No.	Mfr's Type	Size H.W.D.	Wt., Lbs.	NET EACH		
				1-24	25-49	50-99
80 PX 320	C-1791	8x10 1/2 x 8 1/4"	5 3/4	6.38	5.74	5.11
80 PX 321	C-1781	8x12 1/2 x 8 1/4"	6	6.51	5.89	5.23
80 PX 322	C-1782	8x14 1/2 x 8 1/4"	6 1/2	6.87	6.18	5.50
80 PX 323	C-1783	8x16 1/2 x 8 1/4"	7	7.07	6.63	5.70
80 PX 324	C-1792	8x18 1/2 x 8 1/4"	7 3/4	7.32	6.67	6.41
80 PX 325	C-1731	12x20 5/8 x 12"	15	14.65	13.19	11.72

PANEL-MOUNTING CHASSIS

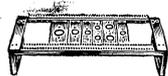


Open-side chassis for standard 19" mounting. .062" aluminum with reinforced corners. 1" flange on ends, with elongated holes for mounting. Front flange has std. panel notching. All other edges have 5/8" flanges. All models 17" wide, excluding flange, and 5 3/4" deep.

Stock No.	Mfr's Type	Height	Wt., Lbs.	NET EACH		
				1-24	25-49	50-99
86 PX 185	CB-1370	1 3/8"	1	2.25	2.03	1.80
86 PX 186	CB-1371	3 1/8"	1	2.54	2.28	2.03
86 PX 187	CB-1372	5 1/8"	1 1/2	2.78	2.51	2.22
86 PX 188	CB-1373	7"	2 1/4	3.19	2.87	2.56
86 PX 189	CB-1374	8 3/8"	2 1/2	3.68	3.31	2.95
86 PX 190	CB-1375	10 1/8"	3	4.34	3.91	3.47
86 PX 191	CB-1376	12 1/4"	3 1/2	4.74	4.27	3.79
86 PX 192	CB-1377	14 1/4"	3 3/4	5.23	4.71	4.18

POPULAR BUILDERS' SUPPLIES

"SPECIFIC" C-100 CHASSIS



Versatile chassis for setting up temporary experimental circuits. Has holes for plates listed below. With 5 tie-point strips; 4 insulated, 1 grounded. Cadmium-plated 20-gauge steel. Size: 5" high, 16 1/2" wide, 3 1/4" deep. Shpg. wt., 1 1/4 lbs.

86 PX 680. NET.....4.85

MOUNTING PLATES. Easily installed on or removed from Speed Chassis. Pre-punched for sockets, etc. 4 3/8" deep. Av. shpg. wt., 2 oz.

Stock No.	Description	Width	NET
86 P 681	Single 7-pin min. socket	1 1/8"	20c
86 P 682	Double 7-pin min. socket	1 1/8"	24c
86 P 692	Single 7-pin Vector socket	1 1/8"	34c
86 P 693	Double 7-pin Vector socket	1 1/8"	39c
86 P 694	Triple 7-pin Vector socket	1 1/8"	44c
86 P 683	Single 9-pin min. socket	1 1/8"	23c
86 P 684	Double 9-pin min. socket	1 1/8"	27c
86 P 695	Single 9-pin Vector socket	1 1/8"	34c
86 P 696	Double 9-pin Vector socket	1 1/8"	39c
86 P 697	Triple 9-pin Vector socket	1 1/8"	44c
86 P 685	Single octal socket 1 1/2" ctrs.	2 1/8"	25c
86 P 698	Double octal socket 1 1/2" ctrs.	2 1/8"	30c
86 P 686	Single octal socket 1 3/8" ctrs.	2 1/8"	25c
86 P 699	Double octal socket 1 3/8" ctrs.	2 1/8"	30c
86 P 687	Univ. transformer (2 required)	1 1/8"	54c pr.
86 P 688	Volume control (mounts 2)	1 1/8"	34c
86 P 689	Blank	1 1/8"	15c
86 P 690	Blank	1 1/8"	15c
86 P 691	Blank	2 1/8"	15c

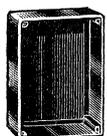
DUMONT CIRCUIT BREADBOARD



Type K-100. Time saver for experimenters. Consists of 3x4x12" steel frame with ends punched for controls, 16 phenolic 4x2" sub-chassis, two 9-terminal strips, and 20 double-ended terminals. Sub-chassis include 4 single and 4 double-hole types for 7 or 9-pin miniature sockets, 4 single-hole types for octal sockets and 4 chassis with random holes. Shpg. wt., 2 lbs.

86 P 794. NET.....12.25

PLASTIC CASES AND PANELS



Molded black plastic cases and panels designed for test instrument mounting. Sturdily constructed to protect meter and components. Cases have recessed corner bosses for flush mounting of panels. Case walls and panels are 1/4" thick. Av. shpg. wt., cases: 1 1/2 lbs.; panels: 1 lb.

CASES

Stock No.	Size	1-9, EACH	10 or More, EACH
86 P 286	6 1/4 x 3 3/4 x 2"	.88	.77
86 P 287	6 1/8 x 5 3/8 x 2 1/8"	1.28	1.13

MATCHING PANELS

86 P 288	6x3 1/2"	.55	.48
86 P 289	6 1/2 x 3"	.73	.65

"UNICHASSIS" EXPERIMENTAL CHASSIS



All-metal "breadboard-type" chassis for rapid assembly of circuits. Deluxe features make this perfect for research use. Consists of heavy-gauge, double-deck, aluminum chassis, 22 specially designed leads and 91 assorted terminations.

Chassis is pre-punched for potentiometers and tube sockets on the upper deck and has a large number of bolt holes for transformers, chokes, etc. on the lower deck. Upper deck mounts 8 octal, 4 miniature 7-pin and 4 miniature 9-pin sockets. Includes 4 tie-point strips and 4 heavy, chassis-length bus bars, grooved for easy soldering.

Leads are of 18-gauge rubber-covered flexible wire with socket-like terminals at each end. The terminals, only slightly larger in diameter than the wire, provide an almost zero-resistance connection to any of the 91 terminations, the bus bars, and some of the tie points. Termination assortment includes test prods, banana plugs, alligator clips, grid caps, X-connectors and soldering stubs. The latter can be soldered to components to permit the insertion of test instruments without cutting the leads.

Chassis can be bolted end-to-end for more complex constructions. 11x7 1/2 x 8 1/4". Shpg. wt., 3 1/2 lbs.

86 PX 575. NET.....20.50

Build the Best— build ALLIED knight-kits

the finest electronic equipment in money-saving kit form



Produced by Allied, these famous kits offer every desirable feature that 38 years of experience can provide. Every kit embodies creative engineering of the highest order—professional design and styling—and thorough laboratory testing. All with one purpose in mind—to bring you outstanding performance and value—and to provide you with the sense of accomplishment and satisfaction that comes with the building of a fine instrument.



HERE'S WHY IT'S SO SATISFYING TO BUILD YOUR OWN **knight-kit**



knight-kits COME TO YOU IN PERFECT ORDER

Open the package—note the resistors, neatly mounted on cards with identifying symbols; capacitors, plainly marked values on these too; printed circuit boards, coated for easy soldering and marked for error-proof parts identification; even wires are pre-cut to correct length!



YOU GET NEWEST FEATURES AND PREMIUM-QUALITY PARTS

Printed circuit boards—exclusive printed circuit switches—high-quality, brand-new parts—hardware packaged in clear plastic bags—heavily cadmium-plated chassis with all holes pre-punched—strong steel cases and top styling. All this and more, in Knight-Kits.



YOU GET EASIEST-TO-FOLLOW ASSEMBLY INSTRUCTIONS

Clearly written instruction manuals highlight every step of the way. Proper mounting of each part, what leads to solder, etc. Nothing is left to guesswork—as you complete each step, you check it off before going on to the next step. It's like having a good instructor at your side.



NO TECHNICAL SKILL NEEDED

No technical experience is required to assemble any Knight-Kit, and you don't have to know how to read schematic symbols. Every kit contains giant-size pictorial diagrams that can be tacked over your work table for ready reference.



YOU SAVE UP TO HALF

When you choose a Knight-Kit, you save because Allied's volume buying power makes it possible to present these kits at lowest cost—and you save because you do the assembling yourself. Knight-Kits are easy to buy—easy to build—easy to use!



YOU'LL ENJOY BUILDING AND OWNING A knight-kit

Nothing compares to the feeling of accomplishment and personal pride you'll derive from building a Knight-Kit—and you'll get performance that equals or surpasses factory-wired units costing much more.

NEW!



here's why you get

MORE FOR YOUR MONEY in knight-kits

EXCITING knight-kits YOU SHOULDN'T MISS

NEW

Page 244
Stereo Preamplifier



NEW

Page 245
60-Watt Stereo Amplifier



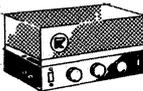
NEW

Page 243
Stereo Control



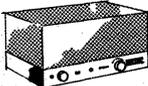
NEW

Page 246
12-Watt Hi-Fi Amplifier



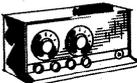
NEW

Page 251
25-Watt Basic Amplifier



NEW

Page 253
4-Band Span Master



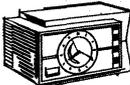
NEW

Page 256
Printed Circuit Ranger



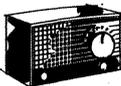
NEW

Page 257
Clock-Radio



NEW

Page 256
Ranger III Radio



NEW

Page 257
Radio-Intercom



NEW

Page 262
12-in-1 Lab Kit



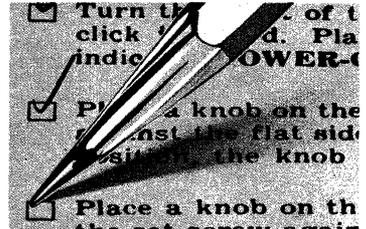
NEW

Page 266
Tube Checker



EASIEST TO ASSEMBLE—BY FAR

No technical experience is required to assemble Knight-Kit equipment. Exceptionally clear step-by-step instructions, with giant-size picture diagrams, spotlight every step of assembly. As each step is completed, you check it off. You know just what you've done and exactly what comes next—there's no guesswork.



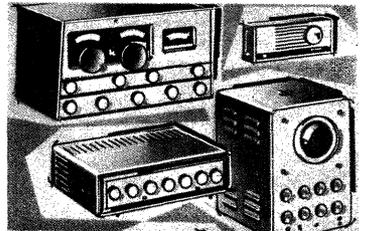
ENGINEERED FOR SUPERIORITY

Knight-Kits are expertly engineered by a staff of specialists with many years of highly successful kit-development experience. Employing the finest research equipment available, this staff of experts design and develop units that are unsurpassed in quality and workmanship—your assurance of performance plus!



A KNIGHT-KIT FOR EVERY NEED

See the following pages for Knight-Kits to suit every need or interest—test equipment for service-shop, factory and laboratory—hobby kits for beginners and experimenters—amateur radio—and high-fidelity. Whatever you choose, you can *save up to half of the cost* of equivalent factory-built units with Knight-Kits.



knight-kit MONEY-BACK GUARANTEE

Your purchase price is refunded in full if your Knight-Kit does not meet our published specifications for performance. These famous kits incorporate every desirable feature that 38 years of experience in kit design can provide. When you build a Knight-Kit, you can always be sure of unexcelled quality and outstanding value.

EASY PAYMENT PLAN TO FIT YOUR BUDGET

Knight-Kit electronic kits and accessory equipment may be purchased under our Easy Payment Plan—the most liberal in electronics. Your order need total only \$20.00 or more, and a down payment of only 10% is required—you then complete the balance in small easy-on-the-budget monthly payments. Carrying charges are small and there's no "red tape". For Easy Pay Details, see page 444.

SCHOOL INQUIRIES INVITED

Schools everywhere use Knight-Kits for easier, more effective electronics instruction. Knight-Kits maintain an exceptionally high level of class interest and make the job of teaching easier. Students learn more about electronics when they have the opportunity to build a working project themselves—give every student a chance to produce something he can point to with pride. Among our most popular kits in the educational field are the world-famous Knight-Kit "Ranger" III radio and the 12-in-1 electronic lab. Schools are invited to inquire about quantity prices for easy-to-build Knight-Kits. Let us know your requirements—address our Educational Division.



anyone can afford quality hi-fi with easy-to-build knight-kits

YOU CAN SAVE UP TO HALF

Now you can build your own professionally styled high-fidelity equipment at tremendous savings. When you choose Knight-Kits, you save because Allied's huge buying power makes it possible to present these kits at lowest cost—and in addition, you save because you do the assembly yourself.

SO EASY TO ASSEMBLE

Whether you're a beginner, or have years of electronic experience, you will find that it's really fun to build a Knight-Kit. Step-by-step instructions and giant-sized pictorial diagrams tell you when and how to mount each part—it's like having a good instructor at your side.

BEAUTIFUL CUSTOM STYLING

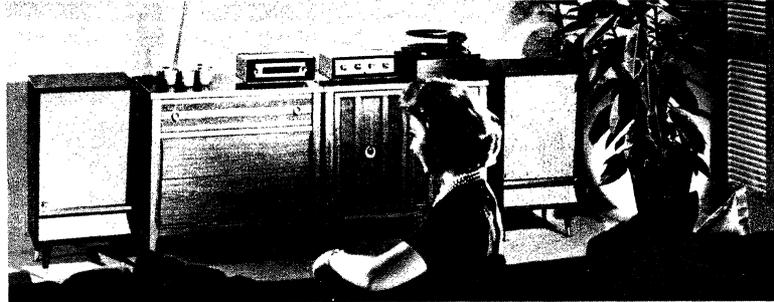


Knight-Kit hi-fi components, as easy to look at as they are to assemble and use, are styled by professional designers to take their place alongside the finest of home furnishings.

EXCLUSIVE PRINTED CIRCUITRY



Knight-Kits incorporate the latest technical advances. Many Knight-Kits feature printed circuitry and exclusive printed-circuit switches. With 90% of the wiring completed, assembly time is reduced to a minimum.



NEW STEREO KITS

Knight-Kit stereo components combine outstanding quality with unsurpassed value to keynote a new era of breathtaking musical reproduction.

YOU CAN ASSEMBLE YOUR OWN HI-FI SYSTEM—SAVE UP TO 50%.

Now, with Knight-Kits, anyone can afford to bring thrilling new musical adventures into his home. Knight-Kits offer a hi-fi music system to fit any budget—a system that's right for you. For hi-fi systems featuring Knight-Kits, see pages 28 through 31.

knight-kits are FIRST with the LATEST—here's proof

STEREO CONTROL KIT

Full centralized stereo control for use with any two amplifiers individually rated up to 20 watts.

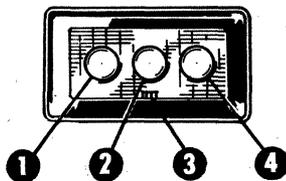
NEW



NOW! complete STEREO versatility at low cost

Enjoy single knob, centralized volume control of your stereo system from any location in your room.

- Superb Styling
- Functions Remotely
- No Amplifier Rewiring
- Universal—Handles Any Two Amplifiers



1. Volume Control
2. Balance Control
3. Phase Reverse
4. Function Selector

Beautifully designed to take its place alongside the finest of stereo high-fidelity systems.

knight-kit Universal Stereo Control Kit

NET \$29.95 Introducing a versatile stereo control kit that provides complete centralized control for any stereo system using amplifiers rated up to 20 watts. Simply connect stereo control unit to terminals of speakers and outputs of amplifiers—no rewiring of amplifiers required. *Functions:* lets you balance speaker system volume; serves as master gain control for adjustment of overall volume; permits playing either stereo channel monaurally through one-half of speaker system or through entire system; provides channel reversal; also includes phase reversal switch to assure optimum stereo performance. *Controls:* Volume; Balance; Selector (Stereo, B-Channel, B-Monaural, Channel Reverse, A-Channel, A-Monaural); Phase Reversal. Negligible line insertion loss makes this an excellent unit for remote placement. Metal case in French gray; front panel is aluminum with ebony trim. With all parts, wire, solder and instructions. 4 1/2 x 7 3/4 x 4". Shpg. wt., 3 1/2 lbs.

83 Y 778. NET..... 9.95

Knight-Kits Have Easy-To-Follow Instructions

knight-kit STEREO KITS SET THE PACE

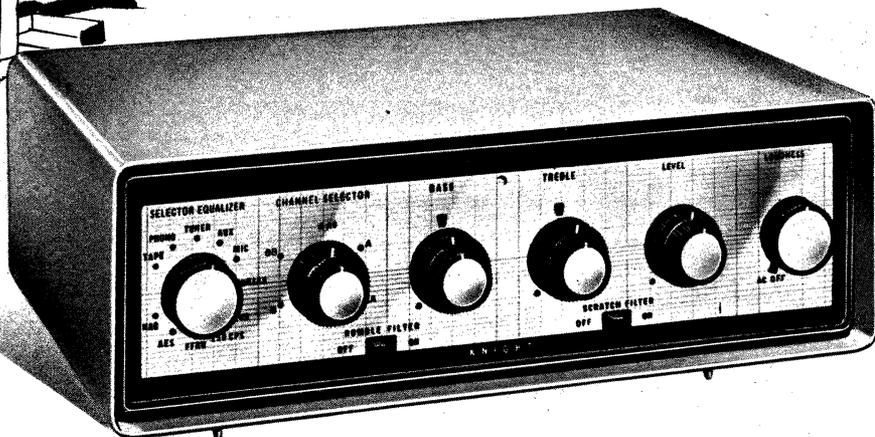
NEW!



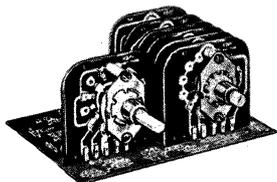
SUPERIOR VERSATILITY. Every control for absolute flexibility is built in to bring out the full majesty of dazzling stereophonic sound. Whatever the source—tape, records or broadcasts—you'll receive the ultimate in response.

OUTSTANDING PERFORMANCE. Unbeatable value in an audio perfectionist's dream come true! Pains-taking design and highest quality components guarantee performance and dependability—comparable to the finest factory-built units.

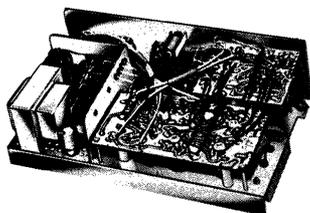
**DELUXE
STEREO
CONTROL
CENTER**



CUSTOM DESIGNED



PRINTED CIRCUIT SWITCHES. A sensational advance in kit engineering! This exclusive Knight-Kit development simplifies construction—eliminates critical switch wiring, one of the major stumbling blocks encountered by the inexperienced kit builder.



PRINTED CIRCUIT BOARDS. Etched copper on a phenolic board—used in Knight-Kits to eliminate errors and assure peak performance. Two printed circuit boards containing wiring for all tubes are used in this Stereo Preamp Control Center—simply mount the parts in place and solder! With 90% of the wiring completed, assembly time is reduced to a minimum.

Sensational Knight-kit Stereo Preamp Control Center Kit

NET
\$62.50
\$6.25 Down

- Concentric Clutch-Type Controls—Permit Individual Channel and Overall Volume and Tone Control
- Separate Inputs for Both Stereo and Monaural
- Six-Position Mode Switch—Superior Versatility
- Special L-C Scratch Filter—Low Hum and Noise

Excitingly new in concept and design, the deluxe Knight-Kit stereo pre-amp is undeniably the finest, most complete preamplifier you can buy in kit form! Truly a masterpiece of engineering skill, this exceptionally versatile unit will amaze you with its superior flexibility. Incorporates every necessary control for complete enjoyment of any stereo or monaural high-fidelity system. Employs printed circuit boards and exclusive printed circuit switches for remarkable ease of assembly.

Superior features include: five pairs of jacks for stereo inputs plus four additional inputs for monaural—permits permanent installation of both stereo and monaural equipment; six positions for record equalization on monaural magnetic phono; RIAA for stereo discs. Special, concentric clutch-type bass, treble, and volume controls—permit individual channel and overall volume and tone control. Versatile mode switch—permits playing stereo; reversing channels; playing one or the other channel only; one or the other input to both outputs. L-C scratch filter (switchable)—provides 10 db/octave attenuation above 3 kc. Extremely low hum and noise—DC on all tube filaments. Operation direct from tape heads. Calibrated potentiometer for exact setting of magnetic cartridge load.

SUPERIOR SPECIFICATIONS. *Frequency Response:* tuner, $\pm \frac{1}{2}$ db, 7-120,000 cps; aux., $\pm \frac{1}{2}$ db, 7-75,000 cps. *Harmonic Distortion:* less than 0.15% at 1 volt output. *Hum Level:* 60 db below 1 v. at high-gain inputs; 80 db below 1 v. at low-gain inputs. *5 Pair Stereo Inputs—figures denote sensitivity in millivolts for 1 v. output:* Tape Head (2.5 mv); Magnetic Phono (2.5 mv); Ceramic Phono (70 mv); Aux. (500 mv); Tuner (150 mv). *4 Monaural Inputs:* G.E., Pickering or ceramic phono; and microphone. *Controls:* Selector-Equalizer (Tape, Phono, Tuner, Aux. Mic, RIAA, EUR, 250 cps FFR, AES, NAB); Channel Selector (Stereo, Stereo Reverse, Channel-A, Channel-B, A-Monaural, B-Monaural); Bass; Treble; Level; Off-On/Loudness; Rumble Filter On-Off (2—R-C types); Scratch Filter On-Off (2—L-C types for sharper cut-off). *Tubes:* 2—12AY7, 4—ECC82/12AU7.

Beautifully styled metal cabinet finished in attractive French gray; front panel is aluminum with ebony trim. Ideal companion-piece for the Knight-Kit 60-watt stereo basic amplifier listed on next page. Supplied complete with all parts, cabinet, tubes, wire and solder and instructions. 4 $\frac{1}{4}$ x 13 x 8". For 110-125 volts, 50-60 cycle AC. Shpg. wt., 17 $\frac{1}{2}$ lbs.

83 YX 776. NET. 62.50

IN PERFORMANCE, ECONOMY, AND STYLING

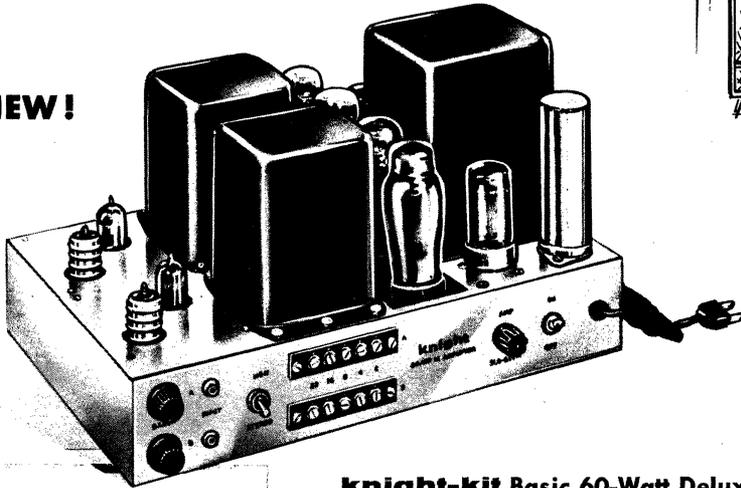
THRILLING PERFORMANCE. Perfectly balanced stereo—or superior monaural high-fidelity—is achieved through a perfect combination of expert design, highest-quality components and superb engineering—your assurance of performance *plus*.

SUPERIOR ENGINEERING. Careful attention to details plus many months of intensive, expert research provide you with a unit that meets or surpasses the engineering standards of factory-wired stereo components costing far more.



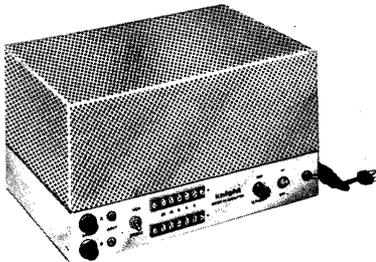
THE PERFECT TOP-VALUE BASIC STEREO HI-FI AMPLIFIER ANYONE CAN BUILD

NEW!



TWO 30-WATT POWER AMPLIFIERS FOR STEREO; 60 WATTS FOR MONAURAL

Here's versatility plus! Use this perfectly balanced "powerhouse" to deliver 30 flawless watts per stereo channel—or enjoy full 60 watts for monaural reproduction. Everything is contained on one compact chassis!



Ruggedly constructed shield cover, finished in two-tone gray, offers a striking contrast to the gleaming chrome chassis of the stereo amplifier. Perforated to permit ample ventilation for top efficiency.

knight-kit Basic 60-Watt Deluxe Stereo Amplifier Kit

NET
\$84.50
\$8.45 Down

- 60-Watt Monaural or Dual 30-Watt Stereo Unit
- Response Flat from 9 to 42,000 Cycles
- Phenomenal 0.08% Distortion at Full 60 Watts
- Special Circuitry Design for Exact Balance

Introducing an exceptional basic amplifier that's truly a triumph of engineering skill—unquestionably in a class by itself! Use it as dual 30-watt channels for dazzling stereo or enjoy it as a powerful 60-watt amplifier for monaural reproduction. Makes an ideal companion-piece for the deluxe stereo preamp described on preceding page.

Features include: special, built-in circuitry for precise balance of gain of each channel for perfect monaural performance—adjustment easily made from outside; static plate current balancing adjustments—separate for each channel; absolute stability even with high capacitive or inductive loads; extremely low distortion; negligible hum and noise; custom-quality transformers; two printed circuit boards; superior hi-fi tubes.

SUPERIOR SPECIFICATIONS. *Frequency Response:* (stereo) ± 0.5 db, 9-42,000 cps at half power; (monaural) ± 0.5 db, 8-42,000 cps at half power. *Harmonic Distortion:* (stereo) 0.15% at 30 watts; (monaural) 0.08% at 60 watts. *Intermodulation Distortion:* (stereo) 0.15% at 30 watts; (monaural) 1.0% at 60 watts. *Hum and Noise:* (stereo) 90 db below 30 watts; (monaural) 95 db below 60 watts. *Speaker Output Impedances:* 4, 8 and 16 ohms for stereo and monaural. *Tube Complement:* 2—EF86/Z729/6267 voltage amplifiers; 2—ECC83/12AX7/7025 driver-inverters; 4—EL37 power outputs; 2—GZ34/5AR4 rectifiers.

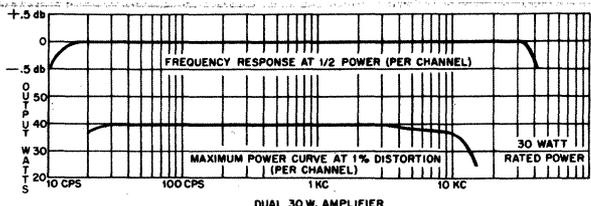
Beautiful black and chrome styling. Size (HWD), 9x14x8 $\frac{1}{4}$ ". Supplied complete with tubes, all parts, wire and solder, hardware and easy-to-follow instructions. Less cover, listed below. For operation from 110-125 volts, 50-60 cycle AC. Shpg. wt., 36 lbs.

83 YU 777. NET..... 84.50

83 YX 779. Metal Cover For Above. Wt., 4 lbs. NET..... 6.50

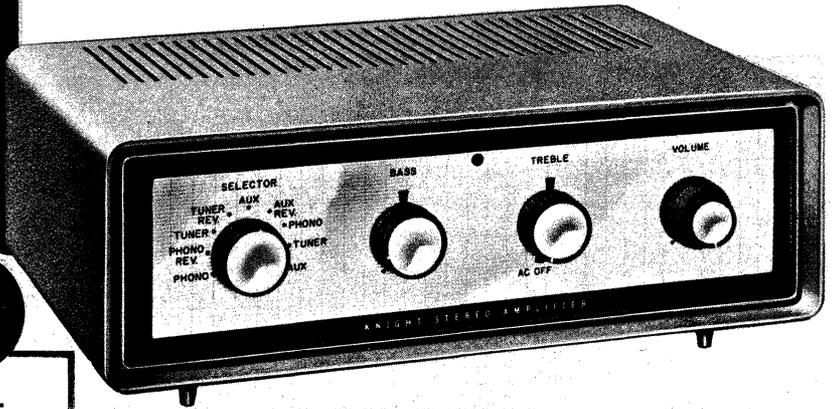
PROOF OF PERFORMANCE

The frequency response and power curves, at right, illustrate the superiority of the Knight-Kit 60-watt stereo amplifier—compare these with other units before you buy. You'll agree Knight-Kits are the finest values available anywhere.



Allied Fully Guarantees the Specifications of All Knight-Kit Units

SAVE ON OUTSTANDING knight-kits



NEW!
**SENSATIONAL
 LOW-COST
 STEREO AMPLIFIER**
 ADVANCED DESIGN

NEW knight-kit 20-Watt Stereo Amplifier

NET
\$44⁵⁰

- Quality Engineered—Economically Priced
- Simplified Point-to-Point Wiring Throughout
- DC On Preamp Tube Filaments to Minimize Hum
- 13 db Negative Feedback for Minimum Distortion

Only \$4.45 Down

Priced within reach of even the lowest hi-fi budget, this new Knight-Kit 20-watt stereo amplifier represents an outstanding achievement in stereophonic engineering. Incorporating the latest advances in stereo circuitry, it rivals factory-wired units costing more than twice as much. Famous Knight-Kit "convenience engineering" assures easy, simplified assembly and saves hours of construction time. The smart, modern styling of this unit will enhance any surroundings.

Featured in the high-quality design of this amplifier is a special concentric, clutch-type level control. This convenient, dual-purpose control provides overall volume adjustment as well as precise regulation of channel balance for peak stereo performance. Greatly simplifies control while providing extra versatility of operation.

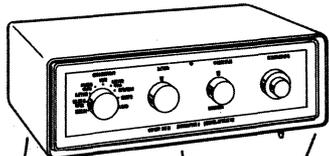
A unique type of selector switch demonstrates the exceptional convenience offered by this fine stereo amplifier kit. Both the input function and the desired type of operation are conveniently selected by a single control. The following positions are provided: Phono, Phono Reverse, Tuner, Tuner Reverse, Aux, Aux Reverse, plus monaural Phono, Tuner, and Aux. No need for extra stereo reversing and stereo-monaural switches—one simplified control handles all operations.

Advanced design, dual-purpose triode-pentode tubes are employed in the push-pull output circuit of each channel. Providing efficient 10-watts-per-channel output and also serving as drivers, these high-quality tubes reduce cost and greatly simplify construction. Tubes designed especially for audio applications are also utilized in the preamplifier stages to assure top-quality high fidelity performance and minimize hum and noise, distortion, and other undesirable effects.

SPECIFICATIONS: *Frequency Response:* $\pm 1\frac{1}{2}$ db, 20-20,000 cps. *Harmonic Distortion:* Less than 1.5% at 10 watts. *Hum and Noise:* Better than 85 db below full output. *Sensitivity (figures denote sensitivity in millivolts for 10 watts output):* Phono (Magnetic Stereo—6 mv; Magnetic Monaural—7.5 mv; Ceramic Stereo—0.4 v.; Ceramic Monaural—0.5 v.); Tuner and Aux (Stereo—1 v.; Monaural—1.25 v.). *Feedback:* 13 db negative feedback with tone controls flat. *Crosstalk Between Channels:* Better than 45 db in all stereo selector positions. *Bass Control:* 10 db boost and attenuation at 35 cps. *Treble Control:* 7 db boost and attenuation at 10,000 cps. *Output Impedances:* 4, 8, 16 ohms on each channel. *Tube Complement:* 4—ECL82, 2—ECC83/12AX7, 1—EZ81/6CA4 rectifier.

Kit is supplied complete with tubes, all parts, wire and solder, and easy-to-follow, step-by-step instructions. Includes giant-size pictorial diagrams. In French gray metal cabinet with legs and contrasting chrome and ebony panel. Dimensions: 5x13 $\frac{1}{4}$ x9". For operation from 105-125 volts, 60 cycle AC. Shpg. wt., 27 lbs.

83 YX 773. NET 44.50



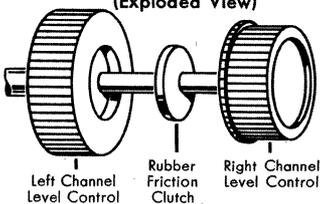
- ¾" Tapered Chrome Legs
- Unique Front Ventilation
- Attractive French Gray Metal Cabinet
- Modern Ebony and Chrome Panel

SINGLE KNOB SELECTOR



VERSATILE SELECTOR SWITCH. Unique design provides a choice of inputs and selection of stereo, stereo reverse, and monaural operation.

CLUTCH-TYPE LEVEL CONTROL (Exploded View)



Dual concentric, clutch-type controls provide individual volume adjustment of each channel or convenient simultaneous adjustment.

EASY-TO-BUILD HI-FI EVERYONE CAN AFFORD



LAST WORD IN
PROFESSIONAL PERFORMANCE

knight-kit 18-Watt Complete Amplifier Kit

NET
\$39⁹⁵

\$4.00 Down

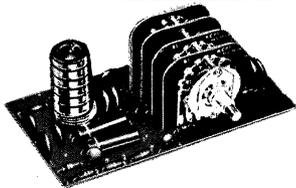
- RCA 6973 High-Fidelity Audio Tubes
- Only 0.5% Distortion at Full 18 Watts Output
- Exclusive Knight-Kit Printed Circuit Switches
- Two Printed Circuit Boards
- Frequency Response, ± 1 db, 20 to 30,000 cps

The famous Knight-Kit 18-watt high-fidelity amplifier kit offers brilliant performance and custom styling at exceptionally low cost. Here is an amplifier designed to bring flawless high-fidelity sound into your home at about half the cost of comparable commercially assembled units—an excellent unit around which a fine home music system can be built. Delivers full 18-watts output at only 0.5% distortion using 6973 high-fidelity audio output tubes—designed by RCA for unparalleled hi-fi sound reproduction. Construction is simplified through the use of a Knight-Kit exclusive printed circuit switch and two printed circuit boards—most of the wiring has already been done for you—assembly is little more than mounting the printed circuit switch and the small parts on the printed circuit board and soldering them in place.

With the world-famous Knight-Kit step-by-step instructions and giant-sized pictorial diagrams, you'll find this top-performing amplifier fun to build—even if you have no previous electronic experience. Highest-quality parts are used—your assurance of dependable service.

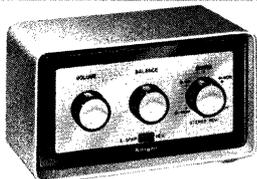
SPECIFICATIONS: *Frequency Response:* ± 1 db, 20 to 30,000 cps at rated output. *Distortion:* Only 0.5% at 18 watts. *Hum & Noise:* Better than 65 db below 18 watts. *Sensitivity* (tape head and magnetic cartridge): 5 mv for 18 watts output. *Inputs:* Microphone; Auxiliary; Tuner; Tape player; Magnetic (GE, Pickering); Ceramic; Tape Head. *Controls:* Selector-Equalizer (Mic, Aux, Tuner, Tape, Magnetic, Ceramic, Tape Head Equalization—RIAA, FFRR, NARTB, AES, RCA, 500 cps, COL); Bass Boost and Attenuate; Treble Boost and Attenuate; Off-On/Volume. *Output Impedance:* 4, 8, or 16 ohms. *Tubes:* 1—ECC83/12AX7 preamplifier-equalizer driver and tone control driver, 1—EF86/Z729 voltage amplifier and phase inverter, 1—ECC83/12AX7 push-pull driver, 2—6973 push-pull power output amplifiers; 1—EZ81 rectifier.

Supplied complete with all parts, wire and solder, tubes and carefully prepared step-by-step instructions. French gray steel cabinet with control panel finished in bright aluminum and ebony. Size, 4 $\frac{1}{4}$ "H (plus $\frac{3}{4}$ " legs) x 13 $\frac{1}{2}$ "W x 8"D. For 110-125 v., 50-60 cycle AC. Shpg. wt., 15 lbs. 83 YX 797. NET..... 39.95



PRINTED CIRCUIT BOARDS AND SWITCHES

Two printed circuit boards contain the wiring for all tubes except the rectifier. Since 90% of the wiring is completed, assembly time is reduced to a minimum. The exclusive printed circuit switch simplifies kit construction—eliminates critical switch wiring, one of the major stumbling blocks encountered by the inexperienced kit builder.

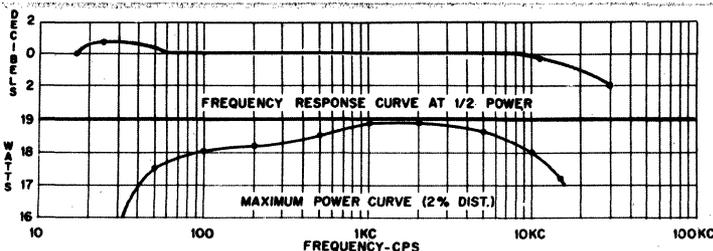


knight-kit Stereo Control

Versatile stereo remote control for use with two Knight-Kit 18-watt amplifier kits. Provides volume, balance and channel control for stereo music systems. See page 243 for details. 4 $\frac{1}{2}$ "x7 $\frac{1}{2}$ "x4". 3 $\frac{1}{2}$ lbs. 83 Y 778. NET..... 9.95

PROOF OF SUPERIORITY

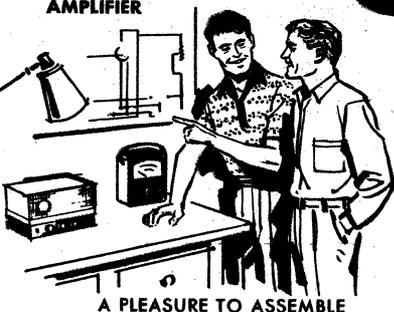
The frequency response and power curves at right graphically illustrate the superiority of the Knight-Kit 18-watt amplifier. Before you buy, compare these curves with other kits or factory-assembled units.



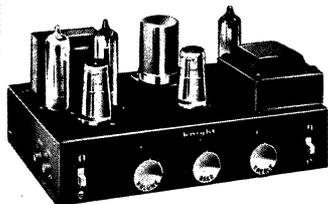
SAVE MOST ON SENSATIONAL knight-kits

NEW!

**LOWEST-COST
TRUE HI-FI
AMPLIFIER**

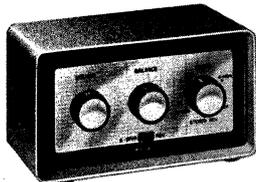


A PLEASURE TO ASSEMBLE



MORE FOR YOUR HI-FI DOLLAR

Never before so much solid value and quality performance at such low cost! A true hi-fi amplifier packed with features for only \$19.95. Delivers outstanding audio at unsurpassable economy. Look at the operating curves and specifications—you'll agree that you're getting the most for your money when you buy a Knight-Kit.



knight-kit Stereo Control

Provides complete, centralized control for stereo operation of a pair of Knight-Kit 12-watt amplifier kits, or one of these and your present amplifier. See page 243 for details. 4 1/2 x 7 1/2 x 4". 3 1/2 lbs. 83 Y 778. NET..... 9.95



Top-Value knight-kit 12-Watt Complete Amplifier Kit

NET
\$19.95
Less Cover

- 15 db Inverse Feedback For Distortion-Free Performance
- Boost and Attenuation on Both Bass and Treble
- Preamp Stage Equalized For Magnetic-Cartridge Input
- Push-Pull EL84 Hi-Fi Output Tubes

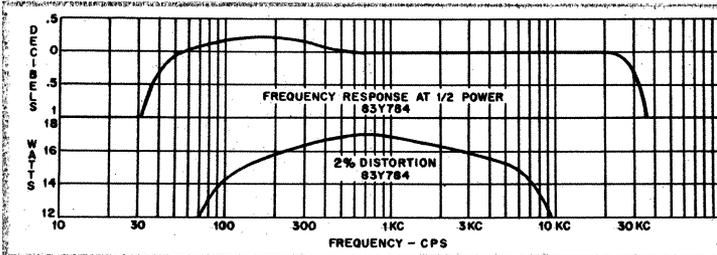
Designed so anyone can build it, and priced so everyone can afford it, the new Knight-Kit 12-Watt Amplifier is truly an amazing value. This compact, custom-engineered amplifier kit brings you superb high-fidelity reproduction at far less cost than that of comparable factory-wired units. In addition to its outstanding performance, this new kit offers you handsome styling that will look well on any table-top or shelf.

It incorporates expertly designed circuitry with EL84 tubes in push-pull output for smooth, clean output over its entire range. 15 db of inverse feedback contributes to the exceedingly low distortion, and internal noise and hum have been reduced almost to the vanishing point. Included are inputs for phono and tuner, a preamp stage equalized for magnetic cartridges and separate bass and treble controls that both boost and attenuate for complete control of tonal color. For superior stereo, now or later, just add the stereo control at left and use the combination with any monaural amplifier, or, better yet, with another Knight-Kit 12-watt!

SPECIFICATIONS: *Frequency Response:* ±1 1/2 db, 30 to 15,000 cps at half power. *Harmonic Distortion:* Less than 1% at full power. *Hum and Noise Level:* Better than 65 db below full power through Tuner input, 45 db through Phono input. *Sensitivity (for full power output):* 1 volt at Tuner input, 10 mv at Phono input. *Inputs:* Tuner and Magnetic Phono (RIAA equalized). *Controls:* Bass (9 db bass boost or cut at 40 cps), Treble (9 db of treble boost or cut at 10 kc), Tuner-Phono switch, Volume, Off-On switch. *Feedback:* 15 db negative feedback. *Output Impedances:* 4, 8, and 16 ohms. *Tubes:* 2—ECC83/12AX7, 2—EL84/6BQ5, EZ80/6V4 rectifier.

With all parts, wire, solder and easy-to-follow instructions; less cover (listed below). For operation from 110-125 volts, 50-60 cycle AC. Shpg. wt., 7 1/2 lbs. 83 Y 784. Only \$2.00 Down. NET..... 19.95

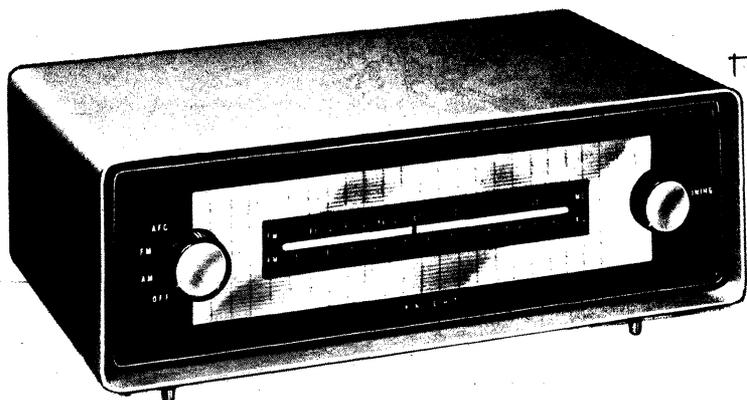
METAL COVER FOR ABOVE. Attractive French-gray perforated cover for above. Size, cage plus amplifier, 5x9 3/4 x 7". Shpg. wt., 3 lbs. 83 Y 783. NET..... 3.95



OUTSTANDING PERFORMANCE

The response and distortion curves at left are graphic illustrations of Knight-Kit performance. Note that the distortion curve is well over the rated power at mid-frequency—you're assured of 12 clean watts of audio.

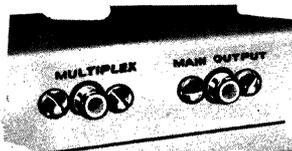
LOW-COST HI-FI EVERYONE CAN AFFORD



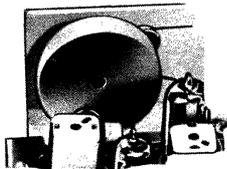
NOW WITH FM STEREO
MULTIPLEX OUTPUT

BUILD AND SAVE

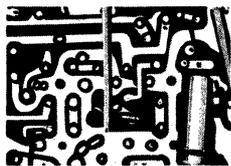
ADVANCED DESIGN



DUAL OUTPUTS. In addition to cathode follower type main output, an output jack is provided for connection of external multiplex stereo adapter—can be wired as a tape output if desired.



EASY FLYWHEEL TUNING. A gentle touch moves the neon glow tuning pointer to the station you select, smoothly and quietly.



PRINTED CIRCUIT WIRING. The tuner of the future—today! Except for power leads, all wiring is done for you on the printed circuits. Assembly is a marvel of simplicity.

Top-Performing knight-kit Hi-Fi FM-AM Tuner Kit

NET

\$49⁹⁵

Only \$5.00 Down

- Modern Printed Circuit—Most of the Wiring Is Already Done
- Exceptional Sensitivity—2.5 μ v for 20 db Quieting On FM
- Flywheel Tuning Plus AFC—Locks In Stations Automatically
- Completely Pre-Aligned—No Further Adjustment Necessary

Here's a hi-fi tuner with every feature required for top performance on FM and AM! You'll be proud to place it where everyone can see its smart styling. It's easy to assemble, too; the entire unit has been carefully designed for quick, easy construction. Superior performance, advanced design and step-by-step assembly make it the greatest tuner value ever!

A tuned RF stage on FM provides high sensitivity—2.5 microvolts for 20 db quieting. Wide-range, flat frequency response guarantees true high-fidelity FM reception that vividly re-creates the full sonority of broadcast music. Built-in ferrite AM antenna may be rotated to improve reception. Flywheel tuning enables you to glide from station to station, effortlessly; automatic frequency control (AFC) locks in FM stations, eliminating distortion due to mis-tuning. AFC defeat switch helps tune distant stations. Has cathode follower output plus additional output which can be wired for an external multiplex stereo adapter or for "off-the-air" tape recording.

The Knight-Kit FM-AM tuner is styled to take its place alongside the very finest high-fidelity equipment; it is completely enclosed in a beautiful French gray case, supported on tapered, chrome-finished feet. Centered on the ebony-and-aluminum control panel is an easy-to-read slide rule scale; stations are located by the self-illuminated neon glow pointer, as it moves across the scale with jewel-like orange brilliance.

FM SPECIFICATIONS: *Sensitivity:* 2.5 microvolts for 20 db quieting. *Hum and Noise:* -65 db. *IF Bandwidth:* 200 kc at 50% down on curve. *Frequency Response:* ± 0.5 db, 20-20,000 cps. **AM SPECIFICATIONS:** *Sensitivity:* 3 microvolts for 10 db signal-to-noise ratio. *IF Bandwidth:* 8 kc at 50% down on curve. *Frequency Response:* 20 to 8000 cps.

Most of the wiring is already done on the single large printed circuit board; pre-aligned RF and IF sections mean that you can play the tuner—without further adjustment—as soon as assembly is complete. Simple, non-technical instructions take you through the entire assembly, a step at a time. Everything is supplied—all parts, pre-cut wire, solder, output cable, and the attractive French gray steel cabinet. Size, 4 $\frac{1}{4}$ x13 $\frac{1}{4}$ x8" (plus $\frac{3}{4}$ " legs). For 110-125 v., 50-60 cycle AC. Shpg. wt., 12 lbs. 83 YX 787. NET..... 49.95

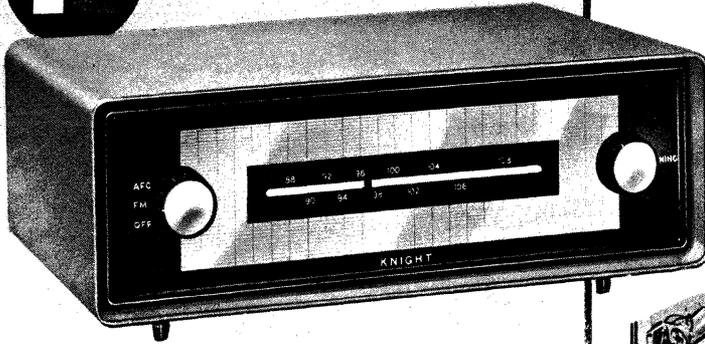
SAVE ON COMPLETE SYSTEMS FEATURING knight-kits!

See pages 28 through 31 for Allied-selected music systems featuring easy-to-build Knight-Kits. You'll save many dollars by assembling components yourself—and save even more by selecting a system at Allied's special system price! Expertly engineered to give you top value.

knight-kit MONEY-BACK GUARANTEE

Every Knight-Kit meets or exceeds published specs—
or your money is refunded.

knight-kit HI-FI EQUAL TO THE BEST

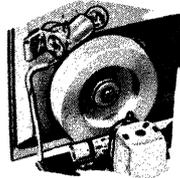


UP-TO-THE-MINUTE FEATURES



OUTPUT JACK FOR CONNECTION OF FM MULTIPLEX UNIT

Ready for FM stereo broadcast reception (whenever this system is adopted for general use), the Knight-Kit Basic FM Tuner is now equipped with a multiplex output jack in addition to its main output jack.



FLYWHEEL TUNING

A gentle touch is all it takes to move the weighted, flywheel dial mechanism. Tuning is effortless and velvet-smooth—you glide from one station to another.

knight-kit Basic FM Tuner Kit

NET

\$38⁹⁵

\$3.90 Down

- Has Stereo Multiplex Output Jack
- AFC "Locks In" on FM Stations
- Latest Time-Saving Printed Circuit
- Pre-aligned RF and IF Coils

A notable achievement in creative engineering, distinctive design and impressive performance, the Knight-Kit Basic FM Tuner Kit is not only the best looking tuner kit that money can buy—but the only FM tuner kit with all these deluxe features: superb styling, which is both attractive and functional; printed circuit for ease of assembly; automatic frequency control, for "lock in" tuning of stations, with disabling feature for tuning in weak stations adjacent to strong stations; pre-aligned RF coils on rigid forms to eliminate any need for adjustment; IF's pre-aligned so accurately that they need no further adjustment; front ventilation, an integral part of panel design; new FM multiplex output jack, for FM stereo broadcasts. This excellent unit holds its own even with pre-wired tuners costing much more. You'll be proud of its trim appearance and brilliant performance.

SPECIFICATIONS. Sensitivity: 4 μ v for 20 db quieting. Output: 2 volts at 1000 μ v input. IF Bandwidth: 200 kc. Audio Response: 20-20,000 cps. 2 Outputs: one for amplifier, the other for external multiplex stereo adapter (may be wired as tape recorder output if desired). Controls: Tuning; Off, FM, FM with AFC. Tubes: 6BQ7A, 6BA7, 12AT7, 2-6AU6, 6AL5, 12AU7, 6X4 rectifier. Cascade broadband RF amplifier. Overall size: 4 $\frac{1}{4}$ " high (plus $\frac{3}{4}$ " legs), 13 $\frac{1}{2}$ " wide, 8" deep.

Complete with all parts, wire and solder, and highly attractive cabinet. Step-by-step instructions and giant-size pictorial diagrams thoroughly cover every step of assembly—you'll enjoy building this outstanding hi-fi kit. For operation from 105-125 volts, 50-60 cycle AC. Shpg. wt., 12 lbs.

83 YX 751. NET..... 38.95

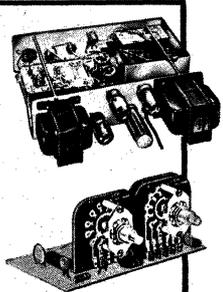


3 PRINTED CIRCUIT BOARDS

Wiring is greatly simplified. Assembly is quick and easy—perfect results too.

PRINTED CIRCUIT SWITCHES

Make short work of the most tedious part of kit building.



knight-kit 30-Watt Hi-Fi Amplifier Kit

NET

\$76⁹⁵

\$7.70 Down

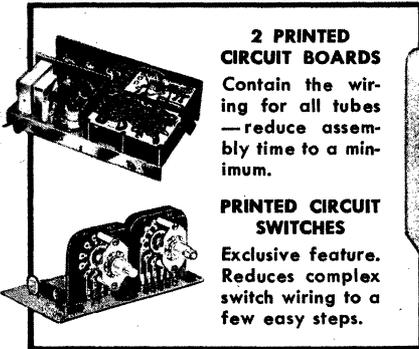
- A-AB-B Speaker Selector Switch
- Harmonic Distortion Never Exceeds 1%
- Response, ± 0.5 db, 15-100,000 cps
- Inputs for Any Sound Source

A marvel of engineering skill, the Knight 30-watt amplifier is the finest complete hi-fi amplifier you can buy in kit form! Its superb specifications and performance put it in a class by itself. Every necessary control is provided in the preamplifier section, including 6 combinations of precise record equalization. Includes 3 printed circuit boards, exclusive printed circuit switches, premium 12AY7 tube and oversized transformers.

SPECIFICATIONS. Power Amplifier Response: ± 0.5 db, 15 to 100,000 cps at 30 watts. Harmonic Distortion: never exceeds 1% from 20-40,000 cps at 30 watts. I.M.: 0.74% at 20 watts. 8 Inputs: Tape Head, Tape Preamp, G.E. and Pickering Cartridges, Ceramic Cartridge, Mike, Auxiliary, Tuner (with level set). 2—5881 output tubes. Controls: Input Selector-Turnover (Tape, Tuner, Mic, Aux, FFRR, RIAA, Eur, AES); 4-pos. Rolloff; Bass; Treble; Level; Off-On/Loudness; Speaker Selector; Tape-Phono Switch; Rumble Filter. Output Imp.: 8 and 16 ohms. 4 $\frac{1}{4}$ x15 $\frac{1}{2}$ x15". With tubes, wire, solder, etc. For 105-125 v., 60 cycle AC. 32 lbs.

83 YU 762. NET..... 76.95

LOW-COST HI-FI ANYONE CAN AFFORD

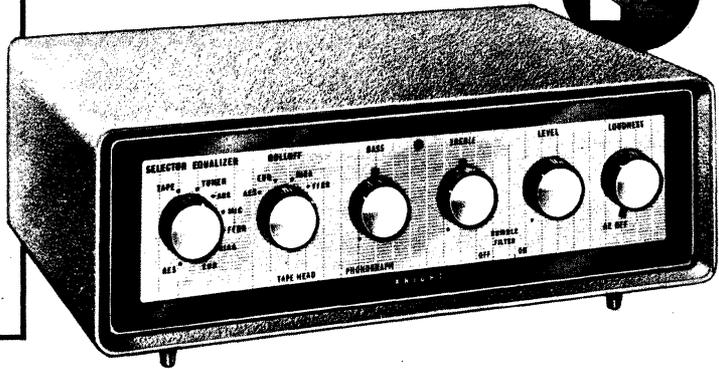


2 PRINTED CIRCUIT BOARDS

Contain the wiring for all tubes — reduce assembly time to a minimum.

PRINTED CIRCUIT SWITCHES

Exclusive feature. Reduces complex switch wiring to a few easy steps.



Knight-kit Hi-Fi Preamp Kit

NET
\$39⁹⁵
\$4.00 Down

- Deluxe Audio Control Center
- No Hum—DC On Tube Filaments
- 16 Combinations of Equalization
- Response: ± 0.5 db, 10-40,000 cps

Feature for feature, this preamplifier-equalizer kit stands unrivalled as the best buy in an audio control unit. Printed circuit switches, an exclusive Knight-Kit development—make possible ease of assembly never before achieved in a kit of this kind. *All wiring in the new Knight-Kit preamplifier is on two printed circuit boards*, except for the power supply and control leads. Other features include: Cathode follower output; separate output to recorder, independent of tone and volume controls; continuous loudness and level controls; 16 equalization combinations; plus many others.

SPECIFICATIONS. *Frequency Response:* ± 0.5 db, 10-40,000 cps. *Harmonic Distortion:* Less than 0.15% at 1 v. output; less than 0.25% at 3 v. output. *Hum Level:* 60 db below 3 v. at high-gain inputs; 80 db below 3 v. at low-gain inputs. *8 Inputs (figures denote sensitivity in millivolts for 1 v. output):* Tape Head (2 mv); G.E. Phono (2 mv); Pickering Phono (5 mv); Ceramic (150 mv); Mic. (24 mv); Aux. (400 mv); Tape Pre-amp (125 mv); Tuner (125 mv). Level adjustment for Tuner input. *Controls:* Selector-Equalizer (Tape, Tuner, Aux, Mic, FFRR, RIAA, Eur, AES); Rolloff (AES, EUR, RIAA, FFRR); Bass; Treble; Level; Off-On/Loudness; Tape Head-Phono; Rumble Filter On-Off.

With all parts, tubes, wire, and solder. $4\frac{1}{4} \times 13\frac{1}{4} \times 8\frac{1}{2}$ ". For 105-125 volts, 50-60 cycle AC. Wt., $12\frac{1}{2}$ lbs. 83 YX 754. NET. 39.95

New Knight-kit 25-Watt Hi-Fi Basic Amplifier Kit

NET
\$44⁵⁰
\$4.45 Down

- Brand New Design—Better Than Ever
- Hum and Noise 96 db Below 25 Watts
- 0.11% Harmonic Distortion; 0.17% IM
- New Narrow Chassis—Only $4\frac{3}{4}$ " Deep
- Time-Saving Printed Circuit Board

Introducing the new version of the world-renowned 25-watt basic amplifier—a triumph of engineering skill and equal to high-fidelity components costing twice as much! Williamson-type circuit delivers over 25 watts of virtually flawless output. Designed for use with any tuner or preamplifier having a full set of controls.

DELUXE FEATURES. Custom-quality, potted output transformer for superior response; printed circuit board for easy assembly; balance control for precise adjustment of output tubes; damping control variable from 0.5 to 50 to assure optimum performance with any speaker—prevents low-frequency distortion caused by overdamping or underdamping in speaker systems.

SPECIFICATIONS. *Rated Output:* 25 watts. *Response:* ± 0.5 db, 9 to 70,000 cps at $12\frac{1}{2}$ watts. *Harmonic Distortion:* 0.11% at 25 watts. *IM:* 0.17% at 25 watts. *Output Imp.:* 4, 8, 16 ohms. *Tubes:* EF86, 12AX7, 2—EL37; GZ34 rectifier.

Styled in black and chrome. With all parts, tubes, wire, solder and instructions. Less cover (below). For 105-125 v., 60 cycle AC. Size, $4\frac{3}{4} \times 14\frac{1}{2} \times 7\frac{1}{8}$ ". Shpg. wt., 25 lbs. 83 YU 793. NET. 44.50

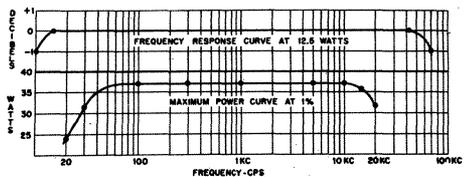
METAL COVER FOR ABOVE. Gold finish—contrasts beautifully with gleaming chrome chassis of amplifier. Shpg. wt., 3 lbs. 83 YX 794. NET. 4.75



25-Watt Basic Amplifier



Metal Cover



HERE'S PROOF OF SUPERB HI-FI PERFORMANCE

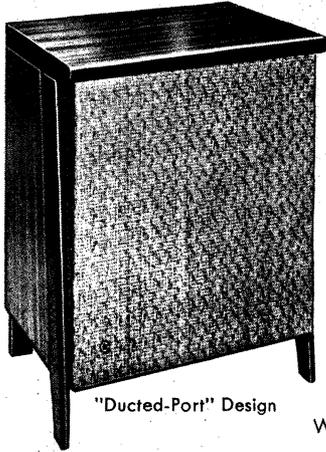
SAVE MONEY! BUILD YOUR OWN **knight-kit** HI-FI SPEAKER SYSTEM



EASY TO ASSEMBLE. No experience is required to easily assemble Knight-Kit speaker systems. Illustrated, clearly written instructions make assembly a marvel of simplicity.

COMPLETE. You'll find everything you need in a Knight-Kit speaker system—highest-quality speakers, pre-finished cabinetry, all hardware, acoustic insulation and instructions.

knight-kit 2-Way Speaker System



"Ducted-Port" Design



12" Woofer



Tweeter With Control

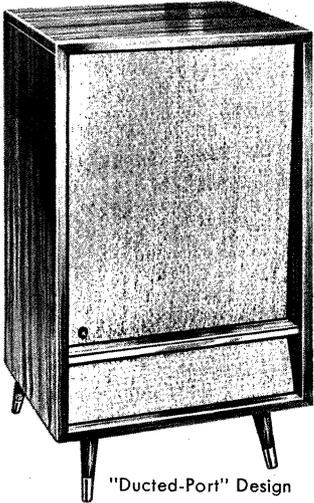
NET
\$49⁹⁵

\$5.00 Down

- Pre-Finished in Mahogany, Blonde, or Walnut
- 12" Woofer, Compression-Type Tweeter
- Easy To Assemble—Only 7 Pieces
- Hi-Fi Response: ± 5 db, 45-14,000 cps

Assemble only 7 pieces—mount the speaker components—and enjoy exciting hi-fi sound at remarkably low cost! Perfect for budget-priced stereo systems—provides excellent stereo reproduction when used in pairs. Carefully engineered for outstanding acoustic performance, the Knight-Kit "ducted port" enclosure kit delivers beautifully balanced sound from 45 to 14,000 cps. L-pad tweeter control permits easy adjustment of tweeter for best tonal balance. Neat, clean design of the fully assembled enclosure matches any type of furnishing scheme. Grille cloth in neutral tan with gold metallic threading is pre-fitted on front panel. Includes quality 12" woofer, compression-type tweeter, and level control; pre-finished wood panels; acoustic material; glue; hardware; and step-by-step instructions. Impedance, 16 ohms. Overall size, 26x29x14". Enclosure in mahogany, blonde or walnut—specify your choice when ordering. Shpg. wt. 33 lbs.

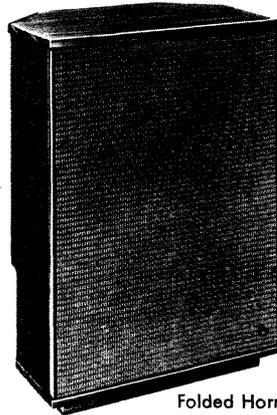
83 YU 789-C2. Only \$5.00 Down. NET 49.95



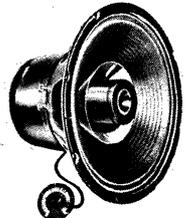
"Ducted-Port" Design



Knight KN-800
12" 3-Way
Speaker



Folded Horn Design



3-Way Speaker

knight-kit "Ducted-Port" 3-Way System

NET
\$73⁴⁵

Save \$8.00

- With Knight 12" 3-Way Speaker
- Easy-To-Assemble, Pre-Finished Enclosure
- "Ducted Port" For Excellent Bass
- Choice of Mahogany, Blonde or Walnut

Save \$8.00 on this easy-to-assemble 3-way speaker system. Consists of Knight KN-1260K pre-finished enclosure kit and the famous Knight KN-800 12" 3-way speaker. Ideally suited for placement along any wall for excellent high-fidelity reproduction—perfect for use in pairs in moderate-priced stereo systems. Features "ducted port" design; tongue-and-groove joints; vibration-free wood panels; hand-rubbed, fine furniture veneers. Enclosure has sloping front panel with brass divider and tapered legs. 32x17½x15". In mahogany, blonde or walnut finish—specify. Shpg. wt. 47 lbs. 79 DZ 262-C2 Only \$7.35 Down. NET 73.45

knight-kit Folded Horn 3-Way System

NET
\$88⁴⁵

Save \$6.00

- Folded Corner Horn Design
- Famous Knight 12" 3-Way Speaker
- Dignified Styling—Choice of 3 Finishes
- Quick, Easy Assembly—Nothing Else to Buy

Unquestionably the finest value in a 3-way, pre-finished hi-fi speaker system kit. Includes the Knight corner-type KN-1250K enclosure kit and the Knight KN-800 12" 3-way speaker—at important savings of \$6.00 over the cost of individual components. The laboratory-proven folded horn enclosure combines with the renowned Knight speaker to deliver superb response. Designed for corner placement; provides rich monaural reproduction—thrilling stereo when used in pairs. 33½x22¾x15¼". In mahogany, blonde or walnut—specify when ordering. Shpg. wt. 55 lbs. 79 DZ 273-C2. Only \$8.85 Down. NET 88.45

Knight-Kits ARE THE FIRST CHOICE OF HOBBYISTS.

Fun to build and enjoyable to use! That's why Knight-Kits are the first choice of students, hobbyists and experimenters. Assembly is a marvel of simplicity—parts fit together quickly and easily. Clearly written, detailed instructions plus giant-sized pictorial diagrams guide you along every step of the way—you can't go wrong. You get . . . premium quality parts for absolute dependability . . . the latest advances in equipment design . . . up-to-the-minute styling . . . and extra savings, made possible through Allied's volume buying. You'll have only the highest praise for Knight-Kits, in ease of assembly and outstanding performance at low cost.



NEW! "SPAN MASTER" 4-BAND RADIO WITH WORLD-WIDE RANGE



A WORLD OF RECEPTION AT YOUR FINGERTIPS!

knight-kit "Span Master" 4-Band Receiver Kit

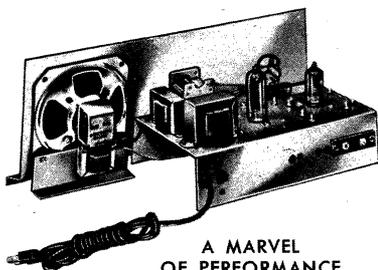
NET

\$24⁹⁵

\$2.50 Down

- Continuous Coverage From Broadcast To 30 Mc
- Instant Bandswitching Over All Four Bands
- Calibrated General Coverage and Bandsread Dials
- Efficient 4" Alnico V Speaker
- Exceptionally Sensitive Regenerative Circuit

New thrills are yours with the advanced-design Knight-Kit "Span Master". Whether you're a beginner, or have years of electronic experience, you'll find the easy assembly a rewarding experience. The completed unit will provide you with standard broadcast-band and exciting shortwave reception originating on land, sea and air—anywhere!



A MARVEL
OF PERFORMANCE

Thrilling world-wide reception plus favorite local broadcasts are yours with this highly sensitive, 4-band regenerative receiver. Easy to assemble and fun to operate, the "Span Master" brings a new world of listening adventures into your home. You can tune in on interesting foreign broadcasts, listen in on ships-at-sea and aircraft, hear news-making police and fire-alarm calls—even receive exciting amateur stations on the 80, 40, 20 and 10 meter bands.

Assembling the "Span Master" is a marvel of simplicity—anyone can do it—no previous technical skill is required. World-famous Knight-Kit step-by-step instructions and giant-sized pictorial diagrams guide your every move—it's like having a good instructor at your side! Building your own receiver is a rewarding experience—you'll take pride in your accomplishment and thrill to its superb performance.

The heart of this peak-performing unit is its expertly engineered, exceptionally sensitive regenerative circuit. Bandsread dial and Fine Regeneration control simplify critical tuning—provide excellent high-frequency reception. Each band coil has its own antenna winding to assure maximum sensitivity.

A listing of stations throughout the world is included to aid your selection; ideal reception time is also noted. In addition, the instruction manual includes the International Morse Code to help you learn to receive radiotelegraph messages sent by press stations, military stations, amateurs, etc.

All controls are conveniently located on a smartly styled front panel. Controls include: calibrated Main Tuning, Bandsread Tuning, Bandswitch, Volume, Coarse and Fine Regeneration. Also included are headphone terminals and a speaker cut-out switch to permit private headphone reception if desired. Receiver has a transformer-type power supply to permit more efficient use of tubes for optimum sensitivity. Employs a 6BZ6 and a high-gain 6AW8; selenium rectifier.

No special tools are required—the entire assembly can be done with a soldering iron, screw-driver and pliers. Supplied complete with fabrikoid-covered cabinet, tubes, speaker, wire and solder, all parts and hardware, and marvelously clear instructions. Size: 6 $\frac{3}{4}$ " high, 13 $\frac{1}{8}$ " wide and 6 $\frac{3}{8}$ " deep. For operation from 110-125 volts, 50-60 cycle AC. Shpg. wt., 7 lbs.

83 Y 258. NET 24.95

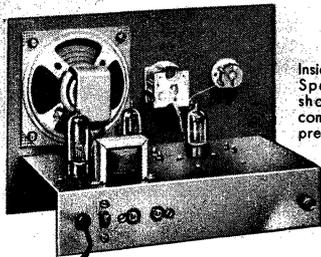


LOW-COST knight-kit

HIGH-PERFORMANCE RADIO



Acclaimed by enthusiastic kit builders the world over as the most rewarding receiver ever designed—that's the heritage of the "Space Spanner" receiver.



Inside view of "Space Spanner" receiver, showing top-quality components mounted on pre-punched chassis.

knight-kit "Space Spanner" Receiver Kit

EXCITING WORLD-WIDE SHORT WAVE RECEPTION

NET
\$18⁹⁵

With Case

- Receives Broadcast Band and Short Wave
- Highly Sensitive Regenerative Circuit
- Convenient Bandswitching From Front Panel
- Built-In 4" Speaker—Beam Power Output

Enjoy new horizons of excitement with the world-famous "Space-Spanner", now restyled with a smart new cabinet and a professional-type two-tone control panel. Imagine the thrill of hearing broadcasts from overseas on an efficient short-wave receiver you've built yourself! Then, just flip a switch to tune in the ball game on your favorite local station. It's like having a private "ear to the world"! The sensitive "Space Spanner" circuit—acclaimed by thousands of enthusiastic owners—tunes short wave from 6.5 to 17 megacycles, bringing you the 40 and 20 meter amateur bands, international broadcasts, plus maritime, police and aircraft communications, and the National Bureau of Standard time signals. Standard broadcast coverage is complete, from 540 to 1700 kilocycles.

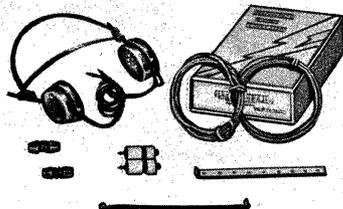
Building the "Space Spanner" is an ideal way to learn about radio—and an economical way to own a fine receiver. You'll enjoy working from the clear, detailed instructions supplied. Big picture diagrams show you exactly where to put every part; an 8-page section explains the principles of radio, and shows how to get the most from your "Space Spanner".

The radio itself is loaded with features: headphone connectors on rear panel allow private listening; speaker cut-out switch provides instant control for private or non-private listening. Built-in 4" PM speaker and 50C5 beam power output tube deliver plenty of volume; sensitive circuit employs 12AT7 regenerative detector and audio amplifier; 35W4 rectifier tube. Six controls allow precise, accurate tuning: Band-spread, Main Tuning, Antenna Trimmer, Bandswitch, Regeneration, and Volume.

Everything is considered to help make the building of the "Space Spanner" a rich, rewarding experience: all parts are carefully packaged in transparent plastic bags; resistors are mounted on cardboard strips, complete with circuit symbols clearly marked; wire is pre-cut and color-coded for instant, error-free use; capacitors are stamped with their values to assure easy identification; there's even a generous supply of solder. Premium-quality parts guarantee absolute dependability—your assurance of outstanding performance. You need only a soldering iron, and a few other simple tools, for fast, enjoyable assembly.

Kit is supplied complete with all parts, tubes, cabinet, wire, solder and easy-to-follow step-by-step instructions. Sturdy wood cabinet has handsome, mottled-gray pyroxylin covering. Size, 7x10½x6". For 110-125 volts, 50-60 cycle AC or DC. Shpg. wt., 7½ lbs.

83 Y 259. NET.....18.95



ANTENNA KIT. For peak performance of your "Space Spanner" or "Ocean Hopper". Includes 50-ft. antenna wire, 25-ft. lead-in, insulators, etc. Shpg. wt., 1½ lbs.

83 Y 100. NET.....1.03

HEADSET. High-quality 2000-ohm dual headset, for "Ocean Hopper" or "Space Spanner" receivers. Tip jacks fit receiver terminals. Complete with 4½-ft. cord. Wt., 12 oz. 59 Y 110. NET.....2.00

SAVE! Build Your Own



RELAY UNIT

NET
\$13⁵⁰

Versatile, light controlled switching device of many uses. Has selectable "Trip" or "Auto" operation. Ideal for home or store.

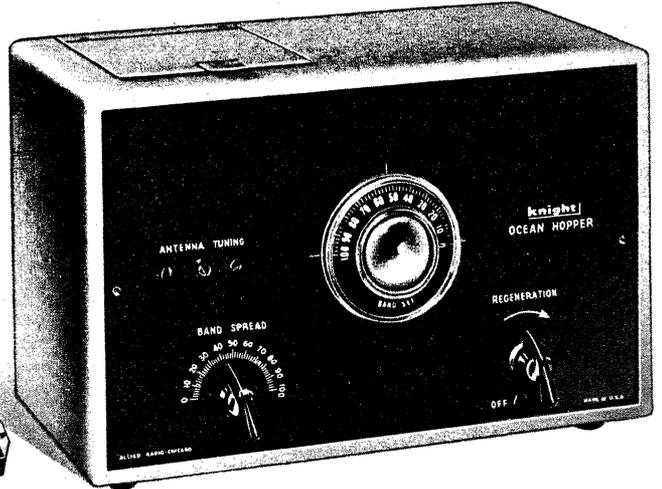
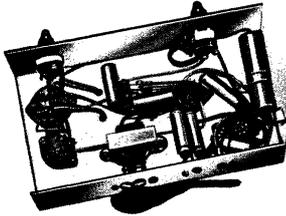
RADIO RECEIVER KITS

THRILLING SHORT-WAVE!



Listening to short wave stations from all parts of the world is fun! You'll hear foreign broadcasts, amateurs all over the world, ships at sea, police, etc.

Inside view of "Ocean Hopper"—illustrates fully-assembled components on pre-punched chassis. Highest-quality parts assure you of top performance.



knight-kit "Ocean Hopper" Receiver Kit BROADCAST, LONG WAVE, AND SHORT WAVE COVERAGE

NET
\$15⁹⁵

With Case

Easy to build and fun to use, this top performing regenerative receiver is truly worthy of its name! It puts a world of listening pleasure at your fingertips—literally hopping oceans to bring in crisp, clear reception from all corners of the earth. The exceptionally wide tuning range of the "Ocean Hopper", using the plug-in coils listed at right, includes all frequencies from 155 kilocycles to 35 megacycles.

Tunes in virtually every type of radio transmission: marine, aircraft, distress call channels, standard broadcast, direction finding, amateur, frequency standard, international broadcast, police and fire departments, etc. A large main tuning knob and electrical bandspread help to make tuning simple and precise. Quality components and careful time-tested design assure you of outstanding results with this famous kit.

- Wide Frequency Coverage
- Simple Highly-Sensitive Circuit
- Extremely Easy to Assemble
- Convenient, Bandspeed Tuning

Front panel controls include Main Tuning, Bandspeed, Antenna Trimmer and Off-On/Regeneration. Tubes are a 12AT6 detector and 50C5 audio output stage; 35W4 rectifier. Kit is supplied with plug-in coil to cover standard broadcast band, wood cabinet with handsome gray pyroxylin covering, pre-punched chassis, tubes, wire, solder, and step-by-step instructions. Less extra plug-in coils (below), headphones and antenna (listed on page 254). Size, 6x9½x5". For 110-125 volts, 50-60 cycle AC or DC. Shpg. wt., 7 lbs.

83 Y 749. NET..... 15.95

PLUG-IN COILS. Shpg. wt., each, 2 oz.

83 Y 741. Long Wave. 155-470 kc. NET..... 79c

83 Y 742. Short Wave. 1.65-4.1 mc

83 Y 743. Short Wave. 2.9-7.3 mc. } NET

83 Y 745. Short Wave. 7-17.5 mc. } EACH..... 65c

83 Y 744. Short Wave. 15.5-35 mc. }

PACKAGE OF ABOVE COILS. Coil set consisting of 1 long wave and 4 short wave coils. Wt., 1½ lbs.

83 Y 748. NET..... 2.95

knight-kit Photoelectric Relay System . . . For Dozens of Uses!

LIGHT SOURCE



RELAY KIT ONLY. Now you can build your own ultra-sensitive photoelectric relay at very low cost. It's fun to build—and you'll find dozens of uses for it in automatic control of lights, door openers, burglar alarms, counting devices, etc. Ideal for turning on house or store lighting each evening at dusk—turns itself off at dawn.

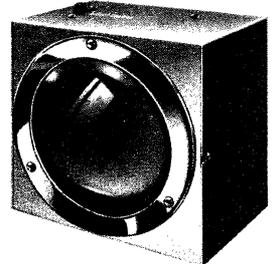
Employs highly sensitive cadmium-selenide photocell in a thyatron circuit that permits operation up to 250 ft. when used with Light Source (below). Has "Trip" for continuous ringing of alarm even if intruder steps out of beam; and "Auto" if relay is to operate each time beam is broken—for chimes, lights, door openers, etc. 5x3x5". For 110-125 volts, 50-60 cycle AC. Shpg. wt., 3½ lbs.

83 Y 702. NET..... 13.50

LIGHT SOURCE KIT ONLY. With bulb and red filter. 6x6x4". For 110-125 v., 50-60 cycle AC. Wt., 3½ lbs.

83 Y 703. NET..... 6.75

77 Y 035. Chime For Use With Relay. 2 lbs. NET..... 3.67



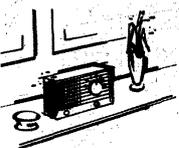
Long-life, sealed-beam light source with deep red filter—perfect companion for the photoelectric relay unit

NET
\$6⁷⁵

When light beam striking photocell is broken, relay unit instantly sounds burglar alarm or chime; turns on lights; opens doors; counts items; etc.

Knight-Kits Use Premium-Quality Components

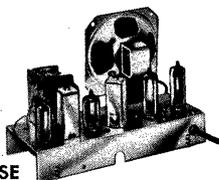
NEW! 4 OUTSTANDING knight-kit "RANGER" MODELS . . .



EASY TO BUILD—FUN TO USE

You'll point with pride to this smart-looking, high-performance radio that you've built yourself. Assembly is remarkably easy—and it's fun!

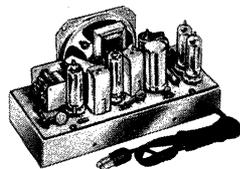
- EASY POINT-TO-POINT WIRING
- MINIATURE TUBES
- IDEAL FOR SCHOOL USE



LATEST PRINTED CIRCUIT SUPERHET

Advanced-design printed circuitry—simplifies assembly, assures peak performance and reduces wiring time to a minimum.

- PRINTED CIRCUIT BOARD FOR EASY, EFFORTLESS WIRING
- BEAUTIFULLY STYLED



knight-kit "Ranger III" AC-DC Radio Kit TOP-PERFORMING BROADCAST BAND RECEIVER

NET
\$16⁹⁵

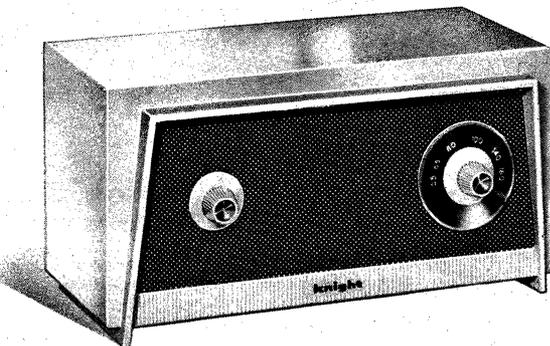
- Highly Efficient Superhet Circuit
- Rich, Full-Toned Sound
- Smart, Modern Plastic Cabinet
- Crystal-Clear Instructions

The latest version of a remarkably fine table radio in kit form. High-quality parts and expert design give outstanding superhet reception on the broadcast band. You're sure to enjoy its excellent performance.

Can be assembled with no previous radio experience. The clear, step-by-step instructions and giant-sized diagrams make construction easy and fun. An excellent aid to understanding radio. No special tools or instruments required. The entire job can be done with a soldering iron, screwdriver, and pliers. Construction of this quality radio will reward the builder with years of dependable service—and the pride that comes from building a working radio receiver himself.

Covers the entire broadcast band for exciting reception from your favorite program. Fine quality Alnico V speaker and acoustically designed cabinet for clear, full tone. Sensitive superheterodyne circuit includes automatic volume control to reduce blasting and fading. Cadmium-plated steel chassis. Ball bearing capacitor for smooth, effortless tuning. Smart black plastic case, attractively accented in white to complement any decor.

Multi-purpose miniature tubes include: 12BE6, 12BA6, 12AV6 and 50C5. Rectifier is a 35W4. Highly efficient Hi-Q loop antenna for maximum sensitivity. Supplied complete with wire and solder, tubes, cabinet, speaker, all parts, and hardware. Size: 5½" high, 8⅝" wide and 4⅝" deep. For operation from 110-125 volts, 50-60 cycle AC or DC. Shpg. wt., 4½ lbs.
83 Y 736. NET 16.95



knight-kit "Ranger III-PC" AC-DC Radio Kit PRINTED CIRCUIT BROADCAST BAND SUPERHET

NET
\$18⁹⁵

- Up-To-The-Minute Printed Circuitry
- Exceptionally Easy to Assemble
- Beautifully Styled Plastic Cabinet
- Has Clear, Sensitive Reception

An easy-to-put-together, top-performing table radio in kit form—fun to use and beautiful to behold. Highest-quality parts and skillful engineering combine to make this a truly outstanding radio. You'll be amazed with its excellent tonal quality and crystal-clear reception over the entire broadcast band.

Construction is simplified through the use of a printed circuit board—most of the point-to-point wiring is already completed. Detailed, easy-to-follow instructions and giant-sized diagrams spotlight every step of assembly—it's like having a good instructor at your side. A soldering iron and just a few other basic tools are all you need for quick completion of the job—you'll be proud of the results.

In addition to time-saving printed circuitry, this radio also features: highly sensitive superhet circuit with automatic volume control; cadmium-plated steel chassis; smooth-operating ball bearing tuning capacitor; high-quality Alnico V speaker. The smartly-styled plastic cabinet is finished in lustrous ivory with an attractively contrasting brown speaker mesh to blend harmoniously with any decorative scheme.

Utilizes an efficient Hi-Q loop antenna for superior sensitivity. Employs multi-purpose miniature tubes. Supplied complete with cabinet, tubes, wire and solder, speaker, all parts, hardware and instructions. Size: 5¼x 10⅞x4⅞". For operation from 110-125 volts, 50-60 cycle AC or DC. Shpg. wt., 4 lbs.
83 Y 738. NET 18.95

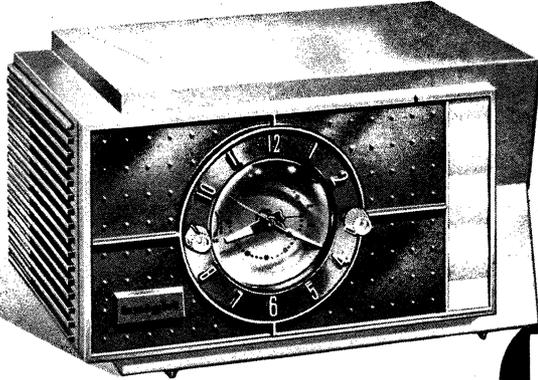
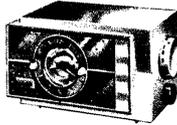
TABLE RADIOS... CLOCK RADIO... RADIO-INTERCOM



ADVANCED-DESIGN CLOCK-RADIO

A rare combination of complete versatility and unsurpassed ease of assembly—brilliantly engineered with years-ahead features.

- MODERN PLUG IN MODULES
- PRINTED CIRCUIT BOARD
- EASIEST TO ASSEMBLE
- TELECHRON CLOCK



knight-kit "Ranger" Clock-Radio Kit WITH SLEEP-SWITCH AND APPLIANCE OUTLET

NET
\$24⁹⁵
\$2.50 down

- Superb Broadcast Band Reception
- Top-Quality Clock-Timer Unit
- Unbeatable Ease of Assembly
- Ultra-Smart Cabinet Styling

You'll be amazed how quickly and easily this versatile clock-radio kit goes together—and you'll be delighted with its superb performance. The use of expertly designed module plug-in circuits and a printed circuit board reduce assembly time to the barest minimum.

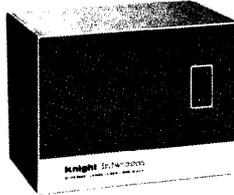
The efficient superhet radio provides excellent reception of the entire broadcast band. In addition, the unit has a Telechron clock with a versatile sleep-switch timer plus an automatic radio wake-up/alarm switch. Here's what you can do: play radio at any time—go to sleep with music (radio shuts off after desired time lapse up to one hour); wake up to music; wake up to music (followed in 10 minutes by an alarm signal); plug in a coffee-maker to go on automatically at the same time you wake up to music.

No special tools are used for assembly—only a soldering iron, and a few other basic tools are required. Clearly written, step-by-step instructions and giant-sized diagrams show you exactly how to do a professional-looking job. Anyone can build this kit—and it's fun.

Handles appliances rated to 15 amps (1800 watts). Beautifully styled plastic cabinet is attractively finished in blue and white. Luminous clock hands. Tubes: 12BE6, 12BA6, 12AV6 and 50C5; rectifier is a 35W4. 6x9⁵/₈x5³/₈". With tubes, cabinet, wire and solder, all parts, speaker and hardware. For 110-125 v., 50-60 cycle AC. Shpg. wt., 5 lbs.
83 Y 737. NET..... 24.95

IT'S A RADIO! IT'S AN INTERCOM!

Easy to assemble and fun to operate. Here's a kit that lets you enjoy radio broadcasts and saves you steps by doubling as an intercom!



knight-kit "Ranger" Radio-Intercom Kit DUAL-PURPOSE—RECEIVER & 2-WAY INTERCOM

NET
\$27⁵⁰
\$2.75 down

- Selective Superheterodyne Circuit
- Clear, Sensitive Intercom Response
- Time-Saving Printed Circuit
- Attractively Styled Cabinets

Smooth-operating, highly versatile two-station radio-intercom kit consisting of a Master and a Remote unit—at remarkably low cost. Easy to assemble and fun to use, this outstanding system has many deluxe features: sensitive superhet circuit for excellent broadcast band reception; efficient 2-way intercommunication; and handsome, ultra-smart styling.

Both the Master and Remote can originate calls. Radio broadcasts are automatically silenced during conversations on intercom. Master has two separate volume controls: the knob at the front is for radio volume; a knob at the rear is for intercom volume. Conveniently located push-button on top of Master is used to originate calls; Remote station has an easy-action slide switch to call Master. All broadcasts are automatically received by Remote station.

System can accommodate up to 3 Remotes in parallel. Master, 5¹/₄x10¹/₈x4⁷/₈"; Remote, 4³/₄x6¹/₈x4⁹/₈". Ivory plastic cases, with brown mesh grille insert. Only the Master station need be connected to an AC or DC power source. With cases, tubes, wire and solder, 50' cable, all parts and instructions. For 110-125 volts, 50-60 cycle AC or DC. Shpg. wt., 8 lbs.
83 Y 739. Master and 1 Remote. NET..... 27.50

EXTRA REMOTE STATION KIT. Less cable. 3 lbs.
83 Y 298. NET..... 3.95

EXTRA CABLE. Shpg. wt., 100 ft., 2¹/₂ lbs.
47 Y 684. NET PER FOOT..... 5c

TRANSISTORIZED Knight-kit VALUES FOR HOBBYISTS



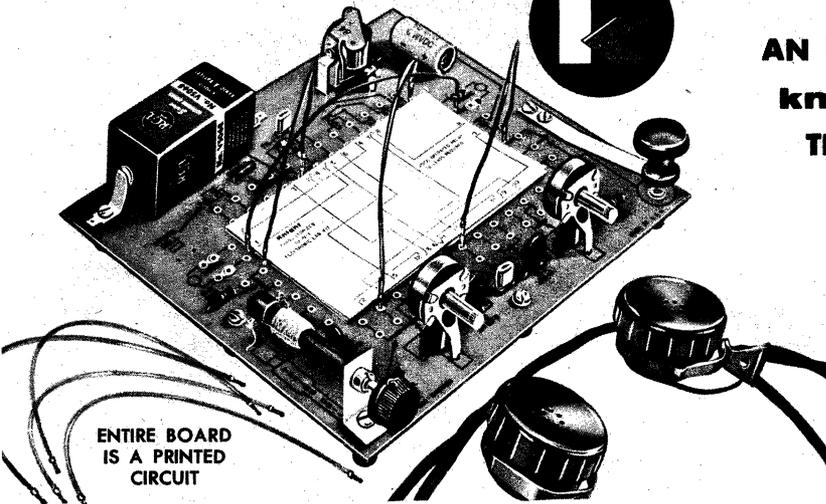
Knight-Kit hobbyist kits are kept up-to-date in every detail to assure you of the exceptional performance and value that latest developments in electronics make possible. The amazingly versatile 10-Circuit Lab Kit described below, the handsome, sensitive portable radio on the next page, as well as many other Knight-

Kits, feature transistors—the latest electronic marvel. Because transistors last indefinitely and use remarkably little power, Knight-Kit transistorized kits offer maximum dependability plus extreme economy of operation. You can be sure of unsurpassed value and quality when you select Knight-Kits—an Allied product.



AN ELECTRONIC MARVEL! knight-kit 10-CIRCUIT TRANSISTOR LAB KIT

... you go from one exciting project to another ... each circuit has a practical use ... each circuit helps teach you how transistors work ...



ENTIRE BOARD IS A PRINTED CIRCUIT

Fascinating Transistor Lab Value For Hobbyists

NET
\$15⁷⁵

Amazing, versatile Knight-Kit 10-Circuit Transistorized Electronic Lab—one of the most rewarding kits ever designed. It's unexcelled in simplicity of construction—truly a marvel of ingenious kit design! One side of the printed circuit board is screen-printed to indicate where all components go—after you solder these basic parts in place, you change from one circuit to the next by merely inserting "plug-in" leads into the proper jacks on the board—no additional soldering! Jacks are already mounted and "plug-in" leads of uniform length already have plugs permanently fastened on the ends. You learn how transistors operate by "plugging in" any one of 10 circuits that really work! An AM radio that gives loud, clear headphone reception—a wireless broadcaster that lets you "broadcast" to any nearby radio—a versatile electronic switch of many uses—a capacity-operated relay that may be used as a burglar alarm, etc.

This top-value kit is supplied complete—you get dual headphones (also serve as mike), "plug-in" circuit leads, guide cards, two transistors, solder, relay and photocell—everything you need, with nothing else to buy! You'll be delighted with the big, easy-to-understand instruction manual that comes with this kit. It tells you exactly what to do to complete initial wiring—then gives you an understanding of transistors by explaining just how each of the 10 circuits works. The perfect kit for the beginner—student—hobbyist—or experimenter. Uses for the circuits in the Transistorized Electronic Lab are limited only by the imagination! Battery-powered. With battery and solder. Shpg. wt., 3 lbs.

83 Y 299. NET 15.75

SO EASY TO ASSEMBLE

SOLDER THE BASIC PARTS IN PLACE . . CHANGE FROM ONE CIRCUIT TO ANOTHER BY PLUGGING IN THE PROPER LEADS.

BUILD ANY ONE OF THESE WONDERFUL PROJECTS:

- 2-Stage AM Radio
- Photoelectric Relay
- Wireless Broadcaster
- Code Practice Oscillator
- Electronic Switch
- 2-Stage Audio Amplifier
- Capacity-Operated Relay
- Electronic Timer
- Voice-Operated Relay
- Electronic Flasher

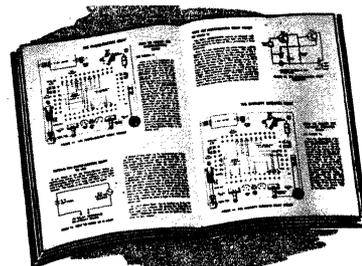
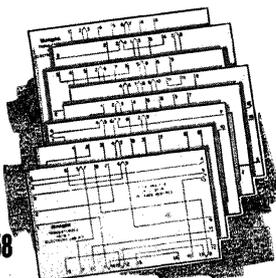
The KNIGHT-KIT 10-Circuit transistor lab kit is an ideal supplement to school electronic courses.

SPECIAL GUIDE CARDS FOR EACH EXPERIMENT

Simply place the guide cards on the board, and plug in the circuit leads where indicated to get a working circuit! Holes for "plug-in" leads are numbered—it's easy—and it's fun!

EACH CIRCUIT IS CLEARLY EXPLAINED

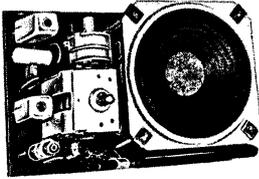
Written in easy-to-follow terms, the manual not only tells you exactly what to do to build the basic chassis, but also fully explains the operation of the transistors in each of the circuits.



SAVE ON THIS 5-TRANSISTOR PORTABLE RADIO

Easiest-to-Build for Thrilling Radio Reception Anywhere

Pay less than ever for this remarkably efficient personal portable radio! It's easily assembled—and offers outstanding value in performance and appearance. Up-to-the minute circuitry provides excellent reception and remarkably clear tone quality. Streamlined in design and finished in eye-pleasing ivory and gold. The gold finished end plate has a convenient pull-out carrying handle.



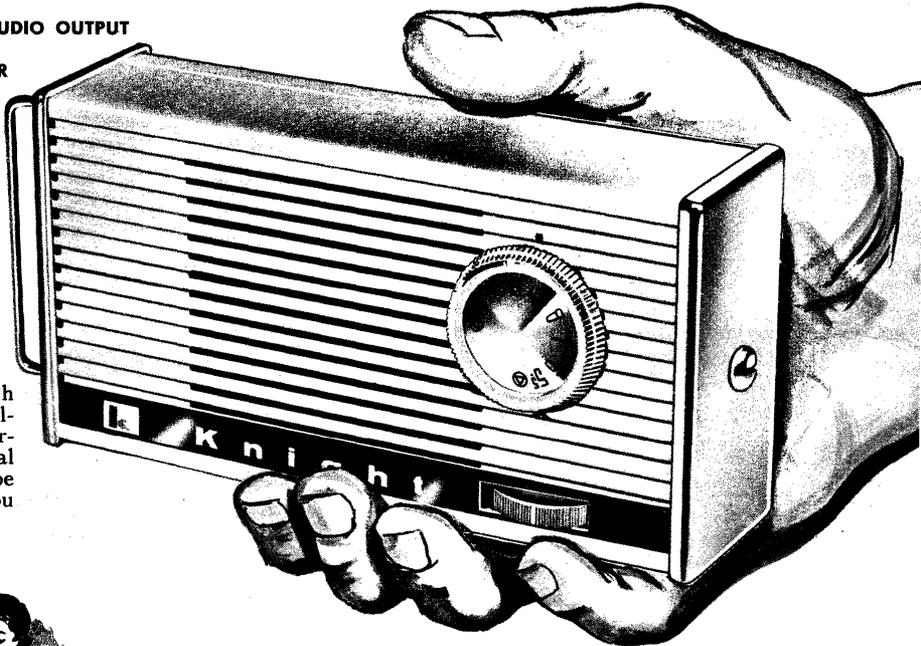
5-TRANSISTOR SUPERHET RADIO

CLASS B PUSH-PULL AUDIO OUTPUT

QUALITY 3½" SPEAKER

**EXCELLENT TONE
STRIKING BEAUTY**

You'll be delighted with the crisp, clear tone quality and the smart appearance of this fine personal portable—and you'll be proud to say that you built it yourself.



knight-kit 5-Transistor Superhet Radio Kit

NET
\$25⁹⁵
\$2.60 Down

- Uses Texas Instrument Co. Transistors
- Printed Circuit for Easy Building
- Average Battery Playing Life, 200 Hours
- Pre-Aligned IF Transformers

Excellent design and efficient circuitry are combined in this handsome, new portable radio kit. Ultra-simple layout, plus use of printed circuit board, provide the utmost in accessibility to all parts and battery—and make assembly unusually easy for anyone. No technical skill is required—you can build it in just one evening!



A convincing example of elegant, functional styling and precision design, the Knight-Kit 5-Transistor Superhet Radio Kit easily ranks with the best of battery-operated portable radios. Among its many excellent features, you'll find: *A big 3½" speaker*, larger than is ordinarily used in portable radios of this type; *premium-quality transistors and component parts*, your assurance of a finished radio kit equivalent in performance to more expensive, pre-wired units; *Class B push-pull audio output stage*, for clear voice and music reproduction and extremely low battery drain; *built-in ferrite loopstick antenna*, for top-notch broadcast reception indoors or out; *phone jack output* to permit private listening whenever you wish.

Assembling the Knight-Kit 5-transistor portable is simplicity itself—in a matter of hours, and using only the simplest of tools, you can build yourself a smooth-operating, professionally styled radio that will deliver outstanding performance. The extremely efficient circuit design results in very low battery drain—you can get *up to 200 hours of playing time* from just a single, 9-volt battery.

The orderly layout of parts, as well as the trim styling of the case, reflects the painstaking care that has gone into the design of the Knight-Kit 5-transistor portable superhet radio. Its smart appearance and highly dependable operation will make you proud to own it, and equally proud to have built it yourself. Carrying weight of only 22 ounces, and pull-out handle make it easy to carry this portable wherever you go.

The printed circuit board simplifies and speeds building, and eliminates chance of wiring error. Two controls: Off-On-Volume and Tuning. Volume control is a handy, recessed thumbwheel. Handsome ivory and gold styling is accented by the use of ebony black panel trim. Size: 3¾" high, 7½" wide, 1¾" deep. With all parts, wire and solder. Less battery, earphone. 2 lbs.

83 Y 771. NET..... 25.95

BATTERY FOR ABOVE. 9-volt. Shpg. wt., 4 oz.

83 Y 772. NET..... 1.43

EARPHONE FOR ABOVE. For private listening. 5.oz.

59 Y 147. NET..... 1.97



NEWEST **knight-kits** FOR HOBBYISTS

Always the first choice of hobbyists and experimenters, new *transistor* Knight-Kits are now more popular than ever before. Fun to build and enjoyable to use, the latest electronic advances are always incorporated into Knight-Kit circuitry and design.

Ease of construction is a hallmark of Knight-Kits. You need only a soldering iron and a few other basic tools. No special tools or skills are required. Parts fit together with ease, and detailed instructions are marvelously clear—you can't go wrong!

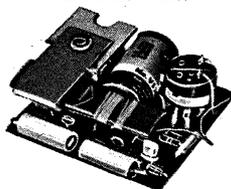
EASY-TO-BUILD, TRANSISTORIZED POCKET RADIO



COMPLETE WITH BUILT-IN EARPHONE, ANTENNA AND CASE



CHASSIS VIEW



A MARVEL OF COMPACTNESS



knight-kit 2-Transistor Pocket Radio Kit

NET
\$ 1.50

- Receives Local Stations Loud and Clear
- Employs Newest Printed Circuit Board
- Operates from Built-In Loop Antenna
- Plays for Months from Single Battery

You'll be delighted with the performance of this outstanding pocket radio! The miniature dynamic earphone, patterned after professional hearing-aid types, provides exceptionally good tonal quality. The two low-drain transistors will enable you to operate it for months and months from a long-life, alkaline-cell battery.

You'll enjoy building this extremely efficient, 2-transistor pocket radio—and your enjoyment will be doubled when you start listening to its crystal-clear, local broadcast reception wherever you go. Compact and portable, it fits easily into your pocket and button-down flap allows it to be suspended from your belt. Only 4" high, 3 $\frac{3}{4}$ " wide, and 1 $\frac{3}{4}$ " deep! You'll find hundreds of uses for this precisely designed, low-cost pocket radio—perfect for baseball and football games, picnics, hikes and many other outdoor activities, as well as private listening indoors.

Employs an extremely efficient, reflex-type, 2-transistor circuit that actually does the work of 3 transistors! Works beautifully from a built-in, high-gain ferrite core antenna—no external antenna is needed to pick up local stations! You'll get months and months of dependable service from the new-type alkaline battery (listed at right, below), since transistors require an incredibly small amount of power.

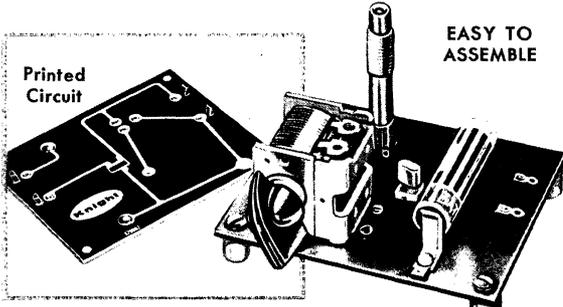
Other important features of the pocket radio include the use of an air-dielectric, variable capacitor for smooth, accurate tuning. The printed circuit board, with all critical wiring already completed, simplifies assembly, reduces building time, and almost completely eliminates chance of wiring error. Everything you need, down to the finest detail, is supplied. "Step-by-step" instructions are marvelously clear and won't let you go wrong. Even with no previous building experience, the entire radio can be assembled in one evening.

Only two controls: On-Off-Volume and Tuning. Carrying weight is only 11 ounces! Handsome tan carrying case is plastic-impregnated and styled to resemble leather. Size, 4" high, 3 $\frac{3}{4}$ " wide, 1 $\frac{3}{4}$ " deep. Kit includes two transistors, carrying case, earphone with 3-ft. cord, wire, solder, all parts, and easy-to-follow instructions. Less battery. Shpg. wt. 1 $\frac{1}{2}$ lbs.

83 Y 263. NET 11.50
83 Y 264. 9v. Battery. For above. 4 oz. NET 1.25

FASCINATING LOW-COST TRANSISTOR KIT

FEATURE-PACKED TRANSISTOR RADIO KIT



EASY TO ASSEMBLE

knight-kit Printed-Circuit Radio Kit

NET
\$3.95

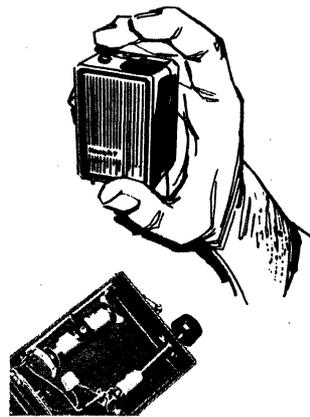
- Outstanding Kit Value
- Printed Circuit Mounting Board
- High-Efficiency Transistor
- Operates on Single Penlight Cell

An amazing radio—small enough to fit into the palm of your hand—and it operates for months and months on just one penlight battery! This popular kit introduces you to the latest marvels of electronics—the transistor and the printed circuit—and delivers excellent head-phone reception on the entire AM band. The transistor is highly efficient—uses remarkably little current—lasts indefinitely—and is extremely small in size. The printed circuit eliminates wiring—makes assembly the last word in simplicity. Kit includes specially designed coil for exceptionally good sensitivity and selectivity. A ball bearing variable capacitor assures smooth, effort-less tuning. With all parts, hardware, transistor, battery, solder, easy-to-follow assembly instructions, etc. Less headphones (4000 ohms impedance or more) and antenna, listed at the bottom of right column. Size, $3\frac{1}{8} \times 3\frac{3}{8} \times 3$ ". Shpg. wt., 1 lb.

83 Y 765. NET.....3.95



WITH PLASTIC CASE



knight-kit "Trans-Midge" Radio Kit

NET
\$2.45

- Uses High-Efficiency Transistor
- Exceptionally Sensitive Reception
- Operates From Single Penlight Cell
- Has High-Impact Plastic Case

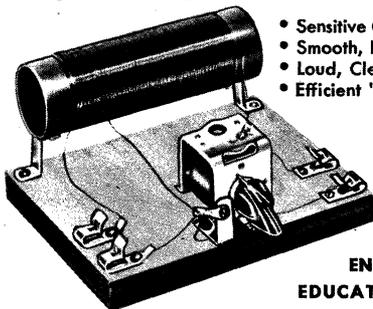
Here's a tiny, 1-transistor radio kit that's just slightly larger than a package of cigarettes! Designed to provide a fascinating, fun-filled evening for both experienced and beginning kit builders. You'll be amazed at how easily it goes together and you'll enjoy its exceptionally fine performance. Small enough to fit easily into the palm of your hand, this efficient radio will give clear reception throughout the standard AM broadcast band. Using a high-efficiency transistor, the "Trans-Midge" has excellent selectivity and displays remarkable sensitivity—pulls in stations loud and clear. The transistor serves as both a detector and an audio amplifier for greater audio volume. Requires the use of an external antenna (listed below).

Features of this expertly engineered little radio include: efficient, slug-tuned coil for high sensitivity and excellent separation of stations; external knob to permit tuning in stations without opening the case; low-drain transistor which operates for months and months on the single penlight cell supplied; durable, positive-locking, red plastic case. Highest-quality parts are used to assure long, dependable service.

Supplied complete with plastic case, all parts, transistor, wire, solder, battery and step-by-step instructions. Less headphones and antenna kit (see below). Size, $3\frac{5}{8} \times 2\frac{5}{8} \times 1\frac{1}{8}$ ". Shpg. wt., 8 oz.

83 Y 767. NET.....2.45

Popular knight-kit Crystal Set Kit



- Sensitive Crystal Diode
- Smooth, Easy Tuning
- Loud, Clear Reception
- Efficient "Hi-Q" Coil

NET
\$2.35

ENTERTAINING
EDUCATIONAL

Remarkable, low-cost crystal set kit. Delivers loud, clear reception of local broadcast stations. Circuit employs a fixed-type germanium crystal diode detector of the type used in high frequency detecting equipment. Crystal is preset and does not require adjustment. Kit includes coil form and wire for winding efficient "Hi-Q" coil. Complete with all parts, detailed instructions, wire, solder and baseboard. Less headphones and antenna kit. Shpg. wt., 1 lb.

83 Y 261. NET.....2.35

59 Y 112. 1000-Ohm Headphones. $1\frac{1}{4}$ lbs. NET. 1.08
83 Y 100. Antenna Kit. $1\frac{1}{2}$ lbs. NET.....1.03



HEADPHONES AND ANTENNA

Headphones and antenna kit for transistor radio kits listed on this page. Antenna is also for crystal set. Antenna includes 50 feet of wire, 25-ft. lead-in, insulators, ground clamp.

4000-OHM HEADPHONES. Shpg. wt., $1\frac{1}{4}$ lbs.
59 Y 149. NET.....2.15
ANTENNA KIT. Shpg. wt., $1\frac{1}{2}$ lb.
83 Y 100. NET.....1.03

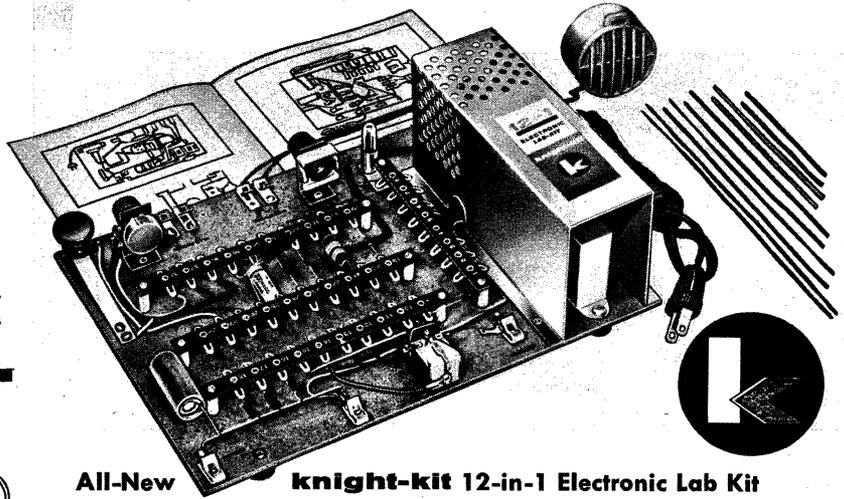
NEW! ELECTRONIC LAB KIT FOR EXPERIMENTERS

Practical Projects Make it Fun to Learn Electronics!

BUILD ANY ONE OF THESE TWELVE FASCINATING DEVICES

- Audio Code Oscillator
- Audio Amplifier
- Home "Broadcast" Station
- Electronic Flasher
- Broadcast Receiver
- Photoelectronic Relay
- Voice-Operated Relay
- Electronic Timer
- Electronic Switch
- CW "Transmitter"
- Capacity-Operated Relay
- Light Control Oscillator

An easy and enjoyable way to learn the basic elements of electronics.



All-New **knight-kit 12-in-1 Electronic Lab Kit**

NET

\$14⁹⁵

- Safety Designed—No Voltage Exceeds 25 v.
- Supplied Complete With Mike and Phototube
- Numbered Terminal Strips Make it Easy to Change from One Circuit to Another
- Informative Manual Explains Every Circuit



The latest Knight-Kit electronic lab kit—now completely redesigned to bring beginners more fun than ever. A special safety-design transformer reduces all voltages to 25 volts or less—far less voltage than in most battery-powered portable radios.

You can build any one of 12 practical circuits—the manual you get with this ingenious kit tells you exactly what to do and clearly explains how each circuit works. Change circuits by relocating a few wires—no need to change position of components. Connect the wireless "broadcaster" to your phonograph and play records through any radio in the house; the capacity-operated relay serves as an excellent burglar alarm; the photoelectronic relay rings bells, turns on appliances, etc. when actuated by light; use the voice-operated relay to turn lights or other devices on or off, just by speaking into mike; practice sending code

through a headphone by using the code oscillator circuit; the electronic flasher continuously turns lamps on, off, and on again; have fun "making music" by using hand motions to control the amount of light striking the light control oscillator; the audio amplifier can be used with mike or phonograph to send voice or music over a long wire to headphone at other end; use the electronic switch to sound an alarm when it rains; the broadcast band radio provides clear headphone reception; you'll be able to send code signals to any radio in your house with the CW "transmitter".

With mike, solder, wire, and all parts, except headphone. For 110-125 v., 50-60 cycle AC. Wt., 3½ lbs. 83 Y 272. NET.....14.95

SINGLE HEADPHONE. With 4½ ft. cord. 8 oz. 59 Y 112. 1000 Ohms. NET.....1.08

Top-Value knight-kit High-Speed Electronic Photoflash Kit

- Fast, 1/700th-of-a-Second Flash
- Output Is Full 50 Watt/Seconds
- Excellent Daylight Spectral Quality
- Ideal for Color and Black and White

\$29⁵⁰

\$2.95 Down

The feature-packed Knight-Kit electronic flash gun kit is perfect for indoor, outdoor, black-and-white, and color photography. The bulb gives over 10,000 flashes at a fraction of a cent per flash! No more bulky, costly flashbulbs, lost shots, misfires.

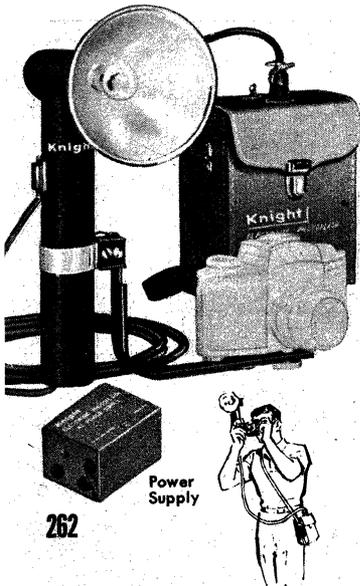
Freezes fastest action with 1/700-second flash. Light approaches daylight in spectral quality—permits using daylight-type color film indoors. Film guide number on average black and white film (ASA

80) is 200; for color film (ASA 10) guide number is 45. Output is full 50 watt-seconds.

Each kit comes complete with universal mounting bracket that fits all cameras, all parts, heavy-duty case, pre-cut wire, solder, and step-by-step instructions and diagrams. For use with "X" or "O" shutters only. Requires sync cable (obtainable from any photo supply dealer) and either battery or AC power supply (below). Shpg. wt., 4 lbs. 83 Y 244. NET..... 29.50

AC POWER SUPPLY KIT. Wt., 2 lbs. 83 Y 246. NET..... 3.95

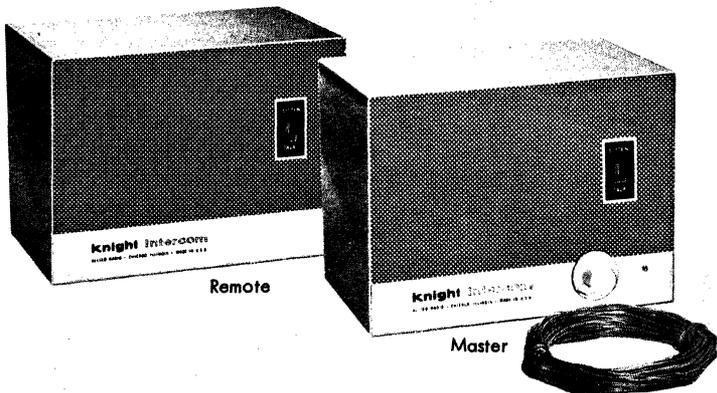
BATTERY. Burgess U-200. 300-volt battery. Shpg. wt., 1 lb. 80 Y 626. NET..... 7.70



SAVE ON THIS EASY-TO-BUILD INTERCOM SYSTEM

**Low-Cost 2-Way Communication
for Home, Store, Office or Factory**

**ANYONE CAN BUILD IT!
THOUSANDS OF USES
HANDSOME NEW STYLING**



High-Gain knight-kit 2-Way Intercom System Kit

NET
\$14⁹⁵

- Low Cost System—Easy-to-Assemble
- With 50-ft. Cable and All Parts
- Handsome Two-Tone Metal Cabinets
- High Gain—Clear Tone—Sensitive

Complete 2-station intercom kit consisting of a Master and a Remote unit—at remarkably low cost. Has hundreds of uses in the home, office, school, shop, etc. Saves steps between house and garage, backyard, basement, baby's room (picks up the slightest sound), etc.

Provides private or non-private operation at the flick of a switch. Master unit has a "press-to-talk" switch; Remote unit has a "talk-listen" switch. Switch on Remote can be left in "talk" position to permit continuous listening-in.

Master can communicate with Remote regardless of position of switch on Remote unit and can handle up to three Remote units in parallel. Extra remotes can communicate with one another. Combination volume

control and on-off switch, plus pilot light, on Master. Only the Master station needs power connection; Remote units can be located anywhere. Kit has a high-gain, 2-stage amplifier and 4" PM speakers. The audio amplifier uses a 2-tube circuit plus a 35W4 rectifier.

Cabinets have been completely restyled—now more attractive than ever. Finished in ivory and brown. With all parts to build a Master and a Remote, tubes, 50-ft. cable, solder and instructions—anyone can easily build this smooth-working intercom outfit. Each unit, 4 $\frac{3}{4}$ "x6 $\frac{1}{2}$ "x4 $\frac{3}{8}$ ". For 110-125 v., 50-60 cycle AC, or DC. Shpg. wt., 8 lbs.

83 Y 297. NET.....14.95

EXTRA REMOTE STATION KIT. For use with above. Less cable. Shpg. wt., 3 lbs.

83 Y 298. NET.....3.95

EXTRA CABLE. Shpg. wt., 100 ft., 2 $\frac{1}{2}$ lbs.

49 Y 604. NET PER FOOT.....3c

Wireless Broadcaster-Amplifier Kit

NET
\$11⁹⁵

- Broadcasts Clear Signal
- Use with Phono or Microphone
- High Gain Stage with Equalizer
- Use as Audio Amplifier

You get more for your money with this new, versatile combination broadcaster-amplifier kit. Use it with a mike or phono to make announcements or play music through radios anywhere in the house—without any need for direct connection to the sets! May also be used as an audio amplifier by attaching to any PM speaker (3.2 to 16 ohms). Has input for magnetic cartridge. Can also be used with crystal cartridge or with a crystal or high-impedance dynamic mike. Puts out a clean, full-toned signal. When used as a wireless broadcaster, the volume may be controlled at broadcaster or at the individual radio receivers. Broadcasting frequency is adjustable from 600 to 1600 kc—easily tuned to any clear frequency on your radio set.

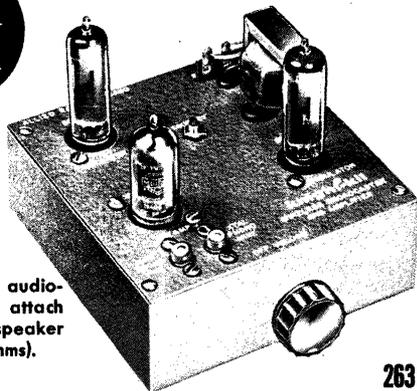
High-gain stage with equalization permits using magnetic cartridge without need for external preamp; equalization may be disconnected for use with mike. Supplied complete with all parts, wire, solder and easy-to-follow instructions. Size, 4 $\frac{1}{2}$ "x5x6". For 110-125 volts, 50-60 cycle AC, or DC. Shpg. wt., 3 lbs.

83 Y 706. NET.....11.95

NEW! AND A WORLD OF FUN!



Lets you make special "broadcasts" to any radio in your house—sing, speak, or play instruments.



Use as an audio amplifier—attach to any PM speaker (3.2 to 16 ohms).

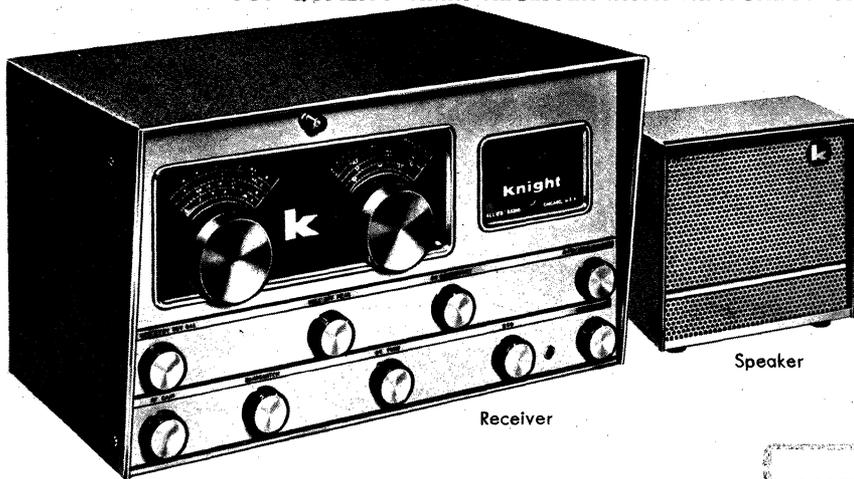


QUALITY knight-kits FOR THE RADIO AMATEUR
YOU GET MORE FOR YOUR HAM DOLLAR IN EVERY WAY

There are no finer values for the Amateur station than Knight-Kit equipment. These outstanding kits are designed to the highest standards of Amateur performance by skilled engineers, who are themselves licensed Amateurs.

When you outfit your station with Knight-Kits you can be sure of equipment that's designed for maximum efficiency, versatility and operating ease—plus the ultimate in dependability. Nowhere can you find greater value.

TOP-QUALITY HAM RECEIVER WITH MATCHING SPEAKER



**IT'S THE BEST!
 BUILD IT YOURSELF
 AND SAVE!**

**EXCLUSIVE
 PRINTED
 CIRCUITRY**

knight-kit Amateur Communications Receiver Kit

NET
\$104⁵⁰
 \$10.45 Down

An outstanding achievement in communications receiver engineering, this superb kit has gained phenomenal acceptance—there is no other receiver like it! Has all the features, selectivity and sensitivity of high-priced commercial units. Covers 540 kc to 30 mc in 4 ranges; calibrated electrical bandspread

on all Ham bands from 80-10; slug-tuned hi-Q coils; continuous VR tube-regulated B+ applied to HF oscillator lets you switch from standby to receive with no drift; built-in Q-multiplier peaks desired signal or nulls interference (*60-db notch really takes out interference*); delayed AVC; built-in noise limiter; provision for "building in" crystal calibrator listed below. Exceptional sensitivity—1.5 μ v for 10 db s/n ratio, *even on 10 meters!* 4 μ v sensitivity on broadcast band. Selectivity is variable from 300 cps to 4.5 kc at 6 db down. Exalted BFO injection for SSB. Controls: main tuning, bandspread tuning, band selector, Q-multiplier selectivity, Q-multiplier tune, null-off-peak, BFO pitch, RF gain, AF gain, BFO-MVC-AVC-ANL, off-stdby-recv-cal, antenna trimmer and headphone jack. Coaxial, plus screw-terminal antenna connectors for 50 to 300-ohm lines. Close-tolerance coils assure minimum alignment time. 455-kc IF. 10x10 $\frac{3}{4}$ x16". With tubes, all parts, wire, solder and instructions. Less speaker and S-meter. For 110-125 v., 50-60 cycle AC. Shpg. wt., 30 lbs.

83 YU 726. NET..... 104.50

SPEAKER KIT FOR ABOVE. 4" speaker with special-design cone for peaking of voice frequencies and reducing QRN over ordinary speakers. In cabinet that perfectly matches the receiver. Imp., 8 ohms. Wt., 3 $\frac{1}{2}$ lbs.

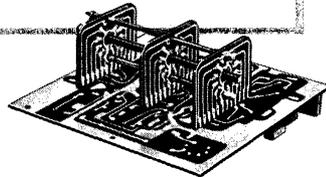
83 Y 728. NET..... 7.50

83 Y 727. S-METER KIT. For above. Shpg. wt., 1 lb. NET..... 10.75

**WORTHY OF THE ADVANCED
 HAM**

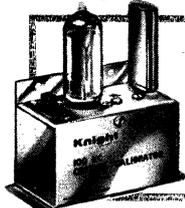
**Professional Features at Far Less
 Than Factory-Built Cost!**

- Printed Circuit Bandwidth
- Printed Circuitry Throughout
- 300 cps to 4.5 kc Selectivity
- Constant-Running HFO
- Bandspread on 80-10 Meters
- Tunes 540 kc to 30 mc
- Built-in Q-Multiplier
- 1.5 μ v Sensitivity on SW
- Vernier Dials—No Strings
- Deluxe Styling—Steel Chassis



Besides two printed circuit boards, the Knight-Kit Amateur Communications Receiver uses—for the first time in any communications receiver—the exclusive printed circuit band-switch. Assures successful performance—reduces assembly time.

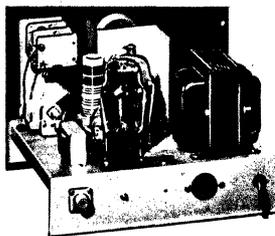
Low-Cost knight-kit 100-kc Crystal Calibrator Kit



NET
\$10⁹⁵

Crystal frequency standard for any receiver, at very low cost. Gives marker every 100 kc up to 32 mc. Only 1 $\frac{1}{2}$ x1 $\frac{1}{2}$ x3". Requires 6.3 v. at 0.15 amp and 150-300 v. DC at 3-6 ma. Trimmer for zero-beating with WWV; on-off switch. With tube, crystal, all parts, wire, solder. Shpg. wt., 1 lb.

83 Y 256. NET..... 10.95



knight-kit VFO Kit

\$29⁵⁰

- Exceptional Stability
- Built-In B+ Supply
- Excellent Keying
- TVI Suppression

\$2.95 Down

Save On This knight-kit 50-Watt CW Transmitter Kit

\$38⁹⁵

- Ideal Transmitter for the Novice
- Long-Life Transmitting Tubes—Effective TVI Suppression
- Convenient Bandswitching—80 through 10 meters
- Efficient Pi-Network Antenna Coupler

\$3.90 Down

A deluxe, high-quality VFO kit at an incomparably low price. Calibrated for 80, 40, 20, 15, 11 and 10 meters; output on 80 and 40 meters. 40-volt output on 80 meters and 20-volt output on 40 meters is more than adequate to excite oscillator stage of any transmitter. An ideal companion to the Knight-Kit 50-watt transmitter at right. Drift-free, series-tuned Clapp oscillator uses 1% silver mica capacitors. Tank coil is wound on heavy ceramic form.

Features TVI suppression; vernier drive. Frequency stability is achieved by careful design and rigid mechanical construction. Two-chassis design keeps heat from oscillator circuit. Voltage regulated for stable output. Tubes: 6BH6, 6AK6; 6X4 rectifier, 0A2 voltage regulator. Supplied complete with all parts, tubes, wire, solder, and step-by-step instructions. Gray and blue steel cabinet, 6x6x8³/₄". For operation from 110-125 volts, 50-60 cycle AC. Shpg. wt., 11 lbs.

83 Y 725. NET.....29.50

Here's a low-cost 50-watt transmitter kit that features high-quality transmitting components throughout. Uses the popular 807 tube in the final, ceramic coil forms and double-spaced tank capacitor. Heavy, copper-finish chassis aids TVI suppression. Ideal as a "first rig" for the Novice because assembly is simplicity itself. Excellent, too, as a low-power standby rig for the advanced Amateur. The Knight-Kit transmitter kit is a completely self-contained, bandswitching CW transmitter that can be operated crystal-controlled or with a VFO such as the Knight-Kit VFO at left.

OUTSTANDING CIRCUIT. Features a 6AG7 as a modified-Pierce tuned-plate oscillator-multiplier when crystals are used; as a buffer-multiplier when used with a VFO. 50 watts input to an 807 final. 5U4G rectifier. Transmitter is completely shielded in rugged metal cabinet for TVI suppression. Firm metal-to-metal seals are provided at all junctions. Filtering and bypassing of AC, keying, meter and heater circuits are provided. Pi-section antenna output permits operation with any type of antenna. Matches antenna impedances from 50 to 2000 ohms. Eliminates need for external type of antenna tuner. Other features include: bandswitching on all bands; cathode keying of oscillator and final; metering of final plate and grid circuits; provisions for external modulator; power socket for supplying 6.3 volts AC and B+ to accessories. In addition to the final plate and grid current meter, the front panel includes the following controls: Oscillator Tuning; Antenna Loading; Grid-Plate Meter switch; and Off-On switch. Key jack, VFO and crystal sockets are also on front panel.

Kit is supplied complete with all parts, tubes, wire and solder. Assembly is simple with the step-by-step instructions included. Less crystal and key. 8¹/₂x10¹/₂x8³/₄". For 110-125 v., 50-60 cycle AC. Wt., 18 lbs.

83 YX 255. NET.....38.95



knight-kit Z-Bridge Kit

NET
\$5⁸⁵

- For Measuring SWR
- Reads Antenna Impedance
- Coax Input, Output

An invaluable aid for achieving peak antenna efficiency. Eliminates guesswork—accurately measures Standing Wave Ratio (SWR) from 1 mc to 150 mc. Also for measuring impedance on frequencies up to 100 mc. Use your own VOM as a null indicator. For sharpest null indications a 5,000 ohm/v or better VOM is recommended. Has low-loss coaxial input and output connectors. Can be used with lines having impedances between 20 and 400 ohms. Two convenient jacks for metering input and bridge voltage. Accurately calibrated dial gives direct impedance reading. 1% precision resistor for calibration use and chart for converting meter reading to SWR. 2¹/₂x3¹/₂x4". With SWR chart, wire and solder. Less meter. Wt., 1¹/₂ lbs.

83 Y 253. NET.....5.85

knight-kit Transistor Code Practice Kit

NET
\$3⁹⁵

- Transistorized Circuit
- Extremely Compact
- Operates for Months On Penlight Cell

Advanced-design code practice oscillator at unusually low cost. Uses transistor circuit—powered by a single penlight cell! Amazingly low current consumption—one battery operates unit for months. 500 cps tone. Has output jacks for standard headphone tips; screw type terminals for key. Housed in bakelite case with aluminum panel. With all parts, battery, wire, solder, and instructions. Less phones, key. 2³/₈x3³/₄x1¹/₂". Shpg. wt., 1 lb.

83 Y 239. NET.....3.95



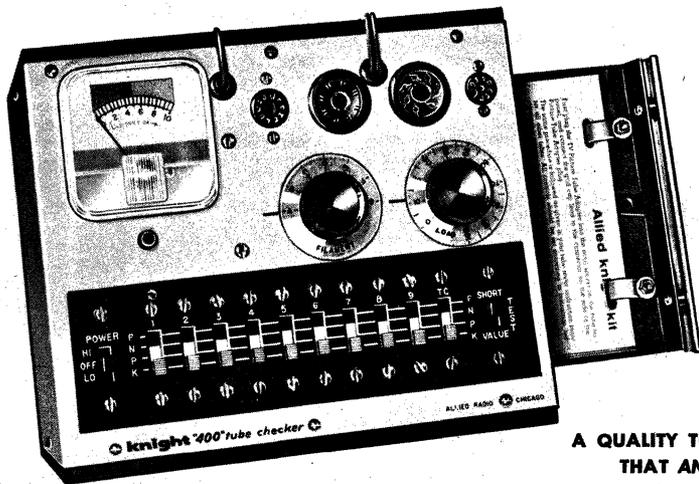
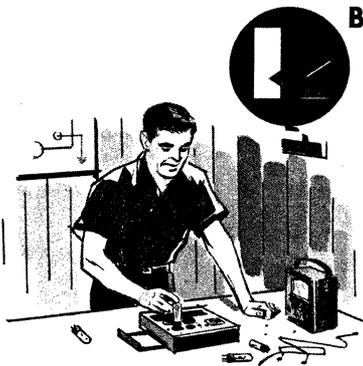
See page 389 for a complete selection of records specially prepared to teach beginners in Amateur radio to receive the code.

BUILD YOUR OWN knight-kit TEST EQUIPMENT

DO THE EASY ASSEMBLY . . . SAVE OVER 50%

MORE FOR YOUR MONEY. You get more for your money when you buy Knight-Kit test equipment kits. Highest-quality components, professionally styled cabinets and panels, many important "plus" features and genuine ease of assembly assure you of equipment equal to or better than factory-wired units costing at least twice as much! Build any Knight-Kit test instrument—you'll be proud of the results.

TOP PERFORMANCE. You can be sure of top performance and advanced design when you build Knight-Kit test equipment kits. Expert engineering, careful quality control through every stage of development, and long, rigid field testing assure you of the ultimate in reliability and operating ease. Feature for feature, Knight-Kit test instruments are equal or superior to factory-built equipment costing far more.



LOWEST COST TUBE CHECKER!

Storage Drawer Has "Flip-Cards" With Tube Data And Settings—Checks Nearly All Popular Radio-TV Tubes

Covers 400 tubes, including latest high-fidelity tube types—quickly pays for itself!

**A QUALITY TUBE CHECKER
THAT ANYONE CAN AFFORD**

NEW knight-kit "400" Tube Checker Kit—An Amazing Value!

NET
\$19⁹⁵
\$2.00 Down

- Lowest Cost Unit of Its Type
- Checks Most Receiving Tubes

- Weighs Only 5 1/4 Lbs.—Take It Anywhere!
- Unusually Neat, Compact Styling

A tremendous value in an easy-to-build, tube checking instrument, the Knight-Kit "400" Tube Checker Kit is the lowest cost unit of its type available today! It fills a real need for experimenters, hobbyists, part-time radio-TV servicemen, students, etc. Covers 400 tubes including the most commonly used hi-fi, radio and TV receiving tubes. Has sockets for 7-pin miniature, 9-pin miniature, octal and loctal-base tubes. Checks for filament continuity, shorted elements and cathode emission. Easy-to-read meter has a red-green "Replace-Good" scale, plus special scale for checking diodes. Quick-setting, universal-type selector slide switches, used in conjunction with handy "Flip-Cards", permit rapid selection of any combination of pin connections. Fast and accurate, and light in weight—the "400" is an indispensable servicing instrument!

Built-in, slide-out metal drawer, holding "Flip-Cards" in loose-leaf binding, is an integral part of the cabinet—you can't lose the tube charts! Checker includes "Hi-Lo" line-voltage compensator switch. Remarkably compact in size (only 2 3/8" high, 9 1/2" wide and 8" deep), it's perfect for carry-about use almost anywhere—the ultimate in servicing convenience! Carrying weight is only 5 1/4 pounds.

Easy-to-follow instructions permit assembly in minimum time. Sturdy metal case finished in gray, with front panel color-styled in ivory. Supplied complete with "Flip-Cards", all parts, wire and solder, easy-to-follow instructions. For operation from 110-125 v., 50-60 cycle AC. Shpg. wt., 6 1/2 lbs.
83 Y 707. NET. 19.95

knight-kit Transistor and Diode Checker Kit



NET
\$8.50

- Checks Transistor Gain Ratio
- Checks Germanium and Silicon Diodes & Selenium Rectifiers

The ever-increasing use of transistors and diodes makes this versatile checker an extremely valuable instrument for radio-TV servicemen, experimenters, engineers, etc. Also useful for continuity and short checks.

Checks leakage-to-gain ratio and noise level of all types of transistors; checks forward and reverse current of germanium and silicon diodes, and selenium rectifiers. Spring-return leakage-gain switch; separate sockets for PNP and NPN transistors. 5x3x2". With battery. Shpg. wt., 2 1/2 lbs.
83 Y 149. NET. 8.50

knight-kit Printed-Circuit VTVM Kit

\$25⁷⁵

Only \$2.58 Down

- 200- μ a Movement, 4 1/2" Meter
- Reads AC Peak-to-Peak
- Balanced-Bridge, Push-Pull Circuit
- 1% Film-Type Resistors

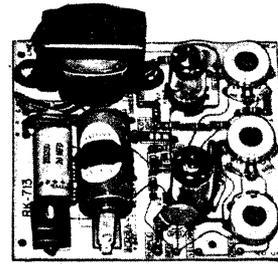
Here's a top buy in an extremely stable and highly accurate VTVM. Wiring and assembly are greatly simplified—the entire chassis is a printed circuit board. Performance is equal to factory-wired instruments costing much more. An outstanding choice for radio-TV service shop, lab, amateur use, etc. Uses low-leakage type switches; film-type, 1% precision resistors. Balanced-bridge, push-pull circuit permits switching to any range without re-adjusting zero set. Has zero-center scale and direct-reading db scale; polarity reversing switch. 4 1/2" meter with sensitive 200-microamp movement.

SPECIFICATIONS: *Input Resistance:* 11 megs. *DC and AC rms volts:* 0-1.5-5-15-50-150-500-1500. *AC Peak to Peak Volts:* 0-4-14-40-140-400-1400-4000. *Resistance:* 0-1000-10K-100K ohms; 1-10-100-1000 megohms. *Decibels:* -10 to +5. *Response:* 30 cycles to 3 mc.

Supplied complete with tubes, blue case, gray front panel, battery, all parts, pre-cut wire, solder, test leads and easy-to-follow instructions. Size, 7 3/4" high, 5 1/4" wide, 4 3/16" deep. For operation from 110-125 v., 60 cycle AC. Shpg. wt., 6 lbs.

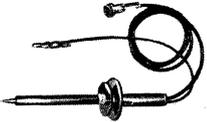
83 Y 125. NET.....25.75

YOU GET THE MOST FOR YOUR MONEY IN knight-kit TEST INSTRUMENTS



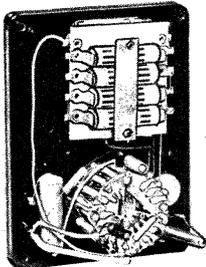
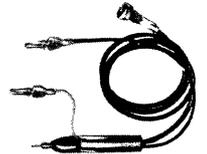
The chassis is a printed circuit board—wiring time is reduced to a minimum. VTVM is enclosed in a handsome blue metal case with gray front panel.

ACCESSORY PROBE KITS FOR knight-kit VTVM



HIGH-VOLTAGE PROBE KIT. Extends DC voltage range to 50,000 v. Shpg. wt., 1 1/2 lbs.
83 Y 126. NET.....4.75

HIGH-FREQUENCY PROBE KIT. Extends AC range of VTVM to 250 mc. Shpg. wt., 1 1/2 lbs.
83 Y 127. NET.....3.45



Single range-function switch speeds assembly and simplifies operation.



knight-kit 20,000 Ohms/Volt VOM Kit

\$29⁵⁰

Only \$2.95 Down

- Versatile, 32-Range Instrument
- 1% Precision Resistors
- Single Range-Function Switch
- 4 1/2" 50- μ a Meter—2% Accuracy

This Knight-Kit VOM offers outstanding quality and performance. Carefully engineered circuit employs 1% precision multipliers. Has 4 1/2" meter; movement accurate within 2% of full scale deflection. 50-microamp meter sensitivity provides 20,000 ohms-per-volt input resistance on DC to assure accurate measurements in critical circuits. Front panel "zero adjust" control. Single switch for selection of function and range.

SPECIFICATIONS. Ranges: AC, DC and output volts, 0-2.5-10-50-250-1000-5000; Resistance, 0-2000-200,000 ohms and 0-20 megohms; DC ma, 0.1-10-100; DC amps, 0-1-10; Decibels, -30 to +63 in six ranges. Black bakelite case, 6 3/4 x 5 1/4 x 3 3/4". With all parts, test leads, batteries, wire and solder. Shpg. wt., 5 lbs.

83 Y 140. NET.....29.50

knight-kit 1000 Ohms/Volt VOM Kit

NET
\$16⁹⁵

- 12-Pos. Range Switch; 38 Ranges
- Employs 1% Precision Resistors
- Versatile and Accurate Instrument
- 400-microamp, 4 1/2" Meter

Another great value in an easy-to-build Knight-Kit instrument kit! This 38-range VOM kit provides exceptional accuracy. Separate scales for AC and DC voltage and current, decibels and resistance. 1% precision resistors. 3-position function switch and 12-position range switch. 4 1/2" 400-microamp meter.

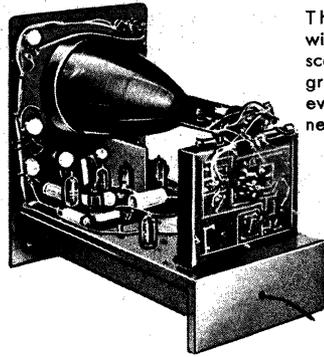
SPECIFICATIONS. Ranges: AC, DC and output volts, 0-1-5-10-50-100-500-5000 (with sensitivity of 1000 ohms-per-volt); Resistance, 0-1000-100,000 ohms and 0-1 megohm (center scale readings of 60, 150 and 1500 ohms); Current, AC or DC, 0-1-10-100 ma and 0-1 amp; Decibels, from -20 to +69 in six ranges. Black bakelite case, 6 3/4 x 5 1/4 x 3 3/4". With battery, test leads, wire and solder. Shpg. wt., 2 1/2 lbs.

83 Y 128. NET.....16.95

LOW-COST knight-kit SCOPES



Knight-Kit scopes feature printed circuit boards and laced wiring harnesses for quick, easy assembly.



The Knight-Kit wide-band oscilloscope is now a greater value than ever—offered at a new low price!

knight-kit 5" Wide-Band Oscilloscope Kit

NET
\$65⁷⁵
\$6.58 Down

- Printed Circuit Boards Speed Assembly
- 5-mc Bandwidth For Color TV Servicing
- High Vertical Sensitivity—25 mv/inch
- Sweep Range of 15 cps to 600 kc
- Push-Pull V and H Amplifiers

A bigger value than ever—gives you more for your money than any other wide-band scope kit in the country. Its performance is equal to or better than commercially wired oscilloscopes costing far more.

Wiring this fine instrument is simplicity itself—two printed circuit boards and a wiring harness cut assembly time to a minimum by eliminating much of the circuit wiring. Features extremely wide sweep range, wide response and very high sensitivity. An ideal unit for color TV servicing and hundreds of other high-frequency applications in laboratories, shops and factories.

Push-pull vertical and horizontal amplifiers with cathode-follower inputs assure minimum circuit loading and almost zero wave-form distortion. 2nd anode voltage of 1400 volts provides a high-intensity trace. Excellent synchronization on complex waveforms is achieved by positive and negative locking. Scope gives faithful square wave response.

Includes many features for extreme versatility. Has frequency-compensated input attenuator, one volt peak-to-peak calibrating voltage and internal astigmatism control. Z-axis input permits intensity modulation of trace. Directly coupled positioning controls permit overshoot-free trace positioning. Retrace lines are effectively eliminated by blanking circuit.

SPECIFICATIONS: *Vertical Response:* ± 3 db, 5 cps to 5 mc; only 1 db down at 3.58-mc color burst frequency. *Vertical Sensitivity:* 0.025 rms v/inch. *Input Impedance:* 2.9 megs and 20 mmf. *Horizontal Amplifier:* 0.6 rms v/inch; response down only 3 db at 600 kc, 4 db at 1 mc; 15-600,000 cps sweep range. Locks in as high as 9 mc.

Complete with all parts, 5UP1 CRT, punched chassis, case, wire and solder. 14 $\frac{1}{2}$ x9 $\frac{1}{2}$ x16". Includes step-by-step instructions and giant-size diagrams. For 110-125 v., 50-60 cycle AC. Shpg. wt., 40 lbs.
83 YU 144. NET 65.75

knight-kit Voltage Calibrator Kit

NET
\$12⁷⁵

This easy-to-assemble calibrator permits using any scope as a precision peak-to-peak AC voltmeter—tremendously increases scope versatility. Puts a true square-wave voltage on scope screen. Has range switch and calibrated potentiometer to permit selecting any voltage between .01 and 100 volts, in 4 ranges. Fifth position of range switch feeds external signal directly to scope for comparison. Voltage regulator keeps output voltage constant with a power line variation from 80 to 135 volts. Accuracy of $\pm 6\%$ on all ranges. Shunt capacitance is only 15 mmf. Direct coupling of output provides ground reference for DC scopes. Size, 7 $\frac{3}{4}$ x5 $\frac{1}{4}$ x4 $\frac{3}{16}$ ". Complete with all parts; pre-cut wire; solder; giant-size pictorial diagrams; schematics; and easy-to-follow instructions. For 110-125 volts, 50-60 cycle AC. Shpg. wt., 5 lbs.
83 Y 136. NET 12.75



knight-kit RF Demodulator Probe Kit



Use with Knight-Kit oscilloscopes to permit observation of modulation envelopes of RF and IF signals—extends scope range to 250 mc. With all parts, cable, solder, instructions. Wt., 2 lbs.
83 Y 148. NET 3.45

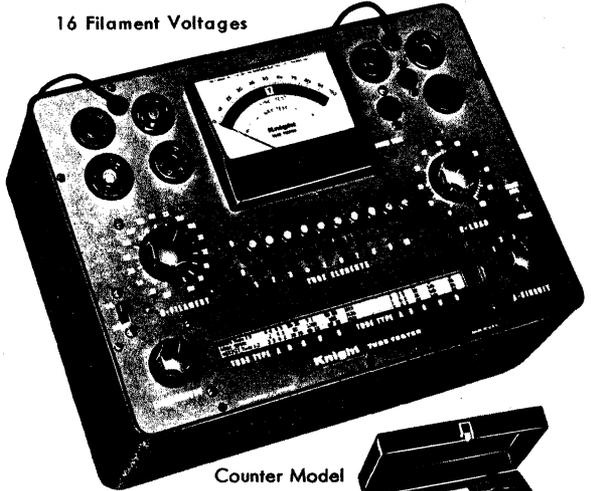
knight-kit Low-Capacity Probe Kit



For use with Knight-Kit oscilloscopes when observing audio, video, sweep or sync signals. Prevents overload and distortion of signal, 12 mmf input. With solder, all parts, cable. Wt., 2 lbs.
83 Y 147. NET 3.45

VERSATILE, TOP-VALUE TUBE TESTER

16 Filament Voltages



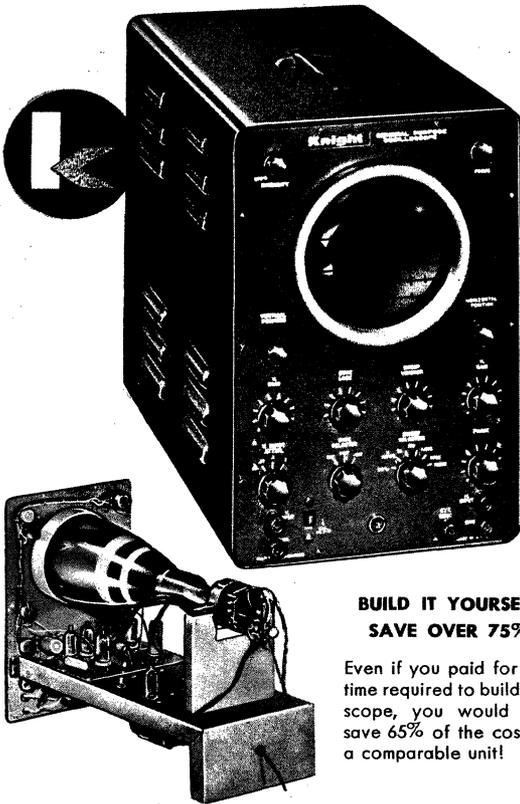
Counter Model



Install one-piece, preassembled switch bank in minutes.



Portable Model



**BUILD IT YOURSELF
SAVE OVER 75%**

Even if you paid for the time required to build this scope, you would still save 65% of the cost of a comparable unit!

knight-kit 5" General-Purpose Scope Kit

NET
\$42⁰⁰
\$4.20 Down

- Phantastron Linear Sweep Generator
- Time-Saving Printed Circuit Board
- Excellent V Sensitivity—25 mv/inch
- Retrace Blanking on all Ranges

Feature for feature the world's best oscilloscope kit value. This 5" general-purpose scope delivers performance equal to or better than factory-wired units several times its price—defies comparison with other scope kits at anywhere near its price. The ideal choice for radio-TV servicing, audio work and hundreds of other uses—meets at least 90% of all oscilloscope requirements.

Up-to-the-minute circuit design featuring a printed circuit wiring board and a laced wiring harness to reduce wiring to a minimum. Directly coupled positioning controls assure fast positioning of trace—free of overshoot.

Other important features include: blanking circuit to eliminate retrace lines on all ranges; frequency-compensated vertical input attenuator; internal and external, positive and negative synchronization; Phantastron linear sweep generator; and high 2nd-anode voltage for high-intensity trace. Vertical sensitivity is 3 times that of any other similarly priced scope kit available.

SPECIFICATIONS: *Vertical Response:* ±3 db, 3 cps to 1.5 mc; ±6 db to 2.5 mc. *Vertical Sensitivity:* .025 rms v/inch. *Sweep:* 15-150,000 cps in 4 ranges. *Horizontal Sensitivity:* .07 rms v/inch; response of horizontal amplifier is down only 3 db at 200 kc (1000 cycle reference). *Vertical Input Impedance:* 3.3 megs shunted by 45 mmf. *Calibrating Voltage:* 1-volt peak-to-peak, square wave (voltage regulated)—applied by spring-return slide switch.

Supplied complete with all parts, CRT, punched chassis, case, wire and solder. Includes step-by-step instructions and giant-size diagrams. 9½x13¾x17¾". For 110-125 v., 50-60 cycle AC. Shpg. wt., 40 lbs.

83 YU 146. NET 42.00

knight-kit Low-Cost Tube Checker Kit

Counter Model

\$29⁷⁵

\$2.98 Down

- Large "Good-?-Replace" Meter
- Tests Series-String TV Tubes
- 600 Tube Types Listed
- Designed to Stay Up-To-Date

This expertly designed, up-to-date tube tester kit is an unusually fine choice for the serviceman or experimenter. Tests 4, 5, 6 and 7-pin large, regular and miniature tubes, octals, loctals, 9-pin miniatures and pilot lamps, including series-string AC-DC and TV types. Tube performance is measured by the amount of cathode emission. Easy-to-read 4½" meter has three-color "GOOD-?-REPLACE" scale. Also tests for shorts, open elements and cathode-to-filament leakage.

Provides continuity check for other components, electrical appliances, motors, etc. Has line-voltage indicator and line-adjust control to compensate for line voltage variations; may be adjusted from the front panel—assures greater test accuracy and correct voltage for each tube test. Choice of 16 filament voltages from 0.63 to 117 volts to check virtually all receiving tubes.

Special circuit features assure years of dependable service without obsolescence. Blank panel socket accommodates future tube types. Universal-type selector switches permit setting up for any new tube pin connections without wiring changes. Single-unit, pre-assembled 10-lever function switch simplifies and speeds assembly. Illuminated roll chart lists 600 tube types. With all parts, wire and solder. 5x14x10". For 110-125 v., 50-60 cycle AC. Shpg. wt., 14 lbs.

83 YX 143. NET 29.75

PORTABLE MODEL TUBE CHECKER KIT. With covered plywood case; 6½x14½x10½". Shpg. wt., 15 lbs.

83 YX 142. *Only \$3.48 Down.* NET 34.75



TV PICTURE TUBE ADAPTER. Valuable service aid—ready to use. Permits testing TV picture tubes with Knight-Kit Tube Checker. Shpg. wt., 1 lb.

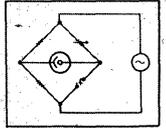
83 Y 141. NET 4.25

knight-kit TEST INSTRUMENTS ARE YOUR BEST BUYS



**Widest-Range
Flyback Checker
Kit Available**

Permits TV technicians to determine the condition of flyback transformers and deflection yokes.



Measurements are made by the laboratory-type balanced bridge method!

Low-Cost knight-kit Flyback Checker Kit

knight-kit Resistor-Capacitor Tester Kit

\$19⁵⁰

\$2.00 Down

- Widest Range In Its Field
- Exceptional Accuracy
- Large 4 1/2-Inch Meter
- Invaluable For TV Servicing

\$19⁵⁰

\$2.00 Down

- Shows Capacitance, Resistance
- Indicates Power Factor
- Balanced-Bridge Circuit
- Tests Capacitors at Rated Voltage

Race through TV deflection circuit repairs—for bigger-than-ever servicing profits—with the Knight-Kit Flyback and Yoke tester! Use it to check instantly on the condition of all types of horizontal output transformers and deflection yokes, as well as linearity and width coils in TV sets. Provides an accurate check of any standard unit. Positively indicates the presence of shorted turns for any coil with a "Q" greater than 1, and an inductance between .003 henry and 2 henries. Determines the continuity of any circuit with a resistance between 0 and .5 megohms. Checks a wider range of inductances than any other similar unit! 4 1/2-inch meter with 400 microamp movement provides clear readings and high accuracy. Circuit uses 6S4A tube in pulsed oscillator arrangement. Self-contained power supply is of isolation transformer type, for full safety during servicing of any type of TV set. Durable metal case, 7 3/4 x 5 5/8 x 5", has leather handle. Supplied complete with all parts, test leads, solder, wire, 6S4A tube, step-by-step instructions, etc. For operation from 110-125 v., 50-60 cycle AC. Shpg. wt., 6 lbs.

An extremely useful instrument—skillfully engineered for top-notch performance in the service shop and laboratory. Measures resistance and capacitance by the highly dependable bridge method; checks for opens and shorts in paper, mica and ceramic capacitors; and indicates the power factor of electrolytics. Its large, easy-to-read dial, used in conjunction with the "magic eye" null indicator, shows resistance and capacitance at a glance. The "magic eye" is also used in testing for opens, shorts, intermittents, and in checking power factor. Capacitors are tested at actual working voltages.

SPECIFICATIONS. *Test Voltages:* 50, 150, 250, 350 and 450 volts. *Capacity Ranges:* 10 mmf to .005 mfd, .001 to 0.5 mfd, 1 to 50 mfd, and 20 to 1000 mfd. *Resistance Ranges:* 100 to 50,000 ohms and 10,000 ohms to 5 megohms. *Accuracy:* ±10%. *Power Factor Range:* 0-50%. Uses 6E5 "magic eye"; also has 6X4 rectifier. In portable metal case with blue-wrinkle finish. Size, 7x10x5". With tubes, solder, pre-cut wire and instructions. For operation from 110-125 volts, 50-60 cycle AC. Shpg. wt. 10 lbs.

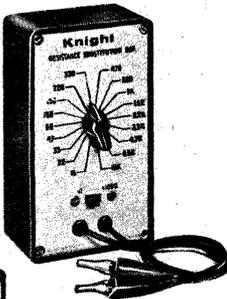
83 Y 118. NET.....19.50

83 Y 124. NET.....19.50

knight-kit Resistance Substitution Box Kit

Rotary switch permits rapid setting to exact value needed.

EACH UNIT INCLUDES LEADS

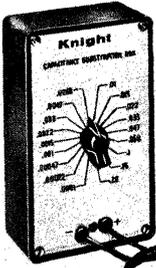


NET
\$5⁹⁵

Find the correct resistance value required in a circuit—in minutes—with this convenient resistance substitution box. Saves time in radio and TV servicing as well as in equipment design. Low resistance range: 15 ohms to 10K. High resistance range: 15K to 10 megohms. Slide switch selects either range. Accuracy is within ±10%. 18-position rotary switch permits rapid setting to exact value needed. Switch has extra wafer to simplify wiring. All parts mount in compact case of bakelite with clearly calibrated aluminum panel; size, 5x3x2". With all parts, 18" leads, insulated alligator clips, solder, wire and instructions. Shpg. wt., 2 lbs.

83 Y 139. NET.....5.95

knight-kit Capacitance Substitution Box Kit



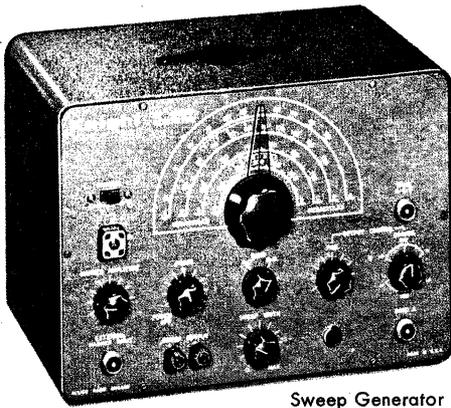
Has 18 standard capacitor values from .0001 mfd to .22 mfd.

NET
\$5⁹⁵

Cuts time and effort in finding correct values for replacement of badly damaged, illegible capacitors. Substitutes a wide range of RETMA values. Ideal for laboratory and service shop. Has 18 standard capacitor values from .0001 mfd to .22 mfd. Accuracy of ±20%. All values are 600 volts, except .15 and .22 which are 400 volts. An 18-position switch permits fast, convenient selection of values. In sturdy bakelite case with attractive anodized aluminum panel. Size, 5x3x2". Kit is supplied complete with all parts, 18" leads, insulated alligator clips, solder, wire and step-by-step instructions. Shpg. wt., 2 lbs.

83 Y 138. NET.....5.95

EASY TO ASSEMBLE . . . TOP-QUALITY INSTRUMENTS



Sweep Generator

Equal to units costing up to twice as much!



Signal Generator

A top-quality instrument at only one-third the cost of similar wired units!

knight-kit TV-FM Linear Sweep Generator

\$44⁹⁵

- Extreme Linearity
- Fundamentals to 250 mc
- Output Flat Within 1 db
- Electronic Blanking

\$4.50 Down

An outstanding, low-cost instrument for TV and FM alignment—provides sweep linearity on a par with costly laboratory instruments. Covers 300 kc to 250 mc on fundamentals. Delivers up to 0.15 v. and has coarse and fine attenuators for precise output adjustment. The skillfully engineered sweep circuit provides output which is constant within 1 db over the swept range, on all bands. Step-down dial drive mechanism gives smooth-as-velvet tuning action. Large, clearly calibrated dial is easy to read on all ranges. Circuit utilizes electronic retrace blanking, and a highly effective automatic gain control to keep output voltage constant over swept range. Sweep width is continuously variable from 0 (no sweep) to full 13 megacycles. Built-in crystal marker and input for external marker—built-in and external marker can be mixed. The Knight-Kit signal generator (at right) is an excellent variable marker for use with this unit. With all parts, tubes, pre-cut wire, test cable, solder, and instructions. Less crystal (below). 8½x12x7½". For 110-125 v., 60 cycle AC. Shpg. wt., 16 lbs.

83 YX 123. NET.....	44.95
99 Y 286. 4.5-mc Crystal. NET.....	4.80
99 Y 143. 5.0-mc Crystal. NET.....	3.95
99 Y 145. 10.7-mc Crystal. NET.....	3.95

knight-kit RF Signal Generator Kit

\$19⁷⁵

- Precision-Wound Coils
- No Calibration Required
- Modulated or Unmodulated Output
- 400-Cycle Sine Wave Output

\$2.00 Down

Build this wide-range, extremely stable RF signal generator and save two-thirds the cost of a comparable wired instrument. You can quickly build it without difficulty; easy, fully illustrated Knight-Kit instructions enable you to get the job done in the least amount of time. The large, semi-circular dial is calibrated clearly; the signal generator's range is covered in five separate bands, permitting close accuracy in the setting of individual frequencies. You'll find that it's an ideal instrument for alignment of RF and IF stages in radio and TV sets, and for trouble-shooting audio equipment. Also serves as a TV marker generator when used with sweep generator listed at left. Delivers output on fundamentals from 160 kc all the way out to 112 mc; provides useful harmonic output to 224 mc. Output can be modulated at 400 cycles—has built-in sine-wave audio oscillator with output jack for 400-cycle output. Features the high-stability Colpitts circuit. Convenient jack for external modulation. Maximum audio output 10 volts. RF output, over 0.1 volt on all ranges. Step and continuous-type attenuator controls permit precise adjustment of output. With all parts, tubes, wire, solder and instructions. 7x10x5". For operation from 110-125 volts, 50-60 cycle AC. Shpg. wt. 11 lbs.

83 Y 145. NET..... 19.75

knight-kit 6V-12V Battery Eliminator

\$32⁹⁵

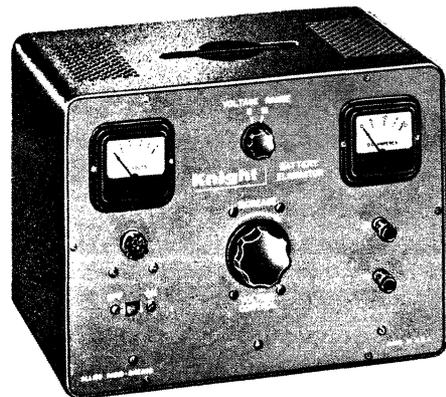
- Most Power Per Dollar!
- Continuously Variable Output Voltage
- Delivers 15A at 6V—10A at 12V
- May Be Used as Battery Charger

\$3.30 Down

This heavy-duty DC power supply is ideal for testing auto radios, as well as Amateur and commercial mobile radio equipment. Continuously variable output from 0 to 15 volts at higher current than any similarly priced battery eliminator kit. Handles current requirements of any 6 or 12-volt radio. Dual filter for low-ripple output. Can be used to charge any 6 or 12-volt battery overnight. Low in price—high in performance—the Knight-Kit battery eliminator is a test and service instrument that will quickly pay for itself.

Provides DC output at 0-8 volts or 0-15 volts. Continuous current rating: 15 amps at 6 volts, 10 amps at 12 volts. Intermittent current rating: 17.5 amps at 6 volts, 12.5 amps at 12 volts. Two meters provide current and voltage readings. Meter ranges: 0-15 volts DC; 0-20 amps DC. Portable metal case with blue-wrinkle finish and disappearing handle. 9x12½x7¾". With all parts, wire, solder and instructions. For 110-125 v., 50-60 cycle AC. Shpg. wt. 18 lbs.

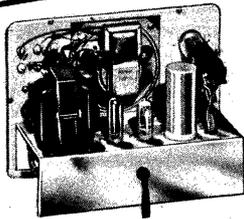
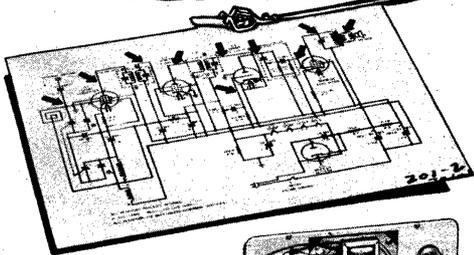
83 YX 129. NET..... 32.95



Make short work of auto radio servicing with this high-current unit! Powers any 6 or 12 v. radio. Also great for mobile gear!

Allied's Famous Knight-Kits Cost You Less—Serve You Better

YOU SAVE MOST ON EASIEST-TO-BUILD **knight-kits**



For extremely fast, convenient signal tracing by aural and visual methods—traces IF, RF, video and audio circuits. Exceptionally high amplification. Gain of 91,000—highest in its price class.

knight-kit High-Gain Signal Tracer Kit

\$26⁵⁰

\$2.65 Down

- Usable Gain of 91,000
- Built-in, Calibrated Wattmeter
- Measures Stage Gain
- Reveals "Dead" Stage

For speedier servicing and bigger profits, use the Knight-Kit high-gain signal tracer. This easy-to-build, extremely worthwhile unit will save you work and trim valuable time from hundreds of servicing jobs—once you've used this outstanding trouble-shooting instrument, you'll wonder how you ever got along without it.

It's ideal for servicing radios, TV sets and amplifiers—checks RF, IF, video and audio circuits. Employs pentode front-end for remarkably high amplification—has gain of 91,000—the highest in its price class. "Magic Eye" tube with calibrated attenuators clearly indicate signal presence and permit stage-by-stage gain measurements all the way from the antenna to the speaker. Only 6 mmf input capacitance. In addition to "Magic Eye" indicator, tracer has 4" speaker to permit audible signal tracing or use as a general-purpose audio amplifier. 2-position RF-AF probe supplied permits complete testing versatility; one position of probe is for checking RF, IF and video stages; other position is for checking audio-frequency stages.

Noise test—applies DC to volume controls for amplification of noise characteristic. Built-in wattmeter is calibrated from 25 to 1000 watts—wider range than any other kit. Has provision for external oscilloscope or VTVM. Binding posts provide 280 v. B+ for external uses; permit easy output transformer or speaker check in audio amplifiers. Attractively finished blue wrinkle case has contrasting gray panel. Size, 7x10x5". With disappearing carrying handle. With all parts, tubes, probe, pre-cut wire and solder, instructions, pictorial and schematic diagrams. Tubes: 6AU6 high-gain amplifier, 6AV6 amplifier and wattmeter rectifier, 6V6GT power amplifier; 6E5 "magic eye"; 6X4 rectifier. For 110-125 volts, 50-60 cycle AC. Shpg. wt. 12 lbs. 83 Y 135. NET. 26.50



FOR PRECISE TESTING OF AUDIO EQUIPMENT

knight-kit Audio Generator Kit

\$32⁹⁵

\$3.30 Down

- Latest Circuit Design
- Less Than 0.25% Distortion
- 600-Ohm Output Impedance
- Range: 20 cps to 1 mc.

The Knight-Kit audio generator kit features an up-to-date circuit developed by the U.S. Bureau of Standards. Its excellent specifications and low cost make it ideal for precise testing of high-fidelity amplifiers, tone control circuits and speakers, or for other applications requiring calibrated, continuously variable audio signals. Performance equals or surpasses far costlier factory-built units. Operates into high impedance or 600-ohm standard broadcast line. Low distortion even at high output into either high-impedance or 600 ohms.

SPECIFICATIONS: Uses 6CB6 Bridge-T type R-C oscillator. *Frequency Range:* 20 cps to 1 mc in 5 ranges. *Output Voltage:* 10 v., ±1 db to 1 mc. *Output Impedance:* 600 ohms. *Distortion:* less than 0.25% from 100 cps through the audible range into high impedance; less than 0.5% when driving 600 ohm load at maximum output.

Supplied complete with all parts, tubes (6CB6, 2-6CL6; 5Y3GT rectifier), pre-cut wire, solder and step-by-step instructions plus pictorial and schematic diagrams. Attractive blue metal case, 8½x11x7½", with light gray front panel. For operation from 110-125 v., 50-60 cycle AC. Shpg. wt., 16 lbs. 83 YX 137. NET. 32.95

knight-kit MONEY-BACK GUARANTEE

Your purchase price is refunded in full if your Knight-Kit does not meet our published specifications for performance.

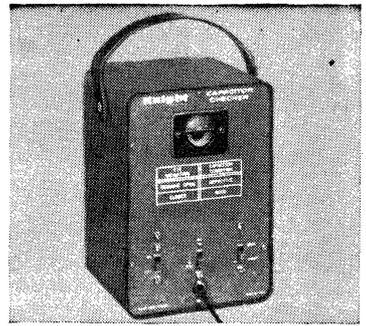
knight-kit "In-Circuit" Capacitor Checker Kit

NET
\$1250

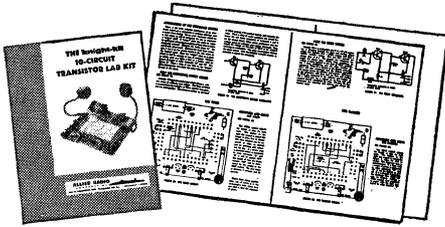
- "In-Circuit" Checking
- "Magic-Eye" Indicator
- 20 mmf to 2000 mfd

An invaluable aid to speedy servicing—at only one-third the cost of factory-wired units! Feature for feature, the world's finest economy-priced capacitor checker kit. Has widest range—20 mmf to 2000 mfd—through use of exclusive resonant circuit that tunes out test cable capacitance. Tests capacitors while they are wired in the circuit.

The "magic-eye" indicator shows opens and shorts (not leakage). Checks by-pass, blocking, coupling and filter capacitors. Tests opens and shorts on any capacitor of 20 mmf or over—even if capacitor is in parallel with a resistance as low as 50 ohms! Supplied complete with tubes, wire, solder and easy-to-follow instructions. 7 3/4 x 5 1/4 x 5". Blue and gray finish. For 110-125 v., 50-60 cycle AC. Shpg. wt., 5 lbs.
83 Y 119. NET 12.50



See the Proof of knight-kit Superiority—Examine Our Instruction Manuals



CHECK THE DESIGN AND QUALITY FOR YOURSELF

ONLY 10c and 20c Here's the finest way to check the quality of Knight-Kits at the least expense to yourself. These complete and easy-to-follow instruction manuals are the very same that are provided with Knight-Kit electronic kits. No wiring experience or knowledge of schematics is necessary to follow these manuals, and they offer you an inexpensive preview of any kit. Contain full construction details, construction notes, technical hints, operating data, parts lists and comprehensive schematic and pictorial diagrams. Read one—then judge for yourself!

- 38 K 166. RF Signal Generator.
 - 38 K 183. VOM; 1,000 ohms-per-volt.
 - 38 K 099. Scope Voltage Calibrator.
 - 38 K 148. Capacitance Substitution Box.
 - 38 K 147. Resistance Substitution Box.
 - 38 K 199. Transistor Checker.
 - 38 K 184. Resistance-Capacitance Tester.
 - 38 K 188. In-Circuit Capacitor Checker.
 - 38 K 928. Flyback Checker.
 - 38 K 185. Vacuum-Tube Voltmeter.
 - 38 K 197. 2-Station Intercom.
 - 37 K 289. New "12-in-1" Lab.
 - 38 K 295. 10-Circuit Transistor Lab.
 - 38 K 050. Crystal Set.
 - 38 K 936. 2-Transistor Pocket Radio.
 - 38 K 943. "Trans-Midge" 1-Transistor Radio.
 - 38 K 195. Printed Circuit 1-Transistor Radio.
 - 38 K 934. Photoelectronic Relay.
 - 38 K 935. Light Source.
 - 38 K 198. Impedance and SWR Bridge.
 - 38 K 296. 100-kc Crystal Calibrator.
 - 38 K 146. Transistor Code Practice Oscillator.
 - 38 K 161. "Ocean Hopper" Receiver.
 - 38 K 297. New Wireless Broadcaster/Amplifier.
 - 37 K 290. New "Ranger III" Table Radio.
 - 37 K 294. New Economy "400" Tube Tester.
 - 37 K 299. New "Ranger" Radio Intercom.
 - 37 K 291. New Printed Circuit "Ranger III" AC-DC Radio.
- ANY MANUAL ABOVE. Postpaid in U.S.A. EACH..... 10c

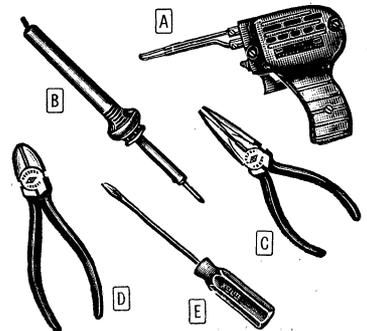
- 38 K 187. 2-Band "Space Spanner" Receiver.
 - 37 K 292. New 12-Watt Hi-Fi Amplifier.
 - 38 K 871. New Stereo Control.
- ANY MANUAL ABOVE. Postpaid in U.S.A. EACH..... 10c
- 37 K 293. New "Ranger" Clock Radio.
 - 38 K 298. New 4-Band "Span-Master" Receiver.
 - 38 K 096. Electronic Photoflash.
 - 38 K 942. 5-Transistor Superhet Radio.
 - 38 K 165. Deluxe Tube Tester.
 - 38 K 168. VOM; 20,000 ohms-per-volt.
 - 38 K 098. 6-12 Volt Battery Eliminator.
 - 38 K 169. Audio Generator.
 - 38 K 170. TV-FM Sweep Generator.
 - 38 K 170. Signal Tracer.
 - 38 K 167. 5" Wide Band Oscilloscope.
 - 38 K 097. 5" General-Purpose Oscilloscope.
 - 38 K 944. Amateur Communications Receiver.
 - 38 K 180. Amateur Variable Frequency Oscillator.
 - 38 K 095. Amateur 50-Watt CW Transmitter.
 - 38 K 937. Hi-Fi Monaural Preamplifier.
 - 38 K 939. 30-Watt Hi-Fi Amplifier.
 - 37 K 298. New 25-Watt Basic Hi-Fi Amplifier.
 - 38 K 299. 18-Watt Hi-Fi Amplifier.
 - 38 K 941. Hi-Fi FM-AM Tuner.
 - 38 K 126. Hi-Fi FM Tuner.
 - 37 K 295. New Hi-Fi Stereo Preamplifier.
 - 37 K 296. New 60-Watt Basic Stereo Hi-Fi Amplifier.
- ANY MANUAL ABOVE. Postpaid in U.S.A. EACH..... 20c

knight-kits ARE A PRODUCT OF ALLIED RADIO

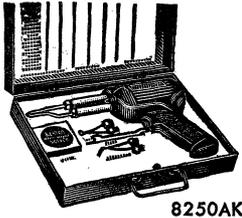


Money-Saving Values in Essential Tools for Kit Builders

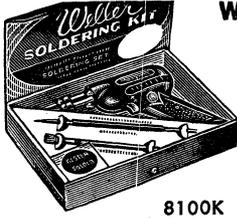
- A** WEN MODEL 199 SOLDER GUN. Efficient, lightweight, 130-watt soldering gun. Long-life, steel-nose tip. Heats in 2 1/2 sec. For 110-120 v., 60 cycle AC. Wt., 2 1/4 lbs.
46 N 358. NET 5.83
- B** WALL MODEL 14T SOLDER IRON. Pencil-type; perfect for close work on printed circuit boards. Thermostatic action—heating range from 40 to 125 watts. For 110-120 v., AC or DC. Shpg. wt. 7 oz.
46 N 852. NET 5.16
- C** KNIGHT 6" PLIERS. Long-nose, side-cutting pliers. 10 oz.
50 N 132. NET 1.54
- D** KNIGHT 5" DIAGONAL CUTTERS. Excellent value. Economy-priced, ruggedly built diagonal cutters. Forged from high-quality carbon steel; tempered and tested. Has semi-polished heads and black handles. Shpg. wt., 10 oz.
50 N 133. NET 1.34
- E** XCELITE MODEL R-146 6" SCREW-DRIVER. Made of highly polished, chrome-vanadium steel. Shaft is permanently molded into rugged Xcelite plastic handle—fluted for non-slip grip. 1/2" diameter; overall length, 10". Shpg. wt., 6 oz.
45 N 796. NET72c



Quality Soldering Tools



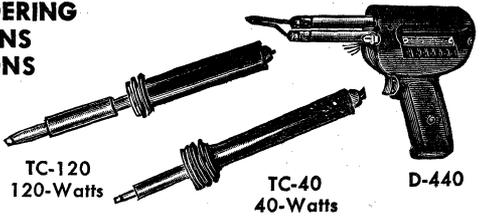
8250AK



8100K

WELLER SOLDERING KITS, GUNS AND IRONS

New Weller "Magnastat" temperature-controlled soldering irons for constant, all-day use.



TC-120
120-Watts

TC-40
40-Watts

D-440

8250AK HEAVY-DUTY KIT—250 WATTS

- Instant Heat—No Waiting
- Versatile Array of Tips

Extremely versatile heavy-duty soldering kit. Includes: Model 8250A 250-watt gun (with trigger switch control, pre-focused dual spotlights, black plastic housing); 1 coil of acid-core solder for metal work (for radio, TV or electrical work, use rosin core solder, listed on page 276); 1 chisel-point tip for general soldering; 1 smoothing tip for heat-sealing and mending plastic articles. 1 tip for cutting plastic tile and easy putty removal; and 1 wrench for quick, easy interchange of tips. With sturdy metal case, 2 1/4 x 1 1/4 x 2 1/4". For 110-120 v., 60 cycle AC. Shpg. wt., 7 1/4 lbs.

46 N 677. List, \$14.95. NET.....10.99
3 or More, EACH.....9.71

8100K MEDIUM-DUTY KIT—100 WATTS

Complete kit for medium-duty soldering. Includes: Model 8100 100-watt solder gun, soldering aid tool (for holding wire in place while soldering), solder brush (for cleaning solder joints and a coil of rosin-core solder. Gun reaches operating heat in 5 seconds; has two built-in spotlights, trigger switch. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 3 lbs.

46 N 640. List, \$7.95. NET.....5.83
3 or More, EACH.....5.19

LOW-COST MODEL 8100 GUN ONLY

Same 100-watt soldering gun as supplied in above kit. Heats in 5 seconds. Trigger switch; dual spotlights. For 110-120 v., 60 cycle AC. Shpg. wt., 2 1/4 lbs.

50 N 049. List, \$5.95. NET.....4.46
3-11, EACH....4.16 12-Up, EACH...3.97

TEMPERATURE-CONTROLLED IRONS

- Automatically Maintains Right Heat
- No Overheating—Saves Current

Advanced-design soldering irons with built-in temperature control. Automatically maintains correct soldering temperature. Model TC-40 gives controlled 40 watts for light jobs such as printed circuits, etc.; Model TC-60, 60 watts for light to medium-duty work; Model TC-120, 120 watts for medium to heavy-duty jobs. Smaller and lighter in weight than standard uncontrolled irons of the same wattage rating. For 110-120 v., 50-60 cycle AC. With plug-in cord.

Stock No.	Model No.	Watts	Shpg. Wt.	NET
50 N 211	TC-40	40	6 oz.	5.88
50 N 212	TC-60	60	7 oz.	6.62
50 N 213	TC-120	120	11 oz.	7.72

REPLACEMENT TIPS FOR ABOVE IRON

Stock No.	Model	For Iron	Tip Size	Oz.	NET
50 N 214	WT-40	TC-40	1/8"	2	3.6c
50 N 215	WT-60	TC-60	3/16"	3	5.1c
50 N 216	WT-120	TC-120	3/8"	4	8.8c

HEAVY-DUTY GUNS

MODEL 8250A 250-WATT SOLDERING GUN. Ideal for production line use, service shop, home workshop, etc. Air-cooled transformers, prefocused dual spotlights. Easily replaced tips. Rugged, high-impact plastic housing. Convenient pistol grip with trigger switch. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 4 lbs.

46 N 678. List, \$12.95. NET.....8.47

MODEL D-550—200, 275 WATTS. As above, but dual-heat type. Operates at 200 or 275 watts. Shpg. wt., 3 3/4 lbs.

46 N 641. List, \$16.25. NET.....10.53

MODEL D-440 MEDIUM-DUTY GUN

Dual-heat soldering gun. Trigger switch selects choice of 100 or 150 watt heat. Specially designed for home crafter and all hobby uses. When used with cutting and smoothing tips listed below, it performs a wide variety of household applications, including furniture repair, cutting plastic wall tile, etc. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 3 lbs.

46 N 644. List, \$12.95. NET.....8.47

VERSATILE ACCESSORY TIPS

Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Description	Use With Models	NET EACH
46 N 681	6110	Cutting	S-400, D-440, & 8100	35c
46 N 682	6120	Smoothing	S-500, D-550	35c
46 N 683	6130	Cutting	S-500, D-550	35c
46 N 684	6140	Smoothing	S-500, D-550 & 8250A	35c

CHISEL-POINT TIPS

2 per Pkg. Av. shpg. wt. per pkg., 3 oz.

Stock No.	Mfr's Type	Use With Models	PER PKG.
46 N 574	7135	8100, S-400, D-440	25c
46 N 575	7250	8250A, S-500, D-550	35c
46 N 579	7300	S-107, D-207. Not interchangeable with tips above.	25c

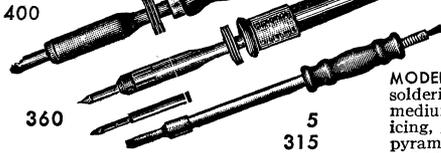
SOLDER GUN REPLACEMENT PARTS

Shpg. wt., 3 oz.

Stock No.	Mfr's Type	Description	Use With Models	NET EACH
46 N 625	7325	Tip nut.	WS-100, WD-135, S-400, D-440 and 8100	.15
46 N 630	7417	Tip nut.	WS-200, WD-250 S-500, D-550.	.15
46 N 626	7323	Switch.	All single-heat models.	1.22
46 N 627	7324	Switch.	All dual-heat models.	1.37

DRAKE GENERAL PURPOSE & INDUSTRIAL IRONS

High-Grade
Nichrome
Elements



MODEL 400 INDUSTRIAL—60 WATTS

Small, continuous-duty 60-watt iron, 9" long, 1/4" pyramid tip. Baffle plates radiate heat away from handle. With stand. For 110-120 v., AC-DC. Wt., 14 oz.

46 N 538. List, \$6.50. NET.....3.82

MODEL 360 "PEE-WEE"—35 WATTS

35-watt iron for delicate work. Supplied with 3/16", 1/8" pyramid tips and stand. Cork insulator on handle; heat radiating baffles. 7 1/2" long. For operation from 110-120 v., AC-DC. Shpg. wt., 8 oz.

46 N 532. List, \$5.50. NET.....3.23

MODEL 325 STANDARD—100 WATTS

General-purpose soldering iron. Overall length, 13". 3/8" adjustable pyramid tip. Supplied with stand. For operation from 110-120 v., AC-DC. 1 1/4 lbs.

46 N 523. List, \$6.50. NET.....3.82

ECONOMY MODELS

MODEL 5—40 WATTS. Low-cost, light-duty soldering iron. Length, 10". With 1/4" screw-on pencil tip and stand. For 110-120 v., AC-DC. Shpg. wt., 10 oz.

46 N 505. List, \$2.10. NET 1.23

MODEL 315—60 WATTS. General-purpose soldering iron. Excellent for light and medium-duty applications in radio-TV servicing, garages, etc. With screw-on type 3/8" pyramid tip and stand. Length, 11 1/2". For 110-120 v., AC-DC. Shpg. wt., 12 oz.

46 N 521. List, \$2.80. NET.....1.65

REPLACEMENT TIPS

Copper replacement tips for Drake irons. *Set of two tips.

Stock No.	Description	Wt. Oz.	For Iron	NET EACH
46 N 537	1/4" straight pencil*	3	5	44c
46 N 535	3/8" pyramid	6	225, 325, 326, 625	44c
46 N 514	3/8" pyramid	6	315	53c
46 N 533	3/16" pyramid*	2	360	18c
46 N 513	1/8" pyramid	2	400	29c
46 N 547	1/8" straight pencil*	2	350	15c
46 N 548	1/8" 45° pencil*	2	350	15c

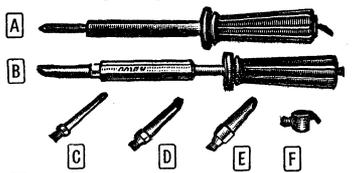
TEMPERATURE CONTROLS



Temperature controls for printed circuit and other delicate soldering. Variable from 300-600° F.

Stock No.	Model	For Iron	Oz.	List	NET
50 N 221	40	40-watt	12	\$8.00	4.70
50 N 222	60	60-watt	12	\$9.00	5.29

"KWIK-HEAT" IRONS



A MODEL 200 150-WATT THERMOSTAT-CONTROLLED SOLDERING IRON. Industrial 150-watt iron for continuous use. Quick-heating—only 90 sec. to reach full operating temperature. Built-in thermostat maintains correct temperature, delivering fast power when required or conserving heat during standby periods. Length, 12 3/4". With chisel tip. For 100-125 v., 60 cycle AC. Shpg. wt., 12 oz.

46 N 634. List, \$9.95. NET.....6.97
3 or More, EACH.....6.62

B MODEL 300 225-WATT THERMOSTAT-CONTROLLED SOLDERING IRON. As above, but 225 watts for heavy duty use. 13" long. With 3/8" chisel tip, 1 lb.

46 N 560. List, \$14.95. NET.....11.20
3 or More, EACH.....9.96

TIPS FOR MODEL 300

*For Model 200. Av. shpg. wt., 5 oz.

Stock No.	Fig.	Description	NET
46 N 561	C	Small taper point	1.35
46 N 562	D	Gradual taper point	1.39
46 N 565	E	Heavy, with chisel tip	1.46
46 N 566	F	Melting pot; holds 1 oz.	1.39
46 N 633	....	Chisel point*	.83

Soldering Guns and Irons

FAMOUS WEN SOLDERING GUNS



WEN 199K SOLDERING GUN KIT

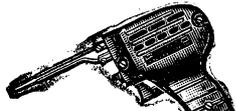
- 3 Different Tips for Varied Jobs
- Lightweight—Only 1 1/2 lbs.
- Heavy-Gauge Metal Kit Box

Highly versatile, multi-purpose solder gun kit. Includes the Model 199 130-watt gun, one 5-ft. roll of rosin-core solder, three different tips for a wide variety of jobs, plus an attractively styled heavy-gauge metal kit box. Gun reaches soldering temperature in just 2 1/2 seconds after squeezing trigger. Tips are quickly interchanged to meet specific applications.

Well-balanced, pistol-grip handle assures fatigue-free operation. Single trigger automatically controls heat and built-in spotlight. Focused spotlight assures shadow-free working area. Gun is extremely light in weight; only 1 1/2 lbs. Valuable for medium and light-duty soldering jobs in both radio and TV repair and home workshop. Handsome, cherry-red, heat and shock-resistant plastic housing.

Tips include: Model 19-B-4 long-nosed standard tip for repair of household wiring, radio and TV, appliances, lamps, automobile wiring, hobby-craft uses, etc.; Model 19-F-33 flat iron tip specially designed for removing dents and repairing scratches in furniture or woodwork, heat-sealing of wax paper packages and plastic bags, etc.; Model 19-C-1 cutting tip for making any type of cut in plastic, rubber or asphalt tile, softening and removal of hardened putty, fusing and cutting of thermoplastic material, etc.

Gun operates from 110-120 v., 60 cycle AC and is U.L. Approved. Shpg. wt., 4 lbs.
46 N 319. List, \$9.95. NET 7.33



Model 199

MODEL 199—130 WATTS

- Heats in Just 2 1/2 Seconds
- High Efficiency—Excellent Balance

Extremely popular, low-cost soldering gun. Heats in just 2 1/2 seconds. Excellent balance for faster, easier soldering. Efficiency comparable to guns of much higher wattage ratings. Has steel nose long-life tip. Spotlight focuses on work. Rated at 130 watts. Lightweight; only 1 1/2 lbs., for use over long periods of time without fatigue. Heat and shock resistant cherry-red plastic handle. Overall length less tip, 5' 6" cord. Underwriters' Laboratories Approved. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 2 1/4 lbs.
46 N 358. List, \$7.95. NET 5.83

REPLACEMENT TIPS

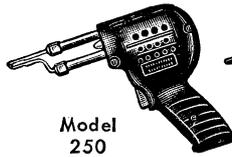
Stock No.	Mfr's Type	Description	NET EACH
46 N 359	19-B-4	Standard Tip	34¢
46 N 328	19-C-1	Plastic Cutting Tip	41¢

MODEL 250—250 WATTS

Heavy-duty soldering gun at low cost. Rated at 250 watts. Heats in 3 seconds. Excellent for radio-TV repair work and provides plenty of heat for heavy soldering jobs. Straight-line design and built-in spotlight for illuminating work area. Nickel-plated, corrosion-resistant tip. U.L. approved. For 110-120 v., 60 cycle AC. Length, 6 1/2". Shpg. wt., 5 lbs.
46 N 325. List, \$12.95. NET 9.52

REPLACEMENT TIPS

Stock No.	Mfr's Type	Description	NET EACH
46 N 326	25-A-4	Standard Tip	17¢
46 N 327	25-X-20	Ferrolay Tip	34¢
46 N 330	25-C-1	Plastic Cutting Tip	34¢



Model 250

MODEL 100—100 WATTS

- Low-Cost, High-Quality Solder Gun
- For All Light-Duty Soldering Jobs

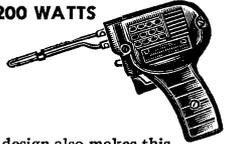
An exceptional value in a highly efficient 100-watt soldering gun. Designed for light duty work, it is ideal for general purpose soldering jobs around the shop or home. Quick heating—reaches operating temperature in 2 1/2 seconds. Features include a built-in spotlight for illuminating work area, easy-action trigger switch, comfort-styled pistol grip for perfect balance, and extra-long, steel-nosed tip for easy access to hard-to-reach places. Heat and shock-resistant black plastic housing. Length with tip, 8"; less tip, 4 1/2". 5' high. Uses Type 19 replacement tips listed at left. For 110-120 volt, 50-60 cycle AC. Shpg. wt., 2 1/4 lbs.
50 N 025. List, \$5.95. NET 4.66
3 or More, EACH 4.37



Model 100 Budget Gun

MODEL 288—200 WATTS

Economically priced, heavy duty 200-watt soldering gun. Delivers large volume of heat for all types of heavy-duty work. Special tip design also makes this an excellent gun for a wide variety of delicate, light-duty jobs. Long-reach tip for easy access to hard-to-reach places. Built-in spotlight focuses directly on work; eliminates shadow. Spotlight goes on and off with gun. Entire housing made of high-impact, shatterproof plastic. Ebony-black finish. Length with tip, 9 1/2"; less tip, 4 1/2". U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 3 1/2 lbs.
46 N 324. List, \$9.95. NET 7.33
46 N 331. Extra Tip. Wt., 3 oz. NET. 41¢



GREGG SOLDERING TOOLS



MODEL G250A
250-WATT GUN

Heavy-duty 250-watt solder gun featuring unique, single-barrel design. Delivers large volume of instant heat. Slim, probe-type 5" barrel easily reaches

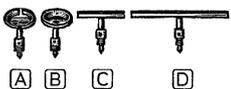
into tight places—excellent for working on crowded chassis and miniaturized units. Built-in pre-focused spotlight eliminates shadows. High-impact plastic housing with pistol-type grip for excellent balance. Soft-action trigger switch. Comes with 2 quickly interchangeable screw-in tips—1 pencil-point tip for delicate jobs; and one chisel tip for heavier jobs. For 110-120 v., 60 cycle AC. Shpg. wt., 3 lbs.
46 N 834. NET 11.71

REPLACEMENT TIPS

High-quality replacement tips for Gregg Model G-250A solder gun, listed above. Shpg. wt., 6 oz. 2 per pkg.

No.	Type	Description	PER PKG.
46 N 973	5211	Pencil Point	34¢
46 N 974	5212	Chisel Type	34¢

PRINTED CIRCUIT TIP KIT



Screw-in tips for Gregg G-250A solder gun. All simultaneously heats all contacts on tube socket mounts, IF transformer lugs, terminal strips, etc. Allows easy removal of multiple contact components from printed circuit boards. All 4 1/2" long. 1 1/2" long. 1 1/2" long. All 4 tips below. 1/2 lb.
50 N 140. NET 3.18

Separate Tips. May be ordered singly.

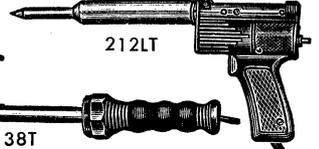
Stock No.	Fig.	Type	For	Oz.	EACH
50 N 136	A	5206*	IF Transformers	2	88¢
50 N 137	B	5207*	Min. Sockets	2	
50 N 138	C	5208†	Straight-line	3	
50 N 139	D	5209§	Connections	3	

WALL "THERMOSTATIC ACTION" SOLDERING TOOLS



238LT

Model 14T
Ideal For
Printed Circuits



212LT

38T

"TRIG-R-HEAT" SOLDERING GUNS

Wall "Trig-R-Heats" guns feature thermostatic action and lightweight, transformerless design. Just squeeze the trigger and the tip heats in seconds to the proper soldering temperature—automatically providing correct wattage for soldering job, whether heavy or light. The lightweight, balanced guns permit continuous, fatigue-proof operation. Narrow, 6 1/2" barrel provides good reach into tight or crowded places.

All guns have interchangeable tip-element assemblies. Steel-clad tips assure long service life. Tip-element assemblies are quickly and easily changed by means of plug-in, one-screw installation. Black plastic housing. For operation from 110-120 volts, AC or DC.

Model 212LT. Wattage range, 300-650. 1/2" steel-clad tip. Built-in 7-watt spotlight controlled by a separate, rear-mounted switch. Shpg. wt., 1 1/2 lbs.
46 N 848. NET 11.07

Model 214LTN. Similar to above, but employs 1/4" tip. Wattage range, 150-400. Shpg. wt., 1 1/4 lbs.
46 N 889. NET 9.77

Model 238LT. Designed for lighter soldering applications. Wattage range, 75-150. Employs 1/4" steel-clad tip. Built-in 7-watt spotlight controlled by a separate, rear-mounted switch. Shpg. wt., 1 lb.
46 N 853. NET 5.87

Model 238T. Same soldering gun as described above, but less spotlight and rear-mounted switch. Shpg. wt., 1 lb.
46 N 846. NET 5.51

SOLDERING IRONS

Thermostatic action soldering irons. Fine for delicate soldering operations, yet built to withstand "production line punishment." Thermostatic action assures quick heating and high wattage for heavier soldering jobs; reduced wattage for lighter jobs. Control action prevents tipburning; maintains optimum heat. U.L. Approved. For 110-120 v., AC or DC. *Pencil types. 14T is excellent for use with printed circuits and kit soldering jobs.

No.	Type	Watts	Tip Lgth	Wt. NET
46 N 851	18T* 25 to 85	1/4"	7"	7 oz. 4.51
46 N 852	14T* 40 to 125	1/4"	8"	7 oz. 5.15
46 N 854	38T 80 to 200	3/8"	12 1/2"	2 lbs. 6.53

REPLACEMENT TIPS

†Walloy-Red tips for production line use.

No.	Size	For	Wt.	NET
46 N 874	1/4"	18T	2 oz.	.78
46 N 875	1/4"	14T†	2 oz.	1.05
46 N 876	3/8"	38T†	3 oz.	1.18
46 N 873	1/4"	18T	2 oz.	.23
46 N 872	1/4"	14T	2 oz.	.33
46 N 855	3/8"	38T	3 oz.	.53

TIP-ELEMENT ASSEMBLIES

Replacement tip-elements for guns listed at left. Quickly and easily interchanged. *Fits 212-LT and 212LTN; †fits 238LT and 238T.

No.	Watts	Tip	Wt.	NET
46 N 870	*150-400	1/4"	12 oz.	3.25
46 N 849	*300-650	3/8"	1 lb.	5.21
46 N 897	† 75-150	1/4"	10 oz.	2.90

Quality Soldering Equipment

UNGAR SOLDERING EQUIPMENT



Lightweight

SOLDERING PENCILS

776 Series. Complete soldering pencils—consist of balanced lightweight plastic handle and ceramic-insulated element-tip unit. Excellent for a wide variety of soldering jobs including printed circuit soldering. Handle can also be used with other element-tip units and element-tiplet combinations. U.L. approved. For operation from 110-120 v., AC-DC.

23½-Watt Soldering Pencil. No. 776 handle with No. 536 pyramid element-tip. 6 oz. **46 N 580, 1-9, NET EACH... 2.16**
10 or More, EACH... 1.75

37½-Watt Soldering Pencil. No. 776 handle with No. 1236 pyramid element-tip. 8 oz. **46 N 591, 1-9, NET EACH... 2.35**
10 or More, EACH... 1.91

New 30-Watt Soldering Pencil. No. 776 handle with chisel element-tip. Has unplated tellurium copper tip for cooler running with same high 800° tip temperature as 37½-watt units. Shpg. wt., 6 oz. **50 N 100, 1-9, NET EACH... 2.35**
10 or More, EACH... 1.91

No. 776 Handle. Cord and handle only; less tip and element. Shpg. wt., 5 oz. **46 N 581, 1-9, NET EACH... 1.18**
10 or More, EACH... .96

STANDARD ELEMENT-TIPS

For use with all Ungar handles and solder pistol (see below). Ceramic-insulated. *23½-watt types; heat to 650-700° in 1 min. †37½-watt, silver-plated 800° units for use in production soldering. Av. shpg. wt., 3 oz.

Stock No.	Fig.	Mfr's Type	Descrip.	1-9, EACH	10-Up, EACH
46 N 582	B	536*	Pyramid Chisel	98c	79c
46 N 585	C	539*	Pyramid Chisel	1.18	96c
46 N 592	C	1236†	Pyramid Chisel	1.18	96c
46 N 593	B	1239†	Pyramid Chisel	1.18	96c



Cooler Handles

880 Industrial Series. Industrial type soldering pencils. Feature special metal heat deflector for lower handle temperature. Cork octagonal washer prevents rolling on table and keeps fingers from touching deflector. Consist of handle and element-tip unit. Handle can also be used with any other element-tip unit or element-tiplet combination. U.L. Approved. For 110-120 v., AC-DC.

47½-Watt Soldering Pencil. No. 880 handle with No. 4033 47½-watt chisel element-tip. Shpg. wt., 1¼ lbs. **50 N 102, 1-9, NET EACH... 3.92**
10 or More, EACH... 3.18

No. 880 Handle. Cord and handle only; less tip and element. Shpg. wt., 5 oz. **47 N 094, 1-9, NET EACH... 1.57**
10 or More, EACH... 1.27

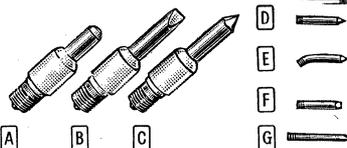
NEW TYPE 260 SOLDER PISTOL



- "On-Target!" Soldering
- Lightweight

Pistol-grip soldering iron for rugged, production line use and also for amateurs, experimenters and builders. Designed for comfortable working and "on-target" soldering. Special knob permits quick rotation of element-tip to best position for application of heat. Consists of No. 660 handle and tellurium copper chisel element-tip (800° F.). Tough phenolic handle also takes any other element-tips and element-tiplet combinations, including 47½-watt "Super Hi-Heat" types. U.L. Approved. For 110-120 v., AC-DC. Shpg. wt., 1 lb. **50 N 103, 6-Up, EA. 2.87** 1-5, EA., 3.53

No. 660 Handle. Pistol-grip handle only; less tip and element. Shpg. wt., ½ lb. **50 N 104, 10-Up, EA. 1.91** 1-9, EA., 2.35



STANDARD ELEMENTS & TIPLETS

Series 300 Tiplets. ¼" dia., 1" long. All tiplets are interchangeable; fit 535, 1235 or 4035 elements. PL types are iron-plated for long life. *New, needle-point tiplet for very close work. Av. shpg. wt., 2 oz.

Stock No.	Fig.	Mfr's Type	Descrip.	1-9, EACH	10-Up, EACH
46 N 606	D	331	Pencil Offset	16c	13c
46 N 607	E	332	Chisel		
46 N 608	F	333	Chisel		
46 N 495	D	PL331	Pencil Offset	47c	38c
46 N 496	E	PL332	Chisel		
46 N 497	F	PL333	Chisel		
50 N 101	G	PL338*	Needle		

A Elements. Heating units for series 300 tiplets above. Fit any Ungar handles. Type 4035 delivers 850° F. temperature to tiplet; Type 1235, 750°; Type 535, 650°. Av. shpg. wt. 1 oz.

Stock No.	Mfr's Type	Element	NET EACH
46 N 605	535	23½ Watts	.98 .79
46 N 609	1235	37½ Watts	1.18 .96
46 N 622	4035	47½ Watts	2.35 1.91

"SUPER HI-HEAT" ELEMENT-TIPS

47½-watt, 1-piece element-tips for extra-heavy-duty service and production line soldering. Use with No. 880 handle or No. 660 pistol-grip handle. *¼" chisel. †¾" chisel. ‡900° F., †1000° F. Av. shpg. wt., 12 oz.

Stock No.	Fig.	Mfr's Type	Descrip.	1-9, EACH	10-Up, EACH
46 N 647	E	4033*	Chisel	2.35	1.91
46 N 648	F	4036†	Pyramid		
46 N 649	E	4039†	Chisel		

EXTRA-LONG TIPLETS AND "SUPER HI-HEAT" ELEMENT

Type 4045 Element. 47½-watt element for use with Series 800 tiplets below. Fit any Ungar handle. Shpg. wt., 2 oz. **50 N 105, 10-Up, EA. 1.91** 1-9, EA. 2.35

Series 800 Extra-Long Tiplets. 2" long; ¼" dia. Fit No. 4045 element only. Wt., 2 oz.

Stock No.	Mfr's Type	Description	1-9, EACH	10-Up, EACH
50 N 106	PL833	Straight Chisel	78c	64c
50 N 107	PL834	Offset Chisel	78c	64c

TYPE 857 DE-SOLDERING TIPLET

Split tip for desoldering tabs from printed circuit boards. 2 oz. **50 N 108, 10-Up, EA. 38c** 1-9, EA., 47c

507 HEAVY-DUTY SOLDERING KIT



Complete extra-duty soldering kit and continuity tester. Contains: 776 handle; heavy-duty element-tip (825° F.) for general-purpose use; precision heating element and tiplet (650° F.) for fine soldering such as printed circuits, etc.; trouble light with circuit connectors; 1 sheet emery paper; solder; insulating tape and instructions. For operation from 110-120 v., AC-DC. Shpg. wt., 1 lb. **46 N 657, 1-5, NET EACH... 4.49**
6 or More, EACH... 3.99



NEW UNGAR 270 DE-SOLDERING KIT

Complete set for removing components from printed circuits without damage to board or components. Includes: No. 776 handle (not illustrated); No. 4045 47½-watt element; rectangular tiplet, 1½x¾" —for removing resistors, capacitors, etc.; circular tiplet, 1" dia., for 9-pin tube socket removal; circular tiplet ¾" dia., for 7-pin sockets; circular tiplet, ¾" dia., for 5-pin sockets; and slotted tiplet for straightening tabs. In sturdy metal case. For operation from 110-120 volts, AC-DC. Shpg. wt., 1¼ lbs. **50 N 109, 6 or More, EACH... 4.52** 1-5, NET EACH... 5.35

KESTER SOLDERS

ROSIN CORE SOLDER



Plastic rosin-filled thin solder. Flux filling flows easily for neater and quicker soldering. ¾" solder is recommended for general-purpose radio and electrical work; ¼" for fine, delicate work. 40% tin and 60% lead.

Stock No.	Size	Spool Wt.	Shpg. Wt.	NET
46 N 901	¾"	1 lb.	1¼ lbs.	1.05
46 N 902	¾"	5 lbs.	6 lbs.	5.05
46 N 930	¼"	1 lb.	1¼ lbs.	1.08
46 N 931	¼"	5 lbs.	6 lbs.	5.20

"RESIN FIVE" CORE SOLDER

Features "Resin 5" flux—non-corrosive and non-conductive. Makes soldering easier and faster. Handy coil, ¼" dia.; spool, ¾" dia. 40% tin and 60% lead.

46 N 900, Handy Coil. 3 oz. NET... 17c
46 N 916, 1-lb. Spool. 1¼ lbs. NET... 1.05

Printed-Circuit Solder—60/40 Type. Composed of 60% tin; 40% lead. For copper-clad printed circuits. ¼" dia. **46 N 926, 1-lb. Spool.** 1¼ lbs. NET... 1.40

ACID CORE SOLDER

Acid core solder for all general soldering other than electrical connections. ¼" dia. Acid flux saves time; makes a lasting job. 40% tin and 60% lead.

46 N 905, Handy Coil. 3 oz. NET... 17c
46 N 906, 1-lb. Spool. 1¼ lbs. NET... 1.05

SOLDERING PASTE

Gives fine, even distribution of fluxing ingredients. For clean non-corrosive soldering. 2 oz. cans. Shpg. wt., 5 oz. **46 N 915, 10 for 1.05, NET EACH... 12c**

KESTER TINNING BLOCK

Cleans and tins soldering irons quickly. Replaces sal ammoniac. Will not crumble or cause any corrosion. Shpg. wt. 1¼ lbs. **46 N 922, NET... 65c**

ERSIN MULTICORE SOLDER



5-core solder for high-speed, precision soldering. Melts rapidly with less heat. Pure tin, lead, and non-corrosive Ersin flux. 40% tin; 60% lead. In 14-gauge, (.080") and 16-gauge (.064") 1-lb. spools. Shpg. wt., 1½ lbs.

46 N 995, 14-Gauge 1-lb. Spool. 28-Up, EA., 1.14 1-27, NET EA., 1.37

46 N 991, 16-Gauge 1-lb. Spool. 28-Up, EA., 1.16 1-27, NET EA., 1.39

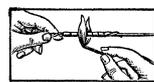
Service Pak. 18-gauge, 60/40 5-core solder. Shpg. wt., 12 oz. **46 N 997, NET... 50c**

NEW ERSIN "SAVBIT" SOLDER

Copper/tin/lead/alloy solder. Reduces soldering iron wear. Has virtually same melting point and greater strength than tin/lead alloys.

Stock No.	Size	Spool Wt.	Shpg. Wt.	NET
50 N 121	14 Ga.	1 lb.	1¼ lbs.	1.70
50 N 122	(.080")	7 lbs.	8¼ lbs.	11.62
50 N 123	16 Ga.	1 lb.	1¼ lbs.	1.72
50 N 124	(.064")	7 lbs.	8¼ lbs.	11.76

BLONDE TAPE SOLDER



Tape of 40/60 tin lead solder with rosin flux. Just use a match, candle, cigarette lighter or torch for rapid soldering. Tape is wrapped around wires to be joined or metal to be bonded, and heat is applied. Flux is activated at 190° and dissipates at 210°—forms a bond that will not corrode. Has same protective qualities as bar or spool solder. 28" long—enough for 100 connections. Shpg. wt., 2 oz. **46 N 979, List, 25c. NET... 17c**

Soldering Irons and Pots

ORYX MINIATURE INDUSTRIAL IRONS

Extremely Light in Weight



For Delicate Solder Jobs

1/4-OUNCE SOLDERING IRONS

Perfect for the most delicate soldering—printed circuits, TV tuners, sub-miniature wiring, hearing aids, etc. Quick heating, low-voltage design. Operate from 6-v. AC or DC. Use with step-down transformer (below) or other 6-v. source. All are 1/4 oz. and 6" long, *except 3/4 oz. and 7 1/2" long. All have replaceable tips, except fixed tip. Tips are described in table (below). †Develops 813° F for high-temperature applications. ‡Develops 1000° F. Av. wt., 2 oz.

Stock No.	Model	Tip Type	Watts	1-11, EACH	12 or More, EACH
46 N 817	16	fixed	6	4.85	4.36
46 N 818	6A	B	6	4.85	4.36
46 N 819	9-6	A	8.3	4.85	4.36
46 N 828	11	D	10	6.81	6.32
46 N 829	12-6	C	12	4.85	4.36
46 N 830	*18	F	18	7.35	6.91
46 N 909	†25	G	25	7.84	7.40

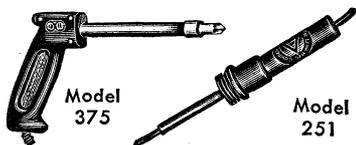
REPLACEMENT TIPS

For above irons, except Model 6. Tips made of special copper alloy and are nickel plated. *Pure nickel end for long life. Av. wt., 2 oz.

Stock No.	Type	For Model	Dia.	EACH
46 N 831	A	6A, 9-6	3/32"	.49
46 N 843	B	6A, 9-6	3/32"	.49
46 N 844	C	12-6	3/16"	.49
46 N 845	D*	11	3/16"	1.76
46 N 877	E*	11	3/32"	1.76
46 N 898	F	18	3/16"	1.22
46 N 899	G*	18	3/16"	1.81
46 N 912	H	25	1/4"	2.30

Step-Down Transformer. For all irons above, except Model 25. Has holder for iron. Rated 18 watts, 4 1/2-ft. AC cord, 2 1/4 x 2 1/4". For 110-120 v., 60 cycle AC. Wt., 2 lbs. 46 N 923. NET.....4.85
Transformer for Model 25. As above, but rated at 25 watts. 46 N 924. NET.....5.83

LENK SOLDERING IRONS



ECONOMY PISTOL GRIP IRON

Model 375. Popularly priced, all-purpose 80-watt pistol grip iron. Highly dependable, heavy-duty element. Heavy chrome-plated barrel. Tip dia. 3/8". U.L. Approved. For operation from 110-120 v., AC or DC. Shpg. wt., 1 1/4 lbs. 46 N 638. NET EACH.....2.57

REPLACEMENT TIP

For use with Model 375, above. Tip diameter, 3/8". Shpg. wt., 4 oz. 43 N 714. NET.....48¢

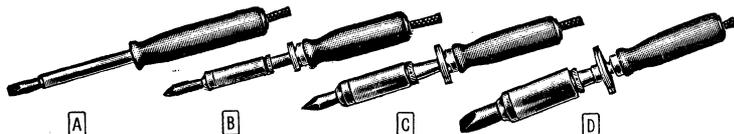
PENCIL TYPE IRONS

Model 251 Pencil Type 25-Watt Soldering Iron. Lightweight, compact and extremely sturdy. Has 1/2" dia. tip; weighs only 4 oz. Tiny barrel and tip permit easy access to tight spots. Perfect for production line use and printed circuits. For 110-120 v., AC or DC. 8 oz. 46 N 940. NET EACH.....4.41
 Type 256. As above, but built for heavier work—rated 40 watts. Shpg. wt., 8 oz. 46 N 941. NET.....4.41

REPLACEMENT TIPS

Stock No.	Description	Shpg. Wt.	NET
46 N 942	1/8" dia. x 3" long	3 oz.	33¢
46 N 946	3/4" dia. x 1 1/4" long	3 oz.	48¢

AMERICAN BEAUTY SOLDERING IRONS



Wide selection of American Beauty soldering irons. Models to fit any soldering application. Special, iron-plated tips are available for all models; greatly reduce pitting and redressing—saves time and saves cost of frequent tip replacements. Casing and body of one-piece seamless steel. Lightweight, shatterproof, rubberoid-coated handles. 6-ft. heater cords withstand repeated kinking and twisting. Irons are rated to withstand an insulation breakdown test of 1100 volts.

MODEL 3128—60 WATTS

A Designed for light work. Includes 1/4" copper tip. Handy for hard-to-get-at spots. With stand. Length, 12 1/4". For 110-120 volts, AC or DC. Shpg. wt., 1 lb. 46 N 674. NET.....4.25
 6 or more, EACH.....4.05

REPLACEMENT TIPS AND ELEMENT

For Model 3128 iron. Type 9272 Replacement Element has mica insulation; includes handling spring, tube and terminal assembly.

No.	Type	Description	Oz.	NET
46 N 675	3728	Copper tip	3	.30
46 N 820	3728-IP	Iron-plated tip	3	.57
46 N 670	9272	Element	6	2.30

MODEL 3138—100 WATTS

B An excellent general purpose iron for home use. Also widely used in TV, radio, telephone and switchboard work and similar applications. 3/8" dia. copper tip. Polished chrome plated metal parts. Has cooling baffle. With stand. Length, 12 1/2". For 110-120 volts, AC or DC. Shpg. wt., 2 1/4 lbs. 46 N 655. NET.....6.50
 6 or more, EACH.....6.20

REPLACEMENT TIPS AND ELEMENT

No.	Type	Description	Oz.	NET
46 N 656	3738	Copper tip	6	.42
46 N 821	3738-IP	Iron-plated tip	6	.69
46 N 666	9273	Element	16	2.70

MODEL T-30 SUPER HOT SOLDERING IRON

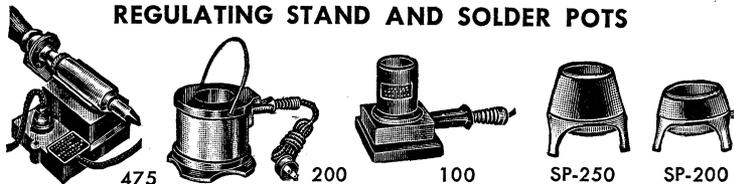
Advanced-design, 30-watt transformer-type soldering iron features exclusive "Red Hot Tip" Excellent heat-stability for heavy-duty, precision jobs. Split-collet in handle permits quick, easy change of tip-elements. Pencil-type, lightweight handle. With pre-tinned, long-life 1/8" dia. pyramid tip. Has 7-ft. cord. 12 v. transformer in cord isolates iron from AC line. For 110-120 v., 50-60 cycle AC. Shpg. Wt., 2 lbs. 50 N 050. 6-Up, EACH.....11.80 1-5, EACH.....12.40

50 N 151. As above, but with 1/4" tip dia. 6-Up, Each.....11.80 1-5, EACH.....12.40

REPLACEMENT TIPS. For Model T-30 iron above. Wt., 2 oz.

Stock No.	Tip-Element	1-11,EA.	12-Up,EA.	Stock No.	Tip-Element	1-11,EA.	12-Up,EA.
50 N 052	1/8" Pencil	2.15	1.70	50 N 054	3/4" Pencil	2.15	1.70
50 N 053	3/8" Chisel	2.15	1.70	50 N 055	3/4" Chisel	2.15	1.70

REGULATING STAND AND SOLDER POTS



AMERICAN BEAUTY "475" TEMPERATURE REGULATING STAND

Thermostatically controlled soldering iron rest. Maintains soldering iron temperature—even while the iron is connected to current and not in actual use. Eliminates tip burning and necessity for frequent retinning. Perfect for production line and service bench. Plastic body. Soldering iron cradle of copper alloy. Has heater cord and plug-in receptacle. For use with soldering irons from 80 to 660 watts input, up to 240 volts, AC only. Less soldering iron. Shpg. wt., 2 1/2 lbs. 46 N 658. NET.....5.25

DRAKE SOLDER POTS

Model 200—300 Watts. Heavy-duty production type solder pot. Excellent for dip soldering wires, plugs, coils and printed circuits. 2 1/2" x 2" deep well holds up to 2 lbs. solder. With detachable cord and plug set. Extension lip protects cord from solder. For 110-120 v., AC or DC. Shpg. wt., 6 lbs. 46 N 555. List, \$12.00. NET.....7.06

Model 100—150 Watts. Ideal solder pot for general light-duty work. Excellent for tinning wires, component leads, plugs, etc. 1 1/2" dia. x 1" deep well holds 1 lb. of solder. With cord. For 110-120 v., AC or DC. Shpg. wt., 3 lbs. 46 N 556. List, \$9.50. NET.....5.59

LECTROHM SOLDER POTS

Solder pots for work requiring individual dipping pots for tinning small wires, leads, etc. Sizes—SP-200: 2 3/4" ht., 2 3/4" dia., 7/8" cup depth; SP-250: 3 3/4" ht., 2" dia., 1 3/4" cup depth. Complete with 6 foot detachable cord. For 110 volt operation, AC or DC.

Stock No.	Type	Capac.	Watts	Wt.	NET
46 N 880	SP-200	1 1/4 lbs.	200	3 3/4 lbs.	4.98
46 N 881	SP-250	2 lbs.	250	3 1/2 lbs.	4.98

Replacement Nickel-Chrome Elements. Shpg. wt., 3 oz. 46 N 882. Type A. For SP-200. NET...1.42
 46 N 883. Type B. For SP-250. NET...1.42

Power Tool Kits—Quality Grinders

THOR QUALITY POWER TOOL KITS



10 Pieces

Model 60

HEAVY-DUTY WRENCH-DRILL KIT

MODEL 60. Rugged, exceptionally handy kit for farm, shop and industrial use. Includes powerful impact-wrench with 7 most commonly used nut-driver sockets; 3-jaw, gear-type chuck with $\frac{1}{2}$ " capacity and steel carrying case ($10\frac{1}{2} \times 11\frac{1}{2} \times 16\frac{1}{4}$ "). Used as impact-wrench it is perfect for production assembly work or auto, truck and machinery repair and maintenance. Couples directly to nut-driver sockets—providing powerful torque. Built-in fingertip reversing switch permits speedy driving or removal of nuts. By use of sturdy gear-type chuck, wrench may be easily converted to $\frac{1}{2}$ " drill. Can be used with attachments to do the work of a screwdriver, polisher-sander, tapper, hole saw, wire brush, etc.—3-conductor, 10' cord. For 110-120 v., AC or DC. 21 lbs.

50 NU 018. List, \$99.50. NET..... 68.11

3 Tools in One!



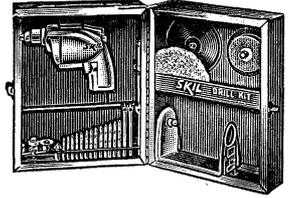
20KJS

THREE-IN-ONE TOOL KIT

MODEL 20KJS. Three versatile tools in one—a powerful electric drill, a handy saber-type jig saw, and a convenient reciprocating-type sander. New Thor high-value tool kit incorporates the Model 20, $\frac{1}{4}$ " electric drill. Has self-aligning ball-thrust bearings to assure smooth operation and gear-type chuck. This outfit makes it possible to save hours of work. Use it in your shop, hobby-room, or garage for a variety of applications. Supplied with accessories including 7 hardened-steel drill bits, 1—wood cutting and 1—metal cutting saber-saw blade, 4 abrasive sheets and lambs wool polishing pad. Ruggedly constructed steel case holds entire kit. Size, $9 \times 12\frac{3}{4} \times 9\frac{1}{2}$ ". Drill Underwriters' Laboratories Approved; operates from 110-120 volts, AC or DC. Shpg. wt., 11 lbs.

50 NX 016. List, \$37.50. NET..... 24.95

SKIL DELUXE $\frac{1}{4}$ " DRILL KIT

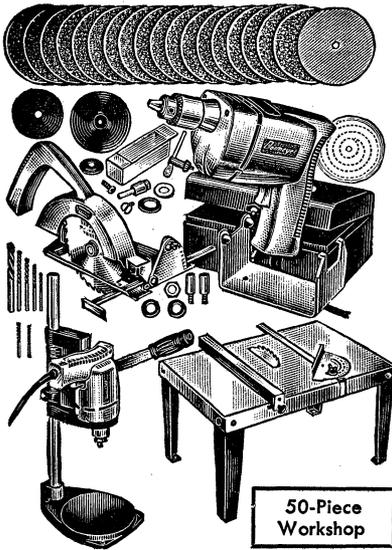


- Speeds Performance on Many Jobs
- Powerful Drill—32 Accessories

MODEL 515. Versatile, new 32-piece drill kit powered by Skil's famous No. 549 $\frac{1}{4}$ " drill with geared chuck. Rugged, 2.5 amp motor handles all accessories with ease. Drills, sands, polishes and grinds, stirs paint—practically a workshop in itself. Readily converts for car polishing. Lambs wool bonnet leaves a high lustre on painted surfaces; wire wheel brush for gleaming rust-free chrome. Kit accessories also include: sturdy horizontal mounting bench for conversion to stationary unit; 3" grinding wheel for sharpening tools; 5" rubber backing wheel; 5 assorted grit sanding discs; $\frac{1}{2}$ " adapter with $\frac{1}{4}$ " shank; set of 13 twist drills, $\frac{1}{16}$ " to $\frac{1}{4}$ " by 64ths; 3 wood auger bits, $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ "; countersink and paint stirring attachment. Cabinet-styled carrying case can be hung on workshop wall. $13 \times 14 \times 7$ ". For 110-120 v., AC or DC. Shpg. wt., 14 lbs.

50 NX 226. List, \$42.95. NET..... 32.20

DORMEYER "MATCHED CRAFT" TOOL SET



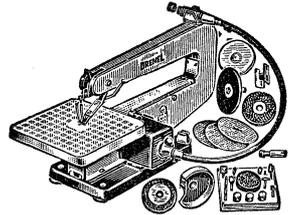
50-Piece Workshop

MODEL 5-3905. Complete, new 50-piece home workshop set. Drills, saws, polishes, grinds, sands, etc., and contains everything the home craftsman or serviceman could ask for—at an unusually low price! Workshop includes: The Model 5-2400 $\frac{1}{4}$ " drill; horizontal drill stand; stationary drill press; 8 4" sanding discs (60 grit); six 4" sanding discs (120 grit); 4" sandpaper pattern; 3" buffing wheel; 4" rubber backing pad; 3" grinding wheel; set of seven assorted steel drill bits; 6-piece arbor set with plastic case; 5-1103 saw attachment with rip fence—converts drill to highly useful $4\frac{1}{2}$ " power saw; $4\frac{1}{2}$ " combination saw blade; sturdy, tilting saw table with miter gauge and rip fence—miters, levels, cross-cuts and rips; steel case.

Model 5-2400 $\frac{1}{4}$ " drill included in the set, is an indispensable home and shop tool. Has geared chuck to securely grip drill bits and attachments. Precision cut, hardened steel gears for super-torque drive. Comfortable, extra-long pistol grip provides easier handling and safety. Built-in switch lock; locks drill "on" or releases instantly. Self-lubricating bearings; smooth-operating motor powers all attachments with ease. No-load speed, 2200 rpm. Die-cast, polished aluminum housing. U.L. Approved drill operates from 110-120 v., AC or DC. Wt., 22 $\frac{3}{4}$ lbs.

46 NU 396. List, \$49.95. NET..... 36.11

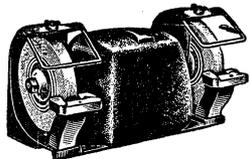
DREMEL MOTO-SHOP KIT



MODEL 57. Versatile, fast-cutting jig saw with power take-off and 23 accessories. "Rocker Action" saw has tilting table, full 15" throat, 3450 rpm rotary motor and blade safety-guard. Accessories include: flexible shaft with lightweight, plastic handpiece; rubber backing pad and adapter; 3 sanding discs; grinding wheel; cloth buffing wheel; wire brush wheel; wheel guard, adapter, and polishing compound stick. Kit also has a 12-piece set for use with flexible shaft. Contains abrasive wheels, collet adapters, router, brush and drill. Excellent for fine, close work with wood or metal. Extremely useful tool for home hobbies and handicrafts. Safe for all age groups. For 110-120 v., 60 cycle AC. Shpg. wt., 17 lbs.

46 NX 952. List, \$49.95. NET.... 37.46

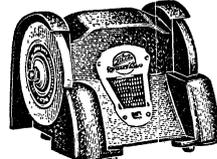
THOR HIGH-QUALITY GRINDERS



HEAVY-DUTY SPEEDGRINDER

MODEL 128. Ideal bench grinder for all heavy-duty grinding applications in shops, garages, and homes. Adjustable tool rests with built-in angle guides allow fast and accurate sharpening of drills, chisels, planes and a variety of other cutting tools. Lightweight, die-cast aluminum housing. Rubber feet protect work surface—absorb vibration. Keeps all your tools keen-edged, ready to use. Transparent protective shield incl. Has two grinding wheels: 1—46 grit and 1—75 grit. Wheel size: $6 \times 3 \times \frac{1}{2}$ ". Powerful motor is $\frac{1}{4}$ -hp induction-type. No-load speed, 3450 rpm. Self-aligning, oil-less bearings. On-Off switch. Overall length, 16". For 110-120 v., 60 cycle AC only. Wt., 24 lbs.

46 NU 468. List, \$32.50. NET..... 22.35



HIGH-QUALITY BENCH GRINDER

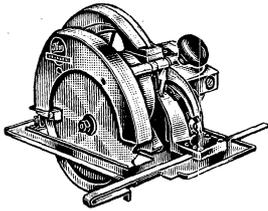
MODEL 117. Ideal power bench grinder for the small shop, garage, or home work bench. Widely used by model makers, hobbyists, schools, etc. Designed for medium or light work loads. Light in weight for easy portability.

Can be secured to bench or table-top if desired. Grinding wheels: 1—60 grit for coarse grinding; 1—120 grit for smooth. Wheels are $4\frac{1}{2} \times 3\frac{1}{2}$ " with $\frac{3}{8}$ " center hole. Dependable 1/15-hp motor. Speed: 3400 rpm no-load. Motor, shaft and bearings are completely housed by case which also provides integral wheel guards and tool rests. Has self-aligning, oil-less bronze bearings. On-Off switch. With 6-foot, heavy-duty 2-conductor cord. Height, 6"; width, 8"; depth, 6 $\frac{3}{4}$ ". Rubber feet. For 110-120 volts, 60 cycle AC only. Shpg. wt., 8 lbs.

46 N 373. List, \$17.95. NET..... 12.35

Power Saws and Accessories

THOR 450 SPEEDSAW

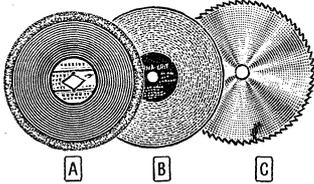


- Excellent for Home or Trade Use
- With Rugged 1/4-HP Motor

A heavy-duty, power hand saw which fully meets all the requirements for trade use by carpenters and contractors. A fine addition to either a professional or a home craftsman tool kit. Rugged 1/4-hp (9 ampere) motor has no-load speed of 5500 rpm. Automatic blade guard with lifter handle for plunge cuts. Spring-loaded, ball-bearing mounted blade guard exposes only portion of blade required while cutting. Large 6 1/2" blade cuts to 2 3/8" depth at 90°; 1 1/8" at 45°—cuts "2-by-4" at 45°. Minimum depth of cut, 1/8". Graduated angle adjustment easily adjusts to any angle between 90° and 45°. Comfortable, easy-grip handle with momentary-action trigger switch with guard. With combination (rip and cross-cut) blade, heavy-duty rubber-covered 10-ft. cord with ground wire, and adjustable rip guide. U.L. Approved. For 110-120 v., AC or DC. Shpg. wt., 15 lbs.

46 NX 788. List, \$49.95. NET.... **34.25**
EXTRA BLADE. Combination rip and cross-cut. 6 1/2" dia. Shpg. wt., 10 oz.
50 N 007. NET..... **1.88**

SKIL POWER SAW BLADES



PERMA-GRIT BLADES

A CUTTING BLADE. Newly developed type of cutting blade adds greatly to the versatility and efficiency of portable power saws. Speeds up cutting time and decreases chance of accidental damage to material. Tungsten carbide "grit" particles are copper-bonded to metal blades. The grit will not roll off or wear out. Blades last for years—never need sharpening. Cut by abrasion. Perfect for cutting thin veneer, plywood, masonite, fiber glass and other splinter-prone material. Cuts plywood and veneers without chipping. Ideal for finish carpentry as completed cuts are smooth, ready for installation.

Stock No.	Type	Fits Saw	Wt.	NET
45 N 212	19911	536	12 oz.	3.65
45 N 213	19909	553	1 1/4 lbs.	4.25

B SANDING BLADES. Can be used for sanding, cutting, shaping, notching and ploughing.

Stock No.	Type	Fits Saw	Wt.	NET
45 N 214	20155	536	3/4 lb.	4.98
45 N 215	20153	553	1 lb.	5.98

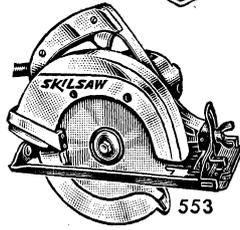
STEEL ALLOY BLADES

C Special nickel, chrome, molybdenum steel alloy. *Fits 5/8" round arbor. †Fits diamond arbor. Shpg. wt., 3/4 lb.

Stock No.	Mfr's Type	Description	Fits Saw	NET EA.
45 N 216	377†	Combination	553	2.15
45 N 217	17988*	Combination	536	2.15
45 N 218	356†	Cross Cut	553	2.15
45 N 219	18552*	Cross Cut	536	2.15
45 N 220	352†	Rip	553	2.15
45 N 221	18553*	Rip	536	2.15



POWER SAWS AND TABLES



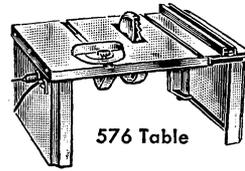
553

MODEL 553 7 1/4" SAW

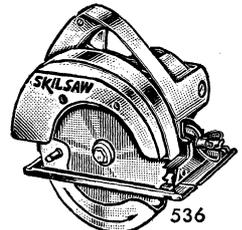
- Powerful Home Workshop Power Saw
- Suitable for Heavy-Duty Construction Use

Very rugged general purpose hand-saw—designed for heavy-duty construction use. Plenty of extra cutting capacity. Handles tough framing and rafter cuts. Easily cuts through "2x4's" even at 45° bevel. Has powerful 1 3/4-hp motor. No-load speed, 6000 rpm. Variable torque clutch provides built-in protection against motor burn-out, excessive wear on gears and bearings. Saw shaft will spin free if the blade binds or jams in cut—gives extra safety against possible saw "kick-back." Built-in calibrator for accurate bevel adjustments from 0° to 45°. Makes accurate 90° cuts. Easy-to-reach depth-of-cut adjustment locks saw rigid at desired cutting depth. Permits cutting grooves accurately. Telescoping lower guard shields blade—automatically retracts as blade enters work. 7 1/4" blade cuts to 2 3/8" depth at 90°; 1 7/8" at 45°. Diamond arbor. For 110-120 v., AC or DC. Shpg. wt., 16 1/2 lbs.

45 NX 222. List, \$89.50. NET.... **66.95**
MODEL 13282. STEEL CARRYING CASE FOR ABOVE SAW. Has handle; space for spare blades. 12 1/2x11 3/8x12 3/8". Shpg. wt., 13 lbs.
45 NX 223. List, \$18.00. NET..... **13.45**



576 Table



536

MODEL 536 6 1/2" SAW

- Delivers Plenty of Power on Tough Cuts
- Has Built-In Motor Safety Action

Rugged power hand saw with many professional features. Efficient 1-hp motor delivers power to spare on tough cuts. No-load speed is 6300 rpm. Variable torque clutch provides built-in motor protection—saw shaft spins free if blade binds or jams in cut. Telescoping lower guard shields blade—retracts as blade enters work. 6 1/2" blade cuts 2 3/8" deep at 90°; 1 3/4" at 45°. Cuts "2x4's" at 45°. 5/8" round arbor. Easy-to-read calibrations allow accurate, adjustable bevel-cut setting from 0° to 45°. For 110-120 v., AC or DC. Wt., 12 lbs.

45 NX 224. List \$54.95. NET.... **40.95**

MODEL 18606. STEEL CARRYING CASE FOR ABOVE SAW. Has handle; space for spare blades. 11x11x12 1/4". Wt., 8 1/4 lbs.

46 NX 225. List, \$16.00. NET..... **11.90**

MODEL 576 SAW TABLE. Sturdy space-saving saw table—mounts on workbench or table top. Converts Skil saws to bench saws. 21x16 1/2" table top, 14" high. By adjusting blade height, can be used for grooving, notching, and dadoing. Has adjustable miter and rip guides. Shpg. wt., 15 1/2 lbs.

45 NX 226. List, \$19.95. NET..... **14.95**

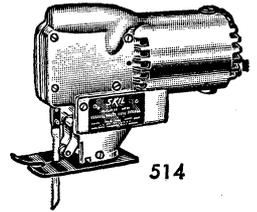
SKIL MODEL 514 JIG SAW

Extremely efficient orbital-action jig saw. Cross-cuts, rips, scrolls, etc. A useful multi-purpose saw for any craftsman. Can be used to cut intricate patterns and fine decorative curves—including inside curves and cutouts. Use it for starting a hole for pocket cuts—no need to drill hole in stock. Powerful 1/2" stroke cuts plastics and metal; will cut 2" lumber. Supplied with fine blade. For operation from 110-120 volts, AC or DC. Shpg. wt., 5 lbs.

50 NU 074. List, \$47.50. Only \$3.55 Down. NET. **35.45**

REPLACEMENT BLADES

FINE BLADE. Shpg. wt., 3 oz.
50 N 075. NET..... **69c**
COARSE BLADE. Shpg. wt., 3 oz.
50 N 076. NET..... **36c**



514

WEN MODEL 505K PORTABLE SABRE SAW KIT

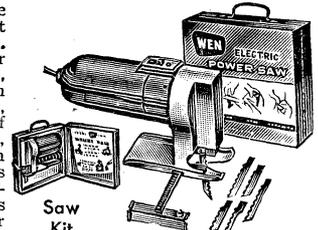
Versatile power saw kit for shop and home. Can be used as a rip-saw, coping-saw, band-saw, cross-cut saw, scroll-saw, jig-saw, hack-saw and keyhole saw. Rotary type universal motor delivers 2650 strokes per minute. Length of stroke, 5/8". Cuts wood, hardboard, plaster, leather, 2x4 lumber, etc. Makes its own starting-holes or inside cuts. Also makes straight, curved, circular or intricate cuts. Overall length of saw: 6 3/4". Kit includes rip-sawing attachment, circle-cutter and 5 blades: both coarse and medium wood-cutting blades; fine scroll blade; non-ferrous metal-cutting blade; extra fine blade for bakelite, ferrous metal, formica, etc. Metal carrying case—holds saw with blade inserted. Motor U.L. Approved. For 110-120 v., AC or DC. Shpg. wt., 6 1/2 lbs.

45 N 899. List, \$32.95. \$2.45 Down. NET... **24.50**

MODEL 505 PORTABLE POWER SABRE SAW ONLY. As above. With 3 blades—coarse, medium, fine. Shpg. wt., 4 lbs.
46 N 362. List, \$29.95. NET..... **21.97**

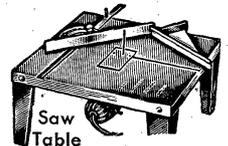
MODEL 51† STEEL SAW TABLE ONLY. With protractor, jointer, circle cutter, rip fence, 5 blades. 15x15x7 1/2". Shpg. wt., 12 lbs.
46 NX 339. List, \$12.95. NET..... **9.52**

EXTRA SET OF 3 BLADES. Same as with 505 saw (coarse, medium and fine). Shpg. wt., 4 oz.
46 N 363. List, \$1.20. NET..... **82c**



Saw Kit

Hundreds of Uses



Saw Table

Electric Drills—Bits



EXTRA TORQUE 1/4" AND 1/2" POWER DRILLS

Model 549



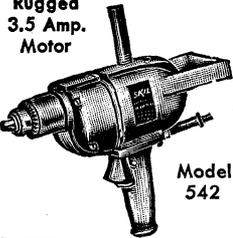
- Compact, Lightweight
- Large 2.5 Amp Motor
- Ultra-Smooth Action

New, heavy-duty 1/4" drill features large 2.5 amp motor for an extra margin in power. Gives top-performance on all drilling jobs or when used with 1/4" drill accessories. Has over-sized fan for cool-running motor—prolongs the useful life of drill. Precision helical gears transmit power efficiently for smooth operation. Sturdy gear-type chuck fits all tool shanks up to 1/4". Rugged aluminum housing with pistol-grip for easy handling. Momentary contact trigger has locking pin. No-load speed, 2500 rpm. Overall length, 8 3/4". With chuck key. Heavy 3-conductor rubber cord with ground connector. U.L. Approved. For operation from 110-120 v., AC or DC. Shpg. wt., 4 1/2 lbs.

50 N 193. List, \$24.95. NET.....18.60
1/4" Chuck Key. For gear-type chucks. 4 oz.

MODEL 542 1/2" DRILL

Rugged 3.5 Amp Motor



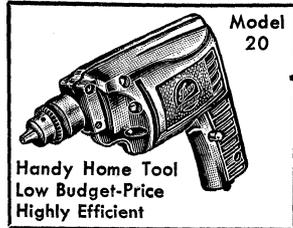
Model 542

New, power-packed 1/2" drill with rugged 3.5 amp motor. Handles the toughest jobs in heavy lumber, masonry and metals with ease. Advanced control with 3 separate handles for easy drilling control. Top handle is removable for work in close quarters. Has highly polished, durable aluminum housing. Heavy-duty end-thrust bearings and self-aligning bronze bearings. Precision helical gears for smooth, efficient power take-off. Gear-type chuck takes up to 1/2" shanks. Drills holes in steel up to 1/2" in dia.; 1" in wood. Pistol-grip handle has momentary-contact switch with locking pin. No-load speed, 500 rpm. Heavy 3-conductor rubber cord. With chuck key. Length 12 1/2". U.L. Approved. For 110-120 v., AC or DC. Shpg. wt., 11 lbs.

50 N 194. List, \$56.50. \$4.22 Down. NET.....42.20
1/2" Chuck Key. For gear-type chucks. 5 oz.

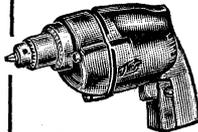
50 N 197. NET.....64c

THOR QUALITY ELECTRIC DRILLS

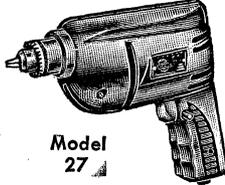


Model 20

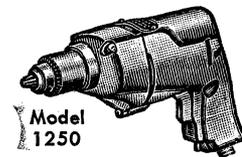
Handy Home Tool
Low Budget-Price
Highly Efficient



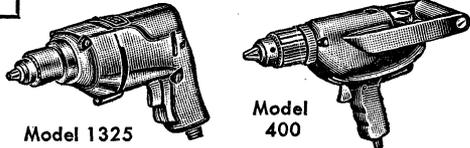
Model 100



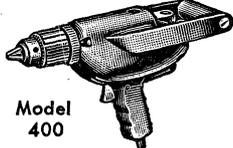
Model 27



Model 1250



Model 1325



Model 400

Durable Heavy-Duty Models—Power-Packed
for Rugged Use in Homes, Farms, Factories

MODEL 20 BUDGET DRILL

- Excellent Buy in a 1/4" Drill
- A Thousand Uses in Shop or Home

A truly outstanding value in an efficient 1/4" electric drill. For servicemen, hobbyists, etc. Gear-type chuck takes drill shanks up to 1/4" diameter. Drills holes to 1/4" diameter in steel, and to 1/2" diameter in hardwood. Self-aligning, ball-thrust bearings assure smooth operation. Has locking pin on momentary-contact trigger switch. No-load speed, 2400 rpm; full-load speed, 1500 rpm. With chuck key. 7" long. U.L. Approved. For operation from 110-120 volts, AC or DC. Shpg. wt., 3 1/4 lbs.

50 N 009. List, \$18.95. NET.....12.95

MODEL 100 DRILL

Efficient and powerful 1/4" electric drill. Designed for rugged use. Series-wound universal motor develops high torque. Reliable 3-jaw geared chuck with tightening key. Chuck takes drill shanks up to 1/4" diameter. Speed: 2000 rpm no-load, 1200 rpm full-load. Trigger-type, momentary action switch with locking pin. Length, 8 1/2". U.L. Approved. For 110-120 v., AC or DC. Shpg. wt., 5 lbs.

46 N 370. List, \$25.00. NET.....17.15

MODEL 1325 3/8" DRILL

Highest quality, heavy-duty 3/8" drill ideally suited for home, farm, and industrial work. Has 3/8" geared chuck with key. Momentary-contact trigger switch with locking pin. Ball-bearing on chuck spindle; oilless bronze elsewhere. No-load speed, 1000 rpm; full-load speed, 650 rpm. Length, 9 3/4". Polished, cast aluminum housing. 6-ft., 3-conductor cord. U.L. Approved. For operation from 110-120 v., AC or DC. Shpg. wt., 5 lbs.

46 N 998. List, \$39.50. NET.....28.90

MODEL 27 DRILL

Highly efficient, power-packed 1/4" drill featuring ball-bearing design for ultra-smooth operation—long useful life. Excellent for wide variety of jobs—maintenance, farm, garage, hobby and repair shop. Rugged geared chuck with key. Fits all bits with shanks up to 1/4" dia. Has anti-friction, heavy-duty thrust ball bearing on spindle. Die-cast, all-aluminum housing. Speed: 2200 rpm no-load, 1400 rpm full-load. Trigger type, momentary-contact switch with convenient locking pin. Overall length, 9". Equipped with 10-ft., 3-conductor cord. U.L. Approved. For operation from 110-120 v., AC or DC. Shpg. wt., 5 lbs.

46 N 999. List, \$27.95. NET.....19.11

MODEL 1250 DRILL

Top-quality, heavy-duty 1/2" drill with extra-rugged motor. Designed to give years of service under the most severe conditions. Features sealed, anti-friction, ball-thrust and needle-bearing bearings. Gear-type chuck takes up to 1/2" diameter shanks. No-load speed, 2000 rpm; full-load, 1300 rpm. Length, 9". 10-ft., 3-conductor cord. U.L. Approved. For 110-120 volts, AC or DC. Shpg. wt., 5 lbs.

46 N 454. List, \$44.00. NET.....32.14

MODEL 400 1/2" DRILL

Outstanding power and performance are combined in this heavy-duty 1/2" drill. Aluminum housing. Removable sidehandle for close drilling. Heavy-duty radial and end-thrust ball bearings on spindle. Other bearings, self-aligning bronze. No-load speed, 650 rpm; full-load, 425 rpm. 1/2" geared chuck with key. Momentary contact switch with locking pin. 3-wire line cord. U.L. Approved. For 110-120 volts, AC or DC. Shpg. wt., 11 lbs.

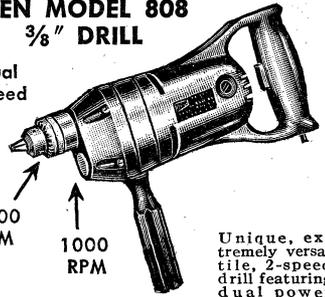
46 N 455. List, \$39.95. NET.....27.10

WEN MODEL 808 3/8" DRILL

Dual Speed

3000 RPM

1000 RPM



Unique, extremely versatile, 2-speed drill featuring dual power take-offs.

Works efficiently with any high or low speed attachment. Simply insert chuck into high-speed power take-off for effortless drilling through steel, wood, aluminum, brass, or copper; insert chuck into low-speed power take-off for drilling through such materials as masonry and concrete. Removable extra grip-handle included for maximum ease of handling at either speed. Squeeze-type momentary contact switch with convenient "lock-on" button; comfort-grip "D"-type handle. High speed, 3000 rpm; low speed, 1000 rpm. Overall length, 12 1/4". 6-ft. heavy-duty rubber-covered cord. U.L. Approved. For operation from 110-120 volts AC-DC. Shpg. wt. 5 lbs.

46 N 947. List, \$29.95. NET.....22.01

HIGH-SPEED COPE-SAW BITS



A remarkably versatile, all-purpose bit for use with any 1/4" or 1/2" electric drill, including drill presses. Made of the finest abrasive-resistant steel, it drills, saws and reams in practically any material. Easy to use since it drills its own starter hole. Cuts circles, ovals, squares, scrolls and all types of unusual holes. An extremely helpful tool for the serviceman, woodworker, electrician and hobbyist. Excellent for making cutouts in record changer boards, speaker enclosures and equipment panels. The three models listed below have cutting edges especially shaped for the recommended types of material to be cut.

46 N 795. All-Purpose Bit. NET
46 N 796. Wood Bit. NET
46 N 797. Heavy-Metal Bit. EACH...1.77

MILLERS FALLS DRILL BITS



High-speed power bits for drilling large holes in hard and soft woods, plastics, tile, plywood, etc. Bits will cut through wire nails without damage. Designed for use with any 1/4" electric drill. Shanks are 1/4", milled for standard three-jawed chucks. Finely tempered high speed steel—holds edge ten times longer than ordinary tool steel. Cut fast and clean, even when cutting on an angle. Bits are easily resharpened on a grinding wheel. Depth of cut, 5" ideal for boring through floors or partitions. Overall length of bits, 6 1/2".

No. 8004 Power Bit Set. Set of 4 bits in convenient plastic roll. Sizes: 1/2", 3/8", 3/4" and 1". Shpg. wt., 3/4 lb.

46 N 366. List, \$5.25. NET.....3.75

No. 8006 Power Bit Set. Set of 6 bits in plastic roll. Sizes: 3/8", 1/2", 5/8", 3/4", 7/8" and 1". Shpg. wt., 1 lb.

46 N 367. List, \$7.80. NET.....5.12

No. 835 Power Bit Extension. Tough alloy steel extension shank, 1/4" in dia., 12" long. Fits all 1/4" power bits. Shpg. wt., 1 lb.

50 N 198. List, \$2.00. NET.....1.50

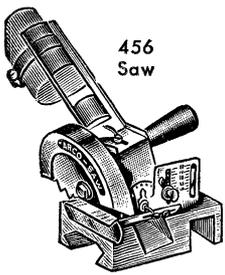
CENTURY MASONRY DRILL



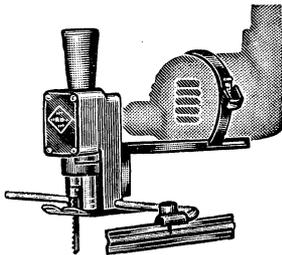
Drill L-56 18" Carbide Drill. Extra long for drilling 1/2" holes in brick, concrete, stone, etc. 4 1/4" flute. Carbide tip provides clearance for expansion shields, plugs, etc. Shank dia., 3/8". Shpg. wt., 1 1/4 lbs.

50 N 199. NET.....5.25

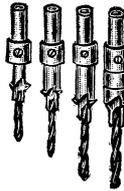
Power Drill Accessories



456 Saw



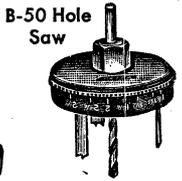
550 Jigsaw



Screw-Drills



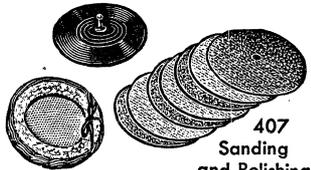
"Roto Plane"



B-50 Hole Saw



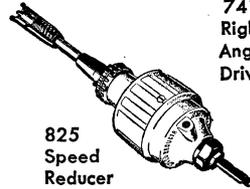
825 Drill Grinder



407 Sanding and Polishing Kit



741 Right Angle Drive



825 Speed Reducer



945 Budget Drill Press Stand

SHOP ATTACHMENTS FOR ELECTRIC DRILLS

Convert your portable power drill into a complete home workshop—and at a fraction of the cost of equivalent power tools. The accessories listed below are designed to attach easily and quickly. You can use your drill as a power saw, a power screwdriver, a power planer, a sander as well as a buffer and polisher.

You can drive wood, machine or sheet metal screws; cut holes in chassis bases, panels, ceiling or floors; drill between joists or shelves; plane across, with or against wood grain; cut plastics or metals; polish and sand; etc. These precision-made attachments are ruggedly built and designed for years of dependable service.

ARCO 456 SAW
Low-cost, high-quality saw attachment—designed to convert any 1/4" electric drill into a multi-purpose power saw. Has features normally found in power saws costing many times more. Has "Dado-Arbor" that swivels saw blade to cut any groove up to 1/2" wide by 1" deep in one cut; arbor easily removed when saw is to be used for accurate straight or angle cutting. Simple to attach. Adjustable for straight-cutting to depth of 1 3/4", rip gauge and bevel-tilt rip gauge from 0 to 45°. Includes sight for accurate cutting along guide lines. Gear case contains self-lubricating, lifetime bearings. Rugged, right-angle steel gear drive. Has extra-board base for steadier rest and exceptional ease of handling. Includes safety yoke. Can be used with one hand. An excellent choice for the budget-wise serviceman, home hobbyist, carpenter or mechanic. Supplied complete with 5" "Arco Safecut" blade. Wt., 4 lbs. 50 N 000. List, \$12.95. NET 8.63

"ARCO-SAW" REPLACEMENT BLADES
High-quality 5" replacement blades for Arco 456. Tempered tool steel; 1/4" bore. Wt., 1/4 lb.

Stock No.	Type	Description	EACH
50 N 001	250T	Safecut blade	1.23
50 N 002	252T	Crosscut blade	
50 N 003	253T	Rip blade	
50 N 004	255T	Combination blade	

ARCO 550 "JIG-SAW"
Versatile jig-saw attachment—has adjustable circle-cutter and rip-gauge. Fits any 1/4" electric drill. Cuts perfect circles up to 20" in diameter; rips up to 10" wide. Does work of jig, keyhole, coping, rip, crosscut, band and hacksaw. Cuts plywood, plastic, etc.—even 2x4 lumber. Air-blower keeps sawdust away from blade. Cuts openings for plumbing, switches, boxes, etc., without boring starting hole. An extremely valuable tool for hobbyists, carpenters, cabinet makers, electricians, etc. Has right-angle drive. Blades can be easily changed in seconds with an ordinary screwdriver. Complete with blade. Shpg. wt., 2 1/2 lbs. 50 N 231. List, \$10.95. NET 7.30

Extra Blades. For above jig-saw attachment. Assortment of six blades—2 coarse; 2 medium; 2 fine-tooth. For cutting plywood, wallboard, hard and soft woods, etc. Shpg. wt., 2 oz. 50 N 232. List, \$1.95. NET 1.30

ARCO SCREW-DRILLS
Combination pilot hole drill and countersink. Drills proper size hole for woodscrews indicated; also drills countersink. Adjusts to length of screw. Vanadium steel bit; 1/4" shank. *Wood-screw size. Av. shpg. wt., 2 oz.

No.	Type	*For	1-5, EA.	6-Up, EA.	
50 N 010	1106	#6	75c	65c	
50 N 011	1108	#8			
50 N 012	1110	#10			
50 N 013	1112	#12			
50 N 014. Set of 4 drills above. 6 oz.					
				1 to 5 Sets, PER SET.....	2.84
				6 or More Sets, PER SET.....	2.46

ROTEX "ROTO-PLANE" ATTACHMENT.
High-quality precision planer attachment for use with 1/4" electric drill. Fine for home craftsmen, carpenter, hobbyists, etc. Planes at any angle; easily glides with, across, or against grain of wood. Depth of cut is completely adjustable (0° to 1/8"). Guide edge provides automatic planing at a true 90 degrees—simplifies wood jointing. Diagonal shearing action eliminates deflections from knotholes, etc. Specially designed, 6-flute, spiral steel cutter is deep hardened and precision ground. Planing width, 1 1/2". Entire unit is lightweight and perfectly balanced for fatigue-free handling. Has die-cast aluminum housing. With heavy-duty, permanently oil-impregnated bearings. Attractive baked hammerloid finish. With instructions. Shpg. wt., 3 lbs. 45 N 872. List, \$11.95. NET 8.78

ROTEX B-50 HOLE SAW
An adjustable hole-saw attachment featuring a unique dial adjustment. Greatly increases the usefulness of any 1/4" electric drill or drill press. Valuable aid to the hobbyist, serviceman, home craftsman, etc. Easily cuts holes from 1 1/2" to 2 1/2" in 1/4" steps, cleanly and without ragged edges. Just dial the size you want and start cutting! Sturdily constructed of heavy gauge steel for rugged use. Rabbeting or planing can be done by simply removing starter drill. Will cut to 1 1/2" depth. Shpg. wt., 1 1/2 lbs. 45 N 879. List, \$6.95. NET 5.11

G-H DRILL GRINDING TOOL
Model 825. Drill-holding jig. Holds drill in correct position for accurate repointing and sharpening. Use with either hand or electric grinder. Jig bolts to table or bench. Handles these drill sizes: Fractional—1/8" to 3/4"; Number size—No. 30 to No. 1; Letter size—A to Z; Millimeter size—3.0 to 19.0. Positive indexed angle adjustment for almost any type of work: 88°—for thin sheets or hard materials; 68°—for high production use for drill 1/4" or smaller; 59°—for general purpose drilling; 49°—soft materials (copper, etc.) and CSK angle for countersinks, wood, hard rubber, fibre, etc. Attachment is fully adjustable and ruggedly built. Shpg. wt., 2 lbs. 46 N 106. NET 5.34

BABCO SANDING AND POLISHING KIT
Model 407. Complete sanding and polishing kit that can be used with any electric power drill. Takes most of the work out of wood or metal finishing operations. Extremely handy for the home craftsman, hobbyist, handyman, etc. It sands, smooth-buffs and polishes with assorted sanding discs and a genuine, high-quality lambswool bonnet. Kit permits completing sanding and buffing operations in a fraction of the normal time. Has a 5" rubber backing pad (fits into chuck of drill), 6" lambswool bonnet and 7 assorted sandpaper discs. With instructions. Shpg. wt., 10 oz. 46 N 364. List, \$1.95. NET 1.43

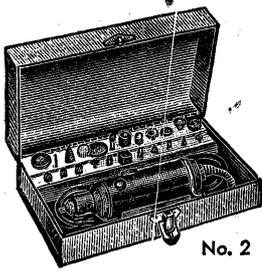
BABCO 825 5-1 SPEED REDUCER
A high-quality instantly reversing 5-to-1 speed reducer. Will fit any 1/4" electric drill or any drill press. Very useful attachment for any hobbyist, electrician, mechanic, plumber, carpenter, general maintenance worker, etc. 5-to-1 gear reduction produces large torque increase; provides more power at slower speed. An excellent tool for a wide variety of jobs. Dies or removes up to No. 14 screws easily. Saves time when assembling right or left-hand threaded parts, drilling masonry, drilling holes in wood, etc. Has 1/4" tap capacity; reversing feature makes this an excellent tool for hole tapping. Complete with 1/4" adapter, 1/4" adapter, screwdriver bit with finder sleeve for medium size slotted screws, sleeves to adapt collet chuck of speed reducer to fit tap sizes from 3/16" to 1/4", and sleeves to fit most popular slotted and Phillips type screwdriver bits. Shpg. wt., 1 lb. 50 N 005. List, \$13.95. NET 10.05

BABCO 741 RIGHT-ANGLE DRIVE
Right-angle drive unit designed for use with electric drills. A low-cost accessory that greatly increases the versatility of any electric drill. Unusually handy for drilling in confined spaces, such as between joists or shelves, crowded radio and TV chassis, etc. Highly recommended for radio-TV servicemen. Amateurs, electricians, plumbers, home owners, etc. Saves time and the hassle of easy guiding of drill and exerting pressure. Easy to attach. Chuck is unscrewed from electric drill and screwed on right-angle drive unit. Drive unit (3/8"-24 female threaded) is then screwed on to drill spindle. Provides choice of 2 speed ratios—halves drill speed for sanding wood or polishing painted surfaces; doubles speed for efficient sanding of metal surfaces. Shpg. wt., 1 lb. 46 N 268. List, \$4.49. NET 3.30

BABCO DRILL PRESS STAND
Model 945. Drill stand—converts any 1/4" pistol grip electric drill into a lever operated drill press. A terrific value! Saves time and labor on many jobs—useful for routing, shaping, sanding, etc. More accurate, less tiring than use of hand-held drill. Your power drill can be quickly and easily installed in the bracket clamp of the stand—removed in seconds when needed for hand work. Base has mounting ears for securing stand to work bench. Bracket adjusts to desired height. Has positive-action locking to hold drill at height selected. Spring-return tension. Has 2 1/4" stroke. Drill press head stays rigid in position—only slide moves. Take-up gib on slide maintains precision fit for smooth operation. Handle provides up to 15 adjustment. Depth gauge dial is double actual size; calibrated to pinion gear—makes it easy to gauge depth of hole being drilled. Adjustable depth stop permits drilling holes to identical depths. Base has slot for drill bit clearance and key slots for bolting work to base when necessary. Shpg. wt., 10 oz. 50 N 233. List, \$13.95. NET 10.05

Power Tool Kits—Drill Accessories

VERSATILE POWER TOOL KITS

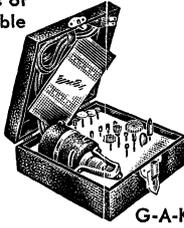


No. 2



For Years of Dependable Service

V-760



G-A-K

DREMEL MOTO-TOOL KITS

- Pocket-Size Machine Shops
- For Home or Industrial Use

Moto-Tool Kit No. 2. Offers a powerful tool for industrial and other heavy-duty jobs. Features a sturdy, 27,000-rpm rotary motor—operates dependably under long periods of continuous use. A time-saver in the tool room, industrial lab, production line, etc. Widely used by tool-and-die makers, machinists, hobbyists, etc. Works well in wood, metal, plastics, leather, glass, etc.

The wide assortment of attachments in this kit includes emery wheel points, wire and fibre brush, mandrels, drum sander and a variety of high-speed steel cutters. Collet chuck with lock pin, makes it easy to quickly change attachments. Self-aligning bearings are mounted in felt oil retainers—require minimum oiling. Moto-Tool No. 2 is lightweight and easy to manipulate. Fits the hand, weighs only 13 oz.

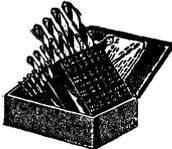
Kit comes complete in attractive, gray-enamelled metal box. Size, 3x9/4x3 1/2", deep. With instructions. For 110-120 volts, AC or DC. Shpg. wt., 4 lbs. **46 N 378. List, \$27.50. NET.....21.49**

Moto-Tool Kit No. 1. As above, but designed for light-capacity grinding, polishing, etc. Popular with model makers, lab technicians and hobbyists. Numerous attachments supplied with this kit make it possible to do precision jobs in much less time. Collet chuck. Complete with 34 accessories. For 110-120 v., AC or DC. Shpg. wt., 3 1/2 lbs. **46 N 377. List, \$23.50. NET.....18.52**

CENTURY "MAGIC BLACK" MECHANICS' DRILL SETS



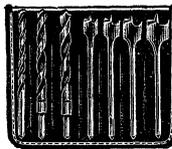
7-Drill Set



13-Drill Set



Drill Only



Auger Bit Set



Masonry Set

Complete assortment of top-quality drill bits. Feature "Magic Black" temper to insure extra wear and keep points sharp longer.

7-Drill Set. 7 drills, 1/16" to 1/2" in 1/16" graduations. Shank sizes same as drill diameters. Supplied in handy, hinged, clear plastic container. All units are conveniently indexed so that desired drill bit can be located immediately. Shpg. wt., 6 oz. **46 N 784. NET.....2.55**

5-Drill Set. Includes 5 drills, 1/4" to 1/2" in 1/16" graduations. Has 1/4" diameter shanks. With handy, indexed container of transparent plastic; drill bits are easily visible for quick selection. Shpg. wt., 1 lb. **46 N 785. NET.....7.70**

13-Drill Set. Includes 13 drills, 1/16" to 1/2" in 1/16" graduations. Packed in Huet Index Drill Case. Opens like a book with every drill instantly accessible and identified. Case size, 4 1/2x2 1/4". Shpg. wt., 9 oz. **46 N 782. NET.....5.19**

15-Drill Set. 15 quality drills, 1/16" to 1/2" in 1/16" graduations. Sizes over 1/4" have 1/4" shank. Huet Case has space for 14 more drills in 1/16" graduations. Case, 7x4x1 1/2". Shpg. wt., 3 lbs. **46 N 786. NET.....15.17**

60-Drill Set. Complete assortment of 60 drills, in drill sizes 1 to 60. Packed in a steel Huet Index Drill Case for protection and maximum accessibility. Case opens like book for quick selection of desired bit. Size of case, 4 3/4x3 3/4x2 1/8". Shpg. wt., 1 1/4 lbs. **46 N 717. NET.....19.30**

BURGESS V-760 TOOL KIT

- Hundreds of Uses
- For Home and Industry

Marking, engraving and craftsman's kit. Ideal for many industrial identification applications as well as servicing and hobbyist uses. Kit includes Burgess Vibro-Tool, ten all-purpose attachments and sturdy steel storage case. Extremely compact and easy-to-carry. Uses include: jewelry engraving; tool and instrument marking; decorating and engraving metal and glass; embossing metal; marking bottles and glass slides; copper and steel plate etching; leather tooling and cutting; stencil and pattern cutting; wood engraving, etc. For 110-120 volt, 60 cycle AC. Shpg. wt., 3 1/2 lbs. **46 N 290. List, \$14.95. NET.....9.77**

THOR G-A-K TOOL KIT

This very moderately priced 28-piece power tool kit has literally thousands of uses in the shop, garage, and home. The heart of this extremely versatile kit is the Speedway Speed-Grinder. It has a powerful AC-DC 20,000 rpm motor; self-aligning bronze bearings for long life and dependable service. Convenient side-type switch. The ideal tool for precision cutting, grinding and polishing of small or intricate parts. Complete kit includes: 4—grinding stones; 4—cutting burrs; 3—brushes; 1—polishing tool; 2—mandrels and 12—sanding discs. Complete with wood case and instruction manual. For operation from 110-120 v., 60 cycle AC or DC. Shpg. wt., 2 1/2 lbs. **46 N 365. List, \$16.95. NET.....12.30**

COASTAL WIRE WHEELS AND BRUSHES



A



B



C

Wire wheels and brushes for home and industrial use. For any electric drill or grinder that will accept a 1/4" shaft. Both wheel and cup type brushes are stocked in fine and coarse grades. Type Nos. ending with "C" are coarse. Those ending in "F," fine. Excellent for removing rust and oxide coatings before painting or plating. *Similar to Fig. A, but has shank.

Stock No.	Fig.	Type	Dia.	Mtg.	Oz.	NET
50N 023	*	91CF	2"	1/4" Shank	4	.59
50N 024	*	91CC	2"	1/4" Shank	4	.54
50N 026	*	91EF	3"	1/4" Shank	6	.69
50N 027	*	91EC	3"	1/4" Shank	6	.67
50N 028	B	92C	2"	1/4" Shank	4	.89
50N 029	A	92F	3"	1/4" Shank	4	.89
50N 201	A	994C	4"	1/2" Bore	8	.69
50N 202	A	996F	6"	1/2" Bore	12	1.25
50N 203	A	996C	6"	1/2" Bore	12	1.03

Muslin Buff. High quality 6" muslin buffing wheel and bar of jewelers rouge in sealed plastic bag. Ideal for the craftsman or the hobbyist. For buffing and polishing silver, copper, brass, etc. Has 1/2" bore, can be used with arbor listed below. Shpg. wt., 4 oz. **50 N 204. List, \$1.10. NET.....81c**
50 N 205. As above, but 4" dia. 3 oz. **NET.....49c**

725 Arbor. For holding wire and buffing wheels shown above. Has 1/4" shank, 1/2" body. Can be used with any 1/4" capacity electric drill. Machined body and nickel plated body. Packed in clear plastic bag. Shpg. wt., 8 oz. **50 N 206. List, 60c. NET.....44c**

Bag of 5" Assorted Sanding Discs. 8 sanding discs in useful plastic bag. 8 oz. **50 N 207. NET.....23c**

KNEISLEY MINIATURE DRILL SET



wt., 6 oz.

46 N 799. NET.....6.29

Type KS-1115 Carbon Drill Set. 20 drills—No. 61 through No. 80 (63° to 10135°). An indispensable set for extremely fine drilling jobs. Hardened by unique method, assuring precision production. Finest grade carbon steel used. Set includes 4-jaw chuck with 1/2" shank for using drills in standard chucks. Molded lucite case. Shpg.

MILLERS FALLS COUNTERSINK



Shpg. wt., 6 oz.

46 N 156. List, \$1.65. NET.....1.22

Model 710. Made of fine-grade high-speed steel. For use in any material ordinarily machinable with a high-speed cutter. Cuts fast and clean in soft steel, iron, wood and similar materials. Has 5 carefully ground flutes for fast cutting at 82° angle for wood and machine screws. Shank, 1/4". Fits any brace or drill. Overall length of unit is 2 1/2".

GENERAL HARDWARE

AUTOMATIC CENTER PUNCH



Shpg. wt., 5 oz.

46 N 195. NET.....3.10

Model 79. Hand pressure on handle triggers powerful spring, which drives punch. Perfect for accurate center punching in tight spots. Extremely valuable to the builder. Simply turn top of handle to adjust tension for light or heavy punch. Size, 1/2" dia. x 5". Replaceable point. Shpg. wt., 5 oz.

GENERAL HARDWARE

SELF-CENTERING PUNCH



saving tool for the serviceman, repairman, builder, etc. Shpg. wt., 2 oz.

46 N 218. NET.....38c

Model 806. For use with hardware having counter-sunk mounting holes—hinges, switch plates, etc. Tapered end of punch fits into hole and automatically locates correct center. Just tap plunger pin and work is accurately marked. Made of cadmium-plated steel; plunger pin is tempered-steel. A handy, time-

SPECIAL-PURPOSE DRILL SETS

7-Piece Auger Bit Set. 1/4" to 1" in 8ths. Have 1/4" shanks to allow use in standard 1/4" electric drill. In convenient, space-saving plastic roll. Shpg. wt., 11 oz. **46 N 719. NET.....3.94**

4-Piece Masonry Drill Set. 1/4", 3/8", 1/2" and 5/8". 1/4" shanks fit standard 1/4" electric drills. Carbide tips for drilling concrete, bricks and plaster. In plastic roll. Shpg. wt., 5 oz. **46 N 718. NET.....3.17**

Chrome Steel Drill Bit Set. Set of 5 chrome-alloy steel bits for electric drills. For use on aluminum and other soft metals. Sizes, 1/4", 3/8", 1/2" and 5/8". Have 1/4" shanks. In hinged, clear plastic box. Shpg. wt., 1 lb. **46 N 787. NET.....3.18**

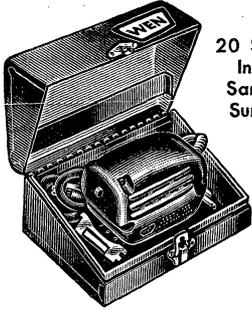
"MAGIC BLACK" INDIVIDUAL DRILLS

High-speed drill bits in sizes from 1/16" to 1/2". Feature "Magic Black" super-hard temper. Drills packaged in plastic. Sizes over 1/4" have 1/4" shank. Av. shpg. wt., 3 oz.

StockNo.	Size	NET	StockNo.	Size	NET
46 N 723	1/16"	.17	46 N 734	1 3/8"	.48
46 N 724	3/32"	.19	46 N 735	1 1/2"	.52
46 N 725	1/8"	.20	46 N 737	3/4"	.68
46 N 726	3/16"	.20	46 N 739	5/16"	.82
46 N 727	1/4"	.23	46 N 741	1 1/2"	1.00
46 N 728	5/16"	.24	46 N 743	3/8"	1.12
46 N 729	3/8"	.25	46 N 745	1 3/8"	1.37
46 N 730	1/2"	.29	46 N 747	7/16"	1.55
46 N 731	5/8"	.39	46 N 749	1 3/4"	1.81
46 N 732	3/4"	.42	46 N 781	1 1/2"	1.99
46 N 733	7/8"	.46			

Power Sanders and Accessories

WEN POWER SANDER KITS



20 Square Inches Sanding Surface

MODEL 404 HEAVY-DUTY KIT

Heavy-duty kit for rough sanding or for fine finishing. 20 sq. inches of sanding surface. Has powerful, smooth operating, vibrator-type motor; 14,400 strokes per min. Positive straight-line motion all the way into inside corners. Comfortable grip fits the palm. Self-tightening clamp pulls and tightens paper and locks it into position. Size of sander, 6 $\frac{1}{2}$ x3 $\frac{1}{2}$ x4". Weighs only 3 $\frac{3}{4}$ lbs. Smooth action and minimum vibration make overhead sanding jobs easier. Complete with 15 assorted sheets of sandpaper, 2 polishing cloths and steel carrying case. For operation from 110-120 volts 60 cycle AC. Shpg. wt., 6 $\frac{1}{2}$ lbs.

46 N 329. List, \$19.95. NET.....14.66

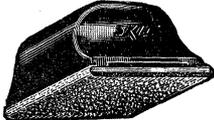
MODEL 303 MEDIUM-DUTY KIT

Smaller version of above. Extremely compact and light in weight—ideal for wide variety of medium and light-duty sanding jobs. Incorporates all of the quality features of the heavy-duty Model 404 and has vibrator-type motor of same highly dependable design. 13 sq. inches of sanding surface; weighs only 2 $\frac{1}{2}$ lbs. Size, 3 $\frac{1}{2}$ x5 $\frac{1}{2}$ x2 $\frac{1}{2}$ ". With 12 sheets of assorted sandpaper, 2 polishing cloths and metal carrying case. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 3 $\frac{1}{2}$ lbs.

46 N 323. List, \$16.95. NET.....12.46

SKIL PERMA-GRIT TOOLS HAND SANDER KIT

Outlasts Hundreds of Sandpaper Sheets



New hand sander featuring remarkably efficient Perma-Grit sanding sheets. Tungsten-carbide grit cuts faster and easier than sandpaper. Grit resists clogging. With one fine and one medium-coarse sheet. 2 $\frac{3}{4}$ x5 $\frac{1}{4}$ " sanding surface. Shpg. wt., 1 $\frac{1}{4}$ lbs.

50 N 061. List, \$2.95. NET.....1.98

Extra Sheets. For above. Shpg. wt., 3 oz.

Stock No.	Type	Description	List	EACH
50 N 150	18764	Very fine		
50 N 151	18973	Fine grit		
50 N 152	18982	Medium	\$1.25	84c
50 N 153	18763	Coarse		

PERMA-GRIT FILES



Feature Perma-Grit tungsten-carbide abrasive for faster, easier filing of wood, plastics and composition. Self-cleaning action. Flat file is coarse on one side, fine on the other. Contour files are excellent for curved surfaces. Fine; *coarse. Shpg. wt., 8 oz.

Stock No.	Type	Description	List	NET
50 N 062	18730	Flat file	\$2.25	1.50
50 N 063	19859	*Contour, coarse	1.95	1.31
50 N 064	19860	†Contour, fine	1.95	1.31

PERMA-GRIT SAND SHEETS

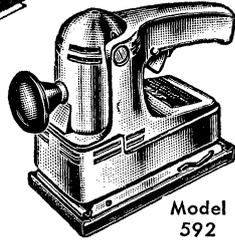
Long-life tungsten-carbide sand sheets for electric oscillating sanders. Standard size 3 $\frac{3}{8}$ x9" sheets. Conveniently pre-formed for easy changing. Shpg. wt., 5 oz.

Stock No.	Type	Description	List	EACH
50 N 154	18700	Fine		
50 N 155	18701	Medium		
50 N 156	18702	Med. Coarse	\$2.95	1.98
50 N 157	18703	Coarse		
50 N 158	18704	Very fine		



Sands and Polishes

Simple to Use



Model 592

MODEL 592 ORBITAL SANDER

Highly versatile orbital sander. The ideal electric sander for the professional wood craftsman, or the do-it-yourself hobbyist. Can be used for coarse or fine-finish sanding; also for polishing and buffing with the polishing pad listed below. May be used for paint and varnish removal.

Shape of sanding surface allows sanding all the way up to vertical edges and into inside corners. Powerful rotary motor delivers 5500 rpm and is practically stall-proof. Die-cast aluminum alloy housing is lightweight and rugged. Has trigger-type switch with convenient "lock-on" button. Extra handle permits applying added pressure and provides more control when sanding rough surfaces. Less sanding sheets. Uses standard 3 $\frac{3}{8}$ x9" sheets including Perma-Grit sheets, listed below left. Overall size: 6 $\frac{1}{2}$ x9 $\frac{3}{8}$ x3 $\frac{3}{8}$ ". For operation from 110-120 volts AC or DC. Shpg. wt., 7 lbs.

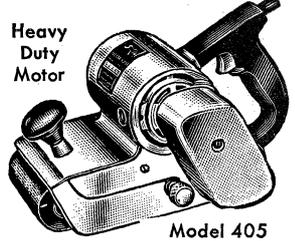
50 N 079. List, \$49.95. NET.....35.50

Polishing Pad. For above. Wt., 3 lbs.

50 N 096. List, \$1.50. NET.....1.07

QUALITY POWER SANDERS

Heavy Duty Motor



Model 405

MODEL 405 BELT SANDER

Professional-quality, 2-speed belt sander. Has plenty of power for any sanding job. An outstanding tool for hobbyists, carpenters and cabinetmakers. Speeds: 1100 and 800 r.p.m. The high speed is excellent for quick smoothing of large areas, or rapid sanding to size. The low speed will give satin-smooth finishes; also excellent for removing paint or varnish.

Husky universal motor transmits full power through precision-cut gears and rugged cog belt. Has ball and sleeve bearings for smooth, extremely dependable operation. Uses extra-wide 4" sanding belts. Flush design allows sanding right up to vertical edges. Simple locking device for quick, easy belt changing. Rugged lightweight, die-cast aluminum housing.

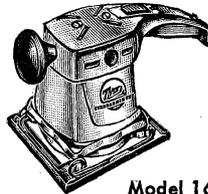
Overall size, 6 $\frac{1}{4}$ x6 $\frac{1}{4}$ x12 $\frac{1}{2}$ ". Equipped with 3-wire cord. Less sanding belts. For 110-120 v. 60 cycle AC, or DC. Shpg. wt., 16 lbs.

50 N X 077. List, \$89.50. NET.....63.50

Box of 10 Assorted Belts. Wt., 1 $\frac{1}{2}$ lbs. 50 N 078. NET.....4.98

THOR POWER SANDERS

- Powerful, Precision-Built Sanders
- Orbital Type—Duplicate Hand-Sanding Motion
- Smooth, Convenient Operation



Heavy-Duty Series-Wound Motor

Model 16

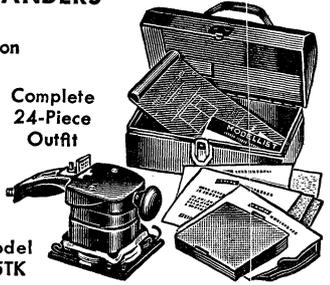
MODEL 16 SPEED SANDER

Powerful, heavy-duty, orbital sander. For hundreds of sanding jobs in the home or shop; may also be used for buffing and polishing. Compact lightweight and well balanced—ideal for vertical and overhead sanding. Easily does in minutes, sanding jobs that would require many hours of hard work when done by hand. $\frac{3}{8}$ " orbital action duplicates hand sanding motion. Gives smooth surface required for French finishing.

Features rugged 6200-rpm series-wound motor. Has sealed and shielded factory lubricated ball bearings for smooth operation and long life. Ventilating slots in top and sides of housing; motor runs cool even after long sanding operations. Sanding surface: 4 $\frac{1}{2}$ x5 $\frac{1}{2}$ "; requires 4 $\frac{1}{2}$ x9 $\frac{1}{2}$ " sandpaper. Convenient off-on slider switch on handle. Durable cast aluminum body for minimum weight and extra ruggedness. Overall size: 5 $\frac{1}{4}$ " high, 4 $\frac{1}{2}$ " wide, 9 $\frac{1}{2}$ " long. With 10-ft. 3-conductor cord. For operation from 110-120 v. AC or DC. Shpg. wt., 8 lbs.

47 N 097. List, \$42.95. NET.....29.47

Complete 24-Piece Outfit



Model 15TK

MODEL 15TK SANDER KIT

Versatile kit featuring the 15T sander. Makes any sanding job easier. Orbital motion and large sanding surface ideal for fast smoothing and fine finishing. Sands, finishes and polishes vertically or horizontally. The 15T can be used with wet or dry abrasives. Has powerful 2-pole 3450-rpm induction motor. Convenient push-button switch on handle. Rugged cast-aluminum body for light weight and easy handling. Sanding area 4 $\frac{1}{2}$ x5 $\frac{1}{2}$ " with $\frac{3}{8}$ " orbit. Requires 4 $\frac{1}{2}$ x9 $\frac{1}{2}$ " sandpaper sheets. Size of sander: 4 $\frac{3}{4}$ " high, 4 $\frac{1}{2}$ " wide and 9" long. Kit includes 18 assorted abrasive sheets; 2 free-abrasive felt pads useful for a variety of rubbing and polishing operations with special compounds; one neoprene contour pad (for curved surfaces); one lambs wool polishing cover and durable steel carrying case. For operation from 110-120 volts 60 cycle AC. Shpg. wt., 10 lbs.

46 N X 467. List, \$34.95. NET.....23.92

Model 15T Sander Only. 7 lbs.

46 N 375. List, \$24.95.....17.12

HUOT DRILL CASES

Sturdy drill cases for compact storage and quick selection of the right drill for the job. Ideal for shop, or home. Prevents misplacing drill bits and protects them from dirt and moisture. Holds drill bits securely even when bits are shortened by long use. Cases are made of heavy gauge steel. Index clearly shows drill sizes. Less drills.

60-Drill Capacity. Sizes, 1-60. For most-frequently-used small drill bits. Decimal equivalents and machine screw tap information included on heavy steel case. Size, 3 $\frac{1}{4}$ x4 $\frac{1}{2}$ x1". Shpg. wt., 1 lb.

46 N 790. NET.....1.84

15-Drill Capacity. $\frac{1}{16}$ to $\frac{1}{2}$ " in $\frac{1}{8}$ " steps. 4x 7x1 $\frac{1}{4}$ ". Wt., 2 lbs.

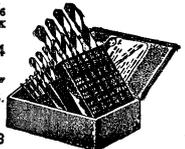
46 N 716. NET.....1.84

29-Drill Capacity. $\frac{1}{16}$ " to $\frac{1}{2}$ " by 64ths U.S. and S.A.E. tap info. Shpg. wt., 3 lbs.

50 N 084. NET.....2.18

13-Drill Capacity. Sizes, $\frac{1}{16}$ " to $\frac{1}{4}$ " in $\frac{1}{4}$ " steps. 2 $\frac{1}{4}$ x4 $\frac{1}{2}$ x3 $\frac{1}{2}$ ". Shpg. wt., 1 lb.

44 N 842. NET.....81c



Tools Totalling \$20.00 or More Are Available on Allied's Easy Payment Plan

Selected Quality Tools

NEW BURGESS DELUXE ELECTRIC SPRAYER KIT



- Complete, Ready to Use
- Precision-Ground Sapphire Nozzle
- Fast and Efficient, Easy to Use

Model VS-810. Multi-purpose electric sprayer kit designed to handle a variety of spraying jobs. The VS-810 will spray paints, varnishes, enamels, garden sprays and almost any liquid that can be applied by spraying. Convenient adjuster-knob regulates spray from heavy to extra-light. Accessory variable direction nozzle permits spraying up or down while holding sprayer level—a time and effort saving feature when spraying ceilings or hard to reach places. A special "fogging" nozzle shoots an extra fine mist stream—desirable when using mothproofers and insecticides.

Completely self-contained, requires no extra compressors or hoses. Operating mechanism sealed in a handsome brown, shock-proof, rust-proof housing. Trigger type switch for quick positive off-on action. 24-oz. graduated glass jar, 4-oz. glass container easily replaces large jar for touch-up and other small jobs. No need to dismantle spray gun for cleaning; simply spray solvent through gun and it is automatically cleaned. Gun assembly has a removable strainer over intake tube—keeps out paint lumps and dirt. Has genuine sapphire nozzle that resists abrasive action. Corrosion-proof stainless steel piston will not rust or foul—precision fitted for smooth operation.

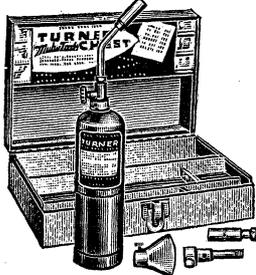
Kit includes spray gun with AC cord and 15-ft. extension cord, 24-oz. graduated glass jar, 4-oz. auxiliary touch-up jar, variable direction nozzle adapter, full set of spare parts including strainer attachment and special "fogging" nozzle. Also includes hand sander and instruction book. All in an attractive steel carrying case with folding handle and safety clasp. For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 8 lbs.

50 N 234, List, \$29.95. \$2.00 Down. NET.....19.97

Model VS-800 Spray Gun Only. Same high quality and workmanship as spray gun in kit above. Includes 24-ounce graduated jar and AC line cord. Shpg. wt., 3½ lbs.

50 N 235, List, \$12.95. NET.....8.63

TURNER PROPANE-GAS "MULTI-TORCH" KIT



Exceptionally safe, highly versatile propane torch kit. Complete with accessories for light and heavy duty soldering, heating and burning—like having four tools in one. All brass torch has heavy-duty valve with drag spring on knob for positive control of flame. Quick lighting propane provides a hot, clean flame. All brass flame spreader is easily attached to burner with screw, spreads flame to full two inches for paint burning or heating asphalt tile. Solid copper, chisel point solder tip screws into all brass socket for easy attachment to burner. Tip heats in seconds for quick soldering. Hot cutting tip also screws into socket attachment, is useful for cutting or scoring tile, removes putty like butter. Flame is controlled by hand screw, spreader, or frame. "Multi-Torch" kit supplied with tank of fuel, heavy-duty burner, soldering tip, flame spreader and cutting tip. In 3x10x6½" steel storage case. Shpg. wt., 6½ lbs.

50 N 081, List, \$9.95. NET.....6.95

DELTA HOMECRAFT WORKSHOP SAWS



- 34-600 9" CIRCULAR SAW**
- Ripping, Cross-Cutting, Mitering
 - Raising, Tilting Arbor
 - Self-Aligning Rip Fence

A professional-quality, 9" tilting arbor, circular saw for heavy-duty wood cutting applications. Ideal for the complete home workshop—rugged enough for commercial use in mill work and cabinet shops. Precision built to exacting specifications for consistent operation and lasting, dependable performance. The 9" combination blade makes smooth cuts up to 2¼" deep with ease. Blade can be tilted up to 45° (table remains level). Precision-ground and polished, ⅜" arbor is mounted in lifetime lubricated ball bearings. Height and angle of blade are easily read on calibrated dials. Table top measures 22 by 15". Unit is equipped with guide bars and self-aligning rip fence that features a micro-set dial for making fine adjustments. Also includes auto-set miter gauge with stop rods and clamp. The raising and tilting controls are easy to reach from the operating position. Overall dimensions, 17¼" high, 37½" wide and 36" deep. Unit is supplied complete with table insert, arbor pulley and wrenches. Less ¾-hp motor and table; see listings below. Shpg. wt., 105 lbs.

50 NZ 241, Only \$7.70 Down. List, \$99.50. NET.....76.95

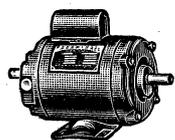
Complete 9" Tilting Arbor Circular Saw. A complete table saw installation consisting of the Model No. 34-600 9" tilting arbor circular saw with accessories as described above plus the following Delta equipment: 50-810 table stand, 34-671 blade guard, 34-974 table extensions, 5250 motor pulley, and 49-152 V belt. The ruggedly constructed table is 21½" high, 15" wide and 15" deep. Feet have provisions for bolting table to floor. Table extensions increase table size to 22 by 26—make it easier to handle wide panels. Blade guard has splitter and anti-kickback attachment. Less table casters and ¾-hp motor. Shpg. wt., 210 lbs.

50 NZ 242, Only \$12.20 Down. NET.....122.00

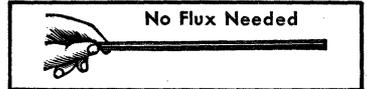
Motors for Circular and Band Saws. High quality capacitor starting motors for use with the Delta circular and band saws. Can be used with fans, blowers, pumps, etc. Have sealed ball bearings, cast-iron, drip-proof construction. Double ⅜" shafts for added versatility. With 8-ft. cord, plug and switch. For operation from 110-120 v., 60 cycle AC only.

50 NU 243, ¾-hp Motor. For 34-600 saw. Shpg. wt., 35 lbs. NET. 39.00

50 NU 244, ½-hp Motor. For 28-100 saw. Shpg. wt., 19 lbs. NET.....23.00



NEW CHEMALLOY FLUXLESS ALUMINUM SOLDER



- Solders and Welds Aluminum
- Extremely Strong Joints
- Safe and Easy To Use

New, easy-to-use solder joins aluminum products without need for metal cleaning or special fluxes. Ideal for repairing cracks or holes in plates and castings. Simplifies metal fabricating and work with aluminum chassis. Use heat source like propane torch, hot plate, or heavy soldering iron. Metals can be either soldered or welded, depending on application time of heat. Joints can be made stronger than the metals themselves. Any metal that takes soft solder can be joined to aluminum by coating the aluminum with Chemalloy. Can be used with very thin-gauge metal without burning. Special composition curbs any corrosion due to electrical effects and allows use as dry-bearing metal. 500° for thin-gauge metal, 800° for heavy work.

Stock No.	Unit	Temp.	Wt.	NET
50 N 083	2 bars	500°	3½ oz.	.59
50 N 085	2 bars	800°	3½ oz.	.59
50 N 086	bulk	500°	1 lb.	1.49
50 N 087	bulk	500°	5 lbs.	6.95

LENK BLOW TORCH



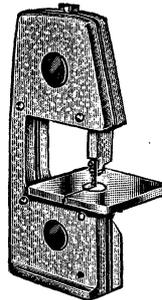
Model 108. Handy, small-size alcohol torch for light jobs. A valuable aid for the average home or light service work. Easily fits into coat pocket or tool chest. Copper heat conductor attached to wick insures instant starting. Curved nozzle on power tube is positioned over top of flame tube. Screw caps on top and bottom of flame tube permit quick filling and prevent leakage.

Double barrel self-priming. Both tubes made of heavy nickel-plated steel for long-lasting service. Screw-on cap protects nozzle when not in use. Burns either commercial or denatured alcohol. Economical fuel consumption. Overall size, 5½x2x1". Shpg. wt., 1 lb.

43 N 701, NET.....2.06

MODEL 28-100 10" BAND SAW

- Precision, Ball-Bearing Construction
- Tilting Table for Making Bevel Cuts
- Cuts to Center of 20" Circle



A precision-built, 10" band saw for straight line wood cutting where a big capacity is needed—and for curved and intricate cutting. An excellent addition to any wood working shop, this saw is ideal for the custom furniture builder as well as the home handyman. Built to professional standards to provide years of dependable service. Saw blade travels over three rubber-tired wheels that provide no-slip traction even under heavy loads. Wheels spin on precision ground, life-time lubricated ball bearings that are sealed against dust. Dynamic balancing of the wheels provides smooth, vibrationless operation. Blade rides against precision ground rollers that assure correct blade alignment for accurate cutting. Blade guard exposes only the cutting portion of the

blade. 12x11" table is adjustable up to 45° for angle cutting. Stop screw for perfect levelling assures true right angle cuts. Sturdy steel housing. With arbor pulley, 28-803 blade and wrenches. Less ½-hp motor, see listing at left. Shpg. wt., 70 lbs.

50 NZ 245, Only \$6.00 Down. List, \$64.95. NET.....49.95

Complete 10" Band Saw. A complete band saw assembly consisting of the Model No. 28-100 10" tilting table band saw with accessories as described above plus the following Delta equipment: 50-328 table stand, 5275 motor pulley, 49-130 V belt and 1334 switch rod. Ruggedly constructed table is 29" high, 8" wide and 16" deep. Less ½-hp motor, see listing at left. Shpg. wt., 113 lbs.

50 NZ 246, Only \$6.50 Down. NET.....64.95

Model 28-803 ¼" Band Saw Blade. Replacement blade for Model 28-100 band saw. Made of high quality steel, tempered to correct hardness. 7 teeth per inch for all types of wood cutting. 71¾" long. 2 lbs.

50 N 247, NET.....1.34

Model 28-810 Sanding Attachment. Use with abrasive belt below to convert band saw to sander. Complete with flat and curved platens with guides and mounting bracket. Permits satin smooth sanding of curved, irregular surfaces cut on band saw. Shpg. wt., 2 lbs.

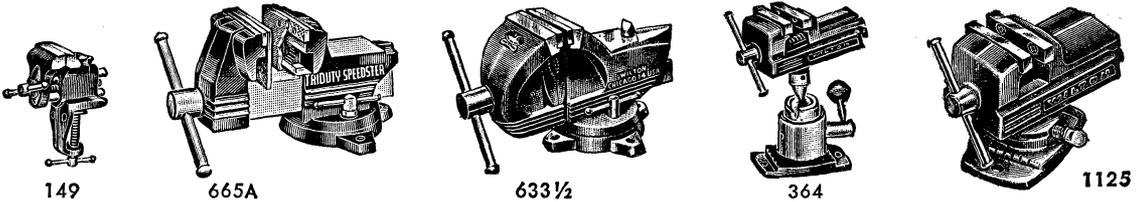
50 N 248, NET.....2.09

Model 28-811 Abrasive Belt. 80 grit, fine garnet for smooth sanding. ½" wide by 70" long. 5 per package. Shpg. wt. per pkg., 2 lbs.

50 N 249, NET PER PKG.....2.49

Allied can supply any Delta home workshop power tools not listed here, on special order. Write for literature and prices.

SHOP AND BENCH VISES



BRINK & COTTON NO. 149 VISE

Compact clamp vise ideally suited for radio work. Securely holds small parts for soldering, filing, cutting, etc. Smooth, easy action. Can be clamped to bench or table up to 2" thick. Jaws are 1 3/4" wide, open to 1 3/4", and are machined to meet squarely for a firm grip. Shpg. wt., 2 3/4 lbs.
46 N 015. NET.....1.50

MILLERS FALLS NO. 217 VISE

For holding work on drill-press bed or work bench. Radiomem find it perfect for holding parts to be soldered, sawed or drilled. Sturdy steel jaws are 2 3/4" wide. Have parallel faces extending to 3 1/2". Removable swivel jaw bar type handle and fine thread on screw give excellent leverage for solid, reliable grip on work. Shpg. wt., 5 lbs.
46 N 064. NET.....7.17



Model 665A Vise. An excellent tool for the home workshop. Three rapid-acting vises—woodworking, metal working and pipe vise all rolled into one. Removable fiber-board jaw faces clamp wood without marring. 3" wide serrated steel jaws provide powerful grip for metal jobs. Built-in pipe jaws hold pipes of 1/2" to 2 1/2" dia. Jaws are 3 1/4" deep. Max. jaw opening 5 1/4". Swivel base. Enamel finish. Shpg. wt., 35 lbs.
46 NU 953. NET.....17.64

Model 663 1/2. As above but 3 1/2" jaw. Opens to 3 3/4". Shpg. wt., 19 lbs.
50 N 148. NET.....10.90

Model 633 1/2 Vise. Durable "Shop-King" utility vise for all types of metal work. A fine value for the home workshop. Has removable pipe jaws, serrated top jaws, wire cut-off tool and locking 360° swivel base. Jaws are 3 1/2" wide; open to 4". Pipe jaws accept pipes from 1/2" to 1 1/2" dia. Smooth action opening and closing—slide-bar spins with one hand. 4 built-in mtg. lugs. Shpg. wt., 20 lbs.
46 NU 866. NET.....9.33

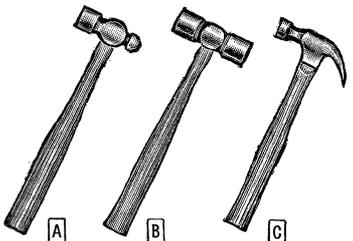
Model 634 Vise. As above, but 4" jaw. Opens to 4 1/4". Shpg. wt., 30 lbs.
46 NZ 867. NET.....13.56

WILTON QUALITY VISES

Model 364. Vise and Positioner. Power-built utility vise mounted on famous PowRArm positioner. Excellent combination for work on small electronic assemblies or parts. Single-handed release of positioner level-bar permits rotating or tilting tool to any desired angle. Tightening of lever bar freezes work solidly in place. Provides a second pair of hands for production workers, servicemen or home craftsmen. Permits single clamping of work in vise. Positioner is cadmium-plated steel. Capacity, 15 lbs. Vise jaws are smooth steel; 2 1/4" wide; open to a maximum of 2 1/4". 5 lbs.
50 N 149 NET.....10.66

Model 1125. Low-cost, exceptionally useful vise for the home workshop. Quality constructed to handle most types of light, general work. Sturdy one-piece body is equipped with protected screw and removable steel jaws. Jaws open to a maximum of 2 1/4". Jaw width, 2 1/4". Smooth action opening and closing controlled by slide-bar which can be spun with one hand. Easy-turn swivel base allows unit to be swung instantly to any desired position. Heavy-duty thumbscrew locks it securely in place. Attractive, baked red enamel finish. 2 mtg. holes in base. Shpg. wt., 5 1/4 lbs.
46 N 896. NET.....3.90

VLCHEK QUALITY HAMMERS



A HB816 Ball Peen Hammer. Top-quality mechanics hammer with handsome forged design. 1-lb. head is heat-treated for maximum durability. Highly polished face, poll, and peen. White hickory handle with clear lacquered finish. Length, 14". Shpg. wt., 1 1/2 lbs.
50 N 129. NET.....2.28

B HM16 Soft Face Hammer. Plastic-faced hammer for driving bushings and wrist pins, body bumping, straightening bent chassis, etc. Steel head has 1 3/8" dia. faces of red vinyl and amber tennite. Will not mar aluminum or soft metals. Hickory handle. Length, 14". Shpg. wt., 1 lb.
50 N 161. NET.....2.53

C HC813 Claw Hammer. A deluxe claw hammer featuring modern octagon neck design and polished face, poll, sides, and back of claw. Unpolished surfaces finished in burgundy enamel. Selected hickory handle finished with clear lacquer. Hardened steel head is double-wedged to handle to prevent loosening. Claws split to fine point to pull small nails. Expertly drawn and tempered for extra strength. Head weight, 13 oz. Handle length, 13". Shpg. wt., 1 1/2 lbs.
50 N 162. NET.....2.65

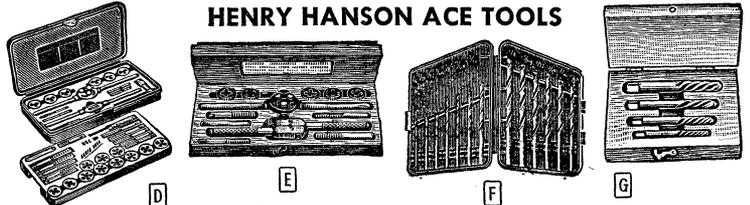
GREAT NECK CLAW HAMMER



One-Piece Construction

Model R-16C. Deluxe, well balanced claw hammer. One-piece construction eliminates possibility of head loosening. Precisely tempered claws split to fine point for easily pulling small nails. Mirror-polished, hardened head cannot loosen. Has rubber cushioned handle for secure grip and excellent shock absorption. Highest quality forged tool steel construction. Overall length, 13". Shpg. wt., 1 1/2 lbs.
45 N 848.3.19

HENRY HANSON ACE TOOLS



TAP AND DIE SET

D Model 614V. Complete set of high-quality, popular size taps, dies and accessories—39 pieces in all. Contains 1 each tap and die; 4-36, 6-32, 8-32, 10-24, 10-32 and 12-24 (Machine Screw Standard) 1/4-20, 5/16-18, 3/8-16, 7/8-14 and 1 1/2-13 (NC U.S. Standard) 1/2-28, 3/4-24, 1-24, 1 1/2-20 and 2-20, NF (S.A.E. Standard) 1/2" pipe. Includes die stock, tap and reamer wrench, "T" tap wrench, screwdriver and screw pitch gauge. Dies are V-notch adjustable. Green plastic case. Shpg. wt., 4 lbs.
46 N 245. NET. Only \$2.14 Down....21.38

RADIO TAP AND DIE SET

E Model 21. 12-piece set covering basic threads most often used in radio work. An excellent, low-cost set for the radio serviceman, hobbyist, experimenter, or engineer. Includes 1 each plug tap and die, sizes 6-32, 8-32, 10-24, 12-24, 1/4-20. Dies are solid type. 1" dia. High carbon, tempered steel assures long tap life. In mahogany box. Shpg. wt., 3 lbs.
46 N 025. NET.....6.38

HIGH-SPEED DRILL BITS

F Model 113. Set of 13 high-speed drill bits, 1/16" to 1/2" in 1/16" graduations. Carefully tempered and precision-ground to assure long life. Complete with convenient, hinged plastic case. Shpg. wt., 6 oz.
50 N 059. NET.....4.45

SCREW EXTRACTOR SET

G Model 20. For clean, easy removal of broken screws, bolts, studs and pipes that resist regular methods. A hole is drilled into broken piece, using correct drill size marked on extractor. Turning extractor counter-clockwise removes broken piece on its own threads. No damage to threaded hole results. Set contains 4 extractors in polished hardwood box. Removes screws 3/8 to 3/4" in dia. Also, 1/8" and 1/4" pipe. Extractors are tough alloy steel. Shpg. wt., 1 lb.
46 N 264. NET.....1.58

INDIVIDUAL TAPS AND DIES

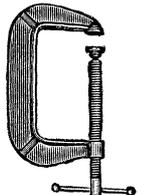
High-quality taps and solid dies for all-purpose use. Tough carbon steel. Right-hand thread. Shpg. wt., 2 oz.

Size	Tap	EACH	Die	EACH
4-36	46 N 700	26¢	46 N 706	37¢
6-32	46 N 701	26¢	46 N 707	37¢
8-32	46 N 702	26¢	46 N 708	37¢
10-32	46 N 703	30¢	46 N 709	37¢
10-24	46 N 703	30¢	46 N 710	37¢
1/4-20	46 N 705	34¢	46 N 711	37¢

Tap Wrench. "T" handle tap wrench for above taps. Sliding bar handle with spring tension gives plenty of leverage. Can be adjusted for one or two hand operation. Wt., 4 oz.
46 N 713. NET.....45¢

BRINK & COTTON CARRIAGE CLAMPS

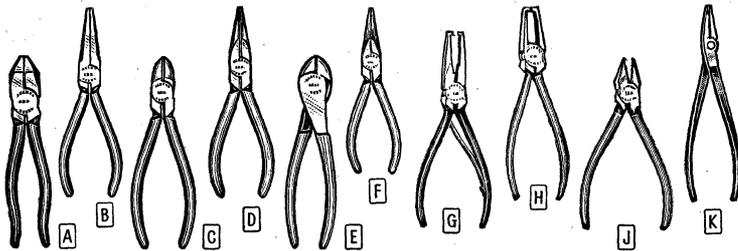
Sturdily-constructed "C" clamps of high-grade malleable iron. Extremely useful in shop or home for cabinet work, boat building, wood gluing, etc. Hold separate pieces of work securely in exact alignment for drilling, bending, soldering, or sawing. Have greater than usual throat depth and two heavy reinforcement ridges at corners. Permits deeper reach and greater pressure in clamping. Clamp screws have standard V threads and sliding vise-type handles. Maximum required pressure may be applied by hand alone. Rocking swivel pads at screw ends are excellent for equalizing pressure when clamping on irregular surfaces. Type 141 has screw diameter of 1/4"; Type 142, 3/8"; Type 143, 1/2" and Type 242, 3/8". Type 242 is especially rugged for heavy duty applications.



Stock No.	Mfrs. Type	Capacity	Depth	Wt. Oz.	NET EACH	Stock No.	Mfrs. Type	Capacity	Depth	Wt. Oz.	NET EACH
50 N 163	141	1"	1 1/4"	3	21¢	50 N 165	143	3"	2"	12	60¢
50 N 164	142	2"	1 1/8"	4	29¢	50 N 166	242	2"	1 1/8"	8	45¢

Quality Pliers and Wrenches

KRAEUTER HIGH-QUALITY INDUSTRIAL TOOLS



A complete selection of famous Kraeuter tools for radio-TV work, servicemen, technicians, production lines—anywhere high-quality, dependable tools are required. Hammer forged from high grade tool steel and precision finished. All have resilient, acid and grease resistant, vinylite "Cushion-Grip" handles and polished heads. Av. shgp. wt., 1 lb.

Stock No.	Fig.	Type	Description	NET
46 N 400	A	1830	6½" Electrician's Side Cutting Pliers	2.21
46 N 408	A	1801	8½" Linemen's Side Cutting Pliers	3.38
50 N 110	T	4625	5" Needle Point Diagonal Cutters with Spring Handle	2.86
46 N 402	C	4507	5" Narrow Head Diagonal "Oblique" Cutters	2.86
46 N 403	C	4501	6" Narrow Head Diagonal "Oblique" Cutters	2.39
46 N 414	C	2612	6½" Wire-Stripping Notched Diagonal Cutters	2.76
46 N 410	E	4610	7" Heavy-Duty Diagonal Cutters	2.36
46 N 413	B	1741	6" Long Flat-Nose Pliers (no cutter)	1.91
46 N 401	D	1661	6" Long Chain Needle-Nose Pliers (with cutter)	2.36
46 N 404	D	1671	6" Long Chain Needle-Nose Pliers (no cutter)	1.91
46 N 419	F	1663	6" Radio and Ignition Nose-Cutting Pliers	2.50
50 N 111	K	71	8" Long Reach Short-Jaw Nose-Cutting Pliers	2.91
50 N 112	G	1650	6" Long Jaw Transverse End-Cutting Pliers	2.76
50 N 113	H	5627	5½" Resistor Terminal End-Cutting Pliers	2.57

KRAEUTER 10" JOINT PLIERS



Type 710. Extremely versatile, slip-joint pliers. Drop-forged tool steel. Five parallel adjustments from 3/8" to 1 3/8". "TV" section for added strength in lower jaw. Milled teeth assure firm, non-slip gripping. Polished finish. 10" long. Shgp. wt., 10 oz.

46 N 421. NET.....2.20

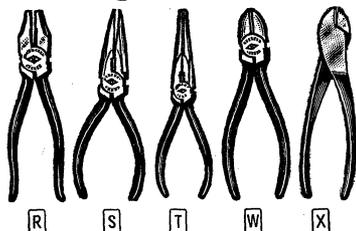
KRAEUTER PATTERN SNIPS



Type K-13. Combination pattern snips. Designed to cut either curved or straight lines in sheet metal, plastics, rubber, leather, etc. Drop forged from top-quality tool steel. Carefully heat-treated. Blades stay sharp and have uniform shearing action over their entire length. Pocket sized—only 7" long. 1 3/8" cut. Shgp. wt., 10 oz.

46 N 422. NET.....1.75

NEW knight TOP-VALUE PLIERS

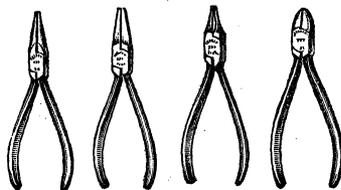


- Unsurpassed Tool Values
- One-Year Guarantee
- High-Grade Carbon Steel
- Made By Leading Manufacturer

Knight pliers offer exceptionally high quality at an economy price. Made by one of the nation's leading tool manufacturers. Drop-forged from high grade carbon steel, and carefully heat treated. Ideal tools for the engineer, electronics repairman and the hobbyist. These pliers have been precision machined, fitted and adjusted. Will give years of dependable service. All have semi-polished heads and black handles. Av. shgp. wt., 10 oz.

Stock No.	Fig.	Description	NET
50N 131	R	6½" Side-cutting pliers	1.59
50N 132	S	6" Chain-nose with cutters	1.54
50N 133	W	5" Diagonal cutting pliers	1.34
50N 134	W	6" Diagonal cutting pliers	1.59
50N 135	T	7" Chain-nose with cutters	1.84
50N 114	X	7" Heavy-duty diagonal cutters	1.84

KRAEUTER JEWELERS' PLIERS



Precision-made pliers for work on miniaturized electronic assemblies and all types of delicate mechanisms. Widely used by hobbyists, experimenters, watchmakers, etc. Drop-forged from high-quality tool steel and polished finished. Av. shgp. wt., 5 oz.

Stock No.	Fig.	Type	Description	NET
46 N 415	L	83	4½" Chain-Nose Pliers	2.14
46 N 416	M	84	4½" Flat-Nose Pliers	2.14
46 N 417	N	85	4½" Round-Nose Pliers	2.14
46 N 418	P	81	4½" Diag. Cutting Pliers	2.14

KRAEUTER JEWELERS' PLIER SETS



Type 89. Set consists of 3 jewelers' precision pliers for close, accurate work on miniature mechanical and electronic equipment. Most often used types for wiring and assembling. Set includes 1—Type 81 diagonal cutting pliers, 1—Type 84 flat-nose pliers, 1—Type 83 chain-nose pliers. All are drop-forged from high-quality tool steel. Heat treated to withstand shock and abuse. Polished to a gleaming finish. Excellent for the well-equipped service shop. Each tool is 4½" long. Supplied in black zipper case, Shgp. wt. 1 lb.

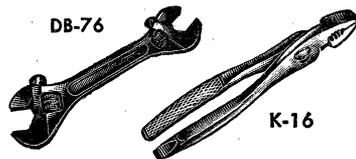
46 N 435. NET.....7.86



Type 90. Complete set of 5 jewelers' precision pliers in durable black zipper storing case. Contains every popular type pliers. Used extensively for delicate, precision work by hobbyists, experimenters, watchmakers, etc. Set consists of 1—Type 81 diagonal cutters, 1—Type 83 chain-nose pliers, 1—Type 84 flat-nose pliers, and 1—round-nose pliers. High-quality tool steel, heat treated and polished tool is 4½" long. Supplied with case. Shgp. wt., 1 1/4 lbs.

46 N 423. NET.....13.10

DIAMOND TOOLS



ADJUSTABLE WRENCHES

Type DB-76. Double-ended wrench. Drop forged "Diamalloy" tool steel. Carefully machined to close tolerances for smooth dependable service. Finished in chrome nickel with highly polished heads and satin finished handle. Capacities are 1/2" and 3/4". 1 1/2" jaws are 1/2" at tip with 3/16" maximum head thickness; 3/4" jaws are 7/8" at tip with 1 3/8" maximum head thickness. Length, 6". Shgp. wt., 6 oz.

45 N 770. NET.....2.61

Type DB-78. Double-ended as above but with 3/4 to 1 3/8" capacity. Shgp. wt., 10 oz.

50 N 115. NET.....2.94

TYPE K SLIP-JOINT PLIERS

Slip-joint combination pliers with convenient wire cutting groove. Excellent for all general purpose work. Precision milled jaws provide a firm, non-slip grip on large or small objects of any shape. Knurled handles for secure grip.

Stock No.	Type	Description	Wt.	NET
50N 116	K-15	5" Long, 3/4" Jaw Capacity	10 oz.	.75
46N 460	K-16	6" Long, 1" Jaw Capacity	12 oz.	.80
50N 117	K-18	8" Long, 1 1/4" Jaw Capacity	14 oz.	1.03

ADJUSTABLE WRENCHES



Type C-79. A handy adjustable wrench with sliding jaw. Will apply non-slipping pressure to large or small nuts and bolts. Excellent tool for any type of shop work where different sizes of nuts are encountered. Knurled adjusting nut quickly and precisely adjusts sliding jaw to any size up to 2 3/8". Made of drop forged steel for rugged strength. Will provide many years of reliable service. Nickel-chromium plated for protection from rust. Overall length, 9". Shgp. wt., 14 oz.

50 N 118. NET.....1.39

Type C-711. Larger version of above. Capacity 3" length 1 1/2". Shgp. wt., 1 1/4 lbs.

50 N 119. NET.....1.62

VLCHEK TOOLS



DOUBLE END WRENCH SETS

Type X2564. 5-piece open-end wrench set. Made of tempered carbon steel. Ten openings, 1/2" and 3/8", 5/8" and 3/4", 7/8" and 1", 1 1/8" and 1 1/4". Sizes marked on wrenches. Rust resistant. Wt., 3/4 lb.

46 N 265. NET.....1.38

Type X2567. 5-piece open-end wrench set. As above but 3/8" to 7/8", 3/4" and 7/8", 1/2" and 3/4", 1 1/8" and 1 1/4", 5/8" and 3/4", 1 1/8" and 1 1/4". Openings marked on wrench. Shgp. wt., 1 1/4 lbs.

46 N 266. NET.....1.73

Type X3412. 5-piece combination box and open-end wrench set. 3/8 to 3/4, 3/8 and 3/4, 7/8 and 7/8, 1/2 and 1/2, 3/8 and 3/8, 5/8 and 5/8. Sizes marked on wrenches. Wt., 3/4 lb.

50 N 120. NET.....2.02

STANDARD PUNCH & CHISEL SET



Type 3256. Excellent low-cost set. Forged from high carbon tool steel. Set contains 1/2" and 3/8" edge chisels, 1/8" and 1/4" solid punches and 1/8" center punch. Bright plated. Supplied in clear face plastic pouch. Shgp. wt., 3/4 lb.

50 N 125. NET.....1.32

TYPE X860 CENTER PUNCH



High-grade, carbon-steel center punch. Carefully heat treated and tempered for maximum toughness. 5 1/2" long. Shgp. wt., 2 1/2 oz.

50 N 126. NET.....2.9c

GREENLEE CHASSIS PUNCHES



Series 730. Permit easy, rapid cutting of round holes in metal chassis for sockets, switches, controls and other equipment. Cuts through metals up to $\frac{1}{8}$ " thick. Just turn cap screw to cut hole—can be operated with ordinary wrench. No reaming or filing required. All punches require $\frac{3}{8}$ " hole for lead screw, except $\frac{1}{4}$ " hole, and $1\frac{1}{4}$ " hole. Av. shpg. wt., 1 $\frac{1}{2}$ lbs.

No.	Size	NET	No.	Size	NET
46 N 1693	$\frac{1}{2}$ "	2.29	46 N 002†	$1\frac{1}{4}$ "	2.86
46 N 174	$\frac{1}{8}$ "	2.29	46 N 175	$1\frac{1}{4}$ "	2.65
46 N 000	$\frac{1}{8}$ "	2.29	46 N 176	$1\frac{1}{4}$ "	3.00
46 N 170	$\frac{3}{4}$ "	2.29	46 N 180	$1\frac{1}{2}$ "	3.39
46 N 001	$\frac{13}{16}$ "	2.29	46 N 011†	$1\frac{5}{8}$ "	3.97
46 N 171	$\frac{1}{8}$ "	2.29	46 N 110†	$1\frac{3}{4}$ "	4.50
46 N 172	$\frac{1}{8}$ "	2.51	46 N 111†	$1\frac{7}{8}$ "	5.60
46 N 178	$1\frac{1}{8}$ "	2.65	46 N 116†	2"	6.04
46 N 173	$1\frac{1}{8}$ "	2.65	46 N 181†	$2\frac{1}{4}$ "	6.57
46 N 179	$1\frac{1}{2}$ "	2.65	46 N 209†	$2\frac{3}{4}$ "	11.02
46 N 174	$1\frac{1}{8}$ "	2.65			

Ball-Bearing Cap Screws. For use with Type 730 punches that have a $\frac{3}{4}$ " cap screw. Reduce friction for easy operation. Shpg. wt., 1 lb.

50 N 168, Type AV249-BB. For $1\frac{1}{2}$ ", $1\frac{1}{8}$ " and $1\frac{1}{4}$ " chassis punches. NET.....2.07

50 N 169, Type AV304-BB. For $1\frac{1}{2}$ ", 2", $2\frac{1}{4}$ " and $2\frac{3}{4}$ " chassis punches. NET.....2.24

Replacement Cap Screws. For round hole punches listed above. Av. shpg. wt., 4 oz.

46 N 182. $\frac{1}{4}$ " screw for $\frac{1}{2}$ " and $\frac{3}{8}$ " punches. NET.....26¢

46 N 183. $\frac{3}{8}$ " screw for $\frac{1}{4}$ ", $\frac{3}{4}$ ", $1\frac{1}{8}$ ", and $\frac{1}{2}$ " punches. NET.....26¢

46 N 168. $\frac{3}{8}$ " screw for 1" to $1\frac{1}{2}$ " punches (except $1\frac{1}{2}$ "). NET.....30¢

46 N 299. $\frac{3}{4}$ " screw for $1\frac{1}{2}$ ", $1\frac{3}{4}$ " and $1\frac{3}{8}$ " punches. NET.....39¢

46 N 343. $\frac{3}{4}$ " screw for $1\frac{1}{2}$ " to $2\frac{3}{4}$ " punches. NET.....53¢

Series 731 Square Punches. Cut holes in metal up to $\frac{1}{8}$ " thick. Require $\frac{1}{2}$ " hole. Shpg. wt., 2 lbs.

46 N 269. For $\frac{1}{4}$ " hole. NET.....3.66

46 N 276. For $\frac{3}{8}$ " hole. NET.....3.74

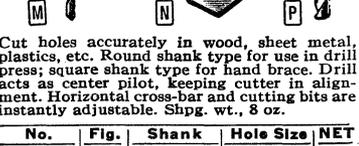
46 N 277. For $\frac{1}{2}$ " hole. NET.....4.18

46 N 278. For $\frac{3}{4}$ " hole. NET.....4.94

Series 732 Key Punches. Cut holes for keyed sockets. Require $\frac{1}{2}$ " hole except $\frac{1}{4}$ " hole. Av. shpg. wt., $1\frac{1}{2}$ lbs.

No.	Size	NET	No.	Size	NET
46 N 2148	$1\frac{1}{2}$ "	4.31	46 N 189	$1\frac{1}{8}$ "	4.66
46 N 184	$1\frac{1}{4}$ "	4.09	46 N 193	$1\frac{1}{4}$ "	4.94
46 N 186	$1\frac{1}{8}$ "	4.41			

GENERAL HARDWARE CIRCLE CUTTERS



Cut holes accurately in wood, sheet metal, plastics, etc. Round shank type for use in drill press; square shank type for hand brace. Drill acts as center pilot, keeping cutter in alignment. Horizontal cross-bar and cutting bits are instantly adjustable. Shpg. wt., 8 oz.

No.	Fig.	Shank	Hole Size	NET
45 N 600	M	Round $\frac{1}{4}$ "	$\frac{7}{8}$ " to 4"	1.69
45 N 602	N	Square	$\frac{1}{4}$ " to $5\frac{1}{2}$ "	1.90
45 N 603	M	Round $\frac{3}{8}$ "	1" to $5\frac{1}{2}$ "	2.10

Replacement Cutter Blades. For above. Hardened tool steel. Shpg. wt., 4 oz.

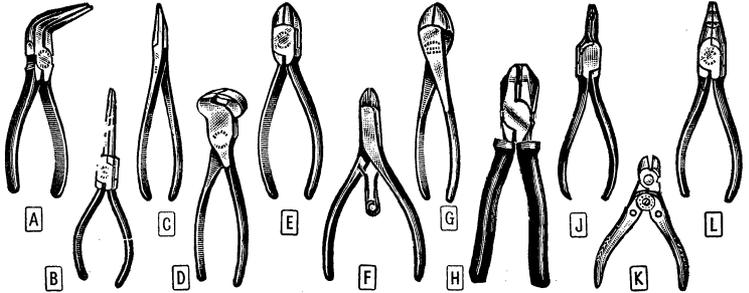
45 N 610, NET EACH.....44¢

CLARK HOLE CUTTER

P Type 100. Cuts holes $\frac{3}{8}$ " to $1\frac{1}{2}$ " in dia., in metals up to $\frac{1}{8}$ " thick. $\frac{1}{4}$ " pilot drill with $\frac{1}{4}$ " round shank for electric drills. Fully adjustable. Shpg. wt., 5 oz.

45 N 620, NET.....3.67

UTICA HIGH-QUALITY CUTTERS, PLIERS AND SNIPS



All types of electrical wiring, repair work and assembly jobs are easier with fine-quality tools. Utica supplies a wide variety of pliers, cutters and snips that are ideal for use by manufacturers, servicemen, amateurs, experimenters—any who insist upon tools offering the utmost in smooth action, dependability and long life under the hardest use. Precise, scientifically controlled heat treating and hardening of the finest tool steels assure superior and uniform quality. Precision-fit joints provide free, positive action under all conditions of operation. Accurate, easy cutting and gripping are assured by careful alignment of jaws and cutting edges. Handles on all types are of proper size and shape for completely comfortable grip and balance. Av. shpg. wt., 10 oz.

No.	Fig.	Type	Description	EACH
46 N 476	A	888	6" Curved Needle Nose Pliers	2.50
50 N 167	B	775	$5\frac{1}{2}$ " Long Nose Pliers	2.35
46 N 475	B	777	6" Long Needle Nose Pliers	2.17
46 N 477	C	82	8" Assembly Pliers, Needle Nose	2.27
46 N 474	D	260	7" End Cutting Nippers	2.78
46 N 470	B	45	6" Aviation Diagonal Cutters	2.65
46 N 471	G	40	7" High Leverage Diagonal Pliers	2.39
46 N 478	L	2291	6" Insulation Stripping Pliers	2.47
46 N 425	F	101	$4\frac{1}{2}$ " Midget, Scissors-Type Snips	2.55
46 N 426	J	896	6" Cutting and Stripping Pliers	2.87
46 N 489	H	3950	5" Linemen's Side Cutters	3.21
46 N 466	K	470-5	6" Printed Circuit Cutting and Crimping Pliers	3.23

UTICA STRAIGHT CUT TIN SNIPS



Type 270. High-quality tin snips for straight cutting, medium-duty applications. 7" length. Sturdy tempered, forged steel construction. Cutting edge holds sharpness. Powerful, lever action makes cutting easier and faster. Ring-type handles provide firm, comfortable grip. Shpg. wt., 12 oz.

46 N 490, NET.....1.66

CLAUSS INDUSTRIAL SCISSORS

Type 925. Electricians' scissors. Made of finest cutting steel. Nickel plated for long service. Lgh. of cut, $1\frac{1}{4}$ ". Ideal for cutting tape, rubber, etc. 5" long. Shpg. wt., 3 oz.

45 N 896, NET.....1.66

Type 925BS. Same as above, but one blade is serrated.

45 N 897, NET.....1.84

Type 4217 Industrial Shears. Not illus. For shop use. 7" long. Length of cut, $3\frac{1}{4}$ ". 5 oz.

46 N 305, NET.....3.12

Type 4218. As above, but 8" long; 4" cut. 6 oz.

46 N 304, NET.....3.49

L. B. MILLER "MAGIMMICK JR."



A very useful tool when working in restricted space. Consists of permanent magnet mounted on a swivel-joint extension handle. Retrieves nuts, bolts, etc. in hard-to-reach places. Indispensable when working on miniaturized units, in corners, etc. 10" long. Wt., 6 oz.

46 N 084, NET.....1.20

WALSCO PROTECTO-TUBE

Type 18-K. Synthetic plastic high-voltage tubing for insulating the handles of pliers, screwdrivers, etc. Tubing is applied by treating with expanding solution which swells tubing for application to tool handles. Tubing then shrinks and remains firmly in place. Contains 12 ft. of tubing and expanding solution. Easy to apply. Shpg. wt., 12 oz.

43 N 132, NET.....1.06

UTICA ADJUSTABLE WRENCHES



Type 91 Adjustable Wrench. Thin pattern design. Easily slip into tight places. Drop-forged from tough alloy steel. Thumbscrew adjustment holds jaws firmly. Chrome finished head. *Tip thickness.

Stock No.	*Thick-ness	Size	Jaw Open	Shpg. Wt.	NET EACH
46 N 481	$\frac{1}{8}$ "	6"	$1\frac{1}{2}$ "	2 oz.	1.74
46 N 482	$\frac{3}{16}$ "	6"	$3\frac{1}{2}$ "	$4\frac{1}{2}$ oz.	1.74
46 N 483	$\frac{1}{4}$ "	8"	$1\frac{1}{2}$ "	8 oz.	2.03
46 N 484	$\frac{3}{8}$ "	10"	$1\frac{1}{2}$ "	1 lb.	2.61
46 N 485	$\frac{1}{2}$ "	12"	$1\frac{1}{2}$ "	$1\frac{1}{2}$ lbs.	3.80

ADEL METAL "NIBBLING" TOOL

"Nibbles" holes, slots or openings in sheet metal. A real time-saver; leaves smooth, flat edge on holes. Easily munches 18-gauge steel, or aluminum and other soft metals up to $\frac{1}{8}$ " thick. Minimum hole size, $\frac{1}{16}$ " diameter. Durable construction; easy to use. Shpg. wt., 8 oz.

43 N 863, 12-71, EA. 3.60 1-11, EA. 3.85

Replacement Punch for Above. Easy to install. Shpg. wt., 2 oz.

50 N 130, NET.....1.67

"TRU-CUT" LOCK WRENCH



Type 10-DC. Rugged, heavy-duty tool. Applies tremendous pressure with minimum effort—up to 1000 lbs! Non-slip grip holds objects of any shape. Can be used as quick-clamp, pipe wrench, toggle press, or hand vise. Finger-joint release opens wrench instantly. Knurled-head adjustable bolt sets tool for sizes up to $1\frac{1}{2}$ ". Nickel-plated hardened steel. 10" long. Shpg. wt., 1 $\frac{1}{4}$ lbs.

46 N 434, NET.....1.72

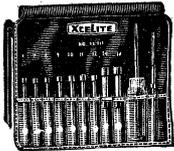
HANDY STEEL TWEezer

Finely tempered, nickel-plated steel tweezers. Size, 6 $\frac{1}{2}$ " long. For all types of delicate work. Holds wires, nuts, screws, etc. Easy to hold. Shpg. wt., 4 oz.

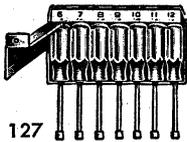
46 N 095, NET.....53¢

Xcelite Nutdrivers & Screwdrivers

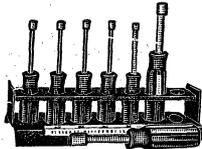
HEX NUTDRIVER SETS



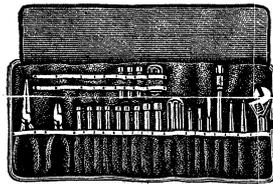
99PR



127



137



XCELITE SERVICE MASTER KIT

Type 99SM Service Master Kit. An extremely versatile set of high-quality tools. Includes a complete assortment of wrenches, pliers, screwdrivers and reamers, plus handles and extension. Meets almost every radio-TV servicing need; also an excellent outfit for the craftsman or home handyman.

Set contains: long-nose pliers; diagonal pliers; 6" adjustable wrench; nine regular nutdrivers in sizes from 3/16" through 1/2"; 3/4" stubby nutdriver; 3/16" stubby nutdriver; 3/4" stubby nutdriver; 3/16" slotted screwdriver; 3/2" slotted screwdriver; No. 1 Phillips screwdriver; 1/8"-3/8" reamer; 1/4"-1/2" reamer; 8" extension; regular handle; stubby handle.

All tools are made of tough alloy steel and have highly polished nickel-chrome finish. A convenient roll-up kit of durable, soft material is included—has separate pocket for each tool. Shpg. wt. 2 3/4 lbs. **43 N 884, List, \$33.50. NET.....20.10**

MODEL 99PR NUT & SCREWDRIVER SET

Versatile, chrome-plated 13-piece set in durable, plastic roll-up kit. Includes 3/16", 7/32", 1/4", 5/16", 3/8", 1/2", 3/4" and 1/2" nut drivers; 2 combination screwdrivers (3/8" and 9/16" standard, No. 1 and No. 2 Phillips); rugged plastic handle. Shpg. wt., 2 lbs. **45 N 738, List, \$13.65. NET.....8.03**

Model 9910 8"-Extension. For above. 5 oz. **45 N 787, List, \$1.45. NET.....87¢**

MODEL 127 NUTDRIVER SET

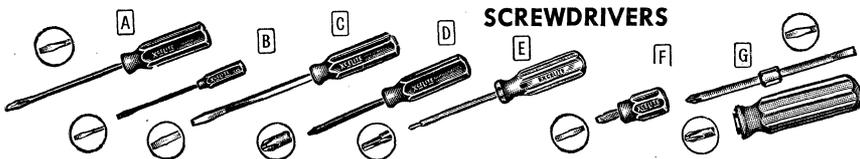
Color-coded plastic handles indicate socket sizes instantly. Sockets are deep enough to handle two nuts. Depth of shaft hole, 1/4". Includes 7 wrenches, sizes 3/16" to 3/8" in 1/8" steps. Sturdy metal holder in red wrinkle finish. Can be fastened to wall for added convenience. Size, 7 1/2"x7 1/2"x1 1/4". Shpg. wt., 2 1/4 lbs. **45 N 735, List, \$8.90. NET.....5.23**

MODEL 137 NUTDRIVER SET

7 color-coded nutdrivers with self-supporting rack. Ideal for workshop table. Colors and sizes: black—3/16", red—1/4", yellow—3/8", green—1/2", blue—5/8", red—1/2", and brown—3/16". Polished steel shanks. Shpg. wt., 3 lbs. **45 N 734, List, \$10.25. NET.....6.15**

MODEL 17 NUTDRIVER SET

Seven nutdrivers in the most commonly used sizes for radio-TV work. A valuable addition to any work bench. With durable color-coded plastic handles and polished alloy steel shanks. Sizes: 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", and 3/4". Set includes metal rack for holding nutdrivers in an upright position when not in use. Shpg. wt. 2 1/2 lbs. **45 N 733, List, \$8.25. NET.....4.95**



A Round Shaft. Available in lengths from 4 1/4" to 12".

Stock No.	Mfr's Type	Shaft Dia.	Length	Overall Length	Shpg. Wt.	NET EACH
43 N 845	R-182	1/8"	2"	4 1/2"	3 oz.	.32
43 N 846	R-184	1/8"	4"	6 1/2"	3 oz.	.36
43 N 847	R-186	1/8"	6"	8 1/2"	4 oz.	.38
43 N 848	R-188	1/8"	8"	10 1/2"	4 oz.	.47
45 N 795	R-144	1/4"	4"	8"	6 oz.	.68
45 N 796	R-146	1/4"	6"	10"	6 oz.	.71
45 N 797	R-148	1/4"	8"	12"	7 oz.	.76

D Phillips Screwdrivers. Alloy steel. *Stubby type.

Stock No.	Mfr's Type	Shaft		Overall Length	Shpg. Wt.	NET EACH
		Tip	Length			
43 N 876	X-101	No. 1	3"	6 3/8"	5 oz.	.62
43 N 877	X-102	No. 1	4"	10"	5 oz.	.69
43 N 878	X-108	No. 2	4"	7 3/4"	6 oz.	.81
43 N 879	X-1020	No. 2	10"	13 3/4"	8 oz.	1.08
43 N 881	X-103	No. 3	6"	10"	10 oz.	1.06
43 N 882	SX-101	No. 1	*	2 3/4"	3 oz.	.60
43 N 883	SX-102	No. 2	*	3 1/4"	5 oz.	.66

High-quality, rugged screwdrivers in choice of blade sizes and lengths. Highly polished, chromium vanadium steel shafts imbedded in tough Xcelite plastic handles—will not loosen, even under rigorous use. Handles fluted for sure grip.

B Set-Screw Types. High-quality precision-ground, narrow-blade screwdrivers designed to fit standard set-screws in knobs, pulleys, couplers, etc. Have convenient pocket clips.

43 N 830	R-3323SS	3/8"	3"	5"	2 oz.	.26
43 N 831	R-184SS	1/8"	4"	6"	2 oz.	.27

C Square Shaft. Available in lengths from 7 5/8" to 18".

Stock No.	Mfr's Type	Shaft Size		Overall Length	Shpg. Wt.	NET EACH
		Dia.	Length			
43 N 829	S-3164	3/8"	4"	7 5/8"	4 oz.	.62
43 N 832	S-144	1/4"	4"	8"	6 oz.	.73
43 N 833	S-146	1/4"	6"	10"	6 oz.	.76
43 N 834	S-148	1/4"	8"	12"	7 oz.	.88
43 N 837	S-388	3/8"	8"	12 3/4"	1 lb.	1.23
43 N 838	S-3812	3/8"	12"	18"	1 1/4 lb.	1.79

E Clutch Head Screwdrivers. Fit clutch head screws used in sheet metal assemblies, electronic gear, etc. Non-friction hold type.

50 N 144	G183	1/8"	4"	6 1/2"	3 oz.	.72
50 N 145	G5324	3/16"	4"	7 1/2"	4 oz.	.81
50 N 146	G3164	3/16"	4"	7 1/2"	4 oz.	.81

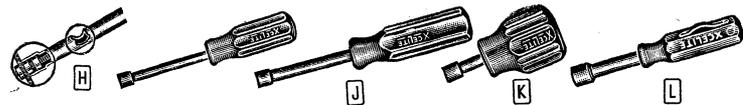
F Stubby Screwdriver 1/4" square shaft, polished blade. Ideal for work in cramped space.

43 N 844	S-141	Regular	1 1/4"	3 1/4"	5 oz.	.51
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G Combination-Blade Screwdrivers.

Stock No.	Mfr's Type	Blade Combination	Overall Length	Shpg. Wt.	NET EACH
45 N 747	CR2	1/4" Regular #2 Phillips	7"	5 oz.	
45 N 748	CR3	3/8" Regular #3 Phillips	7"	10 oz.	

XCELITE HEX NUTDRIVERS



Xcelite's famous line of quality nutdrivers. These tools have become standard in the electronics industry, and are offered in a wide range of sizes and styles for every application. Made to exacting specifications, the Xcelite nutdrivers employ shafts of highly-polished chrome-vanadium electric furnace steel. Handles are of rugged Xcelite plastic, with shafts permanently molded in place—will not work loose. Sockets are precision formed and have no burrs—fit nuts and screw hex heads snugly. Socket wells are deep enough to handle two nuts simultaneously.

All Xcelite nutdrivers have color-coded handles for identification of size at a glance. Fig. H shows types having a hollow shaft, for tightening nuts on long screws; Fig. J is standard type. Fig. K is stubby type for use where space is limited. Fig. L is a pocket style nutdriver with clip and hexagonal handle. A set of 3 sizes listed is extremely handy for the serviceman. Type HS-18 fits 5/8" volume control nuts. Shpg. wt., 6 oz., except S-8, S-10, S-12, which are 5 oz.

Stock No.	Mfr's Type	Fig.	Nut Size	Handle	Length	NET EACH
45N 779	HS-8	H	3/8"	Red	6"	.79
45N 780	HS-10	H	5/8"	Amber	6"	.79
45N 781	HS-11	H	1 1/4"	Green	6"	.79
45N 782	HS-12	H	3/4"	Blue	6"	.79
45N 783	HS-14	H	7/8"	Brown	7"	.91
45N 784	HS-16	H	1"	Red	7"	.94
45N 785	HS-18	H	5/8"	Orange	7"	.97
45N 786	HS-20	H	3/4"	Amber	7"	1.12
45N 813	6	J	3/16"	Black	6"	.65
45N 814	7	J	1/32"	Brown	6"	.65
45N 815	8	J	1/4"	Red	6"	.65
45N 816	9	J	5/16"	Orange	6"	.65
45N 817	10	J	3/8"	Amber	6"	.65
45N 818	11	J	1/2"	Green	6"	.65
45N 819	12	J	3/4"	Blue	6"	.65
45N 857	S-8	K	1/4"	Red	3 1/4"	.54
45N 858	S-10	K	5/16"	Amber	3 1/4"	.54
45N 859	S-12	K	3/8"	Blue	3 1/4"	.54
50N 141	P-8	L	1/4"	Red	3 3/8"	.45
50N 142	P-10	L	3/16"	Amber	3 3/8"	.45
50N 143	P-12	L	1/8"	Blue	3 3/8"	.45

OFFSET SCREWDRIVERS

Excellent for spots inaccessible to standard types. Heat-treated and tempered steel with screwdriver blade at each end.

M For Phillips screws, sizes 1 to 9. 4 3/4" long. Shpg. wt., 4 oz.

45 N 835, NET.....51¢

N For standard screws. 1/4" blades. 4" long. Shpg. wt., 4 oz.

43 N 843, NET.....53¢

JEWELER'S SCREWDRIVER SET

Type S-600. Expertly made by General Hardware. Handy set of 6 professional quality screwdrivers. Knurled handles are made of high quality top steel tubing. Each tool has a swivel head, replaceable blade and nickel-plated body. Tempered blades held firmly in place by threaded chucks. Chucks are grooved for identification. Overall length, 3 3/4". Blades: No. 0, .100"; No. 1, .080"; No. 2, .070"; No. 3, .055"; No. 4, .040"; No. 5, .025". Shpg. wt., 5 oz.

43 N 855, NET.....3.47

BRIDGEPORT NEOPRENE CUSHION GRIP SCREWDRIVERS

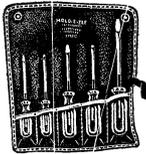


- Non-slip Greater Turning Power
- Fit the Hand Comfortably
- Tough Alloy Steel Blades

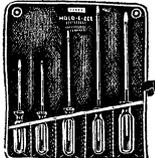
An excellent selection of new highly efficient screwdrivers. Feature soft, neoprene rubber covers permanently bonded to tough plastic handles. Non-slip and non-blistering—fit the hand comfortably for greater twisting power. Shockproof as well as hammerproof. Blades are high-grade hardened alloy steel. Winged shanks at handle ends provide maximum strength. Precision cross-ground points fit screw slots tightly. Type 2143 has round mechanics blades; Type 2343, square mechanics blade; Type 2243, round electricians blade. All blades polished to a high luster.

Stock No.	Mfrs Type	Blade	Shpg. Wt.	NET EACH
43 N 738	2143	4x1/4"	8 oz.	.92
43 N 739	2143	6x3/16"	10 oz.	1.10
43 N 740	2143	8x3/8"	10 oz.	1.39
43 N 741	2243	6x3/16"	9 oz.	.77
43 N 742	2343	4x1/4"	10 oz.	1.03
43 N 743	2343	6x3/16"	12 oz.	1.32

"HOLD-E-ZEE" SCREWDRIVERS AND SCREWDRIVER KITS



TK-5



RT-52

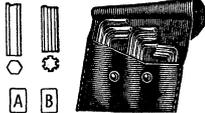
Type TK-5 Kit. Versatile, top-quality screwdriver kit. Especially recommended for the "do-it-yourself" enthusiast, mechanic, and car owner. Kit includes 5 automatic-grip screwdrivers; one each—TR-4 with 5/8" hex blade, 4" long; PR-4, 5/16x4"; TS-4, 1/2x4"; PS-4, 1/2x4" and TH-6, 3/16x6". PR-4 and PS-4 are for Phillips head screws.

Screwdrivers feature convenient, spring-steel gripper that holds screws for starting in difficult-to-reach places. Shock-resistant, comfort-grip handles have exclusive "lok-blok" construction to prevent blade from twisting. Blades are tempered, chrome-vanadium steel. With handy roll pouch. Wt., 1 1/2 lbs. 43 N 971. List, \$5.25. NET.....3.86

Type RT-52. Handy kit similar to above, but recommended for electronic use. Includes one each: TR-6, 5/16x6"; TR-8, 5/16x8"; TS-7, 7/16x7". Also TR-4 and PR-4 as described above. Shpg. wt., 1 1/4 lbs. 43 N 972. List, \$4.50. NET.....3.31

WALSCO HEX & SPLINE WRENCHES

An extremely useful assortment of hex and spline wrenches. Contains 11 of the most commonly used sizes in electronic equipment. Key-type, L-shaped wrenches fit screws ranging in size from No. 2 to 3/8", 7/8" hex or Allen type (see Figure A above). The remainder are 4 different sizes in spline or Bristol keys (see Figure B). Precision-forged from high-grade carbon steel for exact fit. Neatly packed in a leatherette case. Shpg. wt., 1 1/2 lb. 46 N 166. NET.....1.32

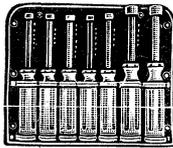


ALLEN WRENCH SET

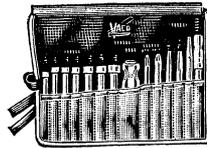
Excellent set of 6 L-shaped wrenches to fit 7 most popular-sized Allen-head screws. Nos. 4, 5, 6, 8 and 10 as well as 1/4" and 5/8" sizes. Made of extremely tough "Alenoy" steel. Keys are neatly packed in convenient, leatherette case which fits into pocket. Shpg. wt., 3 oz. 46 N 072. NET EACH.....71c



VACO TIME-SAVING SERVICE TOOL SETS



K-7



RT-14



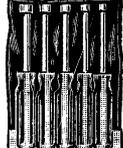
TV-27



ZB-50



ZCH-65



K-505

INSULATED HEX NUT DRIVER SET

Type K-7. Set includes 7 hex-nut drivers with color-keyed shafts. Permits immediate selection of correct hex driver for the job. Completely insulated, all-hollow shafts. Sure-grip handles; extra-hard sockets. In convenient, plastic tool roll with individual holders marked for size and color. Shaft length, 3". For hex-nut sizes: 3/16", 1/4", 5/16", 1/2", 3/8", 7/16" and 1/2". Shpg. wt., 1 1/2 lbs. 43 N 906. List, \$9.50. NET.....7.45

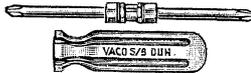
HANDY COMBINATION KIT

Type RT-14. All blades fit the shock-proof Amberly handle provided. Kit includes: Handle; 6" extension piece; 7 nut drivers, sizes 3/16", 1/4", 5/16", 1/2", 3/8", 7/16", 1/2"; 2 Phillips drivers, No. 1 and No. 2; and 3 regular drivers, sizes 1/8", 3/16" and 1/4". All drivers are of high-quality chrome-alloy steel. With 14-section leatherette tool roll. Shpg. wt., 1 1/2 lbs. 45 N 829. List, \$11.20. NET.....8.78

27-PIECE TV AND RADIO KIT

Type TV-27. Includes: 1 medium and 1 heavy-duty handle; #1 and #2 Phillips bits; 1/8", 3/16", 1/4" and 1/2" regular bits; 6" bit extension; 3/16", 1/4", 5/16", 1/2", 3/8", 7/16" and 1/2" hex-nut bits; 1 medium and 1 small offset regular screwdriver; 1/4" stub; 3/8" pocket-clip; #1 Phillips; 1/2" screw-holding; 1/2" insulated-blade; 3/16" screw-holding; 3/16" insulated-blade screwdrivers; 3/16" metal-tip aligner; 1/8"x10" non-magnetic adjuster; 3/32" fiber television aligner. Shpg. wt., 2 1/2 lbs. 45 N 831. List, \$24.70. NET.....19.36

REVERSIBLE PHILLIPS SCREWDRIVER



Type DUP-12. New Phillips model—two tools in one. Reversible blade snaps easily in and out of handle chuck for use on either No. 1 or No. 2 size screws. Shpg. wt., 5 oz. 43 N 744. NET.....1.43

HIGH TENSION TESTING SCREWDRIVER



Type AN-2. Handy pocket-clip model with neon bulb in handle. Glows bright or dim to test auto ignition or any high AC/RF source. 5/12" long, 1/8" dia. Blac. Wt., 2 oz. 43 N 745. NET.....78c

Type AN-44. As above. 7 5/8"x1/4" dia. blade. 43 N 746. NET.....1.30

REED & PRINCE SCREWDRIVERS



Top-quality selection to exactly match increasingly popular Reed and Prince, cross-slot screws. Shock proof, unbreakable plastic handles. Blades of chrome-vanadium steel.

Stock No.	Type	Length	Blade	Oz.	NET
43 N 747	R-700	6 1/2"	5/16x3"	2	.96
43 N 748	R-710	7 5/8"	3/8x4"	3	1.07
43 N 749	R-715	10 1/2"	5/16x6"	5	1.33
43 N 786	R-720	12 1/2"	3/8x8"	9	1.70

INSULATED BLADE SCREWDRIVER

Type VR-261. Useful screwdriver for work in crowded "live" circuitry. Prevents shorts. 6 1/8" blade fully insulated with break-resistant plastic. Amberly handle. Wt., 3 oz. 43 N 861. NET.....71c

SCREWDRIVER KIT

Type ZB-50. Features 5 detachable blades. All the screwdrivers ordinarily needed—in one compact unit. Very strong, oil-tempered, chrome vanadium steel. Has 1x3 3/8" Amberly handle with clutch. Blades: 1/8x4", 1/4x4", 1/2x5". Phillips No. 1 and No. 2, 4", Leatherette tool roll. Shpg. wt., 8 oz. 43 N 875. List \$3.90. NET.....3.06

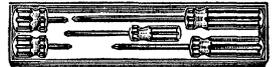
CLUTCH HEAD SCREWDRIVER KIT

Type ZCH-65. New, roll-up kit of precision-built clutch head screwdrivers. Detachable blades of chrome vanadium steel and sturdy plastic handle. Blade bits fit matching screws perfectly. When used for loosening screws, bits lock in screws—hold them for easy removal from tight places. Bits remove easily from screw recess after driving or clockwise turn. Kit includes: 4 blades, 3 3/4" long for screw sizes, 1/8, 3/16, 1/4 and 1/2"; 1—4 3/4" blade for 3/16" screw. Shpg. wt., 8 oz. 43 N 787. List, \$6.00. NET.....4.70

NUT DRIVER KIT

Type K-505. New, 5-piece set of high-quality nuts. Ideally suited for use in shop or home. Perfect for radio-television servicemen. Comfort-grip handles constructed of insulated, shock-resistant Tenite. Has 3/4" all-hollow, heavy-duty steel shafts—easily fits long bolt extensions. Specially treated sockets assure long-wearing use. Durable plastic kit includes five popular nut-driver sizes: 3/16" 1/4", 3/16", 1/2", and 3/8". Shpg. wt., 8 oz. 43 N 982. List, \$4.90. NET.....3.82

PHILLIPS SCREWDRIVER SET



Type P550. Set contains five of the most popular Phillips screwdrivers. A necessary time-saving aid for the radio-television serviceman, auto mechanic, custom installer, etc. Designed to handle most common applications quickly and efficiently. Easy-grip handles are constructed of shock-proof Amberly. Long-wearing blades are made of tough, wear-resistant vanadium steel. Sold as complete kit only. Shpg. wt., 1 1/2 lbs.

Type	Overall	Blade	For Screws
P1	6 1/2"	3/16x3"	No. 4 and smaller
P2	7 5/8"	1/4x4"	No. 5 to No. 9
P3	10"	3/16x6"	No. 10 to No. 16
P5	3"	1/4x1 3/4"	No. 5 to No. 9
P6	3"	3/16x1 1/4"	No. 4 and smaller

43 N 880. List, \$5.72. NET.....4.49

Type PO1 Screwdriver. For Nos. 0-1 Phillips type screws. Shock-proof Amberly handle. Chrome vanadium blade, 2 1/2x1/4". 1 oz. 43 N 788. NET.....55c

BERYLLIUM-COPPER SCREWDRIVERS

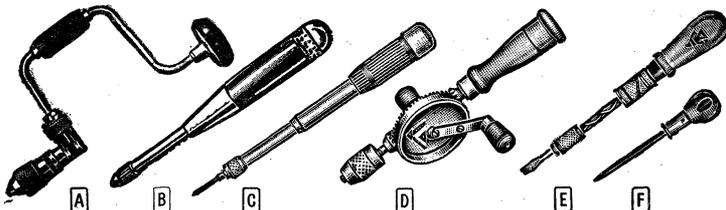


For adjusting PM focus units on TV sets. Extra-long sizes permit back-of-the-set adjustments without removing the back cover. Quickly make close tolerance adjustments. Non-magnetic; do not affect picture. Nearly as hard as steel. Provide long service without buckling or shearing. Will not "give".

Stock No.	Type	Lgth.	Blade	Oz.	NET
43 N 896	VB26	8 3/4"	6x1/2"	3	.99
43 N 897	VB48	11 3/4"	8x1/2"	4	2.37
43 N 898	VB210	12 3/4"	10x1/2"	4	1.08

Quality Hand Tools

MILLERS FALLS HAND TOOLS



A Model 1710 Brace. Low-priced brace for square shank bits. Has adjustable forward-reverse ratchet control for use in limited space. Barber chuck with alligator jaws. 10-inch sweep. Ball bearing head mount. Hardwood head and handle. Shpg. wt. 2 3/4 lbs. 50 N 022. List, \$5.98. **NET.....4.49**

B Model 100 Automatic Drill. Push-type drill with multiple-toothed spiral mechanism and internal spring return. Top part of handle is rounded to fit comfortably in the hand. Hollow red plastic handle stores 8 fluted-shank drills (supplied). Size, 1/8" to 1 3/4". Shpg. wt., 1 1/2 lbs. 46 N 038. List, \$5.75. **NET.....4.30**

MODEL 1220 PLANE-R-FILE

Efficient tool with 2-way handle for use as file or plane. Shapes, de-burrs, finishes all woods and metals. Blade 1 1/2 x 10 1/4". Aluminum body 11 1/2" long. With 1227 blade, 10 oz. 50 N 186. List, \$3.49. **NET.....2.62**
50 N 187, 1226 Blade, Med. 2oz. **NET 73¢**
50 N 188, 1227 Blade, Coarse. 2oz. **NET 73¢**

C Model 170 Automatic Drill. Has convenient, quick-action chuck. Locks or releases with slight forward thumb pressure. Serrated, red plastic handle has 4 compartments—holds up to 12 drill bits. Complete with 4 drills: 5/8", 7/8", 3/4" and 1 1/4". 10 1/4" long. Shpg. wt. 3/4 lb. 46 N 307. List, \$4.00. **NET.....3.00**

D Model 1425 Hand Drill. High quality drill has double pinion gears for smooth action. Drive gear and pinions have precision-cut teeth. 3-jaw chuck takes drills up to 1/4" in dia. Nickel plated frame and chuck. Hollow handle stores drills. Shpg. wt., 2 lbs. 50 N 174. List, \$4.75. **NET.....3.56**

MODEL 29 SPIRAL RATCHET SCREWDRIVER
E Easy action tool. 1/4" bit drives or draws #4 to #8 screws. Reliable ratchet and quick-return spring. Nickel-plated with hardwood handle. Length, 10". Wt., 1/2 lb. 50 N 189. List, \$3.49. **NET.....2.62**

MODEL TO HANDY AWL

F Has nicely pointed alloy steel blade, 2 3/4" long. Nickel-plated ferrule. Hardwood handle. Overall length 4 7/8". Wt., 1 oz. 50 N 190. **NET.....26¢**



HANSON ECONOMY HAND DRILL

An exceptionally well-balanced, inexpensive hand drill with knurled, hardened steel chuck. Will take drill bits up to 1/2" in diameter. Hardwood handle, with screw-on cap; has convenient storage space for extra drills. Has wooden side knob. Drill can be used with carbon steel or high-speed steel drill bits for drilling through wood, metal or plastic. All wooden parts are lacquer-finished. Overall length, 11 1/2". Shpg. wt., 1 1/4 lbs. 46 N 030. **NET.....1.65**

ALL-PURPOSE HAND SAWS



G Coping Saw. Excellent, all purpose coping saw. Natural hardwood, lacquered handle. Special ratchet locks blade in position. Supplied with 6 1/2" blade. Throat depth, 4 3/4". Shpg. wt., 3/4 lb. 45 N 878. **NET.....49¢**
Type 124. Replacement Blades. Wt., 2 oz. 45 N 876. Pkg. of 2. **PER PKG.....10¢**

H Pistol-Grip Hack Saw. Sturdily-constructed hack saw, adjustable for 8 to 10" blades. Rugged frame is highly polished spring steel. Large thumbscrew for easy tightening of blades. Sure-grip green handle of high-impact, tough molded plastic. Supplied with 10" blade. Shpg. wt., 1 1/2 lbs. 46 N 090. **NET.....1.11**

Replacement Blade Set. Contains 1 fine and 1 coarse blade, both 10". Shpg. wt., 3 oz. 46 N 091. **NET, PER SET OF 2.....18¢**

J Forsberg V-35 Four-Way Keyhole Hack-saw. Handy lightweight saw for all general purpose work. Cuts metal, wood, plaster, conduit, etc. Blade is 7 1/4" long, 24 teeth/inch—can be faced in 4 directions. Wt., 6 oz. 46 N 341. **NET.....29¢**
Extra Keyhole Saw Blades. Wt., 2 oz. 46 N 342. **NET EACH.....12¢**

K Millers Falls Model 525 Keyhole Hack-saw. Cuts metal, wood, plaster, etc. Has a replaceable 12" blade; 10 teeth per inch. Blade can be rotated and locked in any of 8 positions for easier odd-angle cuts. Handle fits blades below. Shpg. wt., 9 oz. 46 N 102. List, \$2.20. **NET.....1.65**

12" ACCESSORY BLADES

No.	Type	Teeth Per Inch	Oz.	EACH
46 N 103	24	24 (For metal)	3	45¢
46 N 104	27	7 (For wood)	3	49¢

GREAT NECK "CORSAIR" PLANE



Model C-4. Excellent value in a top-quality smoothly operating plane. Parts are hardened and tempered alloy tool steel. Has razor-sharp, 2-inch cutter. Lever cap is nickel-plated. Frog fully adjustable to entire width of mouth. Bottom and sides of plane are machined and polished for maximum accuracy. Conveniently located brass screw permits easy adjustment of cutting blade. Easy-grip handle knob is hardwood, finished in attractive mahogany. Expertly balanced for fatigue-free operation—flawless planing. A "must" for every tool chest. 9 inches long. Shpg. wt., 4 lbs. 45 N 849. **NET.....3.37**

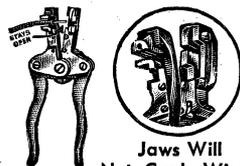
HAND-HELD REAMERS



L Henry Hanson Type 120. For enlarging holes in chassis, panels and other materials. T-Handle provides firm grip for heavy work; removable for use in drill chuck. Precision machined from carbon steel. Point, 1/8" dia.; shank, 1/2" dia., 5 1/2" long. Wt., 9 oz. 46 N 243. **NET.....94¢**

M Master Reamer. Tapered from 1/8" tip to 3/8". Made of finest tool steel. Plastic handle. Very handy tool for the radio and TV repairman, experimenter, electrician, etc. Length, 8". Shpg. wt., 6 oz. 46 N 244. **NET.....88¢**

G-C SPEEDX WIRE STRIPPERS



Jaws Will Not Crush Wire

Model 766

Extremely efficient tools of advanced design. Strip insulation from all types of wires precisely and quickly. Sturdy and easy to use—with narrow, plier grip handles that fit the palm comfortably. Simply insert wire into jaws and squeeze handles. One section of jaws holds wire firmly in place, the other strips. Completely eliminates damage from pulling or tugging on wire ends. Removes insulation only—no crushing or nicking of wire. Strips wire ends or any spot along wire. A real time-saver for servicemen, electricians, production lines, etc.

Deluxe Models. Equipped with "delayed return action" to prevent crushing of fine stranded wires. Easy to use. Just insert wire into jaws and squeeze handles. Has hardened steel cutting blades. Shpg. wt., 1 1/4 lbs. 46 N 225. Type 766. For 12 to 20 wire. 46 N 226. Type 766A. For 14 to 30 wire. **NET EACH.....5.82**

Standard Models. Same design as above, but without "delayed return action." A smooth-operating, highly efficient tool at very moderate cost. Hardened blades. Shpg. wt., 1 1/4 lbs. 46 N 003. Type 733. For 12 to 20 wire. 46 N 004. Type 733A. For 14 to 30 wire. **NET EACH.....4.66**



Type 766K Kit. A complete, versatile kit to fill most service and production line needs. Contains the Deluxe Wire Stripper described above and 7 different size hardened steel blades in special steel box. For wire sizes from No. 8 up to No. 30. Inside cover of box contains a guide listing of blades to use for various wire sizes. A practical addition to tool box. Shpg. wt., 2 1/4 lbs. 46 N 229. **NET.....11.73**

G-C TYPE 737 5-IN-1 STRIPPER



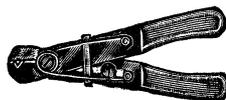
Extremely compact wire stripper. This handy, multi-purpose tool belongs in every radio and TV serviceman's tool kit. It can be used as a wire stripper, cutter, scraper, winder, and as a screwdriver. Strips insulation easily without cutting wire. Shpg. wt., 3 oz. 43 N 905. **NET.....29¢**

MPC WIRE STRIPPER



An easy-to-use spring-steel, multi-purpose wire stripper and cutter. Has screw for adjusting cutting blade gap for any size wire to No. 12. Length, 5 7/8". Shpg. wt., 5 oz. 46 N 036. **NET.....66¢**

K. MILLER 101-S STRIPPER AND CUTTER



Combination wire stripper and cutter. Easily adjusted to strip insulation from any wire up to No. 8, solid or stranded. Calibrated adjustment permits convenient resetting to exact jaw opening required for any wire. Hardened steel blades. Ring lock holds blades closed when not in use. 5" long. Shpg. wt., 4 oz. 46 N 246. **NET.....1.17**

WALSCO "TWISTO" WIRE STRIPPER



Type 592-00. Wire stripper for pipe removal of toughest insulation. Can be inserted into chassis without removing wire. Adjustment for wire sizes 12 to 22. Built-in stop for production stripping. Spring steel blades. 4 1/2" long. Shpg. wt., 8 oz. 46 N 440. List, \$4.50. **NET.....2.65**
592-03. Replacement Blades. Wt., 2 oz. 46 N 441. List, \$1.00. **NET PER SET.....59¢**

Quality Tools and Staplers

MILLERS FALLS UTILITY KNIFE



Model 333. Versatile utility knife of 1000 uses in shop or home. Neatly cuts rubber, veneer, gaskets, linoleum, upholstery, etc. Die-cast, 2-section handle contains 4 extra razor-sharp blades, .018" thick. Each blade has 3 positioning notches for exposing longer or shorter cutting edge. Blades are end-to-end reversible—a total of 10 keen cutting edges. Sturdy, rounded handle provides a sure, comfortable grip. Hole at end for convenient hanging. 5" long. With 5 blades. Shpg. wt., ½ lb.
46 N 308. NET.....67c

Replacement Blades. Package of 5 blades for above. .018" thick. Shpg. wt., 1 oz.
50 N 171. NET.....33c

CAMILLUS ELECTRICIAN'S KNIFE



Model 229. Rugged, versatile knife. Excellent for use by the electrician, serviceman or handyman. Two blades: Combination screwdriver-cutter-stripper-scraper; spear-shaped, 5/8" knife blade. Brass locking bar positively prevents screwdriver blade from closing accidentally. Each blade is 2½" long; of carefully tempered, high-quality steel. Black plastic, full-grip handle. Shpg. wt., 5 oz.
45 N 895. NET.....1.56

TUBE PULLERS & PIN STRAIGHTENER



G-C Type 5093. Compact tube puller. Aluminum body with rubber cup; for 7-pin miniature tubes. Shpg. wt., 2 oz.
46 N 094. NET.....1.06

G-C Type 8106. As above, but for 9-pin miniature tubes.
46 N 155. NET.....1.06

G-C Type TL-201. Scissors-type tube puller with rubber tips. Unusually handy tool. Shpg. wt., 12 oz.
46 N 092. NET.....97c

Walsco Type 565 "Straight 'N' Pull." 3 tools in one. Straightens 7 or 9 pin miniature tube pins; pulls tubes. Extremely helpful where pins have been bent by removal or insertion of tube. Shpg. wt., 3 oz.
42 N 016. NET.....97c

G-C PIN STRAIGHTENERS

Type 5191. Precision-built steel die. For 7-pin miniature tubes. Shpg. wt., 6 oz.
46 N 227. NET.....73c

Type 8105. As above, for 9-pin tubes.
46 N 228. NET.....73c

Type 8655. Not illustrated. For both 7 and 9-pin miniature tubes. Shpg. wt., 6 oz.
46 N 230. NET.....1.47

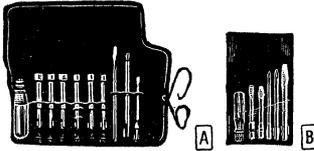
G-C "SPEEDEX" FUSE PULLERS

High-quality fuse pullers designed for quick removal of cartridge-type fuses. Provide maximum safety and ease of operation. Features non-slip construction. Laminated insulation of high dielectric material prevents shock from dangerous high voltages.

Model 5525. Midsize set. For ¼" to ½" fuses. Shpg. wt., 6 oz.
45 N 836. NET.....41c

Model 5526. Handy pocket-size puller. For ½" to 1½" fuses. Shpg. wt., 7 oz.
45 N 837. NET.....97c

ECONOMY TOOL KITS



COMBINATION DRIVER SET

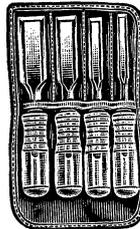
A A complete nut and screwdriver set, in a handy pocket-sized roll. Multi-purpose, 10-piece tool set contains 6 nut driver blades, 3 screwdriver blades and a clear amber plastic handle with an aluminum adjustable screw chuck. Blades are made of hardened and tempered tool steel, nickel plated to prevent rusting. Nut driver blades are for hex sizes 3/16", ¼", 5/16", 3/8", ½", 7/8". 3 screwdriver blades: 1 large and 1 small standard screwdriver blade and 1 Phillips screwdriver blade. Each tool kept in place in its own transparent compartment. Plastic roll case has size markings under hex blade compartments for easy identification. Convenient tie string. A low-priced extremely useful kit for the serviceman. Wt., 1 lb.
46 N 463. NET.....1.69

5-IN-1 SCREWDRIVER SET

B Screwdriver set containing five most-commonly-used screwdriver types. Interchangeable blades are easily inserted into aluminum screw chuck of the shock proof, unbreakable amber plastic handle. Hardened and tempered tool steel blades are nickel plated. Set contains: 1/2x3 1/2" cabinet blade; 3/16x3 1/2" cabinet blade; Phillips No. 1 (3/16x4 1/4)" blade; Phillips No. 2 (1/4x4 1/4)" blade; 1/4x4 1/4" keystone blade; plastic handle. Includes durable plastic roll-up holder with handy tie string. An economical, extremely versatile addition to the shop or home tool chest. Shpg. wt., 8 oz.
46 N 096. NET.....64c

MILLERS FALLS CHISEL SET

Model 1434. Kit of 4 expertly designed wood chisels. Carefully balanced chisels feature thin, keen-edged blades which permit deeper, more efficient cutting action. Long tangs make sharpening easier. Blades are high-carbon chisel steel, treated and tempered for extreme hardness and durability. Heavy metal bolsters absorb shock and prevent handle from splitting. Handles are durable, transparent plastic, firmly bonded to blades. Deep cove design for comfortable, sure grip. All chisels have 3/8" handles. Overall length, 6 7/8". Blade widths are ¼", ½", ¾" and 1". Attractive gray and red plastic carrying case has separate sections for neat orderly storage. Protects cutting edges on chisels. Wt., 1 ½ lbs.
50 N 217. List, \$6.95. NET.....4.63



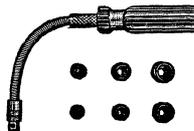
10-PIECE RATCHET SOCKET SET

Ratchet set with 8 heavy-duty sockets. 3 1/2" extension bar for hard-to-reach places. 3-position ratchet: right, rigid, or left. Five 6-point sockets for hex nut sizes: 3/16", 7/32", 1/4", 5/16", 3/8" and 1/2". Three 12-point sockets: 1/2", 5/8" and 3/4". Length, 6 1/2" plus 3 handle. Shpg. wt., 1 lb.
46 N 464. NET.....1.09



FLEXIBLE-DRIVE SOCKET SET

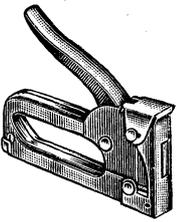
Excellent for use around corners and out-of-the-way places. Extremely handy in the radio-TV service shop. Shaft is made of tough, laminated steel wires. Transmits full twisting power from handle to hex nut. Thick cadmium plating. Shockproof amber handle. 8 3/4" overall length. Includes 6 hex sockets, sizes: 1/4", 5/16", 1/2", 5/8", 3/4", 7/8". Complete with handy wood case. Shpg. wt., 10 oz.
46 N 067. NET.....1.96



ARROW STAPLE GUNS

MODEL JT-21 JR ECONOMY STAPLER

- Combines Speed & Ease of Operation
- Precision Built for Dependable Service



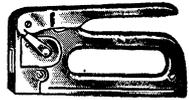
Efficient easy-action stapler gun at an unusually low price. Ideal in the shop for tacking down twin-line, grille cloth, and acoustic padding. Excellent for many home uses such as screening, upholstery, shelving, lining, etc. Drives staples firmly in place with minimum squeeze pressure—employs special non-jamming mechanism. Built-in extractor allows easy removal of driven staples. Gun locks to fit in pocket—prevents accidental operation. All-steel construction—built for dependable service. Loading capacity of 100 staples. Size, 3/4x 6 1/4x3". Less staples. Shpg. wt., 1 lb.
45 N 653. List, \$4.95. NET.....4.10

STAPLES FOR MODEL JT-21 JR

No.	Width	Length	Quantity	Wt.	NET
45N 654	1 1/2"	1/4"	1000	4 oz.	49c
45N 655	1 1/2"	5/16"	1000	4 oz.	49c

T-32 MEDIUM-DUTY STAPLER

An efficient, smoothly operating gun for all medium-duty stapling. Excellent for 300-ohm twin-lead, in-tube-cable, screens, shades, upholstery, light insulation or plastic sheeting. Non-jamming mechanism has double leverage action for easy single-handed operation. One hand is left free for positioning work. Durable, all-steel construction with chrome plating. Safety-lock handle. Loading capacity of 150 .032" staples. 5x7x3/4". Wt., 1 1/4 lbs.
46 N 062. List, \$10.50. NET.....8.74



STAPLES FOR MODEL T-32

No.	Width	Length	Quantity	Wt.	NET
47N 096	7/16"	1/4"	5000	1 lb.	1.87
46N 063	7/16"	5/16"	5000	1 lb.	2.08

T-50 GENERAL PURPOSE STAPLER

Heavy-duty gun takes six staple sizes for many uses. Excellent for screening, insulation, canvas, wire, ceiling tile, photography, etc. Double leverage action for powerful drive with minimum squeeze pressure. Patented non-jamming mechanism. All steel construction with chrome finish. Loads 85—.050" staples. 5 1/2x7 1/8x3/4". Shpg. wt., 2 lbs.
46 N 292. List, \$12.50. NET.....10.41

STAPLES FOR MODEL T-50

No.	Width	Length	Quantity	Wt.	NET
45N 792	3/8"	3/8"	5000	1 lb.	2.29
45N 793	3/8"	1/2"	5000	1 lb.	2.08
45N 789	3/8"	5/16"	5000	1 lb.	2.20
46N 294	3/8"	9/16"	5000	1 lb.	2.92

MODEL T-25 CABLE STAPLER

Excellent gun for precise, rapid stapling of all round wires or small objects up to 1/4" diameter. Ideal for telephone, thermostat, intercom, or doorbell wiring. Gun has grooved guide—for exact fit of staple over wire. Also has automatic stop. Loads 85 rounded-crown staples. Size, 5 1/2x7 1/8x3/4". Shpg. wt., 2 1/4 lbs.
46 N 491. List, \$15.00. NET.....12.49

STAPLES FOR MODEL T-25

No.	Width	Length	Quantity	Wt.	NET
45N 790	1/4"	3/8"	5000	1 lb.	3.33
46N 492	1/4"	7/8"	5000	1 lb.	3.33
45N 791	1/4"	9/16"	5000	1 lb.	3.74

MODEL T-75 CABLE STAPLER

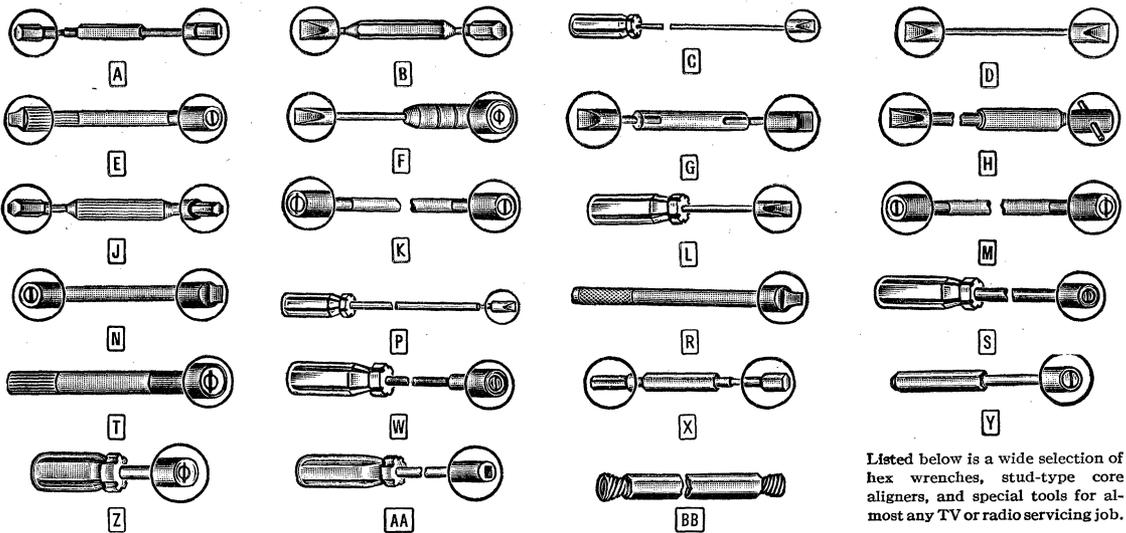
Powerful gun for non-metallic sheathed cable or objects up to 1/2" in diameter. Groove in gun envelops wires and cables to assure clean damage-free stapling. All steel construction with chrome finish. Automatic stop-guard for uniform penetration of staples. Load capacity, 53—.075" staples. 5 3/4x7 1/8x3/4". 2 1/4 lbs.
46 N 493. List, \$15.00. NET.....12.49

STAPLES FOR MODEL T-75

No.	Width	Length	Quantity	Wt.	NET
45N 798	1/2"	9/16"	1000	1 1/4 lbs.	1.88
45N 799	1/2"	1 1/8"	1000	1 1/4 lbs.	1.88
46N 494	1/2"	3/8"	1000	1 1/4 lbs.	2.08

Alignment Tools and Servicing Aids

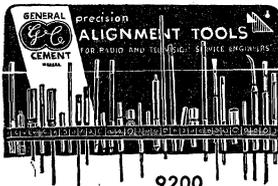
GENERAL CEMENT TV ALIGNMENT TOOLS



Listed below is a wide selection of hex wrenches, stud-type core aligners, and special tools for almost any TV or radio servicing job.

Stock No.	Type	Fig.	Description	Oz.	NET	Stock No.	Type	Fig.	Description	Oz.	NET
42 N 377	8606	A	Zenith-Admiral nylon hex wrench	3	.44	42 N 392	M	8721	9" duplex #4 & #6 stud aligner	3	.73
42 N 380	8282	B	Zenith wrench and aligner	3	.32	42 N 393	N	8722	7" duplex #4 & #6 stud aligner	3	.62
42 N 385	8988	C	12" blade plastic screwdriver	3	.32	42 N 395	P	8277	2 1/2" duplex tip aligner	3	.47
42 N 388	8728-A	D	As above, but 16" blade	3	1.18	42 N 396	8607	P	1 1/2" nylon tip aligner	4	1.06
42 N 389	8728	D	7" long bone-fiber screwdriver	3	.35	42 N 397	8608-E	.....	Replacement nylon tip for above	3	.18
42 N 390	8729	D	As above, but 12" long	3	.41	42 N 396	5000	R	Alignment screwdriver	3	.26
42 N 398	8276	E	As above, but 16" long	3	.53	42 N 397	8273	S	All-purpose TV aligner	3	.65
42 N 381	8275	F	Short duplex aligner	3	.47	42 N 398	8196	T	2 1/2" TV and FM tuning tool	3	.35
42 N 383	5097	G	Zenith universal aligner	3	.47	42 N 399	8272	W	IF and oscillator aligner	3	1.03
42 N 379	8274	H	K-Tran and IF aligner	3	.56	42 N 346	9296	X	1 1/2" nylon hex (.075") wrench	4	.59
42 N 391	9071	I	9" nested core aligner	3	.71	42 N 347	9050-L	Z	Zenith nylon hex wrench	3	.44
42 N 379	9071	I	12 1/2" hex nylon wrench	3	.44	42 N 349	6035	AA	2" blade alignment tool	3	.38
42 N 382	8291	K	Stackpole stud-type core aligner	3	.53	42 N 409	9147	BB	RCA VHF channel selector wrench	3	1.03
42 N 394	8195	L	Channel tuning tool	3	.65				1/4" & 5/16" hex nut starter	3	1.47

G-C TOP-QUALITY ALIGNMENT TOOL KITS

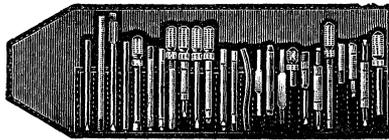


9200

Type 9200 Panel Kit. A convenient, wall-mounting type kit of the most-needed alignment tools. Contains 27 different tools for all popular makes of TV sets. Each tool has separate slot identified by shape and size number. Correct tool may be selected at a glance. All tools in this kit are selected to cover most alignment jobs on all popular radio and TV sets. The finest materials are used throughout—low-loss plastics, tips of hardened spring steel and extra-hard bone fiber that can be re-ground as tool wears.

Includes: Alignment screwdrivers in various lengths, special short tools, alignment wrenches, channel tuners, core aligners, oscillator adjustment tools, trimmer and IF aligners, solder probe tool, stainless steel brush and scraper, nylon replacement tip, special hex tools, etc. Tools are stored in a handsome three-color steel panel, drilled for two-hole mounting. Shpg. wt., 3 lbs.

42 N 341, List, \$25.50. NET 14.99



8283

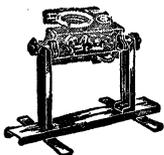
Type 8283 Master Deluxe TV Tool Kit. A complete service alignment tool kit for television repair work. Contains 25 high-quality alignment tools not over 9" long. Flexible tool-case has heavily stitched edges and fold-over flap to prevent loss of tools. Kit is easily carried. Includes: TV K-Tran tool, TV Core Aligner, TV Long Reach Aligner, TV Flexible Wand, TV Short Tool for IF, etc. Leatherette roll case. Shpg. wt., 1 lb.

42 N 005, List, \$20.85. NET 12.26

Type 8280 Deluxe Television Alignment Tool Kit. Handy roll-type durable leatherette case with 16 specially engineered TV tools. The steel tips are all extra thin and are made of the best grade of hardened spring steel of accurate dimensions and high durability. Case lies flat when opened. Includes TV "Shorty", Duplex Aligner, TV Tuning Wand, TV Core Aligner, TV Oscillator Tool, TV Long Reach Aligner, etc. Shpg. wt., 8 oz.

42 N 006, List, \$12.90. NET 7.59

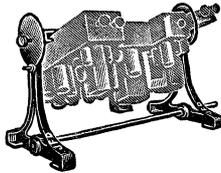
G-C CHASSIS CRADLE



Model 6212. Easy-to-use, adjustable cradle holds chassis securely. A valuable accessory for the serviceman, builder and experimenter. Eliminates fumbling with makeshift setups to hold bulky chassis—prevents breakage of tubes or other above-chassis parts and equipment. Job is quickly and easily clamped into position. Complete 360-degree rotation permits tilting work to the most convenient angle. Ideal for working on power supplies, TV sets, transmitters, record changers, etc. All-steel construction. Size, 24" long, 14" high, 12 1/2" wide. Shpg. wt., 7 lbs.

86 NX 034, NET 7.35

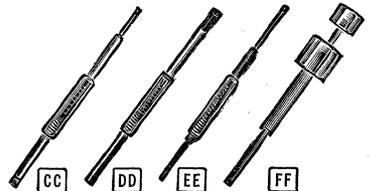
JFD "REPAIRACK"



Model 79-3. Sturdy, cast-iron rack for supporting chassis. Securely holds any chassis of up to 200 lbs. Full 360-degree rotation permits positioning work to any convenient angle. Designed to accommodate practically any chassis up to 32" in length. Greatly simplifies servicing jobs on large, heavy chassis. Allows faster, more efficient repair work. Separate chassis clamps on each side have thumbscrews that provide safe, positive holding action. 14 3/4 x 32 x 15 1/2". Wt., 18 lbs.

86 NX 038, NET 19.61

WALSCO TEL-A-TURN ALIGNMENT TOOLS



CC No. 2587 Tel-A-Turn Screwdriver. Tuning tool of tough fiberglass. Automatically counts turns. Standard tips on one end, small 3/8" tip on other end. Shpg. wt., 3 oz.

42 N 342, NET 97c

DD No. 2586 Tel-A-Turn IF Aligner. Fiberglass tuning tool that automatically counts turns. One end fits #4 stud, the other fits #6 stud. Shpg. wt., 3 oz.

42 N 343, NET 97c

EE No. 2588 Tel-A-Turn Hex Aligner. Valuable tool of fiberglass that automatically counts turns. One end is .100" hex, the other end is .125" hex. Shpg. wt., 3 oz.

42 N 344, NET 97c

FF No. 2589 Concentric Color-TV Tool. New non-conductive tool for concentric type color-TV control shafts. Separate knobs for outer and inner controls. Shpg. wt., 3 oz.

42 N 345, NET 1.17

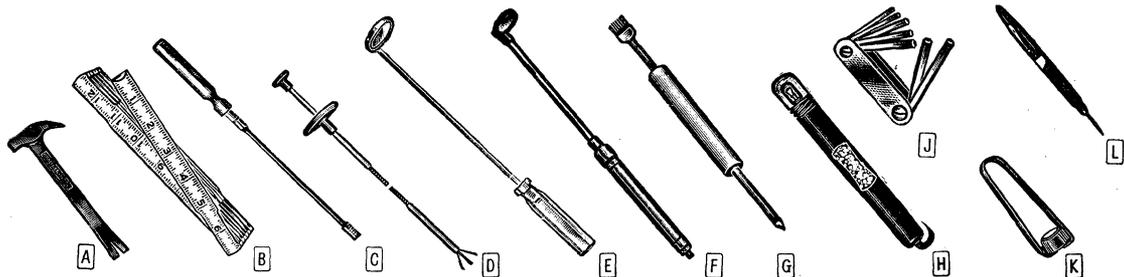
REAR CONTROL TV TUNING AID



Highly useful fingertip tuning aid for remote adjustment of television rear panel controls. A tool kit "must" item for the television serviceman or technician. No mirrors needed. Has sturdy alligator clip attached to one end of long-life cable; small knob at other end for tuning. Simply attach clip to any rear mounted control—bring cable around to front of television set and turn knob to make adjustments while observing results directly on television screen. Permits making adjustment in minimum time. Pays for itself in time and trouble saved. Flexible—rolls up to carry. Overall length, 5 ft. Shpg. wt., 8 oz.

46 N 248, NET 2.98

Quality Tools and Slide Rules



ALL-PURPOSE SERVICING TOOLS

A All-Steel Utility Hammer. Claw handle for pulling nails, dismantling cabinets, etc. Made of finest hardened and tempered steel—withstands roughest use. Excellent for use in workshop or home. Ideal size for carrying in tool box or belt. Overall length, $9\frac{1}{2}$ ". Shpg. wt., $1\frac{1}{4}$ lbs. 43 N 900. NET.....83c

B Millers Falls Model 1460 6-ft. Rule. 6-ft. folding rule for the shop worker or handy-man. Has large easy-to-read black numerals on white enamel background. Graduated in 16ths. Made of selected hardwood, with concealed brass-plated joints that assure smooth easy action. Shpg. wt., 5 oz. 50 N 147. NET.....64c

C Hunter TV-12 Tuning Slug Retriever. Retrieves Standard Coil slugs without removing chassis from cabinet. Automatic holding mechanism. 11" L. Wt., 9 oz. 42 N 012. NET.....2.64

Type TV-16. As above but 15" long. 42 N 013. NET.....3.18

Type TV-20. As above but 20" long. 46 N 452. NET.....3.92

D Miller 345 Pick-Up Tool. Invaluable for the serviceman. Press button to open claws—release to close over object. Flexible 14" shaft. Shpg. wt., 1 lb. 42 N 014. NET.....89c

E G-C 5090 Inspection Mirror. For inspecting parts, connections, etc. in tightly wired radio and TV sets, auto radios, etc. Handy for reading parts numbers and inspecting solder and wire connections in out-of-sight places. 8" length allows user to get into crowded chassis with ease. Indispensable for radio and TV servicemen, Amateurs, experimenters, etc. Mirror dia., 1". Shpg. wt., 5 oz. 42 N 121. NET.....35c

F G-C 8725 Illuminated Inspection Mirror. Permits inspection of parts otherwise hidden from sight. Consists of anodized aluminum flashlight with 6" lucite rod and 1" hinged-mounted mirror. Plastic housing prevents shocks. Locking switch allows one-hand operation. With bulb. Requires 2 penlight cells (below). 12 1/4" Shpg. wt., 6 oz. 42 N 130. NET.....1.91

Burgess Type Z Cell. 1 1/2-volt cell for use with 42 N 130, above. Shpg. wt., 3 oz. 53 J 031. NET EACH.....9c

G G-C 9088 Soldering Aid Tool. A "must" for easier soldering. One end has a stiff wire brush for cleaning wire and terminals before soldering; other end is specially shaped to hold wires securely during soldering. Solder will not stick to chrome-tipped, probe end of tool. Especially handy for printed circuit repairs, neat solder connections, etc., 8" long. Shpg. wt., 4 oz. 42 N 001. NET.....97c

H G-C 705 Handy Trouble Light. No radio-TV serviceman or technician should be without this handy light. Illuminates dark corners in chassis—excellent for visual inspection of components in cabinets, etc. Casts light without glare; small size won't get in the way. With bulb and 3 1/2-ft. cord. For 110-120 v., AC or DC. Shpg. wt., 1/2 lb. 42 N 120. NET.....1.32

J Vichok Hex Key Wrench Set. Hardened nickel-chrome alloy steel wrenches. Fitted in a steel frame like pocket-knife blades. Each wrench can be used independently in most suitable position. In popular sizes from .050" to 3/16". Nickel-plated steel frame. Handy, plastic carrying case. Shpg. wt., 4 oz. 50 N 128. NET.....95c

K Knob-Puller. A very helpful tool kit item. Knob-puller easily removes all types of hard-to-grip, push-on knobs. Simply place blades in back of knob, close handles, and pull forward. Prevents damaging either knob or cabinet. Shpg. wt., 4 oz. 46 N 077. NET.....29c

L Pres-To-Oiler. Press on plunger to release one drop of oil. Prevents over-oiling. Transparent fountain-pen reservoir holds oil supply. Also ideal for dispensing radio and TV chemicals in hard-to-reach places. Contains oil—ready to use. Shpg. wt., 3 oz. 46 N 065. NET.....95c

MILLERS FALLS TORPEDO LEVEL



Model 690. Accurate, lightweight level with one 45° plumb, one 90° plumb and one level. Molded, high-strength, glossy, black bakelite body. Top plate of heavy, polished "nickeloid"; sets flush with body to protect the level glass. Plumbs and level vial are of highly visible blue and level vial are of highly visible unattractive eye-type. Impervious to moisture, unaffected by changes in temperature. Bottom has V-groove running its entire length. Size, 9x1 1/2x3/4". Shpg. wt., 7 oz. 46 N 309. NET.....1.87

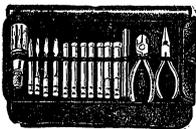
EXACT "HANDYLEVEL"



Model PL-24. Here's an exceptionally fine value in a new, quality-constructed level. A very dependable aid for anyone doing construction or repair jobs—excellent for use by carpenters, custom hi-fi installers, cabinet-makers, "do-it-yourself" enthusiasts, etc. Provides highly accurate leveling in both horizontal and vertical positions. The easy-to-handle, 24"-long frame is made of rugged, lightweight, die-cast aluminum. Features shock-proof Pyrex vials which are permanently sealed in plastic inserts. Vials are large and easy to sight. Size: 24" long, 1 1/8" thick, 1 1/8" wide. Shpg. wt., 1 1/2 lbs. 46 NX 927. NET.....2.25

STEVENS-WALDEN TOOL SETS

"SPINITITE" SET 3800B15



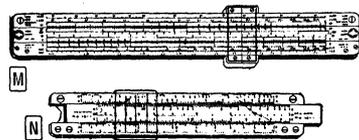
Deluxe 15-piece radio and electrical set. Includes 7 hex wrenches in following sizes: 3/16", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8", and 1/2"; three screwdrivers; one combination reamer andawl; and one universal handle which holds all 5" shafts. Also includes 6" long-nose pliers, 5" diagonal cutters, and insulated screwdriver and wrench. Valuable tool set for the radio-TV repairman. Supplied complete with leatherette tool roll. Shpg. wt., 2 1/4 lbs. 46 N 055. NET.....13.59

"MIGIT" RADIO WRENCH SET



Model 3100C14. This compact, 14-piece socket set will cover almost all hex-head bolts and nut sizes encountered in radio-television servicing. A highly valuable wrench set for repairmen, technicians, etc. Universal joint handle with sliding "T" bar, and one straight spin type amber plastic handle. Eight hex sockets, 3/16" to 7/8", 3 double-nut sockets. Chrome-plated tools; bright enamel-finished case. Shpg. wt., 1 1/4 lbs. 46N 165. NET.....5.52

ACU-MATH SLIDE RULES



Model 1311 Professional 10" Slide Rule. Extremely accurate, high-quality 10" slide rule. Deluxe features include white nitrate plastic sheet face, bonded to corrosion-resistant magnesium core; stainless steel brackets; crystal-clear lucite cursor; inlaid calibrations and numerals; Trig and Log Log numerals in red. Scales on one side: LL01, L, K, A, B, T, ST, S, D and LL1. Other side: LL02, L003, D, CF, C1F, C1, C, D, LL3, and LL2. Supplied complete with sheath and instruction booklet. Shpg. wt., 1 lb. 46 N 333. List, \$13.95. NET.....9.95

Model 1211 6" Pocket Slide Rule. Precision-made, highly readable pocket slide rule. Employs same quality construction features as the Model 1311 above, but with fewer scales. Perfect low-cost rule for the student. Scales on one side: K, A, B, C1, C, D and L; S and T on other. Fluid-action, slide assembly; clear lucite cursor. Inlaid, permanently accurate calibrations are quick and easily read. Supplied complete with simulated-leather sheath and easy-to-follow instruction book. Shpg. wt., 5 oz. 46 N 332. List, \$3.95. NET.....2.99

MOODY WRENCH AND SCREWDRIVER SETS

SCREWDRIVER SETS

Type SC-5. Set of miniature screwdrivers contains 5 interchangeable hardened steel blades in sizes .001", .080", .070", .055" and .040". Blades insert quickly and firmly into screw type chuck. Excellent for camera and watch repairing, model building, radio and appliance repairing. Complete set of five blades, handle and plastic base with transparent dust cover. Base keeps blades in place, easy to find. Shpg. wt., 8 oz. 43 N 859. List, \$1.50. 1-11, EA.....99c

Type PA-5. Combination Phillips Head Screw set and Allen head wrench set. Contains No. 0 and No. 1 Phillips type driver and Nos. 4, 6, and 8 Allen type wrench. With handle, stand and cover. 7 oz. 43 N 857. List, \$2.50. 1-11, EACH.....1.64

12 sets or more, EACH.....1.47

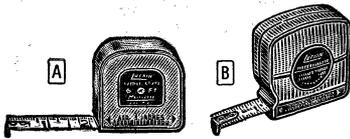
MAGNETIC SOCKET WRENCH SET

Type BW-5. Wrench kit containing five tiny, interchangeable hexagonal socket wrenches with magnetized swivel top handles. Provide easy means of removing or inserting small nuts or screws in hard-to-get-at places—magnet retrieves small, metal parts. Particularly suitable for close work in crowded radio and TV chassis. A highly valuable tool kit for the repairman, hobbyist or experimenter and builder. Wrenches are quickly and easily interchangeable, fit snugly and securely in screw type chuck. Socket wrench sizes are: 3/16", 3/32", 7/64", 1/8" and 5/32". Wrenches are made of heat treated steel. Handle is nickel-plated brass. In transparent plastic container with attractive colored base. Shpg. wt., 5 oz. 43 N 862. List, \$3.95. NET.....2.61

12 sets or more, EACH.....2.39

Hardware and Measurement Tools

LUFKIN TAPE RULES



- Plain Easy-to-Read Graduations
- Self-adjusting End Hooks
- Attractive Die Cast Cases

WHITE CLAD MEZURALL TAPE RULES

A White clad $\frac{1}{2}$ " wide Mezurall steel tape rules. Practical, all purpose tape rules for construction and general home use. Easy-to-read jet black markings against a durable, snow white background on bonderized, tempered steel blade. Self-adjusting end hook for accurate butt end and hook-over measurements. Marked on both edges one side. First 12 inches of upper edge graduated to 32nds; balance to 16ths.

- W226 6-Ft. Tape Rule, Shpg. wt., 4 oz. 50 N 175. List, \$1.10. NET.....78c
- W228 8-Ft. Tape Rule, Shpg. wt., 5 oz. 50 N 176. List, \$1.35. NET.....97c
- W2210 10-Ft. Tape Rule, Shpg. wt., 6 oz. 50 N 177. List, \$1.65. NET.....1.19
- W2212 12-Ft. Tape Rule, Shpg. wt., $7\frac{1}{2}$ oz. 50 N 178. List, \$1.98. NET.....1.32

MEZURMATIC TAPE RULES

B White clad tape rules with touch control blades, ball bearing rewind governors, heavy-duty end hooks and non-slip design cases. Gentle pressure on control button lets blade glide smoothly back into case. Governor controls rewind speed. End hook self-adjusting for accurate measurements. Blade graduated on top edge in feet and inches to 16ths, bottom edge in 16ths with the first 12 inches graduated to 32nds. Bold, jet black markings are on snow white background.

- W228 8-Ft. Tape Rule, Shpg. wt., 7 oz. 50 N 179. List, \$1.55. NET.....1.09
- W2210 10-Ft. Tape Rule, Shpg. wt., $7\frac{1}{2}$ oz. 50 N 180. List, \$1.89. NET.....1.29
- W2212 12-Ft. Tape Rule, Shpg. wt., 8 oz. 50 N 181. List, \$2.19. NET.....1.46

CHROME-CLAD MEZURMATIC TAPE RULES

B As above with durable, non-glaring, rust and corrosion resistant, chrome clad blades. Series of electro platings strengthens all metal blades. Final plating is satin chrome white. Contrasts sharply with bold, jet black graduations on both edges, 16ths on one edge with first 12" to 32nds on other edge.

- W228 8-Ft. Tape Rule, Shpg. wt., 7 oz. 50 N 182. List, \$2.15. NET.....1.43
- W2210 10-Ft. Tape Rule, Shpg. wt., 7 oz. 50 N 183. List, \$2.50. NET.....1.67

BANNER WHITE-CLAD TAPES

High-quality $\frac{1}{2}$ " wide steel tapes featuring durable construction and accurate, highly legible markings. The ideal general-purpose measuring tape for carpenters, plumbers, surveyors, and for general shop use. Have easy-to-read jet black figures and graduations on a snow white background. The hard, smooth, triple-baked synthetic finish on bonderized steel is easy to keep clean, extra mar-proof. Hook ring on free end for "walk-away" measuring. Durable, vinyl covered, steel case. Folding flush handle is opened by push pin. Easy action crank mechanism rewinds tape rapidly. Shpg. wts., HW225 1 lb.; HW226 2 lbs.

Stock No.	Mfr's No.	Length	List	NET
50 N 184	HW223	50'	5.29	3.52
50 N 185	HW226	100'	7.29	4.86

HANSON ECONOMY 1" MICROMETER

Pre-Tested and Adjusted

Precision-made micrometer. Has fine-range accuracy of .0005". Excellent for the Amateur and experimenter. An aid for grinding crystals, precise measurement of metal thickness, etc. Carefully designed to assure minimum frame distortion. Employs smooth-operating, screw-type anvil to permit simplified zero adjustment. Includes spring-friction stop for improved accuracy. Frame, thimble and ratchet are fully chrome-plated to inhibit rust. Each micrometer pre-tested and factory adjusted. Shpg. wt., 7 oz.

- 46 N 249. NET.....2.77

BARGAIN HARDWARE KIT



- Versatile Assortment
- Handy Container

Save on this amazingly low priced assortment of rivets, rubber grommets, nuts, screws, lock washers, right angle brackets, self-tapping screws, eyelets, and other useful radio and TV hardware. Valuable collection of often needed parts for the electronics repairman, hobbyist and ham operator. Includes nickel and cadmium plated, and solid aluminum pieces. Supplied in convenient transparent plastic container. Shpg. wt., $1\frac{1}{4}$ lbs.

- 44 N 315. NET.....97c

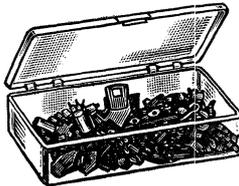
G-C SCREW AND NUT ASSORTMENT



No. 7060. Two-pound assortment of most often used nuts and screws in radio-TV, electronics repairing, experimenting and building. A valuable assortment for the ham, hobbyist, repairman. Also excellent for household repairs. Nut sizes from 4-40 to 8-32, screw sizes from $\frac{1}{4}$ " to 1". All pieces nickel and cadmium plated. Rust resistant. Supplied in handy plastic container. Shpg. wt., $2\frac{1}{4}$ lbs.

- 50 N 030. NET.....87c

G-C HOME-SHOP ASSORTMENTS



Handy assortments of most-often-needed hardware. Provide many hard-to-get screws, springs, solder lugs, nuts, and bolts often needed by experimenters and craftsmen. Packed in sturdy lightweight plastic storage containers. Contents can be quickly identified from any angle. Have tight-sealing, hinged covers to keep out dirt and moisture.

No. 9116 Solder Lug Assortment. Includes generous quantity of different size solder lugs. For all types of electrical connections—particularly suited for radio chassis, control panels, test instruments, laboratory equipment, etc. Shpg. wt., $1\frac{1}{2}$ lbs.

- 43 N 370. NET.....97c

No. 9117 Screw and Nut Assortment. Contains various size screws, nuts and bolts. Ideal addition to the tool box for repair jobs. Popular sizes used for mounting terminal strips, transformers, tube sockets, relays, switches, etc. Shpg. wt., $1\frac{1}{2}$ lbs.

- 43 N 371. NET.....97c

No. 9118 Spring Assortment. Package of different type springs for use with dial cords, push-buttons, etc. Includes both extension and compression springs. Shpg. wt., $1\frac{1}{2}$ lbs.

- 43 N 372. NET.....97c

No. 9193 Sheet Metal Screw Assortment. A selection of sheet metal screws for all applications. 700 screws in sizes $4\times\frac{1}{2}$ " to $8\times 1"$. In compartmented plastic box. Shpg. wt., 2 lbs.

- 50 N 172. NET.....3.24

No. 9199 Machine Screw Assortment. A complete assortment of round head screws and nuts most often needed in electronics and radio-TV repairing. Machine screws from $4-40\times\frac{1}{2}"$ through $8-32\times\frac{1}{4}"$. Hex nuts from $4-40"$ through $8-32\times\frac{1}{4}"$. 675 pieces total, in plastic box. Wt., $1\frac{1}{2}$ lbs.

- 50 N 173. NET.....3.24

CENTRAL 1" PRECISION MICROMETER



- Positive Lock
- Easy to Read

Model 12RL. A high quality, moderately priced 0-1" micrometer designed for the critical user. An ideal tool for the machine shop, auto shop or the hobbyist. Spindle has ratchet that adjusts to any touch for accurate measurements. Extra space between large graduations for easy, accurate readings. Has precision ground, highly polished spindle and anvil. Black steel frame and knurled, chromium plated thimble. Can be locked at any setting. Pre-adjusted with gauge blocks. Wt., 8 oz.

- 50 N 060. List, \$13.50. NET.....9.95

LABELON "WRITE-ON-IT" TAPE



Plastic labeling tape with special carbon writing surface sandwiched between 2 layers of acetate. Writing stays legible; surface is protected by layer of plastic. Resists dirt, water, oil, etc. Sticks firmly to any surface without moistening—peels off cleanly. *Black. †Red. ‡Blue. Av. wt., per 400-in. roll, 5 oz.

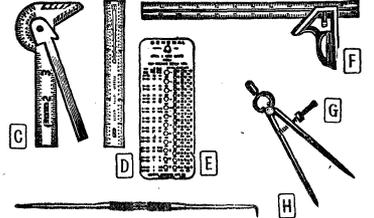
Stock No.	Mfr's Type	Width EACH	NET EACH	12-23 EACH	24 or More, EACH
52 N 751	335†	$\frac{3}{8}$ "	1.37	1.24	1.18
52 N 753	415†	$\frac{1}{2}$ "	1.57	1.42	1.35
52 N 754	425‡	$\frac{1}{2}$ "	1.57	1.42	1.35
52 N 755	435†	$\frac{1}{2}$ "	1.57	1.42	1.35
52 N 757	515*†	$\frac{1}{2}$ "	1.76	1.59	1.51
52 N 761	615*†	$\frac{3}{4}$ "	1.91	1.72	1.63

TABULETS FOR TYPEWRITER USE

Each has 45, 3-inch strips. Write black; colors given are borders. Av. wt., 5 oz.

Stock No.	Type	Width	Color	NET EA.
52 N 775	62T	$\frac{3}{4}$ "	Blue	98c
52 N 776	63T	$\frac{3}{4}$ "	Red	
52 N 777	64T	$\frac{3}{4}$ "	Green	
52 N 778	64T	$\frac{3}{4}$ "	Green	

CHASSIS LAYOUT TOOLS



C Multi-purpose Steel Rule. Can be used as 4" scale in 32nds and 64ths, drill point gauge, square, bevel protractor, center finder, circle divider, tap-drill table. Made of stainless steel. In leather case. Shpg. wt., 4 oz.

- 46 N 153. NET.....1.26

D 6" Steel Rule and Wire Gauge. Made of stainless steel. Front graduated in 32nds and 64ths, also B & S. wire gauge. Back has decimal equivalents. Identifies No. 8 to 20 wire. Shpg. wt., 2 oz.

- 46 N 061. NET.....41c

E Drill and Steel-Wire Gauge. For gauging machine screw taps, sizes 1 to 60. Indicates decimal equivalents. Lists taps with tap-drill and body-drill sizes, $\frac{1}{4}$ -28 to 2-56. Made of heavy-gauge steel, specially hardened and tempered. Shpg. wt., 5 oz.

- 46 N 060. NET.....1.29

F Combination Steel Rule. 12" etched-steel combination square. Graduated on both sides in 32nds, 16ths, and 8ths. Head has thumbscrew for locking. 45 degree angle for bevel cuts. Shpg. wt., $1\frac{1}{4}$ lbs.

- 46 N 154. NET.....1.40

G Steel Dividers. Stiff tempered, bow spring and tapered fulcrum spoon to assure rigidity and accurate measuring. Needle points are replaceable. Split adjusting nut. Length, 6". Shpg. wt., 6 oz.

- 46 N 089. NET.....2.45

H 9" Scriber. Two-point machinists' scriber with knurled and finger-hold. Wt., 3 oz.

- 46 N 197. NET.....41c

12" Stainless Steel Bench Rule. (Not included) Has two sides graduated in 8ths, 16ths, 32nds, and 64ths. $\frac{1}{4}$ " wide. Shpg. wt., 2 lbs.

- 46 N 088. NET.....65c

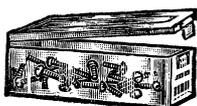
NEW VLCHER TOOL KIT



General purpose tool kit for small gasoline motors on power mowers, etc. Includes $\frac{3}{8}\times\frac{1}{8}"$, $\frac{1}{2}\times\frac{3}{8}"$, $\frac{3}{8}\times\frac{1}{4}"$ and $\frac{1}{4}\times\frac{1}{8}"$ open end wrenches; Phillips screwdriver; standard-type screwdriver; 6" pliers; pump pliers; spark-plug wrench; key wrench set; and shear pin punch. With plastic pouch. Wt., 3 lbs.

- 50 N 196. NET.....4.99

Hardware for Plant and Shop



General hardware for radio-TV construction and repair. Available in 32¢ quantities packed in plastic boxes or in lots of 144 and 1000. Nuts, screws and washers are nickel plated except Fig. C (brass finish).

A Round Head Screws. General-purpose type in most sizes required for repair and construction jobs in radio, television and electronics. Plated steel. Shpg. wts.: 3 oz.; 14 oz.; and 5 lbs.

Size	32¢ container		144 Lot Pkg.		1000 Lot Pkg.	
	No.	Quan.	No.	NET	No.	NET
4-36x1/4"	44 N 502	40	44 N 741	.64	44 N 742	3.79
4-36x1/2"	44 N 503	35	44 N 744	.69	44 N 745	4.10
4-36x3/4"	44 N 504	35	44 N 747	.79	44 N 748	4.76
6-32x1/4"	44 N 505	40	44 N 703	.71	44 N 704	4.16
6-32x1/2"	44 N 506	30	44 N 711	.81	44 N 712	4.83
6-32x3/4"	44 N 507	30	44 N 716	.95	44 N 717	5.69
6-32x1"	44 N 508	30	44 N 721	1.09	44 N 722	6.53
6-32x1 1/4"	44 N 509	30	44 N 726	1.31	44 N 727	7.83
8-32x1/4"	44 N 518	30	44 N 738	.91	44 N 739	5.43
8-32x1/2"	44 N 519	25	44 N 753	.98	44 N 754	5.86
8-32x3/4"	44 N 529	25	44 N 756	1.06	44 N 757	6.35
8-32x1"	44 N 535	25	44 N 761	1.22	44 N 762	7.27
8-32x1 1/4"	44 N 546	20	44 N 768	1.39	44 N 769	8.32
10-32x1/4"	44 N 548	20	44 N 777	1.25	44 N 778	7.48
10-32x1/2"	44 N 549	20	44 N 780	1.46	44 N 781	8.75
10-32x1"	44 N 553	17	44 N 783	1.65	44 N 784	9.84

B Self-Tapping Screws. Flat-slotted type. Ideal for panel and rack mounting. No tapping of metal required. Plated steel. Hex head—with deep screwdriver slot. Shpg. wts.: 4 oz.; 12 oz.; and 4 1/2 lbs.

Size	32¢ container		144 Lot Pkg.		1000 Lot Pkg.	
	No.	Quan.	No.	NET	No.	NET
4x1/4"	44 N 564	35	44 N 803	1.26	44 N 804	7.57
6x1/4"	44 N 565	30	44 N 808	1.26	44 N 809	7.57
8x1/4"	44 N 566	20	44 N 813	1.40	44 N 814	8.38
8x1/2"	44 N 567	20	44 N 833	2.28	44 N 834	13.67
10x1/2"	44 N 569	15				



Solder Lugs. Sturdy, tinned solder lug units. Easily accommodate the screw numbers given below; No. 8 holes also take No. 6 screws. Shpg. wts.: 2 oz.; 4 oz.; and 1 lb.

Size	32¢ container		144 Lot Pkg.		1000 Lot Pkg.	
	No.	Quan.	No.	NET	No.	NET
# 8 Fig. H.	44 N 603	30	44 N 636	1.49	44 N 637	9.33
# 8 Fig. J.	44 N 604	30	44 N 639	.65	44 N 640	9.37
#10 Fig. K.	44 N 605	30	44 N 642	1.94	44 N 643	11.60
# 8 Fig. L.	44 N 607	30	44 N 645	1.64	44 N 646	14.35
# 8 Fig. M.	44 N 608	30	44 N 648	1.15	44 N 649	6.85

N Rubber Grommets. Soft, black stock. Size shown below is chassis mounting hole required. Shpg. wts.: 2 oz.; 8 oz.; and 4 lbs.

1/4"	44 N 618	16	44 N 436	1.46	44 N 437	8.75
3/8"	44 N 619	14	44 N 439	1.65	44 N 440	9.88
1/2"	44 N 620	12	44 N 442	2.20	44 N 443	13.23
3/4"	44 N 621	10	44 N 445	1.94	44 N 446	14.35
1"	44 N 628	8	44 N 448	3.78	44 N 449	22.59

P Rubber Tack Bumpers. Tacks molded-in. For wooden cabinets, etc. Shpg. wts.: 2 oz.; 8 oz.; and 4 lbs.

3/8" O.D.	44 N 774	10	44 N 163	2.42	44 N 164	14.49
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HANDY PLASTIC BOXES OF MOST-OFTEN NEEDED SERVICING HARDWARE

Most-often needed hardware used in radio, TV and electronics—packaged in convenient plastic boxes. No loss or spillage.

Stock No.	Description	Quan.*
43 N 332	Extra small size escutcheon and wood screws.	25
43 N 302	Wood screws w/round and countersunk heads.	25
43 N 300	1/4"-1" mach. screws w/round & flat heads: Nos. 6, 8, 10.	35
43 N 301	Nos. 2 & 4 screws & nuts.	35
43 N 367	TV back-cover screws.	20
43 N 304	Nickel-plated rack screws & cup washers.	15
43 N 303	Sheet metal screws, ass.—6, 8, 10. Round, hex-slotted & unslotted.	25
43 N 318	Phono needle set screws—2-56, 2-64, 1-72.	12
43 N 329	Spade bolts, #6 hole size.	15
43 N 306	Assorted set screws—6-32, 8-32, 10-32.	15
43 N 322	Self-locking speed nuts.	30
43 N 311	Internal lockwashers, tempered. No. 2 to 3/8".	30
43 N 307	Machine screw nuts—6-32, 8-32, 10-32.	30
43 N 308	Hex & ring mounting nuts. Used on controls, switches, etc.	15
43 N 330	Insulating washers. Nos. 6 to 3/8".	35
43 N 312	Steel washers for #4, 6, 8, 10, 1/4" screws.	80
43 N 313	Rings & C-washers for 3/16"-1/4" shafts.	25
43 N 316	Snap-hole plugs—1/4" to 1".	6
43 N 317	Asst. ventilating hole plugs.	3
43 N 341	TV cord rivets, 1/16"-1/8" diam., w/washers.	50

*Approximate quantities.
NET PER BOX.....32c

Industrial Users: Allied can make immediate shipment from stock on all radio-TV hardware, below, in 144 and 1000 quantity lots. Orders can be placed by phone, wire or letter.

C Ornamental Head Screws. For use on panels, etc. Shpg. wts.: 4 oz.; 13 oz.; 6 lbs.

Size	32¢ container		144 Lot Pkg.		1000 Lot Pkg.	
	No.	Quan.	No.	NET	No.	NET
6-32x 3/4"	44 N 573	25	44 N 671	1.40	44 N 672	8.38
8-32x1 1/4"	44 N 575	12	44 N 677	2.08	44 N 678	12.50

D Binding Head Machine Screws. For general machine shop use. Plated. Shpg. wts.: 4 oz.; 7 oz.; and 2 1/2 lbs.

6-32x1/4"	44 N 576	35	44 N 690	.70	44 N 694	4.15
6-32x3/8"	44 N 577	35	44 N 691	.73	44 N 695	4.41
6-32x1/2"	.....	.....	44 N 684	.91	44 N 682	3.06
8-32x1/2"	.....	.....	44 N 685	.99	44 N 624	3.70
8-32x3/4"	.....	.....	44 N 687	1.05	44 N 625	3.96

E Hex Nuts. Plated steel. Shpg. wts.: 4 oz.; 8 oz.; 3 lbs.

4-36x1/4"	44 N 584	30	44 N 906	.87	44 N 907	5.18
6-32x3/8"	44 N 579	30	44 N 910	.96	44 N 911	5.70
8-32x3/8"	.....	.....	44 N 915	1.15	44 N 916	5.15
10-32x3/8"	44 N 585	30	44 N 918	1.25	44 N 919	7.53
6-32x1/2"	44 N 586	30	44 N 937	.90	44 N 953	5.40
8-32x1/2"	44 N 587	30	44 N 938	.96	44 N 954	5.73

F Split Lockwashers. Tempered steel. Wts.: 2 oz.; 4 oz.; 2 lbs.

# 6 screw	44 N 588	65	44 N 662	.59	44 N 663	3.56
# 8 screw	44 N 589	55	44 N 665	.49	44 N 666	2.94

G Internal Star Lockwashers. Shpg. wts.: 2 oz.; 4 oz.; 1 1/2 lbs.

# 6 screw	44 N 597	60	44 N 923	.59	44 N 924	3.56
# 8 screw	44 N 598	60	44 N 928	.66	44 N 929	3.90
#10 screw	44 N 599	60	44 N 933	.66	44 N 934	3.90



R Snap Hole Plugs. Fill hole size listed. 3 oz.; 1 1/4 lbs.; 10 lbs.

Size	32¢ container		144 Lot Pkg.		1000 Lot Pkg.	
	No.	Quan.	No.	NET	No.	NET
1/8"	44 N 659	8	44 N 286	2.79	.....	.....
3/16"	44 N 679	8	44 N 289	3.74	.....	.....
1/4"	44 N 689	6	44 N 292	3.97	44 N 293	23.81
5/16"	44 N 699	5	44 N 295	4.70	44 N 296	28.22
3/8"	44 N 707	15	44 N 298	6.47	44 N 299	38.80

S Screen-Vent Snap Hole Plug. Shpg. wts.: 3 oz.; 1 1/4 lbs.; 10 lbs.

1"	44 N 396	1	44 N 394	27.93	44 N 395	167.60
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T Cable Clamps. Fit cable sizes below. Wts.: 3 oz.; 12 oz.; 5 lbs.

1/8"-3/8"	44 N 708	25	44 N 333	1.28	44 N 334	7.68
3/8"-1/2"	44 N 713	20	44 N 336	1.46	44 N 337	8.71
1/2"-3/4"	44 N 732	15	44 N 339	2.72	44 N 342	16.32
3/4"-1"	44 N 733	15	44 N 344	1.66	44 N 345	9.93

W Rubber Feet. Take screws, nails, etc. For wood or metal cabinets. Shpg. wts.: 3 oz.; 9 oz.; 4 1/2 lbs.

3/8" O.D.	44 N 763	8	44 N 154	1.20	44 N 155	7.15
1" O.D.	44 N 764	6	44 N 157	2.90	44 N 158	17.35

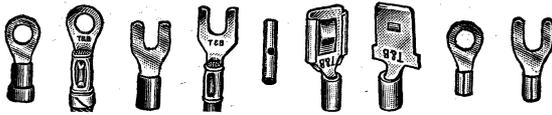
All items are precision-made from high-quality materials to insure dependable service. All are assortments. Av. shpg. wt., 4 oz.

Stock No.	Description	Quan.*
43 N 319	Terminal & solder lugs.	
	Tinned brass, #6-10.	30
43 N 342	Metal spacers. For #6 & 8 screws.	12
43 N 343	Insulated spacers for #6 & 8 screws.	12
43 N 321	Twin lead wiring nails.	35
43 N 320	Cotter & hairpins.	50
43 N 323	Cable clamps w/mounting hole for 1/4 to 3/8" dia. cables.	20
43 N 310	Large size expansion springs.	10
43 N 311	Small size expansion springs.	10
43 N 327	Rubber feet w/wood screws.	8
43 N 337	Small-size dial drive springs.	10
43 N 358	Large & small dial drive springs.	8
43 N 325	Cord strain relief for POSJ type wire.	10
43 N 359	Radio knob springs.	18
43 N 344	Allen wrench set. 4 hex: for #4 to 10 set screws, #2-6 cap screws.	Set of 4
43 N 315	Rubber chassis mounts.	10
43 N 345	Spline wrenches for set screws to 1/4" & cap screws to No. 8.	Set of 4
43 N 314	Rubber grommets. For cables & metals to 1/4".	15
43 N 355	Standard thin dial cord.	10 ft.
43 N 336	Standard dial cord.	10 ft.

*Approximate quantities.
NET PER BOX.....32c

Quality Terminals—Installation Tools

TERMINALS FOR EVERY USE

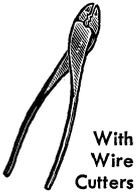


THOMAS AND BETTS STA-KON TERMINALS

Have a barrel section into which a conductor is staked, and either a ring or spade tongue type terminal connection. Provide quick and easy, permanent installations without damaging the conductor or its insulation. Allied can supply any type of Thomas & Betts terminals (including types not listed below) in 5000 quantity lots. Write our Industrial Division for prices. All Sta-Kon terminals and connectors are U.L. Approved. *With insulation grip. †Self-insulated, with insulation grip. ‡Insulated connectors. †Disconnects. 100 per pkg.

Stock No.	Fig.*	Mfr's No.	Type	Wire Size	Stud Size	Shpg. Wts.		NET PER PKG.	
						Per 100	Per 1000	1-9	10-Up
43N 756	H	A18-6	Ring	22-18	6	5 oz.	2½ lbs.		
43N 757	H	A18-10	Ring	22-18	10	5 oz.	2½ lbs.		
43N 758	H	B14-6	Ring	20-14	6	6 oz.	3 lbs.		
43N 759	H	B14-8	Ring	20-14	8	7 oz.	3½ lbs.	3.75	3.00
43N 760	H	B14-10	Ring	20-14	10	5 oz.	2½ lbs.		
43N 761	H	B14-14	Ring	20-14	¼	13 oz.	7½ lbs.		
43N 762	H	C10-6	Ring	16-10	6	9 oz.	4½ lbs.		
43N 763	H	C10-10	Ring	16-10	10	10 oz.	5½ lbs.	4.69	3.75
43N 764	H	C10-14	Ring	16-10	¼	13 oz.	7½ lbs.		
43N 765	B	B14-6G*	Ring	16-14	6	6 oz.	3 lbs.		
43N 766	B	B14-10G*	Ring	16-14	10	6 oz.	3 lbs.		
43N 767	J	A18-6F	Spade	22-18	6	5 oz.	2½ lbs.	3.75	3.00
43N 768	J	B14-10F	Spade	20-14	10	7 oz.	3½ lbs.		
43N 769	D	B14-6FG*	Spade	16-14	6	7 oz.	3½ lbs.		
43N 770	D	B14-10FG*	Spade	16-14	10	8 oz.	4 lbs.		
43N 771	A	RA18-6†	Ring	22-18	6	5 oz.	2½ lbs.		
43N 772	A	RA18-10†	Ring	22-18	10	5 oz.	2½ lbs.		
43N 773	A	RB14-6†	Ring	16-14	6	6 oz.	3 lbs.	5.00	4.00
43N 774	A	RB14-10†	Ring	16-14	10	6 oz.	3 lbs.		
43N 775	C	RA18-6F†	Spade	22-18	6	7 oz.	3½ lbs.		
43N 776	C	RA18-10F†	Spade	22-18	10	7 oz.	3½ lbs.		
43N 777	C	RB14-6F†	Spade	16-14	6	8 oz.	4 lbs.	5.00	4.00
43N 778	C	RB14-10F†	Spade	16-14	10	8 oz.	4 lbs.		
43N 779	C	RB14-10F†	Spade	16-14	10	9 oz.	4½ lbs.		
43N 780	E	2R1818‡	.....	22-18	.....	7 oz.	3½ lbs.	6.25	5.00
43N 781	E	2R1818‡	.....	16-14	.....	7 oz.	3½ lbs.	6.25	5.00
43N 782	F	B14-250F†	.....	20-14	.....	6 oz.	3 lbs.	3.75	3.00
43N 783	F	B14-250F†	.....	20-14	.....	6 oz.	3 lbs.	3.75	3.00

THOMAS AND BETTS WT111M INSTALLING TOOL



A high-quality wide-range plier tool, with rugged wire cutters. For use with series A, B, and C insulated terminals listed above; also with Thomas & Betts series AB and PT terminals. Makes electrical wiring, repair and assembly jobs easier. Engineered to provide smooth action and long life. Precision-fit joints provide free, positive action. Accurate cutting and gripping are assured by careful alignment of jaws and cutting edges. Handles are shaped to provide completely comfortable grip and balance. Shpg. wt., 1 lb. 43 N 784. NET.....3.00

With Wire Cutters

TYPE WT152 HAND TOOL

Pliers for easy installation of RA, RB and RC series Sta-Kon terminals. Freely moving joints and careful alignment of jaws and cutting edges assure accurate cutting and gripping. Has comfortable handle-grip for minimum fatigue. Shpg. wt., 1 lb. 43 N 785. NET.....5.00

LYNN SOLDERLESS TERMINALS & TOOLS

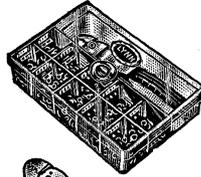
QUALITY SOLDERLESS TERMINALS

Use with Type 1902 crimping tool below, to make quick connections between terminal and wire. *Included in 2195 kit shown below. †¼" male tab. ‡Female tab socket. †¼" angle male tab. ‡Angle female tab socket. **¼" male tab on one end; takes ½" snap terminal on other end. ††Female tab socket on one end; takes ½" snap terminal on other end. Av. shpg. wt., per pkg. of 50, 4 oz. 50 per pkg.

Stock No.	Fig.	Mfr's No.	Type	Wire Size	Stud Size	NET PER PKG (50 PER PKG)			
						1	2-19	20-99	100-Up
43N 752	H	2300*	Ring	22-16	4-6				
43N 753	H	2301*	Ring	22-16	4-6				
43N 754	H	2302*	Ring	22-16	4-6	1.18	1.09	.98	.88
43N 755	H	2400*	Ring	16-14	8-10				
43N 789	H	2401*	Ring	16-14	4-6				
43N 790	H	2402*	Ring	16-14	8-10				
43N 791	H	2403	Ring	16-14	12-¼	1.47	1.35	1.22	1.11
43N 792	H	2502	Ring	12-10	12-¼	1.47	1.35	1.22	1.11
43N 793	J	2600*	Spade	22-16	4-6	1.05	.97	.87	.78
43N 794	J	2601*	Spade	16-14	4-6	1.18	1.09	.98	.88
43N 796	J	2602*	Spade	16-14	8-10	1.18	1.09	.98	.88
43N 729	J	2700	Spade	22-16	4-6	1.05	.97	.87	.78
43N 797	W	3202	½" Snap	18-14	.....	.91	.84	.76	.69
43N 798	K	2802	Flag	22-16	8-10	1.18	1.09	.98	.88
43N 799	K	2902	Flag	16-14	8-10	1.18	1.09	.98	.88
43N 717	L	3101	Butt	22-16	.....	.91	.84	.76	.69
43N 718	L	3102	Butt	16-14	.....	.91	.84	.76	.69
43N 719	L	3103	Butt	12-10	.....	1.18	1.09	.98	.88
43N 727	M	3300*	Hook	22-16	.....	1.05	.97	.87	.78
43N 730	G	3401	Tab†	18-14	.....	1.18	1.09	.98	.88
43N 731	F	3402	Tab‡	18-14	.....	1.18	1.09	.98	.88
43N 732	.....	3501	Tab†	18-14	.....	1.18	1.09	.98	.88
43N 733	.....	3502	Tab‡	18-14	.....	1.18	1.09	.98	.88
43N 734	N	3601	Adapter**	.....	.....	1.96	1.80	1.63	1.47
43N 735	P	3602	Adapter††	.....	.....	1.96	1.80	1.63	1.47
43N 736	R	3701	Adapter**	.....	.....	1.78	1.65	1.49	1.33
43N 737	S	3702	Adapter††	.....	.....	1.78	1.65	1.49	1.33

TYPE 2195 SERVICE KIT

Handy kit contains \$5.00 worth of solderless terminals in assorted sizes in addition to Type 1902 crimper-cutter tool described below. The wide selection of types and sizes permit making almost any type of plug connection in radio or TV work; includes "lightning spade" and hook-type terminals. Clear plastic container supplied with kit. ¾"x6½"x¾". Shpg. wt., 2 lbs. 44 N 479. NET.....8.77



TYPE 1902 CRIMPING TOOL

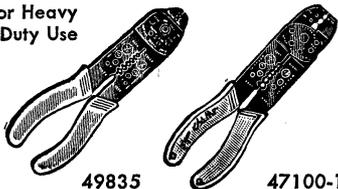
Crimping and bolt cutter tool designed for electricians, servicemen, etc. Neatly crimps solderless terminals; shears machine screws, nuts and bolts in sizes 4-40, 6-32, 8-32, 10-24, 10-32; strips insulation from #22, #20, #18, #16, #14, #12, and #10 AWG wire. Steel jaws with red plastic handles. Shpg. wt., 1 lb. 44 N 843. NET.....3.87



A-MP CRIMPING TOOLS AND SOLDERLESS TERMINALS

"SUPER CHAMP" CRIMPING TOOL

For Heavy Duty Use



49835

47100-1

Type 47100-1. Versatile hand tool for electricians, maintenance men, etc. Crimps insulated solderless terminals, shears machine screws, measures stud sizes, cuts and strips wire. Shears machine screws: 4-40, 6-32, 8-32, 10-32 and 10-24. Separate notches strip insulation from #18, #16, #14 and #12 AWG wire. Measures stud (machine screw) sizes: 4, 6, 8, 10, 12, ¼", ⅜" and ½". Designed for heavy-duty use—made of hardened tool steel, has insulated yellow plastic handles for a secure and comfortable grip. Shpg. wt., 1 lb. 45 N 321. NET.....4.95

Type 49835. Same as above, but for crimping non-insulated terminals. 44 N 453. NET.....3.95

TERMINAL KIT



Terminal kit containing an assortment of the 12 most popular terminal types for general wiring. 240 insulated, solderless terminals are supplied plus the heavy-duty "Super Champ" crimping and wiring tool described at left. Terminals and tool come in one handy, compact transparent plastic case which makes a handy storage or carrying box. Ideal for radio-TV and electrical servicemen, automobile repairmen, hobbyists, etc. Eliminates need for soldering—will save time and labor on many occasions. Compartmented plastic box makes it easy to select the proper terminal—also shows at a glance when it is time to order more. Assortment includes ring, spade-butt and nylon closed-end connectors. For all wire sizes from 10 to 22 and most-often used stud sizes. An invaluable outfit for general wiring. Box size, 9½"x6½"x2". Shpg. wt., 2 lbs. 45 N 322. NET.....17.95

GENERAL WIRING TERMINALS

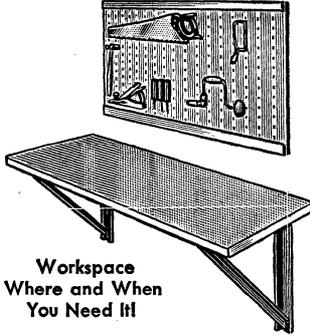
Eliminate soldering. Simple crimping operation provides extremely strong, neat, vibration-proof connection. Inside of connector ribbed for firm grip on wire. *Insulated terminals—plastic outer sleeves. Wire size, 14 to 16, except #16 to 22. Shpg. wt., 8 oz. 100 per pkg.

Stock No.	Fig.	Mfr's No.	Type	Stud Size	PER PKG.
45 N 301	A	34149*	Ring	8-10	5.34
45 N 302	A	34142**	Ring	4-6	5.34
45 N 303	L	34070**	Butt	.....	5.41
45 N 304	A	34158*	Ring	4-6	5.34
45 N 305	A	34161*	Ring	8-10	5.34
45 N 306	C	34165*	Spade	4-6	5.34
45 N 309	C	34167*	Spade	8-10	5.34
45 N 308	L	34071*	Butt	.....	6.41
45 N 323	C	34154**	Spade	5-6	5.34
45 N 310	H	33214†	Ring	8-10	3.73
45 N 311	H	34194†	Ring	4-6	3.73
45 N 312	E	31818†	Butt	.....	3.98
45 N 313	H	34197†	Ring	4-6	3.73
45 N 314	H	33217†	Ring	8-10	3.27
45 N 315	J	33477†	Spade	4-6	4.16
45 N 316	J	33219	Spade	8-10	4.16
45 N 317	T	31763	Knife	.....	7.21
45 N 319	W	34846	Shur-Plug	.....	2.03
45 N 320	.....	36840*	Recep.	.....	6.20

Workshop Aids, Plastic Stock

STURDI-BILT "DROPTOP" SET

Model DT 200TR. Here's an exceptionally valuable workshop aid—provides 1296 square inches of tool rack area plus swing-away work table. Work space when and where you need it—provides maximum utility for limited-space areas. Tool rack mounts flush against wall; solidly built work table folds conveniently back against wall when not in use! Tool rack panel can be easily removed from frame for cleaning or painting.



Workspace Where and When You Need It!

Accepts standard tool hooks to accommodate an entire large-size tool set in convenient, easy-to-reach form. Ideal for hanging wrenches, screw and nut drivers, etc. Other workshop tools in neat, orderly fashion. Massive work-table top measures 60x24x1 1/2" thick; constructed of kiln-dried lumber strips, side by side, bonded between layers of high-density wood and smooth, hard plastic. Rugged, yet smart in appearance. Can be mounted on any wood or masonry wall.

Complete "Droptop" Work Center includes folding table, tool rack (48x27"), brackets and hardware. Can be easily set-up in a few minutes. Attractive tan finish. Shpg. wt., 67 lbs.
46 NZ 929. Only \$2.70 Down. NET.....27.00

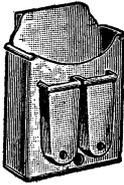
JIFFY TOOL RACK

Lightweight steel tool rack. Holds a large number of tools in a very small space. Uses only 2x12" of wall space to hold all your small tools within easy reach. Right-angle shape. Bottom half, for flush wall mounting, has 9 hooks for general utility use. Upper half of rack has 10 holes and 10 recesses. The holes provide convenient storage space for screwdrivers, files, inspection mirrors and other small tools. The recesses are useful for pliers, wrenches, shears, etc. Constructed of rigid, durable steel. Shpg. wt., 5 oz.
46 N 799. NET.....49c



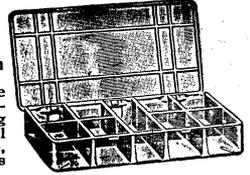
G-C 8943 "TUX" TOOL HOLSTER

A perfect accessory for servicemen, electricians, and repairmen. Excellent for service calls and antenna installations; the required tool is always available at your side. Attaches to belt by two metal loops. Has two narrow compartments and one full-size compartment. Plenty of room for securely holding most needed tools, such as wrenches, hex nut drivers, pliers, wire-cutter, tube puller, screwdrivers, alignment tools, file, etc. Deep enough to prevent tool-spillage. Made of tough, flexible polyethylene plastic. Holds its shape. Shpg. wt., 6 oz.
46 N 345. NET.....2.32



VLICHEK PLASTIC BOXES

- Ideal For Storing Small Parts
- Wide Selection of Popular Sizes
- Contents Visible For Quick Selection



Sturdy, clear-plastic, hinged-top storage boxes. Divided types are ideal for keeping parts separated. Excellent for storing resistors, capacitors, nuts, screws, as well as small household articles, fishing tackle, costume jewelry, etc. Type P250 has removable cover.

Type P250, 1—compartment. Size, 6 1/4x4x1 1/2". Wt., 6 oz.
44 N 362. NET.....38c

Type P221, 4—2 1/4x1 3/8" compartments. Size, 4 1/2x2 3/4x1". 4 oz.
44 N 363. NET.....22c

Type P212, 5—compartments. 4 are 1 1/2x2 3/8" plus 1 1/2x3 3/8" center compartment. Overall size, 7 1/8x3 3/4x1 3/8". Shpg. wt., 1/2 lb.
44 N 356. NET.....37c

Type P215, 5—1 3/8x3 1/2" compartments. Size, 7 1/8x3 3/4x1 3/8". 4 oz.
44 N 364. NET.....37c

Type P203, 6—1 1/4x4 1/8" compartments. Size, 8 3/8x4 1/2x1 3/8". 3/4 lb.
44 N 357. NET.....51c

Type P220, 6—1 1/2x1 3/8" compartments. Size, 4 5/8x3x1 3/8". 4 oz.
44 N 365. NET.....23c

Type P210, 9—compartments. 8 are 1 1/4x1 1/2". Center compartment, 1x3 3/8". Overall size, 7 1/8x3 3/4x1 3/8". Shpg. wt., 1/2 lb.
44 N 355. NET.....37c

Type P201, 12—compartments. Has 2x1 1/4" compartments; two 1 1/4x4"; six 1 1/4x1 1/4". Overall size, 8 3/8x4 1/2x1 3/8". Shpg. wt., 3/4 lb.
44 N 358. NET.....51c

Type P612, 12—compartments. Has 6—1 1/8x2"; 6—1 1/8x4 1/4". Overall, 11x6 1/4x1 3/8". Shpg. wt., 1 1/4 lbs.
44 N 354. NET.....1.22

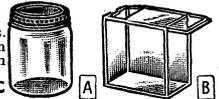
Type P200, 18—1 1/4" sq. compartments. Size, 8 3/8x4 1/2x1 3/8". 8 oz.
44 N 366. NET.....51c

Type P618, 18—1 1/8x2" compartments. 11x6 1/8x1 3/8". 1 1/4 lbs.
44 N 367. NET.....1.28

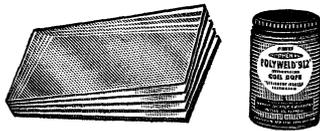
STORAGE CONTAINERS

A Glass Jar. Ideal storage for small parts. Metal screw cap protects contents from dust and moisture. Size, 2 1/2" high; 2" in diameter. Wt., 7 oz.
44 N 500, 12 or more, EA. 5c. EACH.....6c

B Plastic Container. Durable, clear-view plastic containers for small parts. Ideal for use on the radio-TV service bench for storing resistors, capacitors, screws, nuts, washers, and other frequently needed components. Clear plastic permits quick identification of parts. Smooth operating sliding covers keep out dust. Containers may be stacked or set side by side. Size, 2 1/2x1 1/2x2 1/2". Shpg. wt., each, 2 oz.
44 H 501, Pkg. of 12.....2.27. EACH.....21c



AMPHENOL POLYSTYRENE SHEET STOCK & CEMENT



Extremely low-loss, 4x8" polystyrene sheets. Excellent for use in AC, DC and RF applications including VHF, UHF and SHF. Perfect where safe, clear insulation is needed. High dielectric strength. Colorless; does not deteriorate under adverse climatic conditions. Retains original dimensions—does not stretch or warp. No moisture absorption. Also fine for dial and gauge glass use. Easy to cut and fit to any size. Can be drilled and tapped.

No.	Type	Size	Wt.	NET
71 H 738	19-0628	4x8x1 1/8"	3 oz.	20¢
71 H 739	19-0938	4x8x3/8"	4 oz.	24¢
71 H 746	19-1258	4x8x3/8"	5 oz.	37¢
71 H 749	19-1878	4x8x3/8"	6 oz.	46¢
71 H 748	19-2508	4x8x3/4"	8 oz.	50¢

POLYWELD "912" CEMENT

Type 53-912-2. Securely bonds or "welds" polystyrene sheets. Rapid drying. Ideal for coil coating where polystyrene forms are used. Has negligible loss factor. Extends useful life of cement. 2 oz. bottle. Shpg. wt., 3 oz.
43 N 139. NET.....35c

AMPHENOL CEMENT THINNER

Type 53-916-2T. For thinning Polyweld cement listed above. Does not change loss factor of cement. Rapid acting. Extends useful life of cement. 2 oz. bottle. Shpg. wt., 3 oz.
43 N 141. NET.....35c

POLYSTYRENE SHEETS, RODS AND TUBING

An excellent selection of high-grade polystyrene sheets, rods and tubing. Ideal for AC, DC, and RF applications as well as VHF, UHF and SHF. Rods and tubing are excellent material for making insulators or coil forms. Sheets may be used for shielding or dial and gauge glass.



All have extremely low-loss factor at ultra-high frequencies. Have high dielectric strength, excellent arc resistance and insulating properties. No moisture absorption. Highly stable under varying climatic conditions. Always retain original dimensions—will not stretch or warp. Easy to cut any size. May be sawed, drilled or tapped. Sheets are transparent. All tubing has satin finish except *clear; all rods are frosted except *clear.

POLYSTYRENE SHEETS

Stock No.	Size	Thickness	Shpg. Wt.	NET EA.		Stock No.	Size	Thickness	Shpg. Wt.	NET EA.	
				1-9	10-49					1-9	10-49
71 H 865	12x12"	1/8"	8 oz.	4.07	3.66	71 HX 870	12x24"	1/8"	1 lb.	7.64	6.88
71 H 866	12x12"	3/8"	10 oz.	4.70	4.23	71 HX 871	12x24"	3/8"	1 1/4 lbs.	8.97	8.07
71 H 867	12x12"	1/2"	12 oz.	5.39	4.85	71 HX 872	12x24"	1/2"	1 1/2 lbs.	10.39	9.35
71 H 868	12x12"	3/4"	1 lb.	7.01	6.31	71 HX 873	12x24"	3/4"	2 lbs.	12.89	11.60
71 H 869	12x12"	1"	1 1/2 lbs.	7.99	7.19	71 HX 874	12x24"	1"	3 lbs.	15.34	13.81

12' POLYSTYRENE RODS

Stock No.	Dia.	Shpg. Wt.	NET EACH		Stock No.	Dia.	Shpg. Wt.	NET EACH	
			1-9	10-49				1-9	10-49
71 H 875	1/8" +	2 oz.	.03	.02	71 H 880	1/2"	6 oz.	.47	.42
71 H 876	3/16"	3 oz.	.07	.06	71 H 881	3/8"	8 oz.	.71	.64
71 H 877	1/4"	5 oz.	.12	.11	71 H 882	1/2"	8 oz.	.98	.88
71 H 878	5/16"	6 oz.	.18	.16	71 H 883	3/4"	8 oz.	1.39	1.25
71 H 879	3/8"	6 oz.	.25	.22	71 H 884	1"	8 oz.	1.86	1.67

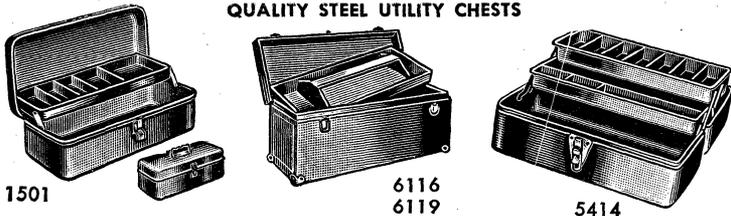
12' TUBING

Stock No.	O. D.	I. D.	Shpg. Wt.	NET EA.		Stock No.	O. D.	I. D.	Shpg. Wt.	NET EA.	
				1-9	10-49					1-9	10-49
71 H 885	1/4" +	1/8"	2 oz.	10¢	9¢	71 H 889	5/8"	3/8"	4 oz.	31¢	28¢
71 H 886	3/8"	1/4"	3 oz.	14¢	13¢	71 H 890	3/4"	5/8"	4 oz.	39¢	35¢
71 H 887	1/2"	1/2"	3 oz.	18¢	16¢	71 H 891	1"	7/8"	6 oz.	55¢	49¢
71 H 888	3/4"	3/8"	3 oz.	25¢	22¢						

Write for prices on larger quantities.

Tool Boxes—Parts Containers

QUALITY STEEL UTILITY CHESTS



1501

6116
6119

5414

HAMILTON UTILITY BOX

Model 1501. Sturdily constructed, drawn-metal tool and general-utility box. Extremely compact and easy to carry—fits anyplace. Indispensable for the radio and TV serviceman, kit builder, experimenter, mechanic and home craftsman. Also excellent for gardening, fishing tackle, or general purpose use.

Easily accommodates a soldering iron, screw-driver, pliers, wrenches, test leads, etc. Handy cantilever tray rises and slides aside when lid is raised. Assures easy access to stored articles in bottom of box. Tray has three compartments: 1—2 $\frac{1}{2}$ x6", 1—1 $\frac{1}{2}$ x6", 1—9 $\frac{1}{4}$ x6". Compartments are extremely handy for the storage of hardware and miscellaneous small parts, such as resistors, capacitors, screws, etc.

Case has full-drawn, seamless, rounded corners with a smooth operating, snap-type lock. Lock also has eye for padlock insertion if desired. Cover has positive latching action when closed—prevents accidental spilling of contents. Folding, fingertip handle is securely attached to cover. Entire construction of box assures extra strength and complete rigidity—ruggedly built to last for years. An excellent value at a remarkably low price. Handsomely finished in high-gloss green baked enamel. Overall size of box is 4 $\frac{1}{2}$ " high, 6 $\frac{1}{4}$ " wide, 14 $\frac{1}{2}$ " deep. Shpg. wt., 3 lbs.
86 NX 156. NET.....1.50

UNION "SUPER STEEL" TOOL CHESTS

Sturdy steel chest with removable tray. Has two heavy-duty drawbolts plus center padlock eye. Continuous hinge welded to cover and case. Heavy-duty steel handle. Blue, hard-baked enamel interior. Exterior has silver gray hammertone finish.

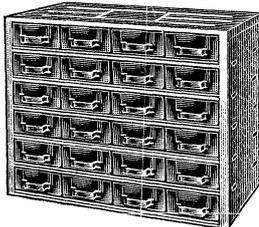
Type 6116. 16x7x7". Wt., 6 $\frac{1}{2}$ lbs.
86 NX 018. NET.....4.89
Type 6119. Same as above, but overall size is 19x7x7". Wt., 7 lbs.
86 NX 017. NET.....5.14

UNION WATERTIGHT TOOL BOX

Type 5414. Ruggedly constructed, watertight utility chest with two cantilever-mounted trays. Large tray capacity makes it ideal for storing tools or small parts. Upper tray is divided into seven equal compartments; lower tray contains one full length, one 2/3 length and two smaller compartments. Full-grip steel handle. Finished in green hard-baked enamel; green enamel interior. 7 $\frac{1}{4}$ " wide, 7" high and 14 $\frac{1}{4}$ " long. Shpg. wt., 5 lbs.
86 NX 045. NET.....3.16

Type 6419. Similar to above but longer. 9 compartments in upper tray; 6 in lower. Center key lock with bolt catches on each side. 19" long, 7 $\frac{1}{4}$ " wide, 7" high. Wt., 7 lbs.
86 NX 154. NET.....4.45

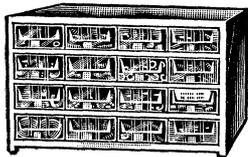
UNION "STACKMASTER" HEAVY STEEL CABINETS



Ruggedly constructed multi-drawer steel cabinets for general storage of small items. Ideal units for the home workshop, radio and TV service shops, factory, office, lab, etc. Feature convenient "lock tabs" that enable cabinets to be stacked in any direction—permits expansion of storage space as need arises. Cabinets can be quickly and easily detached from one another to provide any desired arrangement as additions are made. Cabinet frame is made of heavy-gauge welded steel. Clear, all-plastic drawers have built-in index cardholder and removable partitions. Special safety-stop on drawers prevent accidental spilling of small parts. All drawers are 5 $\frac{1}{2}$ " long, 2 $\frac{3}{4}$ " wide, 1 $\frac{1}{4}$ " deep. Cabinet frames are finished in handsome silver Dentone baked enamel.

Model U-24. 24-drawer cabinet. Size, 11x6x12 $\frac{1}{2}$ ". Shpg. wt. 9 lbs.
86 NX 763. NET.....6.22
Model U-12. 12-drawer cabinet. Size, 5 $\frac{1}{2}$ x6x12 $\frac{1}{2}$ ". Shpg. wt. 6 lbs.
86 N 784. NET.....3.70
Model U-18. 18-drawer cabinet. 11x6x12 $\frac{1}{2}$ ". 6 middle drawers, 5 $\frac{1}{2}$ " wide; 12 side drawers, 2 $\frac{3}{4}$ " wide (6 ea. side). 9 lbs.
86 NX 158. NET.....6.22

"HAZ-BIN" SMALL PARTS STORAGE CABINETS

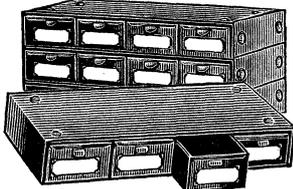


Beautifully Styled—Clear Plastic Drawers

Space-conserving cabinets for small parts and hardware storage. Excellent for the radio-TV serviceman, store, home workshop, etc. Clear plastic drawers, 1 $\frac{1}{2}$ x2 $\frac{1}{4}$ x5 $\frac{3}{8}$ ", are separated into three sections by removable dividers. Contents are clearly visible to permit easy identification. Index cards are supplied to fit slots on front of drawers. Cylindrical stub handles provide easy grip without blocking view of index cards. Backstop prevents accidental pull-out of drawers; contents cannot spill. Additional cabinets can be attached to back, side or top. Rubber feet prevent marring or scratching of tabletop, or shelf. Durable, welded all-steel cabinets; attractive, baked-on, silver-gray Hammertone finish.

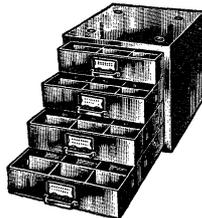
Stock No.	Mfr's Type	No. Draw.	H. W. D.	Wt. Lbs.	NET EACH
86 NX 047	J-16	16	8 $\frac{1}{2}$ x12 $\frac{1}{2}$ x6"	8	6.95
86 NX 143	J-20	20	10 $\frac{1}{2}$ x12 $\frac{1}{2}$ x6"	7	7.95
86 NX 144	J-24	24	12x12 $\frac{1}{2}$ x6"	10	9.95
86 NX 048	J-32	32	15 $\frac{1}{4}$ x12 $\frac{1}{2}$ x6"	13	12.95
86 NU 039	J-64	64	15 $\frac{1}{4}$ x25 $\frac{1}{2}$ x6"	25	24.95

"QUA-DROR" ALL STEEL STORAGE CABINET



Compact, four-drawer, three-way interlocking cabinets. The ideal solution for storage of small parts, tools, etc. Perfect for limited-space applications. Extremely handy for the radio and television serviceman, mechanic, hobbyist, home craftsman, etc. Each cabinet is a complete unit with four, individual, one-piece drawers. Cabinets can be stacked either vertically or horizontally and locked together. For stacking on workbench or table. Frames have countersunk locking devices on top and both ends. Each drawer is complete with metal snap-in separators for up to four individual compartments. Separators will not shift or slide—each is completely rigid. Drawers have folded, reinforced corners with strong tubular and folded sides. Made of rugged, one-piece, steel frame—will not warp or bend even if dropped. Each has safety-stop to prevent accidental spilling of parts—drawers cannot fall out. Have easily replaced, identifying label. Individual drawer size, HWD, 1 $\frac{1}{2}$ x2 $\frac{3}{4}$ x5 $\frac{3}{8}$ ". Cabinet size, HWD, 1 $\frac{1}{4}$ x11 $\frac{1}{2}$ x6". Handsomely finished in attractive, neutral gray. Shpg. wt. 1 $\frac{1}{2}$ lbs.
86 N 781. NET.....1.42

UNION 410 4-DRAWER STEEL CHEST

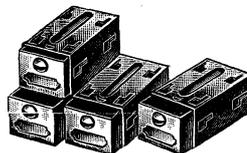


Sturdy all-steel chest for keeping often-used parts within handy reach. Can be used for storing all types of radio and TV hardware or small parts. Excellent for the home workshop, repair-shop, hobbyist, experimenter, etc. Has four easy-slide drawers, each 2x9x11 $\frac{1}{2}$ ".

Each drawer has removable dividers—enough supplied to make anywhere from 2 to 12 compartments per drawer. Drawers also have label holders for quick, easy identification of contents.

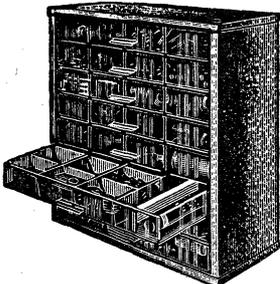
Safety drawer-stop prevents contents of drawers from being accidentally spilled. Cabinet and drawers are constructed of heavy, non-warp steel. Cabinets can easily be stacked for greater storage area—indentations on cabinet hold feet of cabinet above—prevent slipping or falling of stacked units—use on work bench, table, etc. Each drawer has convenient, sturdy pull-out handle. Attractively finished in durable, silver-gray finish. Overall size, steel chest, 10x10x11 $\frac{1}{2}$ ". Shpg. wt. 10 $\frac{1}{2}$ lbs.
86 NX 019. NET.....4.97

DIXIE INTERLOCKING DRAWERS



Small steel trays for storage of all types of radio-TV hardware and small parts. May be used separately or ganged together to form space-saving cabinets. Each unit interlocks with others at top, sides and bottom. Drawers may be assembled to fit irregularly shaped spaces unsuited to other cabinets or arranged for best utilization of available space. Each unit measures 2 $\frac{1}{4}$ x2 $\frac{1}{4}$ x5". Label holders make it easy to identify contents. Wt., 10 oz.
86 N 023. NET EACH.....42c
10 or More, EACH.....38c
Dividers. For use with Dixie drawers, above. Shpg. wt., per pkg., 4 oz.
86 N 179. Pkg. of 3.....10c

AKRO-MILS "E-Z FIND FULL-VUE" CABINETS



Extremely convenient cabinets for storing small parts. Drawers are shock-absorbing, crystal-clear Styrene, 1 $\frac{1}{2}$ x2 $\frac{1}{4}$ x5 $\frac{3}{8}$ ". Each drawer is divided into 4 compartments—can be divided further with handy removable dividers supplied. Smooth-operating drawer pulls out with full-grip, centered handle. Safety catch prevents drawer spillage. Cabinet is of double-wall, heavy-gauge steel. Individual drawer guides give extra cabinet strength. Prevent jamming or sticking. All corners are completely rounded. Cabinet will stand on bench, stack together or hang on wall. 4 ball-feet are stamped into each cabinet base with matching depressions in top. Perfect for radio-TV service shop, home workshop, hardware stores, etc. Attractive baked-on gray enamel finish.

No.	Type	Drawers	H. W. D.	Lbs.	NET
86 NX 759	V-12	12	6x12 $\frac{1}{2}$ x6"	6	3.98
86 NX 767	V-24	24	10 $\frac{1}{2}$ x12 $\frac{1}{2}$ x6"	9	6.98
86 NX 773	V-32	32	14x12 $\frac{1}{2}$ x6"	12	8.98

Steel Cabinets—Stands—Trucks

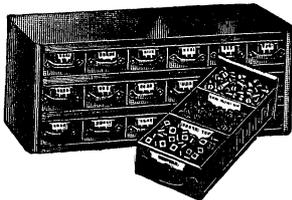
EQUIPTO METAL PRODUCTS

GENERAL PURPOSE STORAGE CABINETS

No. 11. 18-Drawer Cabinet.

Ideal for storing all kinds of small parts in easily accessible order. Each drawer is equipped with two instantly adjustable or removable cross dividers which may be set at any 1" interval of drawer length. Drawers have large convenient handles. Will not stick or jam. Instant-visibility label holders on drawers and dividers. Heavy-duty all-steel frame. Olive-green finish. Drawer size, 11x3 $\frac{3}{4}$ x3 $\frac{1}{2}$ ". Overall size, 34" wide, 13 $\frac{3}{4}$ " high, and 12" deep. Units fit on 12" shelf and may be stacked for greater storage space. Shpg. wt., 62 lbs.

86 NZ 011. NET.....27.90



No. 22. 18-Drawer Cabinet. As above, except 18" deep, and with 17x3 $\frac{3}{4}$ x3 $\frac{1}{2}$ " drawers. Shpg. wt., 95 lbs.

86 NZ 099. NET.....37.90

Type 8711 Lengthwise Divider. For No. 8505 drawer, used in No. 8 or No. 11 cabinets. Length, 11". Shpg. wt., 9 oz. 5 per pkg.

86 N 871. PER PKG.....50c

Type 8720 Cross Divider. For drawers of No. 11 or No. 22 cabinet listed above. Shpg. wt., 6 oz. 5 per pkg.

86 N 872. PER PKG.....50c

No. 8. 8-Drawer Cabinet.

General-purpose storage cabinet. Excellent for storing small parts, hardware, tools, supplies, merchandise, etc., in workshops, stores, offices, or anywhere that an attractive, durable storage rack is desired. An ideal companion for 18-drawer cabinet to left. Parts with loose wire ends are kept completely safe from accidental damage. Especially suited for radio-TV servicemen. Heavy-duty, welded steel frame holds 8 drawers on 2 levels. Each drawer has 2 cross dividers, adjustable on 1" centers, making a total of 24 compartments. Smooth-operating drawers are made of heavy steel—will not stick or jam together. Have full-size handles and slot holders for label cards. Durable baked olive-green enamel finish. Drawer size, 3 $\frac{1}{2}$ " high, 5 $\frac{1}{2}$ " wide and 11" long. Cabinet size, 10" high, 25 $\frac{1}{2}$ " wide and 12" deep. May be placed on shelf or stacked. Shpg. wt., 33 lbs.

86 NU 012. NET.....15.95



Type 8505 Drawer. Same type drawer as in cabinet above. Popular for use as parts trays on open shelving. With handle. Less dividers (below). Shpg. wt., 2 $\frac{1}{2}$ lbs.

86 N 869. NET.....90c

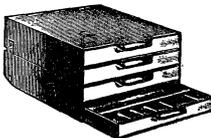
Type 8720 Cross Dividers. For type 8505 drawer above. Fit grooves deep-pressed into drawer sides. Slant top for easy labelling. Shpg. wt., 6 oz. 5 per package

86 N 872. PER PKG.....50c

"LITTLE GEM" AND COMBINATION CABINETS

"Little Gem" Cabinets.

For small parts. Excellent for single use—lock firmly together when stacked. Large built-in handle. Drawer stop prevents accidental spilling. Dividers instantly adjustable on 1 $\frac{1}{2}$ " centers. Fit drawer bottom tightly—no creeping of parts under dividers. 12 compartments per drawer—up to 28 with extra dividers. 1 $\frac{1}{2}$ x11" label holder on front of drawer. 3 $\frac{1}{2}$ x11" label holder on each compartment. Olive green baked enamel finish. Size of each drawer: 11" long 11" wide, and 1 $\frac{1}{2}$ " high.



No. 1. 2-Drawer Cabinet. With dividers providing for 24 compartments. Size: 3 $\frac{1}{2}$ x11x11". Shpg. wt., 7 lbs.

86 NX 065. NET.....6.95

No. 2. 4-Drawer Cabinet. With dividers for 48 compartments. Size: 6 $\frac{1}{2}$ x11x11". Shpg. wt., 15 lbs.

86 NX 066. NET.....13.90

No. 3. 6-Drawer Cabinet. 72 compartments. Safe storage for thousands of parts. Size: 9 $\frac{1}{2}$ x11x11". Shpg. wt., 23 lbs.

86 NU 067. NET.....20.85

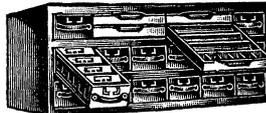
No. 8730. Extra Drawer Dividers. Can be added to each drawer to provide up to 28 compartments per drawer. Easily adjustable. Size: 1 $\frac{1}{2}$ x3 $\frac{3}{4}$ x1 $\frac{1}{2}$ ". Shpg. wt., 1/4 lb. each. 5 per pkg.

86 N 068. PER PKG.....50c

No. 12. Combination Cabinet.

For small and medium-sized parts. Cabinet combines the features of Equipto Standard Drawer Units with the safety and convenience for tiny parts storage of "Little Gem" Drawers at right. Label holders on each drawer for quick identification of parts. Includes 14 standard drawers with 3 compartments each and 4 "Little Gem" drawers with 12 compartments each. Size: 34x13 $\frac{1}{4}$ x11 $\frac{1}{2}$ ". Olive-green finish. Shpg. wt., 68 lbs.

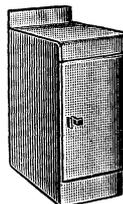
86 NX 096. NET.....39.30



BENCH AND CABINET COMBINATION

No. 233. All-steel combination workbench and storage cabinet for limited space applications. A compact "workshop" that is ideal for home, shop, or laboratory. Work surface area is 28x15". Raised rail at rear of work surface prevents work or tools from dropping behind cabinet. Storage cabinet is equipped with a removable shelf. Door is reinforced with steel box frame around all four sides. Smooth operating hinges are tamper-proof while door is closed. Door is equipped with an easy-operating latch and a heavy-duty tamper-proof hatch for padlocking if desired. Size, 34" high, 15" wide, and 28" deep. Olive-green finish. Shpg. wt., 60 lbs.

86 NZ 157. NET.....42.30



STEEL STANDS AND TRUCKS

STURDY STEEL TRUCKS

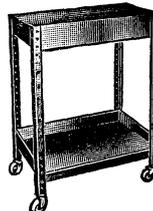
Stock handling carts for a wide variety of jobs. Heavy steel construction with round beaded edges for strength and rigidity. Easy rolling, 5" diameter solid rubber-tired wheels. Wheels are stationary in front, swivel in rear. Designed for use in narrow aisles between rows of shelving or any general trucking use. Durable olive green baked enamel finish. Top tray may be inverted to make flat surface. Trays are 4" deep. Will safely handle loads up to 600 lbs. Paper-carrying shelf (86 N 093) listed in table below, fastens to push bar.



No.	Type	Description	Wt., Lbs.	NET
86 NZ 090	150	36" high, 24" wide, 36" long	70	39.90
86 NZ 092	145	36" high, 16" wide, 30" long	60	29.90
86 N 093	146	Paper-carrying shelf; 8 $\frac{1}{2}$ x11"	5	2.50

CHASSIS AND TEST UNIT STANDS

Convenient stands for radio and television chassis, industrial electronic equipment, and test instruments. Excellent for use in service shops, labs and factories. Ideal for moving chassis to service bench. Also excellent for bringing test instruments to industrial equipment. Unusually rugged construction; without constant use and maximum weight loads. Can be used in narrow aisles. Convenient bottom shelf provides handy storage space for small tools, extension cords and other accessories. Heavy steel with olive-green enamel finish. Solid rubber wheels, 2 $\frac{1}{2}$ " diameter. Size, 18" wide, 24" in length. Height: With wheels, 34"; without wheels, 31".

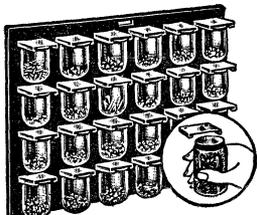


No.	Type	Description	Wt., Lbs.	NET
86 NZ 087	710	With wheels	55	15.13
86 NZ 088	711	With wheels, wood top.	57	16.63

VIS-A-PART BOARDS

Stores Small Parts

Convenient wallboard for storage of small parts. Keeps parts in sight for immediate selection. Consists of attractive masonite board with up to 24 glass storage jars. Jars easily slide in or out of holder clips with one simple motion. Parts are always within easy reach. Masonite board is pre-punched to permit hanging on any wall. Perfect for radio-TV service shops, machine shops or home workshops.



12-Jar Type. Size, 18x8 $\frac{3}{4}$ ". Shpg. wt., 4 $\frac{1}{2}$ lbs.

86 NZ 246. List, \$3.25. NET.....1.91

24-Jar Type. Size, 18x18". Shpg. wt., 9 lbs.

86 NZ 245. List \$6.00. NET.....3.53

Replacement Jars. For above. Shpg. wt., 2 oz.

46 N 207. NET EACH.....8c

Holder Clips. Same as used in boards above. Wt. per pkg., 2 oz.

46 N 204. Pkg. or 2, Per Pkg.....20c

PIN-UP BOARD

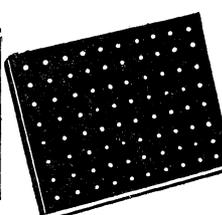
Keeps Tools or Parts Handy and in Sight

Model 102. Four separate squares of perforated hardboard, each 18x24". Provide 12 square feet of storage space. A convenient and attractive way to store tools and a great variety of other small accessories. Pin-up rack includes 62 specially designed fixtures for hanging saws, hammers, planes, etc. Includes four, 4-oz. nail and screw jars, two shelf brackets, screwdriver holder. Hardboard is of 1/4" thickness—forms an unusually tough and durable surface. Complete with hooks, mtg. screws, spacers and instructions. Shpg. wt., 15 lbs.

86 NX 178. List, \$7.98. NET.....5.87

Model 102W Workshop Unit. Contains all tool hooks, rack, brackets, jars, mounting screws and spacers listed in unit above; but less perforated hardboards. 62 fixtures plus mounting hardware. Wt., 3 lbs.

50 N 127. List, \$3.85. NET.....2.83



General Cement Paints & Chemicals

FAMOUS, HIGH-QUALITY CHEMICALS, PAINTS & KITS



No. 43 "Pli-O-Bond" Cement. Thermoplastic cement. Bonds all materials.
 43 N 210. 2 fl. oz. Wt., 6 oz. NET.....44
 43 N 211. 8 fl. oz. Wt., 1/4 lbs. NET.....1.12
 43 N 450. 1 gal. Wt., 10 lbs. NET.....9.70

No. 31 Radio Service Solvent. Cement thinner for removing old speaker cement, etc.
 43 N 451. 2 fl. oz. Wt., 5 oz. NET.....44
 43 N 157. 4 fl. oz. Wt., 1/2 lb. NET.....65
 43 N 163. 8 fl. oz. Wt., 1/4 lbs. NET.....82
 43 N 452. 1 gal. Wt., 10 lbs. NET.....4.82

No. 8460 "De-Ox-Id" Kit. Safety cleans and prevents oxidation on circuit contacts. With needle injector for easy application. 2 oz. bottle. Shpg. wt., 1/2 lb.
 43 N 453. NET.....1.15

No. 19. "De-Ox-Id" Only. Less applicator.
 43 N 127. 1 fl. oz. Wt., 4 oz. NET.....65
 43 N 128. 2 fl. oz. Wt., 6 oz. NET.....94

No. 47 TV High Voltage Corona Dope. Prevents corona shorts. Air-drying.
 43 N 145. 2 fl. oz. Wt., 6 oz. NET.....71
 43 N 454. 8 fl. oz. Wt., 1/4 lb. NET.....2.29

No. 50 "Red-X" TV High Voltage Corona Dope. Red corona dope. 2 fl. oz. Wt., 6 oz.
 43 N 455. NET.....71

No. 30 Service Cement. Vibration-proof cement for radio and speaker repairs.
 43 N 456. 2 fl. oz. Wt., 6 oz. NET.....44
 43 N 166. 8 fl. oz. Wt., 1/4 lbs. NET.....1.12
 43 N 156. 16 fl. oz. Wt., 2/4 lbs. NET.....2.15
 43 N 457. 1 gal. Wt., 10 lbs. NET.....7.61

No. 32 Bakelite Cement. For bonding phenolic to phenolic or any other material.
 43 N 296. 2 fl. oz. Wt., 6 oz. NET.....44
 43 N 458. 8 fl. oz. Wt., 1/4 lbs. NET.....1.41
 43 N 459. 1 gal. Wt., 10 lbs. NET.....17.64

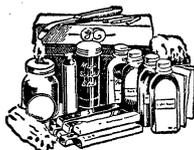
NO. 60 "RUF-KOAT" VARNISH



Air-drying wrinkle varnish for amplifiers, test equipment, chassis, etc. Gives a professional-looking appearance—same type as used by original manufacturers. Can be air-dried or baked.

Black	Brown	Gray	Size	Lbs.	NET
43 N 480	43 N 481	43 N 482	4 fl. oz.	3/4	.82
43 N 483	43 N 484	43 N 485	16 fl. oz.	2 3/4	2.20
43 N 486	43 N 487	43 N 488	32 fl. oz.	6	3.23
	43 N 489	43 N 490	1 gal.	10	12.49

No. 60-X "Ruf-Koat" Undercoat. For use when applying "Ruf-Koat" to porous or previously-finished surfaces.
 43 N 491. 16 fl. oz. Wt., 2 1/4 lbs. NET. 2.32
 43 N 492. 1 gal. Wt., 10 lbs. NET.....12.88

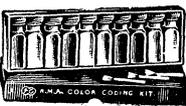


CABINET REPAIR KIT

A Type 901. Convenient, practical cabinet repair kit. Includes everything needed for turning out highly professional cabinet refinishing jobs. Use it for repairing dents or scratches on wood, plastic, bakelite or metal, etc. Consists of an assortment of 10 shades of shellac sticks, bottles of light and dark oil stain, metal shading varnish, polish, "Magic Scratch Remover", alcohol lamp, alcohol, spatula, touch-up brushes, steel wool, sandpaper and wiping cloth. In convenient metal storage box. With complete, easy-to-follow instructions. Shpg. wt., 3 lbs.
 43 N 115. List, \$8.50. NET.....5.00

EIA (RTMA) COLOR-CODING KIT

B Type 677. Complete kit of all the standard EIA colors: black, brown, red, orange, yellow, green, blue, purple, gray and white. Shpg. wt., 1 1/2 lbs.
 43 N 112. List, \$2.15. NET.....1.26



LUMINOUS "LITE-KOAT" KIT

C Type 184-0. A long-life non-poisonous luminous coating that emits light in the dark. Coating absorbs light in daytime and glows in dark. Shpg. wt., 2 1/4 lbs.
 43 N 111. List, \$3.40. NET.....3.18

"DIAL-LITE" COLORING KIT

D Type 66-5. Long-lasting bright colors for coloring bulbs. Instant drying. Colors: red, green, blue, amber and solvent. Bulbs may be colored by dipping. Shpg. wt., 4 oz.
 43 N 110. List, \$1.40. NET.....82c

SCRATCH STICKS

For repairing scratches on wood. Wt., 5 oz.
 43 N 113. Type 598—Mahogany.
 43 N 368. Type 909—Walnut.
 43 N 369. Type 909-I. Oak.
 List, 75¢. NET EACH.....44c

NEW 8667 "ZERO-MIST" SPRAY



Cooling spray for instant isolation of defective, intermittent circuit components caused by temperature changes. Enables user to check electronic components in operation without removal from the circuit. When operating temperature goes up, defective component stops working, thus causing circuit to go out of operation. To find defective component, simply spray each component with "Zero-Mist". It instantly cools faulty component to former temperature, restoring it to operation. Thus, when circuit begins to operate again, last component sprayed is the bad one. Immediately pinpoints faulty parts and cold joints. In 16 oz. can. Shpg. wt., 1 1/2 lbs.
 50 N 099. NET.....1.91



"SPRA-KOAT" PAINTS

Wrinkle Finish. Air drying wrinkle varnish. For hobbyists, servicemen, etc. Provides finish comparable to professional oven baked jobs. Perfect for chassis, panels and racks. Makes composition board and bakelite panels appear as wrinkle finish steel panels. Available in black or gray. Contents, 16 oz. In convenient, ready to use, hand-size can. Shpg. wt., 1/4 lbs.

43 N 028. Type 60-12. Black.
 43 N 029. Type 60-13. Gray.
 NET EACH.....1.99

Telephone Black and Gray. A satin-finish enamel. Telephone black is perfect for power control and meter panels. Telephone gray gives professional appearance to test equipment, etc. Dries quickly after spraying. Provides moisture resistance. For wood or metal. Contents, 16 oz. Shpg. wt., 1/4 lbs.
 43 N 033. Type 62-12. Black.
 43 N 034. Type 62-13. Gray.
 NET EACH.....1.99

Hammer Finish. For applying professional hammer finish to panels, racks, chassis and instrument cases. Protects metal from moisture. Perfect for refinishing scratched and scarred metal surfaces. Air-dries quickly. Contents, 16 oz. Shpg. wt., 1/4 lbs.
 43 N 036. 84¢.
 43 N 037. 83-12. Brown. NET.....1.99
 43 N 037. 85-12. Silver. EACH.....1.99

"SPRA-KLEEN" CONTACT CLEANER



Type 8666. Efficient cleaner for electrical contacts—eliminates noise due to dust, dirt and corrosion. No need to dismantle chassis—cleaner is simply sprayed on contacts or control and mechanism is worked a few times. Spray cleaner on contacts, contacts, relays, switches and other sliding contact devices. In handy 6 oz. aerosol spray can. Shpg. wt., 10 oz.
 43 N 025. NET.....88c



PRINTED CIRCUIT PAINT

Type 21-2. This is the same pure silver compound used by manufacturers in printed circuit designs. Use it to repair all printed circuits and to touch up circuits around eyelets, rivets, and other parts. Handy for servicemen, experimenters and engineers. Comes with handy brush-in-cap. Shpg. wt., 4 oz.
 43 N 159. List, \$7.75. NET.....4.56



SILICONE RESIN SPRAY

Type 14-6. Use this clear, silicone resin after repairing or replacing parts in printed circuits. Forms a protective coating which prevents shorts and arcing. Insulates, waterproofs and provides barrier against dust. Application is simple—pressing a button at top of can releases a spray. Used by manufacturers to assure dependable performance of printed circuits. Dries rapidly and requires no baking. Spray can. Contents wt., 10 oz.
 43 N 027. List, \$3.25. NET.....2.39

CONTROL GUN

Type 9280. Handy device for cleaning and lubricating volume controls. For use with Type 65-16 Control Kleener, listed below. 7 1/4 x 7/8. Shpg. wt., 8 oz.
 43 N 045. List, \$6.25. NET.....3.67

Type 9282. Control Gun Adapter. Use with Type 9280 Control Gun. For extra long shanks.
 43 N 062. List, 75¢. NET.....44¢

Type 9281. Control Gun Adapter. Converts gun to fit special size auto radio controls.
 43 N 063. List, 75¢. NET.....44¢



CONTROL KLEENER

Type 65-16. Highly effective lubricating and cleaning compound for use with Type 9280 Control Gun, above. Quickly restores controls to like-new condition. A "must" for every radio and TV serviceman. In 16-oz. bottle. Shpg. wt., 1 1/4 lbs.
 43 N 046. List, \$3.25. NET...2.39

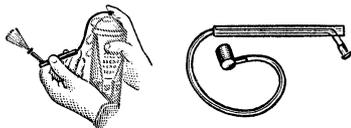
Chemicals and Paints

G-C SPRAY GUN TYPE SPRAY CAN HANDLE

Inexpensive spray can handle attaches to any spray can—converts the can into a spray gun! Pressing trigger of handle releases spray from can nozzle. Sturdy plastic pistol-grip handle snaps onto rim of can—holds can firmly in place. Handle can be attached or removed in seconds—is easily changed from one can to another. Readily adaptable to fit any standard spray can. Makes can more convenient to handle, less fatiguing to hold. Maintains an even spray and keeps hands clean. Useful in home, shop or office for applying paints, service chemicals, cleaners, special finishes, insecticides, etc. Will help servicemen, technicians and engineers—anyone who frequently uses a spray can. Shpg. wt., 3 oz. NET..... **88c**



G-C SPRAY CAN EXTENSION



Extremely useful attachment for spray cans—directs spray exactly where you want it. Ideal for cleaning controls and tuners without removing them from chassis. Speeds up bench work. One end of extension tubing fits over nozzle of can. Press release on can and spray squirts out nozzle at other end of tubing. All plastic—won't short. Fits all spray cans. Easily installed. Shpg. wt., 2 oz. NET..... **88c**

G-C RECORDING HEAD CLEANER

Specially prepared cleaning fluid for use on recording head of tape and wire recorders. The preparation dissolves the oxide accumulations which form, and which cause gradual loss of recording sensitivity. Cleaning recorder head at regular intervals assures peak quality performance and maximum recording sensitivity. 45 N 203, 1 fl. oz. Wt., 4 oz. NET **56c**
45 N 204, 2 fl. oz. Wt., 5 oz. NET **94c**



INSL-X TOOL DIP

A red liquid plastic that hardens into a tough, insulating coating when applied to handles of pliers, wrenches and other tools used in electrical work. Minimizes shock hazard Dielectric strength, 1500 v. per mil. Remove cap from container and dip handle of tool into liquid; may be dipped repeatedly if heavier coating is desired. Dries in 24 hours. Resists acids, alkalis or other corrosive compounds. Shpg. wt., 6 oz. can, 10 oz., 32 oz. can 2 1/4 lbs.



Stock No.	Contents	NET EACH	24 or More, EACH
42 N 400	6 oz.	.79	.71
42 N 401	32 oz.	2.83	2.55

INSL-X E-16 INSULATING SPRAY

Electrical insulation in handy spray can. Has non-clogging spray valve. Insulates parts, wiring, tools, etc. Has same insulating properties as above. Dielectric strength, 800-1200 volts per mil. 12-oz. can. Shpg. wt., 1 1/2 lbs.

Stock No.	Color	Contents	NET EACH	24 or more, EACH
42 N 402	Clear	12 oz.		
42 N 403	Aluminum	12 oz.	1.19	1.07
42 N 404	Black	12 oz.		

QUIETROLE CLEANER AND LUBRICANT

Radio-TV general purpose lubricant and cleaner. Eliminates noise from TV front-end tuners and volume-tone controls without removal from chassis. Non-inflammable and non-corrosive liquid; remains effective indefinitely. Also recommended for use on switches, pushbuttons, bearings, dial shafts, contacts, etc. An indispensable tool box item for the radio-TV serviceman. Shpg. wts.: 2-oz. bottle, 7 oz.; 4-oz. bottle, 14 oz. *With eye dropper. 43 N 102, *2-oz. bottle. NET..... **1.66**
43 N 103, 4-oz. bottle. NET..... **2.49**



KRYLON PLASTIC AND ENAMEL SPRAYS

CLEAR PLASTIC SPRAY

Can sprays a crystal-clear acrylic that dries in minutes to form a hard, waterproof coating. Coating has high dielectric strength—eliminates corona and arcing when sprayed on high voltage leads and connections. Ideal for use on high voltage coils and leads, in socket of high voltage rectifiers on transformers, ignition wiring, etc. Has a dielectric strength of 400 volts per mil. Spray on bell part of metal picture tubes to eliminate accumulation of dust. Use on radio-TV antennas to prevent rusting and pitting. Makes antennas salt-spray and chemical resistant. Use for weatherproofing outside lead-in connections. Assures added safety and better quality work on all installation and service jobs. Has many uses around shop and home. Comes in ready-to-use, 16-oz. size handy spray can. Shpg. wt., 1 1/2 lbs. NET..... **1.27**

ENAMEL SPRAYS

Highly attractive, non-fading, enamel sprays. Excellent for either interior or exterior use—provides a handsome, durable finish. Available in a wide variety of colors. Extremely quick drying—dries in 3 minutes. Non-clogging spray valve. 16-oz. can. Shpg. wt., 1 1/2 lbs.

No.	Color	No.	Color
43 N 134	Bright Silver	43 N 109	Bright Gold
43 N 064	Bright Copper	43 N 107	Hunter Green
43 N 059	Flat White	45 N 208	Surf Green
43 N 137	Glossy White	43 N 054	Chrome Yellow
45 N 206	Antique Ivory	45 N 209	Pastel Yellow
43 N 106	Flat Black	43 N 059	Regal Blue
43 N 138	Glossy Black	43 N 056	Cherry Red
43 053	Light Gray	43 N 044	O. Khaki
43 N 108	Machine Gray	43 N 043	Int'l Orange
45 N 207	Dove Gray		

NET EACH..... **1.17**

Saves time and money for radio-TV servicemen. Protects and preserves electronic equipment



Use for home "touch-up" or small area jobs

ZINC CHROMATE PRIMERS

Handy, "always ready" 16-oz. spray-on cans containing zinc chromate metal primers. Choice of yellow or green. Primer is rust inhibitive—will retard rusting action. Dries rapidly to form a strong bond with metal—resists peeling and cracking. Accepts finish coats readily. Ideal for prime coating metal antenna towers, masts, etc. Specially prepared—does not settle hard in can. Shpg. wt., 1 1/2 lbs. NET **45 N 210, Yellow Primer. NET 45 N 211, Green Primer. EACH..... 1.27**

WALSCO RADIO AND TV CHEMICALS

Carbon Tetrachloride, No. 111. Dissolves dirt and grease. Non-explosive and non-inflammable 4 oz. bottle. Shpg. wt., 12 oz. NET..... **53c**

Scratch Removing Polish (Dark), No. 231. For walnut, mahogany, etc. Removes scratches as it polishes. 4 oz. bottle. Wt., 12 oz. NET..... **38c**

Scratch Polish (Light), No. 232. As above, but light shade for maple, oak, etc. 4 oz. NET..... **38c**

Cap Needle Injector, No. 989. Surgical-grade needle with oil-resistant neoprene bulb—attached to bakelite bottle cap. Permits easy application of Contactene or Dial Oil to hand-switches, volume controls, etc., without disassembling. Shpg. wt., 2 oz. NET..... **44c**

Walscolub B, No. 22. A radio lubricant that prevents corrosion. Eliminates noise on switches, etc. 1 1/4 oz. tube. Wt., 5 oz. NET..... **53c**

Tunerlub, No. 26. Prevents noisy operation of TV tuning units, etc. Cleans and protects contacts from oxidation. 1 1/4 oz. tube. NET..... **53c**

"Lubriplate," No. 23. For phonograph motors, record changers. Superior to ordinary greases. 2 oz. tube. Shpg. wt., 6 oz. NET..... **53c**

No-Slip, No. 260. Greatly increases the friction of pulley cords and belts. Stops any slippage. 2 oz. bottle. Shpg. wt., 6 oz. NET..... **44c**

"NO NOISE" SOLUTION

Remarkably effective chemical formula for cleaning, lubricating and protecting TV front-end controls, switches, etc. In 6 oz. aerosol spray can. 2 oz. bottle is complete with dropper. Shpg. wts., 6-oz. can, 10-oz., 2-oz. bottle, 6 oz. NET..... **2.20**
43 N 142, 6 oz. NET..... **2.20**
43 N 143, 2 oz. NET..... **98c**



MERIX ANTI-STATIC SOLUTION

Prevents accumulation of static charges on smooth-surfaced substances such as plastics, metals, records, recording discs, etc. Treated surface becomes static-free and no longer attracts dust or lint. Removes static caused crackling noise on all types of records. Single bottle treats approximately 400 records. Non-inflammable. Can be safely used on face of TV tube. 4 oz. plastic bottle. Shpg. wt., 8 oz. NET..... **69c**



Radio Dial Oil, No. 27. A light-bodied lubricating oil for all electronic and electrical applications. Free of corrosive acids. Prevents rusting. 2 oz. bottle. Shpg. wt., 6 oz. NET..... **35c**

Polystyrene Cement, No. 57. For bonding Polystyrene parts, coating coils. Brush-in-cap. 4 oz. bottle. Shpg. wt., 12 oz. NET..... **71c**

Super Polish, No. 230. Removes old polish, grease or dirt from cabinets. Forms hard, high-gloss film. 8-oz. bottle. Wt., 1 1/4 lbs. NET..... **59c**

Insulating Varnish, No. 190. Fast drying; for coils, transformers, solenoids, motors, etc. 2 oz. bottle. Shpg. wt., 6 oz. NET..... **50c**

Plastic Cement, No. 40. Repairs plastic knobs and cabinets. Also cements metal, glass. Brush-in-cap. 2-oz. bottle. Wt., 6 oz. NET..... **44c**

RAPID "BRUSHPLATER"

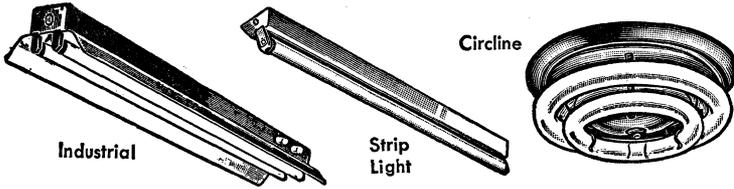
For quick, easy electroplating of small metal items such as hardware, trim, metal knobs, etc. Plating process is exceedingly simple—just make a few electrical connections and brush surface to be plated with metal compound. Includes 1 oz. metal cleaner, 1 oz. metal polish, plating compound 5/8" brush wires and clips, and polishing stick. Requires 2 or 3 No. 6, 1 1/2-volt cells (see page 424). Shpg. wt., 1 lb.



Stock No.	Mfr's Type	Plating Compound	NET EACH
43 N 080	200	Nickel	
43 N 081	202	Cadmium	
43 N 082	204	Copper	
43 N 083	205	Brass	
43 N 084	206	Silver	2.66
43 N 085	207	24 K Gold	4.61

Fluorescent Fixtures—Lanterns

MITCHELL FLUORESCENT FIXTURES



STANDARD INDUSTRIAL FIXTURE

Model 2098. 48" Standard Fixture. Uses two 48" Type T-12, 40-watt fluorescent lamps. High-gloss gray enamel for easy cleaning and maximum light reflection. Power factor corrected to reduce inductive effects. Supplied with brackets for hanging from ceiling and knock-outs to permit flush or stem mounting. Fixtures may be hung on chains, flush-mounted separately, or mounted end-to-end in a continuous row. Starters located on side for easy replacement without removing lamps or reflector. 48 1/2 x 11 1/2 x 5 9/16". With reflector, starters and ballasts. Less lamps and chains. U.L. Approved. For 105-125 volts, 60 cycles AC. Shpg. wt., 17 lbs.
91 RU 260. NET EACH..... 9.43
3 or More, EACH..... 8.70

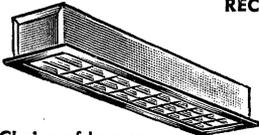
INDUSTRIAL RAPID-START FIXTURE

Model 2098RS. As above, but rapid-start type. For 105-125 v., 60 cycle AC. Wt., 17 lbs.
91 RU 315. NET EACH..... 11.18
3 or More, EACH..... 10.32

CIRCLINE FLUORESCENT FIXTURES

Model 665C. Low-cost, single-lamp, chrome-plated fixture with "instant-start" feature. Provides clear, glareless illumination—equivalent in light produced to a 100-watt incandescent bulb. An excellent lighting fixture for use in average-size kitchens, basement work areas, small offices, dens, etc. Handsome chrome finish complements any room. Lamp is held securely in place by tempered, spring-steel clips. With 12" diameter, 32-watt Circline lamp. U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 9 lbs.
91 RX 279. NET EACH..... 8.26
3 or More, EACH..... 7.51

RECESSED FLUORESCENT BOXES



Choice of Louver or Ribbed Glass Styles

Stock No.	Type	Style	Wt., lbs.	NET EA.	3-Up, EA.	Stock No.	Type	Style	Wt., lbs.	NET EA.	3-Up, EA.
91 RX 583	C220L*	Louver	14	17.03	15.58	91 RX 585	C220G*	Ribbed Gl.	14	14.30	13.05
91 RU 584	C240L†	Louver	29	28.65	26.20	91 RU 586	C240G†	Ribbed Gl.	30	26.20	23.90

WALL BRACKET

Model 704. Attractive fluorescent wall bracket for general-purpose use in shop, store or home. Has handy flush-type electrical outlet on side panel. Triple-chrome finish. Rotary type on-off switch. 20x2 3/4 x 2". With starter. Takes 15 watt bulb. Less lamp and shade. U.L. Approved. For 110-120 v., 60 cycle AC. Wt., 3 lbs.
91 RX 286. NET EACH..... 4.58
3 or More, EACH..... 4.24



Model 705. As Model 704, but has adjustable shade for directing light. Wt., 3 1/2 lbs.
91 RX 287. NET EACH..... 5.36
3 or More, EACH..... 4.95

STARTERS & SOCKETS



High-quality starters and sockets for all types of fixtures. *Circline. †Circlar. Av. wt., 3 oz.

A STARTERS

Stock No.	Mfr's Type	Watts	Each	Lots of 10, EA.
78 R 850	FS2	14, 15, 20	20¢	18¢
78 R 851	FS4	30 or 40	20¢	18¢
78 R 854	FS10	32	28¢	25¢
78 R 855	FS22	14, 15, 18* 20-22†	28¢	25¢

B LAMPHOLDER SOCKETS

Stock No.	Watts	Color	Each	Lots of 10, EA.
78 R 860	14, 15, 20	Black	21¢	19¢
78 R 861	30 or 40	White	22¢	20¢

C STARTER SOCKETS

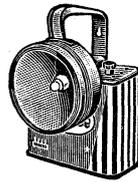
Standard Dual-Loc remote starter socket.
78 R 858, 1 to 9, NET EACH..... 16c
10 or More, EACH..... 14c

D STARTER SOCKET & LAMPHOLDERS

Stock No.	Watts	Color	Each	Lots of 10, EA.
78 R 865	14, 15, 20	Black	42¢	38¢
78 R 866	30 or 40	White	44¢	40¢

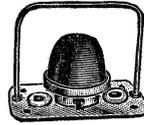
BURGESS QUALITY LANTERNS AND FLASHLIGHTS

RADAR BEARCAT LANTERN



enamel finish. Size 8 5/8 x 5 1/4 x 3/4" (including battery). With Type TW1 6 v. battery. Shpg. wt., 4 1/2 lbs.
78 J 227. List, \$6.95. NET..... 4.34

"RADAR-LAMP" LANTERN



Model TW34



Model TW7

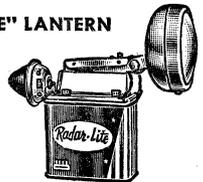
Model TW9. New focusing lantern puts light where you need it—near or far. Wide-angle or pinpoint light with twist of built-in focusing ring. Has steelclad battery and waterproof switch for safe, efficient outdoor use in any weather. Powerful light beam can be seen for one-half mile. Two insulated knurled nuts hold battery. Red, baked glass lens. (Including battery). With Type TW1 6 v. battery. Shpg. wt., 4 1/2 lbs.
78 J 227. List, \$6.95. NET..... 4.34

Model TW7. Outstanding new portable lantern with super-intensity lamp. Completely leakproof and weatherproof. Simple to operate and convenient to carry. Battery can be replaced in seconds—two insulated knurled nuts hold battery firmly to head assembly. 9 1/4 x 5 1/4 x 2 3/4" (including battery). With TW1 6 v. battery. Wt., 4 1/2 lbs.
80 J 686. List, \$8.95. NET..... 5.53

TW34 Flasher Light. Similar construction to "Radar Lamp," above—attaches to top of TW1 battery. Provides red light which flashes on and off. Chrome plated. 4 1/2 x 4 1/2 x 1/2". Less battery. Shpg. wt., 1 lb.
80 J 687. List, \$3.95. NET..... 2.53

RL22 Storage Bracket. Bracket with spring clips to hold "Radar Lamp" (above) to floor or wall of car or truck. Wt., 1 lb.
80 J 688. List, \$1.50. NET..... 1.00

"RADAR-LITE" LANTERN

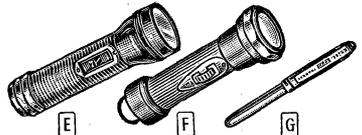


Model TW3. Super power, all purpose lantern. Sealed beam lamp develops 40,000 candlepower. Automatic red flashing signal on movable arm swings 90°. Battery is lantern body—can be installed in seconds. Convenient to carry. Chrome handle. 11 1/4 x 9 3/4 x 3 1/2". Lamp, 4 3/4" dia. With TW-1 6 v. battery. Wt. 6 lbs.
78 J 270. List, \$12.40. NET..... 7.63

Model TW4. As above, but less flasher.
78 J 228. List, \$9.95. NET..... 6.13

TW1 Battery. For TW3, TW4, TW7, TW9, TW34. Wt., 3 1/2 lbs.
80 J 680. List, \$2.45. NET..... 1.63

FLASHLIGHTS



E Model 255. New, two-cell flashlight. Ribbed metal case in gleaming chrome finish. Has 3-position switch, pre-focused lamp. Less two No. 2 cells. Shpg. wt., 3/4 lbs.
78 J 218. List, \$1.89. NET..... 1.26

F Model 350. New two-cell flashlight. Fiber barrel with rubber cushioned head, end cap. Pre-focused and weatherproof. Uses two No. 2 cells. With lamp. Less batteries. 1 lb.
78 J 229. List, \$1.90. NET..... 1.28

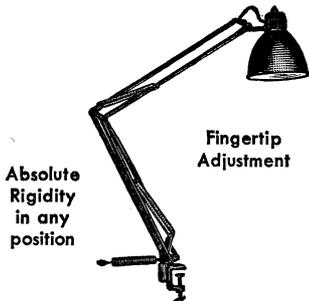
Model 450. As above, but uses three No. 2 cells and PR3 lamp. Less batteries. 1 1/4 lbs.
78 J 235. List, \$2.15. NET..... 1.44

G Type 152 Penlight. Duo-Tone and chrome finish. Uses two No. 7 cells. With No. 224 bulb. Less battery. Wt., 5 oz.
78 J 245. List, 88¢. NET..... 59c

See Page 425 for Batteries

Desk Lamps—Fluorescent Lamps—Lanterns

LUXO ADJUSTABLE LAMPS

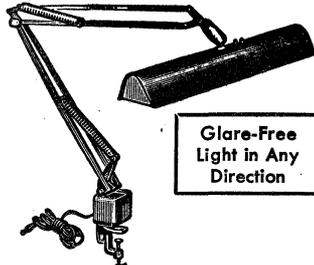


Absolute Rigidity in any position

Fingertip Adjustment

MODEL L-1A ALL-ANGLE LAMP

The Luxo lamp, made in Norway, is famous for its precision construction and exceptional flexibility. Provides excellent illumination, instantaneous fingertip adjustment, and absolute rigidity in any position. The perfect lamp for serviceshop and work bench. Swings from a straight vertical position to within a few inches of the floor. May be raised, lowered, or turned with a touch of the fingers. Has two extension arms, 45" long. Swivel joints are spring-loaded; knurled nut controls overall tension. Porcelainized shade has large vents at top for heat dissipation. On-Off switch conveniently located at top of shade. Supplied with clamp for easy attachment to bench table, etc. Handsome dove gray finish. Durable built and light in weight. U.L. Approved. Uses standard light bulb. Less bulb. Shpg. wt., 5 lbs.
91 RX 296. List \$21.95. NET.....16.46



Glare-Free Light in Any Direction

MODEL FL-1A FEATHER-TOUCH ALL-ANGLE FLUORESCENT LAMP

This all-purpose fluorescent lamp features "feather-touch" positioning—may be raised, lowered, or turned with a touch of the fingers. Unique, spring-loaded extension arms always stay in desired position. Lamp housing is also adjustable—may be turned up, down, or sideways—always remains at same angle regardless of arm positioning. Uses 15-watt tubes for glare-free light. Shade is 19" long by 4 1/2" wide—has convenient push-button-type starter. Equipped with clamp for easy mounting on work bench, desk, or table. Handsome dove-gray finish. Underwriters Laboratories' Approved. For operation from 110-120 volts, 60 cycle AC. Less lamps (requires 2 Type T8 18" lamps as listed below). Shpg. wt., 9 lbs.
91 RX 228. List, \$27.95. NET.....20.96

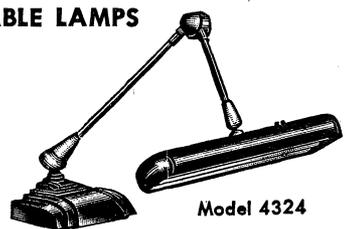
FLEXO ADJUSTABLE LAMPS



Model 4303

MODEL 4303 ALL-PURPOSE LAMP

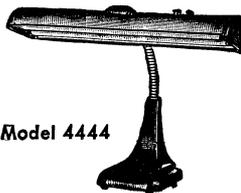
A well-designed all-purpose lamp. Head tilts vertically 180° and turns 300° on its axis. Upper elbow swings in 160° vertical arc; lower elbow swings in 110° vertical arc. Extends to 36". Spring-controlled swivel joints. Push-button off-on switch. Easily installed—two bolts clamp base firmly to surfaces up to 3" thick. Bronze finish. Requires two T8, 15-watt lamps. For 105-125 v., 60 cycle AC. U.L. Approved. Less lamps (below). Shpg. wt., 10 lbs.
91 RX 225. List, \$20.95. NET.....15.40
3 or More, EACH.....14.38



Model 4324

MODEL 4324 PORTABLE DESK LAMP

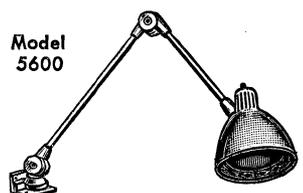
Portable desk model. Similar to Model 4303 (left) but with weighted base. For desks where screw clamp cannot be used. Raises and lowers, extends and tilts in any direction. Stays in position. Ideal for fine precision work, service bench use, industrial assembly lines, etc. Gives a light without glare or shadow. Attractive streamline base design has pen and pencil grooves. Double arm extends 32". U.L. Approved. For 105-125 volts, 60 cycle AC. Less lamps (requires 2-T8 15-watt lamps as listed below). Shpg. wt., 23 lbs.
91 RU 226. List, \$28.95. NET.....21.28
3 or More, EACH.....19.86



Model 4444

MODEL 4444 "FLEXARM" TWIN-LIGHT

Versatile flexible-arm desk lamp. Gooseneck shade has 8" to 14" swing. Sturdy metal base. Heavy-gauge steel shade, 2 1/4 x 4 1/2 x 18". White enameled reflector. Push-button switch. Requires two T8, 15-watt fluorescent lamps. Bronze finish. U.L. Approved. For 105-125 v., 60 cycle AC. Less lamps (below). Wt., 10 lbs.
91 RX 146. List, \$14.95. NET.....10.95



Model 5600

MODEL 5600 "COOL-SHADE" LAMP

Low-cost, fully adjustable bench lamp. Fingertip control—rigid in any position. Shade vented for heat dissipation. Swivels at base. Entirely spring-controlled in base, middle joint and shade. Maximum extension, 42". Convenient off-on switch. Shade dia., 3 1/2"; 7" deep. Less bulb. Gray. Shpg. wt., 3 1/2 lbs.
91 RX 142. List, \$11.95. NET.....8.77

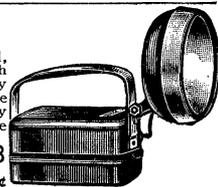
"STRAT-O-LITE" INSPECTION LAMP

A carefully designed, easy-to-use, industrial-type magnifier. Has built-in fluorescent lamp for excellent illumination. An ideal unit for close inspection of small-sized objects. Has 4 1/2" dia. x 9" focal length lens centers in 360° black shield; provides shadow-free, perfectly enlarged vision. Adjustable arm and swivel joints, permit adjustment to any combination of height, angle, magnification, and light source. Supplied with instant-start fluorescent circline lamp; illuminates at touch of a button. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 11 lbs.
91 RX 350. NET.....29.95



"LIFETIME" MODEL 5015 ALL-PURPOSE LANTERN

Features powerful, sharp focus, sealed-beam lamp. May be hand-held, hung on wall or set on flat surface. Lamp fully adjustable through 180-degree swivel. Lamp and handle fold down for easy storage. 3-way switch for off-on-manual-flash operation. Ideal emergency or trouble light for servicemen, motorists, etc. Uses one 6-v. lantern battery (Burgess F4H listed below). In bright red baked enamel with chrome trim. Less battery. 5x3x2 1/4". Lamp 4" dia. Shpg. wt., 2 lbs.
78 J 222. NET.....3.28
53 J 02B. F4H Battery. Wt. 1 1/4 lbs. NET.....84¢



STANDARD AND CIRCLINE FLUORESCENT LAMPS

A selection of highest-quality standard and Circline fluorescent lamps. The types listed below represent the sizes most frequently employed in office, industrial and home applications. Feature extremely even diffusion, high illumination, and excellent economy of operation. Use only a fraction of the power of incandescent-type bulbs. Provide glare-free, virtually shadowless light from entire surface of lamp. White lamps have light characteristic which approximates that of standard incandescent bulbs. Daylight lamps provide light with a slightly bluish tinge approximating natural daylight. Cool-white lamps are 4500° Kelvin. Lamp life is approximately 2000 hours. *Circline lamps; size shown in table is the diameter of the lamp circle. All lamps below have medium-size bi-pin bases except Type L-5 (miniature bi-pin) and Circline lamps which have 4 pin bases. †Rapid-start lamps.

Stock No.	Type	Watts	Size	Tube Dia.	Color	Std. Pkg.	Wt. Lbs.	NET EACH	In Std. Pkg., EA.
91 R 521	T5	6	8 1/4"	5/8"	White	24	1/2	1.35	1.08
91 R 511	T12	14	15"	1 1/2"	Cool-white	24	1	1.00	.80
91 R 500	T8	15	18"	1 1/8"	Daylight	24	1	1.05	.84
91 R 514	T12	15	18"	1 1/2"	Cool-white	24	1	1.00	.80
91 RX 502	T12	20	24"	1 1/2"	Daylight	24	1 1/2	1.05	.84
91 R 535	T9*	22	8 1/4"	1 1/8"	Cool-white	12	1 1/2	3.50	2.80
91 R 516	T10*	32	12"	1 1/4"	Cool-white	12	1 1/2	3.50	2.80
91 RX 538	T10*	40	16"	1 1/4"	Warm-white	12	1 1/4	4.70	3.76
91 RX 534	T12†	40	48"	1 1/2"	Cool-white	24	2	1.30	1.04
91 RX 506	T12	40	48"	1 1/2"	Daylight	24	2	1.25	1.00

ADVANCE FLUORESCENT BALLASTS



For all popular fixtures. Normal power factor types are 55-65% corrected. High power factor types are 90-100% corrected. L-132 is for standard Circline; LQ-132 is for quick-start Circline. U.L. Approved. For 105-125 volts, 60 cycle AC. *Lamp watts.

1-LAMP BALLAST—NORMAL POWER FACTOR									
No.	Type	Watts*	Size	Ctrs.	Lbs.	NET			
78 R 889	L-115	15	4 1/4 x 2 1/2 x 1 1/8"	3 3/8"	1	1.00			
78 R 891	L-120	20	4 1/4 x 2 1/2 x 1 1/8"	3 3/8"	1	1.00			
78 R 893	L-140	40	6 1/2 x 1 1/2 x 1 3/8"	6"	3	1.70			
78 R 894	L-132	32	6 1/2 x 1 1/2 x 1 3/8"	6"	2 3/4	1.70			
78 R 885	LQ-14								
	20-C	14, 15, 20	3 1/2 x 1 2/8 x 1 1/4"	2 3/4"	3/4	.68			
78 R 895	LQ-132	32	6 1/2 x 2 1/2 x 1 1/8"	6"	3 1/4	2.80			
2-LAMP BALLAST—NORMAL POWER FACTOR									
78 R 898	L-220	20	6 1/4 x 2 1/2 x 1 1/8"	5 5/8"	1 1/2	1.90			
1-LAMP BALLAST—HIGH POWER FACTOR									
78 R 887	SM-175-S	55	1 4/8 x 3 3/8 x 1 1/8"	1 3/4"	10	9.45			
2-LAMP BALLAST—HIGH POWER FACTOR									
78 R 896	S-240	40	1 1/4 x 2 5/8 x 1 1/8"	1 1/4"	4 1/2	5.00			
78 R 897	RSHM-240	40	9 1/2 x 2 3/8 x 1 1/8"	8 1/8"	4 3/4	5.85			
78 R 886	SEQM-275-S	55, 74	1 4/8 x 3 3/8 x 1 2/8"	1 3/4"	9 1/2	9.45			

Auto Antennas and Vibrators



WARD AUTO RADIO ANTENNAS

Improve car radio reception with a modern antenna of advanced design. And at Allied's low prices.

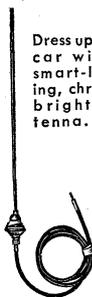
TFL-1



TCF-4



TCF-3C



Dress up your car with a smart-looking, chrome-bright antenna.

L-1000



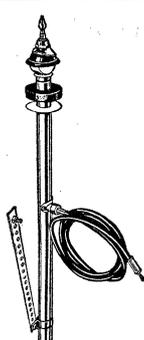
SC-6



TGF-1



TCFR-1



D-2000

REAR-FIN ANTENNAS

Model TFL-1. A rear-fin antenna designed to give a "custom touch" to any car. Features handsome, swept-back styling. Constructed of the finest materials. Heavily chrome-plated to retain its gleaming finish against effects of weather, dirt, etc. Three sections extend to 27". A built-in capacitor in the lead-in improves reception in weak-signal areas. Complete instructions, with 15-ft. cable and all connectors. Shpg. wt., 1 1/4 lbs.
91 CX 367, List, \$8.50. NET.....5.00

Model TFLT-1 Twin Antennas. As above, but with one antenna for each rear fender. Shpg. wt., 2 1/2 lbs.
92 CX 575, List, \$14.95. PER PR.8.79

TOP-COWL AND FENDER TYPES

Model TCF-4. New, high-quality smartly styled antenna for either top-cowl or fender mounting. Ball mounting permitting adjusting up to 35°. The four telescoping sections extend to 57". Attractive chrome finish for lasting beauty. Sleek and modern for today's cars. Easy to install. Supplied complete with 54" lead cable. Shpg. wt., 1 1/4 lbs.
92 CX 576, List, \$6.95. NET.....3.67

Model TCF-3C. A top-notch antenna that offers deluxe appearance and fine performance. Has popular "Eight Ball" design for simplified installation on top cowl. Will fit any type of car perfectly. It adjusts to any desired angle. Has 3 sections—extends to 56". Constructed of triple chrome-plated brass tubing; has 54" lead-in. With instructions and all hardware. Shpg. wt., 1 lb.
97 CX 213, List, \$5.90. NET.....3.47

NEW, LOK-MATIC UNIVERSAL TYPE

Model L-1000. In this new antenna, the interlocking parts drop into place automatically. Provides tighter installation, positive fit and built-in waterproof. Easily installed by one man in minutes, completely from outside! Fits any hole 7/8" to 1 1/4". Its 3 sections extend to 57". Has 54" cable. Adjusts up to 43° angle. Shpg. wt., 1 1/4 lbs.
92 CX 579, List, \$6.75. NET.....3.97

SIDE-COWL TYPE

Model SC-6. Chrome-plated brass, side-cowl antenna. 3 sections—extends to 66". Low-loss 2-stanchion mount with bakelite and chrome insulators. New positive shielding eliminates use of shield can. Detachable 36" polyethylene insulated vinylite covered, high "Q" lead-in. Simple to install. Will fit even on irregular type car bodies. Shpg. wt., 1 lb.
97 CX 215, List, \$5.45. NET.....3.20

Model SC-8. Popular side-cowl antenna. 4 sections—extends to 100". 2-stanchion mount 36" vinylite covered high "Q" lead-in. Fits irregular car bodies. Shpg. wt., 1 3/4 lbs.
97 CX 216, List, \$7.65. NET.....4.50

NEW DISAPPEARING TYPE

Model D-2000. A new model disappearing auto antenna. It collapses to only 1' high—yet can be extended to 45" high. Designed to fit any car. Can be either fender-mounted or cowl-mounted. Has sturdy aluminum housing. 54" lead-in. Shpg. wt., 1 3/4 lbs.
92 CX 580, List, \$7.95. NET.....4.67

"DURA-RAMIC" AUTO ANTENNAS

Model TGF-1. Colorful auto antennas—constructed of opaque, corrosion-proof fiberglass. Extremely flexible. Made from millions of fibers of glass, woven together and resin-impregnated under pressure. The antenna elements are completely imbedded in the protective fiberglass. Excellent sensitivity in low-signal areas. Equal to metallic-type antennas. Features "Eight-Ball" top-cowl mounting. Adjusts to any desired angle. Fits any car. Has 54" vinylite covered, shielded lead-in. Length, 36". Available in 7 attractive opaque colors. Shpg. wt., 1 lb.

92 CX 002, Red. 92 CX 006, White.
92 CX 003, Blue. 92 CX 007, Yellow.
92 CX 004, Green. 92 CX 009, Chrome.
92 CX 005, Brown.
List, \$5.95. NET EACH.....3.50

REPLACEMENT ANTENNA MAST

Model TCFR-1. 3-section replacement mast for weather-worn antennas. Fits over stub of old antenna. Set screws provide secure mounting. Extends to 57". Shpg. wt., 1/2 lb.
92 CX 595, List, \$2.43. NET.....1.43

ANTENNA LEAD EXTENSIONS

Additional lead cable lengths for fender and rear mount installations.

Stock No.	Mfr's Type	Length	Shpg. Wt.	NET
49 C 557	C-9	18"	6 oz.	.53
49 C 558	C-12	24"	7 oz.	.71
49 C 556	C-42	15-ft	1/2 lb.	1.91
49 C 559	C-63	18-ft.	3/4 lb.	3.23



Allied's large on-hand stock means you get fast service on your orders for vibrators. Mallory precision vibrators are fully backed by years of outstanding performance. They offer the dependability, the long life and the trouble-free service required for all vibrator applications. These carefully designed, precision units provide the lowest cost-per-hour of actual

use. Their springs are fabricated of high-grade clock-spring steel; held in perfect alignment by a rugged frame. Flexible 105-strand lead wire won't break—connections stay intact. If Mallory type number is not known, write to Allied, stating make, model, tube line-up of set, or part number of the original vibrator—we will promptly recommend the correct Mallory replacement. Av. shpg. wt., 8 oz.

MALLORY REPLACEMENT VIBRATORS

Stock No.	Mfr's Type (Old)	Mfr's Type (New)	Volts	Size	List	NET EACH
56 P 000	4-4	4-4	6	1 1/2 x 2 7/8"	\$2.50	1.47
56 P 154	12-3	12-3	12	1 1/2 x 2 7/8"	2.45	1.44
56 P 155	12-4	12-4	12	1 1/2 x 2 7/8"	2.43	1.44
56 P 054	294	294	12	1 1/2 x 3 1/4"	4.90	2.88
56 P 120	509P	509P	6	1 1/2 x 2 7/8"	4.15	2.44
56 P 056	G567C	G1801/G567C	12	1 1/2 x 3 1/4"	9.95	5.85
56 P 077	716	716	6	1 1/2 x 3 1/4"	7.70	4.53
56 P 079	725C	1801S/725C	6	1 1/2 x 3 1/4"	8.55	5.03
56 P 080	G725C	G1801S/G725C	12	1 1/2 x 3 1/4"	9.95	5.85
56 P 110	826C	1603S/826C	6	1 1/2 x 3 1/4"	6.35	3.73
56 P 086	F826C	F826S/F826C	32	1 1/2 x 3 1/4"	7.70	4.53
56 P 111	G826C	G1603S/G826C	12	1 1/2 x 3 1/4"	7.70	4.53
56 P 092	854	854	6	1 1/2 x 3 1/4"	4.90	2.88
56 P 113	859	1601/859	6	1 1/2 x 2 7/8"	4.70	2.76
56 P 132	G859	G1601/G859	12	1 1/2 x 2 7/8"	4.70	2.76

Stock No.	Mfr's Type Old	Mfr's Type (New)	Volts	Size	List	NET EACH
56 P 118	W859	W1601/W859	4	1 1/2 x 2 7/8"	\$4.90	2.88
56 P 094	870	870	6	1 1/2 x 2 7/8"	4.90	2.88
56 P 133	G883	G1602/G883	12	3/4 x 1 1/2"	4.70	2.76
56 P 121	903M	903M	6	1 1/2 x 2 7/8"	3.60	2.12
56 P 159	1701	1701	6/12	1 1/2 x 2 7/8"	9.60	5.64
56 P 160	1751	1751	6	1 1/2 x 2 7/8"	9.80	5.76
56 P 127	T4002	T4002	2	1 1/2 x 1 1/2 x 2 1/2"	10.70	6.29
56 P 128	T4003	T4003	2	1 3/4 x 2 1/2"	9.80	5.76
56 P 135	4501	1501/4501	6	1 1/2 x 2 7/8"	6.35	3.73
56 P 140	M4501	M1501/M4501	24	1 1/2 x 2 7/8"	6.90	4.06
56 P 144	G4548	G1807/G4548	12	1 1/2 x 3 1/4"	8.55	5.03
56 P 145	G4549	G1801/G4549	12	1 1/2 x 3 1/4"	8.55	5.03
56 P 131	G4501	G1501/G4501	12	1 1/2 x 2 7/8"	6.35	3.73
56 P 138	4548	1807/4548	6	1 1/2 x 3 1/4"	7.70	4.53
56 P 139	4549	1801/4549	6	1 1/2 x 3 1/4"	7.70	4.53



Heavy-duty vibrators for Cornell-Dubilier "Powercon" inverters. Also replace vibrators in many mobile amplifiers. Rugged construction assures years of service. Vibrators with VB and VC in Type No. are mounted in sponge

rubber for minimum noise and maximum stability. Vibrators with VD in Type No. are less sponge rubber; have liner for greater heat dissipation. *Tandem types have higher power handling capacity; have two 6-pin plugs on case. Av. shpg. wt., 1 lb.

CORNELL-DUBILIER INVERTER VIBRATORS

Stock No.	Mfr's Type	Volts	Used in "Powercon" Models	NET EACH
82 P 753	6VB6H	6	6DC6, 6/110DH6, 6R5, 6S8, 6SW8	7.94
82 P 789	6VD6H	6	6SH15 6SW15	13.82
82 P 775	2529	6	6SP2, 6LM3	2.44
82 P 777	2532	6	6/12D5, 6L6, 12L8	6.05
82 P 782	12VB6H	12	12DC6, 12R8, 12S10, 12SW10	13.82
82 P 783	*12VD6H	12	12DC12, 12H15, 12RU15 12SH20, 12SW15	13.82

Stock No.	Mfr's Type	Volts	Used in "Powercon" Models	NET EACH
82 P 779	2530	12	12SP2, 12LM4	2.44
82 P 780	2532	12	12M6	4.53
82 P 787	110VB6H	110	110H25, 110S15, 110SW15, 220H25, 220S15	7.94
82 P 788	*110VC6H	110	110H35, 110RT35, 110SH40, 110SW35, 220SH40	13.82
82 P 784	2533	110	110LM5	2.44

in Public Address and Sound Distribution you get MORE with ALLIED'S quality *knights* P.A. equipment



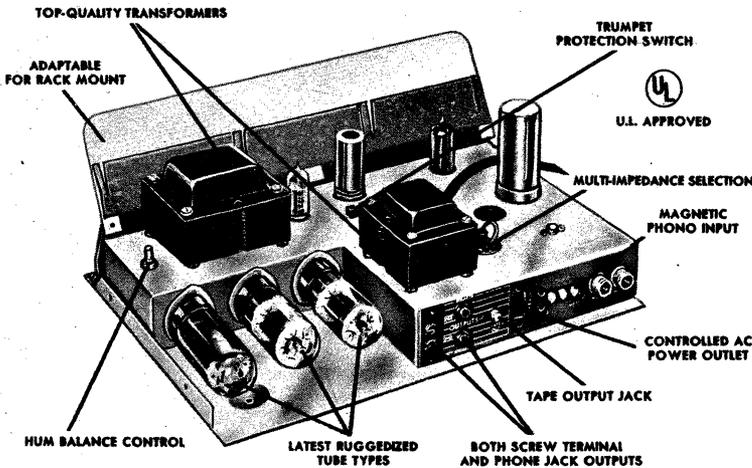
BETTER QUALITY SOUND
SUPERIOR DESIGN AND CONSTRUCTION
LONGEST OPERATING LIFE

Knight P.A. equipment meets every critical requirement for superior sound coverage. A combination of highest quality components and expert workmanship deliver rugged year-in, year-out operating dependability—your assurance of supremacy in performance and value.

SAVE ON A COMPLETE SOUND SYSTEM. The cost of a complete Knight Sound System is always less than the total cost of individual components purchased separately. Additionally, only top-quality, nationally known parts and component products are used in the makeup of our P.A. systems. Whatever your plans—coverage of large open spaces or moderate sound distribution—Knight public address systems are your best buy. **USE OUR FREE CONSULTING SERVICE.** Our audio experts are always ready to help you. Give us approximate audience figures, area coverage dimensions, noise level, and a rough sketch of area to be covered. Careful recommendations are promptly made.

IT'S EASY TO SELECT THE EQUIPMENT YOU NEED. The sound systems listed on the following pages have been expertly designed to fill most public address applications. In addition, you may select sound distribution components to fit a specific need—it's easy and it's sure. Simply decide how many speakers you will need to cover a particular area (helpful hints can be found on page 324). Then, approximate the necessary wattage—and choose the next larger size amplifier. When selecting sound sources, consult the following pages: for mikes, see page 314; for tuners, see pages 38-39; for record changers, see pages 81-83. Or—use our free consulting service for recommendations.

YOU GET QUALITY FEATURES . . . HONEST RATINGS IN *knights* P.A.



Knight public address amplifiers deliver unsurpassed performance because *more quality is built into each unit.* The use of more copper and iron in the output transformers provides better sound quality. Tubes are operated within the manufacturer's specifications to assure you long, dependable service. A safety margin is adhered to in the selection of highest quality capacitors and resistors. Careful tube spacing minimizes hum—assures maximum operating stability. In addition to our own rigid specs, Knight P.A. amplifiers, from 16 to 60 watts (and our 60-watt power booster, too), fully meet stringent Underwriters' Laboratories specifications for complete operating safety.

EVERY *knights* AMPLIFIER IS GUARANTEED FOR ONE FULL YEAR

FULL YEAR GUARANTEE

All Knight amplifiers are guaranteed for *one full year* against defects in material and workmanship. Skillfully engineered and conservatively rated, they can be run 24 hours a day—and still provide long, dependable service.

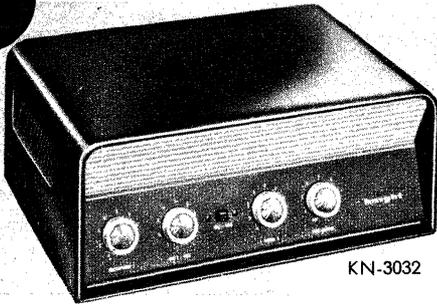
BUY ON OUR EASY TERMS

The finest sound equipment in the P.A. field—at the lowest prices—is readily available to you on our Easy Payment Plan. You pay just 10% down, and the balance in convenient monthly payments. Full Easy Pay details are on page 444.

15-DAY MONEY-BACK TRIAL OFFER

We guarantee absolute satisfaction. Order any Knight Sound System you want, either for cash or on our Easy Payment Plan. Test it out for yourself, under your own operating conditions. If, after 15 days, it is not everything we claim it to be—send it back. *We'll refund every penny of the purchase price, less only transportation charges.*

THERE IS A knight AMPLIFIER FOR EVERY P.A. NEED



KN-3032

knight 32-Watt P.A. Amplifier

ONLY
\$58.95

- 32 Watts, for 90% of P.A. Needs
- 2 Mike Inputs; 5 Tubes Plus Rectifier
- 1—Magnetic & 2—External Phono Inputs
- Tone, Phono Fader, & 2—Mike Controls

Less Record Player

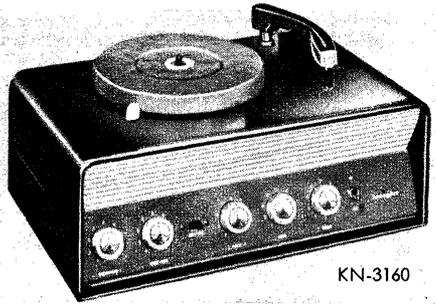
MODEL KN-3032. An outstanding P.A. value, the Knight 32-Watt Amplifier is a triumph of skillful engineering. Its highly attractive, ultra-compact styling features a tilted control panel for operator convenience; handsome cabinet with deep-well hand grips for easier carrying. Adaptable to every P.A. use, the 32-watt amplifier is perfect for music, paging, general coverage under high-noise conditions, and other P.A. uses.

This superior amplifier features: Phono fader control for selection of either of 2 high-level program sources (tape recorder, changer or tuner) and phono, with volume control of each from a single knob; tape output for simultaneous recording and P.A.; impedance selector for greatly simplifying speaker hook-up; trumpet protector feature—protects trumpets from low-frequency burnout. Speaker output taps of 4, 8, 16, 250 and 500 ohms, as well as 70.7-v. output, permit use of up to 32 speakers! **Power Output:** Full 32 watts of usable power. **Response:** ±2 db, 30 to 20,000 cps. Hum is inaudible; 78 db below rated output. **5 Inputs:** 2—Mic, 2—Phono, 1—Magnetic Phono. **Controls:** Mic (2), Phono Fader, Off-On/Tone, Mic/Magnetic Phono switch; also has hum balance adjust. **Tubes:** 2—ECC83/12AX7, 6AV6, 2—6L6GB; 5U4GB rectifier. Size, 6½x15½x11". With all input plugs. Less record player. U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 26 lbs.

93 SU 507. Only \$5.90 Down. NET.....58.95

MODEL KN-3132 32-WATT AMPLIFIER WITH RECORD PLAYER INSTALLED. Shpg. wt., 28 lbs.

93 SU 740. Only \$7.83 Down. NET.....78.25



KN-3160

knight 60-Watt P.A. Amplifier

ONLY
\$84.00

- Tremendous Power—Minimum Distortion
- Bass, Treble, Phono & 2—Mike Controls
- 2 Mike Inputs; 5 Tubes & 2 Rectifiers
- Magnetic & 2—External Phono Inputs

Less Record Player

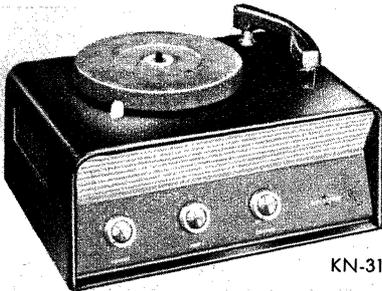
MODEL KN-3060. Designed by experts to give you the most for your P.A. dollar, the new Knight 60-watt Amplifier is perfect for stadiums, industrial plants, raceways, carnivals, church tower chime systems, schools—wherever maximum coverage is necessary. Although compact in size, there's hardly a big job it cannot do—and with the aid of the 60-watt power booster described on page 307, its P.A. uses are practically limitless! Tape output jack allows you to make high-quality tape recordings of all program material going through your P.A. system. Trumpet protector switch protects your trumpets. Phono fader control provides smooth transition from one phono input to the other with center-off position. Magnetic input allows you to plug a hi-fi record changer into the amplifier. Impedance Selector for utmost ease in speaker hook-up. Hum balance adjust.

Power Output: Full 60 watts of usable power. Hum is inaudible; 71 db below rated output. **Frequency Response:** ±2 db, 20 to 20,000 cps. **5 Inputs:** 2—Mic, 2—Phono, 1—Magnetic Phono. **Controls:** Mic (2), 1—Phono Fader, Bass, Treble, Mic/Mag switch, Off-on. **Tubes:** 2—ECC83/12AX7, 6C4, 2—6CA7/EL34; 5Y3GT, 5U4GB rectifiers. **Output Impedances:** 4, 8, 16, 250 and 500 ohms, plus 70.7-v. output. Size, 6¾x17¼x11". All-metal black case with white-and-chrome panel. With set of plugs. Less record player. U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 37 lbs.

88 SU 812. Only \$8.40 Down. NET.....84.00

MODEL KN-3160 60-WATT AMPLIFIER WITH RECORD PLAYER INSTALLED. Shpg. wt., 39 lbs.

88 SU 928. Only \$10.45 Down. NET.....104.50



KN-3116

knight 16-Watt P.A. Amplifier

ONLY
\$46.50

- Top Design—Dependable Performance
- One Mike, Two External Phono Inputs
- Phono Fader, Tone and Mike Controls
- Four Tubes Plus Rectifier

Less Record Player

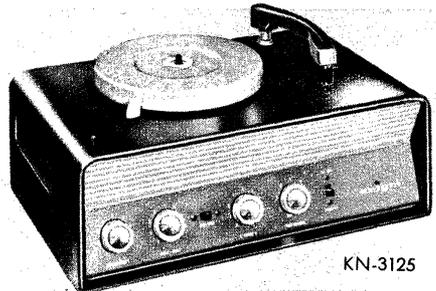
MODEL KN-3016. Designed with the user in mind, the excellent Knight 16-Watt P.A. Amplifier is perfect for smaller auditoriums, halls and church or school recreation rooms, etc. Has tape output jack for simultaneous recording and P.A.; phono fader control.

Power Output: Full 16 watts of usable power. **Frequency Response:** ±2 db, 30-15,000 cps. Hum is inaudible; 72 db below rated output. **3 Inputs:** Mic, 2—Phono. **Controls:** Mic, Phono Fader, Off-On/Tone; also has hum balance adjust. **Output Impedances:** 4, 8, 16, 250 and 500 ohms, and 70.7-v. output—permits up to 16 speakers. **Tubes:** 6AV6, ECC83/12AX7, 2—6V6GT; 5Y3GT rectifier. Size, 6½x15½x11". With all input plugs. Less record player. U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 25 lbs.

88 SU 809. Only \$4.65 Down. NET.....46.50

MODEL KN-3116 16-WATT AMPLIFIER WITH RECORD PLAYER INSTALLED. Shpg. wt., 28 lbs.

88 SU 925. Only \$6.58 Down. NET.....65.75



KN-3125

knight 25-Watt Mobile Amplifier

ONLY
\$106.50

- Use Indoors from 110-Volt AC Power
- Use Outdoors from 6 or 12-V. Battery
- Phono Fader, Tone, and 2—Mike Controls
- 2 Mike Inputs; 5 Tubes & 2 Rectifiers

Less Record Player

MODEL KN-3025. Remarkably versatile amplifier—operates anywhere—indoors or outdoors from either 6 or 12 v. DC, or 110 v. AC. Features: Tape output jack for simultaneous recording and P.A.; trumpet protector switch; battery "saver" switch.

Power Output: Full 25 watts. **Frequency Response:** ±2 db, 40-20,000 cps. Inaudible hum; 75 db below rated output. **5 Inputs:** 2—Mic, 2—Phono, 1—Magnetic Phono. **Impedances:** 4, 8, 16, 250, 500 ohms and 70.7-v. output. **Controls:** 2—Mic, Phono Fader, Off-On/Tone, Standby and Mic/Mag switch. 5 tubes, plus 2 rectifiers. Size, 6¾x17¼x11". Light brown hammerlock cabinet with aqua-and-white panel. With all input plugs. Less record player. For 6 or 12 v. DC or 110-120 v., 60 cycle AC. Shpg. wt., 34 lbs.

93 SU 506. Only \$10.65 Down. NET.....106.50

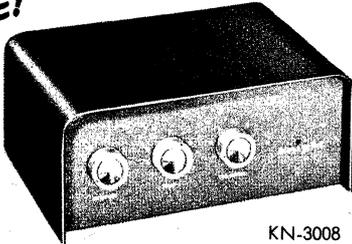
MODEL KN-3125. 25-WATT AMPLIFIER WITH RECORD PLAYER INSTALLED. Shpg. wt., 37 lbs.

93 SU 738. Only \$12.65 Down. NET.....126.50

GUARANTEED FOR ONE FULL YEAR

BIG VALUE!

Combines Low Cost with Dependable Operation



KN-3008

knight 8-Watt P.A. Amplifier

~~\$32.50~~
\$3.25 Down

- Compact—Remarkably Versatile
- One Mike, Two Phono Inputs
- Microphone, Phono and Tone Controls
- Two Tubes Plus Rectifier

MODEL KN-3008. Small in size, but with a large "voice," the Knight 8-Watt P.A. Amplifier is an unbeatable value. You'll find hundreds of uses for this little "powerhouse"—at carnivals, bazaars, amusement parks; sales demonstrations and auctions; small clubs, classrooms, churches, stores, cafes, rumpus rooms (plug in a record player for parties); etc. Tape output jack allows recording and P.A. simultaneously; phono fader control gives you single-knob volume control over two phono inputs. **Output:** Full 8 watts of usable power. Hum is inaudible; 62 db below rated output. **Response:** ±2 db, 70 to 10,000 cps. **Output Impedances:** 4 and 8 ohms. **3 Inputs:** 1—Mic, 2—Phono. **Controls:** Mic, Phono Fader, Off-On/Tone. **Tubes:** ECC83/12AX7, 6L6GB; 5Y3GT rectifier. Enclosure styled in black and brushed chrome. Size, 4½x10½x7¾". For 110-120 v., 60 cycle AC. Shpg. wt., 12 lbs.
88 SX 808. Only \$3.25 Down. CASH NET..... 32.50

PUBLIC ADDRESS ACCESSORIES

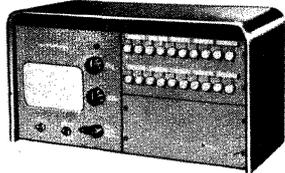


knight 60-Watt Power Booster

ONLY ~~\$69.50~~
\$6.95 Down

MODEL KN-3061. Step up your P.A. system by a full 60 watts of audio power with this versatile booster-amplifier! For use with any P.A. amplifier that delivers 0.4 volt or more at its speaker terminals. Tremendously boosts area coverage, provides husky power reserve and overcomes high noise. Perfect for sports arenas, stadiums, tracks, or large auditoriums. Can be added to church P.A. system to provide the power needed for a chime or carillon installation.

Output: Full 60 watts. **Hum:** —71 db. **Response:** ±2 db, 20 to 20,000 cps. **Input for 60-Watt Output:** 0.4 volt. **Output Impedances:** 4, 8, 16, 250 and 500 ohms; plus 70.7-v. output. **Controls:** Off-On, Volume; also has hum balance adjustment. Trumpet protector switch; tape output jack. **Tubes:** ECC83/12AX7, 6CA, 2—6CA7/EL34; 5Y3GT, 5U4GB rectifiers, 7¼x15x8½". U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 24 lbs.
93 SU 694. Only \$6.95 Down. CASH NET..... 69.50

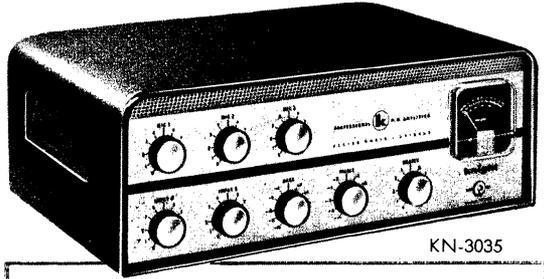


knight Control Unit for Paging and Intercom

ONLY ~~\$77.50~~
\$7.75 Down

Exceptionally versatile control unit with complete switching for up to 40 stations, in any combination, for talking, listening, or transmission of program material; it may be used with any P.A. amplifier. Handles 20 stations; adapter panel (below) permits the addition of 20 more keys. Controls include a volume control, talk-listen-program switch, and an "all-call" switch. Self-contained speaker may be used as a microphone; a jack is provided for an external microphone. Applications include school, hospital and factory intercom systems. Requires no power—connects to amplifier input and output. Size, 9x17¼x7". Shpg. wt., 11½ lbs.
93 SX 056. NET..... 77.50

EXTRA 20-KEY PANEL. For control unit above. 1¾ lbs.
93 SX 057. NET..... 29.50



KN-3035

SUPERIOR QUALITY

knight 35-Watt Professional Amplifier

~~\$109.75~~
\$10.98 Down

- Our Most Versatile Amplifier
- 3 Mike, 2 Phono Controls
- 2 Tone; Master Volume Controls
- 5 Ruggedized Tubes & Rectifier

MODEL KN-3035. Expertly engineered and carefully assembled, the Knight KN-3035 35-Watt Professional P.A. Amplifier assures you of dependable performance, simplified operation, and maximum versatility of application. Combines a smart, professional appearance with ease of operation. Features include: Cannon Series XL connectors; volume unit meter with range switch; provision for plug-in low-impedance mike transformers and also remote mixing of 3 mikes (see below); trumpet protector switch; output impedance selector socket; output tube balancing control; and tape output jack for recording program material going through your P.A. system.

Power Output: Full 35 watts output at only 2% distortion. Hum is inaudible—71 db below rated output. **Frequency Response:** ±2 db 20-20,000 cps. **6 Inputs:** 3—Mic, 2—Phono, 1—Magnetic Phono. **Controls:** Mic (3), Phono (2), Master Volume (controls all inputs simultaneously), Bass, Treble, Off-On, and hum balance adjust. **Output Impedance:** 4, 8, 16, 250 and 500 ohms, plus 70.7-v. output. **Tubes:** 3—ECC83, 12AU7, 2—EL34 and 5U4GB rectifier. Rugged, all-metal black case with brushed chrome front panel. Size, 67½x17¼x11". U.L. Approved. For 110-120 v., 50-60 cycle AC. Shpg. wt., 28½ lbs.

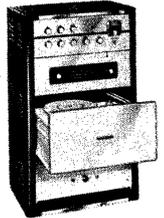
93 SU 055. Only \$10.98 Down. NET..... 109.75

PLUG-IN LOW IMPEDANCE MIKE TRANSFORMER. Matches mikes with impedances from 50-600 ohms. Wt., 1 lb.
93 S 068. NET..... 13.50

REMOTE CONTROL UNIT. For use with Model KN-3035 amplifier only. Permits fading and mixing 3 mike inputs up to 1000 ft. away. Supplied with 50-ft. cable. Size, 5x2½x17". Shpg. wt., 1½ lbs.
93 S 070. NET..... 12.75

Rack Panel Kits for knight P.A. Units

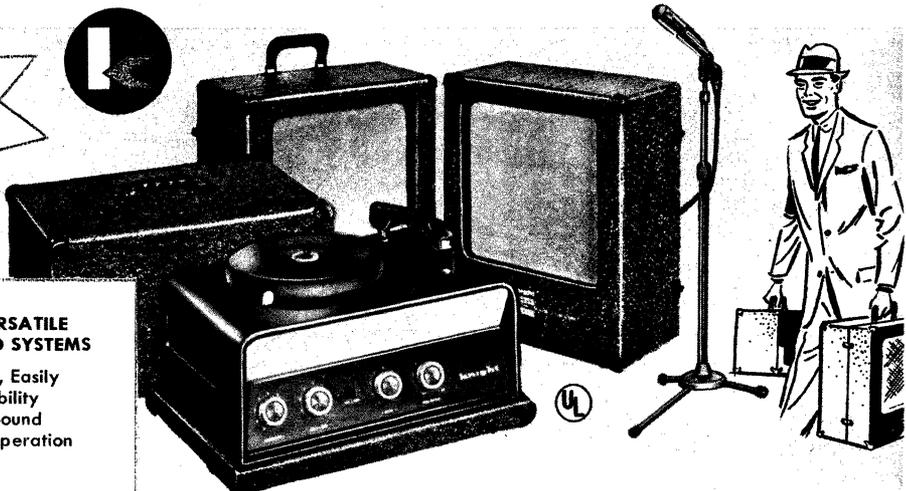
Give your P.A. equipment professional appearance and centralization by mounting Knight P.A. components in standard relay racks; everything you need is in these new panel kits! Handsomely finished in brushed chrome, easy to keep clean and new-looking. When your Knight units are mounted in this way, they will make a compact, integrated package, provide full ventilation. Matching blank panels also available. Each kit includes a brushed chrome dress panel, U-pan assembly, a full set of knobs, and hardware. See page 236 for standard relay racks.



Stock No.	Description	Height	Wt. Lbs.	NET
93 SX 058	For KN-3035 Amplifier	7"	6¾	14.95
93 SX 059	For KN-3032 Amplifier	7"	7½	14.38
93 SX 060	For KN-3060 Amplifier	7"	7½	14.55
93 SX 061	For KN-3061 Booster	8¾"	7½	14.10
93 SX 062	For KN-110 Deluxe Tuner	7"	6½	11.60
93 SX 063	Phono Drawer on Slides	10½"	14	19.65
93 SX 064	Blank Panel	3½"	3	5.40
93 SX 065	Blank Panel	5¼"	3½	5.85
93 SX 066	Blank Panel	7"	4¼	6.50
93 SX 067	Blank Panel	8¾"	4¾	6.90

SAVE ON COMPLETELY PORTABLE **knight** PUBLIC ADDRESS SYSTEMS

COVERS UP TO 2000 PERSONS



EXTREMELY VERSATILE PORTABLE SOUND SYSTEMS

- Set Up Quickly, Easily
- Excellent Portability
- Crystal Clear Sound
- Dependable Operation



TRAVELING DANCE BANDS



THEATER GROUPS



SCHOOL GATHERINGS

knight Deluxe 32-Watt All-Portable Sound System

Less Record Player

~~\$159.95~~

You Save \$23.33

- Powerful Amplifier Delivers Top Performance
- "Balanced Load"—For Fast, Easy Portability
- Heavy-Duty 12" Speakers Provide Clean Response
- Excellent Mike with Dynamic Cardioid Pattern

Combining power with versatility, this deluxe sound distribution system covers 90% of all portable P.A. requirements—and saves you over \$20.00 on the total price of the individual components if purchased separately. Two perfectly balanced carrying cases contain the entire system, making it easy to transport and set up in a jiffy. The system is offered with or without the top-mounted 4-speed record player.

SYSTEM INCLUDES: Knight KN-3032 32-Watt Amplifier, with or without Top-Mounted 4-Speed Record Player; Electro-Voice Model 664 Dynamic Microphone; Microphone Cable; Atlas CS-33 Microphone Floor Stand; and Two Heavy-Duty 12" Speakers, each rated at 25 watts, installed in a Carrying Case that comes apart to form two separate baffles for the speakers within.

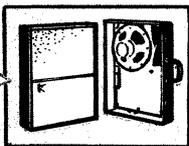
Use this system for musical background, sound-effects, or announcements. Set it up in minutes—it readily adapts itself to any job, big or small. Afterwards, it's quickly stored, ready for its next job. Ruggedly constructed for long, dependable service.

Wood cases have durable plastic brown-tweed finish—handsomely grained green grille. Each speaker has a 30-foot cord with plug attached. Speaker case is 19½x16x17"; amplifier case is 11½x17x12". Record player operates at 16⅓, 33⅓, 45, and 78 rpm; has ceramic cartridge with dual sapphire styli. System less record player is for operation from 110-120 volts, 50-60 cycle AC; system with record player installed is for operation from 110-120 volts, 60 cycle only.

ABOVE SYSTEM, LESS RECORD PLAYER. Includes components listed above; less record player for amplifier. Wt., 96 lbs. **51 PA 506. \$16.00 Down. NET. .159.95**

ABOVE SYSTEM, WITH RECORD PLAYER INSTALLED. Greatly increases versatility of P.A. system; permits playing of any recording at any speed. Ceramic cartridge used provides excellent, wide-range reproduction—unaffected by heat and humidity. Ideal for outdoor dances, carnivals and fairs, institutional use, churches, or general P.A. work indoors or out. Shpg. wt., 100 lbs. **51 PA 608. You Save \$23.63. NET. .178.95**

COVERS UP TO 2000 PERSONS



knight Standard 32-Watt Portable System

Less Record Player

~~\$124.95~~

You Save \$14.80

A complete, one case 32-watt portable P.A. system, packed with exclusive Knight features—at savings of \$14.80 over the price of individual components if purchased separately. Sets up quickly to provide truly superior P.A. performance; when the job is done, pick it up and pack it away easily—in one case! There are no loose items to carry around, yet everything you need is in the case: speakers, microphone, microphone floor stand, amplifier, cable—even a 4-speed record player, if desired!

SYSTEM INCLUDES: Knight KN-3032 32-Watt Amplifier, with or without the Top-Mounted 4-Speed Record Player; Electro-Voice 951 Crystal Cardioid Microphone; Atlas CS-33 Microphone Floor Stand; Mike Cable; and two powerful 12" P.A. Loudspeakers.

Carrying case separates into two separate baffles when opened. Speaker-amplifier case has attractive blue-green and ivory leatherette covering with matching plastic grille. HWD: 24½x18x11". System less player is for 110-120 v., 50-60 cycle AC; system with player is for 110-120 v., 60 cycle only.

ABOVE SYSTEM, LESS RECORD PLAYER. P.A. components listed above; less record player for amplifier. Shpg. wt., 71 lbs. **51 PA 510. Only \$12.50 Down. NET. .124.95**

ABOVE SYSTEM, WITH RECORD PLAYER INSTALLED. Same as above, but with 4-speed record player mounted on amplifier. Ceramic cartridge, installed in player, is unaffected by heat and humidity. System for general indoor or outdoor P.A. use. Shpg. wt., 75 lbs. **51 PA 607. You Save \$15.10. NET. .143.95**

RECOMMENDED BY  TO FIT YOUR NEEDS AND BUDGET



knight 16-Watt DeLuxe Portable P. A. System

- Less Record Player
- Compact—Easily Fits Into One Case
- Powerful, Advanced-Design Amplifier
- Two Heavy-Duty 12" Quam Speakers
- Wide-Range Mike with Floor Stand

Only \$10.00 Down

Here's a deluxe, portable 16-watt sound system that offers you plenty of power, maximum convenience and top dependability. You save \$8.77 over the cost of the individual components purchased separately! Everything is in a single case—there's nothing extra to carry or keep track of—the height of functional design. Ideal for auctioneers, salesmen, demonstrators, etc. The perfect answer to all medium coverage public address requirements.

SYSTEM INCLUDES: Knight KN-3116 16-Watt Amplifier, with or without Top-Mounted 4-Speed Record Player; Two Quam 12" Heavy-Duty P.A. Speakers; Atlas CS-33 Microphone Floor Stand; Astatic M332 Microphone; Knight Combination Speaker-Amplifier Case.

The Knight 16-watt amplifier features low-noise ECC-83 preamp tubes, and a convenient tape recorder output, which may be used in recording programs while P.A. system is in use. The case comes apart to form two independent baffles for the speakers. Handsome blue-green and ivory leatherette covering has matching plastic grille. HWD: 24½x18x11". System less record player is for 110-120 volts, 50-60 cycle AC; with player, 60 cycle only.

ABOVE SYSTEM, LESS RECORD PLAYER. Shpg. wt., 68 lbs. **99.95**
 51 PA 505. Only \$10.00 Down. NET. **99.95**
 ABOVE SYSTEM, WITH RECORD PLAYER INSTALLED. Record player has ceramic cartridge with dual sapphire styli. Shpg. wt., 73 lbs.
 51 PA 606. Only \$11.90 Down. NET. **118.95**

knight 8-Watt "Little Giant" Portable System

- ONLY
- Lightweight for Easy Portability
- Powerful, Compact Amplifier
- Smartly Styled, Humidity-Proof Mike
- Heavy-Duty 8" P.A. Speaker

\$5.50 Down

Small in size, but with a large "voice", this 8-watt "Little Giant" sound system is an unbeatable value in a portable P.A. system—it's a real favorite for small sound installations. Easy to operate, it sets up in a hurry! Surprisingly powerful, it combines unusually low cost with economical service and dependable operation. You save \$2.89 over total cost of components purchased separately.

Highly recommended for clubs and lounges, waiting rooms, stores, cafes, etc. Here's a practical choice for use in schools or other institutions where a number of groups must share the use of a single system. Everything you need fits into one compact case—carry it anywhere for instant, reliable use.

SYSTEM INCLUDES: Knight KN-3008 8-Watt Amplifier; Knight Speaker-Amplifier Case; Shure Model 215 "Starlite" Crystal Microphone; and Quam 8" Public Address Speaker.

The Knight 8-watt amplifier has an output jack to permit tape recording while it is being used for P.A. Shure's "Starlite" ceramic mike, with retractable wire stand, provides smooth response. The Quam heavy-duty speaker is designed for clear reproduction and dependable service. Constructed of sturdy lock-corner plywood, the Knight speaker enclosure is attractively finished in brown tweed and tan leatherette with matching plastic grille. For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 27 lbs.

51 PA 511. NET. **54.95**

LOW-COST ACCESSORIES FOR USE WITH YOUR P.A. SYSTEM



Argos PC-2 Changer Case

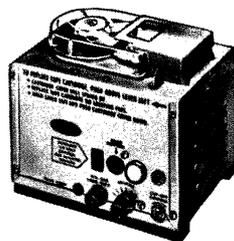
Lightweight, portable record changer case, pre-cut for Collaro TSC-740 record changer. Durable ¼" plywood construction with brass-finished reinforcements. Wear-resistant Tyrolylin covering is beautifully finished in contrasting brown and light tan. Height above mounting board, 6½". Size,

HWD: 10½x17x15¼". Shpg. wt., 16 lbs. **13.23**
 93 SX 554. NET. **13.23**
 93 SU 639. Changer Case with Blank Mounting Board. NET. **41.65**
 89 RU 521. Collaro TSC-740 Record Changer. 16 lbs. NET. **22.05**
 64 SC 398. E-V 26MDST Cartridge in Collaro Head. 3 oz. NET **22.05**

Pentron Tape Repeater

MODEL A-2. Highly efficient tape message repeater that provides a dynamic audio appeal—where and when you need it. Ideal for personnel instruction—permits operator to control flow of messages by pressing starter button. Plays from 1 to 55 minutes in duration. Speed: 3¼ ips. Complete with case. 7¼x6x6⅞". For 110-120 volts, 60 cycle AC. Shpg. wt., 8 lbs.

91 R 736. Only \$8.80 Down. NET. **87.95**
 MODEL SM-1 LOADED TAPE MAGAZINE. Standard magazine loaded with 200' tape. Record tape on any tape recorder. Wt. 2 lbs.
 91 R 741. NET. **7.50**



knight PORTABLE P.A.

EVERYTHING FITS IN THE CASE FOR EASY CARRYING... NO LOOSE EQUIPMENT TO LOSE OR MISPLACE



ALLIED-RECOMMENDED knight PAGING & MUSIC SYSTEMS

**SUPER
POWER
PAGING**



CAN BE
EXPANDED
TO
48
SPEAKERS

Convenient Grip-
to-Talk Stand

OPTIONAL PLUG-IN RECORD CHANGER

These paging and music distribution systems are also available with the high-quality Collaro TSC-740 4-speed record changer. Features: G.E. triple-play cartridge with diamond-sapphire styli. Specify choice of walnut, blonde or mahogany base.



**STANDARD
POWER
PAGING**



CAN BE
EXPANDED
TO
24
SPEAKERS

Convenient Grip-
to-Talk Stand

ADD AS MANY SPEAKERS AS YOU NEED



SPEAKER-BAFFLE COMBINATION. Deluxe 8" speaker with 70.7-v. output transformer and volume control—installed in mahogany finished wood baffle. Add as many speakers as you need (within the power limit of the amplifier) to meet your requirements. For wall mounting. 11x9⁹/₁₆x6¹/₈". 6 lbs. 93 D 703. NET.....16.95

knight 60-Watt Super-Power Paging Systems

NET

\$199⁹⁵

Only \$20.00 Down

- Use as Many as 48 Speakers
- For Private Offices or Classrooms
- Pre-Wired for Quick, Easy Assembly
- Grip-to-Talk, Slide-to-Lock Mike Stand

When you need a "big voice" for indoor paging—in a large office, industrial plant, stadium, auditorium or any other large area—you'll get dependable performance from this powerful Knight 60-watt paging system. Ready for quick, simple installation, it employs 6 speaker-baffles, each with separate volume control, for efficient sound dispersion and penetrating power. Using simple, easy-to-hook-up 70.7-v. output, you can also add on speaker-baffle units (up to 48) at any time. No soldering required—a screwdriver is all you need to connect your speaker cable.

System includes: Knight U.L. Approved 60-Watt Amplifier; Shure 520SL Microphone on Stand; 6 Speaker-Baffle Units. Less speaker cable, see page 204. For operation from 110-120 v., 60 cycle A.C. Shpg. wt., 84 lbs.

51 PA 503. You Save \$11.75. NET.....199.95

60-WATT SYSTEM AS ABOVE, WITH 12 SPEAKER-BAFFLE UNITS. 126 lbs. 51 PA 504. You Save \$33.45. NET.....279.95

60-WATT SYSTEM AS ABOVE, WITH 6 SPEAKER-BAFFLE UNITS AND COLLARO TSC-740 RECORD CHANGER ON BASE. Wt., 103 lbs. 51 PA 604. You Save \$31.23. NET.....249.95

60-WATT SYSTEM AS ABOVE, WITH 12 SPEAKER-BAFFLE UNITS AND COLLARO TSC-740 RECORD CHANGER ON BASE. Wt., 143 lbs. 51 PA 605. You Save \$52.93. NET.....329.95



PLANTS



SCHOOLS



OFFICES

knight 32-Watt Power Paging Systems

NET

\$124⁵⁰

Only \$12.45 Down

- May Be Used with up to 24 Speakers
- Pre-Wired for Quick, Easy Assembly
- Grip-to-Talk, Slide-to-Lock Mike Stand
- 1 Speaker per Average Room

Designed for medium power paging in moderately-sized offices, plants or schools. The Knight 32-watt standard-power paging system combines plenty of power with versatility of operation. Uses pre-wired speaker-baffle units—ready to connect to the 70.7-v. output—no soldering necessary for hook-up. Additional speaker-baffle units or trumpets may be added at any time. Easy, simple connections enable you to put this system into operation with a minimum of time and effort.

System includes: Knight 32-Watt Amplifier, U.L. Approved for operator safety; Shure 520SL Microphone on grip-to-talk stand; and 3 Speaker-Baffle Units. Less speaker cable, see page 204. For 110-120 v., 60 cycle A.C. Shpg. wt., 52 lbs.

51 PA 501. You Save \$11.30. NET.....124.50

32-WATT SYSTEM AS ABOVE, WITH 6 SPEAKER-BAFFLES. 73 lbs. 51 PA 502. You Save \$16.70. NET.....169.95

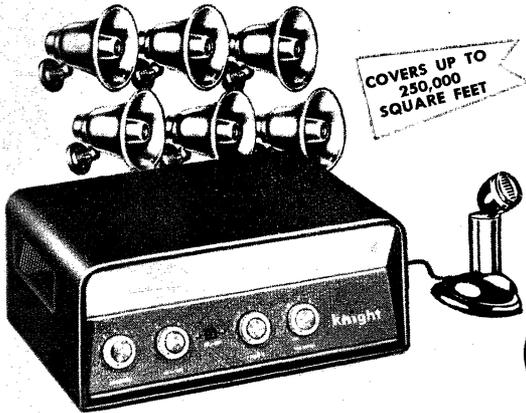
32-WATT SYSTEM AS ABOVE, WITH 3 SPEAKER-BAFFLE UNITS AND COLLARO TSC-740 RECORD CHANGER. Shpg. wt., 71 lbs. 51 PA 602. You Save \$30.78. NET.....174.50

32-WATT SYSTEM AS ABOVE, WITH 6 SPEAKER-BAFFLE UNITS AND COLLARO TSC-740 RECORD CHANGER. Shpg. wt., 92 lbs. 51 PA 603. You Save \$36.18. NET.....219.95

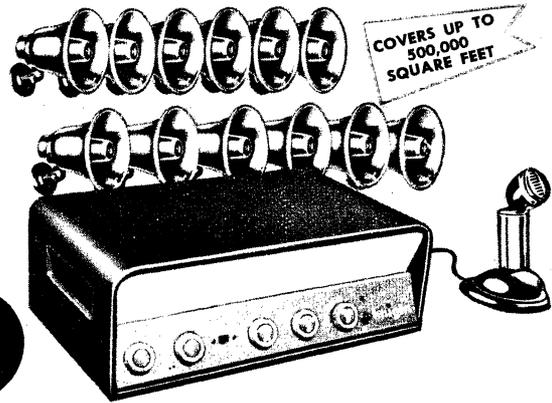
USE OUR FREE P.A. CONSULTING SERVICE

Knight P.A. systems have been selected to meet practically any P.A. need without modification. If you have some special requirements, we will be glad to quote you prices on variations of these systems, or to recommend one specially tailored to your needs. If you are in doubt about which system to choose, our audio specialists will aid you in making a selection. Write Allied's Sound Division giving a rough sketch of your floor plan and sound needs. Careful recommendations are promptly made.

IDEAL FOR PLANTS, OFFICES, STORES, SCHOOLS, AND HOSPITALS



COVERS UP TO
250,000
SQUARE FEET



COVERS UP TO
500,000
SQUARE FEET

knight 32-Watt Industrial Paging System

- May Be Used with as Many as 24 Speakers
- Ideal for Both Indoor or Outdoor Use
- Can Be Quickly and Easily Installed

NET

~~\$179.95~~

Only \$18.00 Down

This Knight 32-Watt Industrial Paging System is especially designed for rugged use. It's ideal for the moderately-sized plant, warehouse or institution. Offering maximum flexibility, the durable, weatherproof University trumpets can be installed practically anywhere—indoors or outdoors—and up to 15 feet away from the line-matching transformers. The Shure "Dispatcher" microphone, with grip-to-talk stand and the versatile Knight 32-Watt Amplifier assure instant readiness of operation.

This system can easily be expanded—you can add more trumpets or speaker-baffle units (see opposing page) at any time through the use of the simple, efficient 70.7-v. output. (Line-matching transformers required for trumpets.) Easily installed—microphone complete with connectors attached for quick assembly; your own plant electricians can route and connect your speaker cables and system is ready for operation—no expensive engineering required.

System includes: Knight 32-Watt Amplifier, U.L. Approved for operator safety; Shure Model 520SL Microphone with grip-to-talk stand; six University Model MIL Trumpets; and six Knight 70.7-V. Line-Matching Transformers and full instructions for hook-up. Less speaker cable (see page 204). For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 55 lbs.

51 PA 508. NET..... 179.95

ADD EXTRA TRUMPETS AS NEEDED



Need more trumpets? You can add them at any time to either of the systems above. In order to utilize simple 70.7-v. hook-up, use 1 Knight Line-Matching Transformer for each trumpet added. Determine wattage rating needed for each trumpet (maximum, 5 watts) and connect to appropriate terminals.

knight 60-Watt Industrial Paging System

- May Be Used with as Many as 48 Speakers
- Perfect for Overcoming High Noise Levels
- Ready for Quick, Simple Installation

NET

~~\$294.50~~

Only \$29.45 Down

Designed for that "big job" in public address, the Knight 60-Watt Industrial Paging system provides highly effective sound dispersion over large areas. Extremely desirable for large industrial plants, warehouses, carnivals, railroad yards, shipping docks, institutions, etc. Supplied complete with 12 weatherproof trumpets for ample indoor and outdoor coverage. This system offers you extreme flexibility for expansion.

You can very easily add up to 36 more speaker-baffle units (see preceding page) or trumpets at any time. Simple, effective 70.7-v. output arrangement enables you to do this without having to re-design existing arrangement. Trumpets require line-matching transformers (supplied) which may be mounted up to 15 feet away from trumpets. Everything is carefully selected and especially designed for the utmost simplicity—no engineering consultation necessary, no extra parts to buy—mike connectors, etc. are attached. Your own employees can install it in a minimum of time.

System includes: Knight 60-Watt Amplifier, U.L. Approved for operator safety; Shure Model 520SL Controlled Reluctance Mike on Stand (heat and humidity-proof mike, with grip-to-talk, slide-to-lock switch); twelve University MIL trumpets; and twelve Knight Line-Matching Transformers. Less speaker cable, see page 204. For 110-120 v., 50-60 cycle AC. Shpg. wt., 90 lbs. You save \$16.98 on this system! 51 PA 509. NET..... 294.50

UNIVERSITY MIL TRUMPET. Efficient 5-watt trumpet for addition to above systems. 5-watt reflex-type driver. Range, 400-13,000 cps. Impedance, 8 ohms. Shpg. wt., 3/4 lbs. 95 D 163. NET..... 15.29

KNIGHT 70.7-VOLT LINE-MATCHING TRANSFORMER. Shpg. wt., 1/4 lb. 62 G 081. NET..... 1.50

Budget-Priced knight Indoor-Outdoor 8-Watt Paging System

- Provides Efficient Coverage up to 10,000 Square Feet
- Highly Dependable Service at Exceptionally Low Cost
- Easy to Install—No Special Technical Skill Required

NET

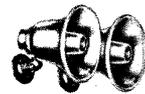
~~\$65.95~~

\$6.60 Down

KNIGHT 8-WATT INDUSTRIAL PAGING SYSTEM WITH MIL TRUMPETS. This high-quality system provides dependable paging operation at a low price. It's perfect for shipping and receiving docks—you can give instructions to trucks outside—even during inclement weather. Stores and offices can also utilize it to call for desired merchandise from basement or rear storerooms. These are only two of the many applications possible with this versatile indoor or outdoor system. No special or expensive engineering is required for installation—your own plant maintenance men can quickly and easily route and connect your speaker cables; system is ready for use in a minimum of time.

System includes: Knight 8-Watt Amplifier; two University MIL Trumpets; Shure Model 215 "Starlite" Microphone with built-in wire stand. For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 22 lbs. 51 PA 507. NET..... 65.95

KNIGHT 8-WATT INDUSTRIAL PAGING SYSTEM WITH SPEAKER-BAFFLE UNITS. As above, but with attractive speaker-baffles for indoor use. Have better tonal quality for good music reproduction—suitable for use in classrooms, etc. Wt., 39 lbs. 51 PA 500. Only \$5.88 Down. NET..... 58.75



MIL TRUMPETS
FOR
OUTDOOR-
INDOOR USE



SPEAKER-
BAFFLES FOR
INDOOR USE





knight INDOOR SYSTEMS FOR PERMANENT INSTALLATIONS

Outstanding Sound Systems for Auditoriums, Churches, Clubs, etc.



COVERS UP TO 2000 PERSONS

OPTIONAL RECORD CHANGER

COLLARO TSC-740. 4-speed changer. Has E-V ceramic turnover cartridge with .0007" diamond and .003" sapphire styli. Worth \$69.45 if purchased separately.



knight 32-Watt Deluxe Sound Systems

Less Phono

~~\$129.95~~

Only \$13.00 Down

Designed for medium-power applications—perfect for average-sized auditoriums, schools, churches and meeting halls. System price offers substantial savings over the total cost of individual components when purchased separately. System includes: Knight KN-3032 32-Watt Amplifier; Two 12" Speakers; Two Wall Baffles; Shure 55S Dynamic Microphone; Microphone Cable; Atlas CS-33 Microphone Stand.

The Knight 32-Watt amplifier has provisions for future plug-in expansion of the system. The controls and input jacks provided permit the addition of a radio tuner, tape recorder or extra microphone at any time. A special output jack lets you record the program on your present tape recorder without using a separate microphone for the recorder. The deluxe wood wall baffles are finished in walnut to fit most any decor; heavy-duty 12" speakers. The Shure 55S microphone is excellent for both voice and music. Has directional pick-up pattern. System includes 30-ft. speaker cables and plugs. Systems without phono or record changer are for 110-120 v., 50-60 cycle AC; those with either phono or record changer are for 60 cycle AC only. **LESS PHONO OR RECORD CHANGER. Save \$26.44. Wt. 72 lbs. 51 PA 515. Only \$13.00 Down. NET. \$129.95**

WITH 4-SPEED PHONO. Save \$26.74 System as described above, but with 4-speed record player mounted on amplifier case. Plays 16 $\frac{2}{3}$, 33 $\frac{1}{3}$, 45 and 78-rpm. Excellent for providing musical backgrounds for parties, theatrical performances, church events, etc. Gives your P.A. system much greater flexibility—makes it useful for many more occasions. Shpg. wt., 75 lbs. **51 PA 611. Only \$14.90 Down. NET. \$148.95**

WITH COLLARO TSC-740 CHANGER. Save \$43.38. Quality 4-speed automatic record changer. Features fully automatic intermixing of 7", 10", and 12" records. Pick-up arm complete with E-V MDS26 hi-fi cartridge with diamond needle. Mahogany, blonde or walnut base—specify choice. Shpg. wt., 74 lbs. **51 PA 601. Only \$18.00 Down. NET. \$179.95**

knight 16-Watt Permanent System

Less Phono

~~\$89.95~~

Only \$9.00 Down

You'll find exceptional value in this Knight 16-watt sound system for permanent installation. Although moderately priced, it offers outstanding performance, exceptional operating convenience and rugged dependability. Covers audiences of up to 10,000 persons and areas of up to 10,000 square feet. May be used with up to 15 speakers. You save \$14.73 over the cost of components purchased separately! System includes: Knight KN-3016 16-Watt Amplifier; Two Argos Wall Baffles; Two 12" Quam Heavy-Duty P.A. Speakers; Knight 3-Section Microphone Stand; Astatic M-332 Crystal Microphone.

The Knight KN-3016 16-Watt amplifier is perfect for smaller auditoriums, halls, church rooms, etc. Has phono fader control; tape output jack; other quality features. Wall baffles have mahogany finish. Astatic M-332 mike has all-directional pickup. Systems less phono or record changer are for 110-120 v., 50-60 cycle AC; those with phono or record changer are for 60 cycle AC only.

LESS PHONO OR RECORD CHANGER. Shpg. wt., 60 lbs. 51 PA 513. Only \$9.00 Down. NET. \$89.95

WITH 4-SPEED PHONO. Save \$14.98. Shpg. wt., 63 lbs. 51 PA 609. Only \$10.90 Down. NET. \$108.95

WITH COLLARO TSC-740 CHANGER. Save \$33.98. Mounted on Mahogany, blonde or walnut base—specify choice. Shpg. wt., 60 lbs. 51 PA 600. Only \$14.00 Down. NET. \$139.95

knight 8-Watt System With Wall Speaker

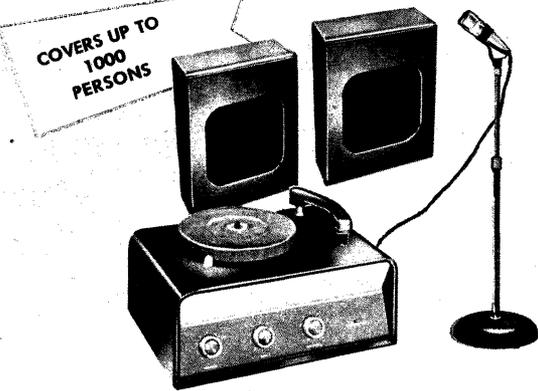
~~\$46.50~~

Only \$4.65 Down

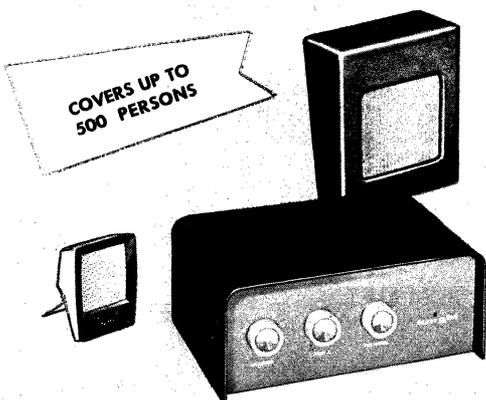
Ideal for smaller permanent sound installations, the Knight "Little Giant" wall-mounted P.A. system is excellent for clubs and lounges, classrooms, waiting rooms, stores, cafes, etc. Surprisingly powerful, it combines low cost with economical service and smooth, dependable operation. Loaded with features that make it perfect for hundreds of smaller P.A. applications. Versatile and unusually low in cost, it sets up in a jiffy—every component in this fine system has been carefully selected to give you the most for your P.A. dollar. Covers areas up to 5000 square feet and audiences up to 500 persons. System includes: Knight KN-3008 8-Watt Amplifier; Shure Model 215 "Starlite" Crystal Microphone; Quam 8" Heavy-Duty P.A. Speaker; and 8" Speaker Baffle.

The Knight 8-watt amplifier combines versatility and performance into one compact case. Shure's "Starlite" microphone has a built-in wire stand—converts into a self-supporting unit for use on any table or desk. The Quam 8" heavy-duty speaker delivers wide-range sound for voice or music. The plywood speaker-baffle is finished in dark brown leatherette with matching brown grille. For 110-120 v., 50-60 cycle AC. Shpg. wt., 22 lbs.

51 PA 512. Only \$4.65 Down. NET. \$46.50



COVERS UP TO 1000 PERSONS



COVERS UP TO 500 PERSONS

knight 25-WATT MOBILE SYSTEM

PROVIDES UNIVERSAL P.A. COVERAGE

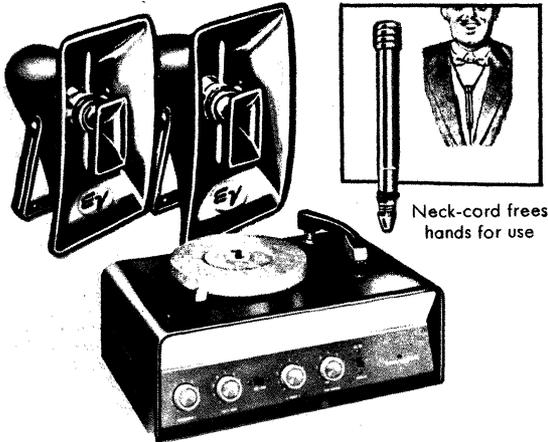
WORKS FROM 6-VOLT, 12-VOLT OR 110-VOLT POWER



For Cars, Trucks, etc.

Advertising

110-Volt AC Use



Neck-cord frees hands for use

knight Deluxe Mobile Sound System

\$199.95

Less Phono

The powerful and remarkably versatile Knight 25-watt mobile P.A. system gives you everything you need to handle "big crowd" events requiring full coverage of large areas. The system is made to order for hundreds of activities, both indoor and outdoor. An outstanding system which provides truly dependable mobile and stationary service for all occasions. And it's priced to bring you giant savings over the cost of the individual components if purchased separately.

You can set up this system in a jiffy and operate it anywhere—take power from any 6 or 12-volt automobile battery, or plug it into a 110-volt AC source. Works equally well from cars, trucks, buses, boats, as well as in offices, plants, theaters, etc. Area coverage is 85,000 square feet—and you can direct sound to the front or rear in mobile applications, or aim sound toward your audience when using the system indoors. Makes a perfect sound system for auctions, carnivals, outdoor athletic events, advertising promotions, electioneering, sales demonstrations, and for any group or organization now renting public address equipment.

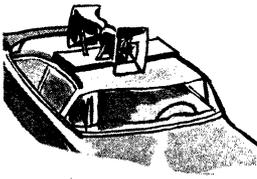
P.A. System includes: Knight 25-Watt Mobile Amplifier, with or without 4-speed record player installed atop its cabinet; two Electro-Voice Model 84BCDP Diffraction Projectors; Shure Model 535 Dynamic Microphone with 20-ft. cable and connector. The temperature and humidity-proof Model 535 dynamic mike is specially designed for P.A. use, and can be used for hand-held, desk or floor stand operation; convenient lavalier cord allows suspension of microphone from neck for free use of hands while driving. E-V's 84BCDP projectors are renowned for their "soundcasting" ability. Complete with 50 ft. of speaker cable. System operates from 6 or 12-volt DC or 110-130 v., 60 cycle AC.

LESS PHONO. Save \$39.92. Wt., 73 lbs.
51 PA 514. Only \$20.00 Down. NET. 199.95

WITH 4-SPEED PHONO. Save \$40.92. Wt., 76 lbs.
51 PA 610. Only \$21.90 Down. NET. 218.95

Car-Top Speaker Platform

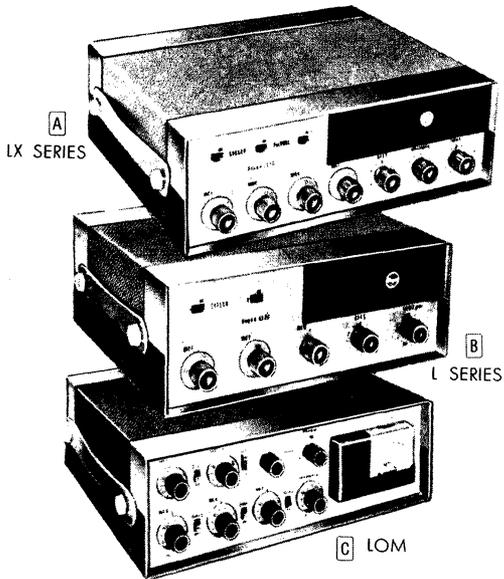
Exceptionally sturdy, weather-resistant and heavily varnished wood platform. Easily supports even the largest speakers. Attaches by four non-slip vacuum cups. Fits roof contour of any car. Secured with straps and anchored by rubber-insulated clips to rain gutter over car doors. Easily installed or removed. 7½x46". Shpg. wt., 9 lbs.
93 DX 220. NET. 6.45



Easy to Install

Bogen FLEX-PAK

PUBLIC ADDRESS EQUIPMENT



A LX SERIES

B L SERIES

C LOM

"DELUXE" 30 AND 60-WATT FLEX-PAK AMPLIFIERS

A Leaders in Bogen's "Flex-Pak" Series. Constant voltage output taps and 4 independently controlled mike channels (one convertible to phono). Black and gray finish.

Response: ±1.5 db, 20-20,000 cps. Distortion: Less than 2%. Hum: 60 db below rated output. Controls: 4—Gain; Mike-Phono switch; 2—Speech Filters: Off-On/Treble; Bass; Anti-Feedback. Output Imp: 4, 8, 16 ohms, balanced 25-v. line, 70-v. line. 5½x16¼x13". For 110-120 v., 50-60 cycle AC.
LX60 60-WATT AMPLIFIER. Shpg. wt., 37 lbs.
91 SU 710. List, \$290.00. NET. 174.00

LX30 30-WATT AMPLIFIER. Shpg. wt., 31 lbs.
91 SU 711. List, \$225.00. NET. 135.00

"SUPERB" 30 AND 60-WATT FLEX-PAK AMPLIFIERS

B Ideal amplifiers for high-quality P.A. work. Has 3 independently controlled microphone channels (one convertible to phono). Phono input is equalized for all cartridges. Black and gray case with leather handle.

Response: ±2 db, 20-20,000 cps. Distortion: Less than 2%. Hum: 60 db below rate dropout. Controls: 3—Gain; Mike-Phono switch; Speech Filter; Off-On/Treble; Bass. Output Impedances: 4, 8, 16 ohms, balanced 25-v. line, 70-v. line. 60-watt, 5½x16¼x13"; 30-watt, 5½x14¼x13". For 110-120 v., 50-60 cycle AC.

L60 60-WATT AMPLIFIER. Shpg. wt., 37 lbs.
91 SU 713. List, \$225.00. NET. 135.00

L330 30-WATT AMPLIFIER. Shpg. wt., 29 lbs.
91 SU 712. List, \$167.50. NET. 100.50

"FLEX-PAK" ACCESSORIES

Stock No.	Type	Description	Use With	Lbs.	NET
91 SX 715	LPA-4	Phono Top	L330	6	41.40
91 SX 717	LPB-4	Phono Top	LX60, LX30 L60 or LOM	6	41.40
91 SX 718	LK-1	Locking Plates	L330	2	4.65
91 SX 719	LK-2	Locking Plates	LX60, LX30 L60 or LOM	2	4.80
99 S 184	T-155	Plug-in Mike Transformer. 200 ohms		1	10.50

TYPE LOM PREAMP-CONTROL UNIT

C For critical P.A. or high-quality recording, 5 mike inputs (one convertible to phono). High-impedance output. Output: 30 mw at less than 2% distortion. Controls: 5—Gain; 4—Speech Filter, Mike-Tuner-Phono; Bass; Treble; Off-On/Master Gain. Response: ±1 db, 20-20,000 cps. Hum: 60 db below rated output. 5½x16¼x13". For 110-120 v., 50-60 cycle AC. 21 lbs.
99 SU 183. List, \$192.50. NET. 115.50

T 165 OUTPUT TRANSFORMER. 500-ohm. Wt., 1 lb.
91 S 700. List, \$17.50. NET. 10.50

ALLIED OFFERS YOU THE WIDEST CHOICE OF MICROPHONES



Here's how to choose the right microphone for your needs.

The data below is supplied to simplify selection of the proper mike for a specific application. If you need additional information, contact our free audio consulting service. Our experts will be glad to help you.

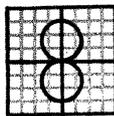
CRYSTAL, CERAMIC OR DYNAMIC

Crystal mikes are the most popular because of their low cost and wide frequency range. They are recommended for use only in temperate climates since they are permanently damaged by extremes of temperature or humidity. Ceramic mikes offer similar performance, but at lower output; ceramics withstand wide climatic variations.



Dynamic mikes feature smoother, peak-free response throughout their range, thus reducing the tendency towards feedback (howling) in P.A. systems. This also makes dynamics indispensable for high-quality professional use. They are less susceptible to damage from shock and extremes of temperature or humidity. For hi-fi home recording or better P.A. installations, your best values are the dynamic mikes in the \$40 to \$60 range.

All-directional mikes (also called omni and non-directional) receive sounds equally well from all directions. They are excellent for use in conference or studio work—require nearly complete acoustical control. All the new pencil-type microphones are all-directional. Bi-directional mikes pick up sound from the front and the back only. The most directive mike is the cardioid (uni-directional), which accepts sound from the front only. Used by singers, speakers, etc. where background noise pickup must be minimized. The cardioid is ideal for P.A. since it reduces feedback (howling) from the speaker system. Good crystal cardioids cost about \$30, good dynamic cardioids about \$50.



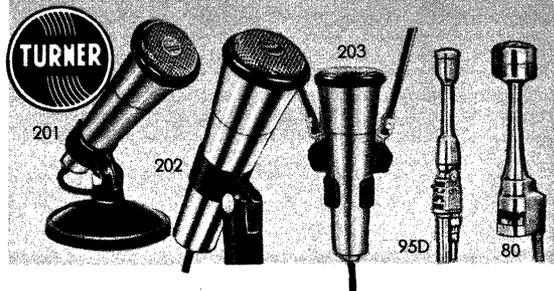
ABOUT STANDS AND CONNECTORS

All of the microphone stands listed on page 323 have 5/8"-27 threaded fittings. This is a standard thread that will fit any threaded mike or adapter. The microphone can be attached to either a desk stand or a floor stand, as required. All mikes are supplied less the connecting plug for attaching the cable to the amplifier. This is because the type of connector on the amplifier varies with manufacturer. The connectors mentioned in the descriptions of microphones on these pages connect the cable to the microphone. For a selection of solderless connectors which require only a screwdriver for attaching to mike cable, see page 322.



USING LONG MIKE LINES. Most P.A. equipment and tape recorders have high impedance inputs. A high impedance mike can be used with a cable up to 45 feet long. For longer lines, use a low-impedance mike and a line-matching transformer. Further details will be found in the free Allied Bulletin, "Installing Long Microphone Lines."

ABOUT DB RATINGS—The db ratings give you an idea of the relative sensitivity of the mike. Since the numbers are negative, -50 db will give a louder output than -55 db. The -45 to -48 db range is used with recorders costing under \$200; -52 to -60 for better P.A. and studio work.



Famous Turner Quality Microphones

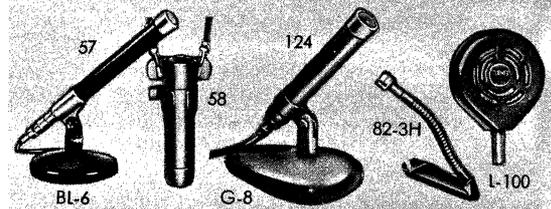
NEW 200 SERIES. Advanced design, high impedance microphones. Ideal for amateur, P.A., tape recording, etc. Rugged die-cast case finished in beautiful satin chrome. Available with choice of two types of elements: dynamic or crystal; and with choice of mounting accessories: lavalier, desk stand or floor stand adapter. All with 12-foot cable.

DYNAMIC MODELS. Response, 60-13,000 cps. Level, -53 db.					
Stock No.	Model	Accessory Supplied	Shpg. Wt.	List	EACH
93 S 390	201D	Desk Stand	1 lb.		
93 S 391	202D	Floor Stand Adapter	1 lb.	\$43.00	25.28
93 S 392	203D	Lavalier Assembly	1 lb.		

CRYSTAL MODELS. Response, 60-10,000 cps. Level, -51 db.					
Stock No.	Model	Accessory Supplied	Shpg. Wt.	List	EACH
93 S 393	201X	Desk Stand	1 lb.		
93 S 394	202X	Floor Stand Adapter	1 lb.	\$28.00	16.46
93 S 395	203X	Lavalier Assembly	1 lb.		

MODEL 95D DYNAMIC. Attractively styled, all-directional high impedance microphone. Response, 100-10,000 cps. Level, -58 db. 7 3/4"x1 1/8". With 20-ft. cable. Shpg. wt., 1 3/4 lbs.
99 S 526. List, \$37.50. NET 22.05

MODEL 80 CRYSTAL. Small, compact high impedance mike. Response, 80-7000 cps. Level, -54 db. Size, 4 1/4"x7/8". Supplied with 7 foot shielded cable. Shpg. wt., 9 oz.
99 S 525. List, \$15.95. NET 9.38



MODEL 57 DYNAMIC. All-directional. Response, 60-13,000 cps. 150 ohms or high impedance selectable. Level, -55 db. Size, 8 3/4"x1 1/8". Shpg. wt., 3 lbs.
99 S 505. List, \$65.00. NET 38.22

MODEL 58 DYNAMIC. All-directional lavalier type. Response, 60-13,000 cps. 150 ohms or high impedance selectable. Weighs only 3 1/2 oz. Level, -57 db. Size, 4x1" diameter. Complete with 25 foot shielded cable. Shpg. wt., 1 1/4 lbs.
99 S 503. List, \$57.00. NET 33.52

MODEL 124 DYNAMIC. Lightweight, all-directional; response, 50-13,000 cps. Level, -58 db. High impedance. Size, 6 1/2"x1 1/8". Shpg. wt., 1 1/4 lbs.
99 S 507. List, \$49.00. NET 28.81

MODEL 82-3H CRYSTAL. Model 80 (listed above) mike on special "hands free" chest holder. Fully adjustable flexible gooseneck. With 20-foot shielded cable. Shpg. wt., 1 1/2 lbs.
99 S 529. List, \$22.75. NET 13.38

L-100 CRYSTAL. Microphone with lapel clip. Response, 50-10,000 cps. High impedance. Level, -52 db. 2x1 1/8". Wt., 1/2 lb.
99 S 527. List, \$12.50. NET 7.35

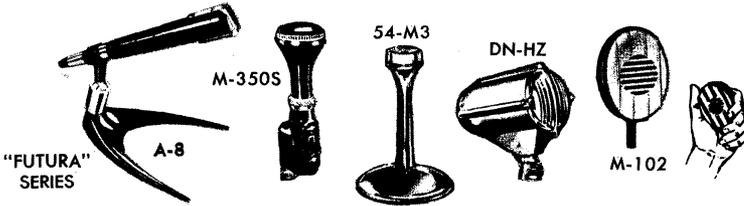
MODEL 98 DYNAMIC. Response, 65-11,000 cps. Cardioid pattern minimizes feedback. High impedance. Front-to-back ratio, 20 db. Level, -52 db. 6 1/2"x1 1/2"x1". Shpg. wt., 2 lbs.
99 S 509. List, \$59.50. NET 34.99

MODEL 142 DYNAMIC. Low-cost lavalier. All-directional. 70-12,000 cps. High impedance. Level, -59 db. 4x1". Wt., 1 1/4 lbs.
94 S 095. List, \$45.00. NET 26.46

POPULAR MIKE STANDS. All desk-type, except "3rd Hand" holder, as supplied with Model 82-3H mike.

Stock No.	Mfrs. Type	For Use With	Wt., Lbs.	List	NET
99 S 506	BL-6	Model 57	1	\$7.50	4.41
99 S 508	G-8	Model 124	1	8.00	4.70
99 S 518	G-7	Model 98	1	8.00	4.70
94 S 080	3-H*	Model 80	1	5.00	2.94

FAMOUS ASTATIC MICROPHONES



"FUTURA" SERIES DYNAMICS. Beautifully designed dynamic microphones with all-directional pick-up. Impedances can be internally selected without special tools. Employ tough "Mylar" "pop" and "blast" proof diaphragm; die-cast head assembly. Complete with $\frac{5}{8}$ "-27 swivel thread adapter for desk or floor stand mounting; lavalier assembly complete with belt clip and 20-ft. shielded cable for "walk-around" use.

MODEL 788 "METRO". Response, 50-13,000 cps. Impedance and level: 150 ohms, -55 db; high impedance, -55 db. Off-On switch can be locked in "On" position. Size, $8\frac{7}{8}$ x $1\frac{3}{8}$ ". Shpg. wt., 12 oz.
99 S 413. List, \$79.50. NET..... 46.74

MODEL 888 "TEMPO". Response, 50-15,000 cps. Impedance and level: 50 ohms, -57 db; 200 ohms, -58 db; high impedance, -56 db. Size, $9\frac{1}{32}$ x $1\frac{1}{4}$ ". $1\frac{1}{2}$ lbs.
99 S 414. List, \$110.00. NET..... 64.68

MODEL 988 "VOGUE". Exceptionally uniform response, 40-20,000 cps. Impedance and level: 50 ohms, -57 db; 150 and 250 ohms, -58 db. $9\frac{1}{32}$ x $1\frac{1}{4}$ ". $1\frac{1}{2}$ lbs.
99 S 416. List, \$150.00. NET..... 88.20

A-8 DESK STAND. For above. $\frac{5}{8}$ "-27. $1\frac{1}{2}$ lbs.
94 S 031. List, \$8.25. NET..... 4.85

MODEL M-3505 "DYNAMIKE" DYNAMIC. Smart, compactly styled high-impedance mike. Has 360°, all-directional pickup. Wide range response, 50-10,000 cps. Output level, -56 db. Complete with Off-On switch; interchangeable plug-socket connector, $\frac{5}{8}$ "-27 mounting, 18' cable. Shpg. wt., 1 lb.
99 S 419. List, \$46.50. NET..... 27.34

MODEL M-350 "DYNAMIKE" DYNAMIC. Same as above, less switch. Wt., 1 lb.
99 S 418. List, \$41.50. NET..... 24.40

MODEL 54-M3 "UNIVERSAL" CRYSTAL. All-directional mike. Response: 30-10,000 cps. Level, -51 db. With base. Wt., 2 lbs.
99 S 426. List, \$17.95. NET..... 10.55

MODEL DN-HZ "COMMENTATOR" DYNAMIC. Rugged all-directional high impedance mike. Level, -55 db. Response, 50-7000 cps. Standard $\frac{5}{8}$ "-27 thread mounting, 10-ft. cable. Shpg. wt., 2½ lbs.
99 S 304. List, \$39.70. NET..... 23.15

MODEL M-102 "ECONOMIKE" CRYSTAL. Low-cost high-impedance mike. Designed for hand-held use. Frequency response: 30-10,000 cps. Output level, -46 db. With 5-ft. shielded cable. Wt., $1\frac{1}{2}$ lbs.
99 S 442. List, \$9.70. NET..... 5.70



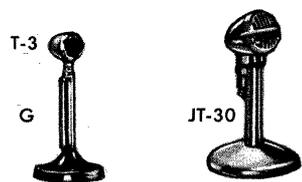
Adjustable 90° Swivel

New Model 77 Cardioid Mike

- Positive, Anti-Feedback
- Uniform From 30-15,000 cps

High fidelity uni-directional dynamic cardioid microphone. Features extremely high front-to-back cancellation of 18 db, for highest resistance to pickup from the rear—prevents feedback. Essentially flat frequency response, 30 to 15,000 cps. Operates efficiently and dependably under all ordinary conditions in hot or cold climates—may be used outdoors as well as indoors. "Pop" and "blast-proof" Mylar diaphragm is impervious to moisture, humidity, solvents and oils. Has output level of -52 db. Incorporates Off-On switch with "lock-on" feature. Multi-switch impedance selector: "L", 30 to 50 ohms; "M", 150 to 250 ohms; and "H", high impedance.

Equipped with standard $\frac{5}{8}$ "-27 thread. Smooth non-reflecting satin chrome finish with black grille liner cloth. Size, $8\frac{1}{2}$ x $2\frac{1}{4}$ x $2\frac{5}{8}$ ". With 20-foot 2-conductor shielded cable. Shpg. wt., 3 lbs.
93 S 269. List, \$82.50. NET..... 48.51

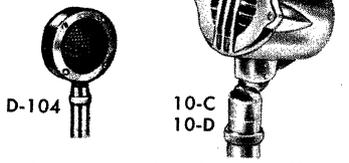


MODEL T-3 "PIONEER" CRYSTAL. Attractive all-directional high impedance microphone. Has metal seal crystal for protection against moisture and humidity. Frequency response, 30-10,000 cps. Level, -51 db. Handy swivel hinge for tilting head. Standard $\frac{5}{8}$ "-27 mounting thread. 15-ft. cable included. Shpg. wt., 2 lbs.
99 S 300. List, \$29.30. NET..... 17.23

MODEL G STAND. For use with T-3, DN-HZ, D-104, and other mikes. $\frac{5}{8}$ "-27 thread. Has convenient grip-to-talk, slide-to-lock switch. Supplied with 6-foot shielded cable. Shpg. wt., $2\frac{1}{4}$ lbs.
94 S 011. List, \$24.95. NET..... 14.67

MODEL JT-30 "SPOKESMAN" CRYSTAL. Budget-priced, high-quality microphone. High impedance. Frequency response, 30-10,000 cps. Output level, -50 db. With handle and interlocking base. Mike threaded $\frac{5}{8}$ "-27. 12-ft. cable. Shpg. wt., $2\frac{1}{2}$ lbs.
99 S 302. List, \$18.40. NET..... 10.82

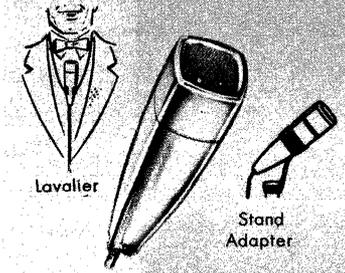
MODEL JT-30C "SPOKESMAN". Same as above, but with ceramic element—resists extremes in temperature and humidity. Level, -54 db. With 5 feet of shielded cable. Shpg. wt., 2 lbs.
99 S 422. List, \$18.90. NET..... 11.11



MODEL D-104 "PREMIER" CRYSTAL. High impedance mike. Popular among amateurs. Frequency response, 30-7,500 cps. Output level, -45 db. Produces the maximum amount of speech in the voice range. Metal sealed to protect crystal from moisture. Standard $\frac{5}{8}$ "-27 mounting thread. Supplied complete with 5-ft. shielded cable. Shpg. wt., $1\frac{3}{4}$ lbs.
99 S 309. List, \$31.00. NET..... 18.23

MODEL 10-C CERAMIC. New "tailored-response" microphone for amateur use, as well as industrial paging, etc. Frequency response of 300-3000 cps make it ideal for SSB or AM use. Provides more talk power with less splatter. High impedance, semi-directional ceramic element will withstand temperature range of -40° F. to +300° F. and is immune to extremes of humidity. Output level, -54 db. Includes F-11 socket and cable connector with $\frac{5}{8}$ "-27 thread. 5' cable. Shpg. wt., $1\frac{1}{4}$ lbs.
93 S 298. List, \$29.70. NET..... 17.46

MODEL 10-D DYNAMIC. Same "tailored response" mike as above, but with high-impedance dynamic element. Response: 300-3000 cps; level, -54 db. Complete with F-11 adapter and 5-ft. shielded cable. Shpg. wt., $1\frac{1}{4}$ lbs.
93 S 299. List, \$39.70. NET..... 23.34



Lavalier Stand Adapter

Slim Crystal Microphones

MODEL M-332. Low-cost high fidelity crystal microphone. Ideal for all-around, general purpose use, such as tape recording, Public Address, and communications work. Can be used indoors or outdoors. Beautifully styled, with satin chrome, pressure-cast housing and contrasting black satin grille. All-directional; high input impedance. Uniform and smooth frequency response, 30 to 15,000 cycles. Output level, -57 db. Supplied complete with lavalier cord assembly for convenient, "no-hand" carrying. Also has stand adapter for $\frac{5}{8}$ "-27 mounting thread. Complete with 8-ft. shielded cable. Overall size, $4\frac{1}{2}$ x $1\frac{1}{4}$ x $1\frac{1}{4}$ ". Shpg. wt., 1 lb.
94 S 091. List, \$17.90. NET..... 10.53

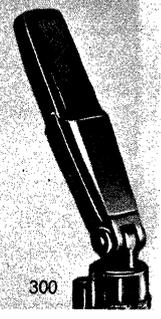
MODEL M-332-S. Same high quality crystal microphone as above with same specifications, but with built-in Off-On switch. Complete with lavalier cord assembly, $\frac{5}{8}$ "-27 stand adapter and 8 feet of shielded cable. Shpg. wt., 1 lb.
94 S 094. List, \$19.90. NET..... 11.70

ALLIED SUPPLIES QUALITY MICROPHONES FOR EVERY PURPOSE

From budget-priced general purpose microphones to the finest of broadcast studio microphones—you'll find them all at Allied. Just look over the wide selection on these and the following pages for the ones you need.



MICROPHONES FOR EVERY PURPOSE



Cardioid-Pattern Microphones

A cardioid microphone (Unidirectional) has a heart-shaped pickup pattern. It is far more sensitive at its front than rear; front-to-rear sensitivity ratio is 7 to 1. Permits a P.A. system to be operated at a higher volume before acoustic feedback occurs.

"UNIDYNE" DYNAMIC MICROPHONE

MODEL 55S. Rugged, cardioid dynamic microphone designed to withstand severe mechanical shock as well as heat and moisture. Cardioid feature permits placement of microphone at a distance from performer 75% greater than all-directional microphones. An excellent choice as a singer's or announcer's microphone. Response from 50 to 15,000 cps. Switch selects impedances of 35-50 ohms, 150-250 ohms, and high impedance. Output is -57 db at high impedance. Swivel mounting. Satin chrome finish. 5/8"-27 thread. Detachable, 18-ft., 2-conductor shielded cable. Size, 4x2 1/2x3 1/4". Shpg. wt., 4 1/4 lbs. 99 S 395. List, \$83.00. NET.....48.80

MODEL 556S. Deluxe version of above. Constructed and tested within extremely close tolerances to give improved frequency response and directivity. Smooth response from 40 to 15,000 cps. Live rubber isolation unit in stand connector deadens vibrations from floor. With Cannon XL-3. Shpg. wt., 4 1/2 lbs. 99 S 396. List, \$135.00. NET.....79.38

"MONOPLEX" CRYSTAL MICROPHONE

MODEL 737A. High output, cardioid, crystal microphone. Cardioid features (above) make this a superior, moderate cost microphone in P.A. and tape recording applications. Head tilts to change pickup to all-directional. Crystal element is sealed against adverse effects of moisture. Output is -53 db, high impedance. Response: 60 to 10,000 cps. Satin chrome finish, 5/8"-27 thread. Detachable, 15-ft. shielded cable. Size, 4x3 3/4x1 7/8". Shpg. wt., 2 1/4 lbs. 99 S 380. List, \$46.00. NET.....27.05

Uni-Directional Ribbon Mikes

MODEL 333. An ultra-cardioid microphone made to extremely rigid tolerances and designed for the ultimate in wide response and directional characteristics. Ribbon element. Response: ± 2.5 db from 30 to 15,000 cps. Minimizes pickup of moving props, scuffing feet, and other background noises. Has Voice-Music switch; also 3-position switch to select 50, 150 or 250-ohm impedance. Output, -60 db. Has wind and blast filter, and live rubber isolation unit in stand connector. 5/8"-27 thread. Non-reflecting bronze finish, 3 1/4x1 1/4x1 3/4". Detachable, 20-ft. shielded cable with Cannon XL-3. Wt., 4 lbs. 99 S 456. List, \$250.00. NET.....147.00



MODEL 330. "Unitron" mike, similar to above. Less Voice-Music switch; satin-chrome finish. Shpg. wt., 4 lbs. 94 S 090. List, \$120.00. NET.....70.56

Bi-Directional Microphones

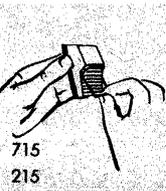
Figure "8" pattern permits picking up sound from front and rear while rejecting sound from the sides. Ideal for radio and recording studios and for fixed installations on lecterns, pulpits, etc.



"CONCERT-LINE" RIBBON MICROPHONES

MODEL 300. Deluxe Bi-directional microphone. Shock mount; Voice-Music switch. Response, ±2.5 db from 40 to 15,000 cps; 30-50 ohms, 150-250 ohms and high impedance. Output is -57 db at high impedance. Bronze finish, 5/8"-27 thread. Detachable, 18-ft. shielded cable with Cannon XL-3. 6x1 1/4x1 3/4". Wt., 3 3/4 lbs. 99 S 397. List, \$150.00. NET.....88.20

MODEL 315. As above, but less rubber shock mount and Voice-Music switch. Frequency response, 50-12,000 cps. Output, -57 db. Satin-chrome finish. Shpg. wt., 3 1/4 lbs. 99 S 398. List, \$89.50. NET.....52.63



51 "SONODYNE" DYNAMIC

Mike for recorder and P.A. use. Immune to effects of temperature and humidity. Frequency response, 60-10,000 cps. Multi-impedance; 35-50 ohms, 150-250 ohm, and high impedance, selected by screwdriver adjustment. Output, -52 db. Satin chrome finish. 5/8"-27 thread. Swivel mount. Detachable, 15-ft., 2-cond. shielded cable. 5 1/4x3 1/2x2 1/8". Shpg. wt., 3 1/2 lbs. 99 S 378. List, \$49.50. NET.....29.11

707A CRYSTAL MICROPHONE

Popular, low-cost, semi-directional microphone. Ideal for amateur radio, home recording, etc. Response from 30 to 7000 cps. Output is -50 db, high impedance. Gray enamel finish with chrome trim. 5/8"-27 thread. Size, 2 3/8" dia., 3 1/4" long, 7-ft. cable. Shpg. wt., 2 lbs. 99 S 361. List, \$19.50. NET.....11.47

MODEL 520 "GREEN BULLET"

Controlled-magnetic version of above. Response, 100 to 9000 cps. Output, -52.5 db; high impedance. Green enamel with chrome trim. 5/8"-27 thread. Size, 2 3/8" diameter, 3 1/4" long, 7' cable. Wt., 1 1/2 lbs. 99 S 383. List, \$22.50. NET.....13.23

"STARLITE" MICROPHONES

MODEL 715. Extremely popular, high-output crystal microphone featuring smart, ultra-modern design. Has a semi-directional pickup pattern and smooth response. Ideal for Amateur communications, home recording of voice and music, and inexpensive paging, intercom or public address systems. Comfortably fits in palm of hand. Has a retractable, built-in wire stand that easily converts microphone into a self-supporting unit for table-top or desk. Extremely lightweight; only 3 1/2 ounces. Output, -50 db, high impedance. Frequency response, 60-10,000 cps. Handsomely styled, impact-resistant, polystyrene case with two-tone finish; gray front and black back; black grille. Overall size, 3 5/8x2 3/16x1 1/2". 5-ft., single-conductor shielded cable. Shpg. wt., 1 1/2 lbs. 94 S 089. List, \$8.00. NET.....4.70

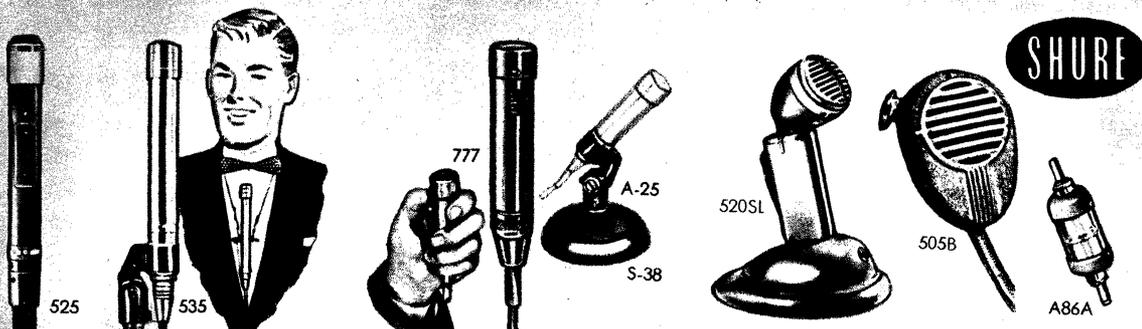
MODEL 215. Smartly styled, modernistic ceramic microphone. Practically immune to moisture and high temperatures. Semi-directional pickup pattern; provides smooth response. Features built-in wire stand described above. Output, -56.5 db. Response, 60-10,000 cps. Black front, gray back. Polystyrene case. 3 5/8x2 3/16x1 1/2". 5' single-conductor shielded cable. 1 1/2 lbs. 94 S 088. List, \$8.00. NET.....4.70

"COMMANDO" MICROPHONES

MODEL 415. Slim-grip, controlled-magnetic, high-impedance mike. Has all-directional pick-up pattern. Response, 60-10,000 cps. Output level is -55 db. Rugged, die-cast metal case is satin-chrome finished. Polystyrene cap is gray. With 5/8"-27 adapter, and 7-ft., single-conductor, non-detachable shielded cable. 6 1/8" long, dia. of head, 1 3/4"; dia. of handle, 1 1/8". Wt. 1 lb. 94 S 085. List, \$27.50. NET.....16.17

MODEL 420. All-directional, controlled-magnetic lavalier mike. Frequency response from 60 to 10,000 cps. Output is -55 db. Dual impedance; 150-to-250 ohms and high impedance. Gray finish polystyrene case, 20-ft., 2-cond., shielded cable, and lavalier cord with clip. 3 1/4x1 1/8". 1/2 lb. 94 S 086. List, \$30.00. NET.....17.64

MODEL 430. All-directional, controlled-magnetic mike with press-to-talk switch. Response, 60-10,000 cps. Output, -55 db. Dual impedance; 150-to-250 ohms and high impedance. Satin-chrome, die-cast metal case. Detachable, 15-ft. 2-cond. shielded cable. 6 1/8" long; dia. of head, 1 3/4"; dia. of handle, 1 1/8". With cover plate (may be attached for "On" operation), 5/8"-27 adapter. Wt., 1 1/2 lbs. 94 S 087. List, \$38.50. NET.....22.64



All-Directional Microphones



Respond equally well to sounds from all directions (360°) in a plane perpendicular to the axis of the microphone. Ideal for soloists, orchestras, stage productions, etc. Their small diameter makes them especially suitable for use where microphone must be hand held; or for lavalier use (suspended from neck). Also called omni-directional.

MODEL 525 STUDIO MICROPHONE

All-directional, professional dynamic microphone. Dynamic range of 125 db. Response, ± 2.5 db from 40 to 15,000 cps. Switch selects impedance of 50, 150 and 250 ohms. Output, -61 db at all impedances. Case is bronze; head is beige. With neckcord for lavalier use, belt-clip, A-25 swivel adapter for $\frac{5}{8}$ "-27 thread stands, and detachable 20-ft. shielded cable with Cannon XL-3. $8\frac{1}{2}$ " long and $1\frac{1}{4}$ " diam. Wt., $3\frac{1}{4}$ lbs.

99 S 454. List, \$200.00. NET.....117.60

MODEL 535 SLENDYNE MICROPHONE

Moderately-priced, all-directional dynamic microphone. Especially suitable for public address applications. 60-13,500 cps. Built-in switch for selecting output impedances of 50-250 ohms, and high impedance. Output, -61 db. With swivel adapter, $\frac{3}{8}$ "-27 thread. Detachable, 18-ft., 2-conductor shielded cable with Cannon XL-3. $1\frac{1}{8}$ " diameter and $7\frac{1}{2}$ " long. Shpg. wt., 3 lbs.

99 S 657. List, \$72.50. NET.....42.63

MODEL S36A STREAMLINED DESK MOUNT

Fits all Shure connector-type mikes. Not for use with Shure Series 505, 100, 76B and 420. Smart, streamline styling. Similar to base of 520SL, above right. Shpg. wt., $1\frac{1}{4}$ lbs.

94 S 035. List, \$6.50. NET.....3.82

MODEL 777 "SLIM-X" MICROPHONE

Multiple-purpose crystal microphone. Can be worn as a lavalier, hand-held or mounted on floor or desk stand (see S-38 and A-25 below). For P.A. use, singers, etc. In vertical position pickup pattern is all-directional. Response, 60-10,000 cps. Output, -62 db. High impedance. Satin-chrome finish. Detachable, 7-ft. cable. With neck-strap and holder for $\frac{3}{8}$ "-27 thread stands. Size, $4\frac{3}{8}$ "x1". Shpg. wt., 1 lb.

99 S 616. List, \$25.00. NET.....14.70

MODEL 777S. Same as above, but with On-Off switch. Shpg. wt., 1 lb.

99 S 617. List, \$27.00. NET.....15.88

S-38 BASE. For above. Wt., $1\frac{1}{2}$ lbs.

94 S 038. List, \$4.50. NET.....2.65

MODEL A-25 SWIVEL ADAPTER. Fits S-38 stand above. $\frac{3}{8}$ "-27 thread. Swings 90° in vertical plane. Wt. 8 oz.

94 S 039. List, \$5.50. NET.....3.23

Communications Microphones

MODEL 520SL "DISPATCHER." Ruggedly built, controlled-magnetic microphone. Designed to handle the most severe field requirements of paging and dispatching systems. Supplied with base. Includes soft-action grip-to-talk, slide-to-lock switch bar that operates microphone and relay circuits. Response, 100-9000 cps. Output, -52.5 db. High impedance. Chrome and green finish. 7-ft., 2-conductor shielded cable. $9\frac{1}{2}$ " high; 5" base. Shpg. wt., 5 lbs.

99 S 388. List, \$45.00. NET.....26.46

MODEL 505B "RANGER". Controlled-magnetic mike. Die-cast case. Gives excellent voice reproduction. 100-9000 cps. Output, -50 db at 250 ohms. Blue-gray finish. With mounting bracket and 5-ft. 4-cond. cable. $3\frac{3}{4}$ "x $2\frac{3}{4}$ "x $1\frac{1}{8}$ ". $1\frac{1}{4}$ lbs.

99 S 392. List, \$32.00. NET.....18.81

MODEL 505C. Similar to 505B, but high impedance. Output, -50.5 db. With 5-ft. 3-cond. (one cond. shielded) cable.

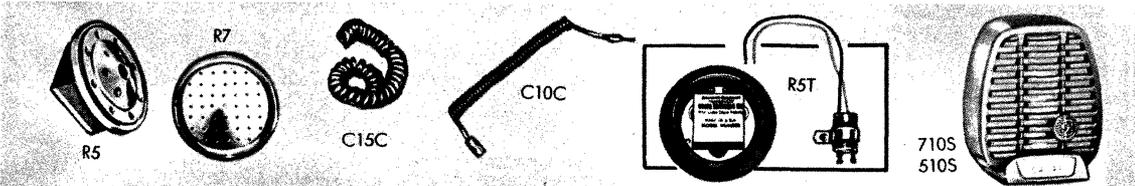
99 S 389. List, \$32.00. NET.....18.81

MODEL 505T. Similar to 505B, but with built-in transistor preamp. 200-4000 cps. Output, -1 db at 500 ohms. Requires 6 v. DC. With C15C cable. $1\frac{1}{2}$ lbs.

94 S 417. List, \$48.50. NET.....28.52

MODEL A86A TRANSFORMER. For running lines from low-imp. mikes to high-imp. inputs. Matches 35-50 or 150-250 ohms. ± 1 db. 20-20,000 cps. $2\frac{7}{8}$ "x $1\frac{1}{8}$ ". 2 lbs.

41 S 917. List, \$17.50. NET.....10.29



REPLACEMENT PARTS AND CONVERSION KITS

MODEL R5 MICROPHONE CARTRIDGE. High-impedance, controlled-magnetic type. Response, 100-9000 cps. Output, -51.5 db. Fits Shure mikes: 505, 510 and 520. May be used for modification of almost any crystal microphone to magnetic type. Depth $2\frac{1}{2}$ " dia; with mtg. ring, $2\frac{1}{4}$ " dia; less ring, $1\frac{3}{8}$ ". Shpg. wt., 4 oz.

41 S 934. List, \$11.00. NET.....6.47

MODEL R7 MICROPHONE CARTRIDGE. High-impedance crystal type. High output and very smooth response. Response, 50-10,000 cps. Output, -50 db. Used in Shure 707A, 708A and most other Shure crystal mikes. Depth, $\frac{3}{8}$ " dia; with rubber ring, $2\frac{3}{8}$ " dia; less ring, $1\frac{3}{32}$ ". 5 oz.

41 S 945. List, \$8.25. NET.....4.85

MODEL C15C RETRACTING MICROPHONE CORD. Heavy, rubber-covered 4-conductor (not shielded) cable for use in mobile transmitters, etc. Extends to length of 5-ft.; only 1-ft. long when retracted. Color-coded wires with tinned ends. Replaces cables in the following Shure mikes: CB10, CB10B, CB10D, CB10F, CB12, CB12A, CB12C, CB15, CB15B, CB15C, CB15D, and all "100" series. Shpg. wt., $\frac{1}{2}$ lb.

41 S 932. List, \$6.25. NET.....3.67

NEW MODEL R5T MICROPHONE CONVERSION KIT. Converts any Shure hand-held communications mike—or any microphone having similar dimensions—into a rugged, high-intelligibility, controlled-magnetic mike. Kit consists of a controlled-magnetic cartridge and a transistor preamp.

Reduces background noise and provides maximum dependability—an excellent choice for police, taxi, marine, amateur, and commercial two-way radio systems now employing carbon-type microphones.

Output, -4.0 db at 500 ohms. Recommended applied voltage, 6 v. DC. Requires a screwdriver, long-nose pliers and soldering iron for quick installation. With instructions. Shpg. wt., $\frac{1}{2}$ lb.

94 S 418. List, \$25.00. NET.....14.70

MODEL C10C RETRACTING MICROPHONE CORD. Tinsel-coiled microphone cord. Ideal for use with any dynamic or magnetic microphone where a shielded cable will prevent the pickup of hum. Extends to length of 6 ft.; only 1 ft. long when retracted. Cord has trimmed and tinned leads and comes supplied with Amphenol MC4M connector attached. Shpg. wt., $\frac{1}{2}$ lb.

94 S 439. List, \$12.00. NET.....7.06

LOW-COST MICROPHONES

MODEL 710S "REX". Low-cost, semi-directional crystal microphone for home tape recorders, Amateur radio, etc. Response, 60-9000 cps. Output is -50 db, high impedance. Off-On switch, 7-ft. cable. Hand-some burgundy-red metallic finish. Size, $3\frac{3}{8}$ "x $2\frac{1}{8}$ "x $1\frac{1}{8}$ ". $\frac{5}{8}$ "-27 thread adapter. Shpg. wt., $1\frac{1}{4}$ lbs.

99 S 387. List, \$14.00. NET.....8.23

MODEL 710A "REX". Same as Model 710S microphone described above, but without Off-On control switch.

99 S 386. List, \$12.00. NET.....7.05

MODEL 510S "HERCULES". Semi-directional controlled-magnetic microphone for use in areas where heat and humidity are high. Ideal for public address, home recording, etc. Excellent for both indoor and outdoor use. Response, 100-7000 cps. Output is -52.5 db, high impedance. Off-On switch, 7-ft. cable. Green metallic finish. Size, $3\frac{7}{8}$ "x $2\frac{1}{8}$ "x $1\frac{1}{2}$ ". $\frac{5}{8}$ "-27 thread adapter. Shpg. wt., $1\frac{1}{2}$ lbs.

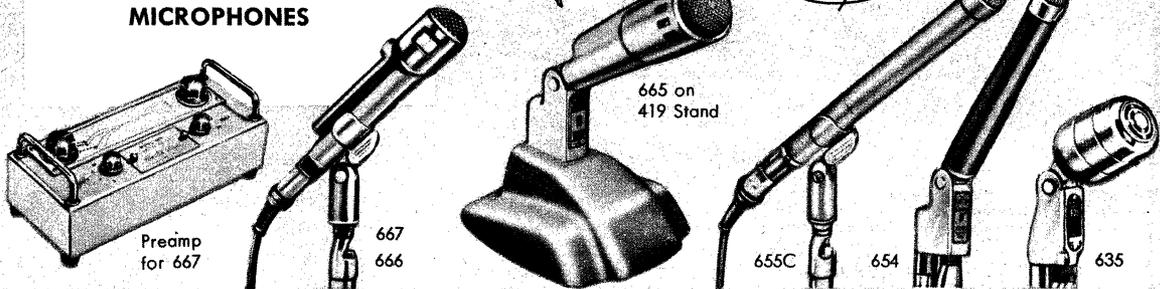
99 S 385. List, \$19.00. NET.....11.11

MODEL 510C "HERCULES". As above, but without Off-On control switch.

99 S 384. List, \$17.00. NET.....9.99

Electro-Voice

BROADCAST AND TV MICROPHONES



Variable "D" Cardioid Dynamic Mikes

MODEL 667. Widely used in network TV, the Model 667 is ideal for all applications requiring critically uniform frequency response, high resistance to shock, or where high ambient noise or severe reverberation exists. It is supplied with a special transistor preamplifier providing twenty frequency response characteristics, individual bass and treble control, and four levels of attenuation. Sound enters three apertures in the microphone case, and is then combined in such a way as to assure extremely smooth frequency response and total absence of "proximity effect." Response is uniform, 35 to 16,000 cycles. Output level, variable, -30 to -48 db. Designed to work into 250, 150 or 50 ohm circuits. Noise level is -123 dbm; dynamic range at maximum gain setting is 120 db. Microphone is 1 3/4 x 7 1/2"; preamp, 9 x 3 7/8 x 3 1/2". Supplied with 50-ft. and 20-ft. broadcast-type cables and connectors, 1/2" pipe thread with 3/8"-27 adapter. Shpg. wt., 4 lbs.

94 SU 093. List, \$600.00. NET. **352.80**

MODEL 666. Superior dynamic microphone for important broadcast and TV applications; variable "D" construction produces effective cardioid pattern—discriminates against unwanted sound from sides and rear. Response is substantially flat from 30 to 16,000 cps; average front-to-back ratio, 24 db. Output level, -55 db; adjustable to 50, 150 or 250 ohms, 1 3/4 x 7 1/2". Supplied complete with clamp-on adapter for 1/2" and 3/8"-27 stands and detachable 20-ft., 3-conductor shielded cable. Shpg. wt., 1 lb.

99 S 593. List, \$255.00. NET. **149.94**

MODEL 366. BOOM SHOCK MOUNT. For 666 or 667. Wt., 12 oz.

94 S 057. List, \$40.00. NET. **23.52**

MODEL 524 WIND SCREEN. For 666 or 667. Minimizes wind effect during boom movement or when mike is used outdoors. Wt., 2 oz.

94 S 083. List, \$8.00. NET. **4.70**

MODEL 665. Similar in design and function to Model 666 mike, but for less exacting applications. Response, 40 to 15,000 cps. Output, -55 db. Recessed switch permits quick selection of 50 or 250 ohms. Dia., 1 1/8"; 7 3/8" long, 18-ft., 3-conductor shielded cable and adapter for 1/2" and 3/8"-27 stands. Shpg. wt., 2 lbs.

99 S 530. List, \$150.00. NET. **88.20**

Famous "Slim Trim" Dynamic Studio Mikes

MODEL 655C. "Slim-Trim" dynamic mike for highest quality professional recording and broadcasting. Wide frequency response, all-directional pickup range, and lightweight (only 7 oz.), make it ideal for TV staging and audience participation. Breath-blast filter head. Response is essentially flat from 40 to 20,000 cps. Output level, -55 db. Quickly changed impedances of 50, 150 and 250 ohms (connected for 50 ohms when shipped) on terminal board in case. Cast aluminum case is non-reflecting gray. Dia., 1 1/8"; 10 3/8" long. With clamp-on adapter for 1/2" and 3/8"-27 stands; detachable, 20-ft., 3-conductor, shielded cable. Shpg. wt., 1 1/4 lbs.

99 S 579. List, \$200.00. NET. **117.60**

MODEL 654. Moderately priced mike, similar to 655C, but for less critical applications. All-directional. Response, 50 to 15,000 cps. Output, -55 db. Switch selects 50 or 250-ohm impedances. Diameter, 1 3/32"; 10 1/16" long. 3/8"-27 thread. With detachable, 18-ft., 3-conductor shielded cable. Shpg. wt., 1 1/4 lbs.

99 S 583. List, \$100.00. NET. **58.80**

RUGGED TV & BROADCAST DYNAMIC MIKE

MODEL 635. Sturdily built and low in price, the Model 635 has a reputation as a studio "workhorse." Response is uniform, 40 to 15,000 cps. Level, -55 db. Recessed switch selects 50 or 250-ohm impedances. Cast zinc, chrome-plated case. 3/8"-27 thread. Dia., 2"; 6 1/4" long. With detachable, 18-ft., 3-cond. shielded cable. Shpg. wt., 1 3/4 lbs.

99 S 327. List, \$82.00. NET. **48.22**

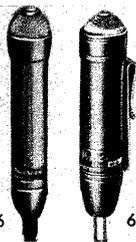
DESK STANDS FOR PROFESSIONAL MICROPHONES

MODEL 419. Illustrated above with 665 mike. For use with 665, 664 and 654 microphones. Shpg. wt., 3 lbs.

94 S 082. List, \$10.00. NET. **5.88**

MODEL 420. Similar to 419 desk stand, with clamp for mounting 666, 655C, 646 and 647 microphones. Shpg. wt., 4 lbs.

94 S 056. List, \$20.00. NET. **11.76**



Professional Lavalier Dynamic Mikes



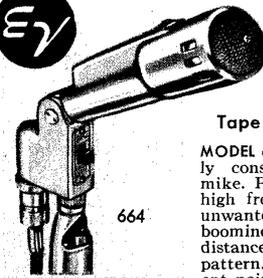
Neck Cord

MODEL 646. All-directional, TV and broadcast dynamic mike. This unusually small, 7-oz. mike can be hung from neck, hand-held, used in desk stand or suspended from boom. Particularly suitable wherever concealment of mike, mobility, or freedom of hands is desired. Response, 50-10,000 cps. Recessed screw high-frequency adjustment. Output level, -57 db. Lathe-turned aluminum case in non-reflecting gray. Dia., 1"; 6 1/4" long. With 30-ft. cable, carrying bag, neck cord, belt clip. Shpg. wt., 1 lb.

99 S 584. 50-Ohm Impedance. List NET **86.73**
99 S 537. 250-Ohm Impedance. Each, \$147.50. EACH. **86.73**

NEW MODEL 649A. An ultra-small lavalier mike—only 3/4" in diameter and 3 7/8" long. Weighs only 3 ounces. Response, 60 to 12,000 cps. Output, -60 db. Low-impedance—works into 50-250 ohm inputs. All other specs same as Model 646. With 30-ft. cable, carrying bag, neck cord and belt clip. Shpg. wt., 1 lb.

93 S 476. List, \$105.00. NET. **61.74**



Variable "D" Dynamic Microphone

For Finer Public Address, Tape Recording & Communications Use

MODEL 664. Skillfully designed and ruggedly constructed, uni-directional dynamic mike. Picks up from front only—provides high front-to-back discrimination against unwanted sounds, without close-talking boominess. Employs variable "D" (variable distance) construction to produce cardioid pattern. Highly useful for PA where ambient noise and severe reverberations exist.

Gives distinct, natural reproduction of voice and music—increases working distance from microphone—provides greater protection against feedback problems. Equipped with a "pop-proof" wire mesh grille, the 664 minimizes wind and breath blasts—excellent for outdoor public address use in fixed or mobile installations. Diaphragm is shielded from dust and magnetic particles.

Rugged construction and use of non-metallic diaphragm permits smooth response over a wide frequency range. Withstands high humidity, temperature extremes and severe mechanical shock.

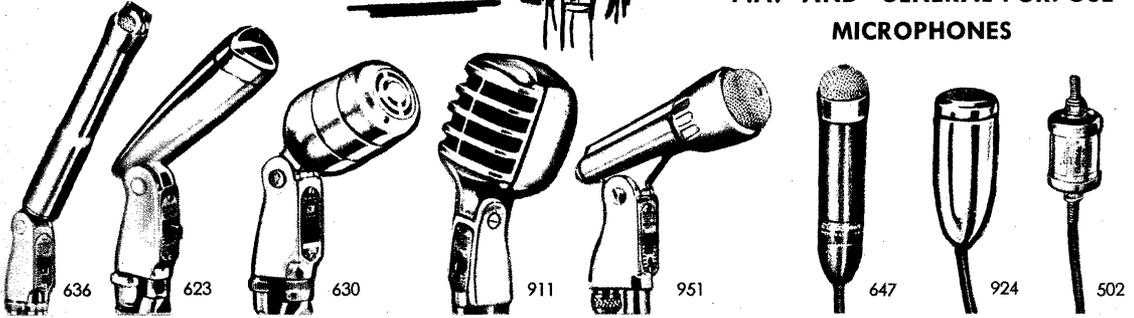
Virtually indestructible under normal use. Can be used on floor or desk stand, or carried in the hand. Frequency response from 40 to 15,000 cps. Output level, -55 db. Has 150-ohm and high-impedance output. Supplied wired for high impedance. 3/8"-27 thread. Cast zinc case, finished in glistering chrome. Complete with on-off switch; and detachable, 18-ft., 2-conductor cable. Diameter, 1 7/8"; 7 3/8" long. Shpg. wt., 2 lbs.

99 S 531. List, \$85.00. NET. **49.98**



Electro-Voice

P.A. AND GENERAL-PURPOSE MICROPHONES



All-Directional Microphones

MODEL 636 "SLIMAIR" DYNAMIC. A very fine all-directional mike for tape recording. Provides excellent reproduction of individual and group singers and speakers; choirs, orchestras, etc. Also can be used for public address—"baton" styling does not hide the speaker's face. Wire mesh blast-filter permits outdoor use. 90° swivel. Response, substantially flat from 60 to 15,000 cps. 150-ohm or high impedance (connected for high-impedance output when shipped). Output level, -55 db. Chrome-plated steel case. 1 1/4" dia., 10 1/4" long. 3/8"-27 thread. On-off switch. With detachable, 18-ft. 2-conductor shielded cable. Shpg. wt., 2 lbs.

99 S 581. List, \$72.50. NET..... **42.63**

MODEL 636G. As above, but finished in gold.

99 S 591. List, \$77.50. NET..... **45.57**

MODEL 623 SLIM DYNAMIC. Low-cost, all-directional dynamic mike. Ideal for P.A., recording and communication use. Slim size makes it inconspicuous and easy to handle. Smooth response from 60 to 12,000 cps. Output level, -56 db. Choice of 150-ohm or high-impedance output (connected for high-impedance when shipped). On-off switch. Chrome-plated. Dia., 1 1/8"; 7 1/2" long. 5/8"-27 thread. With detachable, 18", 2-cond. shielded cable. Wt., 2 lbs.

99 S 595. List, \$57.00. NET..... **33.52**

MODEL 630 HIGH-OUTPUT DYNAMIC. All-directional mike designed for public address, dispatching call systems, industrial applications, recording and general communications service. Uniform response from 60 to 11,000 cps. Output level, -55 db. Choice of 250-ohm or high-impedance output. 250-ohm mike supplied with detachable 18-ft., 2-cond. shielded cable; high-impedance mike with detachable 18-ft., single-cond. shielded cable. Chrome-plated. On-off switch. Dia., 2"; 6 1/4" long. 3/4"-27 thread. Shpg. wt., 2 lbs.

99 S 347. 250-Ohm Impedance. List NET

99 S 336. High-Impedance. Each, \$52.50 EACH..... **30.87**

MODEL 911 "MERCURY" CRYSTAL. For low-cost P.A. applications, home recording, Amateur communications, etc. All-directional pickup pattern becomes slightly directional with increased frequency. Response, 50 to 9000 cps. Output level -50 db. High-impedance output. Chrome-plated case, 2 3/8x3 1/8x6 3/4" long. 5/8"-27 thread. With 18-ft. detachable cable. Shpg. wt., 2 1/2 lbs.

99 S 554. List, \$32.50. NET..... **19.11**

Mobile Communication and Intercom Microphones

MODEL 648 DYNAMIC. Extremely versatile, all-directional microphone. For broadcast, TV, intercom, paging or P.A. use. Built-in connector and mating 3/8"-27 threaded adapter allow mounting on rigid or flexible booms, desk or floor stand. Response is uniform from 50 to 10,000 cps. Output, -58 db. Impedance, 250 ohms. Aluminum case; non-reflecting gray. Dia., 1"; 6 1/8" long. With adapter and 2 wrenches. Less cable. Shpg. wt. 1/2 lb.

99 S 539. List, \$56.00. NET..... **32.93**

MODEL 448 SWIVEL BOOM MOUNT. For use only with Model 648 mike. Holds mike 11 7/8" off mounting surface. Male connector matches connector on mike. 62° elbow bend. Extends 4" below mtg. surface. 2 1/2" dia. mtg. base. Chrome-plated. 1 1/2 lbs.

99 SX 540. List, \$24.00. NET..... **14.11**

MODEL 606 DIFFERENTIAL DYNAMIC. For intercom use. Close-talking, noise-cancelling. Head is fixed at 22° angle. Response, flat from 100 to 5000 cps. Output level at 1/2", -55 db. High impedance. Chrome-plated case, 2x3 1/4x2 1/2". 5/8"-27 thread. With detachable 18-ft. cable. Wt., 2 lbs.

99 S 564. List, \$52.50. NET..... **30.87**

MODEL 600D DYNAMIC. Extra-rugged, hand-held microphone for mobile P.A. and communication use. Semi-directional pickup pattern. Response is flat from 100 to 7000 cps. Output level, -55 db. High impedance. Has press-to-talk switch for mike and relay control. Black phenolic case, 2 1/2x2x4". 5-ft. cable. Wt., 10 oz.

99 S 323. List, \$47.50. NET..... **27.93**

MODEL 210KK SINGLE-BUTTON CARBON. Similar in appearance to the Model 600D but single-button carbon. Provides highly intelligible speech transmission for mobile communication use. Output, -50 db. Black phenolic case. With 5' cable. 1 lb.

99 S 589. List, \$35.00. NET..... **20.58**

MODEL 205KK DIFFERENTIAL CARBON. Close-talking, noise-cancelling, single-button carbon mike. Provides maximum intelligibility under high noise conditions. Blastproof, waterproof, and shock-resistant. Response, when held close to sound source, 100 to 4000 cps. Output level at 1/4", -50 db. Press-to-talk switch. Black phenolic case, 2 1/2x2 1/2x4". With mounting bracket, 5-ft. coiled 3-cond. cable. Shpg. wt., 1 lb.

99 S 590. List, \$45.00. NET..... **26.46**

Crystal Cardioid Microphone

MODEL 951. Excellent crystal microphone using exclusive variable "D" principle to achieve cardioid directivity and uniform frequency response. Designed to fulfill requirements of wide-range reproduction under a wide variety of P.A. applications; pop-proof wire mesh grille minimizes wind and breath noises. Uniform polar response makes it highly suitable for noisy locations, or where much echo is present. Response, 50 to 11,000 cps. Output level, -55 db. Handsome satin-chrome finish, die-cast zinc case. Size, 1 3/4x5 3/8". With 18 ft., shielded, single-conductor cable. Shpg. wt., 1 1/2 lbs.

94 S 092. List, \$49.50. NET..... **29.11**

Lavalier Microphones

MODEL 647 DYNAMIC. Small, ruggedly designed all-directional mike for general P.A. use. Extremely versatile—can be hand-held, suspended from neck, used on desk stand or suspended from boom. Excellent wherever concealment, mobility or free use of hands is desired. Peak-free response from 60 to 10,000 cps. Output level, -57 db. 150-ohm or high impedance. Black aluminum with chromium trim. Dia., 1"; 5" long. Supplied complete with neck cord, belt clip, 2 wrenches and detachable, 18-ft. 2-conductor cable. Shpg. wt., 1 1/4 lbs.

99 S 538. 150-Ohm Impedance. List, NET

99 S 585. High-Impedance. Each, \$82.50 EACH..... **48.51**

MODEL 924 CRYSTAL. Ultra-small, all-directional mike for P.A., home recording, paging and Amateur radio use. Response, 60 to 8000 cps. Output, -60 db. High-impedance. Chrome-plated. 1 3/8" dia., 3 3/4" long. With neck cord, clip, 18-ft. cable. 12 oz.

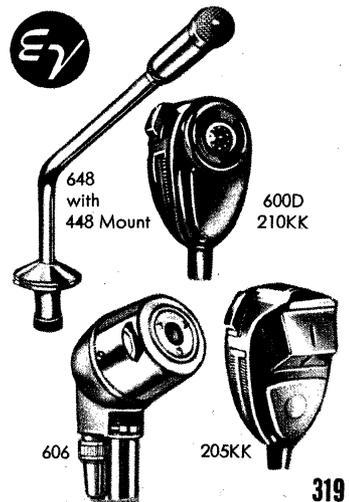
99 S 594. List, \$20.00. NET..... **11.76**

MODEL 418 DESK STAND. Similar to Model 419 illustrated on opposite page. For 951, 911, 636, 635, 630 and 623 microphones. Cast iron, gray finish. Shpg. wt., 4 lbs.

94 S 059. List, \$10.00. NET..... **5.88**

MODEL 502 MATCHING TRANSFORMER. Allows connecting long-line, low-impedance mikes to amplifiers with high-impedance input. Supplied complete with connector and 2-ft. single cond. cable. Shpg. wt., 1 lb.

94 S 084. List, \$17.50. NET..... **10.29**

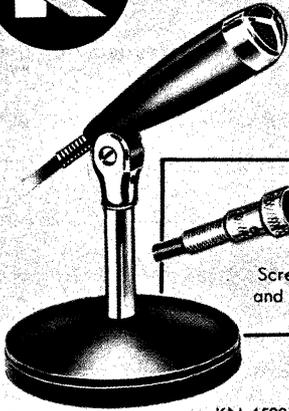




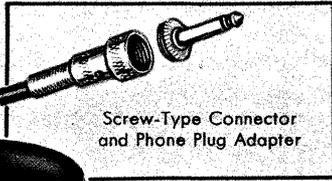
knight

LATEST MICROPHONES AND

knight KN-4500 Dynamic Microphone



BUDGET-PRICED DYNAMIC MICROPHONE



Screw-Type Connector and Phone Plug Adapter

KN-4500

- Includes Attractive, Matching Desk Stand
- High-Quality Dynamic Element Provides Excellent Voice and Music Reproduction
- Screw-Type Connector & Phone Plug Adapter
- Fits All Mike Floor Stands on Page 323

An unexcelled value in an all-directional, high-fidelity dynamic microphone. The low-cost, versatile Knight KN-4500 mike comes equipped with desk stand, 10-ft. cable, screw-type connector and phone plug adapter. It can be readily connected to 90% of all tape recorders—standard-thread base ($\frac{3}{8}$ "-27), allows it to be quickly and easily connected to any standard microphone floor stand.

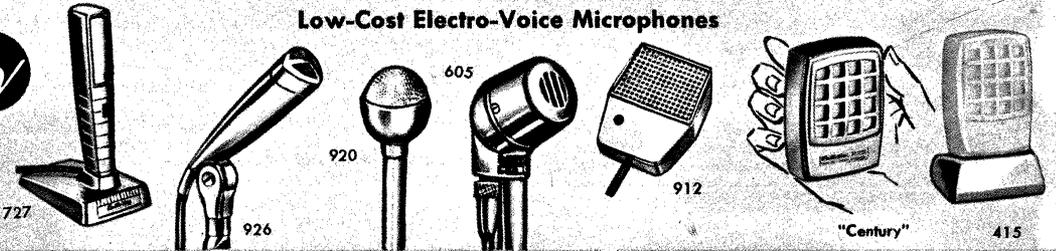
The omni-directional pick-up pattern and wide frequency response of the KN-4500 make it perfect for such general purpose applications as paging and P.A. use, home recording, lecture work, recording of conferences, panel discussions, etc. Its moving-coil dynamic element is virtually indestructible and highly resistant to humidity. Rugged, die-cast metal housing.

Wide-range response, from 60 to 12,000 cps assures natural reproduction of both voice and music. High-impedance output. Size, $1\frac{1}{2}$ "x $1\frac{1}{2}$ "; tip-proof, die-cast base is $\frac{5}{16}$ " in diameter. Strikingly styled in gold and black. Shpg. wt., 4 lbs.

94 S 097. NET..... 24.95



Low-Cost Electro-Voice Microphones



NEW MODEL 727 CERAMIC. Response, 60-8000 cps; with removable desk stand and floor stand adapter. High impedance. Output level, -55 db. All-directional response, tending to directional at high frequencies. $7\frac{7}{8}$ "x $1\frac{1}{2}$ "x $1\frac{1}{4}$ ". Supplied with 5-ft. cable. Shpg. wt., $1\frac{1}{2}$ lbs.
93 S 226. List, \$18.00. NET..... 10.58

MODEL 926 CRYSTAL. Response, 60-8000 cps. Rising frequency characteristic for crisp reproduction of speech, $6\frac{3}{4}$ "x $1\frac{1}{8}$ ". 18-ft. cable. Shpg. wt., $1\frac{1}{2}$ lbs.
99 S 596. List, \$29.50. NET..... 17.35

MODEL 920 "SPHEREX" CRYSTAL. 60-7000 cps; all-directional. Minimum breath "pop". Output, -50 db. Size, $2\frac{1}{4}$ " diameter. 18-ft. cable. Shpg. wt., 1 lb.
99 S 578. List, \$27.50. NET..... 16.17

MODEL 605 DYNAMIC. Rugged, all-directional microphone; 65-8000 cps. Size, 2 "x $3\frac{3}{4}$ " long. 18-ft. cable. Shpg. wt., 1 lb.
99 S 592. List, \$32.50. NET..... 19.11

MODEL 912 CRYSTAL. Plastic-cased; safe for use with AC-DC units. Response, 70-7000 cps. 5-ft. cable. Wt., 1 lb.
99 S 598. List, \$10.00. NET..... 5.88

"CENTURY" SERIES. Popular for home recording, paging and P.A. Inner element insulated for safe use in AC-DC circuits. $\frac{5}{8}$ "-27 stand adapter; 5-ft. cable, 1 lb.

MODEL 715 "CENTURY" CERAMIC. Humidity-proof ceramic element; output, -55 db. Response, 60-7000 cps. High impedance. Size, 3 "x $2\frac{3}{8}$ "x $1\frac{1}{8}$ ".
99 S 586. List, \$13.00. NET..... 7.65

MODEL 715-S "CENTURY" CERAMIC WITH "ON-OFF" SWITCH. Incorporates the same fine construction as the Model 715 at left, but is equipped with slide-to-talk, On-Off switch. Ideal for conference use, home tape recording, paging systems, etc. Heat-and-humidity proof ceramic element. Same specs as the Model 715.
93 S 227. List, \$15.00. NET..... 8.82

MODEL 615 "CENTURY". Dynamic type. For rugged use; response, 80-8000 cps. High impedance; output, -55 db.
99 S 549. List, \$25.50. NET..... 15.00

MODEL 415 DESK STAND. For "Century" microphones. Holds mike at 15° tilt for desk use. Shpg. wt., 6 oz.
94 S 050. List, \$1.75. NET..... 1.03

Contact-Type Microphones for Musical Instrument Amplification

Contact mikes permit amplification of sound from a single instrument, by attaching directly to its sounding board or body. Excellent supplementary microphones for recording or amplification of solo piano, cello, guitar and similar instruments.

A AMPERITE MODEL SKH. Hi-Z magnetic; response, 40-9000 cps. Output, -40 db. $\frac{3}{4}$ "x 3 "x $1\frac{1}{2}$ ". 12-ft. cable. Shpg. wt., 10 oz.
99 S 406. List, \$12.00. NET..... 7.06

B AMPERITE MODEL KKH. As above, but has volume control.
99 S 408. List, \$18.00. NET..... 10.58

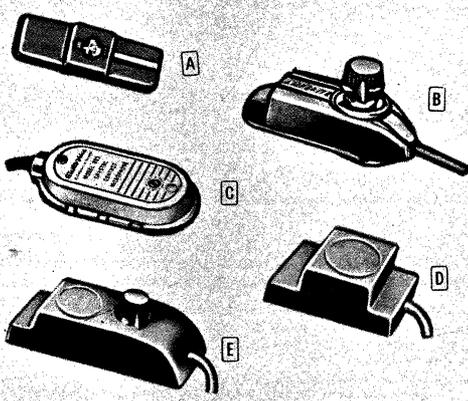
KONTAK STRAP. (Not illus.) For mounting Amperite SKH or KKH on flat-top guitars. Wt., 4 oz.
41 S 902. NET..... 59c

C E-V MODEL 805. 100-5000 cps. Hi Z. 15-ft. cable. 10 oz.
99 S 319. List, \$20.00. NET..... 11.76

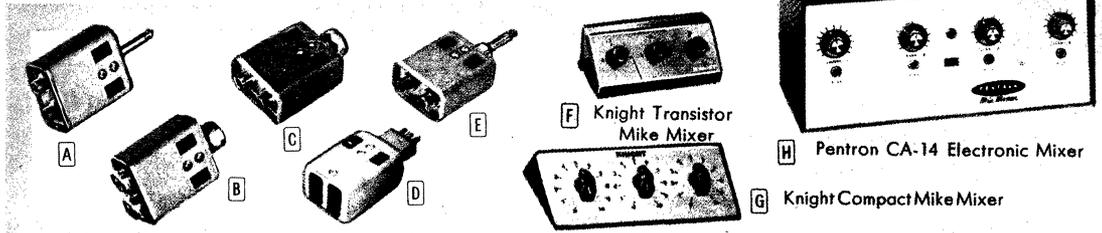
D KNIGHT CONTACT MICROPHONE. An unusual value. Response, 50-10,000 cps. High-impedance magnetic type. With 12-ft. cable and screw-type connector. Shpg. wt., 1 lb.
99 S 517. NET..... 5.95

E As above, but with built-in volume control.
99 S 516. NET..... 7.50

MODEL 75-MC-1P PHONE PLUG ADAPTER FOR KNIGHT MICROPHONES. (Not illustrated). Shpg. wt., 2 oz.
41 H 962. NET..... 30c



ACCESSORIES FOR ALL APPLICATIONS



Switchcraft "Mini-Mix" Audio Mixers

Accommodate 2 high-impedance inputs. Allow mixing 2 mikes, contact mike and record player, etc. $2\frac{1}{4} \times 1\frac{3}{16} \times 1\frac{1}{16}$ ". Wt., 4 oz.

Stock No.	Fig.	Type	Description	NET
41 H 953	A	310	Has phone jack inputs with phone plug output. Fits std. jacks.	4.67
41 H 699		8266	For 310 above. Adapter for recessed jacks. Mixer. Has microphone connector inputs, and outputs with std. mike connectors.	2.20 4.67
41 H 954	B	320		
41 H 658	C	315	Phono jack inputs with mike connector output. Fits std. connector or No. 44 Adapter.	4.67
41 H 686	D	325	Mixer. For recorders and amplifiers using Jones-type connectors. Fits recessed connectors on early Webcor tape recorders, etc.	5.85 5.26
41 H 988	A	311	Similar to 310, but longer 2-cond. plug output.	
41 H 989	E	326	Mixer. 3-cond. jack inputs, with long 2-cond. plug output. For late-model Webcor recorders.	5.85

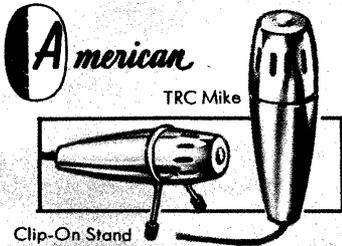
Quality Microphone Mixers

F KNIGHT TRANSISTOR MICROPHONE MIXER. For feeding up to three microphones into a single microphone input of amplifier or recorder. Includes three controls for individual gain adjustment of each mike. Doubles mike output level; may be used up to 25 ft. from amplifier or recorder. Power is provided by miniature mercury batteries, which provide extremely long service. Compact case easily fits into small area; perfect for mobile operation. Supplied complete with batteries and output cable with screw-on microphone connector. Size, $1\frac{1}{2} \times 3\frac{1}{2} \times 1\frac{1}{2}$ ". Shpg. wt., 1 lb.
93 S 283. NET. 14.95

G KNIGHT COMPACT MICROPHONE MIXER. Adds new versatility to any P.A. system at modest cost; permits mixing of three high-impedance microphones or other signal sources, or converts amplifier or recorder with single mike input for use with three microphones, each with its own separate gain control. May be used to mix sound effects and music with dialogue for movies, special effects, or tape recorded sales presentations. Exceptionally compact design. Measures only $1\frac{1}{2} \times 3\frac{1}{2} \times 7\frac{3}{4}$ ". Shpg. wt., 1 lb.
93 S 282. NET. 8.82

H PENTRON CA-14 ELECTRONIC MIXER. Professional-type mixer for amplifiers or tape and disc recorders. 8 db gain on mike inputs compensates for insertion losses; gain is -22 db on phono inputs. May be used to blend four independent channels. 6 high-impedance inputs; 4 for microphone and 2 for phono. Response, 20-20,000 cps. Size, $8\frac{1}{2} \times 5\frac{1}{2}$ ". For operation from 105-125 volts, 60 cycle AC. Shpg. wt., 5 lbs.
93 S 284. NET. 39.95

D22 Mike
on ND-1-M
Stand



Model D22 Studio-Quality Dynamic Mike

Made by American Microphones, the slender, precisely built D22 microphone has many features that make it an excellent choice for public address, recording and general audio use. Omni-directional pickup pattern. Simple "slide-lock" permits easy removal from stand for carry-about use in the hand or for suspension from around neck. Variable impedance—may be quickly and easily changed from low (50 ohms) to high (40,000 ohms) impedance by removing nameplate and changing linkage bar to impedance desired.

Response, 40 to 13,000 cps. Output, -55 db. Employs micro-metal alloy diaphragm, unaffected by temperature extremes. Duraluminum case; gold and black anodized finish. XL-3-11 latch-lock plug. $\frac{5}{8}$ "-27 threaded swivel. Complete mike, with swivel and slide-lock, weighs 8 oz. $1\frac{1}{8} \times \frac{3}{4}$ ". Shpg. wt., 12 lbs.
91 S 597. List, \$99.50. NET. 58.51

MODEL ND-1-M DESK STAND. Cut-away design permits use of mike in vertical position. Satin black finish. 3" high. Shpg. wt., 1 lb.
91 S 598. List, \$12.80. NET. 7.53

American TRC Series Low-Cost Dynamic, Crystal and Ceramic Mikes

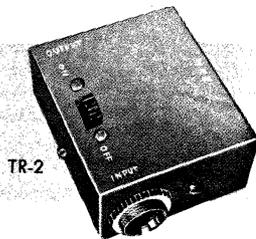
Versatile, beautifully styled TRC (Tape Recorder-Conference) microphones at unusually low cost. For stationary, hand-held or lavalier use. Have a push-to-talk button in the center of the mike faceplate. Enables the user to use pushbutton for on-off operation while speaking, or switch it to continuously "on" position for stationary use during conferences, meetings, etc. Clip-on stand allows resting mike on table or desk top; when used as lavalier, stand supports mike slightly away from chest for better low-frequency response. Mylar plastic diaphragm is unaffected by temperature or humidity extremes. With clip-on stand and 6-ft. shielded cable. Less plug. Polished chrome cases. $1\frac{3}{16} \times 4\frac{7}{8}$ ".

MODEL D204 DYNAMIC. Low impedance. Response, 80 to 8500 cps. Output, -57 db. Shpg. wt., 9 oz.
91 S 593. List, \$17.00. NET. 10.00

MODEL D204TD DYNAMIC. High impedance. -55 db output. 9 oz.
91 S 594. List, \$23.00. NET. 13.52

MODEL B204 CERAMIC. High impedance. Response, 80 to 7500 cps. Output, -60 db. Shpg. wt., 6 oz.
91 S 595. List, \$16.00. NET. 9.41

MODEL X204-M CRYSTAL. High impedance. Response, 80 to 9500 cps. Output, -58 db. Shpg. wt., 6 oz.
91 S 596. List, \$16.00. NET. 9.41



New Hamilton TR-2 Transistorized Mike-to-Grid Matching Network

- Permits Use of Balanced-Line Mikes
- Cable Lengths May Be Up to 1000 Feet

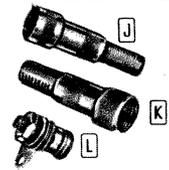
New transistorized matching network for line-to-grid applications. Matches low-impedance dynamic, ribbon or magnetic microphones to high-impedance inputs on home or semi-professional tape recorders, hi-fi amplifiers, P.A. amplifiers, etc. Replaces matching transformers normally used in this application. The TR-2 supplies additional gain of 30 to 32 db—no loss of high frequencies up to 1000 feet of mike cable. Powered by mercury batteries (last well over a year). Input impedance, 125 ohms; matches mikes of 50 to 250-ohm impedance. Output impedance, 18,000 ohms. S/N ratio: 50 db. Hum is zero. Distortion is less than 0.7%. Response, ± 3 db.20 to 20,000 cps. Accept Amphenol 91MC3M connector; phono pin plug output jack. $2\frac{3}{4} \times 3\frac{1}{4} \times 1\frac{1}{2}$ ". With batteries. Shpg. wt., 1 lb.
93 S 278. NET. 10.68

Switchcraft Miniature Mike Connectors

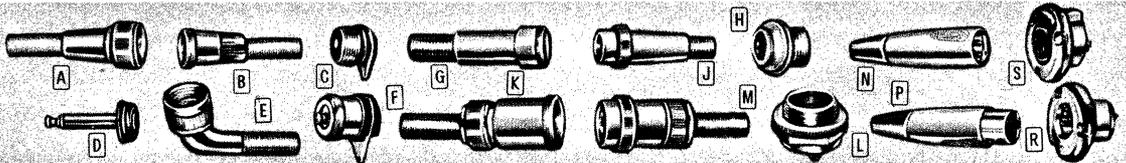
New "Mini-Con" connectors designed for use with single-conductor cable up to $\frac{3}{16}$ " in diameter (single-conductor and a shield). Ideal for lapel mikes, musical instruments, etc. Half the size of standard mike connectors. Av. net wt., $\frac{1}{4}$ oz. Nickel-plated brass body. 5501F has removable coupling ring for quick change of female to male type. 5501MP mounts in $\frac{3}{16}$ " dia. hole. Av. shpg. wt., 2 oz.

J	5501F. STRAIGHT CONNECTOR. Female type coupling ring.	35c
K	5501M. STRAIGHT MALE CONNECTOR.	26c
L	5501MP. PANEL CONNECTOR. Male type.	21c
	41 H 947. NET.	
	41 H 948. NET.	
	41 H 949. NET.	

NEW Miniature Connectors



Microphone Connectors and Accessories



Amphenol Microphone Connectors

All microphones listed on the preceding pages are supplied less connector. Choose from this complete selection of Amphenol connectors—you'll find one to meet any application.

NOTE: Amphenol Type 75-MC1F (Fig. A) fits all Knight public address amplifiers. When splicing two cords, use two 75-MC1F connectors—they can be used as plugs or jacks.

SERIES 75. SINGLE-CONTACT TYPES. Standard connectors. $\frac{5}{8}$ " 27 threads; $\frac{3}{8}$ " mounting holes. Av. shpg. wt., 3 oz.

Stock No.	Type	Fig.	Description	NET
41 H 958	75-MC1F	A	Combination cable plug & jack	31¢
41 H 955	75-PC1M	B	Cable plug	21¢
41 H 962	*75-PC1M	C	Chassis receptacle, non-shorting	22¢
41 H 962	75-MC1P	D	Phone plug adapter	30¢
41 H 959	75-MC1FA	E	90° angle cable jack	63¢
41 H 967	*75-CL-PC1M	F	Chassis receptacle, closed circuit	33¢

SERIES 91. 3- AND 4-CONTACT TYPES. Microphone connectors for portable equipment. Polarized. Clamps eliminate stress on soldered connections. *3-contact type. †4-contact type. Shpg. wt., 3 oz.

Stock No.	Type	Fig.	Description	NET
41 H 970	*91-MC3F	K	Female cable jack	64¢
41 H 972	*91-PC3F	L	Female chassis receptacle	51¢
41 H 971	*91-MC3M	M	Male cable plug	64¢
41 H 977	†91-MC4F	K	Female cable jack	67¢
41 H 978	†91-PC4F	L	Female chassis receptacle	52¢
41 H 976	†91-MC4M	M	Male cable plug	66¢

SERIES 80. SINGLE AND DOUBLE-CONTACT TYPES. For shielded cables, etc. Center contacts are pin and socket type. *Single-contact type. †Double-contact type is polarized. Av. shpg. wt., 3 oz.

Stock No.	Type	Fig.	Description	NET
42 H 080	*80-F	G	Female cable jack	40¢
42 H 084	*80-C	G	Female chassis receptacle	37¢
42 H 081	*80-M	H	Male cable plug	47¢
42 H 082	†80-MC2F	G	Female cable jack	43¢
42 H 085	†80-PC2F	H	Female chassis receptacle	40¢
42 H 083	†80-MC2M	J	Male cable plug	47¢

"QUIK" SERIES 91. 3- AND 4-CONTACT TYPES. Push together; released by slight pressure on lock button. Gold-plated (over silver) bronze contacts. Polarized. Satin-nickel plated, zinc-alloy shells. *3-contact type. †4-contact type. Av. shpg. wt., 3 oz.

Stock No.	Type	Fig.	Description	NET
42 H 065	*91-853	N	Male cable plug	1.06
42 H 066	*91-854	P	Female cable plug	1.24
42 H 067	*91-855	R	Male chassis receptacle	.67
42 H 068	*91-856	S	Female chassis receptacle	1.47
42 H 069	†91-857	N	Male cable plug	1.00
42 H 070	†91-858	P	Female cable plug	1.35
42 H 071	†91-859	R	Male chassis receptacle	.72
42 H 072	†91-860	S	Female chassis receptacle	1.57

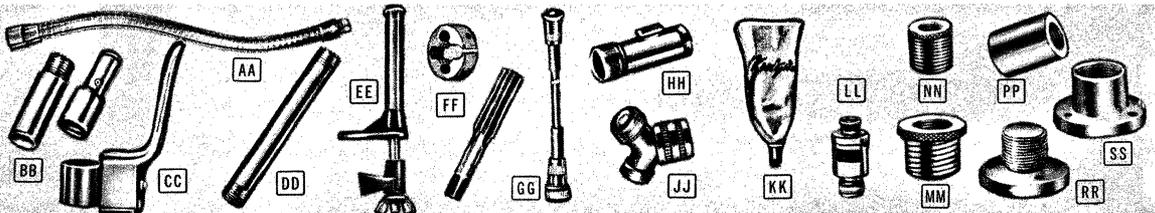
TYPE 75-CCCI CAP AND CHAIN. (Not illustrated.) For dust-sealing of chassis-mounted, Series 75 and 80 receptacles. Shpg. wt., 3 oz. 40 H 381. NET 24¢

SWITCHCRAFT SOLDERLESS MICROPHONE CABLE CONNECTORS

W TYPE 2501FL. Single-contact connector with female coupling ring. Built-in cable clamp relieves strain on terminal connections. No soldering required—just insert cable and secure wire and braid to screw terminals. Fits male mike connectors. Shpg. wt., 6 oz. 41 H 986. NET 1.32

T TYPE 2501FT. Double-female connector for single-conductor microphone cables. Provides convenient means of connecting 2 cables terminated in male mike connectors. Precision made for accurate fit. Shpg. wt., 2 oz. 41 H 998. NET 47¢

X TYPE 2501FS. Same as 2501FL, but less cable clamp. Shpg. wt., 5 oz. 41 H 987. NET 97¢



Microphone Accessories

AA ATLAS GN-13 FLEXIBLE GOOSE NECK. For any mike stand or fixture. Provides complete flexibility of mike positioning. $\frac{5}{8}$ "-27 male and female threads. 13" long. Wt., 1 lb. 94 S 027. List, \$2.75. NET 1.62

AA MODEL GN-19 FLEXIBLE GOOSE NECK. 19". 1½ lbs. 94 S 075. List, \$3.75. NET 2.20

BB ATLAS SO-1 SNAP-ON MIKE ATTACHMENT. Shpg. wt., 1 lb. 94 S 017. List, \$2.75. NET 1.62

CC ATLAS CH-1 CABLE HANGER. Fits on all stems, $\frac{7}{8}$ " to $1\frac{1}{4}$ " diameter. Durable chromium finish. Shpg. wt., ½ lb. 94 S 076. List, \$2.50. NET 1.47

DD ATLAS A07 EXTENSION ROD. Rigid, lightweight tubing 3" long. Each end has $\frac{5}{8}$ "-27 male thread. Shpg. wt., 3 oz. 41 S 913. List, 60¢. NET 35¢

DD ATLAS A08 EXTENSION ROD. 6" long. Shpg. wt., 4 oz. 41 S 907. List, 70¢. NET 41¢

EE ATLAS BC-1 BRACKET CLAMP. 6" stem. Shpg. wt., 1 lb. 94 S 028. List, \$3.50. NET 2.06

ATLAS SW-1 GYROMATIC SWIVEL. (Not illustrated.) Locks microphone at any desired angle. $4\frac{1}{2}$ " long. Shpg. wt., 1½ lbs. 94 S 067. List, \$4.50. NET 2.65

FF MIKE STAND THREADING TOOLS. For tapping stands, tubing, fittings, connectors, etc., with $\frac{5}{8}$ "-27 thread. 5 oz. 46 N 187. Tap. NET 3.53
46 N 188. Die. NET 4.70

GG EXTENSION CORD. 25-ft. cable with 75MC1F, 75MC1M connectors. Shpg. wt., 2 lbs. 41 S 911. NET 2.79

HH AMPHENOL 75-MC1S SWITCH. Push-to-talk switch with lock. Require no soldering; standard threads. Wt., 6 oz. 41 H 950. NET 1.08

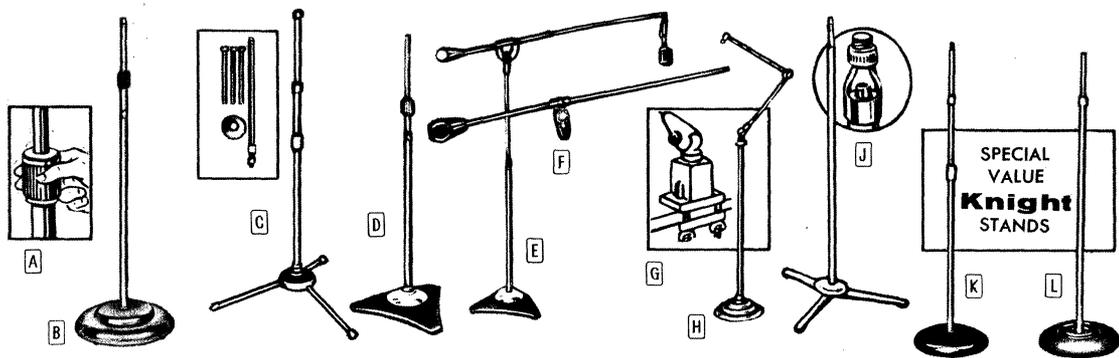
JJ "Y" TYPE MIKE CONNECTOR. 2 males, 1 female. 2 oz. 41 H 996. NET 97¢

KK "SAVE-UR-MIKE" COVER. Plastic-coated celanese. 2 oz. 41 S 995. NET 69¢

LL SWITCHCRAFT MODEL 329 MIKE VOLUME CONTROL. For high-impedance microphones having single-conductor detachable cable. Screws in between mike and cable. Wt., 6 oz. 41 H 946. NET 4.09

ATLAS MIKE STAND ADAPTERS. Wt., 2 oz. except *, 6 oz.

Stock No.	Type	Fig.	Description	NET
41 S 928	AD1	MM	For adapting RCA mikes. $\frac{1}{2}$ " male to $\frac{5}{8}$ "-27 female.	50¢
94 S 060	AD2	NN	$\frac{1}{8}$ " pipe female to $\frac{3}{8}$ "-27 male.	35¢
94 S 061	AD3	PP	$\frac{1}{8}$ " pipe female to $\frac{3}{8}$ "-27 female.	35¢
94 S 062	AD4	NN	$\frac{3}{4}$ " long. $\frac{5}{8}$ "-27 male thread.	18¢
94 S 063	AD5	PP	$\frac{3}{8}$ "-27 to $\frac{5}{8}$ "-27 female coupling.	35¢
94 S 066	AD10	.....	Adapts W, E, mikes. $\frac{3}{8}$ "-24 female to $\frac{5}{8}$ "-27 female.	71¢
41 S 906	AD11*	SS	Mike base flange. Female. $\frac{3}{8}$ "-27.	71¢
41 S 905	AD12*	RR	Mike base flange. Male. $\frac{3}{8}$ "-27.	41¢



Quality Microphone Floor Stands and Booms

A B ATLAS MS-11C FLOOR STAND. Low-cost microphone stand with high-quality features. Equipped with "Full Grip" clutch mechanism—allows stand to be quickly and quietly adjusted to any height from 35" to 65". Excellent for use in school auditoriums, etc., where the microphone must be easily positioned to the proper height for different users. Rugged base includes self-leveling, shock-absorbing pads. Reinforced with three "anti-tip" points in base for added rigidity. Chrome-plated base and stand; retains lasting beauty. Base diameter, 10". $\frac{5}{8}$ "-27 thread. Shpg. wt., 12 lbs.
94 SX 012-2. List, \$13.00. NET... 7.64

C ATLAS CS-33 DEMOUNTABLE FLOOR STAND. Three-section microphone stand designed for both fixed and portable applications. Requires no tools for assembly or demounting. Legs are held in place with "finger-operated" spring lock and can be quickly removed. Adjustable from 26" to 64". Collapsed size, 22 $\frac{1}{2}$ ". Self-leveling legs tipped with rubber—prevent skidding. Attractive chrome-plated finish. $\frac{5}{8}$ "-27 thread. Shpg. wt., 4 lbs.
94 SX 016-2. List, \$12.50. NET... 7.35

D ATLAS MS-25 "AIR-LOCK" FLOOR STAND. Features "air-lock" cushioning of telescoping section. Controlled escape of air allows only slow, quiet collapse into lower section. Microphone stand extends from 37" to 66". Heavy base is 17" dia.; provides firm support for boom arm attachment. Will not tip even with a heavy microphone. Chrome-plated stem. Gray-finished base. $\frac{5}{8}$ "-27 thread. Shpg. wt., 20 lbs.
94 SX 029-2. List, \$25.00. NET... 14.70

E ATLAS BS-36 PROFESSIONAL BOOM STAND. Similar to Model MS-25 (left), but with removable 62" boom arm. Gyromatic swivel joint at end of boom allows microphone to hang in the proper position regardless of how the boom arm is moved. Has "snap-on" hangers for attaching cable to stand. Vertical height adjustable from 48" to 72". Shpg. wt., 33 lbs.
94 SU 021-2. List, \$60.00. NET... 35.28

F ATLAS BB-1 "BABY BOOM" ATTACHMENT. Quickly converts any floor stand having a $\frac{5}{8}$ "-27 thread to a boom-type stand. Permits a quick, fixed positioning of microphone anywhere within a 5-ft. circle. Heavily chrome-plated boom attachment is 32" long. Gray crackle-finish fittings. Counterbalance weight can be adjusted easily for use with any mike. All swivel parts are precision die castings—provide smooth operation. Shpg. wt., 4 $\frac{1}{2}$ lbs.
94 SX 019. List, \$7.50. NET... 4.41

H FLEKO MODEL 3 MIKESTER. Has a sturdy 40" floor stand and two 18" easy-action swinging arms. Arms can be adjusted to firmly hold the microphone at any angle or distance, up to 36" in any direction. Weighted, anti-tip cast-iron base; diameter, 13 $\frac{1}{2}$ ". Stem finished in gray enamel. Suitable for mikes weighing up to 4 lbs. $\frac{5}{8}$ "-27 thread. Shpg. wt., 28 lbs.
94 SU 043-2. List, \$32.50. NET... 19.11

G FLEKO MODEL 1 MIKESTER. Similar to above, but less 40" floor stand. Has two bolts; unit may be clamped or screw-mounted to any surface up to three inches thick. Shpg. wt., 4 $\frac{3}{4}$ lbs.
94 SX 044. List, \$14.00. NET... 8.23

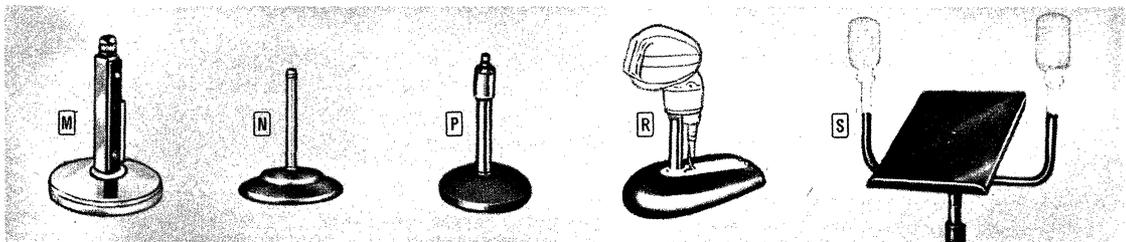
J E-V 425 FLOOR STAND. Features single-button control of shaft height. When button is released, shaft locks automatically. Shaft can be rotated without any adjustment. Adjustable from 37" to 66". Legs fold back for storing and carrying. Satin chrome finish. Die-cast base has 17" spread. $\frac{5}{8}$ "-27 thread. Shpg. wt., 9 lbs.
94 SX 049. List, \$30.00. NET... 17.64

knight FLOOR STAND VALUES

- Exceptionally Low in Cost
- For Portable or Stationary Use
- Will Accommodate Most Mikes
- Smooth-Operating Clutch Action
- Chrome-Plated for Long Wear
- Tip-Proof, Cast-Iron Base

K THREE-SECTION MODEL. An outstanding value in a highly popular, compact microphone stand—carrying height only 25". Specifically designed to accommodate all of the desk-type and floor-type mikes listed on preceding pages. Can also be used with lavalier-type microphones having adapter. Ideal for portable applications. Two smooth-operating clutches provide adjustment from 25" to 61". Stem is heavily chrome-plated for long wear. Sturdy, detachable, cast-iron base has 10" diameter. Gray, wrinkle finish. Standard $\frac{5}{8}$ "-27 thread. Shpg. wt., 10 lbs.
94 SX 001-2. NET... 7.35

L ECONOMY MODEL. As above, but two-section type. Adjustable from 35" to 64". Shpg. wt., 10 $\frac{1}{2}$ lbs.
94 SX 004-2. NET... 5.85



Microphone Desk and Banquet Stands

M E-V 428 TOUCH-TO-TALK STAND. Deluxe, versatile microphone desk stand with touch-to-talk feature. Has 6 $\frac{1}{4}$ " touch-to-talk bar on side of stem with locking button at top. Slight pressure will close circuit. SPDT switch for controlling relay or shorting out microphone. Switch assembly removable from base. Satin chrome finish; gray plastic switch lever. Stem height, 7". Sturdy die-cast base; dia., 5 $\frac{1}{8}$ ". $\frac{5}{8}$ "-27 thread. Shpg. wt., 2 lbs.
94 S 053. List, \$17.50. NET... 10.29

N ATLAS DS-5 DESK STAND. Low-cost desk stand. Chrome-plated stem, 4" high. Cast-iron base; 6" diameter. Rubber base pads prevent marring of table or desk. $\frac{5}{8}$ "-27 thread. Shpg. wt., 2 lbs.
94 S 077. List, \$3.00. NET... 1.76

P ATLAS DS-7 ADJUSTABLE DESK STAND. Height adjustable from 8" to 13". Uses full-sized clutch mechanism for quick, smooth change of stand height. 2-section stem uses $\frac{5}{8}$ " and $\frac{7}{8}$ " tube combination. All tubular sections finished in chrome. Gray crackle base, 6" diameter. Rubber base pads prevent scratches. Standard $\frac{5}{8}$ "-27 thread. Shpg. wt., 3 lbs.
94 S 014. List, \$5.00. NET... 2.94

R ATLAS DS-10 DESK STAND. Modern, functional design. Cable concealed in slot underneath center section of chrome trim. Space under base for on-off or press-to-talk switch. Gun-metal enamel finish. Rubber pads prevent marring of table-top or desk. $\frac{5}{8}$ "-27 thread. Shpg. wt., 1 $\frac{1}{2}$ lbs.
94 S 073. List, \$5.00. NET... 2.94

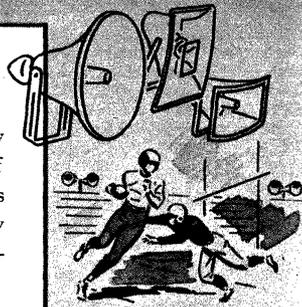
S ATLAS TB-1 DUPLEX MIKE MOUNT. For use with any floor stand or TS-7 stand below—no extra connectors needed. Permits use of 2 mikes on a single stand with proper spacing to keep the speaker "on the mike." Convenient desk attachment holds written material for ready reference; attachment is removable. Finished in chrome and cadmium plating. 9x11" desk of molded composition; black finish. $\frac{5}{8}$ "-27 thread. Shpg. wt., 2 $\frac{1}{2}$ lbs.
94 S 072. List, \$10.00. NET... 5.88

ATLAS TS-7 BANQUET STAND. For use with TB-1 duplex mount, above. Ideal for speakers' table. Chrome-plated. Height: Extended, 17 $\frac{1}{2}$ "; closed, 10 $\frac{1}{2}$ ". All chrome. Base dia., 10". Wt., 11 lbs.
94 S 074. List, \$10.00. NET... 5.88



How to Select a Public Address Speaker

It's easy to select and install P.A. speakers. Study the time and labor-saving suggestions below. If you need further information, write to Allied's Audio Division. Our audio experts will aid you by recommending specific components—specially suited to meet your individual needs.



FOR QUIET INDOOR AREAS such as offices, classrooms, reception rooms, warehouses, etc., select cone-type speakers. A variety of wall and ceiling type baffles for housing cone speakers is offered on pages 327-328. The most popular speaker sizes are 8" and 12". The 8" speakers provide excellent reproduction of voice and music; however, in applications where extended low frequency response is necessary, 12" speakers are recommended. The wattage ratings given for speakers indicate the maximum power (volume level) they will handle without distortion. Average size rooms, offices, etc., normally require no more than 2 watts for adequate sound coverage. Large warehouses, auditoriums, etc., will require as much as 10 watts per speaker. Cone-type speakers are not recommended for use under conditions of high humidity or where corrosive vapors are present.

FOR NOISY INDOOR AREAS AND OUTDOOR USE select a trumpet-type speaker. Weather-proof speakers are listed for outdoor applications. The diameter of a trumpet bell determines its bass response—the larger the bell, the greater its bass response. Horn size determines the angle of coverage—as the horn size increases, the sharpness of the dispersion angle and the penetrating power increase. Unless otherwise specified, trumpet-type speakers require drivers. There is no advantage in selecting a driver with better low frequency response than the horn it is to be used with. When an impedance matching transformer is needed, select a driver with a built-in transformer to simplify installation. Drivers listed have screw terminals. The University IB8, Jensen VH-91 and Electro-Voice 847 are for use with paging systems in very noisy areas. These are equipped with built-in drivers.

IN AREAS WHERE CORROSIVE VAPORS ARE PRESENT, such as plating mills, foundries, chemical labs, forging and blacksmith shops, etc., select a fiberglass-constructed horn. Allied stocks a wide variety of fiberglass horns to meet any application. Write to our Audio Division for special orders requiring submergence-proof or explosion-proof speakers. Allied's audio experts will furnish literature and recommendations for your specific needs.

HOW MANY SPEAKERS TO USE depends upon the particular area. Average offices require flush-mounted ceiling speakers spaced about 15 feet apart. Large indoor trumpets (using about 15 watts each) should be placed about 25-50 feet apart. In extremely noisy areas, small trumpets (using about 5 watts each) should be placed near each specific location to be covered.

OUTDOOR AREA COVERAGE is influenced by weather conditions and terrain. Where coverage is required for spectator gatherings, place speakers near the audience. For distance coverage, such as used in connection with church towers, use 4 projectors in a cluster—driven by a Knight 60-watt amplifier. This arrangement will cover from 1/4 to 1/2 mile. To double this radius, 4 times the power would be required. *Our audio experts will show you which speakers are best suited for your individual needs.*

USE OF TRANSFORMERS is recommended when extensive lengths of speaker cable are employed or when more than four speakers are used in a system. You will find trumpet drivers containing built-in transformers on the following pages. Cone-type speakers with wired transformers are shown on page 329. Write for our free bulletin "Multiple Speaker Installations."

Jensen TOP-PERFORMANCE TRUMPETS, PROJECTORS & DRIVERS



JENSEN HIGH-QUALITY TRUMPETS

MODEL H-200. Popular 20" projector horn for commercial sound work. Especially effective in indoor or outdoor applications where extensive background noise is present. Has concentrated "throw" for excellent coverage. Maximum angle coverage, 85°. 41" air column. Response, 150-10,000 cps. Mouth diameter, 20 3/4"; length, 14 7/8". All-metal construction. Handsome beige finish. Less driver (listed below). Shpg. wt., 12 3/4 lbs.

93 DU 524. List, \$31.00. NET..... 18.23

MODEL RT-20. Rugged, high-power rectangular horn; excellent for car-top and rental service. Ideally shaped for wall corner location; one unit may be used, or two will exactly fit in the 90° corner with mouth outlines in a continuous arc. Covers 80° sound angle, 41" air column. Response, 140-10,000 cps. 26x13 1/2" mouth; 16 1/8" long. Fiberglass-reinforced plastic construction; virtually indestructible. Handsome tan finish. Supplied with steel "U" bracket. Less driver (listed below). Shpg. wt., 15 lbs.

93 DU 525. List, \$46.50. NET..... 27.34

JENSEN WEATHER-RESISTANT DRIVERS

DRIVERS. High-quality drivers for Models H-200 and RT-20 above. Features include: efficient Alnico V magnetic structures; corrosion and weather-resistant construction; strain relief for wiring reliability; and sturdy, low contact resistance terminals.

Stock No.	Mfrs. Type	Watts	Ohms	Resp., CPS	Length	Dia.	Wt., Lbs.	NET EACH
93 D 526	D-30	30	16	75-7000	4 1/8"	4 1/2"	3 1/2	16.17
93 D 527	DD-100	100	8, 32	75-10000	5 5/8"	8 1/2"	8	56.74

PROJECTORS—COMPLETE WITH DRIVERS

MODEL VH-91. Compact projector with excellent speech reproduction qualities. Ideal for placement near areas of extreme noise. Maximum angle coverage, 100°. Frequency response, 300-7000 cps. Power rating, 15 watts. Impedance, 8 ohms. Mouth diameter, 8 7/8". Length, 7 5/8". Corrosion-resistant metal shell has attractive tan finish. With universal-type mounting brackets. Built-in driver completely protected from effects of weather. Shpg. wt., 3 3/8 lbs.

95 D 035. List, \$35.80. NET..... 21.05

MODEL HF-100. Extremely versatile high-fidelity projector for indoor or outdoor use. Reproduces voice and music with exceptional clarity. Frequency response, 60-15,000 cps. Power rating, 30 watts. Dispersion, 120°. Mouth diameter, 24 3/8". Length, 11 3/8". Impedance, 16 ohms. Reinforced plastic inner section and spun aluminum outer horn resists effects of corrosion. Handsome tan baked enamel finish. With "U" mounting bracket. Shpg. wt., 30 lbs.

81 DU 951. List, \$129.50. NET..... 77.70

"SPEECH MASTER" SPEAKERS

MODEL AP-10. Highly efficient 5" PM desk type speaker in attractive metal enclosure. Widely used for fixed and mobile radio communication, intercom systems, and control centers for commercial traffic dispatching. Provides superior intelligibility in the presence of static and acoustic background noise. Rated, 5 watts. Impedance, 4 ohms. 6 3/4" high. Heavy cast base has felt pad for table-top protection. In handsome gray finish with contrasting chrome trim ring. With 36" cord. Shpg. wt., 6 lbs.

82 D 040. List, \$19.30. NET..... 11.35

MODEL RK-61. 2-direction 6" speaker in metal case. 8 watts. Imp., 4 ohms. 8x3 1/4". With 24" cable. Tan. Wt., 3 1/2 lbs.

93 D 531. List, \$12.60. NET..... 7.41



TRUMPETS & DRIVERS FOR VOICE AND MUSIC



University Weather-Proof Reflex Trumpets & Heavy-Duty Drivers

A Model GH has 85-cps cutoff for music. Models LH and PH have higher cutoff for general use. Model SMH for voice only. With "U" mtg. bracket, *less driver*.

Stock No.	Type	Dia.	Length	Low Cutoff	Lbs.	List	EACH
95 DZ 158	GH	30 ⁷ / ₈ "	27 ⁷ / ₈ "	85 cps	22	\$65.00	38.22
95 DZ 155	LH	25 ⁵ / ₈ "	19"	120 cps	16 ¹ / ₂	44.50	26.17
95 DZ 156	PH	20 ¹ / ₂ "	15 ³ / ₄ "	150 cps	11 ³ / ₄	31.00	18.21
95 DX 157	SMH	16 ¹ / ₂ "	12"	200 cps	8	26.00	15.29

B COBREFLEX-2 WIDE-ANGLE REFLEX TRUMPET. Provides 120° horizontal sound pattern. 200-cps cutoff. For voice only. With swivel-joint bracket. 9¹/₂x18¹/₂x10¹/₄". Less driver. 10¹/₄ lbs. **95 DU 184.** List, \$38.35. NET. **22.54**

C MODEL CLH WIDE-ANGLE TRUMPET. Features 4¹/₂-ft. air column. 120-cps cutoff. 21¹/₂x11¹/₄x20¹/₁₆" dia. Less driver. 15 lbs. **93 DU 376.** List, \$44.50. NET. **26.17**

D MODEL RPH TRUMPET. For ceiling use; 360° coverage. 140 cps cutoff. 4-ft. air column. 25³/₄" dia. Less driver. 19 lbs. **95 DZ 162.** List, \$47.00. NET. **27.64**

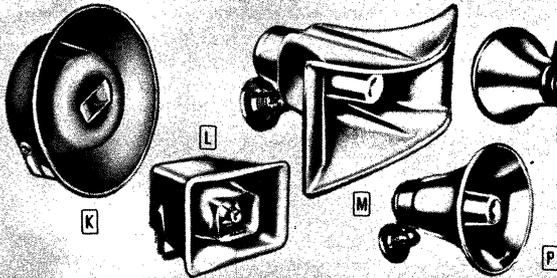
MODEL RLH. As above, with 5-ft. air column. 25 lbs. **95 DZ 042.** List, \$59.00. NET. **34.69**

PMA ADAPTER. Attachable to "U" bracket for mounting trumpets on 1/2" pipe fittings. Shpg. wt., 3/4 lb. **95 D 160.** List, \$2.00. NET. **1.18**

HEAVY-DUTY DRIVER UNITS. PM dynamic type, hermetically sealed units for any trumpet listed at left, or other trumpets. Breakdown and weatherproof. Thread, 1¹/₈"-18. MA-25 is designed for use with high cut-off frequency trumpets. SA-HF has higher frequency response. SA-30 and PA-50 have built-in, multi-impedance line transformers with power taps. Impedances: SA-30—45, 165, 250, 500, 1000, 2000 ohms. 30, 20, 10, 5 and 2.5 watt 70-v. line power taps; PA-50—16, 100, 165, 250, 500, 1000, 2000 ohms. 50, 30, 20, 10, 5 and 2.5 watt 70-v. line power taps.

Stock No.	Type	Fig.	Range, CPS	Watts	Ohms	Lbs.	List	EACH
81 D 573	MA-25	E	85-6500	25	16	3 ³ / ₄	\$27.50	16.17
81 D 571	SA-HF	F	80-10,000	30	16	4 ¹ / ₂	36.00	21.17
81 D 079	PA-HF	G	70-10,000	50	16	5 ³ / ₄	47.50	27.93
93 D 377	PA-50	H	70-10,000	50	16	6 ¹ / ₄	57.50	33.81
81 D 582	SA-30	J	80-10,000	30	16	5 ¹ / ₄	47.50	27.93

2YC "Y" CONNECTOR. Permits connection of two driver units to any trumpet listed on this page. Shpg. wt., 1 lb. **95 D 159.** List, \$12.00. NET. **7.06**



K FULL-RANGE, WEATHERPROOF COAXIAL SPEAKERS. Exceptionally fine weatherproof coaxial speakers. Full-range voice and music reproduction; high intelligibility; wide dispersion. For bandshells, stadiums, auditoriums, and other indoor or outdoor applications. Special woofer speaker cone is built into an infinite rear baffle chamber—works in conjunction with large folded horn to provide optimum loading of speaker for clean, highly efficient bass response. Have coaxially mounted tweeters with separate drivers.

MODEL BLC. 70-15,000 cps. 2000-cycle crossover. Dispersion, 120° 25 watts. Imp., 8 ohms. 22¹/₂x9". Shpg. wt., 21 lbs. **95 DU 186.** List, \$86.00. NET. **50.57**

MODEL WLC. Larger version of above. 50-15,000 cps. Dispersion, 90°. 30 watts. Imp., 8 ohms. 33¹/₂x20". Shpg. wt., 72 lbs. **95 DZ 181.** List, \$250.00. NET. **147.00**

L MODEL MLC MEDIUM-POWER SPEAKER. Similar to the BLC. For low-level speaker distribution, or to cover medium size areas. Excellent for voice and music. Ideal for general-purpose, indoor or outdoor P.A. applications. Response, 150-15,000 cps. Dispersion, 120°. Capacity, 15 watts. Imp., 8 ohms. 12³/₄x9¹/₂x10³/₈". Shpg. wt., 10 lbs. **93 DX 378.** List \$54.50. NET. **32.05**

M CIB WIDE-ANGLE SPEAKER. Perfect for paging, announcing, etc. Has reinforced fiberglass bell. Capacity, 15 watts. 300 to 13,000 cps. Horizontal dispersion, 120°; vertical, 60°. Imp., 8 ohms. 7³/₈x14x12". With mtg. bracket. Shpg. wt., 5¹/₂ lbs. **95 DX 199.** List, \$42.00. NET. **24.70**

CMIL. As above, but 5-watt capacity; 400 to 13,000 cps. Size, 6⁷/₈x9¹/₂x8⁷/₁₆". Shpg. wt., 4 lbs. **95 D 149.** List, \$29.75. NET. **17.50**

PROJECTORS FOR VOICE AND MUSIC



N 2WP 2-WAY SPEAKER. Dual horns, 180° opposed for economical coverage of two oppositely located areas. Excellent for use in school or hospital corridors, railroad stations, loading ramps, etc. Use with single MA-25, SA-HF, SA-30 or PA-HF driver. Dispersion, 120° each horn. Power and impedance ratings depend on type of driver used. With adjustable bracket. 20¹/₂x8" dia. Shpg. wt., 4 lbs. **81 DX 860.** List, \$28.00. NET. **16.46**

P MODEL IB8 GENERAL-PURPOSE SPEAKER. Reflex-type with built-in 15-watt driver unit. Compact and highly efficient, it offers maximum speech intelligibility in high-noise areas. 90° dispersion angle. Range, 300-13,000 cps. Input impedance, 8 ohms. 8¹/₂" bell dia. x 9" long. With mtg. bracket. Shpg wt., 4 lbs. **81 DX 575.** List, \$34.50. NET. **20.29**

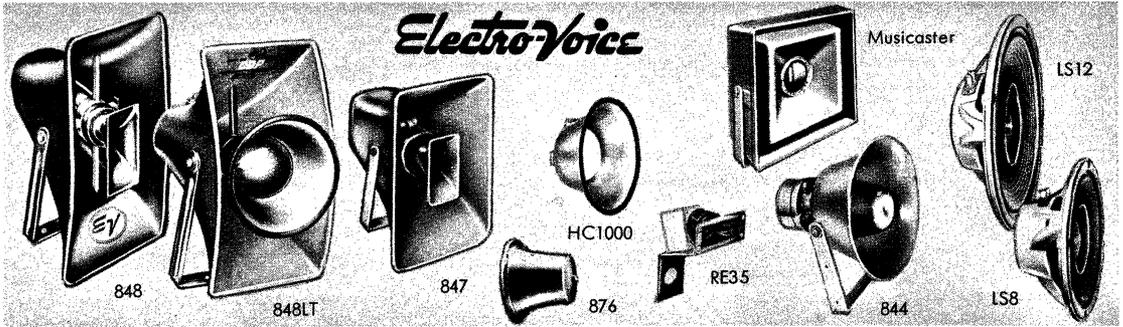
MODEL MIL LOW-POWER SPEAKER. Similar to IB8 above. For low-power systems. Reflex-type 5-watt driver. Range, 400-13,000 cps. Dispersion, 120°. Imp., 8 ohms. 7x6³/₈" dia. Shpg. wt., 3¹/₄lbs. **95 D 163.** List, \$26.00. NET. **15.29**

R MODEL IBR RADIAL SPEAKER. 15 watts. 360° coverage. 300-10,000 cps. 8 ohms. 10¹/₄x13" dia. With ceiling ring. 5¹/₄ lbs. **81 DX 576.** List, \$45.00. NET. **26.46**

S MODEL CTR TRANSFORMER HOUSING. Weatherproof, die-cast aluminum housing. For transformers 2³/₈x2⁷/₈x2¹/₈" max., and mtg. ctrs. 1¹/₂ to 2³/₄". Shpg. wt., 2 lbs. **93 D 379.** List, \$8.00. NET. **4.70**

T MODEL PB-1 TRANSFORMER HOUSING. The weatherproof transformer housing for use with Model MIL, CMIL, IB and CIB speakers. Constructed of durable die-cast aluminum. Offers complete weather protection for any transformer similar to Fig. B, p. 173, with 2" mounting centers and not exceeding 1¹/₈x1¹/₈x1¹/₈". Size, 3¹/₈" high, 2⁵/₈" dia. Shpg. wt., 1 lb. **93 D 385.** List, \$3.75. NET. **2.20**

P. A. ACCESSORIES—PORTABLE P. A. SYSTEMS



MODEL 848 CDP 30-WATT PROJECTOR

Unique coaxial projector with single driver. Virtually indestructible spun fiberglass construction; greater coverage; wide response for full range sound. Two horns are employed; large horn for low frequencies—150-1000 cps. \pm 5db; small horn for highs—1000-12,000 cps. Low-end response is augmented by 100 cps horn taper, insuring at least one-half octave added bass. Horns are coupled to opposite sides of driver diaphragm. Coverage, 120°. Capacity, 30 watts. Impedance, 16 ohms. Weatherproof. Finished in gray. 20½x10½" mouth; 20" deep. Wt., 17 lbs.

81 DU 490. List, \$75.00. NET..... 44.10

MODEL 848LT "LONG-THROW" CDP PROJECTOR

Similar to the 848 above, but employs 1000-cycle concentrating horn to limit sound dispersion to a selected area. Allows pin-pointing sound to a selected audience with increased sound level on axis. Same wide range and smooth response as 848. Response: 150 to 12,000 cps. Dispersion, 30°. Impedance, 16 ohms. Capacity, 30 watts. HWD: 20½x10½x21". Shpg. wt., 17½ lbs.

82 DU 920. List, \$75.00. NET..... 44.10

MODEL 879 JOINING KIT. For assembling two or more, Model 848 or 848LT projectors in multiple arrays. One kit required for each additional projector. Shpg. wt., 1 lb.

81 D 495. List, \$2.75. NET..... 1.62

MODEL 847 CDP 25-WATT PROJECTOR

Smaller version of 848 above. Has two coaxially mounted diffraction horns for 120° distribution at all frequencies from 250 to 13,000 cps. Capacity, 25 watts. Impedance, 16 ohms. 1500 cps crossover. In gun-metal gray. 11½x7¾" mouth; 10½" deep. Wt. 7 lbs.

81 DX 851. List, \$46.33. NET..... 27.24

TRANSFORMERS FOR CDP PROJECTORS

MODEL 876. Mounts on rear of Model 848 and 848LT projectors. Pri. taps for 25, 10, 5, and 2.5 watts with 70-v. line. Imp. taps of 45, 200, 500, 1000, and 2000 ohms. 3½x5¼". dia Shpg. wt., 3 lbs.

81 D 492. List, \$16.50. NET..... 9.70

MODEL 877. As above, but with thermal bimetallic relay for overload protection. 3½x5¼" dia. Shpg. wt., 3 lbs.

81 D 493. List, \$17.50. NET..... 10.29

MODEL 870. For use with Model 847 CDP above. Primary taps for 12, 8, 4, 2, and 1 watt with 70-volt line; impedance taps for 500, 2500, 5000, and 45 ohms. 2½x2½x3". Shpg. wt., 2 lbs.

81 D 852. List, \$12.00. NET..... 7.06

NEW ACCESSORIES FOR 848 CDP PROJECTORS

MODEL HC1000 CONCENTRATING HORN. Converts standard 848 to 848LT. Die-cast concentrating horn replaces diffraction horn on Model 848. Diameter, 9⅞"; 5⅝" deep. Shpg. wt., 6¼ lbs.

82 D 923. List, \$10.00. NET..... 5.88

MODEL RE35 RANGE EXTENDER. Mounts in horn. Response, 2500 to 18,000 cps. Capacity, 30 watts. Imp., 16 ohms. Includes tweeter, crossover, mtg. bracket, etc. Shpg. wt., 4½ lbs.

82 D 924. List, \$40.00. NET..... 23.52

NEW "MUSICASTER" P. A. SPEAKER SYSTEM

New, unique one-piece, weatherproof speaker system. Employs a die-cast aluminum, back-loaded folded horn as an integral part of its structure—extends bass response to 60 cps. Compact and lightweight, the "Musicaster" provides remarkably clean and highly realistic reproduction of voice and music. Die-cast feet allow placement on any flat surface during portable use. Response, 60 to 16,000 cps. Impedance, 8 ohms. Dispersion, 120°. Capacity, 30 watts. HWD, 21½x21½x8½". Shpg. wt., 24 lbs.

82 DU 922. List, \$80.00. NET..... 47.04

NEW MODEL 844 COMPLETE PAGING UNIT

General-purpose speaker system at an economical price. The durably built Model 844 consists of a die-cast re-entrant horn, detachable 30-watt driver and universal mounting bracket. High capacity, rugged construction and excellent reproduction make it ideal for car-top mounting on police and fire vehicles, etc., as well as for use in paging systems. Tropicalized and weather-proofed. Response, 250 to 13,000 cps. Capacity, 30 watts. Impedance, 8 ohms. Dispersion, 90°. Diameter, 9⅞"; 8⅝" deep. Shpg. wt., 7½ lbs.

82 DX 921. List, \$34.50. NET..... 20.28

NEW "WOLVERINE" FULL-RANGE P. A. SPEAKERS

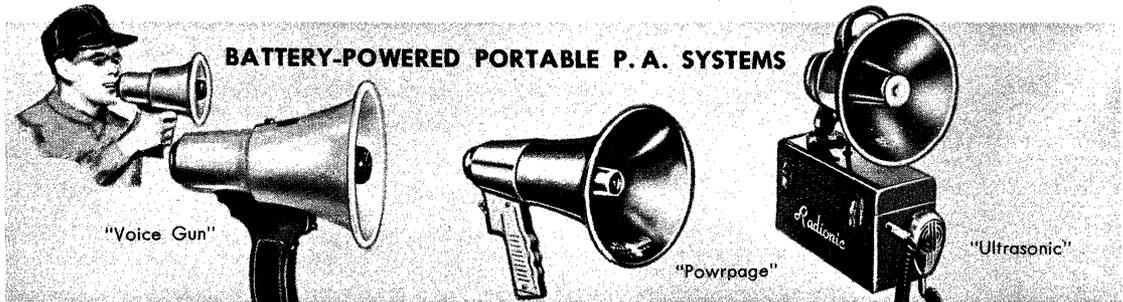
New P.A. speakers, comparable in quality and construction to hi-fi speakers. Employs precisely machined, die-cast frames; Radax 2-cone construction for maximum bass and efficient treble reproduction; edgewise-wound aluminum ribbon voice coils; slug-type magnets; and low-silhouette frames (only 3½" deep). Include moisture-resistant cones and spiders that are completely fungi-proof.

MODEL LS-12 12" SPEAKER. Response, 30 to 13,000 cps. Capacity, 20 watts. Impedance, 8 ohms. Resonance, 40 cps. Shpg. wt., 5¼ lbs.

82 DX 850. List, \$32.50. NET..... 19.50

MODEL LS-8 8" SPEAKER. Response, 50 to 13,000 cps. Capacity, 20 watts. Impedance, 8 ohms. Resonance, 55 cps. Shpg. wt., 4½ lbs.

82 D 851. List, \$30.00. NET..... 18.00



BATTERY-POWERED PORTABLE P. A. SYSTEMS

HOLMIN "VOICE GUN"

Employs powerful 3-transistor amplifier and 8 standard penlight batteries to provide amazingly loud and clear voice "throw." No warm-up necessary—thermistor allows instant indoor or outdoor use in temperatures from -20° F to 120° F. Batteries fit into clip inside handle. Entire unit, with batteries, weighs only 3¼ lbs. Spun aluminum horn and housing; red plastic handle. Includes batteries. Shpg. wt., 5¼ lbs.

93 SX 004. List, \$119.95. NET..... 89.96

UNIVERSITY "POWERPAGE"

MODEL PP-2. Lightweight, self-powered P.A. system. Has range of up to ¼ mile. Weighs only 3½ lbs. with batteries (not included). Batteries fit into handle—employs 6 penlight type. Push-to-talk switch. Has jack to permit use with external 6-volt or 12-volt DC supply. Horn is 8" in diameter. Shpg. wt. 5 lbs.

93 SX 780. NET..... 44.10

PENLIGHT BATTERY. 6 required. Each, 2 oz.

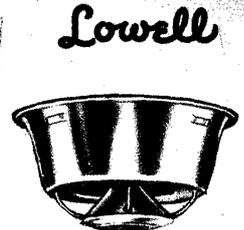
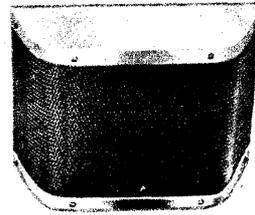
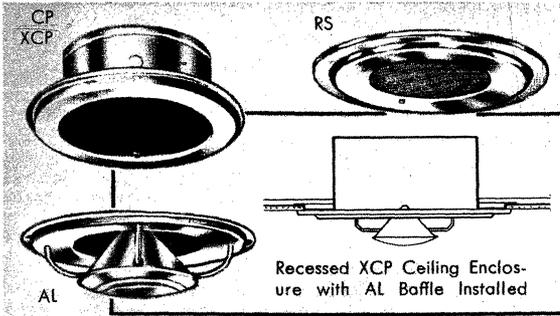
53 J 031. NET EACH..... 9c

RADIONIC "ULTRASONIC"

MODEL 2400. Heavy-duty, self-contained portable P.A. system. Easily transmits ¼ mile. Instant operation. Average battery life, 6-12 months. Supplied with case, speaker, mike, 8-ft. coiled cord and plug, and four 6-volt batteries. Has carrying handle and adjustable shoulder strap. Weather and rust-proof steel case; gray hammerloid finish. Case size, 10½x6x4¼". Shpg. wt., 15 lbs.

93 SX 886. List, \$99.50. NET..... 66.33

SURFACE AND RECESSED WALL AND CEILING BAFFLES



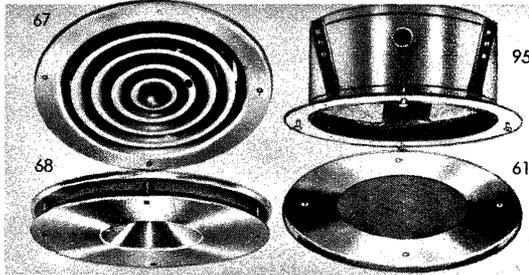
CP & XCP SERIES FLUSH-MOUNTING BAFFLE ENCLOSURES. For mounting AL and RS baffles, below. CP types for new construction; have steel can and plaster ring. All have sound deadening material. Shpg. wt.: CP6 and XCP6, 3½ lbs. each; CP8 and XCP8, 4¼ lbs. each; CP1012 and XCP1012, 7½ lbs. each.

Stock No.	Type	Description	NET
95 DX 235	CP6,	For AL6A, RS6A. 7" I.D. x4"x11¼" O.D.	4.28
95 DX 236	CP8	For AL8A, RS8A. 8½" I.D. x4½"x13" O.D.	5.29
95 DX 237	CP1012	For AL12A, RS12A. 12½" I.D. x7"x17½" O.D.	7.25
95 DX 232	XCP6	For AL6A, RS6A. 7" dia. x4" deep.	3.77
95 DX 233	XCP8	For AL8A, RS8A. 8½" dia. x4½" deep.	4.73
95 DX 234	XCP1012	For AL12A, RS12A. 12½" dia. x7" deep.	6.39

RS & AL WALL AND CEILING BAFFLES. Aluminum with ½" mtg. flange. Have satin finish. RS types for recessed wall mounting; AL for recessed ceiling mounting. Both require baffle enclosures, above.

Stock No.	Type	Description	Lbs.	NET
95 DX 240	RS6-A	For 6" speakers. 10¾"x7½"	1	2.94
95 DX 238	RS8-A	For 8" speakers. 12½"x½"	1	3.26
95 DX 239	RS12-A	For 12" speakers. 16½"x½"	1¾	4.47
95 DX 226	AL6-A	For 6" speakers. 10½" dia.	1½	4.41
95 DX 227	AL8-A	For 8" speakers. 12½" dia.	1¾	7.14
95 DX 228	AL12-A	For 12" speakers. 16¾" dia.	3¼	9.00

AL, RS and DD baffles are available in smart new, anodized decorator colors—Gold, Copper, Pink, Blue and Black. When ordering, use the word "Special" in place of Stock No. and specify choice of color. For RS baffles, add \$1.50 per unit; for AL and DD, add \$2.25 per unit.



NEW RECESSED CEILING OR WALL MOUNT BAFFLES

MODEL 67-8 LOUVERED BAFFLE. Similar to air diffusers in appearance. Welded construction; carefully checked for vibration and rattle. For 8" speakers only. O.D., 12". Hole size required in ceiling, 10¼". Use with 95-8 enclosure, below. Wt., 1½ lbs.

89 DX 971. 5 to 19, EACH. . . . 4.29 1 to 4, EACH. . . . 4.77

MODEL 68-8 LOW-CEILING BAFFLE. Attractive modern styling. Features a brushed aluminum sound diffractor for elimination of beaming in low-ceiling installations. Satin brushed aluminum. For 8" speakers only. O.D., 12¾". Hole size required in ceiling, 8½". Use with 95-8 enclosure, below. Shpg. wt., 2 lbs.

89 DX 972. 5 to 19, EACH. . . . 6.56 1 to 4, EACH. . . . 7.29

SERIES 61 TRIM RING BAFFLES. Highly polished, 20-gauge steel trim ring baffles. Offer attractive flush appearance when installed; will not buckle or "give" when bolts are driven in place. Less speaker. Hole size required in ceiling: 61-8, 8½"; 61-12, 12½".

Stock No.	Model	Speaker	Enclosure	O.D.	Lbs.	1-4, EA.	5-19, EA.
89 DX 973	61-8	8"	95-8	12¾"	1	3.11	2.80
89 DX 974	61-12	12"	95-12	17"	1	4.25	3.82

SERIES 95 PROTECTIVE ENCLOSURES

For installation in existing ceilings, enclosures are mounted through 4 holes in flange. For new construction, 4 straps allow use in any thickness of plaster. Undercoated and jute lined. Less speaker.

Stock No.	Model	For Use With:	O.D.	Depth	Lbs.	1-4, EA.	5-19, EA.
89 DX 975	95-8	61-8, 67-8, 68-8	9¾"	4¼"	7	5.12	4.61
89 DX 976	95-12	61-12	14¾"	7"	8	7.38	6.64

SURFACE-MOUNTING BAFFLES

NEW DD8-A SURFACE-TYPE DIRECTIONAL SPEAKER BAFFLE. An ultra-modernistic, aluminum wall baffle. Light in weight and easily installed, it's specially designed and highly recommended for use in new homes and apartments, offices with modern decorative motif, etc. (The DD8-A is also available in 5 smart, anodized decorator colors—gold, copper, pink, blue and black. See box at left below). Features a ¾" expanded aluminum grille, over attractive, neutral plastic grille cloth backing. Interior of the baffle is completely lined with jute to prevent metallic resonance, and is steel-reinforced for added structural strength. Speaker adapter permits quick and easy speaker installation. For 8" speakers only. Includes mounting hardware and complete instructions. Size: 9¾" high, 13¾" wide, 5¾" deep. Shpg. wt., 4 lbs.

89 DX 970. NET. 13.87

BL SERIES—NORMAL CEILING HEIGHT BAFFLES. BL baffles are designed to enclose and conceal the speaker without the necessity for cutting holes in the ceiling. Constructed of spun aluminum, they're ideal for use in hotels, restaurants, department stores, lounges, wired music installations or any normal height ceiling area. Provide 360° sound coverage—quickly and easily installed flush to the ceiling with 4 toggle bolts. Housing has pressure-relief vents and is internally lined with ¾" jute to eliminate resonance.

Stock No.	Type	Description	Lbs.	NET
95 DX 223	BL6-A	For 6" speakers. 7¼"x12¼" dia.	3¾	7.64
95 DX 224	BL8-A	For 8" speakers. 8½"x14¾" dia.	4	12.94
95 DX 225	BL12-A	For 12" speakers. 9¼"x18¾" dia.	6¾	15.88



SUSPENSION AND SURFACE-MOUNT BAFFLES

310 SERIES—SUSPENSION CEILING BAFFLES. Employ baffle similar to 210 series, but include husk and hardware. Less suspension hanger, below. *From top of husk to bottom of baffle. Less speaker.

Stock No.	Model	Speaker	O.D.	Depth	Lbs.	1-4, EA.	5-19, EA.
93 DX 273	310-8	8"	14½"	*8¼"	4¾	17.64	15.88
93 DX 274	310-12	12"	18½"	*11¾"	7¾	21.76	19.58

210 SERIES—WIDE ANGLE SURFACE BAFFLE. Feature acoustic horn, bass inverter action for clean, rich sound. Undercoated and jute lined to prevent metallic resonance. Baffles can be mounted by 4 toggle bolts or to 4" outlet box. Satin aluminum. Less speaker.

Stock No.	Model	Speaker	O.D.	Depth	Lbs.	1-4, EA.	5-19, EA.
93 DX 271	210-8	8"	14½"	4¼"	4	12.94	11.65
93 DX 272	210-12	12"	18½"	6½"	7	15.88	14.29

335 SERIES SUSPENSION HANGERS. Feature canopy with hang-straight swivel. ½" steel tubing. Mount on standard 4" outlet box. MODEL 335-2. Two feet long. Shpg. wt., ¾ lb.

93 DX 275. 5 to 19, EACH. . . . 1.62 1 to 4, EACH. . . . 1.80

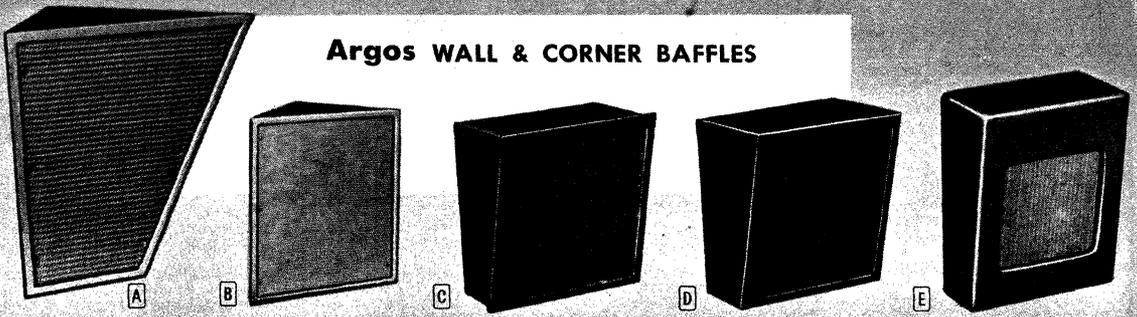
MODEL 335-3. Three feet long. Shpg. wt., 1¼ lbs.

93 DX 276. 5 to 19, EACH. . . . 1.89 1 to 4, EACH. . . . 2.10

INDUSTRIAL USERS—SAVE ON LARGE ORDERS

You pocket big savings when you buy in quantities from 5 to 19—and you can get in on even greater savings if your requirements exceed this number. Write to Allied for special quotations on quantities of 20 or more.

Argos WALL & CORNER BAFFLES



ARGOS BASS REFLEX CORNER BAFFLES. Handsomely styled, extremely versatile bass reflex enclosures. In models for 8" or 12" speakers. Incorporate true bass reflex design for rich, full-toned musical reproduction. Excellent for music distribution systems, extension speakers for hi-fi systems, P.A. use, etc. Simple, quick installation—speaker bolts are already installed and other necessary hardware is included. Acoustically padded. Rigidly constructed of reinforced plywood and hardboard, covered with plastic-coated fabric in simulated wood finish. Attractive plastic, matching grilles.

A SLANTING BAFFLES. Designed to utilize the walls and ceiling for extending bass frequency response of any speaker. Slanting panel aims sound downward.

MODEL SCB-8. For use with 8" speaker. Volume, 680 cu. in. Size, HWD: 15x21x10". Shpg. wt., 5 lbs.

95 DX 580. Mahogany. NET
95 DX 581. Blonde. EACH.....7.74

MODEL SCB-12. For use with 12" speaker. Volume, 1240 cu. in. Size, HWD: 21½x21x10½". Shpg. wt., 9 lbs.

95 DU 582. Mahogany. NET
95 DU 583. Blonde. EACH.....10.73

B NON-SLANTING BAFFLES. For corner, ceiling-hung, or wall installation. Mounting position may be selected to suit individual requirements.

MODEL CB-8C. For use with 8" speaker. Volume, 525 cu. in. Size, HWD: 14x12½x6". Shpg. wt., 4½ lbs.

91 DX 546. Mahogany. NET
91 DX 547. Blonde. EACH.....7.26

MODEL CB-12C. For use with 12" speaker. Volume, 1520 cu. in. Size, HWD: 20½x18x9". Shpg. wt., 9 lbs.

91 DU 548. Mahogany. NET
91 DU 549. Blonde. EACH.....10.29

C ARGOS DELUXE WOOD WALL BAFFLES. Feature rugged plywood construction; solid oak or walnut front frames. Excellent for all indoor installations, paging systems, etc. Easily installed—speaker bolts are already mounted and other necessary hardware is included. Attractive plastic grilles.

MODEL DWB-8. For 8" speaker. 10½x9½x6½". Shpg. wt., 3 lbs.

95 DX 400. Walnut. NET
95 DX 401. Lined Oak. EACH.....5.88

MODEL DWB-12. For 12" speaker. 14x13¼x9". Shpg. wt., 5 lbs.

95 DX 402. Walnut. NET
95 DX 403. Lined Oak. EACH.....8.23

D ARGOS LOW-COST WALL BAFFLES. Made of wood and hardboard; finished in durable plastic-coated fabric with wood grain finish. Attractive plastic grilles. Complete with wall-mounting bracket and speaker mounting hardware.

Stock No.		Model No.	Size, HWD	Speaker Size	Wt. Lbs.	NET EA.
Mahog.	Blonde					
95 D 435	95 D 436	WB-4/5A	6x6x4"	4-5"	1½	2.74
95 D 437	95 D 438	WB-6A	8½x7½x5"	6"	2	3.33
95 D 439	95 D 440	WB-8A	10½x9½x6½"	8"	3	3.97
95 DX 441	95 DX 442	WB-10A	12½x10½x7¾"	10"	4	4.70
95 DX 443	95 DX 444	WB-12A	14½x13¼x9"	12"	5	5.44

E ECONOMY BAFFLES. For all indoor installations, paging systems, etc. Wall-mounting type. Made of strong plywood, covered with dark brown leatherette. Flocked brown screen grille. Less all mounting hardware.

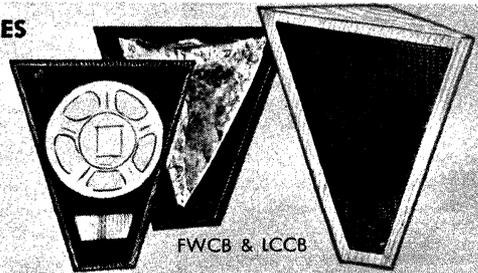
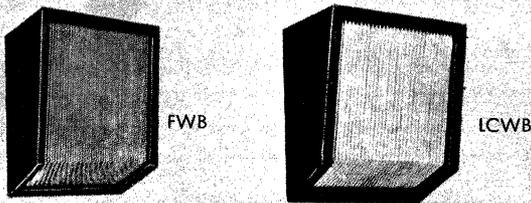
8" SPEAKER BAFFLE. Size, 11x9¾x6". Shpg. wt., 4 lbs.

93 DX 522. NET.....2.78

12" SPEAKER BAFFLE. Size, 16¾x13½x8¼". Shpg. wt., 6 lbs.

93 D 520. NET.....3.57

Wellcor WALL & CORNER SPEAKER BAFFLES



FINISHED WOOD WALL BAFFLES. Excellent for paging and music distribution use. Have a natural plywood exterior, attractively finished in either mahogany or blonde. Feature rugged, all-wood lock-corner construction; heavy-duty, ½"-thick plywood sides eliminate baffle vibration during loud passages. Speaker mounting board has hardware already installed, and additional hardware is provided for quickly and easily completing installation of speaker. With acoustically tested, matching grille cloth.

Stock No.	Model No.	Finish	Size, HWD	Speaker Size	Wt. Lbs.	NET EA.
93 DX 770	FWB-8M	Mahogany	11x9½x6½"	8"	3½	6.15
93 DX 756	FWB-8B	Blonde	11x9½x6½"	8"	3½	6.60
93 DX 751	FWB-12M	Mahogany	16¼x13½x9"	12"	5½	8.40
93 DX 777	FWB-12B	Blonde	16¼x13½x9"	12"	5½	9.30

LEATHERETTE-COVERED WALL BAFFLES. Feature same excellent, lock-corner construction as baffles listed above. Covered with heavily embossed, scuff-resistant pyroxylin-coated leatherette fabric. Rigid ½" plywood sides prevent speaker vibration or rattle. Speaker mounting bolts installed; includes speaker installation hardware.

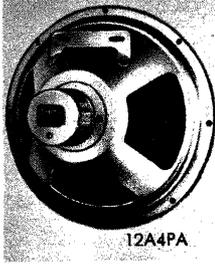
Stock No.	Model No.	Finish	Size, HWD	Speaker Size	Wt. Lbs.	NET EA.
93 DX 778	LCWB-8M	Mahogany	11x9½x6½"	8"	3½	4.08
93 DX 752	LCWB-8B	Blonde	11x9½x6½"	8"	3½	4.08
93 DX 779	LCWB-12M	Mahogany	16¼x13½x9"	12"	5½	5.61
93 DX 753	LCWB-12B	Blonde	16¼x13½x9"	12"	5½	5.61

FINISHED WOOD BASS REFLEX CORNER BAFFLES. New bass-reflex corner baffles designed for easy mounting and excellent sound reproduction. Have bass reflex ports and closed back and top. Lined with heavy fiberglass acoustic padding to prevent vibration. Tilt-downward design directs sound toward listeners with maximum efficiency. Mounting hardware is already installed on speaker board; additional hardware also provided. Baffle exteriors of natural plywood in mahogany or blonde finish; matching grille cloth.

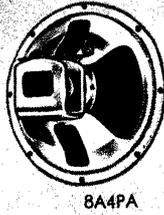
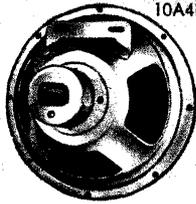
Stock No.	Model No.	Finish	Size, HWD	Speaker Size	Wt. Lbs.	NET EA.
91 DX 800	FWCB-8M	Mahogany	18x16x11"	8"	7	11.70
91 DX 802	FWCB-8B	Blonde	18x16x11"	8"	7	13.20
91 DU 801	FWCB-12M	Mahogany	22x22¾x16"	12"	12	16.95
91 DU 803	FWCB-12B	Blonde	22x22¾x16"	12"	12	18.60

LEATHERETTE-COVERED BASS REFLEX CORNER BAFFLES. Employ the same bass reflex design and rigid construction as the corner baffles listed above, but are covered in pyroxylin-coated, mahogany or blonde leatherette. Speaker mounting bolts are already installed; additional hardware is included. With acoustic insulation, etc.

Stock No.	Model No.	Finish	Size, HWD	Speaker Size	Wt. Lbs.	NET EA.
91 DX 804	LCCB-8M	Mahogany	18x16x11"	8"	4	7.50
91 DX 806	LCCB-8B	Blonde	18x16x11"	8"	4	7.50
91 DU 805	LCCB-12M	Mahogany	22x22¾x16"	12"	9	10.50
91 DU 807	LCCB-12B	Blonde	22x22¾x16"	12"	9	10.50



P.A. SPEAKERS



12A4PA

8A4PA

Quam Heavy-Duty P.A. Speakers

These heavy-duty permanent magnet speakers are specifically designed to deliver highly dependable service in public address installations. Offer high power handling capacity, excellent tonal quality, and rugged construction throughout. Complete dust-proofing and rigid welding assure permanent alignment of integral parts. Provide excellent frequency response characteristics for very smooth, clean reproduction of voice and music.

Quam speakers feature two exclusive engineering developments. One is the U-shaped field coil pot feature which provides an unbroken flux path of sufficient cross section to carry the full energy of the magnetic field. The second feature is Quam's Adjust-A-Cone suspension consisting of a clamping ring securely fastening the spider to the basket by means of two machine screws rather than cement, as in other speakers. This assures precision centering of the voice coil. Also use high-quality Alnico V magnets. Pot material is selected for low carbon content and high magnetic properties. Basket in durable baked aluminum enamel. With bracket for mounting of matching transformer. All have 6-8 ohm voice coils.

Stock No.	Mfr's Type	Size	Max. Watts	Magnet Wt., Oz.	Wt., Lbs.	NET EACH
81 D 061	8A21PA	8"	8	2.15	1½	4.82
81 D 062	8A31PA	8"	10	3.16	2¼	5.41
81 D 335	8A4PA	8"	12	4.64	2¾	6.00
81 D 336	8A6PA	8"	12	6.8	3¼	7.11
81 D 063	10A31PA	10"	12	3.16	2¾	6.32
81 D 394	10A4PA	10"	14	4.64	3¼	6.88
81 D 395	10A6PA	10"	14	6.8	3½	8.00
81 D 064	10A10PA	10"	20	10.0	3½	10.58
81 DX 065	12A31PA	12"	12	3.16	3¾	6.82
81 DX 337	12A4PA	12"	15	4.64	4	7.44
81 DX 338	12A6PA	12"	15	6.8	4½	8.53
81 DX 340	12A10PA	12"	25	10.0	4¾	11.17

TRANSCRIPTION PLAYER



Bogen VP-17X Transcription Player

Portable, variable speed transcription player. Has built-in 10-watt amplifier, plus microphone input with separate gain control—makes an excellent portable P.A. system. An extremely versatile combination of player, amplifier, and speaker in a portable unit. Useful for instruction, calisthenics, etc. Has outstanding Bogen B50-16 turntable—features continuously variable speed from 16 to 86 rpm. Plays all records up to 16" dia., with splendid sound quality and minimum record wear. Speed adjustment is accomplished through a precision cone drive, regulated by a single lever with lock-in positions for accurate, instantaneous selection of conventional speeds (78, 45, 33½ and 16½ rpm).

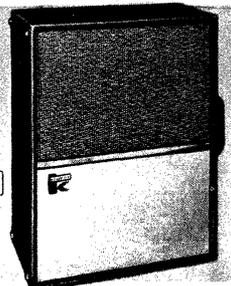
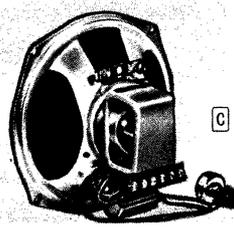
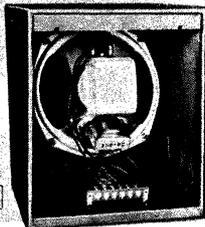
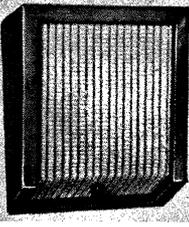
Incorporates heavy-duty 4-pole motor, weighted (¾ lbs.) and balanced turntable; reduces wow, hum and rumble to negligible values—wow to under 0.5%! Die-cast pick-up arm has ball-bearing mount and "Feather-Drop" action to protect record and stylus; equipped with G.E. variable reluctance cartridge with dual sapphire stylus. With built-in compensated preamplifier for cartridge.

12" heavy-duty Alnico V speaker is mounted in removable lid of carrying case; has 25 ft. of cable. Provides sufficient coverage for moderate-size gymnasium or auditorium—has 2 jacks for external speakers. Separate bass and treble controls are provided, as well as an effective scratch and noise filter. Attractive, compact carrying case is constructed of ¾" plywood, and is adequately shock-mounted. Expanded metal speaker grille; covered in two-tone luggage-type fabric.

Output: 10 watts with less than 3% harmonic distortion. **Response:** Mike, ±1½ db, 50-10,000 cps; Phono and Radio, ±1½ db, 40-12,000 cps. **Hum:** 60 db below 10 watts. **Tone Control:** ±15 db at 100 cps; —23 db at 10,000 cps. **Controls:** Mike gain, phono gain, treble, bass, off-on. **Size:** 12½x17x16¼". For 110-120 v., 50-60 cycle AC. Shpg. wt., 40 lbs.

95 RU 959. List. \$181.90. NET. 136.43

KNIGHT SPEAKERS & BAFFLES



A 8-OHM SPEAKER-BAFFLE COMBINATION. Ready-to-use, speaker-baffle combination for extending sound coverage of existing sound systems. For all indoor installations including P.A. systems in schools, industrial plants, large offices, etc. Pre-wired volume control for regulating sound level at speaker. Attractive, sloping-front baffle is made of ¼" and ½" veneered woods. Rabbed construction. Built-in, heavy-duty 8" speaker with 4.64 oz. Alnico V magnet. Impedance, 8 ohms. Capacity, 10 watts. Hanging the baffle is as easy as hanging a picture—has slots at rear for screws or nails. Size, 11x9½x6½". Shpg. wt., 6 lbs.

93 D 704. NET. 13.95

AS ABOVE, WITH 12" SPEAKER. Size, 16¼x13½x9". Shpg. wt., 11 lbs.

91 DX 850. NET. 16.70

A 70.7-VOLT SPEAKER-BAFFLE COMBINATION. A high-quality speaker-baffle combination similar to the deluxe combination above, but with built-in transformer for use with 70.7-volt speaker distribution systems. For building an efficient sound system, or for increasing the versatility of a present system at low cost. Simply determine wattage rating need for each room—add ratings together—choose an amplifier with a rating which is at least equal to the total rating of the speaker load. 8" speaker; pre-wired volume control for individual sound level adjustment. Screw-type terminals are marked for 10, 5, 2.5, 1.25 and 0.62 watt output. Wt., 7 lbs.

93 D 703. NET. 16.95

AS ABOVE, WITH 12" SPEAKER. Size, 16¼x13½x9". Shpg. wt., 12 lbs.

91 DX 851. NET. 18.70

B PRE-WIRED 8" SPEAKER & VOLUME CONTROL ASSEMBLY. Same components as used in 93 D 704 (at left), but for installation in baffle of your choice. Includes heavy-duty 8" speaker for efficient reproduction of voice and music; pre-wired volume control on 18" cable for controlling sound level at speaker. No soldering—just attach speaker line to screw terminals. Shpg. wt., 3 lbs.

92 D 398. NET. 6.65

B PRE-WIRED 70.7-VOLT 8" SPEAKER & VOLUME CONTROL ASSEMBLY. Same components as used in 93 D 703 (at left), but for installation in baffle of your choice. Includes 8" speaker with built-in transformer for use with 70.7-volt speaker distribution systems; pre-wired volume control on 18" cable for individual sound level adjustment. No soldering—just attach speaker line to screw terminals (marked for 10, 5, 2.5, 1.25 and 0.62-watt output). Wt., 4 lbs.

92 D 399. NET. 8.65

P.A. SPEAKER-AMPLIFIER CARRYING CASES. Ruggedly-built combination speaker-amplifier cases. Expressly designed for Knight 8, 16 or 32-watt amplifiers. Interiors have cable windup brackets and pocket for mike. Attractive leatherette covering with contrasting grille.

C SMALL CASE. For system using Knight 8-watt amplifier and one 8" speaker. Brown with light green grille. Molded plastic handle. HWD: 16x12x5¼". Shpg. wt., 9 lbs.

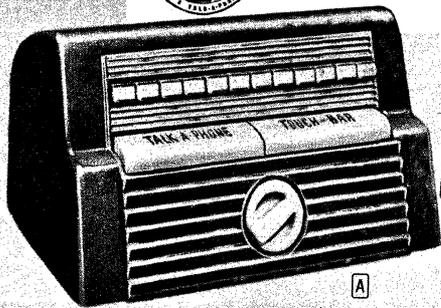
93 DX 768. NET. 11.95

D LARGE CASE. For system using Knight 16 or 32-watt amplifier and two 12" speakers. Clips for mike stand. Aqua and ivory. Leather handle. HWD: 24¼x18¼x11¼". Shpg. wt., 20 lbs.

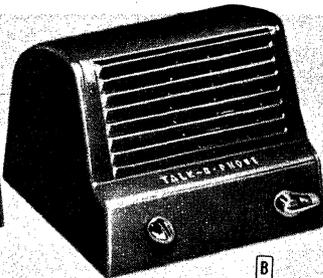
93 DU 767. NET. 17.96



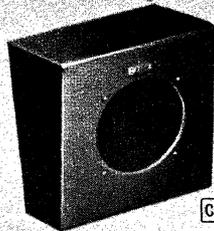
TALK-A-PHONE "CHIEF" ALL-PURPOSE INTERCOM SYSTEMS



A



B



C



D



E

MAXIMUM VERSATILITY—FOR ALL INTERCOM NEEDS

- Only Master Stations Require AC Power
- Masters Can Call Any Other Master or Sub
- Subs Can Call Master Stations
- Extra-Power Units Available for Noisy Areas
- Reach 40 Stations With Only 12 Pushbuttons
- "Private" or "Non-Private" Wiring of Subs
- Extra-Power Masters Are Available for Paging
- Some Models Feature Single-Button Paging

"Chief" Universal Master Stations

A "Chief" Master stations can be used in a wide variety of combinations: in a system composed of all Master stations; one Master and one or more Sub-stations; or in a system employing several Masters intermixed with Sub-stations. Systems can be made up having a capacity of 6, 12, 20, or 30 stations (up to 60-station Masters available on special order). Masters can talk with any other Masters, as well as with Sub-stations. Sub-stations can answer all Masters, but no other Sub-stations. Only Master stations require connection to electrical outlets. Sub-stations can be wired for "private" or "non-private" operation—any Sub can be "non-private" to one or more Master stations, and "private" to others. Master stations include pushbutton selector, Push-to-Talk bar, illuminated volume control knob, and junction box with 6-ft. cable. Handsome walnut or *executive gray bakelite cabinets, 7x12x9". U.L. Approved. For 110-120 v., 50-60 cycle AC or DC.

Stock No.	Mfr's Type	Capacity	Shpg. Wt.	List	NET EACH
95 RX 885	C-4906	6 stations	13 lbs.	\$99.00	58.20
95 RX 887	C-4912	12 stations	14 lbs.	119.00	69.95
93 RX 435	*C-4912G	12 stations	14 lbs.	123.50	72.65
95 RX 888	C-4920	20 stations	14 lbs.	140.00	82.30
93 RX 436	*C-4920G	20 stations	14 lbs.	144.50	85.00
95 RU 889	C-4930	30 stations	16 lbs.	161.00	94.65

"Chief" Sub Stations

B "Chief" Sub stations are for use with any "Chief" Master station and work with models listed at left. Subs can answer any Master in the system (whether connected directly to them or not), but cannot talk to other Sub-stations. Subs can originate calls to 1, 2 or 6 Masters, depending upon the capacity of the Sub in use. All "Chief" Subs may be connected non-privately to permit persons at Subs to answer any Master from a distance, without operating controls; or they can be connected privately, to require operation of the Talk-Listen switch. Subs are not connected to electrical outlets and consume no power.

In walnut-finished bakelite or brown-finished metal cabinets (except Subs with letter G in type no.—have executive gray bakelite cabinet). Size: 6¼x8x7¼", except push-button Model C-46 which is 7x12x9¼". †Number of Masters, Sub-stations can call.

Stock No.	Type	Masters†	Cabinet	Wt.	List	NET
95 RX 886	C-41	one	bakelite	5 lbs.	\$22.95	13.50
93 RX 440	C-41G	one	bakelite	5 lbs.	25.95	15.30
95 R 863	C-41M	one	metal	3 lbs.	22.95	13.50
95 RX 890	C-42	two	bakelite	5 lbs.	29.95	17.50
93 RX 441	C-42G	two	bakelite	5 lbs.	32.95	19.30
95 R 864	C-42M	two	metal	3 lbs.	29.95	17.50
95 RX 891	C-46	six	bakelite	9 lbs.	73.00	43.00

"Chief" Extra-Power Master Stations

Use "Redi-Power" Masters in any "Chief" system where extra power is needed to overcome noise. Built-in amplifier provides 20 watts which may be divided among stations, or concentrated on 1 station. Just press the Redi-Power button. For high-power paging use C-20 or HP-3 Sub-station (right). For AC only; other features same as Masters, above. Walnut-finish bakelite cabinets.

12-STATION REDI-POWER MASTER. Type C-RP-5912. 17 lbs.	95 RU 882. List, \$179.00. NET PER STATION.....	105.00
20-STATION REDI-POWER MASTER. Type C-RP-5920. 17 lbs.	95 RU 883. List, \$200.00. NET PER STATION.....	117.50
REDI-POWER MASTER WITH SINGLE-BUTTON PAGING. Type C-RP-5911. 11-station capacity. To page pre-selected stations, merely press "Page" button. Has all Redi-Power features. 18 lbs.	95 RU 892. List, \$199.00. NET PER STATION.....	117.00

High-Power Subs and Origination Switches

HIGH-POWER SUB-STATIONS. Can answer Master. Originate calls when used with switches, below.

C HP-3. INDOOR TYPE. 8" speaker in brown, wrinkle-finish metal baffle. 5 watts. Size, 12x12x8". Shpg. wt., 9 lbs.	95 RX 849. List, \$28.00. NET.....	16.50
D C-20. TRUMPET TYPE. 9", weather-proof re-entrant horn for "Chief" and Master-Selective systems. 15 watts. 5 lbs.	95 RX 878. List, \$44.95. NET.....	26.50
E ORIGINATION SWITCHES. Wall mounted type. Ideal for use with C-20 and HP-3. Type S-100 is for Master-Selective system; S-101 and S-102 are for "Chief" system. Shpg. wt., 2 lbs.	95 R 845. S-100. List, \$6.00. NET.....	3.50
	95 R 841. S-101. Calls 1 Master. List, \$6.00. NET.....	3.50
	95 R 848. S-102. Calls 2 Masters. List, \$11.00. NET.....	6.50

CABLE REQUIREMENTS AND CABLE FOR "CHIEF" SYSTEMS

For connecting Master station to Master station, measure from the first Master to the second Master only, from the second Master to the third Master only, etc.; then add up to determine length. If your "Chief" system is using 6-station Masters, Type 6212 cable is required for hook-up. Type 6224 cable is required for all other "Chief" Masters—use single length of cable between 6-station or 12-station Masters; double lengths of cable between 20-station Masters; triple lengths of cable between 30-station Masters.

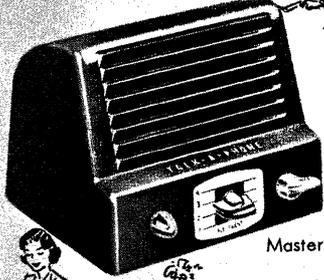
Use single length of Type 6204 cable for connecting C-41, C-42, C-46, HP-3 and C-20 Sub-stations where origination of call is desired. Measure from Sub to each Master to which Sub-station originates calls. Where origination feature is not required, use single length of Type 6902 cable for connecting C-20 or HP-3 high-power Sub-stations to Master station. Note: All 4 types of cables: 6212, 6224, 6204 and 6902, are suitable for indoor or outdoor applications, and are specially designed for use with Talk-A-Phone equipment.

TALK-A-PHONE INTERCOM CABLE. Designed for minimum noise pickup. Conductors: Type 6212, 12 conductors (6 twisted pairs); 6224, 24 conductors (12 twisted pairs); 6204, 4 conductors (2 twisted pairs); 6902, 2 conductors (1 twisted pair).

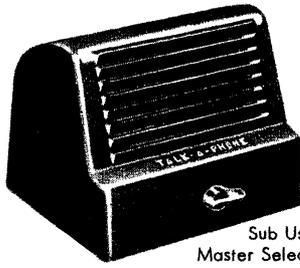
Stock No.	Mfr's Type	Lbs., 100 Ft.	PER FOOT
49 W 606	6212	5	14¢
49 W 608	6224	9	28¢
49 W 607	6204	2½	6¢
49 W 613	6902	2	2¢



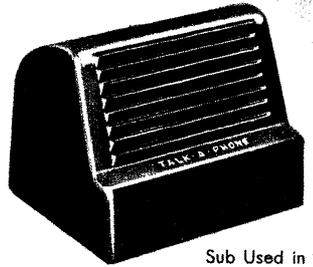
TALK-A-PHONE SYSTEMS FOR SPECIFIC INTERCOM NEEDS



Master



Sub Used in
Master Selective System



Sub Used in
Combination
System



Master Selective System

ALL CALLS ARE TO OR FROM
A CENTRAL MASTER



- Subs Can Originate Calls to Master Station
- Use Standard Series for Stores and Offices
- Use High-Output Series for Shops, High-Noise Areas

Super-Selective System

EVERY STATION CAN CALL EVERY
OTHER STATION IN THE SYSTEM



- Consists Entirely of Masters—Each Requiring AC Outlet
- Several Conversations Can Be Carried On At One Time
- Absolute Privacy—Conversations Cannot Be Overheard

Combination System

MASTERS CAN CALL ANY MASTER
OR SUB STATION IN THE SYSTEM



- Subs Can Receive Calls, But Cannot Originate Calls
- Persons at Masters or Subs Can Answer From 40 Ft. Away
- Masters Have "Private" or "Non-Private" Feature

Low-cost communication between a single Master and up to 10 Subs. *Only one Master can be used in this system.* Master can select a single Sub or call all Subs simultaneously. Any Sub can call the Master, but cannot talk to other Subs. System cuts out sounds from Subs when not in use, yet Subs can still call Master.

Standard Masters provide adequate volume for systems in average locations. For noisy locations, select High-Output Masters and Subs. Walnut bakelite cabinets, 8 1/4 x 6 1/4 x 7 1/2", except LR-3M and AR-3M Subs in brown metal cabinets, 7 x 5 3/4 x 3 1/2". Shpg. wts.: Masters, 7 lbs.; bakelite Subs, 5 lbs.; metal Subs, 3 lbs.

STANDARD-OUTPUT SYSTEMS. For 110-120 volt, AC or DC.

MODEL LM-5. Master for up to 5 Subs.

95 RX 870. List, \$49.95. NET..... 29.35

MODEL LM-10. Master for up to 10 Subs.

95 RX 869. List, \$65.00. NET..... 38.20

MODEL LR-3. Sub for LM-5, LM-10.

95 RX 871. List, \$16.95. NET..... 9.95

MODEL LR-3M. Metal Sub for LM-5, LM-10.

95 R 846. List, \$16.95. NET..... 9.95

HIGH-OUTPUT SYSTEMS. For 110-120 volt, 50-60 cycle AC only.

MODEL AC-5406. Master for up to 5 Subs.

95 RX 807. List \$65.00. NET..... 38.20

MODEL AC-5411. Master for up to 10 Subs.

95 RX 808. List, \$79.95. NET..... 47.00

MODEL AR-3. Sub for AC-5406 or AC-5411.

95 RX 838. List, \$17.95. NET..... 10.50

MODEL AR-3M. Metal Sub for AC-5406, AC-5411.

95 R 839. List, \$17.95. NET..... 10.50

A versatile intercom system, consisting entirely of Master stations. Allow separate, 2-way conversations to be carried on simultaneously without crosstalk. System can be started with as few as 2 Masters and can be expanded up to 10 Masters. No Subs are used in a Super-Selective System. Any Master may talk to any other Master with absolute privacy. Up to 2000 ft. of cable may be used between stations. Walnut bakelite cabinets, 8 1/4 x 6 1/4 x 7 1/2". For 110-120 v. AC or DC. Shpg. wt., 7 lbs.

MODEL LS-5. For up to 5 stations.

95 RX 875. List, \$49.95. NET..... 29.35

MODEL LS-10. For up to 10 stations.

95 RX 874. List \$65.00. NET..... 38.20

An economical intercom system that allows a high degree of flexibility. Masters and Sub-stations can be intermixed in any combination to provide most usefulness. Persons at Masters and Subs can answer calls 40 feet from unit. Masters may talk to each other and to each Sub in the system selectively; or one or more Subs can be exclusive to only one Master. Subs cannot originate calls. Switch allows Masters "private" feature so that other Masters cannot listen in (but still receive and originate calls); or "non-private" feature. Sub-stations consume no current; Masters operate on 110-120 volts, AC or DC.

COMBINATION SYSTEM MASTERS. Choice of either 5-station or 10-station models. Masters have rotary switch for selecting stations, volume control, and Talk-Listen switch. Use a Master to originate calls to any Master or Sub in the system. In walnut bakelite cabinets, 8 1/4 x 6 1/4 x 7 1/2". U.L. Approved. Shpg. wts.: Type CL-5, 7 lbs.; Type CL-10, 8 1/2 lbs.

MODEL CL-5 MASTER. For up to 5 stations.

95 RX 842. List, \$62.00. NET..... 36.40

MODEL CL-10 MASTER. For up to 10 stations.

95 RX 843. List, \$83.00. NET..... 48.80

COMBINATION SYSTEM SUBS. For use only with CL-5 and CL-10 Masters. Model LR-2 is walnut bakelite; Model LR-2M is brown, wrinkle-finish metal. Sizes: LR-2, 8 1/4 x 6 1/4 x 7 1/2"; LR-2M, 7 x 5 3/4 x 3 1/2".

MODEL LR-2 SUB. Shpg. wt., 5 lbs.

95 RX 844. List, \$15.95. NET..... 9.35

MODEL LR-2M SUB. Shpg. wt., 3 lbs.

95 R 847. List, \$15.95. NET..... 9.35

TALK-A-PHONE CABLE

For Master Selective systems, use Type 5303 and measure from Master to each Sub, then total. For Super Selective systems, use Type 5506 for LS-5 Masters and Type 9911 for LS-10 Masters. Measure from 1st Master to 2nd only, 2nd to 3rd only, etc. For Combination systems, use Type 6212 for CL-5 Masters and Type 6224 for CL-10 Masters. Measure from 1st Master to 2nd only, 2nd to 3rd only, etc. For Subs, use Type 6902 and measure from each Sub to nearest Master only.

Stock No.	Mfr's Type	Lbs., 100 Ft.	PER FOOT
49 W 604	5303	3	3c
49 W 606	6212	6	14c
49 W 608	6224	12	28c
49 W 613	6902	3/4	2c
49 W 605	5506	4	7 1/2c
49 W 603	9911	12	14c

OPTIONAL FEATURES FOR TALK-A-PHONE SYSTEMS

PRIVACY EARPHONES. For all stations listed on this and opposite page. When lifted from rest, cuts out built-in speaker. In brown only. Add \$13.50 per station.

CRADLE PHONE. For Masters and bakelite-case Subs, except CL-5, CL-10 and radio-intercom units listed on page 332. Add \$29.35 per station when ordering.

BUSY SIGNAL. For "Chief" Masters. Gives visual indication that another Master you are calling (similarly equipped), is "busy". Add \$7.00 per station.

EXECUTIVE GRAY FINISH. All bakelite Talk-A-Phone units, including Master and Sub stations, are available in distinctive, executive gray finish. This attractive color is highly suitable for any office decor. Add \$2.70 to the price of each "Chief" Master station; add \$2.70 to the price of each Model C-46 Sub station; add \$1.80 to the price of any other bakelite Talk-A-Phone unit. When ordering gray Talk-A-Phone stations not listed on these pages, indicate "Special" in place of Stock No., and allow 10 days for delivery.

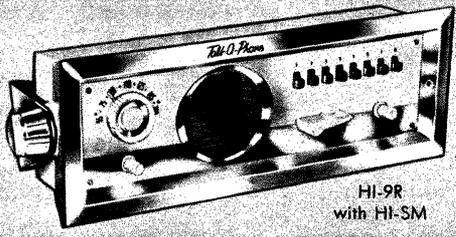
Cradle Phone

Privacy Earphone





TALK-A-PHONE TRANSISTORIZED HOME INTERCOM & MUSIC SYSTEM



HI-9R with HI-SM



HI-2



HI-1

Master and Staff Stations

Deluxe, all-transistorized home radio-intercom. Accommodates up to eight stations in a system. Each system requires one Central Master, and either one 4F6H 9-volt battery or one HI-PS AC power supply (listed at right). Any Master or Staff can originate calls to any other station. Masters or Staffs also can monitor any Staff or Sub-Station which is switched to "non-private" operation—a valuable feature for "listening in" on the nursery or sick room. Central Master, any Staff and any Indoor Sub-Station can listen to standard broadcast (AM) radio programs when Central Master Station is equipped with built-in radio (HI-9R listed below).

All Master and Staff stations have 15 1/4 x 5 1/4" panel handsomely finished in gold and satin-silver—plus plaster ring for in-wall mounting—may be placed on table-top or shelf, or hung from any overhead cabinet, if desired, by using HI-SM housing assembly.

MODEL HI-9R CENTRAL MASTER STATION. Transistorized built-in AM radio—HI-8 or HI-2 can listen in. Less battery (see 4F6H listed at right). Shpg. wt., 8 lbs.
93 RX 242. List, \$154.00. NET..... **89.50**

MODEL HI-9 CENTRAL MASTER STATION. As above, less radio; has 3 audio stages with push-pull output. 7 lbs.
93 RX 241. List, \$99.50. NET..... **58.00**

MODEL HI-8 STAFF STATION. Has switch for "private" or "non-private" operation. Shpg. wt., 7 lbs.
93 RX 244. List, \$54.00. NET..... **31.50**

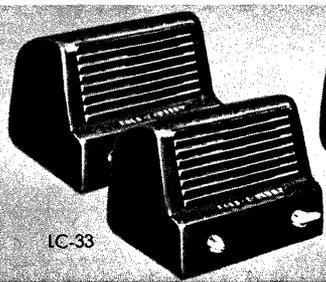
Sub-Stations and System Accessories

Indoor and Outdoor Sub-Stations can receive calls from and reply to any Master or Staff, but cannot originate calls. Indoor Subs can switch to "private" or "non-private." Outdoor Subs are "non-private" only; have push-button for connection to home chimes or buzzer, plus illuminated name-plate. Both types of Subs require 2" square x 2" deep opening for in-wall mounting. Attractively finished in polished gold and satin silver.

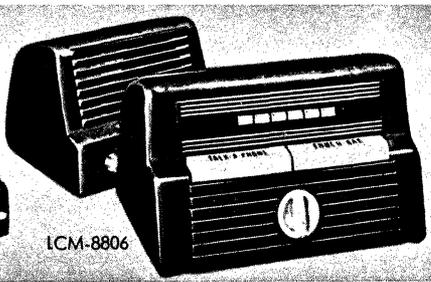
No.	Type	Description	Size	Wt.	List	NET
93 R 245	HI-1	Outdoor Sub	5 5/8 x 3 3/8"	1 1/2 lbs.	\$27.50	15.95
93 R 246	HI-2	Indoor Sub	5 5/8 x 3 3/8"	1 1/2 lbs.	27.50	15.95
93 R 247	HI-SM	Housing Assembly	6 x 1 5/8 x 4"	2 1/2 lbs.	19.00	11.00
93 R 248	HI-JB	Junction Box	1 3/4 x 8 3/4 x 8 3/4"	1 lb.	7.00	4.00
93 R 249	HI-PS	AC Power Supply	3 x 5 x 2"	5 lbs.	27.50	15.95
53 J 033	4F6H	9 v. Burgess Battery	8 1/2 x 4 1/2 x 5 7/8"	9 lbs.	7.10	4.73

CABLE REQUIREMENTS. HI-JB junction box not required. Cable for Masters and Staffs: use Type 6224 from first unit to second, second to third, third to fourth, etc. Cable for Sub-Stations: use Type 6206 for Indoor Subs to nearest Master or Staff; Type 6202 for Outdoor Subs to nearest Master or Staff. Cable for Battery or Power Supply: use Type 6202 to Central Master Station. If use of junction box is desired, measure from each station to HI-JB.

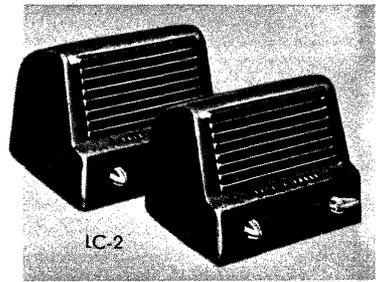
49W 608. Type 6224 Cable. Wt., per 100', 12 lbs. PER FT..... **28c**
49W 621. Type 6202 Cable. Wt., per 100', 4 lbs. PER FT..... **3 1/2c**
49W 622. Type 6206 Cable. Wt., per 100', 3 lbs. PER FT..... **8 1/2c**



IC-33



LCM-8806



IC-2

TALK-A-PHONE Wireless Intercom Systems

NO INSTALLATION REQUIRED. Wireless intercoms are remarkably versatile and exceptionally easy to use—just plug them into the wall outlet like a radio—and you're ready to talk and listen. Change locations whenever you wish. No wiring between stations—the power line itself serves as the transmitting cable. The only requirement is that all stations in the system receive power from the same electric-company line. U.L. Approved. For operation from 110-120 volts, AC or DC.

NON-SELECTIVE SYSTEMS. An economical choice if communication privacy is not required. All stations can call any other station—every station hears all messages. Feature "Sonic Gate" circuit to silence random noises and "Uni-Trans" switch-lock to permit continuous transmission. Bakelite cabinets. 7 1/2 x 8 1/2 x 6 1/4".

TWO STATION SYSTEMS. Shpg. wt., 14 lbs.

Stock No.	Type	Color	List	PER PAIR
95 RX 821	LC-33	Walnut	\$120.00	69.95
95 RX 822	LC-33G	Gray	126.00	73.55

ADDITIONAL STATIONS. Shpg. wt., 7 lbs.

Stock No.	Type	Color	List	NET EA.
95 RX 823	LC-17	Walnut	\$60.00	35.00
95 RX 824	LC-17G	Gray	63.00	36.80

SELECTIVE SYSTEMS. For up to 6 channels—or any number of stations can be used by sharing channels. Auxiliary stations operate on 1 fixed channel only (cannot originate calls to master; can call another auxiliary on same channel).

6-CHANNEL MASTERS. 7x12x9". 12 1/2 lbs.

Stock No.	Type	Color	List	EACH
95 RX 826	LCM-8806	Walnut	\$122.50	72.00
95 RX 827	LCM-8806	Gray	127.00	74.70

SINGLE-CHANNEL AUXILIARIES. Bakelite cabinets. 7 1/2 x 8 1/2 x 6 1/4". Shpg. wt., 7 lbs.

Stock No.	Type	Color	Channel
95 RX 828	LCS-801	Walnut	1
95 RX 829	LCS-802	Walnut	2
95 RX 831	LCS-803	Walnut	3
95 RX 832	LCS-804	Walnut	4
95 RX 833	LCS-805	Walnut	4
95 RX 834	LCS-806	Walnut	6

List, \$66.00. NET PER STATION..... **38.80**

Stock No.	Type	Color	Channel
93 RX 410	LCS-801G	Gray	1
93 RX 411	LCS-802G	Gray	2
93 RX 412	LCS-803G	Gray	3
93 RX 413	LCS-804G	Gray	4
93 RX 414	LCS-805G	Gray	5
93 RX 415	LCS-806G	Gray	6

List, \$69.00. NET PER STATION..... **40.60**

TALK-A-PHONE Low-Cost Intercom

DELUXE 2-STATION SYSTEMS. Top-quality intercom systems at exceptionally low cost. Presented in smartly styled matching cabinets, sturdily made of durable molded bakelite. Available in attractive walnut or light gray finish.

Provides voice communication between any two points in the home, farm, professional office, store, or other locations. Consists of one Master unit, a Substation, and fifty feet of cable. Up to 2000 feet of cable can be used. When connected "privately" the Master unit cannot listen in on the Substation. Either station may originate calls. When connected "non-privately" the Master station can listen in on the Substation. Master unit has a volume control. For operation from 110-120 volt AC-DC, U.L. Approved. Size of cabinets, 8 1/4 x 6 1/4 x 7 1/2". Shpg. wt., for the 2-station system, 11 lbs.

LC-2, 2-STATION SYSTEM. Walnut. 95 RX 840. List, \$51.00. NET..... **29.95**
LC-2G, 2-STATION SYSTEM. Gray. 95 RX 857. List, \$57.00. NET..... **33.55**
TYPE 5303. Extra 3-conductor cable. 49W 604. Wt., 100', 4 lbs. Per Ft..... **3c**

"MUSIC MONITOR" RADIO-INTERCOM

- Save Steps by Instantly Conversing from Room to Room
- Be Safe by Answering the Doorbell from Master Station
- Enjoy AM Radio Broadcasts While Doing Household Jobs
- "Listen-In" to Nursery from Any Room in the House
- Easy to Install—Requires No Soldering or Conduit
- Economical to Own and Operate—Low Current Drain

Combined radio-intercom system for built-in installation. Provides radio reception for up to six rooms and doubles as an extremely flexible home intercom system. Includes a central Master (one required for system) and up to five Subs (indoor or outdoor types). Flush-mounts in wall for a neat "customized" installation. Handsome, antique gold finish blends well with the decor of any surroundings.

It's easy to install a "Music Monitor" intercom system. Detailed instructions describe each step. To further simplify installation, the use of conduit is eliminated; also, no soldering is required.

MASTER STATION. Offers choice of 4 functions: *Radio*, distributes program to all desired Subs; *Radio-Listen*, allows monitoring any station by Master or Subs, while still enjoying radio; *Listen*, for monitoring without radio on; *Talk*, to allow Master to talk to selected Subs. Only Master is connected to power line—distributes audio power to Subs via low-voltage cable.

SUB-STATIONS. Indoor Subs can monitor or talk to each other, by arrangement with Master. Can disconnect themselves from system for privacy. Outdoor subs, for entrance or patio, can be monitored by any indoor station and can reply when called. Model F3A outdoor sub has moisture-proof design to minimize effects of weather.

MODEL R16 MASTER STATION. Includes complete superhet radio for enjoyable AM broadcast reception. Controls: Tuning, Radio-Volume, Intercom Volume, Function Selector. Has six station-selector switches. Has a heavy-duty 3 1/2" PM speaker for natural sound reproduction. Frequency range of radio, 530-1650 kc. Tubes include: 12BE6, 12BA6, 12AV6, 12AU6, 50C5; 35W4 rectifier. Overall size, 4 3/4"x15 1/2"x3 3/4". For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 8 1/2 lbs.
95 RX 955. List, \$79.95. NET. **59.95**

MODEL F2 INDOOR SUB. With Function Selector (Monitor, Normal, Call) and Privacy Switch. 3 1/2" heavy-duty speaker delivers clear sound. 4 3/4"x9 1/2"x2 1/2" deep. Needs no power. Shpg. wt., 2 1/2 lbs.
95 R 956. List, \$11.95. NET. **8.95**

MODEL F3A OUTDOOR SUB. No controls. 3 1/2" PM speaker. 4 1/2"x5 1/2"x2 1/2" deep. Requires 3 3/4"x4 3/4" cutout. Shpg. wt., 2lbs.
93 R 490. List, \$10.75. NET. **8.05**

CABLE REQUIREMENTS. Measure from Master to each Sub. Use 4-conductor cable to indoor Subs, 2-conductor to outdoor Subs.
48 W 891. 4-conductor. Wt., per 100', 3 1/2 lbs. Per 100 ft. **2.89**
48 W 890. 2-conductor. Wt., per 100', 3 lbs. Per 100 ft. **1.76**

Bogen

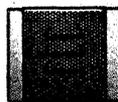
INTERCOMMUNICATION AND MUSIC SYSTEMS



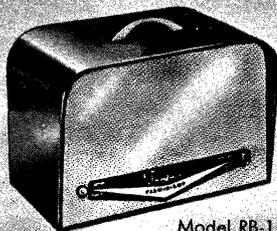
Model R16



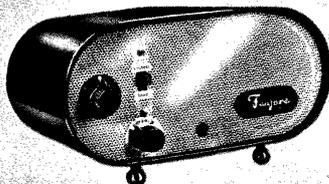
Model F2



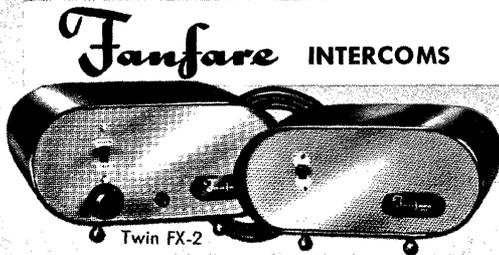
Model F3A



Model RB-1



Model FX-6



Twin FX-2

Fanon Wireless "Baby-Com"

Plays Through Any Radio . . . No Wiring

MODEL RB-1. Low-cost, 1-station wireless intercom for nursery or sickroom use. Provides "round-the-clock" protection for children, and aged or handicapped persons. Ideal as an inexpensive "baby-sitter."

Highly sensitive, the "Baby-Com" picks up the slightest sound and transmits it to any radio in your house. Transmits over distances of up to 250 feet—lets you "listen in" on the house when you are visiting next door or working in the garage. Extremely light in weight—carry it from room to room easily and quickly. Provided with sturdy, comfort-grip handle.

Exceptionally easy to operate—simply plug into AC outlet—no wiring required. Works through any AM radio, including car or battery-operated portables. Frequency is adjustable; tunes to any unused portion of the radio dial. Employs super-sensitive, 4" PM speaker as a microphone. Metal cabinet is blue with white panel. With On-Off switch and pilot light. 4 1/2"x6 3/8"x4 3/8". U.L. Approved. For 110-120 v., 50-60 cycle AC. Shpg. wt., 4 lbs.
94 R 970. List, \$19.95. NET. **14.95**

Fanon 6 & 12 Station Systems

Versatility and up-to-the-minute styling in a low-cost intercom. Steel cabinet has gray finish; front panel of white perforated metal. 4x8x4". U.L. Approved.

MASTER STATION. 1 required for each system. Can call any Master or Remote in privacy. Controls: Volume with AC On-Off; Talk-Listen; Master or Master-to-Remote Selector. For 110-120 v., 50-60 cycle AC or DC. Shpg. wt., 3 3/4 lbs.

REMOTE STATION. Has Call-Listen switch for originating calls to its Master only.

MODEL FX-6 "EXEC" MASTER. For use with system consisting of up to 6 Masters or for 1 Master and up to 5 Remotes. Can talk to any Master or Remote individually or in groups.
93 R 425. NET. **20.95**

MODEL FX-12 "MANAGER" MASTER. Use up to 12—FX-12's or 1—FX-12 and 11 FC's.
93 R 426. NET. **22.50**

MODEL FC REMOTE. Wt., 2 1/4 lbs.
93 R 427. NET. **7.97**

CABLE REQUIREMENTS. Use 3-cond. (right) from Remote to Master; 7-cond. from FX-6 to FX-6; 18-cond. from FX-12 to FX-12.

Fanon 2-Station System

MODEL TWIN FX-2. Here's the height of convenience in a 2-station intercom. Combines outstanding performance and decorator styling—all at an unusually low price. Provides intercommunication between any 2 points—even serves as a baby sitter! Includes Master station, Sub-station and 50 ft. of cable (more can be added). Master unit connects to any AC or DC wall outlet. Sub needs no power and can be placed anywhere. If desired, Sub can answer calls from a distance, without operating Talk-Listen switch. In steel cabinet with modern gray finish; contrasting front panel of white perforated metal. U.L. Approved. For 110-120 volts, 50-60 cycle AC or DC. Size, 8x4x4". Shpg. wt., 6 lbs.
95 RX 914. NET. **18.75**

MODEL FS EXTRA SUB. Use 3-cond. cable to Master. Shpg. wt., 2 lbs.
94 R 923. NET. **7.50**

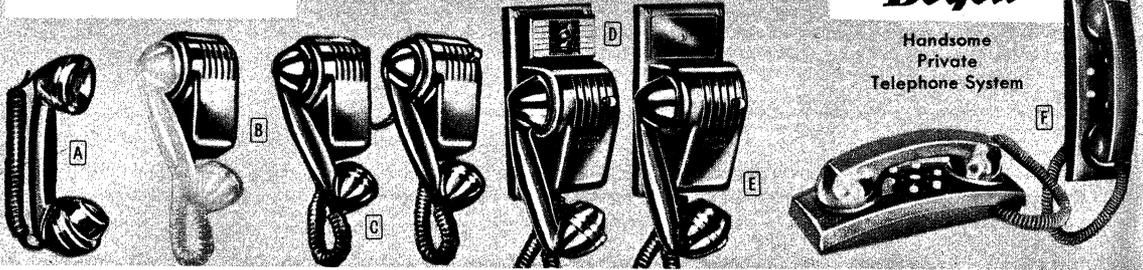
INTERCOM CABLE

Stock No.	Cond.	Wt., 100'	PER 100'
47 W 362	3	2 lbs.	2.43
47 W 322	7	4 1/2 lbs.	5.83
48 W 894	18	6 1/2 lbs.	7.79

WHEELER

SOUND-POWERED TELEPHONES

Bogen



Wheeler Sound-Powered Telephones and Systems

An excellent selection of self-contained, sound-powered telephones and systems. All units provide communication over distances to 20 miles—without batteries or other outside power. Current for transmission is generated by the voice; bell-ringing current is generated by operating bell-ringing lever. Less cable. See cable listing in right hand column.

INDIVIDUAL HANDSETS AND HOLDERS

A MODEL SPT-102 HANDSET. Self-contained telephone handset. Voice generates needed power—requires no batteries or supply line voltage. Up to 12 units may be connected in parallel. Supplied with 3½-ft. cable and clips, less wire. Uses 2-conductor, twisted-pair wire. Shpg. wt., 1½ lbs.
59 R 350. List, \$13.75. NET EACH... 9.62

A MODEL SPT-123 HI-LEVEL HANDSET. Same as above, but extra sensitive. For use where background noise is high.
59 R 360. List, \$15.40. NET... 10.78

MODEL SPT-150. Same as SPT-123 but with insulated clips.
59 R 361. List, \$16.00. NET... 11.20

B MODEL F-5308 HANDSET HOLDER. Wall mount handset holder with switch hook and terminal board for SPT-102, SPT-150 and SPT-123 handsets. For installations where separate ringing systems are to be used. 27/8x55/8x3". 1½ lbs.
59 R 355. List, \$14.00. NET... 8.40

MODEL F-4182 HANDSET HOLDER WITH BELL. Same as F-5308, above, but includes bell. Has lever to ring bell at other end of line. Up to 3 may be used in a common ringing system. Shpg. wt., 1½ lbs.
59 R 356. List, \$19.48. NET EACH... 11.69

MODEL B-5446 HANDSET HOOK. Not illus. Fastens to wall, side-of-desk, etc. 3 oz.
59 R 420. List, \$1.50. NET... 1.18

TELEPHONES FOR MULTI-SERVICE SYSTEMS

All-Master System: Consists of up to 12 SPS-205-MI masters. Any can ring and communicate with any other master, or up to 6 may be used on a conference basis. **Master-Sub System:** Consists of 1 SPS-205-MI and up to 11 SPS-205-SI subs. The master can ring and communicate with any sub; subs can ring and communicate with the master directly and can reach other subs by having the master ring the desired sub. Up to 6 stations may be used for conference. **Cable Requirements** All-Master system: 2 common wires; 1 additional wire for each station (measure from 1st to 2nd, 2nd to 3rd, etc). Master-Sub System: 3 common wires, and 1 wire from each sub to the station. Wt., 5 lbs., each station.

Stock No.	Mfr's Type	Fig.	List	NET
59 R 353	SPS-205-MI (Master)	D	61.60	36.96
59 R 354	SPS-205-SI (Sub)	E	52.25	31.35

2 & 3-PHONE SYSTEMS

C SERIES SPS. Each has lever for common bell ringing. 205-H similar to 205, but delivers higher voice level. Use 2-conductor wire for 205 and 205-3; 3-cond. for 205-H. Measure from phone 1 to 2 and 2 to 3.

Stock No.	Mfr's Type	Phones	Wt. Lbs.	List	Per System
59 R 351	205	2	7	73.15	43.89
59 RX 352	205-3	3	10	101.70	65.83
59 R 362	205-H	2	7	86.00	51.60

Bogen Telephones

Deluxe phones for office, plant or home. One PRS-1 supply (below) powers system. Push-button, selective ringing with a common-talk line (allows only one conversation at a time). Merely press button for desired station. Can be easily mounted on wall or desk. Handsomely styled in gray plastic. 9½x3¼x3¼". Less cable and power supply. **Cable Requirements:** 3-conductors plus an additional conductor for each station used.

F MODEL TP-1 2-PHONE SYSTEM. Supplied complete with 4-ft. snarl-proof cord. Shpg. wt., 9 lbs.
93 R 256. List, \$49.95. NET PER PAIR 37.45

MODEL TP-6 PHONE. For up to 7-station systems. Shpg. wt., 5 lbs.
93 R 257. List, \$27.95. NET EACH 20.95

MODEL TP-12 PHONE. For up to 13-station systems. Shpg. wt., 5 lbs.
93 R 258. List, \$29.95. NET EACH 22.45

MODEL PRS-1. Power supply for Bogen phone systems (including TP-1); use one to a system. Wires into any phone. For 110-120 v., 60 cycle AC. 4 lbs.
93 R 259. List, \$30.00. NET... 22.50

RECOMMENDED PHONE CABLES

Ideal cable for both indoor and outdoor use with Wheeler and Bogen telephones.

Stock No.	Cond.	Lbs., 100'	Per Ft.	Per 100'
48W 826	2	3	4¢	3.38
48W 825	3	4	5½¢	5.08
48W 892	6	3½	5¢	3.82
48W 893	12	6	7¢	5.44
48W 894	18	6¾	9¢	7.79

New Feiler Wireless Intercom Systems

UNITS JUST PLUG IN... NO INSTALLATION OR WIRES REQUIRED

ALL-MASTER SELECTIVE SYSTEM: Wireless intercom system for use in home, office or factory. Consists of up to 8 WM-500 Master stations. Any Master can converse privately with any other Master—4 separate conversations can be carried on at same time. Features: front panel static eliminator; automatic volume control; up-to-the-minute styling; noise reduction circuits; superior sensitivity; "constant transmit" provision; and separate Off-On switch. Channel selector dial simplifies operation; conference can be carried on when all stations dial same channel. U.L. Approved. For 110-120 v., 50-60 cycle AC or DC. Size and shpg. wt., each Master: 5½x14¼x5½"; 14 lbs.

MASTER-STAFF SYSTEM: Wireless intercom system consisting of one WM-500 Master station and up to seven WS-700 Staff stations. Staff stations can originate calls to Master; in addition, Staff stations can receive private calls from Master. All Staff stations have features similar to Masters described at left, but do not have dial selector and automatic volume control. More than 7 Staff stations may be used by sharing channels. System is for use where persons at Staff stations do not have to communicate with other Staff stations, but must talk with a central Master location. For 110-120 v., 50-60 cycle AC or DC. Size and shpg. wt., each Staff: 5½x14¼x5½"; 8 lbs.

Stock No.	Mfr's Type	Station	List	NET EACH	Stock No.	Mfr's Type	Station	List	NET EACH
91 RX 570	WM-500	Master	\$125.00	74.95	91 RX 574	WS-700-4	Channel 4 Staff	\$66.70	39.95
91 RX 571	WS-700-1	Channel 1 Staff	66.70	39.95	91 RX 575	WS-700-5	Channel 5 Staff	66.70	39.95
91 RX 572	WS-700-2	Channel 2 Staff	66.70	39.95	91 RX 576	WS-700-6	Channel 6 Staff	66.70	39.95
91 RX 573	WS-700-3	Channel 3 Staff	66.70	39.95	91 RX 577	WS-700-7	Channel 7 Staff	66.70	39.95

LOW-COST 2-STATION WIRELESS SYSTEM

MODEL WD-300-2. A complete 2-station deluxe wireless "starter" system. Consists of two single-channel stations, similar in features to the WS-700 Staff stations described above. Ideal for home use and paging applications. Additional stations (right) may be added—all stations receive message at the same time any one unit is sending. Exceptionally easy to install—simply plug into any convenient outlet for instant use; no special tools required.

Heavy-duty, durably constructed steel cabinets. Each cabinet, 5½x14¼x5½". Underwriters' Laboratories Approved. For operation from 110-120 volts, 50-60 cycle AC or DC. Shpg. wt., 16 lbs.
91 RX 580. List, \$132.50.
NET PER SYSTEM... 79.50

MODEL WD-300-1. Single station for expanding above system. Shpg. wt., 8 lbs.
91 RX 581. List, \$66.25. NET... 39.75

FEILER



WM-500 Master



WS-700 Staff

Perma-Power

**ELECTRONIC
GARAGE DOOR
OPENER**



Automatically Opens Garage Door From Car

NET

\$139.90

\$13.99 Down

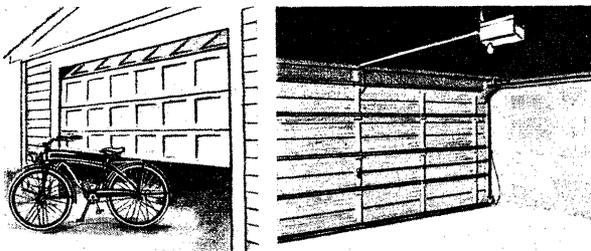
- Simple Push-Button Operation
- Handy Time-Delay Light Shutoff
- Fully Automatic Safety Devices
- Installed Without Special Tools

Just touch a pushbutton on your car's dashboard—the garage door rolls up and the light goes on! Press pushbutton again to close and lock the door securely—or use the wall-mounted pushbutton at the garage exit. A tremendous convenience in bad weather—and it also offers protection for members of family coming home late at night. The transmitter sends out a signal when pushbutton on dash is pressed. Receiver in garage picks up signal, turns on the garage light and actuates the lifting mechanism. When pushbutton is pressed the second time, the motor reverses to close the door and lock it securely. Power shuts off automatically if obstruction blocks path of door travel. Door can be operated manually in event of power failure. Has thermal overload switch for complete electrical protection.

Features added convenience of a time-delay light shutoff switch. This handy, built-in unit keeps the light in the garage burning for a few minutes after the door has been shut—gives you plenty of time to enter the house without stumbling through darkness.

Transmitter operates from either 6 or 12-volt car battery. Crystal-controlled operation on FCC-authorized frequency of 27.255 mc. Receiver has only three tubes for low power drain and uses low-voltage control system. Attractive, modern design housing encloses motor and receiver units. With handy pushbutton and 22 ft. of wire to permit operation of door without radio control. Fits overhead, residential garage doors up to 18 ft. wide and 8 ft. high using a horizontal or curved roller track. Designed for use with either 1-piece or sectionalized doors. Clearance required between ceiling and high arc of door travel, only 2". All necessary parts and hardware are supplied—plus easy-to-follow instructions for quick, simplified installation. Mechanism and receiver operate from 110-120 volts, 50-60 cycle AC.

System includes door mechanism, 1/4-hp motor, transmitter, receiver, antennas, manual pushbutton, overhead light, all hardware, tubes, wire, and instructions. Shpg. wt., 95 lbs.
77 SZ 290. List, \$199.95. Only \$13.99 Down. NET..... 139.90



Power shuts off automatically if path of door travel is blocked—prevents accidental damage to obstruction or mechanism.

Built-in overhead light illuminates garage when door is opened—light stays on several minutes after door is locked.

EXTRA TRANSMITTER. For 2-car families. Permits operation of system from either car. With antenna, mounting hardware, installation instructions, etc. Shpg. wt., 7 lbs.
77 SX 272. List, \$34.50. Only \$2.45 Down. NET..... 24.50

COMPLETE ALTERNATE SYSTEM. Same as system at left, but operates on another channel. For use where a neighbor already has a radio-controlled opener. Shpg. wt., 95 lbs.
77 SZ 295. List, \$199.95. Only \$13.99 Down. NET..... 139.90

EXTRA TRANSMITTER FOR ABOVE. For a second car. Permits operation of system from either car. Shpg. wt., 7 lbs.
77 SX 296. List, \$34.50. Only \$2.45 Down. NET..... 24.50

KEY SWITCH. Operates system manually. Mount on garage wall or install on post in driveway. With 2 keys. Shpg. wt., 8 oz.
77 S 291. List, \$6.00. NET..... 4.20

Perma-Power Radio Control System for Industrial Use

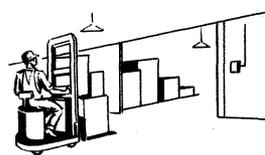
- Efficient and Safe—Hundreds of Uses
- For Remote or Portable Control Applications
- Time-Saving, Labor-Saving System

Extremely versatile radio-control system only—can be added to present electrically operated garage or plant doors. Actually a radio-controlled switch, the system may consist of any number of transmitters and receivers to actuate mechanisms or remotely control one or more operations drawing up to 3 amperes current—may be used with heavier-current devices by the addition of an auxiliary relay or relays.

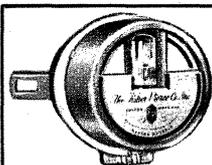
Radio control provides greater safety, efficiency and operating economy. Eliminates use of cables where they may be difficult or expensive to install, or easily damaged. Typical uses: operating any door or hatch in any type of plant; turning on area-way, parking, store or porch lights; turning on field lights and operating hangar doors from an incoming plane; turning on dock or harbor lights from a boat; operating warehouse doors from a forklift truck, etc.

Transmitter meets all FCC requirements. Employs an extremely stable, crystal-controlled, tone-modulated circuit. Operates from any 6 or 12-volt system. Receiver operates from 110-120 volts, 50-60 cycle AC and includes a built-in relay rated 3 amps at 115 volts. Built-in filter and delay network prevents accidental operation from other signals or electrical disturbances. Constructed of top-quality components. Each unit, 4 1/2 x 5 5/8 x 4 3/4"; with antenna and all mounting hardware.
77 SX 293. RC 200 RP Receiver, 6 lbs. NET..... 40.67
77 SX 294. RC 200 TP Transmitter, 8 lbs. NET..... 43.61

Light-duty remote control transmitter and receiver system (NET \$56.00) available on special order. Extra-heavy duty units (including multi-channel transmitters) available on special order. Write to Allied's Technical Service Dept. for "Special Application Data Form."



Depend on Allied for Your Industrial Electronic Needs

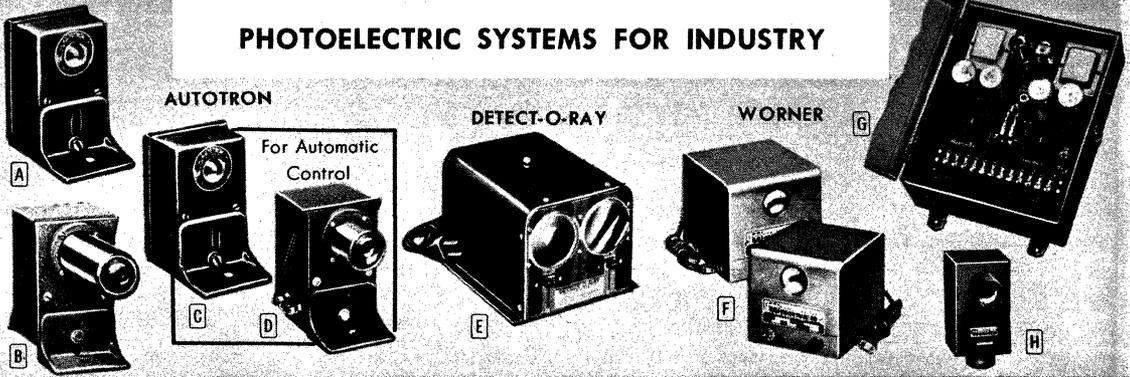


**FISHER-PIERCE
63305-C
BEACON LIGHT
CONTROL**

High-quality light control unit for outdoor lighting systems. Turns lighting systems on or off when outdoor light intensity changes. Turns on lights when darkness falls regardless of time. No clock to set. Has 7-10 second delay to prevent actuation by short duration light source. SPST double-break contactor. Controls up to 3000 watts. Meets all CAA requirements. Adjustable turn-on, 25-45 foot-candles. Turn-off is 20 foot-candles higher. Lights remain on in event of circuit failure. Weatherproof housing, 8 1/2" mtg. ctrs., 6 1/4" deep. For operation from 105-135 v., 50-60 cycle AC. Shpg. wt., 9 1/2 lbs.
77 P 048. NET..... 53.90

MODEL 63300C STREET LIGHT CONTROL. Similar to above, but turns on light at 1.0-5.0 foot-candles and has SPDT double-break contactor. Rated 2000 watts normally open; 3000 watts normally closed. Turn-off point 1.0 foot-candle above turn-on. Shpg. wt., 9 1/2 lbs.
77 P 054. NET..... 50.96

PHOTOELECTRIC SYSTEMS FOR INDUSTRY



AUTOTRON PHOTO ELECTRIC EQUIPMENT

A MODEL L1A STRAIGHT FIXED BEAM LIGHT SOURCE. Has $\frac{3}{4}$ " dia. straight, fixed beam. May be mounted up to 8 feet away from Models S1A and T1A Photoelectric Controls (below). Housed in dustproof aluminum case, $5\frac{3}{4} \times 4 \times 3$ ", with adjustable mounting bracket. Tapped for $\frac{1}{2}$ " conduit. For operation from 115 or 230 v., 50-60 cycle AC. Shpg. wt., 3 lbs.
77 P 234. NET. 14.30

B L3A ADJUSTABLE FOCUS SAFETY LIGHT SOURCE. For detecting small objects and movements not large enough to interrupt fixed beams. Focuses down to a spot $\frac{3}{16} \times \frac{1}{4}$ " and $\frac{1}{4}$ " away. Opens up to a straight light beam of $1\frac{1}{2}$ " dia., which may be placed up to 13 feet away from either Model S1A or T1A (below). $5\frac{1}{4} \times 3\frac{1}{2} \times 6\frac{1}{2}$ ". For 115 or 230 v., 50-60 cycle AC. Shpg. wt., $4\frac{1}{2}$ lbs.
77 P 246. NET. 29.30

C MODEL S1A DARK-ENERGIZED PHOTOELECTRIC CONTROL. For industrial counting or detection. Requires 20 foot-candles minimum light. Takes only .06 second after beam is completely interrupted to actuate SPDT relay. Contacts rated at 8 amps, 115 volts AC, non-inductive load. Size, $5\frac{3}{4} \times 4 \times 5$ ". For 115 or 230 v., 50-60 cycle AC. Shpg. wt., 3 lbs.
77 P 247. NET. 38.75

D MODEL T1A DARK-ENERGIZED PHOTOELECTRIC TIMING CONTROL. Interruption of light beam starts timing period—when time is up, SPDT plate relay energizes. Timing period is adjustable from 1-10 seconds. Timing accuracy, 3%. Contacts rated at 5 amps, 115 v. AC non-inductive load. Size, $5\frac{1}{4} \times 3\frac{1}{2} \times 6\frac{1}{2}$ ". For 115 or 230 v., 50-60 cycle AC. Shpg. wt., 3 lbs.
77 P 248. NET. 57.50

DETECT-O-RAY EQUIPMENT

E MODEL L-162C PHOTOELECTRIC SWITCH. Universal photoelectric system in one case. Includes: Light which projects a conventional beam; a filter controlled by a lever which can be shifted to the front of the light if an "unseen" beam is desired; a photo-cell receiver; an amplifier, and a relay for an alarm or similar device. Also has switch to permit choice of intermittent or continuous operation of the actuated device. System is installed on one side of an area to be controlled, and an adjustable mirror (included) is installed on the opposite side. Range: 50 feet, white beam; 35 feet, "unseen" beam. Terminals for 8 or 10 volt AC, $\frac{3}{4}$ amp; or for the heavy-duty relay listed below. $5 \times 6\frac{1}{4} \times 7\frac{1}{2}$ ". For 110-120 v., 50-60 cycle AC. Indoor use only. Shpg. wt., 7 lbs.
77 P 060. NET. 38.86

MODEL L-205C POWER RELAY. Use with above when operating equipment up to 1,000 watts. SPDT, 110 v., 50-60 cycle AC contacts with outlets for normally on or normally off functions. $4\frac{1}{4} \times 2\frac{1}{2} \times 2\frac{1}{2}$ ". For 110-120 v., 50-60 cycle AC. Shpg. wt., $1\frac{1}{4}$ lbs.
77 P 061. NET. 10.81

WORNER PHOTOELECTRIC SYSTEMS

F MODEL 4000 "WATCHMAN." An economical indoor alarm system. For the home, office, garage, warehouse, workshop, etc. An invisible light beam fully protects the area to be covered. Consists of matching exciter lamp unit and electronically operated relay. A built-in power supply provides 6 volts AC—any type of electrical alarm can be used with the relay unit. Toggle switch permits choice of continuous or intermittent alarm operation; also serves as reset switch if continuous alarm is used. Exciter lamp unit has 2 pre-focused f6 lenses for maximum light dispersion; infra-red filter to provide "unseen" beam. Relay unit has extraneous light reflector to maintain daylight range; variable sensitivity control. Range: 35 feet for black light, 50 feet for white light. Both units are in attractive hammerlock cases. Size, $5 \times 5 \times 5\frac{1}{2}$ ". For 110-120 v., 50-60 cycle AC. Shpg. wt., 14 lbs.
77 PU 232. NET. 47.04

MODEL 62 R & L TWO-UNIT SET (not illust.). 62-R receiver and 62-L light source. Useful for many simple operations—detects objects over 2" square with a directional beam covering distances from a few inches up to 75 feet. Up to 300 relay operations per minute. SPDT relay contacts rated at 5 amps, 110 v., 50-60 cycle AC, non-inductive. Relay unit has meter jack for easy connection to 0-30 ma meter to determine correct cut-off and plate current. Light source, $6\frac{1}{4} \times 7 \times 4\frac{1}{4}$ "; receiver, $7 \times 6\frac{1}{4} \times 4\frac{1}{2}$ ". For 110-120 v., 50-60 cycle AC. Shpg. wt., 13 lbs.
77 PU 228. NET. 76.88

WORNER "FOTOELECTRIC" SYSTEM. Consists of Model 63 Relay, Model 33 Exciter Lamp and Model 23 Photo-cell Receiver. Model 33 has general-purpose (interchangeable) lens which provides a straight directional beam; may be placed up to 10 feet from Model 23 to detect objects of about 2" square or larger. Both exciter lamp and photo-cell units are housed in identical heavy-duty stainless-steel metal case to withstand dampness. Lenses for specific applications, time-delay relays and extra-sensitive relays are available on special order. Write to Allied's Industrial Division.

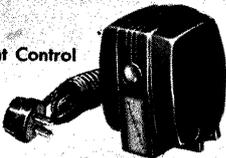
G MODEL 63 ELECTRONICALLY OPERATED DPDT RELAY. Responds to current from photocell. Contacts rated at 5 amps, non-inductive; 2 amps inductive at 110 v., 50-60 cycle AC. Operates up to 600 times per minute on complete or partial change of light intensity. Steel case, $9\frac{1}{4} \times 11\frac{1}{2} \times 5$ ". For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 22 lbs.
77 PU 085. NET. 101.07

H MODEL 33 EXCITER LAMP. Light source. Projects beam 10 feet. Gray cast-iron case. Size, $4\frac{1}{4} \times 2\frac{3}{4} \times 2\frac{3}{4}$ ". For 6 v. operation. Takes power from Model 63 relay. Shpg. wt., 3 lbs.
77 P 087. NET. 15.67

MODEL 23 PHOTO-CELL RECEIVER. Housed in same type of case as Model 33. Shpg. wt., 3 lbs.
77 P 090. NET. 19.55

Photoelectric Equipment Designed for Home Use

Light Control



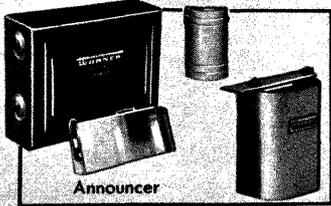
FISHER-PIERCE LIGHT CONTROL

Unusually economical, smooth-operating photo-electric switch. Turns electric lights on or off, depending on amount of daylight striking photocell. Simple installation—just plug into outlet and plug lights into control unit. Perfect for store windows, porch lights, outdoor signs, etc. Turns lights on as darkness approaches, turns them off at dawn. Excellent for burglary protection during vacation periods. Not a time switch—responds to light alone. Completely automatic—no need to set or reset. Light control is housed in attractive sturdy brown bakelite case. Has convenient bracket for flat surface mounting if desired. Capacity, 300 watts. Complete with 6-ft. cord set with adapter plug. For interior use only. Size: $3\frac{1}{2} \times 4\frac{1}{2} \times 3\frac{1}{2}$ ". For operation from 110-120 v., 60 cycle AC. Shpg. wt., 3 lbs.
77 P 235. List, \$15.95. NET. 10.94

WORNER "FOTOELECTRIC" ANNOUNCER

MODEL 61. Chime announces people or vehicles when light beam is intercepted. Consists of "Fotoelectric" unit, mirror and chime. Unit has exciter lamp and sensitive photo-cell. Projects beam across passage and receives reflected beam from mirror; may be placed 3 to 10 feet from mirror. Size, $8\frac{1}{4} \times 6\frac{1}{2} \times 2\frac{3}{4}$ ". For 110-120 volts, 50-60 cycle AC. Wt., 8 lbs.
77 P 028. NET. 32.34
REPLACEMENT BULB. 32-candlepower, 2000-hour 6-volt bulb. For Models 33 and 61 (above). Shpg. wt., 5 oz.
77 P 023. NET. 65c
REPLACEMENT CHIME. For Model 61. May also be used with any other 6-volt AC power supply. Excellent warning device for home or store. Shpg. wt., 2 lbs.
77 P 035. NET. 3.67

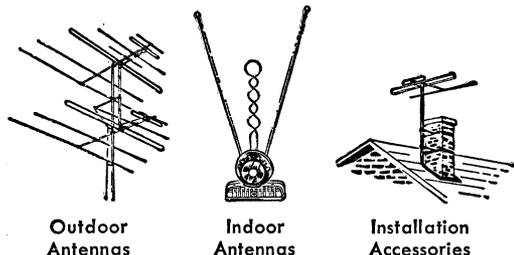
Announcer



Select Your TV Antenna From Allied's Complete Top-Quality Lines

BOOST YOUR VIDEO POWER and enjoy sharper, clearer TV pictures, unmarred by "ghosts" and interference. Allied carries the world's largest stock of antennas and accessories—we have the kind of antenna that will deliver the Video Power your set needs for sharp, clear reception. See pages 337 through 359 for a complete selection of indoor and outdoor antennas, VHF and UHF types, antennas for metropolitan use, and for suburban or remote fringe areas. Make Allied your antenna headquarters—select from nationally known, top-quality brands at lowest prevailing prices—your assurance of maximum value.

How to Select Your TV Antenna

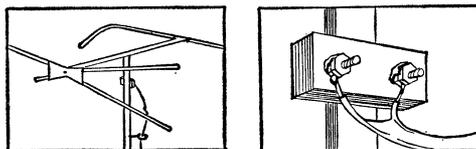


Most VHF TV broadcasts (channels 2 through 13) can be reached at distance up to 200 miles when the proper antenna is used. To assist you in selecting an antenna for your particular location, the antennas on this page and the following pages have been identified with 1, 2, 3 or 4 stars to indicate range as given below. When in doubt, select an antenna in next higher group.

- ★ Metropolitan-Suburban (up to 35 miles).
- ★★ Semi-Fringe (up to 50 miles).
- ★★★ Fringe (up to 75 miles).
- ★★★★ Deep-Fringe (up to 125 miles).

Stacking two of the same type antennas will give up to 50% more signal strength. Stacking is recommended in installations located over 125 miles from the TV station. Obstructions such as tall buildings or hills near your location may necessitate stacking at distances less than 100 miles. All of the TV antennas in this Catalog may be used for reception of both black-and-white and color TV broadcasts.

A Weather-Worn Antenna Can Spoil Your TV Enjoyment



Weather-worn Elements Bent Elements

Corrosion Around Connectors

ENJOY THE BEST PICTURE QUALITY your set can deliver—check your antenna before you blame your set for poor reception. "Ghosts," "snow" and other interference may be caused by a weather-worn antenna system. Bent, broken, or corroded antenna elements and connectors can ruin picture quality. Because weathering is so gradual, picture quality may decrease unnoticeably until brilliance and detail are far below standard. However, a new Allied antenna of latest design can restore picture quality—installation is easy and the improvement will amaze you.

DEPEND ON ALLIED for the best antenna. Whether your location calls for a simple indoor antenna or an elaborate fringe-area array, Allied has the antenna you require. Our world's-largest stocks include latest anodized types, complete antenna kits, handsome indoor antennas, and a full selection of installation accessories. Feel free to use our consultation service—we will promptly recommend the proper antenna. See pages 337-359 for complete listings.

★★★★ Kit Featuring All-Channel's "Riviera" VHF Antenna

- NET
\$31³²
- Provides Excellent Deep-Fringe Reception
 - 9-Position "Electronic Rotation" Switch
 - Includes All Installation Accessories
- \$3.13 Down

Famous "Riviera" all-directional antenna plus installation accessories. Ideal for fringe areas where reception is possible from several different directions. Provides "electronic" rotation over 360° (without a motor-driven rotator) through use of a selector switch located at TV receiver. The 9-position switch allows selection of the proper set of elements for best signal pickup from any direction. Accessories include chimney mount, two 5-foot masts, 100 feet of 4-conductor cable and 8 standoffs. 15 lbs. *Express or truck only.*

92 CU 137. \$3.13 Down. NET.....31.32

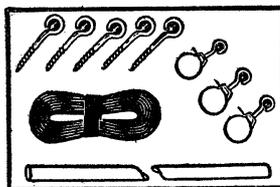
"RIVIERA" ANTENNA AND SWITCH. As above, but less installation accessories. Shpg wt., 10 lbs.

98 CU 495. List, \$36.75. NET.....19.85

WIRE FOR "RIVIERA" AND "SUBURBAN". 4-conductor lead-in wire. Shpg. wt., 100 ft., 2 lbs.

47 TX 589. 100-ft. Coil. NET.....8.90

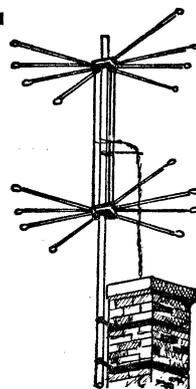
47 W 599. Over 100 ft., PER 100 FT.....8.90



Accessories Supplied with "Riviera" Antenna Kit



9-Position Switch—allows selection of antenna elements to obtain clearest picture from any direction



★★ "SUBURBAN" ANTENNA

Excellent semi-fringe antenna. 9-position selector switch for peak signal pickup from any direction. Switch-to-set coupler; 2—mast and 2—screw-insulators; 70-ft. 4-cond. wire. Less mast. 5 lbs.

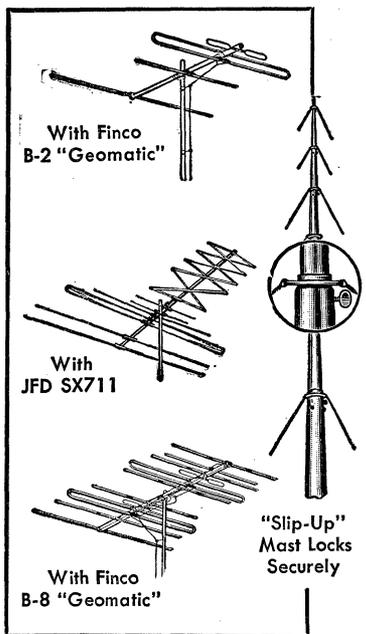
92 CX 060. List \$21.50. NET.....12.90

Allied's Fringe-Area Antenna Kits

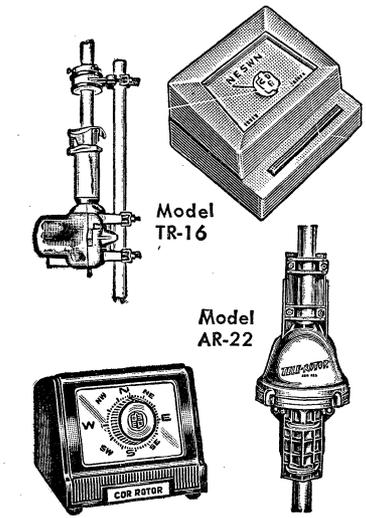
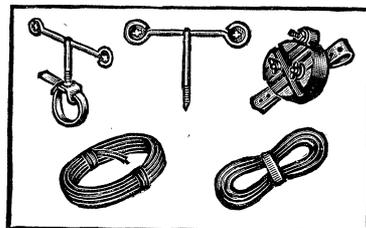
**Complete with Mast and All Installation Accessories
For Color and Black-and-White TV Reception**

Completely Packaged—Ready for Quick and Easy Installation

- Available with 20, 30 or 40-ft. Mast
- Rotator for Antenna Direction Control
- Complete with All Hardware
- Choice of 3 Famous-Make Antennas
- Detailed Installation Instructions
- Top Quality Throughout



Complete with Installation Accessories



These deluxe, value-packed kits have been selected by Allied's antenna experts to meet practically any TV antenna requirement. Complete in every detail—there's nothing else to buy—and the package prices are actually less than the total cost of the components purchased individually. Provide outstanding fringe-area reception for color and black-and-white receivers.

CHOICE OF PACKAGES. Kits for "Semi-Fringe," "Fringe," and "Deep-Fringe" areas are listed with a choice of 20, 30 or 40-foot masts. The distance to TV stations determines which antenna to use, and local terrain (hills, trees, tall buildings, etc.) determines mast height. Rotator permits pointing antenna in any direction for excellent reception of any station. Meter on rotator control box indicates exact antenna direction.

All kits are complete with rugged, weather-resistant antenna; telescoping mast of heavy, galvanized steel; all-angle mast mount; guy wire; 100 ft. of twin line; 50 ft. of ground wire; ground rod; twin-line lightning arrester; guy wire hook-eyes; mast standoff insulators; woodscrew standoff insulators (plus 6 turnbuckles in 40-ft. antenna kits). Kits with rotator also include 10-ft. antenna mast; 100 ft. of rotator cable; and rotator cable lightning arrester. Complete instructions with each kit. Rotators are for 110-120 v., 60 cycle AC. *Shipped by express or truck only.*

★★ SEMI-FRINGE ANTENNA KITS

KIT A-20. Includes two-section, 20-foot telescoping mast; Finco Model B-2 "Geomatic" TV antenna for clear, ghost-free reception on channels 2 to 13; exceptionally rugged, CDR Model TR-16 rotator; and accessories. Shpg. wt., 47 lbs.

92 CZ 175. NET.....47.09

KIT A-20-L. As above, less rotator. Shpg. wt., 25 lbs.

92 CZ 153. NET.....14.06

KIT A-30. Same as Kit A-20, but with 30-foot mast. Shpg. wt., 63 lbs.

92 CZ 176. NET.....50.49

KIT A-30-L. As above, less rotator. Shpg. wt., 41 lbs.

92 CZ 154. NET.....16.67

KIT A-40. Same as Kit A-20, but with 40-foot mast. Shpg. wt., 74 lbs.

92 CZ 177. NET.....54.96

KIT A-40-L. As above, less rotator. Shpg. wt., 52 lbs.

92 CZ 157. NET.....21.24

★★★★ DEEP-FRINGE ANTENNA KITS

KIT C-20. Includes two-section, 20-foot telescoping mast; deluxe, five-element Finco Model B-8 "Geomatic" TV antenna for excellent reception on channels 2 to 13; heavy-duty CDR Model AR-22 rotator (for mast, tower or platform mounting); and all installation accessories. Shpg. wt., 55 lbs.

92 CZ 181. NET.....68.40

KIT C-20-L. Same as C-20 deep-fringe kit described above, but does not include Model AR-22 antenna rotator. Shpg. wt., 31 lbs.

92 CZ 162. NET.....30.03

★★★ FRINGE ANTENNA KITS

KIT B-20. Includes two-section, 20-foot telescoping mast; extremely effective JFD Model SX711 TV antenna for channels 2 to 13; heavy-duty, fully automatic CDR Model AR-22 rotator; and all installation accessories. Shpg. wt., 50 lbs.

92 CZ 178. NET.....61.92

KIT B-20-L. As above, less rotator. Shpg. wt., 26 lbs.

92 CZ 158. NET.....23.55

KIT B-30. Same as Kit B-20, but with 30-foot mast. Shpg. wt., 66 lbs.

92 CZ 179. NET.....65.33

KIT B-30-L. As above, less rotator. Shpg. wt., 42 lbs.

92 CZ 159. NET.....26.57

KIT B-40. Same as Kit B-20, but with 40-foot mast. Shpg. wt., 77 lbs.

92 CZ 180. NET.....69.80

KIT B-40-L. As above, less rotator. Shpg. wt., 53 lbs.

92 CZ 161. NET.....31.04

KIT C-30. Same as Kit C-20, but with 30-foot mast. Shpg. wt., 71 lbs.

92 CZ 182. NET.....71.81

KIT C-30-L. As above, less rotator. Shpg. wt., 47 lbs.

92 CZ 163. NET.....33.05

KIT C-40. Same as Kit C-20, but with 40-foot mast. Shpg. wt., 82 lbs.

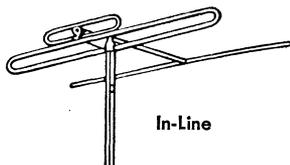
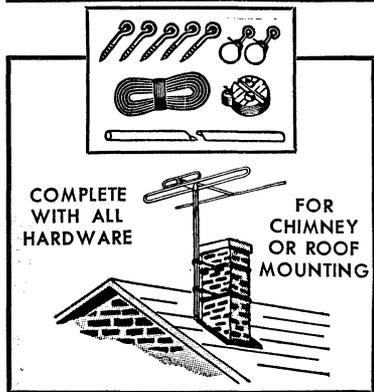
92 CZ 183. NET.....76.28

KIT C-40-L. As above, less rotator. Shpg. wt., 58 lbs.

92 CZ 164. NET.....37.52

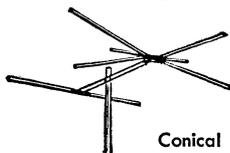
knight TV and FM Antenna Kits

COMPLETE AND READY TO INSTALL—MOUNTING HARDWARE INCLUDED

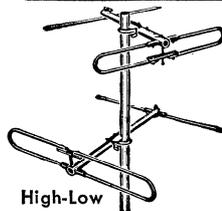


In-Line

High Quality
Budget Price

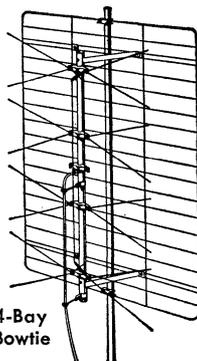


Conical



High-Low

Time-Saving
"Quick-Rig" Design
Swing Elements in
Place and Tighten!



4-Bay
Bowtie

FAMOUS knight COMPLETE TV ANTENNA KITS

★IN-LINE ANTENNA KITS

NET \$818 WITH CHIMNEY MOUNT. A complete VHF antenna kit with chimney mount and accessories—at a money-saving price. Provides exceptional picture quality. Ready for quick and easy installation. Includes: An efficient, time-proven, in-line antenna; sturdy 5-ft. mast; 75-ft. of 300-ohm twin line; U.L. Approved lightning arrester; five 3 1/2" woodscrew standoff insulators; two clamp-type mast standoff insulators; and rugged chimney mount. Antenna elements are high-quality 1/2" seamless aluminum tubing. Shpg. wt., 10 lbs.

92 CX 045. 6 or More, EACH...7.36 1-5, EACH...8.18

WITH ROOF MOUNT. As above, but with roof mount.
92 CX 041. 6 or More, EACH...7.06 1-5, EACH...7.84

IN-LINE ANTENNA ONLY. Less accessories. 5 lbs.
92 CX 042. 6 or More, EACH...4.37 1-5, EACH...4.86

★HIGH-LOW ANTENNA KITS

NET \$778 WITH CHIMNEY MOUNT. Exceptionally popular two-section antenna featuring individually adjustable sections for top performance on high and low VHF bands. Minimizes "ghosts" and "snow." Includes: Sturdy 5-ft. mast; 5 woodscrew standoff insulators; 2 mast standoff insulators; 75-ft. of 300-ohm twin line; U.L. Approved lightning arrester; and antenna. Antenna elements are 1/2" aluminum tubing. Shpg. wt., 10 lbs.

92 CX 048. 6 or More, EACH...7.00 1-5, EACH...7.78

WITH ROOF MOUNT. As above, but with roof mount.
92 CX 047. 6 or More, EACH...6.38 1-5, EACH...7.09

HIGH-LOW ANTENNA ONLY. Less accessories. 5 lbs.
92 CX 016. 6 or More, EACH...4.30 1-5, EACH...4.78

★NEW UHF 4-BAY BOWTIE ANTENNA KIT

NET \$928 WITH CHIMNEY MOUNT. Easily-installed 4-bay bowtie antenna kit. Includes: 2—3-ft. masts; 3 woodscrew standoff insulators; 2 mast standoff insulators; 50-ft. of 300-ohm twin line; lightning arrester; and antenna. Elements are 1/2" aluminum tubing. 12 1/2 lbs.

91 CU 833. 6 or More, EACH...8.25 1-5, EACH...9.28

WITH ROOF MOUNT. As above, but with roof mount.
91 CU 834. 6 or More, EACH...6.98 1-5, EACH...7.76

4-BAY UHF BOWTIE ANTENNA ONLY. Wt., 5 1/2 lbs.
91 CU 835. 6 or More, EACH...4.33 1-5, EACH...4.81

CONICAL ANTENNA KITS

NET \$633 ★ SINGLE-BAY WITH CHIMNEY MOUNT. Value-packed antenna kit for excellent reception on all VHF TV channels. Kit includes: Conical antenna; sturdy 5-ft. mast; 50-ft. of twin line; 2 mast standoff insulators; 4 wall standoff insulators; lightning arrester; chimney mount. Everything needed to make a complete, first-class TV antenna installation is included at one low price. Shpg. wt., 7 lbs.

92 CX 174. 6 or More, EACH...5.70 1-5, EACH...6.33

★ SINGLE-BAY WITH ROOF MOUNT. Includes same antenna and accessories, but has all-angle roof mount instead of chimney mount.
92 CX 135. 6 or More, EACH...5.57 1-5, EACH...6.19

★ 2-BAY WITH CHIMNEY MOUNT. As above, but with 2-bay conical antenna to give added gain and sensitivity required for excellent near-fringe VHF reception. With 10-ft. mast. Shpg. wt., 10 lbs.
92 CX 173. 6 or More, EACH...8.95 1-5, EACH...9.95

★ 2-BAY WITH ROOF MOUNT. As above, but with roof mount. Shpg. wt., 10 lbs.
92 CX 133. 6 or More, EACH...8.64 1-5, EACH...9.60

★ SINGLE-BAY ANTENNA ONLY. Less accessories. 3 lbs.
92 CX 136. 6 or More, EACH...2.88 1-5, EACH...3.20

STACKING KIT. For stacking two single-bay conicals to make a two-bay array. Shpg. wt., 8 oz.
97 CX 389. NET64c

STACKING KIT. For stacking two 2-bay conicals to make a four-bay array. Shpg. wt., 1 1/4 lbs.
97 CX 387. NET.....1.70

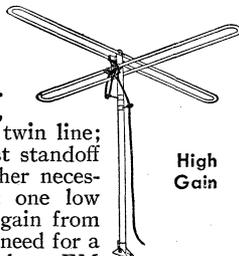
ALL-DIRECTION FM ANTENNA KIT

NET

\$784 • Superb Reception
• Ideal for Hi-Fi

Top-quality FM antenna kit. Complete kit includes: rugged, 5-ft. mast; 50-ft. of 300-ohm twin line; sturdy mounting base; 1 mast standoff insulator antenna; and all other necessary mounting hardware—at one low price. Provides uniform high gain from all directions—and eliminates need for a rotator. Ideal for locations where FM stations are received from many directions. Has excellent response across entire FM band. 7 1/4 lbs.

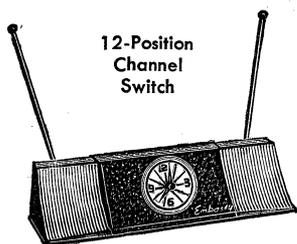
92 CX 583. 6-Up, EACH...7.06 1-5, EACH...7.84



High
Gain

Indoor TV Antennas

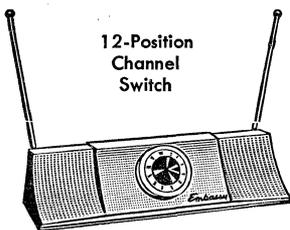
ALL-CHANNEL ANTENNAS



12-Position
Channel
Switch

FOR VHF
RECEPTION

Fits Into
Any Room
Decor



12-Position
Channel
Switch

EMBASSY SERIES

Antenna-Clock. Combines the famous "Embassy" indoor TV antenna and finest quality Sessions clock in one attractive unit. All-brass telescoping arms easily adjusted for optimum reception, features exclusive 12-position dual control switch—eliminates or greatly reduces ghosts and interference. Satin-gold trim. With 6 ft. of twin line and 12-ft. AC cord. Size, 14x4x3 1/2". Clock operates from 110-120 v., 60 cycle AC. Shpg. wt., 3 lbs.

71 CX 538. Mahogany finish.

71 CX 542. Maple Walnut finish.

71 CX 571. Ebony finish.

71 CX 599. Ivory finish.

List Each, \$24.95. NET EACH. 13.92

Antenna Only. Extremely popular indoor antenna. Provides excellent reception in metropolitan areas. Exclusive 12-position switch assures sharp clear pictures on all channels from 2 to 13 with a minimum of ghosts and interference. Four-section, all-brass telescoping arms provide the increased signal gain required for reception in unfavorable locations. Complete with 6 ft. of twin line. Size, 14x4x3 1/2". 2 1/2 lbs.

92 CX 066. Mahogany finish.

92 CX 574. Maple Walnut finish.

92 CX 067. Ebony finish.

92 CX 068. Ivory finish.

List Each, \$19.95. NET EACH. 9.95

REMBRANDT UHF-VHF SERIES

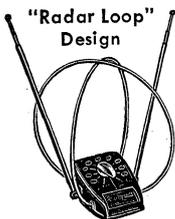
Deluxe indoor antenna featuring "radar loop" design plus all-angle telescoping dipoles. Delivers clear all-channel reception. Convenient 12-position switch permits adjustment of antenna for maximum efficiency—highly effective in eliminating ghosts and interference. "Radar" loops are inductively coupled to the telescoping dipoles. Dipoles and loops can easily be adjusted to provide best reception. Luminous numerals—easily visible in darkened room. Wide rectangular base prevents tipping. With twin lead. Shpg. wt., 3 1/2 lbs.

92 CX 062. Model M-100. Mahogany finish.

92 CX 064. Model E-100. Ebony finish.

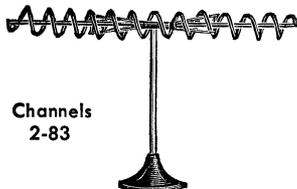
92 CX 065. Model I-100. Ivory finish.

List Each, \$16.95. NET EACH. 9.95



"Radar Loop"
Design

HI-LO ANTENNAS



Channels
2-83

UHF-VHF "SPIRAL-TENNA"

Model 202. Here's a popular, well-engineered indoor antenna. Gives excellent gain over the entire UHF-VHF bands (channels 2-83). Minimizes "ghosts" and interference. Requires no adjustment. Gold finish. Sturdy tip-proof base. Height 14"; width (span), 32". With 6 feet of 300 ohm twin lead. Shpg. wt., 2 lbs.

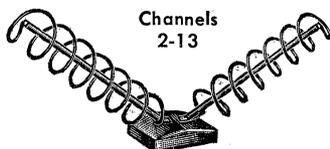
98 CX 449. 1-5, NET EACH. 5.85

6 or more, EACH. 5.26

Model 101 VHF. Similar to Model 202 but VHF only.

97 CX 391. 1-5, NET EACH. 5.58

6 or More, EACH. 5.02



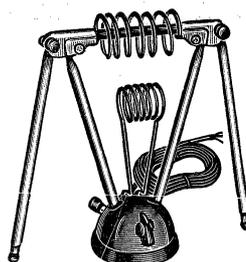
Channels
2-13

VHF "V" ANTENNA KIT

Model 606. Carefully developed indoor TV antenna for outstanding performance on all channels, 2 through 13. Features the famous "Spiral-Tenna" helical element design. Engineered specifically for picture clarity and a minimum of interference. Just rotate for optimum reception—requires no other adjustment. Tip-proof base has rubber feet to protect set. Supplied knocked-down and ready for quick assembly. With 6 ft. of twin lead. Base, 4x6x 1 1/2". Wt., 2 lbs.

92 CX 596. NET. 4.77

K-G DELTA-BEAM ANTENNAS



DELUXE UHF-VHF MODEL

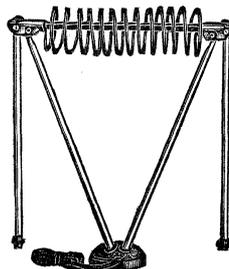
An extremely efficient all-channel indoor antenna. Provides excellent reception on VHF channels 2-13 and UHF channels 14-83. Combines the engineering principles of the helix coil, folded dipole, straight dipole and delta-match transformer.

Features six-position switch—provides fingertip control for optimum reception on each channel. Switch matches line impedance and tunes antenna to match input of receiver. Also has additional switch which is highly effective in eliminating "ghosts". Double-rod telescoping dipoles. Can easily be adjusted to the length and angle which provides highest gain and best picture.

Strikingly smart gold finish. Tip-proof, brown bakelite base has protective rubber pad to prevent marring finish of TV cabinet. Size, 9" high; each arm extends to 15". Supplied complete with 6 feet of twin line. Shpg. wt., 2 1/2 lbs.

92 C 013. 1-5, NET EACH. 5.85

6 or More, EACH. 5.26

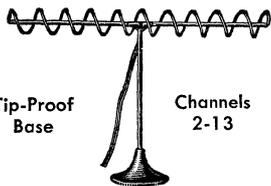


UHF-VHF ANTENNA KIT

For the do-it-yourself fan—here is an economical, high gain, Delta-Beam indoor antenna in kit form. Easily assembled without use of tools. Actually combines 4 antenna types—helix coil, folded dipole, straight dipole, and delta-match transformer. Helix coil is made of No. 10 aluminum wire. Elements are of 3/8" O.D. aluminum tubing. When assembled, arms can be swung out and locked in any position. All metal parts are finished in attractive anodized silver. Heavy, 1/8" thick, hard-rubber base has felt flocked pad on bottom to prevent marring finish of TV set. Complete with 6 feet of twin-line. Shpg. wt., 2 1/2 lbs.

92 C 011. NET. 3.63

Indoor and Window TV Antennas



Tip-Proof Base

Channels 2-13

TRICRAFT VHF ANTENNA KIT

Highly efficient VHF indoor antenna for bringing in sharp, clear pictures in metropolitan areas. Carefully engineered helix coil, rigidly mounted on sturdy, mahogany plastic base. For all channels from 2-13. Minimizes "snow," "ghosts," and interference. Requires no adjustment. Tip-proof base. Height, 14"; width (span), 32". Easy to assemble. Complete with 6-ft. length of 300-ohm twin-line, tipped with spade lugs, for quick, easy installation. Shpg. wt., 2 lbs.

92 CX 126. NET. 4.41

TELCO "HIDE-A-WAY" VHF ANTENNA

Compact, plastic-cased "Hide-A-Way" antenna. Provides excellent all-channel metropolitan-area reception. Telescoping elements are made of durable, nickel-plated brass tubing. Elements are mounted on ball-joint swivels; rotate 360° for excellent signal pick-up from any direction. Case is completely concealed behind TV set—all you see are the elements, which may be conveniently retracted. Elements are 37". Supplied complete with spade-lug-tipped 300-ohm twin line. Shpg. wt., 1 lb.



92 C 029. 5-section. NET. 1.88

knight VHF ANTENNA

Here's a popular indoor television antenna at unusually low cost. Features efficient, time-proven "rabbit ear" design. For use on VHF channels from 2 to 13—quickly and easily adjusted for clear picture with a minimum of ghosts and interference. Also excellent for FM reception. Uses sturdy, 3-section, brass-plated telescoping elements for convenient adjustment to desired length. Bakelite base is weighted to prevent tipping. Felt padding on base protects TV set. With 3 ft. of 300-ohm twin-line. Shpg. wt., 2 lbs.



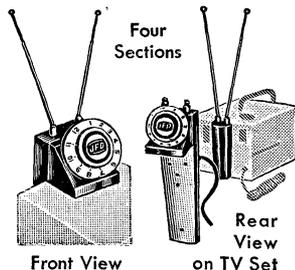
92 CX 025. NET. 1.44

QUALITY JFD ANTENNAS

"MERLIN" UHF-VHF ANTENNA

- Convenient Back-of-Set Mounting
- 12-Position Rotary Selector Switch
- Elements Have Ball-Swivel Bases

Highly-efficient, fully-adjustable indoor antenna—provides excellent reception on both UHF and VHF channels in strong-signal areas. Features up-to-the-minute back-of-set design—mounts with only the rotary selector switch and elements in view. Employs smooth-working, 4-section elements that adjust for best picture; each element is mounted on a ball-swivel to permit positioning for angle of optimum reception. 38" elements telescope conveniently out of sight when not in use. Large, easy-to-read dial has twelve positions to provide extra-sharp pictures and clear sound. Lustrous plastic construction blends well with the styling of any TV set. Attaches easily and securely to back of set with screws supplied. Includes 300-ohm twin line with spade lugs attached and instructions. Shpg. wt., 1 lb.



Front View

Rear View on TV Set

92 C 572. Model L20. Mahogany. NET EACH. 4.95
92 C 573. Model L10. Blonde. NET EACH. 4.95

"MAGIC GENIE" UHF-VHF ANTENNA

Smartly-styled UHF-VHF indoor antenna similar to the "Merlin" above, but with additional features. Employs a printed circuit unit for superior indoor performance. Offers choice of three methods of mounting—with wood screws, machine screws or special rubber adhesive pad. Pad allows pressing "Magic Genie" onto back of set for simple, secure installation. With twin line and instructions. Shpg. wt., 1 lb.

92 C 227. Model MG850. Mahogany.

92 C 228. Model MG650. Blonde.

92 C 229. Model MG750. Ebony.

NET EACH. 8.95

MODEL TA-147 UHF-VHF ANTENNA

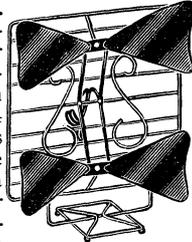
Famous indoor antenna featuring smart styling and outstanding performance. Has high signal gain; minimizes interference and ghosts. Employs 6-position impedance matching switch; permits adjustment for maximum efficiency on channel being received. Adjustable, 3-section brass dipoles easily positioned for clearest picture. Base is weighted to prevent tipping. Has felt pad; will not mar finish. Includes 5 ft. of 300-ohm twin line and spade lug terminals for quick attachment to TV set. Shpg. wt., 2 lbs.



92 CX 124. NET. 3.24

"SONATA" UHF INDOOR ANTENNA

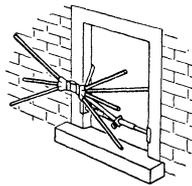
Model TA-149. Carefully constructed indoor antenna for excellent reception on channels 14 to 83—combines twin-bowtie dipoles and a screen reflector for superior picture clarity. Can be used in any strong-signal area. Interesting design accents the decorative mode of any room. Attractively finished in gold anodizing and jet-black satin enamel. Has tip-proof base with four extremely short legs. Supplied complete with 300-ohm twin lead, tipped with spade lugs for quick connection to TV set. Overall HWD is 12x12x6". Shpg. wt., 2 lbs.



92 CX 598. NET. 3.02

MODEL C119 VHF WINDOW ANTENNA

Low-cost, all-aluminum conical window antenna for strong-signal areas. Ideal for apartment buildings, hotels, etc., or wherever roof-top installations are not practical. Easily fits on outer frames of most windows—adjustable from 32" to 42" in width. Antenna can be adjusted to proper position for best reception. With mounting hardware—ready for quick, convenient installation. Less 300-ohm twin line for connection to TV set. Shpg. wt., 7 lbs.

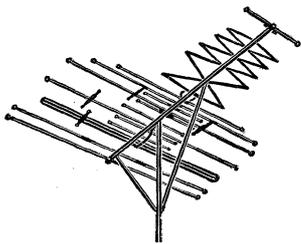


97 CX 084. NET. 5.26

JFD TV Antennas

EASY-TO-INSTALL TV ANTENNAS CONSTRUCTED OF ALCOA ALUMINUM

★★★★ MODEL VX1111 "SATELLITE HELIX"



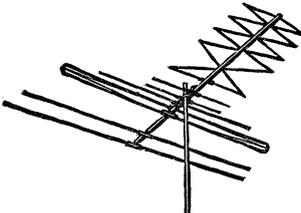
- For up to 150 Miles!
- New 28-Element Design

Deluxe antenna for superior VHF TV reception in deep-fringe areas—shrinks the miles. Features sharp directivity, very high gain and wide vertical beamwidth. Extremely rugged construction minimizes the effects of high winds, storms and heavy icing. Super-sensitive 28-element array employs a special helical highband section.

tion, plus, "balanced sleeve dipole" design. Gain is essentially flat, averaging 10 db on high bands and 6 db on low bands. Sharp directivity contributes to better ghost interference rejection—front-to-back ratio is from 15 to 25:1 on low bands and from 16 to 25:1 on high bands. Wide vertical beamwidth assures maintenance of gain in mountainous terrain. All long elements are reinforced with aluminum dowels. Heavy-duty tandem U-bolt assembly locks boom to mast—boom has two 1" tubular braces for extreme rigidity. Antenna is completely pre-assembled—just flip elements into heavy locking brackets. Less mast and 300-ohm twin line. Shpg. wt., 15 lbs.

91 CZ 821. List, \$47.50. NET.....27.93

★★★★ MODEL AX711 GOLD-ANODIZED "STAR HELIX"



- Narrow Beam Width
- Good High-Band Gain

Provides an extremely high front-to-back ratio for excellent rejection of undesired signals. Delivers top performance on all VHF channels in semi-fringe areas—can also be used in strong-signal UHF areas. Has a hard gold-anodized surface for resistance to tarnish and corrosion. Long elements are

reinforced with aluminum dowels—heavy-gauge boom is full 1" square. Designed for reduced wind resistance and ice loading. Antenna is completely pre-assembled—just flip elements into grip-locking brackets. Constructed of rugged, solid-drawn aluminum. Less mast and 300-ohm twin line. Shpg. wt., 8 lbs.

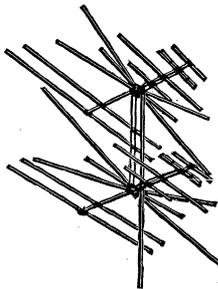
91 CZ 822. List, \$29.95. NET.....17.61

★★★★ Model AX711S. Same as AX711 above, except two bays for higher gain. Requires 10-ft. mast. Shpg. wt., 16 lbs.
91 CZ 823. List, \$61.50. NET.....36.16

Model SX711. Same as AX711, but without gold anodizing.
92 CZ 113. List, \$25.50. NET.....14.99

Model SX711S. Same as AX711S, but without gold anodizing.
92 CZ 112. List, \$52.50. NET.....30.87

★★★★ MODEL JET213S "SUPER JET"



- Dowel-Reinforced Elements
- 1" Square Heavy-Wall Boom

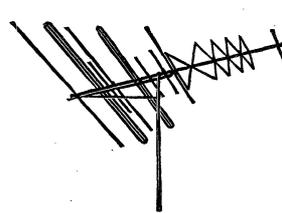
High-performance stacked array for excellent fringe-area VHF reception—may also be used for local UHF reception. Provides exceptionally high gain on TV channels 2 to 13. Dual reflectors provide flat response on low channels. Driven elements are of conical shape for greatest bandwidth. Each high-band section consists of 2 driven elements and 2 directors—spaced and phased for peak performance. Entirely pre-assembled—just flip elements into place. Heavy-gauge brackets tightly grip elements. Long elements are reinforced with heat-treated, aluminum dowels to withstand high winds and icing. Extremely rugged aluminum booms are of one-inch-square heavy-wall aluminum. Supplied complete with quarter-wave stacking bars. Less mast and 300-ohm twin line. Requires 10-ft. mast. Shpg. wt., 14 lbs.

98 CZ 465. List, \$28.45. NET.....16.73

★★ Model JET213. Similar to JET213S above, but single-bay. Shpg. wt., 7 lbs.

98 CZ 464. List, \$13.87. NET.....8.15

★★★★ MODEL AX811 GOLD-ANODIZED "WONDER HELIX"



- Sharp Polar Gain Pattern
- Rugged, Streamlined Design

High-gain, broadband antenna designed especially for deep-fringe areas. Exclusive helix helps create a sharp forward polar pattern to reject interfering signals—uniformly flat gain on channels 2 to 13. Gold-anodizing provides an extremely hard surface with high resistance to tarnish and corrosion—assures long, trouble-free operation.

Streamlined design, plus heavy, drawn-aluminum construction and aluminum element-doweling minimizes the effects of ice loading and high winds. Shipped preassembled—just flip elements in place. Antenna can also be used in strong UHF signal areas. Less mast and 300-ohm line. Shpg. wt., 8 1/2 lbs.

91 CZ 826. List, \$44.50. NET.....26.17

Model AX811S. Same as AX-811 above, except two bays for higher gain. Requires 10-ft. mast. Shpg. wt., 17 lbs.
91 CZ 827. List, \$92.50. NET.....54.39

Model WX811. Same as AX811, but without gold anodizing.
92 CZ 195. List, \$39.50. NET.....23.23

Model WX811S. Same as AX811S, but without gold anodizing.
92 CZ 282. List, \$82.50. NET.....48.51

SERIES 500 "FIREBALL" GOLD ANODIZED ANTENNAS AND ANTENNA KITS

★★★ MODEL AB500 ANTENNA

- Extremely Rigid Construction
- Minimum Ghost and Noise Pickup

Expertly engineered broadband array for superior semi-fringe VHF and local UHF coverage. Offers extremely high gain on both low and high VHF TV bands. Separate folded dipoles for low and high bands with individual reflectors and directors give high directivity and excellent front-to-back ratio. Tough gold-anodized surface provides high tarnish and corrosion resistance. Lightweight construction simplifies installation on high towers. Aluminum phasing harness prevents weather breakdown. Has 15" aluminum dowels in the center of every element over 30" long to minimize the effects of icing and high winds. Completely pre-assembled along a rugged 1"-square boom—just flip elements into place. Large brackets grip elements securely. Less mast and 300-ohm twin line. Shpg. wt., 5 1/2 lbs.

91 CU 828. List, \$21.50. NET.....12.64

★★★ Model AB500S. Same as AB500 above, except two bays for higher gain. Requires 10-ft. mast. Shpg. wt., 11 lbs.

91 CU 829. List, \$47.00. NET.....27.64

Model FB500. Same as AB500, but less anodizing.

92 CU 122. List, \$15.30. NET.....9.00

Model FB500S. Same as AB500S, less anodizing.

92 CU 123. List, \$32.95. NET.....19.37

★★★ MODEL AB500CH ANTENNA KIT

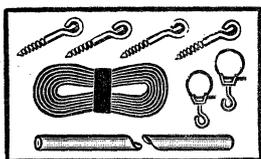
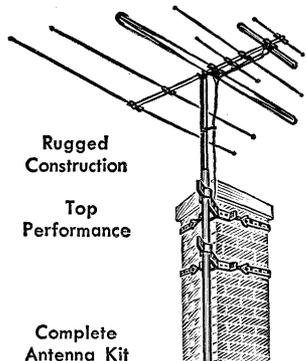
- A Complete Kit—Nothing Else To Buy
- Quick, Easy Installation

Here's an economical, convenient kit with everything you need for a complete "Fireball" TV antenna installation. Quickly and easily installed to provide long, trouble-free performance. Includes the outstanding AB500 gold-anodized "Fireball" antenna described at left, a rugged gold-anodized mast, a corrosion-resistant steel chimney mount, 50 feet of polyethylene twin line and a set of stand-off insulators. Mast is 4 ft. long and 1 3/8" O.D.—made of heavy-gauge aluminum for extreme rigidity. Has hard gold-anodized surface that assures dependability under severe conditions of dirt, salt spray, etc. Completely pre-assembled "snap fit" chimney mount is made of durable galvanized steel with stainless steel straps. Mounting bracket has no hardware—mast quickly snaps into heavy mounting jaws. Each of the two mounting straps is 144 3/4" long by .015" thick. Mount fits chimneys with perimeters of up to 10 ft. Insulator set includes four 3 1/2" wood-screw stand-offs, one 7" wood-screw stand-off and two mast stand-offs. Shpg. wt., 10 lbs.

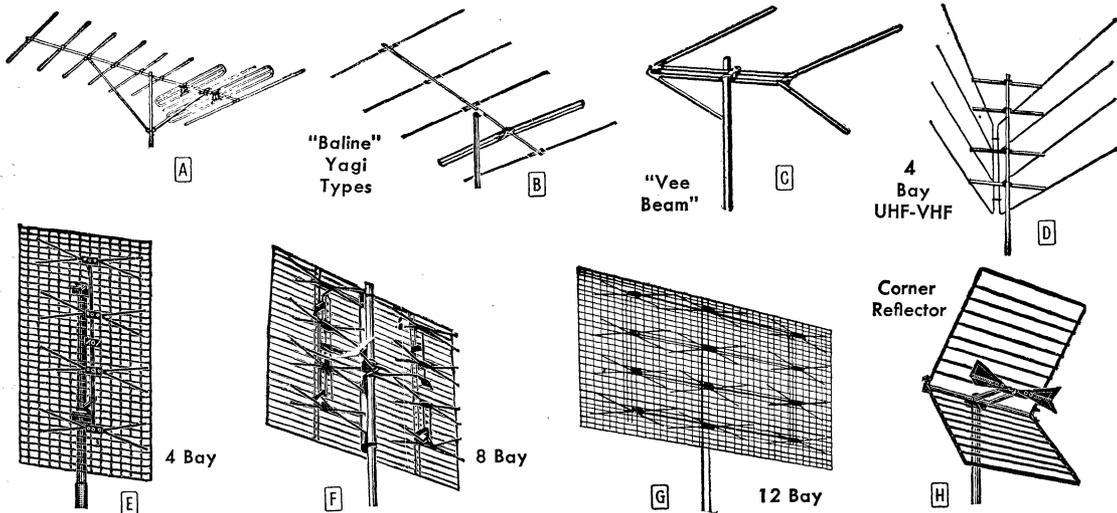
91 CU 830. List, \$34.95. NET.....20.55

FB500CH. Complete "Fireball" antenna kit as above, but less gold anodizing.

91 CU 831. List, \$29.95. NET.....17.61



JFD VHF-UHF TV Antennas



"BALINE" YAGI ANTENNAS

Yagi type antennas offer extremely high gain characteristics and exceptionally sharp directivity for maximum signal reception in deep fringe areas. Antennas listed below are completely pre-assembled for quick, easy installation. All feature rust-proof, seamless aluminum crossarms with 1" O.D. Low band types (channels 2 through 6) have "Y" support for added rigidity. Yagi type television antennas may be stacked for even greater signal gain by using specified harnesses, listed below. Less mast and 300-ohm twin line.

A ★★★★★ SINGLE CHANNEL 10-ELEMENT TYPES. Provide 52% more signal gain than conventional 5-element type yagis. Very sharp directivity. Y-type support strengthens boom—reduces swing and sway; provides steadier TV pictures. Av. shpg. wt., 9 lbs.

No.	Type	Chan.	List	EACH
98 CU 231	10Y2	2	\$27.80	16.35
98 CU 232	10Y3	3	26.35	15.50
98 CU 233	10Y4	4	24.30	14.29
98 CU 234	10Y5	5	24.30	14.29
98 CU 235	10Y6	6	21.55	12.67
98 CZ 236	10Y7	7		
98 CZ 237	10Y8	8		
98 CZ 238	10Y9	9		
98 CZ 239	10Y10	10	11.95	7.03
98 CZ 240	10Y11	11		
98 CZ 241	10Y12	12		
98 CZ 242	10Y13	13		

B ★★★★★ SINGLE CHANNEL 5-ELEMENT TYPES. Wide-spaced, single-driven-element yagis. Consists of 3 directors, 1 reflector and 1 folded dipole. Av. shpg. wt., 5 lbs.

No.	Model	Chan.	List	EACH
98 CZ 322	5Y2	2	\$13.75	8.08
98 CZ 323	5Y3	3	13.05	7.67
98 CZ 324	5Y4	4	12.35	7.26
98 CZ 326	5Y5	5	11.40	6.70
98 CZ 327	5Y6	6	10.70	6.29
98 CZ 328	5Y7	7		
98 CZ 329	5Y8	8		
98 CZ 331	5Y9	9		
98 CZ 332	5Y10	10	6.50	3.82
98 CU 333	5Y11	11		
98 CZ 334	5Y12	12		
98 CZ 335	5Y13	13		

QUALITY VHF ANTENNAS

C ★ MODEL Q800. Vee-Beam antenna—covers channels from 2 to 13. Engineered for increased gain, especially on high band. "Quick-Rig" pre-assembled design for rapid, easy installation—entire array slides out of package readily for flip-assembly; elements automatically lock in place. Simply slip each section of the antenna in place; mechanical grooves and locks secure them permanently. Features corrosion-proof, aircraft aluminum construction throughout. Supplied with 1/2" boom. Includes built-in lightning arrester. Less mast and 300-ohm twin line. Shpg. wt., 3 1/2 lbs.

98 CU 166. List, \$6.25. NET..... 3.67

★ ★ MODEL Q801. Stacked Vee-Beam—two bays provide additional 3 db gain. Includes half wavelength, mast-supported jumper harness for 300 ohm impedance match. Gives excellent reception in metropolitan-suburban areas and in near-fringe localities. Its high sensitivity and sharp directivity delivers clear, steady pictures. Less mast and 300-ohm twin-line. Shpg. wt., 7 lbs.

98 CZ 167. List, \$13.50. NET..... 7.94

CASCADE MULTI-CHANNEL TWIN-DRIVEN TYPES. Offer high-gain coverage of all low-band or all high-band channels with a single antenna. Uni-directional response.

A ★ ★ ★ MODEL 10Y26. 10-element "Baline" for channels 2-6. Wt. 9 lbs.

98 CZ 455. List, \$37.50. NET.... 22.25

A ★ ★ ★ MODEL 10Y713. 10-element "Baline" for channels 7-13. Wt., 9 lbs.

98 CZ 459. List, \$15.95. NET..... 9.38

B ★ ★ MODEL 6Y26. 6-element wide-spaced "Baline" for channels 2-6. Excellent performance in areas of medium signal strength. Shpg. wt., 7 lbs.

98 CZ 450. List, \$21.15. NET..... 12.44

BALINE STACKING HARNESSSES

Matching harnesses for stacking any of 5 and 10-element yagi antennas (above and left) for extra gain. *For Types 10Y26 and 5Y26; †for 10Y713. Av. shpg. wt., 1/2 lb.

No.	Type	For Ch.	EACH
92 CX 253	Y12	2	
92 CX 254	Y13	3	
92 CX 255	Y14	4	1.03
92 CX 256	Y15	5	
92 CX 257	Y16	6	
92 C 258	Y17	7	
92 C 259	Y18	8	
92 C 260	Y19	9	.73
92 C 261	Y110	10	
92 C 262	Y111	11	
92 C 263	Y112	12	.73
92 C 264	Y113	13	.73
92 CX 265	*J175	2-6	1.76
92 C 266	†J178	7-13	.88

UHF AND VHF-UHF ANTENNAS

D ★ ★ UN105. UHF-VHF antenna for channels 2 to 83. 4-bay for extra gain and signal sensitivity for semi-fringe areas. Features Redwood crossarms. Pre-assembled. Simply swing sections open and tighten. Has anti-rust, anti-corrosion, all-aluminum elements. Less 300-ohm line and mast. Wt., 5 1/2 lbs.

92 CU 107. List, \$10.95. NET.... 6.44

E ★ MODEL UHF202. 4 bay, UHF bowtie antenna for suburban areas. Reflector for high gain on all channels and reduction of snow and troublesome reflections. Features "Custom-Channel" calibrator—permits peaking individual channels for optimum response. Precision spaced elements and phasing harness for maximum gain. Galvanized grid wire screen with 1/8" O.D. solid aluminum rods. Pre-assembled for fast installation. Less mast and twin line. Shpg. wt., 6 lbs.

92 CX 151. List, \$9.95. NET..... 5.70

F ★ ★ MODEL UHF208. 8-bay, UHF bowtie antenna for semi-fringe area reception. Utilizes wire mesh reflector and matched elements to provide optimum gain on all channels. Rigidly constructed; solid aluminum rods and galvanized screen. Pre-assembled for simplified, rapid installation. Less mast and 300-ohm twin line. Shpg. wt., 8 lbs.

92 CX 550. List, \$25.95. NET..... 15.26

G ★ ★ ★ MODEL UHF212. 12 bay, UHF bowtie antenna for fringe area reception. Designed to provide extremely high gain over all channels. Screen is engineered for efficient shielding of conical sections. Provides sharp directivity; greatly reduces interference. Pre-assembled for quick, easy installation. Less mast and 300-ohm twin line. Shpg. wt., 10 lbs.

92 CU 551. List, \$34.50. NET..... 20.29

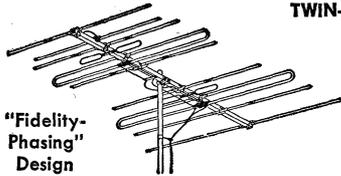
H ★ MODEL UHF410. UHF corner reflector—provides excellent suburban reception. The high front-to-back and front-to-side ratio minimizes co-channel and adjacent channel interference and ends "ghosts."

The twin-angled multi-grid reflectors trap maximum signal strength and reflect it back onto the bowtie dipole with greatly increased intensity. Features extremely sharp directivity. The bowtie dipole provides optimum beam width for maximum gain. Rigidly constructed of solid, lightweight, rust and corrosion resistant aluminum.

Flips open like a book for quick, easy installation. Less mast and 300-ohm twin line. Shpg. wt., 6 lbs.

92 CX 152. List, \$9.25. NET..... 5.44

Finney Fringe Area TV Antennas



"Fidelity-Phasing" Design

TWIN-DRIVEN "GEOMATIC" VHF ANTENNAS

- High Front-to-Back Ratio From 2-13
- Preassembled for Easy Installation
- High Gain—Sharp Directivity

★★★★Model GB-8. Gold-anodized, deluxe twin-driven "Geomatic" antenna—provides topnotch performance in deep-fringe areas. Special gold-anodizing process renders surface more resistant to weather and corrosion—effectively lengthens useful life of antenna. Features 3 directors and 2 reflectors for maximum front-to-back ratio and extremely high directivity. Very effective in eliminating co-channel interference and ghosts. Ideally suited for color TV reception—has extremely flat response; less than 1 db variation across any channel. All "Geomatic" antennas have twin-driven elements and exclusive "fidelity phasing"; self-locking and self-aligning construction. Oversize, extra-heavy-gauge aluminum boom plus "lock-tite, no-tilt" saddle bracket assure fast installation and high strength. "Box girder" element brackets prevent bent, twisted, out-of-position elements. Less mast and twin line. Shpg. wt., 10 lbs. *Shipped by express or truck only.*

- 92 CZ 594. List, \$45.95. NET..... 27.02
- ★★★★Model B-8. Same as above, without gold anodizing. 10 lbs. *Express or truck.*
- 92 CZ 085. List, \$37.50. NET..... 22.05
- ★★★★Model B-7. Has same features as Model B-8 above, except with 1 reflector. Shpg. wt., 6½ lbs. *Shipped by express or truck only.*
- 92 CZ 093. List, \$24.90. NET..... 14.64
- ★★★★Model B-6. Has same features as Model B-8 above, except has 1 reflector and 1 director. Shpg. wt., 5½ lbs. *Shipped by express or truck only.*
- 92 CU 094. List, \$18.90. NET..... 11.11

SINGLE-DRIVEN "GEOMATICS"

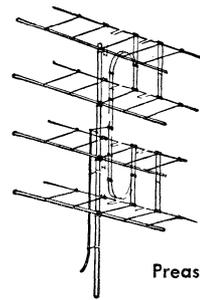
All of the antennas listed below incorporate "fidelity-phasing" for extreme efficiency on both high and low VHF bands. Ruggedly constructed and completely preassembled. *Not available; shipped by express or truck only—see page 442 for details.*

- ★★★★Model B-5. Highly efficient super fringe antenna. Shpg. wt., 9½ lbs.
- 92 CZ 074. List, \$32.00. NET..... 18.82
- ★★★Model B-4. Ideal for fringe areas. High gain; sharp directivity. 6 lbs.
- 92 CU 076. List, \$17.50. NET..... 10.29
- ★★★Model B-3. For suburban-fringe areas. A top performer. Wt., 5 lbs.
- 92 CU 078. List, \$13.50. NET..... 7.94
- ★★Model B-2. Metropolitan, suburban or semi-fringe areas. Shpg. wt., 3½ lbs.
- 92 CU 082. List, \$7.35. NET..... 4.32

STACKING KITS

- Model A. For stacking all Series B antennas above and at left. Gives increased gain on Chs. 4, 6-12 with Model B-4; Chs. 4-6, 8-13 with Model B-5; Chs. 3, 7-13 with Models B-6, B-7; Channels 7 through 13 on all other models. Shpg. wt., 8 oz.
- 92 C 086. List, \$2.00. NET..... 1.18
- Model B. Stacks Models B-2, B-3, B-4, B-5. Boosts Chs. 2-6 with Model B-2; Chs. 2-6, 13 with Model B-3; Chs. 2-6, 12, 13 with Model B-4; Chs. 3-8, 13 with Model B-5. Shpg. wt., 12 oz.
- 92 CX 075. List, \$2.50. NET..... 1.47
- Model C. For stacking GB-8, B-8, B-7, or B-6 antennas. Gives increased gain on Chs. 2-6 with Model B-6; Chs. 2-6, 11-13 with Model B-7; Chs. 2-6, 10-13 with Models B-8 and GB-8. Shpg. wt., 1 lb.
- 92 CX 087. List, \$3.00. NET..... 1.76

CO-LATERAL UHF-VHF ANTENNAS



One Antenna For All Channels

High Gain

Preassembled

MODEL 400-A ANTENNA

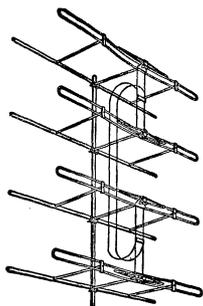
★★★★This highly efficient deep-fringe double-co-lateral antenna provides outstanding reception on all UHF and VHF channels. It features 32 driven elements which achieve remarkably high gain, extremely sharp directivity, and superior signal-to-noise ratio. Permits excellent reception on VHF channels at distances of 125 miles and more under average receiving conditions. Antenna's lightweight construction simplifies installation on high towers and masts—weighs only 8 lbs. Extremely rugged and weather resistant. All element brackets have aluminum "Box Girder" construction; self-locking and self-aligning to prevent bent, twisted, out-of-position elements. Also features oversize, extra heavy gauge aluminum boom. Has high resistance to wind and ice load damage. Ideal for use with a rotator in fringe areas. Only one lead-in required for both UHF and VHF reception (tubular type recommended). All-aluminum construction with stainless steel hardware for rust-free durability. Preassembled for convenient installation. Requires 10-ft. (minimum) mast. Less mast and 300-ohm twin line. Shpg. wt., 12 lbs. *Express or truck.*

97 CZ 104. List, \$42.00. NET..... 24.70

Model 14-S "Fro-Bac" Screen Reflector Kit. For use with Model 400 or Model 400-A antennas to provide increased gain and front to back ratio. Includes the "Fro-Bac" screen (see 400-SA, below) and stainless steel hardware for simple, convenient conversion. 80 sq. ft. of reflector surface. 5 lbs.

98 CU 389. List, \$15.00. NET..... 8.82

SUPER-FRINGE ANTENNA



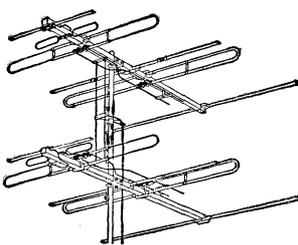
Model F-4
"Fidelity Phasing" Design
Highly Sensitive

★★★★Model F4. A super-fringe VHF antenna with exclusive "Fidelity-Phasing." This antenna engineering discovery produces superior combined performance on all VHF channels from 2 through 13. Excellent reception even at locations extremely distant from TV stations. Highly suitable for color-TV reception—has very flat frequency response; less than 1 db variation in frequency response on any channel. 4 driven low-band, in-phase folded dipoles, plus 12 driven high-band, in-phase, folded dipoles form a highly effective colinear array.

Fidelity phasing accomplishes both low band dipole and high band colinear operation without complicated phasing harnesses. Extremely high sensitivity and directivity. Rugged, lightweight, aluminum construction. Preassembled for quick, simplified installation. Less mast, 300-ohm twin line. Wt., 13 lbs. *Express or truck.*

92 CZ 072. List, \$46.00. NET..... 27.05

"GEOMATIC" TWIN-DRIVEN 2-BAY VHF ANTENNAS

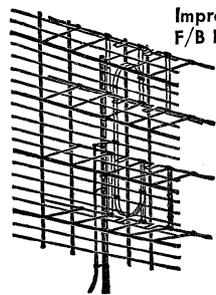


★★★★Model B-66-A. Deep fringe antenna featuring very great front-to-back ratio and high gain on all channels. This is achieved through the use of Finney's famous "Fidelity Phasing" and coaxially dual-tuned folded dipoles. Incorporates coaxial capacities which causes dipole to operate as one length on low-band signals and as electricaly different length on high-band signals—provides peak performance on both bands. "Fidelity Phasing" efficiently combines the low-band folded dipole operation and high-band 3-element colinear operation without complicated phasing harnesses. Low-band reflector, high-band colinear reflector and combination director further increase gain and sharpness of directivity. Completely preassembled. Less mast and twin line. Wt., 10 lbs. *Express or truck.*

92 CU 568. List, \$39.80. NET... 23.40

Model B-66-C. For maximum F/B ratio on channels 2 and 3, and maximum gain on 2-6. Wt., 10 lbs. *Express or truck.*

92 CU 569. List, \$40.80. NET..... 23.99



Improved F/B Ratio

MODEL 400-SA ANTENNA

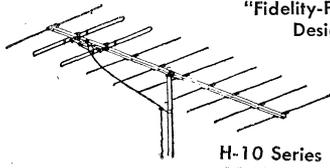
★★★★This antenna is the same as Model 400-A described above, but supplied with "Fro-Bac" full dimensional screen reflector. This special screen results in maximum signal gain plus extremely high front-to-back ratio. Eliminates unwanted rear signal interference and ghosting in fringe areas. Antenna and "Fro-Bac" dimensional screen are both preassembled as one unit ready for quick and easy installation. Reflector screen elements are full length—80 sq. ft. of highest efficiency reflector surface. Designed for minimum wind resistance and maximum strength. Requires 10 ft. mast. Less mast and 300-ohm twin line. Shpg. wt., 16½ lbs. *Express or truck.*

98 CZ 388. List, \$54.50. NET..... 32.05

Fringe and Semi-Fringe TV Antennas

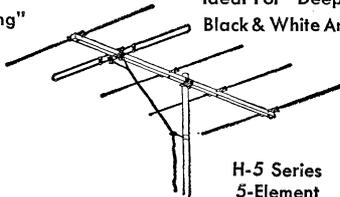
FAMOUS FINNEY "GEOMATIC" TV ANTENNAS

"Geomatic"
"Fidelity-Phasing"
Design

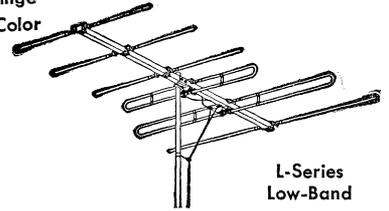


H-10 Series
10-Element

Ideal For "Deep Fringe"
Black & White And Color



H-5 Series
5-Element



L-Series
Low-Band

H-10 SINGLE-CHANNEL ANTENNAS

★★★★ Customized 10-element yagi. "Geomatic" VHF TV antennas. Provide maximum gain, sharp directivity, and high front-to-back ratio in deep fringe areas. New, solid-rod construction for up to 300% greater wind and ice-load resistance. Pre-assembled; "box girder" brackets; heavy, square aluminum boom; solid aluminum elements, and saddle brackets. Less mast and 300-ohm line. Av. shpg. wt., 4 1/4 lbs.

Stock No.	Model	For
92 CU 552	H-10-7	Channel 7
92 CU 553	H-10-8	Channel 8
92 CU 554	H-10-9	Channel 9
92 CU 555	H-10-10	Channel 10
92 CU 556	H-10-11	Channel 11
92 CU 557	H-10-12	Channel 12
92 CU 558	H-10-13	Channel 13

List, \$9.95. NET EACH.....5.85

★★★★ Model H-10-713. New, twin-driven 10-element yagi. Similar to above, but covers channels 7-13. 4 3/4 lbs.

92 CU 559. List, \$12.95. NET.....7.61

H-5 SINGLE-CHANNEL ANTENNAS

★★★ Popular, 5-element, high-band VHF antennas. Have famous "Geomatic" design for high gain and clean directivity. Same superior construction as Series H-10; feature new solid-rod aluminum elements. Av. shpg. wt., 2 1/2 lbs.

Stock No.	Model	For
92 CX 560	H-5-7	Channel 7
92 CX 561	H-5-8	Channel 8
92 CX 562	H-5-9	Channel 9
92 CX 563	H-5-10	Channel 10
92 CX 564	H-5-11	Channel 11
92 CX 565	H-5-12	Channel 12
92 CX 566	H-5-13	Channel 13

List, \$6.65. NET EACH.....3.91

★★★ Model H-6-713. New, twin-driven 6-element yagi. Similar to above, but covers channels 7-13. 2 3/4 lbs.

92 CX 567. List, \$8.75. NET.....5.14

Model A Stacking Kit. For all Finney Series H antennas above. Shpg. wt., 3 oz.

92 CX 086. List, \$2.00. NET.....1.18

"GEOMATIC" LOW-BAND ANTENNAS

★★★★ "Customized" Series L "Geomatic" television antennas for outstanding "deep fringe" reception on the low-band channels. Model L-26 covers the entire low band; all others cover specific portions.

All have very high gain, sharp directivity plus high front-to-back ratio. Pre-assembled design to reduce installation time.

May be stacked to achieve higher gain—see Model C Stacking Kit. Less mast and 300-ohm twin line. Av. shpg. wt., 8 1/2 lbs.

Stock No.	Type	Channels
92 CZ 283	L-26	2-6
92 CZ 284	L-25	2-5
92 CZ 285	L-24	2-4
92 CZ 286	L-36	3-6
92 CZ 287	L-35	3-5
92 CZ 288	L-46	4-6
92 CZ 289	L-45	4 and 5

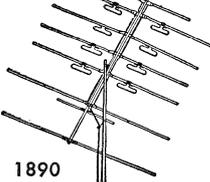
List, \$23.95. NET EACH.....14.08

Model C Stacking Kit. For all Finney Series L antennas above. Shpg. wt., 1 lb.

92 CX 087. List, \$3.00. NET.....1.76

TACO BROAD-BAND VHF ANTENNAS

Has
Five
Driven
Elements



1890

MODEL 1890 "SUPER-TRAPPER"

★★★★ Unique, multi-driven antenna for outstanding performance in deep-fringe areas. Provides high uniform gain on all channels. Features 5 driven elements operating with equal efficiency on both high and low bands. Signal energy of all 5 drivers is always combined in phase regardless of channel being received on TV set. Extremely high front-to-back ratio effectively minimizes co-channel interference.

Has tough aluminum alloy construction and sturdy 1 1/4" diameter crossarm for long life. Low-loss fiberglass insulators. Easy to install—elements snap into place without tools. Less mast and 300-ohm twin line. Shpg. wt., 9 lbs.

92 CZ 030. List, \$34.50. NET.....20.29

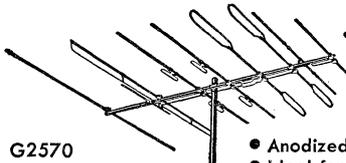
Stacking Kits. For providing extra high-band gain or extra low-band gain. Each kit stacks two 1890 antennas.

Stock No.	Type	Description	Wt.	NET
92 CX 031	1892	hi-band gain	7/4 lb.	.88
92 CX 032	1893	lo-band gain	7 oz.	2.20

ANTENNA INSTALLATION KIT

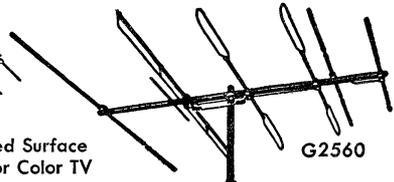
3-Mast Kit. Provides needed installation accessories for use with any TV antenna. Every item supplied in kit is of top-quality construction. Mast sections are galvanized to resist corrosion. Includes everything needed for quick and easy installation of any antenna—perfect for service crews, etc. Contains: 3—3" mast sections; 100' of 300-ohm, flat twin-line; 1—lightning arrester; 2—mast standoffs; 5—screw-type standoffs; and 10' ground wire. Shpg. wt., 7 3/4 lbs.

71 CX 687. NET.....2.98



G2570

- Anodized Surface
- Ideal for Color TV



G2560

GOLDEN TOPLINER ANTENNAS

★★★★ Model G2570. "Gold-anodized", high-gain antenna for peak reception in deep-fringe areas. Features "power-pack" feed circuit and new "paddle" dipoles. 5 driven elements operate with equal efficiency on all VHF channels; give high gain and uniform response. Sharp directivity minimizes ghosts and interference. Extremely high front-to-back ratio. 15-dip anodizing of aluminum elements reduces effects of salt air, soot, etc. Proven design withstands severe winds and icing. Uses spring-loaded tension-booster locks—elements snap into place without tools. Less mast and 300-ohm twin line. Shpg. wt., 10 lbs. By express or truck.

71 CZ 681. List, \$43.95. NET.....25.84

★★★★ Model 2570. Similar to above, less gold anodizing.

92 CZ 296. List, \$36.75. NET.....21.61

★★★★ Model G2560. Excellent all-channel VHF TV antenna designed for fringe-area reception up to 75 miles. Employs 6 working elements on the low bands and 13 on the high for full uniform response. Has exclusive phase delay line for improved impedance match to transmission line. Efficient "paddle" type dipoles and "power-pack" feed circuit also assure highest performance. Rugged, aluminum alloy material withstands high winds and ice loads. Elements are all 15-dip gold "anodized" to prevent corrosion. Has spring-loaded tension booster locks—elements snap into place for easy assembly. Less mast and twin line. Shpg. wt., 7 lbs. By express or truck.

71 CZ 682. List, \$29.95. NET.....17.61

★★★★ Model 2560. Similar to above less gold anodizing.

71 CZ 683. List, \$25.75. NET.....15.14

STACKING HARNESES FOR "TOPLINER" ANTENNAS

92 CX 297. For stacking two G2570, G2560, 2570, or 2560 antennas for extra gain on channels 7-13. Wt., 1/2 lb. NET.....88 c

92 CX 298. For stacking two G2570, G2560, 2570 or 2560 antennas for extra gain on channels 2-6. Wt., 1/2 lb. NET...1.76

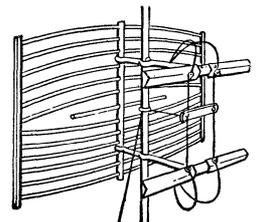
DAVIS UHF-VHF ANTENNA

★★★★ Model SV-ZR-1 "Zig-Rig." For superior fringe area VHF reception; excellent UHF reception in primary signal areas. Delivers 12 db or more average gain on high channels. Features electronic dipole separators. With 2 sets of matching harness—permits peaking antenna on weakest channel and still maintain excellent all-channel coverage. Partially pre-assembled. Less mast and 300-ohm line. Shpg. wt., 12 lbs. By express or truck.

92 CZ 210. List, \$29.95. NET.....17.61

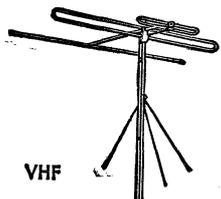
Model SK-1 Stacking Kit. For horizontal or vertical stacking of SV-ZR-1. 1 1/2 lbs.

51 CX 054. List, \$3.25. NET.....1.91



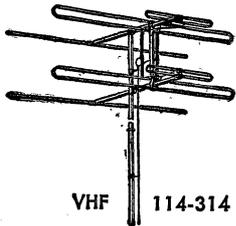
Amphenol and Walsco TV Antennas

HIGHLY EFFICIENT VHF & UHF AMPHENOL ANTENNAS



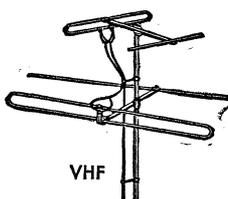
VHF

114-005



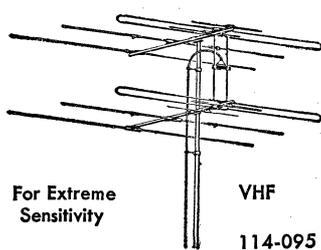
VHF

114-314



VHF

114-026



For Extreme Sensitivity

VHF

114-095

★ INLINE VHF ANTENNA

Model 114-005. Covers all 12 VHF channels. Ideal for metropolitan and suburban use. Unusually broad frequency response. Uni-directional pattern and excellent impedance match on high and low-bands reduces stray reflections and "ghosts." Antenna elements constructed of sturdy aluminum tubing. Mast is heavy-gauge steel. Unique design permits large folded dipole (for 54-88 mc band) to operate as reflector for the smaller dipole (174-216 mc band). Includes one 5"x3/4" mast, guy ring, mounting bracket, hardware, stand-off insulators, 75 feet of high-quality 300-ohm twin line, and easy-to-follow installation instructions. Shpg. wt., 7 lbs. *Express or truck only.* 97 CU 438. List, \$19.50. NET.....11.47

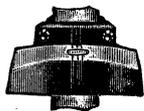
Model 114-009. Same antenna as 114-005 above but less 300-ohm twin line. Shpg. wt., 6 lbs. *Express or truck only.* 97 CU 439. List, \$17.00. NET.....10.00

Model 114-040. Same as 114-005 above, but less mast, twin line and stand-off insulators. Shpg. wt., 5 lbs. *Express or truck.* 97 CU 492. List, \$13.95. NET.....8.20

★ INLINE STACKED ARRAY

Model 114-314. Properly phased for all 12 VHF channels. Each bay consists of 2 folded dipoles and low-band reflector element. Low-band folded dipole of each bay acts as reflector for high-band dipole. Matching section has correct impedance for 300-ohm twin line. Ready for quick and easy installation. With complete instructions; less 300-ohm twin line and masts. Shpg. wt., 12 lbs. *Express or truck.* 97 CU 454. List, \$29.00. NET.....17.05

ANTENNA COUPLERS



Antenna coupling networks. Eliminate antenna switching and separate lead-in lines. Permit using a single 300-ohm line to separate high and low-band VHF antennas and VHF and UHF antennas. Each coupler listed below consists of an efficient isolation filter for effectively isolating one antenna from the other; preserves the gain to assure good picture quality. Easily installed on antenna mast. With mounting hardware and installation instructions. Shpg. wt., 1 1/2 lbs.

Model 114-094 "Duonet." Couples separate high-band VHF antenna with a separate low-band VHF antenna on single 300-ohm twin line. 51 C 283. List, \$3.75. NET.....2.20

Model 114-061 "Isonet." VHF-UHF coupling network. Permits using a single 300-ohm twin line to separate VHF and UHF antennas. 51 C 273. List, \$3.75. NET.....2.20

Model 114-074 "Trisonet." Permits coupling three antennas (low-band VHF, high-band VHF and UHF) to a single 300-ohm transmission line. 51 C 277. List, \$4.75. NET.....2.79

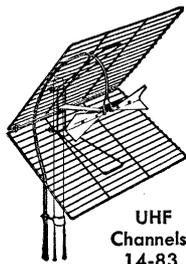
★ "PIGGY-BACK" VHF ANTENNA

Model 114-026. Amphenol's extremely popular "Piggy-Back" VHF antenna—a particularly fine choice for locations where high and low-band TV signals are received from different directions. Eliminates the need for compromising low-band reception in order to obtain good high-band reception, and vice-versa. Consists of individual, 2-element high-band and low-band antenna sections to permit separate directional adjustments for peak performance and minimum "ghosts" on channels 2-6 (low band) and 7-13 (high band).

Each antenna section employs its own folded dipole element plus a reflector element to assure excellent signal gain and a very favorable front-to-back ratio. Provides clear, sharp reception in metropolitan as well as suburban areas.

Antenna is supplied with the following installation accessories: 5-ft. steel mast, clamps, guy ring, isolating transmission harness, mounting support, stand-off insulators, 75 feet of 300-ohm twin line and instructions for quick, simplified installation. Sturdy, weather-resistant construction. Wt., 10 lbs. *Express or truck.* 97 CU 360. List, \$19.50. NET.....11.47

★ UHF CORNER REFLECTOR



UHF Channels 14-83

Model 114-058. Engineered for high gain over channels 14 to 83. UHF corner reflector design has proven most efficient antenna for both strong and weak signal areas. Excellent horizontal and vertical characteristics reduce "ghosts" as well as interference due to simultaneous telecasting on the same channel or adjacent channels. Spacing and dimensions of the elements and reflectors assure maximum broadband reception from the front with rejection of reflected signals from the sides and back. Ascending signal gain of 8 to 13 db across the entire UHF range. Impedance matches 300-ohm twin line. Electro-galvanized steel reflectors designed to resist corrosion. Fits masts up to 1 1/2" O.D. With complete mounting hardware. Less mast and 300-ohm twin line. Shpg. wt., 8 lbs. *Express or truck.* 97 CU 263. List, \$12.50. NET.....7.35

MATCHING TRANSFORMER



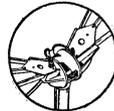
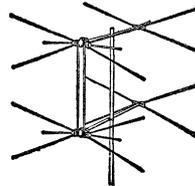
Matching transformer for connecting 72 and 300-ohm impedances. Matches 72-ohm line to 300-ohm antenna or receiver inputs; matches 300-ohm line to 72-ohm antenna or receiver inputs. Spade lugs for convenient installation. Shpg. wt., 14 oz. 51 C 292. NET.....71c

★★★ "POWERAY" FRINGE-AREA VHF ANTENNA

Model 114-095. Designed for extreme sensitivity, the "Poweray" 2 bay fringe area VHF TV antenna produces outstanding reception even at distances to 75 miles from the transmitter. Features "Sleeve Dipole" design for proper balance of gain and directivity, plus an extremely close impedance match between antenna, lead-in, and TV receiver. Exceptional gain due to high front to back ratio, sharp directivity, and very high efficiency assure outstanding picture quality on all channels from 2 to 13. High-directivity eliminates co-channel interference, and reduces ground reflections causing "ghosts." Easily installed—elements swing out and lock with positive spring-lock design. Heavy-duty, all-aluminum construction withstands severe weather conditions. Requires 10-ft. mast. Less mast and 300-ohm twin line. 14 lbs. *Express or truck.* 92 CU 089. List, \$34.75. NET....20.43

Model 114-743. Stacking Harness. For stacking two 114-095 antennas. Wt., 1/2 lb. 92 CX 097.....1.32

WALSCO "IMPERIAL" VHF TV ANTENNAS



Barrier Disc Insulator

★★ Model 4062-F. Extremely popular "Imperial" 2-bay VHF conical antenna for all TV channels. Advanced design provides very high gain on all channels in fringe and high signal strength areas under all kinds of weather conditions. Has excellent directivity and sensitivity.

The "Imperial" can be used in sea coast or heavy industrial areas. Features a barrier disc type insulator with 2" of air space between the terminals. Salt, moisture, soot, corrosion, etc., will not affect the gain or picture quality. Contact surfaces and terminals will never rust or oxidize. Stainless steel, front-end hardware prevents signal losses through corrosion.

Front-end elements are pre-assembled to holding plates which fasten to insulator with one wing nut. Just fold elements in place and fasten wing nut. Less twin line and mast. 8 lbs. *Express or truck.* 98 CU 404. List, \$22.25. NET....13.08

★ Type 4060-F. Same antenna as above, but single bay. Shpg. wt., 4 lbs. 98 CX 405. List, \$10.95. NET.....6.44

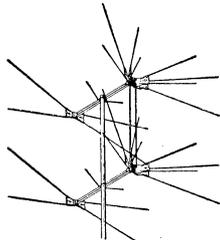
Stacking Kits. For stacking 4060-F single-bay antennas. Av. shpg. wt., 1 lb.

Stock No.	Model No.	Description	NET EACH
98 CX 406	4060A-1	For 2-bay	.88
98 CX 407	4005-5A	For 4-bay	3.29

TV and FM Antennas

TELREX UHF-VHF TV ANTENNA

**DUO-BAND
UHF-VHF
CONICAL
V-BEAM
ANTENNA**



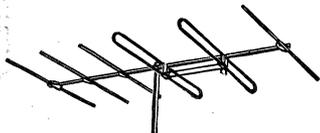
★★ **MODEL 440.** Universal 2-bay UHF-VHF antenna. Ideal for fringe and primary areas. Unidirectional pattern. Special "V" type elements. Excellent directivity and signal-to-noise ratio on both UHF and VHF. Both UHF and VHF signals are picked up at the same cone apex—no filters or isolation networks are required. One transmission line for both bands. Higher frequency signals are further strengthened by the addition of 2 supplementary "V" splines. All aluminum construction. Less mast and 300-ohm line. Shpg. wt., 9 lbs.

92 CZ 204. List, \$26.40. NET15.52

★ **MODEL 420.** Same antenna as above, but only 1 bay. Shpg. wt., 6 lbs.

92 CU 205. List, \$13.03. NET.....7.66

TACO FM ANTENNAS



MODEL 644B 6-ELEMENT FM ANTENNA

Single-bay, 6-element yagi antenna for top FM performance in weak signal areas. Unidirectional design. High F/B ratio, 6 to 9 db gain. Completely assembled. Elements swing out—lock in place. Less mast, 300-ohm twin line. Shpg. wt., 7 lbs.

92 CZ 546. List, \$20.20. NET.....11.88

MODEL 610 10-ELEMENT FM ANTENNA

Single-bay, 10-element yagi antenna for outstanding long-distance FM reception. 8 to 10 db gain. Sharp directivity—extremely high F/B ratio. Completely assembled. Arms swing out—lock in place. Less mast, 300-ohm twin line. Wt., 10½ lbs.

92 CU 547. List, \$29.95. NET.....17.20

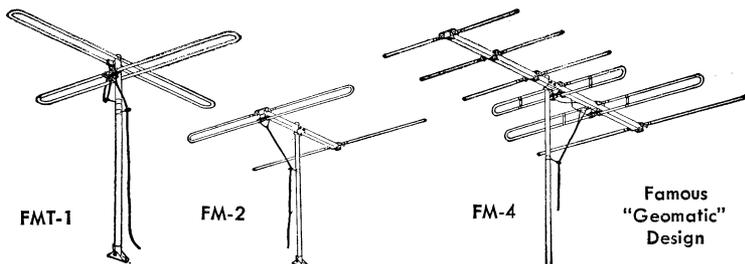
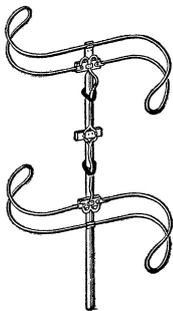
MODEL 646 STACKING KIT. Phasing line, insulators, hardware. Permits stacking two 644B or 610 antennas. Wt., 1 lb.

92 CX 548. List, \$2.65. NET.....1.56

MODEL 624STL FM ANTENNA

An excellent value in a unique, stacked FM antenna—combines an all-directional pickup pattern with high gain. Consists of two S-type, stacked, folded dipoles connected with a phasing network for optimum efficiency. Reception characteristics are particularly suited to locations where stations must be received from several different directions. Stacked-element design provides unusually good gain across the entire FM band. Sturdy, all-aluminum construction. Antenna is supplied with heavy-duty, 10-ft. aluminum mast. Less 300-ohm twin line. Shpg. wt., 7½ lbs.

92 CU 039. List, \$14.95. NET.....8.79



FINNEY FM ANTENNAS

MODEL FMT-1 ANTENNA KIT

All-direction FM antenna kit. Provides unusually fine reception over the entire FM band, 88 to 108 mc. Incorporates two sturdy, well designed folded dipoles mounted at right angles to each other for complete 360° coverage without rotation. Dipoles are matched with a special quarter wave phasing stub for optimum gain in all directions. Simplified installation. Each folded dipole attaches easily to pre-drilled 5-foot mast. Universal base will mount on any surface from horizontal flat roof to vertical side wall and allow mast to be adjusted to vertical position. Kit includes 50-ft. 300-ohm transmission line; heavy-duty 5-ft. antenna mast; universal mounting base; 2 mast stand-off insulators; and 3 screw-eye stand-off insulators. Shpg. wt., 6 lbs.

92 CU 278. List, \$13.95. NET.....8.20

MODEL FM-2 ANTENNA KIT

A particularly fine choice for use where all signals are received from approximately the same direction. Employs an efficient FM dipole plus a reflector element to achieve high signal gain and good directivity. Gain is 3.5 db. Features rugged, weather-resistant construction throughout. All-aluminum boom and elements are completely pre-assembled with "snap-out," self-aligning aluminum brackets—designed for quick, simplified installation. Universal base will mount on any surface. Kit is supplied with 5-ft. antenna mast, heavy-duty mounting base, 50-ft. 300-ohm twin line, 2 mast-type stand-off insulators, and 3 screw-eye stand-off insulators. Shpg. wt., 6½ lbs.

92 CU 279. List, \$13.95. NET.....8.20

MODEL FMS STACKING KIT. Permits stacking two FM-2, FM-3 or FM-4 antennas. 1 lb.

92 CX 597. List, \$3.20. NET.....1.88

MODEL FM-3 ANTENNA

(Not illustrated.) An extremely effective broad band fringe-area FM antenna at a very moderate cost. Features a highly directive 4-element yagi design for outstanding gain on the FM band, 88 to 108 mc. All-aluminum construction with square boom. Special "Lock-Tite-No-Tilt" saddle bracket for permanent horizontal alignment. Uses folded dipole driven element for closer impedance matching and maximum energy transfer. Double wall reinforced elements have snap-out brackets. Elements lock in open position. Less mast and 300-ohm twin lead. Shpg. wt., 5 lbs.

92 CU 281. List, \$12.50. NET.....7.35

MODEL FM-4 ANTENNA

Deluxe, 6-element, high-gain antenna—provides superior fringe-area FM reception. Design is based on the famous "Geomatic" TV antenna principles. Features a specially engineered twin drive element with impedance matching by the well known "T-Match" system. Twin drive allows maximum gain to be realized over the full 88 to 108 mc band. 3 extra wide spaced parasitic director elements, plus the wide spaced parasitic reflector, also contribute substantially to the gain and broad-band features. All of the parasitic elements lock into open position by "snap lock" brackets. On the twin-drive dipoles it is only necessary to loosen nuts, swing into open position until brackets snap closed and retighten nuts. Equipped with rugged square aluminum boom and "Lock-Tite-No-Tilt" saddle mounting. Less mast, twin lead. Shpg. wt., 6½ lbs.

92 CZ 280. List, \$23.95. NET.....14.08

AMPHENOL FM ANTENNAS

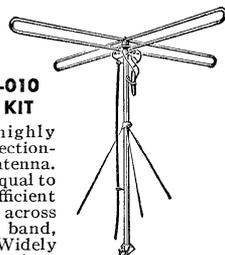


MODEL 114-008 ANTENNA KIT

An efficient, sturdily constructed FM antenna. Easily installed unit employs folded dipole plus a reflector element. Use of folded dipole as driven element provides excellent impedance match with 300-ohm lead in line. Has extremely good gain and directional characteristics across the entire 88 to 108 mc FM band. A very dependable performer for use in areas where most FM stations are received from approximately the same direction. Made of lightweight, durable, ¾" O.D. aluminum tubing—withstands very severe weather conditions. Swivel bracket allows mast to be installed vertically on any type of roof or side of house.

Supplied complete with a full set of high-quality accessories plus easy-to-follow assembly and installation instructions. Accessories consist of: 5 ft. x ¾" O.D. steel mast, 75 feet of 300-ohm twin line, low-loss stand-off insulators, swivel and U-bolt mounts and hardware. Shpg. wt., 7 lbs.

97 CU 433. List, \$16.25. NET.....9.55



MODEL 114-010 ANTENNA KIT

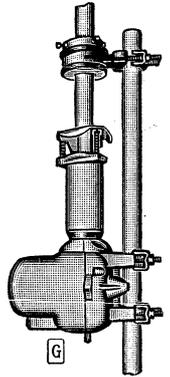
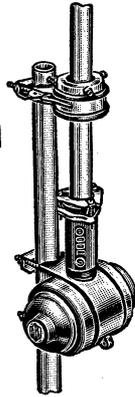
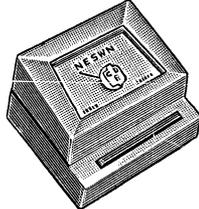
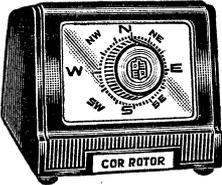
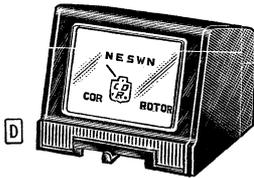
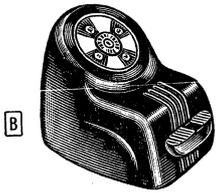
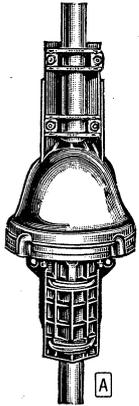
Amphenol's highly popular, all-directional FM dipole antenna. Provides gain equal to that of an efficient folded dipole across the entire FM band, 88 to 108 mc. Widely used where stations are received from many different directions. Elements are of ¾" O.D. aluminum tubing—antenna is ruggedly constructed to withstand high winds and icing. Employs 2 folded dipoles mounted at right angles to achieve an essentially circular pickup pattern. Quarter wave phasing stub precisely matches both elements to 300-ohm twin line.

Supplied complete with full set of accessories for easy, time-saving installation. Includes convenient, hinged base plate for simplified mounting of antenna on either a flat or sloping roof, 75 feet of quality 300-ohm twin line, all hardware, and sturdy 5-ft. x ¾" O.D. mast. Shpg. wt., 7 lbs.

97 CU 434. List, \$16.25. NET.....9.55

TV Rotators & Distribution Amplifiers

CORNELL-DUBILIER-RADIART TELEVISION ANTENNA ROTATORS



MODEL AR-22 ROTATOR WITH AUTOMATIC-TYPE CONTROL UNIT

A C Popular, fully automatic rotor for TV antennas up to 150 lbs. For mast, tower or platform mounting. Heavy-duty precision gears hold even large TV arrays steady in high winds. Rotor unit employs 12 large ball-bearings in two 6½" races. Motor reverses instantly—does not drag or coast. Overshoot of desired direction is prevented by magnetic brake. Streamlined bell-shaped housing is die-cast and heavily reinforced. Weather-sealed and factory lubricated for life. Reversible clamps on rotor unit take masts from 7/8" to 2" O.D. Rotor unit has 3 husky guy wire lugs built-in for convenience in installation.

Control unit dial is marked in compass points: N, S, E, W, NW, NE, SW, and SE. Operation is extremely simple: Set control unit pointer to desired direction, and antenna then automatically rotates to this position and stops. Eliminates necessity of watching control unit dial until antenna has rotated to desired direction. Control unit is housed in attractive brown plastic cabinet which is equipped with rubber feet to protect TV set finish. Complete with rotor, control unit, and full set of instructions. Requires 4-wire cable (see listing below). For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 14 lbs.

92 TX 150, List, \$51.95. NET.....30.55

MODEL TR-4 ROTATOR WITH METER-TYPE CONTROL UNIT

A D Heavy-duty antenna rotor; same as above except with meter-type control unit. Dial calibrated N, E, S, W, and N. Lever at front of control box permits forward or reverse movement of antenna. Dial pointer begins to turn as soon as starter lever is actuated, and can be stopped at any desired direction. Sturdy plastic cabinet with attractive mahogany finish. For 110-120 v., 50-60 cycle AC. Uses cable below. Shpg. wt., 16 lbs.

98 TX 393, List, \$49.95. NET.....29.37

4-CONDUCTOR CABLE. For use with the AR22 or the TR-4 rotators. Shpg. wt., 100 ft., 3 lbs.

97 T 365, 100-ft. coil. NET.....2.70

47 W 576, Over 100', PER 100'.....2.70

MODEL TR-2 ROTATOR WITH ILLUMINATED-COMPASS CONTROL UNIT

A B Heavy-duty rotor, same as the two above but uses illuminated control box with compass-type dial. As antenna rotates, letters N, E, S, W, light up—clearly indicating direction. Bar lever at front permits start, stop or reversing action. Less cable. Uses 8-wire cable listed below. For operation from 110-120 v., 50-60 cycle AC. With handsome plastic control cabinet. Shpg. wt., 16 lbs.

97 TX 463, List, \$45.95. NET.....27.02

8-CONDUCTOR CABLE. For TR-2 rotor above. Handles current for rotor and illumination circuits. Shpg. wt., 100 ft., 5 lbs.

47 T 586, 100-ft. coil. NET.....4.73

47 W 593, Over 100', PER 100'.....4.73

MODEL AR-2 ROTATOR WITH AUTOMATIC-TYPE CONTROL UNIT

E C Automatic antenna rotator for precise antenna orientation with utmost convenience. Operation is simplicity itself. Control unit dial is calibrated in compass points: N, NE, E, SE, S, SW, W, NW. To change antenna direction, simply set control unit knob to desired compass point or any intermediate point and release knob—that's all. Rotor will automatically turn on and rotate antenna to selected direction, and shut itself off. No need to hold knob and wait while watching a moving indicator. For added convenience in semi-darkened rooms, control dial lights up as soon as knob is moved—provides illumination for accurately selecting desired direction.

Rotor unit is housed in a weather-sealed, factory-lubricated, die-cast aluminum case. Features precision cut gears for smooth operation, plus a separate thrust bearing with six precision roller bearings to relieve lateral strains on rotor mechanism. Self-centering, supporting-mast clamps accept masts up to 2" in diameter; thrust bearing and antenna-mast collet accept masts up to 1½" in diameter. Antenna can be rotated 360° in either direction—makes one complete rotation in 45 seconds. Mechanical brake, released magnetically, prevents overshoot and drift in high winds. Control unit has attractive plastic case. Requires 4-conductor cable (see below). For 110-120 v., 50-60 cycle AC. Wt., 13½ lbs.

98 TX 414, List, \$49.95. NET.....29.37

MODEL TR-16 ROTATOR WITH METER-TYPE CONTROL UNIT

G F Latest model in the famous C-D line of rotators. Rotor unit is similar to the one in the Model AR-2 rotorator above, but has a new modern style housing. Also has a newly designed meter-type control unit. Has same husky thrust bearing; instant locking—non-drift features. Mechanical brake—releases magnetically. Instantly reversible. Makes complete revolution in 45 seconds. Rugged, precision made gears. New, modern design control unit featuring meter-type dial and "piano key" control bar. Pressing one end of "key" starts rotator—pressing the other end reverses the direction. Cabinet has been restyled for modern appearance. Slanted front panel allows dial to be more easily read. Rotor unit is easily installed—no loose parts to assemble. Quick mounting antenna mast collet. Completely weather sealed. Self centering sawtooth mast clamps grip antenna mast securely. Fits all standard towers. For use with masts up to 1½" O.D. Complete with thrust bearing and attractive, mahogany finish plastic control cabinet. Less cable. Uses 4-conductor cable listed below. For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 13 lbs.

92 TX 591, List, \$43.95. NET.....25.84

4-CONDUCTOR CABLE. For use with the AR-2 and TR-16 antenna rotators. Cable is flat, with four parallel conductors of seven-strand copper wire. One conductor tinned for identification. Highly-flexible, polyethylene insulation is resistant to damage from heat, humidity and corrosive atmospheric gases. Shpg. wt., 100 ft., 3 lbs.

97 T 365, 100-ft. coil. NET.....2.70

47 W 576, Over 100', PER 100'.....2.70

VEE-D-X VBM ANTENNA ROTATOR



Exceptionally rugged unit used to orient antenna in any direction for maximum signal strength. Features die-cast gears for long life and smooth operation. Sintered steel thrust bearing. Motor bearings are silicone-lubricated. Advanced in-line design for greater load handling capacity (up to 200 lbs.) less wind resistance. Heavy-duty 3-jaw chuck-type clamps on top and bottom. Positive stop eliminates over-travel to permit pinpoint accuracy. Motor is reversible—has automatic built-in mechanical braking action. Mahogany-finish plastic control box with finger-tip control lever. Dial marked N, E, S, W, N; also numerical reference points. Uses control cable below. Rotation speed; 1½ rpm. For 110-120 volts, 60 cycle AC. Shpg. wt., 11 lbs.

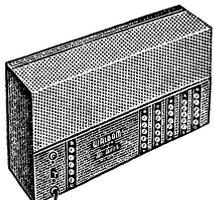
98 TX 293, NET.....27.45

4-CONDUCTOR CABLE. For above. Shpg. wt., 100 ft., 3 lbs.

97 T 365, 100-ft. coil. NET.....2.70

47 W 576, Over 100 ft., PER 100 ft.....2.70

WALDOM TV SIGNAL DISTRIBUTION AMPLIFIER



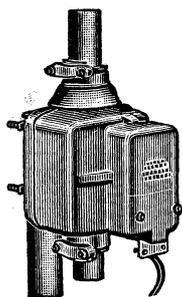
Model DA-1010. Deluxe, electronic TV, signal distribution amplifier for operating up to 10 TV receivers from the same antenna. Provides signal gain averaging 3 db to each TV set on any channel from 2 to 15. Has auxiliary UHF converter input. Any number of sets can receive UHF while others are receiving VHF. Ideal for apartments, motels, dealer demonstrations—any multiple TV installation. Features high gain and wide response. 35 db isolation between outputs prevents interaction of TV sets. Gain control for adjusting signal level. Designed for continuous operation. Housed in sturdy, gray metal cabinet. Size, 7¼x12½x3¼". For 110-120 v., 60 cycle AC. Wt., 8 lbs.

98 T 494, List, \$102.95. NET.....60.53

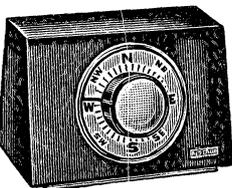
TV Rotators, Boosters, Converters

ALLIANCE TELEVISION ANTENNA ROTATORS

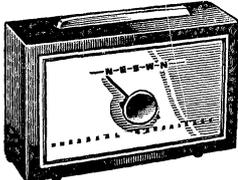
Choice of Three Handsome Control Units



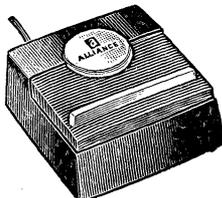
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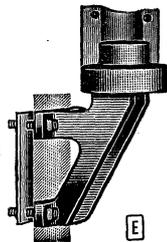
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C



D



E

MODEL U-98 ROTATOR

FEATURING AUTOMATIC-TYPE CONTROL UNIT

- Smooth, Efficient, Weather-Proofed Rotor Unit
- Automatic Control Unit for Maximum Target Signal

A B Exceptionally rugged unit used to point antenna in any direction for maximum signal strength. Simply set dial of smartly styled control box—antenna stops automatically when desired position is reached. Compact rotor unit measures $7\frac{3}{4}'' \times 5\frac{1}{4}'' \times 8''$. Weather-sealed and factory-lubricated for life. Has magnetic brake to prevent overshoot and drifting. 2 rpm motor is instantly reversible for clockwise or counter-clockwise rotation. Control unit measures $7 \times 4\frac{1}{2} \times 4''$. Has dial calibrated N, NE, E, SE, S, SW, W, and NW. Complete with rotor and mahogany plastic control unit. Requires 4-wire cable (listed right). For operation from 110-120 v., 50-60 cycle AC. Less cable. Shpg. wt., 12 lbs.

92 TX 299, List, \$44.25. NET.....26.02

92 TX 336. With ivory case. List, \$46.25. NET.....27.19

92 TX 337. With green case. List, \$46.25. NET.....27.19

MODEL K-22 ROTATOR

A D Heavy-duty rotor; same as above but employs touch-bar-operated control unit. Permits clock-wise or counter-clockwise antenna rotation—simply requires light pressure on right or left side of tilting touch-bar. Lever is held down until best picture is obtained. Releasing down-pressure on bar stops antenna instantly—remains fixed without drifting. Center disc on control unit lights up when limit of antenna travel is reached. With rotor, mahogany plastic control unit and instructions. Less 4-wire cable (listed at right). For 110-120 v., 50-60 cycle AC. Shpg. wt., 12 lbs.

92 TX 338, List, \$24.50. NET.....18.01

MODEL T-12 ROTATOR

FEATURING METER-TYPE CONTROL UNIT

- Clean Straight-lined Styling of Control Unit
- Fingertip Direction of Antenna by Touch-bar

A C Heavy-duty antenna rotator, same as at left, but with meter-type control box. Control panel has clean straight modern styling with dial calibrated N, E, S, W and N. Touch-bar on top of control unit permits instant forward or reverse action. Depressing right end of bar rotates the antenna clockwise—left end, counter-clockwise. Meter pointer begins to move as soon as touch-bar is pressed. Simply release pressure on bar to stop at any desired position for best reception. Control unit in attractive mahogany plastic case measures $4\frac{1}{2}''$ high, $6\frac{1}{2}''$ wide, and $2\frac{1}{2}''$ deep. Complete with rotor, control unit and instructions. Less 4-wire cable (listed below). For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 12 lbs.

92 TX 339, List, \$34.25. NET.....22.66

92 TX 340. With ivory case. List, \$36.25. NET.....23.98

92 TX 341. With green case. List, \$36.25. NET.....23.98

MODEL TBB2 THRUST BEARING BRACKET

E Minimizes strain on rotators by relieving them of entire antenna weight. An ideal accessory when using large multi-element and multi-bay antennas. Increases rotator's weight-load capacity and assures reliable reception in windy weather. Shpg. wt., 3 lbs.

97 T 479, List, \$4.95. NET.....2.91

4-Wire Cable. For use with all Alliance rotators listed. Four—No. 20 gauge conductors. Shpg. wt., 100 ft., 3 lbs.

97 T 365. 100-ft. coil. NET.....2.70

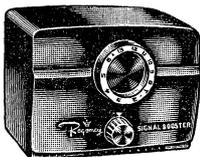
47 W 576. Over 100', PER 100'.....2.70

POPULAR TELEVISION BOOSTERS

REGENCY MODEL DB-550 VHF BOOSTER

Expertly designed booster which tremendously improves sensitivity and signal-to-noise ratio on all 12 VHF channels. Provides an average boost in gain of 17.5 db. Excellent for use in weak signal areas, the DB-550 provides greatly improved picture and sound. First stage uses 6J6 dual-triode in push-pull; second stage is 12AT7 grounded-grid, push-pull amplifier. Simple single-knob tuning. Advanced, triple-tuned circuit employs two stages in cascade, neutralized for maximum stability. Power supply has transformer for isolation of unit from power line. On-off switch controls both booster and television set. Input and output imp.: 300 ohms. Mahogany plastic cabinet. $4\frac{1}{2} \times 6 \times 4\frac{1}{2}''$. U.L. Approved. For 110-120 v., 60 cycle AC. Wt., 5 lbs.

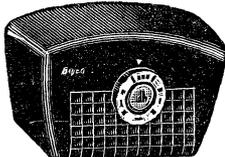
98 T 363, List, \$37.50. NET.....22.05



BOGEN MODEL BB1-A VHF BOOSTER

Advanced circuit, broadband, fringe-area booster. For improved TV picture and sound. Two 6J6 dual triodes with separate circuits for high and low bands. Provide 18 db gain. High signal-to-noise ratio. Positive, no-backlash tuning. One control 6-mc bandwidth. Housed in brown plastic cabinet. Size, $8 \times 4\frac{1}{2} \times 4\frac{3}{4}''$. For operation from 110-120 v., 60 cycle AC. U.L. Approved. With 4 feet of 300-ohm twin line. Shpg. wt., $4\frac{1}{2}$ lbs.

98 T 360, List, \$32.50. NET.....19.11



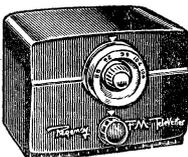
REGENCY MODEL RC-103 FM TELEVERTER

Regency converter for quality FM reception through your TV set. Full FM coverage at a fraction of the cost of an FM radio! Install in a matter of minutes—simply connect between antenna input and antenna lead-in of your TV set. Select entertainment to suit your mood—change from TV to FM at the flip of a switch.

The RC-103 is a completely transistorized unit that operates on three tiny "penlight" cells for extreme stability and convenience. Battery life approaches shelf life—drain of only 300 microamps. Handsome modern case, $4\frac{1}{2} \times 6 \times 4\frac{1}{2}''$. Less batteries (below). Shpg. wt., $\frac{1}{2}$ lbs.

92 T 349, List, \$19.95. ONLY.....14.96

53 J 031. Battery, 3 required. 3 oz. EACH.....9¢



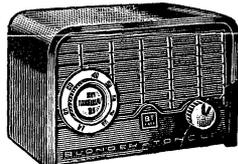
BLONDER-TONGUE UHF TV CONVERTERS

MODEL 99R CONVERTER

- Covers All UHF Channels
- Clear Reception—No Drift
- Easy to Install & Operate

Compact, handsomely styled, low-noise UHF converter designed for use in metropolitan signal areas. One-knob tuning. Choice of Channel 5 or 6 as the IF output to TV set. Extremely sharp input and oscillator tuning for every UHF channel—eliminates multiple images and troublesome interference. Input circuit is tracked with oscillator to reject spurious signals and suppress oscillator radiation. Oscillator is thermally compensated to assure minimum drift. Precise input impedance match assures maximum signal conversion; no line ghosts or picture smear. In "OFF" position, VHF signals are passed directly to TV set to permit regular VHF reception. Uses 6AF4A oscillator, crystal diode mixer and selenium rectifier. Exact 300 ohm input and output impedance match assures maximum signal power. Simple to install and operate. Meets new FCC radiation specs. Housed in mahogany-finished plastic cabinet. U.L. Approved. Size, $6\frac{1}{4} \times 4\frac{1}{4} \times 4\frac{3}{4}''$. For 110-120 volts, 60 cycle AC. Shpg. wt., 4 lbs.

98 T 586, List, \$22.95. NET.....15.95

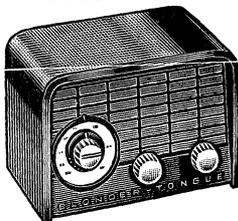


MODEL BTU-2R CONVERTER

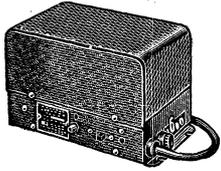
- Deluxe Hi-Gain Conversion
- Clean Steady Reception
- Sharp All Channel Tuning

High-gain, low noise UHF converter. Quickly and easily installed between antenna and TV set. Adds all the new UHF stations to any TV set quickly and easily. High signal-to-noise ratio guarantees clear, steady pictures, even in weak-signal locations. Fully shielded tuner has 3 gangs with dual-speed channel selector for precise, continuous tuning. Terminals for VHF or UHF transmission lines. Exact 300-ohm impedance match at input and output plus highly efficient triode amplification gives maximum usable signal power. Oscillator drift is minimized by thermal compensation. Highly selective, double-tuned RF pre-selector stage provides maximum gain and image rejection. Instant changeover from UHF to VHF. With 6AF4A and 6AB4, crystal diode and selenium rectifier. Meets new FCC radiation specs. Size: $6\frac{1}{4} \times 4\frac{1}{4} \times 4\frac{3}{4}''$. For 110-120 v., 60 cycle AC. Shpg. wt., 5 lbs.

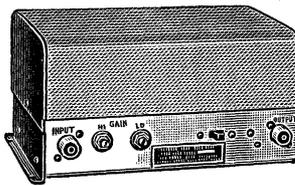
98 T 099, List, \$39.95. NET.....27.50



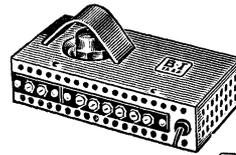
Blonder-Tongue TV Equipment



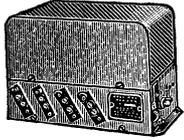
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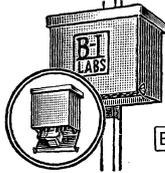
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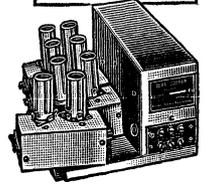
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G



H

Use Allied's free consulting service for friendly, individualized aid in solving your TV and booster problems at home, office or plant.

TV BOOSTERS AND DISTRIBUTION SYSTEMS

VHF ANTENSIFIER

A Model CA-1B. Powerful commercial TV VHF preamplifier. Provides an effective signal gain of 26 db on low band; 24 db on high band. May be used with excellent results at any point of any multiple-receiver distribution system. Ideal as a deluxe pre-amplifier in homes using several sets or as a line amplifier in master TV systems and community installations. Has precision-engineered matching transformers for use with 75 and 300-ohm lines input and output. Dual-triodes employed for extremely high signal-to-noise ratio—excellent fidelity. Sturdy-ventilated metal cabinet. Size, 8x4½x5". With 2-6J6's and 2-6BQ7A's. For operation from 105-125 volts, 60 cycles AC. Shpg. wt., 7 lbs.
98 T 218. List, \$84.50. NET..... 55.00

MLA VHF TV SIGNAL AMPLIFIER

B The "Masterline" VHF TV signal amplifier. Provides an effective signal boost of not less than 37 db. Assures a maximum output of 1.25 volts rms on each band—flat within 2 db. It is excellent where very long transmission lines weaken signal. May be installed in coax line going to single TV set, or used with antenna distribution system such as Model DA8-B above in installations feeding 2 or more TV sets from 1 antenna. Several "Masterlines" may be placed in cascade when extremely long transmission lines are used.

Offers maximum fidelity for color TV as well as black-and-white sets. Gain is adjustable on high and low bands. Response flat within ±.5 db over any 6 mc channel. Unit is self-powered and employs seven tubes.

Cascade amplifying circuits assure minimum noise level. 75 ohm coax input and output connectors. Overall size, 9x6x5" deep. In perforated gray metal cabinet. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 9 lbs.
92 T 090. List, \$142.50. NET..... 85.50

B23 TV BOOSTER-COUPLER

C Highly efficient booster-coupler unit. Permits using a single TV antenna with up to 3 sets. Provides excellent isolation between sets to assure minimum interaction. Boosts signal strength of VHF stations (channels 2-13) up to 6 db when using one or two TV sets on a single antenna. Wide frequency response assures excellent performance when used with black-and-white and color TV sets as well as FM receivers. Has broadband circuit—requires no tuning. May be quickly and easily installed—simply attach to antenna terminals. Extremely compact chassis; may be installed out-of-sight at rear of one of sets, or may be placed in any other convenient location. Input and output impedance, 300 ohms. Size, 3¼x6¼x2½". For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 1½ lbs.
92 T 342. List, \$23.95. NET..... 14.95

350

VHF DISTRIBUTION SYSTEM

D Model DA8-B. Combination booster and isolation-distribution system for use with up to 8 TV sets. Features exclusive low-noise all-triode circuitry. Requires no tuning, matching devices or preamplifiers. Ideal for use in small apartment buildings, hotels, motels, and other small master TV systems. Permits operating up to 8 TV sets from a single antenna. 22 db minimum isolation between output circuits prevents interaction between TV receivers. Provides 10 db gain to each TV set to assure full-strength signals. System overload is prevented through a 10-1 gain control range. Has inputs for 75- or 300-ohm line. Eight outputs accommodate 75- or 300-ohm line; one of these outputs may be used to feed another DA8-B to permit hook-up of additional TV sets. Unit includes power supply, terminating resistors and grounding clamp. Screw terminals permit fast installation. Designed for long life, continuous duty operation. Overall size, 5¾x9x5½". For 105-125 v., 60 cycle AC. Shpg. wt., 7 lbs.
98 T 220. List, \$94.50. NET..... 58.50

MODEL AB VHF BOOSTER

E Antenna mounted TV booster. Efficient broadband circuit provides more than 25 db gain on all VHF channels. Features exclusive push-pull, cross-neutralized circuitry assuring maximum signal-to-noise ratio. Includes indoor control box with power supply. Steps down the regular line voltage to 24 volts to operate booster. Compensates for AC voltage loss in long lines. Voltage is delivered to booster by same line that carries TV signal. Built-in filter network isolates AC from TV signal. Operation is automatic—booster turns on and off with TV set. Safety disconnect power plugs eliminate danger of exposed high voltages. Unit has 300-ohm input and output. Amplifier unit is fully enclosed in sturdy, metal weatherproof housing for installation at antenna. Overall size of amplifier: 7x7¼x5¼". Power supply: 5x3x4". With bracket and strap. For 110-120 v., 50-60 cycle AC. Shpg. wt., 10 lbs.
92 T 092. List, \$99.50. NET..... 62.00

CONNECTORS, COUPLER & TAPOFFS

F Model P-59S Male Connector. For use on "Masterline" Model MLA signal amplifier. Provides correct 75-ohm impedance match. P-59S is for RG-59/U coax cable. Shpg. wt., 3 oz.
51 C 113. List, \$1.55. NET EACH.... 95c

Model P-11S Connector. As above, but for RG-11/U coax cable.
51 C 114. List, \$1.55. NET EACH.... 95c

G Model MTO-11 Outdoor Cable Tapoff. Spliceless, weatherproof, RG-11/U cable tap. Uniform 17 db isolation, lowest shunt capacity and positive electrical protection through blocking capacitor. Less than ½ db line loss. Wt., 6 oz.
51 C 118. List, \$7.75. NET EACH... 4.65

MODEL MA4-1 MIXER-AMPLIFIER

H TV signal mixer, for up to five antennas. Amplifies and mixes up to five input signals into a common output. For either individual or master antenna systems. Permits the use of four separate high-gain Yagi antennas and one broadband antenna. Requires no rotators or boosters. Provides maximum ghost-free reception because each antenna can be individually oriented to the particular TV station desired when installed. Employs channel strips listed below. Any VHF and UHF antennas can be accommodated at any time with plug-in VHF strips and plug-in UHF converter strips. One input is broadband for signals requiring no preamplification. Remaining 4 single-channel inputs use separate plug-in strip assemblies with gain in excess of 17 db. Impedance: 75- and 300-ohms at all terminals. Ventilated gray case. Chassis, 4x6x8¾". For operation from 105-125 volts, 60 cycle AC. Less plug-in strips (listed below). Shpg. wt., 7 lbs.
98 T 305. List, \$78.75. NET..... 47.25

STRIPS & CONVERTERS FOR ABOVE

Model CS-1 VHF Channel Strips. Plug-in strips. For use with Model MA4-1 mixer-amplifier above. One strip used for each channel, for gain exceeding 17 db. Each plug-in channel strip has its own 75- and 300-ohm input terminals. Carefully designed and rigidly constructed in fully enclosed plated steel chassis. Polarized four-prong plug at one end for positive contact. Bakelite terminal strip at other end with binder-head screw terminals for antenna connections. Tubes fully shielded for reduction of noise pickup. Complete with tubes and two tinned spade lugs for low-resistance antenna connection. Tubes are 1-6AB4 and 1-6CB6. Shpg. wt., 1 lb.

Stock No.	For Channel	Stock No.	For Channel
98 T 306	2	98 T 312	8
98 T 307	3	98 T 313	9
98 T 308	4	98 T 314	10
98 T 309	5	98 T 315	11
98 T 310	6	98 T 316	12
98 T 311	7	98 T 317	13

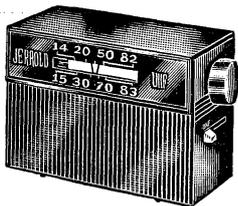
List, \$37.50. NET EACH..... 22.50

Model UC-1 UHF Converter Units. Three-tube, high-gain, plug-in converter units with 17 db gain. Unusually stable and sensitive. For UHF reception on VHF receivers using MA4-1 mixer-amplifier, above. Converts UHF signals to VHF. Uses 2 input sockets to permit use of 3 additional antennas. 300-ohm input. Employs 6AF4, 6BK7A, 6CB6 tubes; 1N72 germanium crystal diode. Shpg. wt., 1½ lbs.

NOTE: Available on special order; when ordering, specify UHF channel and unused VHF channel to be used as IF.
List, \$125.00. NET EACH..... 75.00

Jerrold TV-FM Accessories

"ULTRACON" UHF CONVERTERS

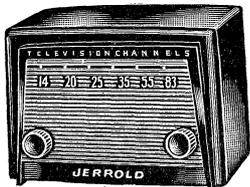


- Continuous Coaxial Tuning
- Low Noise, High Stability

Model TCU. Here's an economical, advanced-design converter for optimum UHF coverage with any TV set in normal signal areas. Delivers a stable, high-quality output signal on channel 5 or 6 with a minimum of noise.

Features include continuous coaxial tuning with no moving contacts, vernier dial mechanism, low-noise crystal diode mixer, and trimmer-tuning slug combination that holds alignment even under shock and vibration.

Low output VSWR assures absence of smear. Straight-through switch for VHF, 300-ohm input and output. 6AF4-A osc., 1N72 mixer. 614x37/8x2 3/4". U.L. Approved. For 110-120 v., 60 cycle AC. Wt., 1 1/4 lbs. **93 T 084. List, \$22.95. NET.....15.95**



- Dual-Cavity Coaxial Tuner
- Built-in UHF Antenna For Local Use

Model FTC. Deluxe converter for superior UHF reception with any TV set in signal areas from fringe to local. Low-loss, expertly designed circuit provides an exceptionally high standard of reception. Clean, stable output on channel 5 or 6.

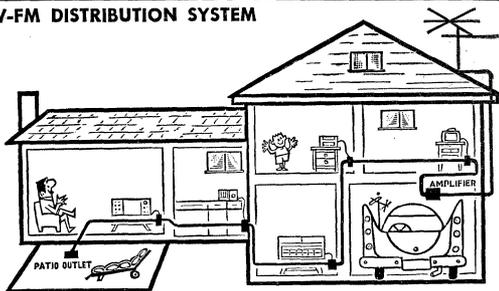
Features include a sealed dual-cavity coaxial tuner for smooth operation and maximum stability, low-noise crystal mixer, trimmer-tuning slug alignment and built-in UHF antenna for local reception.

Drift is only 0.25 mc with 95-120 volt line change. 12 db gain at 500 mc, 5 db gain at 800 mc. Low VSWR (3:1) assures absence of smear. Straight-through switch for VHF. 6AF4-A oscillator, 6CB6 IF, 1N72 mixer diode. 300-ohm input and output. 7 1/2 x 5 x 5 3/4". U.L. Approved. For 105-117 v., 60 cycle AC. 4 lbs. **93 T 085. Mahogany. List, \$27.50. NET.....27.50**
93 T 086. Blonde. List, \$39.95. NET.....39.95

NEW LOW-COST TV-FM DISTRIBUTION SYSTEM

- Quality TV-FM Reception In Every Room
- Simple Screwdriver Installation

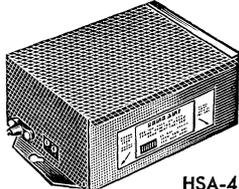
Here's a complete, low-cost TV-FM signal distribution system for the home. Provides high-quality TV and FM signals at convenient outlets in each room. Electrical isolation eliminates interference between sets. Installation is quick and easy—all you need is a screwdriver. Employs a minimum of wiring—stand-off twin lead is used throughout. System is carefully matched for clear, sharp pictures.



TV-FM Signal Outlets Throughout House

MODEL HSA-46 HOME AMPLIFIER

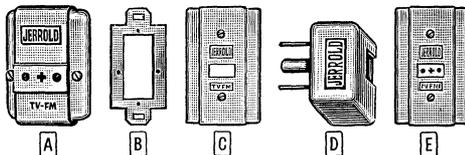
Low-noise, high-output, printed-circuit amplifier for distributing VHF TV and FM signals from a single antenna over standard twin lead. Permits clear, undistorted reception in both fringe and metropolitan areas—may be used with inputs as high as 30,000 microvolts. Response is flat within ±1 db. Employs silicon rectifiers for trouble-free continuous service. Has 2-6BK7A tube triodes. Provides over 15 db gain, presents 1.81 output VSWR, 300-ohm input and output. 9 1/2 x 5 1/2 x 3 1/2". U.L. Approved. For 110-120 v., 50-60 cycle AC. Shpg. wt., 3 lbs. **93 T 087. List, \$49.95. \$33.30 Down. NET.....33.30**



HSA-46

DISTRIBUTION SYSTEM TAPS AND ACCESSORIES

Taps and accessories for installation along twin-line. Surface-mounting basic tap (HS-21) provides 10 db receiver-line isolation, except 6 db when used as a termination unit. HS-140 tap, which mounts in a wall aperture or standard plastic outlet box, consists of an HS-21 basic tap, HS-22 mounting ring and HS-23 cover plate, and includes an HS-24 plug.



- A 93 T 088. HS-21.** Surface-mounting tap. 2 oz. **NET.....87¢**
- B 93 T 089. HS-22.** Ring to flush-mount HS-21 in outlet box. 2 oz. **NET.....18¢**
- C 93 T 090. HS-23.** Ivory cover plate in standard outlet size. 3 oz. **NET.....30¢**

- D 93 T 091. HS-24.** Twin-line plug. Attaches without stripping. 1 oz. **NET.....30¢**
 - E 93 T 092. HS-140.** Flush-mounting outlet (described above, left). 2 oz. **NET.....1.65**
- 93 T 093. HS-36.** Strap insulator for installing twin lead indoors. 1 oz. **Pkg. of 24...1.08**

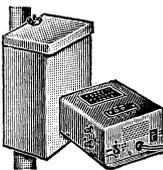
MODEL HSK-300 TV-FM DISTRIBUTION SYSTEM KIT

Contains all items necessary for a complete, economy-priced signal distribution system installation. Consists of the highly efficient HSA-46 Home Amplifier, five HS-140 flush-mounting

outlets, twelve HS-36 strap insulators and 100-foot coil of 300-ohm twin-lead transmission line. Shpg. wt., 6 lbs. **93 TX 094. List, \$67.75. NET.....43.98**

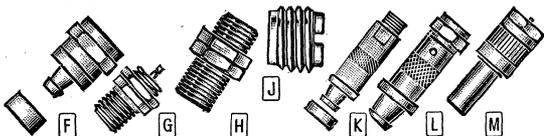
ANTENNA-MOUNTED TV BOOSTERS

Model DSA-132. Antenna mounting permits extremely high amplification without stepping up "snow"—noise ordinarily picked up by lead-in is not amplified. Power supply delivers 24 v. to booster through same line that brings in signal. Covers channels 2-13, or high or low band only. Choice of 72 or 300-ohm impedances at input and output. 25 db gain. Can be turned off and on by TV set. Weatherproof booster. 5x5x10 1/4". Power supply, 2 1/2 x 5 1/2 x 7 1/4". For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 12 1/4 lbs. **92 TX 095. List, \$109.50. \$65.75 Down. NET.....65.70**



Model DSA-62. As above, but for channels 2-6 only. Shpg. wt., 8 1/4 lbs. **92 TX 533. List, \$90.00. \$54.00 Down. NET.....54.00**

SOLDERLESS COAXIAL CABLE CONNECTORS



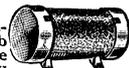
Carefully machined brass solderless connectors. Can be permanently bonded to coaxial cable with simple crimping tool. All "F" series units accurately matched to 72-ohm impedances and can be wrench tightened. VSWR is less than 1.05:1 up to 200 mc. All exposed surfaces heavily silver-plated. *With cable ferrules. Av. wt., 3 oz.

No.	Type	Fig.	Description	NET
71 C 833	*F-59	F	Male conn. For RG-59/U, cable. Mates with F-81, F-61 & A-61	.48
71 C 834	F-61	G	Female chassis fitting. Mates with F-59, AF-101, TR-72F. 3/8" mtg. hole.	.55
71 C 835	F-81	H	Female feed thru. Mates with F-59, AF-101, TR-72F. 3/8" mtg. hole.	.75
71 C 836	A-61	J	Adapter. Allows F-59, AF-101 or TR-72F to mate with C-61 female.	.05
71 C 837	*F-101-59	K	Adapter. RG-11/U cables to plug end of F-59, AF-101 or TR-72F	1.46
71 C 838	*AF-101	L	Male conn. For RG-11/U. Mates with F-61, F-81, F-101-59, A-61.	1.26
71 C 839	TR-72F	M	72-ohm terminating resistor. Mates with F-61, F-81, A-61, F-101-59.	.90

Type PL-602 Crimping Tool. For use on types F-59, F-101-59, and AF-101 above. No impedance mismatch or cable distortion. 1 lb. **71 C 840. List, \$8.17. NET.....4.90**

"TRAP-EASE" ANTENNA TRAPS

Tuneable interference trap for elimination of adjacent-channel television interference. Provides up to 50 db attenuation of the interfering signal. Removes the "beat" or "herringbone" pattern frequently caused by nearby sound or video carriers—permits reception of weak, distant stations that are usually blocked out by adjacent-channel stations having greater signal strength. Works with any TV receiver and antenna that would normally bring in pictures from the distant stations if the interfering adjacent signal were not on the air. Does not affect reception of local stations. 300-ohm input and output. Attaches quickly to TV set and antenna lead with convenient screw terminals. Size, 7 1/2 x 3 1/2" dia. Shpg. wt., 2 lbs. **93 T 828. Model HQ-91. For channels 2-6. List, \$19.95. NET.....19.95**
93 T 829. Model HQ-92. For channels 7-13. List, \$19.95. NET.....19.95



MATCHING TRANSFORMERS

Model TO-374. Antenna matching transformer designed for outdoor mast mounting. Matches 300-ohm broadband or yagi antennas to a 72-ohm line. Response is flat from 50 to 250 mc to assure highly efficient performance across the entire VHF TV band (channels 2-13). Provides 6 db voltage gain between 72 and 300-ohm lines. VSWR is 1.26:1. Unit is supplied complete with mounting strap and F-59 coaxial cable connector (described in table at left). Size, 2 1/4 x 2 1/4 x 1". Shpg. wt., 8 oz. **71 C 831. List, \$10.00. NET.....6.00**



Model T-375. Matching transformer designed for indoor use. Matches 72-ohm line to 300-ohm line. Also isolates antenna when used with AC-DC television sets. Has crimp-on coax bushing. 2 1/4 x 2 1/4 x 1". Shpg. wt., 4 oz. **71 C 832. List, \$4.85. NET.....2.91**



TV Towers and Accessories

SPAULDING SELF-SUPPORTING TV TOWERS

- Special Base Requires no Guying or Added Support
- No Concrete Foundation Required
- Preassembled Sections for Quick Installation

XCB SERIES TOWERS

A Expertly engineered high-strength antenna towers featuring special "culvert base" for quick, one-man installation without concrete. Self-supporting—require no additional guying or support of any kind! Ideal towers for fringe-area reception locations or areas where added height of antenna is necessary for stronger signal.

Towers listed contain "most-wanted" features: All-riveted construction for rigid support of any television antenna; 100% galvanized steel; special design insures easy installation of any rotator in top section.

Every unit is specially constructed to minimize the effects of strong winds, yet light enough for easy handling and quick installation. Each tower package includes heavy-duty culvert-type base with adjustable hinge feet, eight feet of mast, listed quantity of 8-ft. tower sections—all necessary parts and clearly written, easy-to-follow instructions. All sections are factory assembled.

Stock No.	Mfr's Type	Antenna Height	Sections	Lbs.	NET EACH
92 CZ 294	X28CB	23'	2	89	29.95
92 CZ 295	X36CB	31'	3	120	46.95
92 CZ 058	X44CB	39'	4	155	59.95
92 CZ 059	X52CB	47'	5	200	72.95
91 CZ 832	X60CB	55'	6	272	84.95

EP ECONOMY SERIES TOWERS

B "Economy Packs" for ground or guyed roof towers feature 8' to 48' heights at remarkable savings. Each pack has one or more 8' tower sections, a ground plate, and an 8' mast. Tower sections are rugged zinc-plated steel with com-

pletely riveted construction for maximum strength. Can be bracketed to building if ground plate is used. Require guying every 16' for roof-mounting. House bracket and roof mounting base, below, are extras.

Stock No.	Type	Ht.	Sections	Lbs.	NET	Stock No.	Type	Ht.	Sections	Lbs.	NET
92 CZ 534	EP-5	40'	5	88	39.33	92 CZ 542	EP-1	8'	1	25	13.29
92 CZ 535	EP-4	32'	4	72	32.79	92 CZ 543	EP-H	Roof	Base	2	2.88
92 CZ 540	EP-3	24'	3	56	25.92	92 CZ 544	EP-H	House	Bracket	5	3.67
92 CZ 541	EP-2	16'	2	41	20.16						

Shipped F.O.B. Frankfort, Indiana. No C.O.D. shipments—Please send full remittance to Allied with your order. Shipping charges will be collected on delivery.

KTV ANTENNA TOWERS



Complete "free-standing" tower assemblies in 20 to 50-foot heights. May be ground mounted without guy wires or added support—safe in gale up to 80 mph. Designed for easy installation on roof or ground. Have "controlled sway" lateral loading bearing joints. Sections secured by bolts in welded-on, load-bearing sleeves (see illustration). These relieve joints of load and eliminate holes in tubing. Vertical sections are 16-gauge steel tubing, zinc electroplated to resist corrosion. Heavy steel one-piece cross ties are welded to outside of vertical tubing. Top section takes masts up to 1½" O.D. 4' of bottom section mounts in concrete.

- 720-K. 20' tower. 10' top; 1-10' section. 58 lbs.
- 91 CZ 368. NET.....37.00
- 730-K. 30' tower. 10' top; 2-10' sections. 92 lbs.
- 91 CZ 369. NET.....55.50
- 740-K. 40' tower. 10' top; 3-10' sections. 126 lbs.
- 91 CZ 370. NET.....74.00
- 750-K. 50' tower. 10' top; 4-10' sections. 164 lbs.
- 91 CZ 371. NET.....92.50
- 863-H. Roof mount for above. Adjustable, flat-45°. 8 lbs.
- 91 CX 372. NET.....9.00
- 862-H. Tower base. 3½' high. Cement mtg. 12 lbs.
- 91 CZ 373. NET.....8.95

Shipped F.O.B. Shelbyville, Ill. No C.O.D. Shipping charges collected on delivery.

TELESCOPING TV MASTS



50-Ft. Mast. Heavy-duty telescoping mast of high-carbon steel. Ideal for any television array. Designed for exceptionally easy installation. H usky thumb screws lock 10' sections securely in place. 18-20 gauge high-carbon steel tubing with 1¼-oz. per in. zinc plating inside and out. Consists of 5 10-ft. sections. O.D. #1 (1¼"), #2 (1½"), #3 (1¾"), #4 (2"), #5 (2¼"). Supplied complete with free-floating guy-rings, clamps, necessary hardware and instructions. Shpg. wt., 39 lbs.

40-Ft. Mast. Consists of 4 rugged sections (see sizes listed above): Nos. 1, 2, 3, and 4. Height, 40 feet. Shpg. wt., 29 lbs.

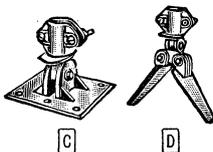
30-Ft. Mast. Consists of 3 rugged sections: Nos. 1, 2, and 3. Maximum height, 30 feet. Shpg. wt., 21 lbs.

20-Ft. Mast. Consists of 2 sections: Nos. 1 and 2 described above. Height, 20 feet. Shpg. wt., 14 lbs.

Universal and Roof Mount. Heavy-duty swivel base mount for above telescoping masts. One type that meets the requirements for almost any mast installation: For any surface—flat, slanted, or peaked. Wt., 2½ lbs.

92 C 536. NET.....1.07

PENN TV MAST MOUNTS



TV mast mounts for flat and sloping roofs and side walls. Permit one-man installation of tall, fringe area antennas. Lock in any position. Made of aluminum alloy.

C Universal roof mount. Will swivel into any position. Locked securely by special bearing. Adjustable top supports masts from 1" to 2" O.D. Shpg. wt., 2 lbs.

97 C 176. NET.....2.76

C Similar to above but for use with masts from 1" to 1¾" O.D. Wt., 1 lb.

97 C 175. NET.....2.26

D Universal peak roof mount with patented bearings for adjustment and locking at any angle. "Pennalloy" body. Adjustable top for masts from 1" to 2" O.D. Wt., 2 lbs.

97 C 177. NET.....3.35

PENN FLOATING GUY RINGS



GRA-140. Cast aluminum, floating guy ring and collar. Fastens to mast with steel set screw. Permits rotating antenna after guy wires are installed. Lubricated to assure smooth rotation.

For 3-guy or 4-guy installations. For masts to 1½". Shpg. wt., 8 oz.

97 C 178. NET.....1.12

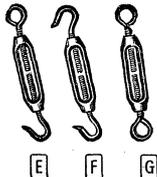
GRA-141. Same as GRA-140 but for masts up to 1¾" O.D. Shpg. wt., 9 oz.

97 C 179. NET.....1.17

GRA-142. Same as GRA-140 but for masts up to 2" O.D. Shpg. wt., 10 oz.

97 C 180. NET.....1.50

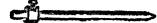
GUY WIRE TURNBUCKLES



A wide selection of turnbuckles. Provide convenient adjustment of guy-wire tension. Made of galvanized malleable iron. Fig. C has closed loops at each end for use where quick removal is not required. Other types can be easily disconnected. Av. wt., 8 oz.

Stock No.	Fig.	Closed	Open	NET EA.	10 up, EACH
44 C 790	E	5½"	7½"	12¢	11¢
44 C 791	E	6¾"	9½"	20¢	18¢
44 C 792	E	7½"	10½"	30¢	27¢
44 C 793	F	5½"	7½"	12¢	11¢
44 C 794	F	6¾"	9½"	20¢	18¢
44 C 795	F	7½"	10½"	30¢	27¢
44 C 796	G	5½"	7½"	12¢	11¢
44 C 797	G	6¾"	9½"	20¢	18¢
44 C 798	G	7½"	10½"	30¢	27¢

GROUND RODS



An excellent selection of new, low-cost ground rods. Constructed of moisture-resistant copper-plated steel. Special raised lip keeps ground lead connector permanently anchored on rod. With bolt for easy connection.

Size, 4"x¾". Shpg. wt., 1½ lbs.

92 CX 537. NET.....47c

Size, 6"x¾". Shpg. wt., 2¼ lbs.

92 CU 538. NET.....59¢

Size, 8"x½". Shpg. wt., 5 lbs.

92 CZ 539. NET.....1.35

GROUND & GUY WIRE

Aluminum Ground Wire. No. 8 solid aluminum wire. For all grounding applications.

Stock No.	Coil Length	Wt., Lbs.	NET
49 T 653	50-ft.	1½	.87
49 T 650	100-ft.	2¼	1.50
49 T 652	1000-ft.	26	13.10

No. 20 Galvanized Guy Wire. Six-strand, No. 20 steel wire. Available in 100-ft. or 1000-ft. rolls. Shpg. wt., 12 lbs.

58 T 312, 100-Ft. Roll. NET.....62c

71 TU 513, 1000-Ft. Roll. NET.....5.74

No. 18 Galvanized Guy Wire. Same as above, but for heavier-duty applications. In 100-ft. or 1000-ft. rolls. Wt., 100 ft., 2½ lbs.

51 T 319, 100-Ft. Roll. NET.....94c

71 TU 545, 1000-Ft. Roll. NET.....9.16

ANTENNA MAST SECTIONS



Ends are swaged for simplified installation. Made of heavy-wall steel with electro-galvanized finish. *Seamless type; others are seamed. All are 1¼" O.D.

Stock No.	Ht.	Wall	Shpg. Wt.	NET EACH
97 CU 137	5 ft.	.035"	3 lbs.	.71
98 CU 366*	5 ft.	.051"	4 lbs.	.97
97 CZ 138	10 ft.	.035"	5 lbs.	1.36
98 CZ 367*	10 ft.	.051"	7 lbs.	2.04

TV Mounts and Accessories

TV POWER CORDS AND CONNECTORS



A TV Power Cord and Connector. Identical to original equipment on most TV sets. No. 18 conductor; rubber-covered; 6 feet long. U.L. Approved. Shpg. wt., 8 oz. **49 T 237. NET.....26c**

9-Ft. Cord. As above, but 9' long. 12 oz. **49 T 234. NET.....33c**

TV Power Cord and Connector. (Not illustrated.) Identical to original equipment on Zenith television sets. No. 18 conductor; rubber-covered cord, 6 feet long. Rubber plug. U.L. Approved. Shpg. wt., 10 oz. **49 T 239. NET.....36c**

B Male Connector. Flush mounting; used on most TV sets. Shpg. wt., 2 oz. **49 T 238. NET.....9c**

SENCO TV JUMPER CORD

Model JC2. Universal jumper cord which extends power from back of TV set—provides serviceman with AC for soldering iron, instruments, etc. Eliminates furniture moving and bulky extensions to get AC for service equipment. Has switch for controlling TV set power from rear. $1\frac{1}{2}$ lb. **49 T 247. NET.....1.91**

ALL-PURPOSE SERVICE CORD

Female Type. One cord to service most TV sets. Plug one end in wall outlet; other end has AC outlets for service equipment, plus connectors for TV chassis. Shpg. wt., 1 lb. **52 T 665. NET.....1.03**

TELCO LEAD-IN TUBES



Type 8641. Combination plastic lead-in tube and lightning arrester. Fits walls to 16" in thickness. Has lightning arrester on outside end of wall plug on inside. Simple installation—lead-in wire is fastened under teeth of lightning arrester and contact is made to inside. Requires $\frac{3}{4}$ " mounting hole. Shpg. wt., 1 lb. **51 C 100. List, \$3.55. NET.....2.09**

Type 8958. As above, less arrester and plug. Tube takes all types of lines. Wt., $\frac{1}{2}$ lb. **71 C 559. List, \$2.35. NET.....1.37**

TACO SELECTIVE ATTENUATOR

Model 835. 300-ohm variable attenuator switch for TV and FM receivers. Cuts down strong incoming signals. Reduces sound and picture distortion caused by overdriving receivers. Positions: 0 db for no attenuation (normal reception); 15 db for minimum; 30 db for maximum. Size, $4\frac{1}{2} \times 2\frac{1}{4}$ ". Shpg. wt., 5 oz. **92 C 046. List, \$4.45. NET.....2.62**



MILLER ANTENNA TRANSFORMERS

Permits use of low-loss 52 or 72-ohm coaxial cable on 300-ohm receiver inputs. 2 required: one at antenna, and one at receiver. Excellent where long 300-ohm line gives poor picture. May be used outdoors. Size, $1\frac{1}{2} \times \frac{3}{4} \times \frac{3}{4}$ ". Shpg. wt., 2 oz. **77 G 516. Type 6161. 52 ohms. 77 G 517. Type 6162. 72 ohms. NET EACH.....1.62**

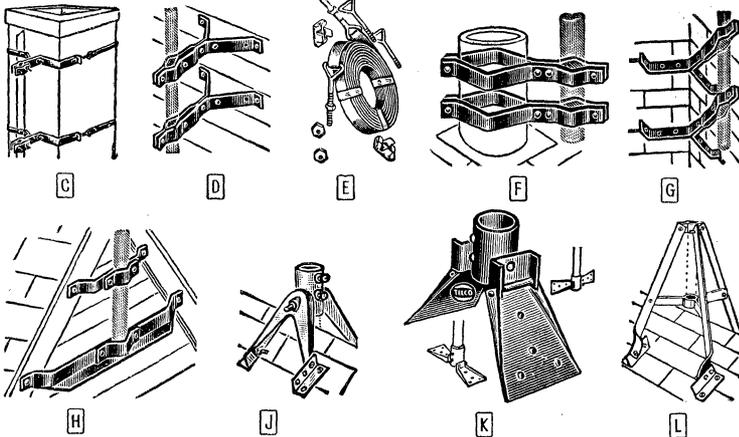


COLOR TV DE-GAUSSING COIL

A valuable aid for every TV serviceman. Extremely effective de-gaussing coil designed especially for color TV alignment. Electro-magnetic field neutralizer eliminates stray magnetic fields to allow accurate purity adjustments. With 9-ft. cord. For 110-120 volts, 30-60 cycles AC. Shpg. wt., $\frac{5}{2}$ lbs. **71 CX 666. List, \$19.95. NET.....11.95**



TELCO TV ANTENNA MOUNTS



LOW-COST CHIMNEY MOUNT

C Type 8005. Sturdy chimney bracket. An excellent choice for economy antenna systems. Can be installed in a few minutes. Only one piece to handle with a minimum of loose parts. Made of extra heavy gauge steel. Zinc-plated and dichromate-dipped for long life. Brackets securely support antenna mast—even under high wind conditions. Easily adjusted to provide snug, firm grip. Will support masts up to $1\frac{1}{2}$ " diameter. Two 12" straps and hardware included. Shpg. wt., 4 lbs. **97 C 065. List, \$2.65. NET.....1.55**

SNAP-IN WALL MOUNT

D Type 8306. Husky brackets for firmly mounting antenna mast to any flat vertical surface. Perfect for buildings with overhanging eaves. Mast snaps in place until nuts can be tightened. Permits one-man antenna installation. Constructed of heavy-gauge steel. Plated for resistance to moisture and harmful fumes. Holds mast 6" from wall. For masts up to $1\frac{3}{4}$ " in diameter. Supplied complete with plated mounting screws. Shpg. wt., $2\frac{1}{2}$ lbs. **98 C 481. List, \$2.40. NET.....1.40**

Type 8308. Same as above, but holds mast 8" from wall. Shpg. wt., 4 lbs. **98 C 482. List, \$3.90. NET.....2.28**

DELUXE SNAP-IN MOUNT

D Type 8312. Heavy-duty wall brackets. Supports mast from side of building. Legs of bracket are spaced 16" apart to match studs of homes. Side sway prevented by sturdy mounting legs. Vertical support (not shown) eliminates sag. Provides 12" wall clearance. Made of heavy gauge steel. Doubly protected—zinc plated and dichromate dipped for long life. Holds masts up to $1\frac{3}{4}$ " in diameter. Shpg. wt., 5 lbs. **98 C 483. List, \$4.20. NET.....2.45**

Type 8318. Same as above, but provides 18" wall clearance. Shpg. wt., 7 lbs. **98 CX 484. List, \$5.40. NET.....3.18**

Type 8324. Same as Model 8312, but provides 24" wall clearance. Shpg. wt., 10 lbs. **98 CX 485. List, \$7.30. NET.....4.29**

CHIMNEY MOUNT REPAIR KIT

E Type 8932. Stainless Steel. Stainless steel strapping with eye bolts, nuts and strap clamps. Replaces rusted or broken strapping on all types of chimney mounts. Heavy-gauge strapping for secure support. Stainless steel will resist weather, salt air and smoke fumes. Shpg. wt., 2 lbs. **71 C 558. List, \$3.55. NET.....2.09**

Type 8931. Galvanized Steel. As above, but strapping is galvanized steel. With bolts, nuts and clamps. 2 lbs. **71 C 556. List, \$1.80. NET.....1.06**

VENT PIPE MOUNT

F Type 8803. Handy vent pipe mount that will clamp on any pipe or vent from 4" to 6" in diameter. Perfect for antenna installations on roofs where chimney is inaccessible. Simple and easy to use. Made of extra heavy gauge steel for long life. Will support a variety of installations. Handles all masts up to $1\frac{3}{4}$ " in diameter. Securely supports antenna mast. Zinc-plated and dichromate-dipped for double protection against rusting; provides exceptionally long life. Shpg. wt., 3 lbs. **98 C 480. List, \$2.70. NET.....1.59**

SNAP-IN CHIMNEY MOUNT

G Type 8930. With Stainless Steel Strapping. Excellent mount for quick, dependable installation. Extra-heavy construction. Simply snap mast into bracket and tighten bolts. Fits masts up to $1\frac{3}{4}$ " diameter. Brackets of heavy-gauge steel, zinc-plated and dichromate-dipped for protection against rusting. With two 12-ft. lengths of stainless steel strapping. Shpg. wt., 4 lbs. **97 C 027. List, \$4.70. NET.....2.75**

Type 8610. With Galvanized Steel. As above but has galvanized steel strapping. **97 C 028. List, \$3.30. NET.....1.94**

EAVE MOUNT

H Type 8933. For mounting antenna mast on eaves of buildings. Lower bracket is 48" long to straddle side of building; angle-iron construction provides high strength. Upper bracket mounts close to peak of roof. Weather-proof—zinc plated and dichromate dipped. For masts to $1\frac{3}{4}$ " dia. Shpg. wt., 7 lbs. **98 CX 486. List, \$7.15. NET.....4.20**

"NO-GUY" ROOF MOUNT

J Type 9060. Steel and cast-iron base for mounting over ridge of peaked roof or on a flat roof. Legs adjustable to angle of roof. Will support average antenna on up to 10 ft. mast without guy wires. For masts up to $1\frac{1}{2}$ " dia. Shpg. wt., 5 lbs. **98 C 493. List, \$4.75. NET.....2.79**

HINGED-TYPE RIDGE MOUNT

K Type 9021. Highly versatile antenna mast support for mounting on peaked roofs, flat roofs or walls. Hinged type brackets adjustable for easy installation on any angle roof. Extra heavy gauge steel using heavy pipe supports. Fits mast up to $1\frac{1}{2}$ ". Zinc plated and gold dichromate dipped for double protection against rust. Shpg. wt., 3 lbs. **91 C 381. List, \$2.35. NET.....1.38**

ANTENNA BASE

L Type 9063. Sturdy antenna base. For masts of 10 feet or more and up to $1\frac{1}{2}$ " O.D. Eliminates guy wires in the average installation. Set screws anchor mast and permit orientation. Electro-galvanized; dichromated. 2-ft. high. Shpg. wt., 6 $\frac{1}{2}$ lbs. **92 CX 040. List, \$7.15. NET.....4.20**

Type 9144. As above, but 3 feet high and constructed from 1" electro-galvanized steel tubing. Shpg. wt., 8 $\frac{1}{2}$ lbs. **92 CX 043. List, \$8.30. NET.....4.88**

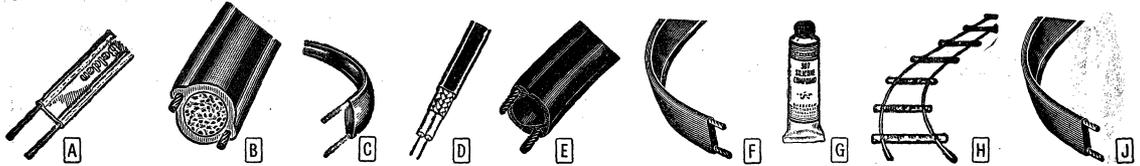
Type 9143. Same as Model 9144 but 5 feet high. Shpg. wt., 15 lbs. **92 CX 044. List, \$13.90. NET.....9.35**

LOW COST ANTENNA MOUNT

Type 8800-U. Low cost antenna mast mount designed to provide extra secure support for masts up to $1\frac{1}{2}$ "-inch outside diameter. Heavy "U" bolt and clamp with dual serrated jaws hold mast securely in position. "Extra leg" and reinforcing ribs give added strength. Doubly zinc plated and dichromate dipped for all weather protection. Shpg. wt., $\frac{1}{2}$ lb. **91 C 482. List, 66c. NET.....39c**



TV Accessories & Antennas



BELDEN, FEDERAL, AMPHENOL AND KNIGHT TWIN LINE

BELDEN TWIN LINE

A Type 8225. Flat 300-ohm twin line. Finest quality 7-28 stranded copper conductors. High-quality polyethylene jacket has 58 mil web thickness. Shpg. wt., 100 ft., 1 3/4 lbs.

49 T 385. 50' Coil. NET.....1.06
49 T 386. 75' Coil. NET.....1.47
49 T 389. 100' Coil. NET.....1.84
49 W 384. Over 100', Per 100'.....1.84

A Type 8230. Weldhomo 300-ohm twin-line. 70-mil web thickness. Conductor of 7-28 stranded copper-coated steel wire. Copper coating provides high conductivity; steel core for high strength. Wt., 100 ft., 2 lbs.

49 T 387. 50' Coil. NET.....1.11
49 T 388. 75' Coil. NET.....1.55
49 T 394. 100' Coil. NET.....1.99
49 W 383. Over 100', Per 100'.....1.99

B Type 8275. 300-ohm UHF-VHF cellulose. Has cellular plastic core, inert gas-filled. Brown polyethylene-plastic jacket. 7-28 copper-coated steel conductors. Shpg. wt., per 100 ft., 3 lbs.

49 T 396. 50' Coil. NET.....2.20
49 T 397. 75' Coil. NET.....3.09
49 T 395. 100' Coil. NET.....4.07
49 W 398. Over 100', Per 100'.....4.07

C Type 8235. 300-ohm, oval twin-line. Very low loss; for UHF-VHF use. Copper-coated, 7-28 steel wire conductors. Extremely tough 185-mil web thickness. Flexible and strong. 100-ft. minimum. Shpg. wt., per 100 ft., 5 lbs.

49 T 393. 100' Spool. NET.....4.12
49 W 399. Over 100', Per 100'.....4.12

Type 8222. 72-Ohm Twin Line. High-quality brown polyethylene jacket. .075x.128" diam. 100-ft. minimum. Shpg. wt., per 100 ft., 1 1/2 lbs.

49 T 392. 100' Spool. NET.....1.57
49 W 379. Over 100', Per 100'.....1.57

FEDERAL TWIN LINE

D Shielded 300-Ohm Line. For high-interference areas. Wt., 100 ft., 8 1/2 lbs.

49 W 498. Per Foot.....13c
100 ft. or more. Per 100 ft.....11.55

AMPHENOL TWIN LINE

E Type 214-271. Tubular 300-ohm twin line. Air-core spacing for extremely high efficiency—ideal for UHF or VHF installations. 7-28 copper conductors. 100-ft. minimum. Shpg. wt., per 100 ft., 3 lbs.

49 T 444. 100' Coil. NET.....3.41
49 W 447. Over 100', Per 100'.....3.41

Type 214-298. Four-Conductor Rotator Cable. Extruded brown polyethylene. 7-28 stranded conductors. Wt., 100 ft., 3 lbs.

49 T 423. 50' Coil. NET.....1.76
49 T 424. 75' Coil. NET.....2.44
49 T 415. 100' Coil. NET.....3.13
49 W 425. Over 100', Per 100'.....3.13

E Type 214-076. Heavy-duty, extremely durable 300-ohm tubular twin line. May also be used by amateurs—rated at 1 kw RF. Low-loss air-core spacing for high efficiency and extra durability. 7-28 bare copper conductors of high quality. 100-ft. minimum length. Shpg. wt., 100 ft., 3 1/2 lbs.

49 T 416. 100' Coil. NET.....6.23
49 W 409. Over 100', Per 100'.....6.23

F Type 214-056. Flat 300-ohm polyethylene twin line for FM and TV antennas. 56-mil web thickness. 7-28 stranded conductors. Wt. per 100 ft., 2 lbs.

49 T 434. 25' Coil. NET.....80c
49 T 437. 50' Coil. NET.....1.26
49 T 439. 75' Coil. NET.....1.73
49 T 441. 100' Coil. NET.....2.12
49 W 436. Over 100', Per 100'.....2.12

F Type 214-100. Flat 300-ohm polyethylene twin line. 100-mil web thickness. 7-28 stranded copper conductors. Shpg. wt., per 100 ft., 2 1/2 lbs.

49 T 417. 50' Coil. NET.....1.45
49 T 418. 75' Coil. NET.....2.03
49 T 413. 100' Coil. NET.....2.65
49 W 419. Over 100', Per 100'.....2.65

F Type 214-185. Flat, heavy-duty, 300-ohm twin line. Thick jacket provides extra strength for long life. 185-mil web thickness. Brown polyethylene dielectric. 7-26 stranded copper conductors. 100-ft. minimum. Shpg. wt. per 100 ft., 5 lbs.

49 T 414. 100' Coil. NET.....4.88
49 W 426. Over 100', Per 100'.....4.88

AMPHENOL TWIN LINE

F Type 214-318. Flat, 300-ohm twin line for indoor installation only. 60-mil web clear polyethylene dielectric. Shpg. wt. per 100 ft., 5 lbs.

49 T 481. 50-ft. Coil. NET.....1.35
49 T 482. 75-ft. Coil. NET.....1.85
49 T 483. 100-ft. Coil. NET.....2.32
49 W 484. Over 100', Per 100'.....2.32

F Type 214-559. "Steelcore" high strength twin line for a durable, long-lasting installation. Particularly useful wherever long runs, adverse weather and high winds are encountered. 7-28 copperweld conductors, heavy 72-mil virgin polyethylene. Shpg. wt. per 100 ft. 2 lbs.

49 T 456. 50-ft. Coil. NET.....1.31
49 T 457. 75-ft. Coil. NET.....1.79
49 T 458. 100-ft. Coil. NET.....2.28
49 W 459. Over 100', Per 100'.....2.28

AMPHENOL SILICONE COMPOUND

G Type 53-307. For water-proofing TV twin line. Maintains a constant impedance in line whether wet or dry. Covers hundreds of feet of standard 300 ohm twin line. Non-corrosive; effective up to 400° F. 1-oz. tube. Shpg. wt., 4 oz.

43 N 135. List, \$2.00. NET.....1.18

KNIGHT TWIN LINE

H UHF-VHF Open Line. 300-ohm. Loss 0.5 db per 100 ft. at 200 mc. In coil lengths below. Wt., 100 ft., 2 1/4 lbs.

47 TX 578. 400' Coil. NET.....2.17
47 TX 579. 250' Coil. NET.....4.89

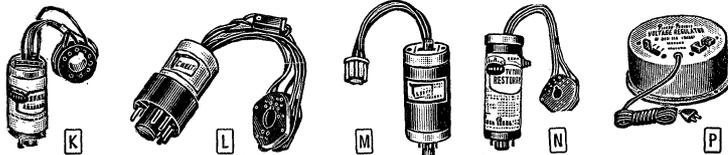
J 300-ohm VHF-TV Twin Line. High-quality twin line. 72-mil web thickness. Low-loss polyethylene jacket. No. 20 stranded conductors. 100-ft. minimum length. Shpg. wt., 100 ft., 2 lbs.

49 T 448. 400' Coil. NET.....1.74
49 W 435. Over 100', Per 100'.....1.74

E UHF-VHF Tubular Twin-Line, 300-ohm cable. 100-ft. minimum length. Shpg. wt., 100 ft., 2 lbs.

49 T 429. 100' Coil. NET.....2.58
49 W 428. Over 100', Per 100'.....2.58

PERMA-POWER TUBE "BRITENERS" AND ACCESSORIES



TV TUBE "BRITENERS"

K Model C-301 Isolation Type. Versatile brightener with 7.8 v. position, plus normal 6.3 v. position. Simple switch allows quick selection. For use in TV sets with either series- or parallel-wired tube filaments. Shpg. wt., 10 oz.

80 G 184. List, \$4.45. NET.....2.62

L Model C-201 Autoformer Type. Ideal for use in sets having series- or parallel-wired filaments. Can be installed on any black-and-white picture tube—8" or larger. 7.8 v. booster tap. Cold-anodized aluminum housing. Does not relieve cathode-filament shorts. Shpg. wt., 8 oz.

80 G 181. List, \$2.49. NET.....1.46

M Model C-401 Autoformer Type. Exceptionally low-cost TV tube brightener. Gives 7.8 volts output. Works on black-and-white electrostatic or electromagnetic focus picture tubes. 8" or larger. Does not relieve cathode-filament shorts. For use in television receivers having parallel-wired filaments only. Shpg. wt., 8 oz.

80 G 183. List, \$1.49. NET.....87c

M Model C-402. Autoformer Type. Same as above, but for use in sets having series-wired filaments only.

80 G 188. List, \$1.49. NET.....87c

M Model C-211 110° Autoformer Type. Versatile dual-purpose tube brightener for use with 110° picture tubes. Boosts output to 7.8 volts. Has switch for adapting to parallel or series-wired filaments. With button base (RCA type). Shpg. wt., 8 oz.

80 G 168. List, \$3.75. NET.....2.20

M Model C-221 110° Autoformer Type. Same as above, but with shell base. (Sylvania-Dumont type). Shpg. wt., 3 oz.

80 G 169. List, \$3.75. NET.....2.20

N Model K-101 TV Tube Restorer. Highly versatile TV picture tube restorer. Corrects open cathodes, heater-cathode shorts, open control grids, control grid-cathode shorts, low emission, etc. For either parallel or series-wired sets. Shpg. wt., 1 lb.

80 G 189. List, \$6.65. NET.....3.90

LINE VOLTAGE REGULATOR

P Model D101. Restores correct height and width to TV in locations where low line voltage causes picture shrinkage. Regulator plugs into AC outlet; TV set plugs into regulator. 3-position selector switch for boosting or lowering voltage. 300-watt rating. 4 3/4 x 4 1/4 x 2 1/4" Lts. 2 1/2 lbs.

80 G 186. List, \$6.95. NET.....4.09

STANCOR TV TUBE BOOSTER



Model PB192. Self-contained unit adds life to aging picture tubes when dimness is due to low cathode emission. For all electro-magnetic pix tubes with parallel-connected filaments. Easily installed; mounts anywhere in set without soldering. Hi-Lo switch for two levels of tube brilliance. Connector plug of booster attached to picture tube. Size, 3 1/2 x 1 1/2". Shpg. wt., 8 oz.

80 G 182. List, \$5.44. NET.....3.20

EBY CRT EXTENSION HARNESS KIT



Model K302. Consists of 3-ft. anode extension harness; 4-ft. CRT socket harness for both electrostatic and magnetic tubes; 3-ft. yoke extension harness for sets using octal plug; and socket. In rugged, heavy-duty plastic case. Shpg. wt., 10 oz.

41 H 348. List, \$5.40. NET.....3.18

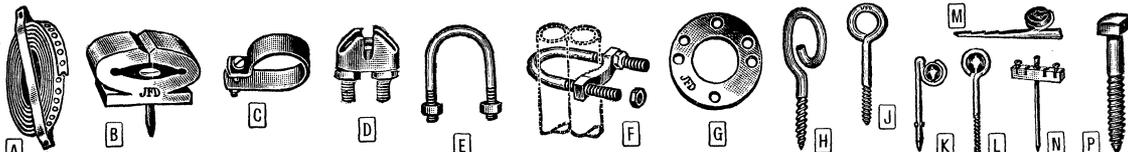
EBY COLOR & 110° CRT ADAPTER



Model AD-67. Universal CRT adapter. Adapts any commercial CRT checker or rejuvenator for 110° or color TV picture tubes. Individually checks each gun of color tube. 3-position selector switch selects correct color gun. Wt., 1 lb.

41 H 346. NET.....7.79

TV Antenna Accessories



A Hanger Strap. For mounting masts to odd-shaped objects. Made of heavy 3/4" galvanized steel strapping.

71 C 400. 12' coil. Wt., 1 lb. NET.....49¢
71 C 401. 100' coil. Wt., 5 lbs. NET.....3.43

B Wall Stand-Off Insulator. For securing twin-lead to baseboards, etc. Tack-in type. Wt., per pkg., 10 oz. 10 per pkg.

71 C 608. Per Pkg.....60¢

C Ring Clamp. Supports guy wire ring, etc. Corrosion-resistant steel. Fits mast diameters (O.D.) shown below. Shpg. wt., per pkg., 3 oz. 5 per pkg.

71 C 609. 3/4"-1". Per Pkg.....37¢
71 C 610. 1"-1 1/4". Per Pkg.....37¢

D Cable Clamp. Provides a non-slip grip on antenna and tower guy-wires. Eliminates need for splicing or soldering cable loops. Fits cables up to 3/8" dia. Solid steel U-bolt has 3/8"x24 thread. Hex nuts for easy tightening. Galvanized collar has tapered slots—increases cable grip with each turn of wrench. Size, 7/8x1 1/2". Shpg. wt., 4 oz.

71 C 686. NET EACH.....18¢

E U-Bolt. Galvanized steel. With nuts and washers. Fits up to 1 1/2" (O.D.) masts Shpg. wt., per pkg., 4 oz. 2 per pkg.

71 C 611. Per Pkg.....20¢

F Mast Clamp. Serrated yoke. For 2 masts with max. O.D. of 1 3/8" each. Galvanized steel. Shpg. wt., per pkg., 4 oz. 2 per pkg.

71 C 612. Per Pkg.....35¢

G Universal Guy Rings. Rest unanchored on ring clamp. Fit mast. O.D. below.

Shpg. wt., per pkg., 10 oz. 5 per pkg.
71 C 613. 1". Per Pkg.....33¢
71 C 615. 1 1/4". Per Pkg.....33¢
71 C 616. 1 3/4". Per Pkg.....46¢
71 C 617. 1 1/2". Per Pkg.....46¢
71 C 618. 2". Per Pkg.....48¢

H Guy Wire Hook Eye. Anchors guy wires firmly. Screws into wood. Galvanized steel Shpg. wt., per pkg., 10 oz. 5 per pkg.

71 C 619. Per Pkg.....20¢

J Hook Eye. Provides an anchoring point for guy wires. Screws into wood. 3" long. Shpg. wt., per pkg., 8 oz. 5 per pkg.

71 C 620. Per Pkg.....18¢

K Hook Eye. Anchors guy wires. 5" long. Shpg. wt., per pkg., 10 oz. 5 per pkg.

71 C 612. Per Pkg.....22¢

L Drive-In Stand-Off Insulators. Universal. For flat, oval, tubular and coaxial TV lead-ins. Shpg. wt., per pkg., 5 oz. 5 per pkg.

71 C 626. 3 1/2". Per Pkg.....17¢

L Universal Stand-Off Insulators. For use with flat, oval or tubular twin-lead, and coaxial TV lead-in. Polyethylene insulation. Fasten securely by screwing into wood. Av. shpg. wt., per pkg., 10 oz. 5 per pkg.

71 C 622. 3 1/2". Per Pkg.....13¢
71 C 623. 5 1/2". Per Pkg.....17¢
71 C 624. 7 1/2". Per Pkg.....22¢

M Universal Hot Nail Stand-Off Insulators. For flat, oval, tubular, and coaxial TV lead-in line. Holds securely when driven into wood, mortar, or brick. Length, 3 1/2". Shpg. wt., per pkg., 4 oz. 5 per pkg.

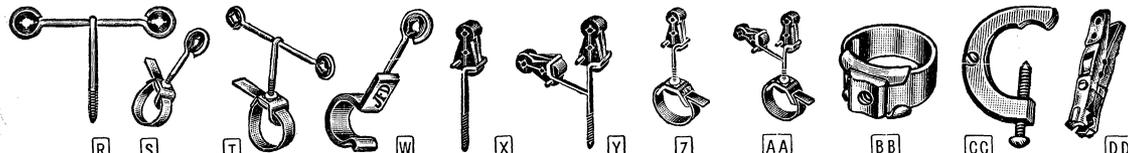
71 C 670. Per Pkg.....28¢

N Open Line Stand-Off Insulator. Has slots for 300, 450 or 600 ohm lines. 5 1/2" nail. Av. shpg. wt., per pkg., 5 oz. 5 per pkg.

71 C 670. Per Pkg.....59¢

P Heavy-Duty Lag Bolts. For rigidly securing mast mounts, tower bases, etc., to wood, brick, masonry or other surfaces. Made of heavy cadmium-plated steel. Have 1/2" diameter shank. Tighten with wrench or pliers. Av. shpg. wt., per pkg. 5 oz. 10 per pkg.

71 C 605. 1 1/2". Per Pkg.....38¢
71 C 606. 2". Per Pkg.....42¢
71 C 607. 3". Per Pkg.....50¢



R Double Stand-Off Insulators. Wood screw type. For flat, oval, tubular and coaxial lines. Av. shpg. wt., per pkg., 10 oz. 5 per pkg.

71 C 628. 3 1/2". Per Pkg.....48¢
71 C 629. 5 1/2". Per Pkg.....48¢
71 C 630. 7 1/2". Per Pkg.....48¢

S Strap-Type Single Stand-Offs. For flat, oval, tubular and coaxial lines. Mount on any mast. Shpg. wt., per pkg., 6 oz. 3 per pkg.

71 C 654. 3 1/2". Per Pkg.....20¢
71 C 655. 5 1/2". Per Pkg.....25¢
71 C 656. 7 1/2". Per Pkg.....28¢

T Strap-Type Double Stand-Off Insulators. As above, but for two transmission lines. For flat, oval and round twin-lead or coaxial lines. Av. wt., per pkg., 8 oz. 3 per pkg.

71 C 633. 3 1/2". Per Pkg.....40¢
71 C 634. 7 1/2". Per Pkg.....42¢

W Snap-On Stand-Off Insulators. For flat, oval, tubular and coaxial lines. 3 1/2" long. Fit masts (O.D.) below. Av. shpg. wt., per pkg., 8 oz. 3 per pkg.

71 C 636. 1". Per Pkg.....19¢
71 C 637. 1 1/4". Per Pkg.....19¢
71 C 638. 1 1/2". Per Pkg.....19¢

X Single Screw-Type Stand-Off Insulators. For any lead-in. Insulator swings out for insertion of lead-in. Snaps shut with finger pressure. Design assures isolation of lead-in from metal holder. Av. wt., per pkg., 9 oz. 6 per pkg.

71 C 639. 3 1/2". Per Pkg.....19¢
71 C 640. 5 1/2". Per Pkg.....22¢
71 C 641. 7 1/2". Per Pkg.....30¢

Y Double Screw-Type Stand-Off Insulators. As above, but with two insulators for securely supporting two transmission lines. Polyethylene insulation. Keeps lines well separated. Holds securely without crimping. Wt., per pkg., 11 oz. 5 per pkg.

71 C 643. 7 1/2". Per Pkg.....55¢

Z Single Strap-Type Stand-Off Insulators. For mounting stand-off insulators on masts. Easy installation; no loose parts. With polyethylene low-loss insulator design, electro-galvanized steel strap, and heavy gauge steel buckle. Bronzidite plating for maximum protection from corrosion. Installs quickly; no threading required. Av. shpg. wt., per pkg., 11 oz. 3 per pkg.

71 C 649. 3 1/2". Per Pkg.....27¢
71 C 650. 5 1/2". Per Pkg.....28¢
71 C 651. 7 1/2". Per Pkg.....32¢

AA Dual Strap-Type Stand-Off Insulators. With two polyethylene pivot-action lock insulators. Electro-galvanized steel strap. Will hold two lead-in lines or lead-in plus rotator cable. Length, 7 1/2". Shpg. wt., per pkg., 13 oz. 3 per pkg.

71 C 653. Per Pkg.....48¢

BB Mast Insulator Clamps. Consist of metal strap and nut block for 10-32 machine-screw type stand-off insulators. No need to drill hole in mast. Wt., per pkg., 5 oz. 3 per pkg.

71 C 822. For 1" masts.
71 C 823. For 1 1/4" masts.
Per Pkg.....14¢
10 or more pkgs., Per Pkg.....12¢

CC Ground Clamp. For secure ground connection to water pipes up to 1 1/2" diameter. Pointed screw tip for positive "bite"; screw terminal for ground wire. Shpg. wt., 4 oz.

51 C 310. EACH.....20¢
10 or more, EACH.....18¢

DD Antenna Clip. A very handy accessory for servicemen. Clips standard 300-ohm lead-in to antenna terminals of TV sets. Low-loss plastic clip with screw terminals for transmission line. 3 1/2" long. Shpg. wt., 2 oz.

41 C 132. NET.....10¢

JFD SET & ANTENNA COUPLERS AND ANTENNA SWITCHES

Model AC Set Couplers. Offered in a choice of 3 quality models to permit connecting 2, 3 or 4 TV sets to one antenna. With U-bolt to permit convenient mounting on antenna mast, if desired. Input and output impedance, 300 ohms. Shpg. wt., 8 oz.

Stock No	Type	Description	NET
71 C 661	AC40	2 TV sets to 1 antenna	2.06
71 C 662	AC60	3 TV sets to 1 antenna	2.35
71 C 663	AC70	4 TV sets to 1 antenna	2.85

Model AC Antenna Couplers. Designed for connecting 2 separate TV antennas to single twin-line. Eliminate need for running separate twin lines through the house. Supplied with hardware. Shpg. wt., 3/4 lbs.

Model AC10. Couples 2 antennas; high-band and low-band VHF
51 C 269. List, \$3.50. NET.....2.06

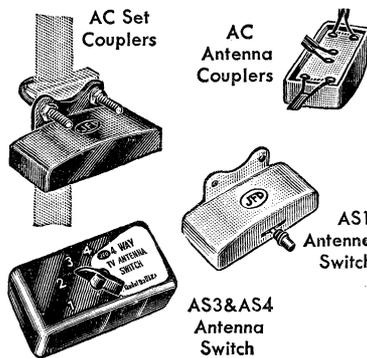
Model AC20. Couples 2 antennas. Permits connecting separate UHF and VHF antenna to a single length of twin line.
51 C 266. List, \$3.75. NET.....2.20

Model AC30. Couples 3 antennas: Low-band and high-band VHF, and UHF.
51 C 267. List, \$4.85. NET.....2.85

AS1 Antenna Switch. A smooth-operating "Bat-Handle" 3-way antenna switch. Enclosed in sturdy, compact plastic housing. Permits instant selection of any one of 3 antennas. Shpg. wt., 2 lbs.
71 C 539. List, \$3.75. NET.....2.20

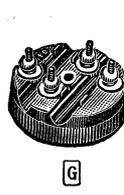
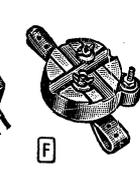
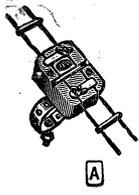
AS3 Multiple Antenna Switch. Specially designed to permit instant switching to any antenna in a multiple Yagi installation. Used with up to 3 antennas. Employs smooth-working constant-impedance rotary switch with low-resistance silver-to-silver contacts. Housed in sturdy plastic case. Size, 1 1/4x2x5". Convenient screw terminals for quick, simplified hook-up. Shpg. wt., 2 lbs.
71 C 540. List, \$4.95. NET.....2.91

AS4 Antenna Switch. Same as Type AS3 listed above, but for use with up to 4 antennas.
71 C 541. List, \$5.95. NET.....3.50



TV Antenna Accessories

JFD LIGHTNING ARRESTERS, COUPLERS, WAVE TRAPS



A AT107 Lightning Arrester. Ideal for protection of all TV sets using open-wire transmission lines. Water-proof porcelain body with nickel-plated hardware. Makes positive contact. Has stainless steel strap designed for universal mounting. Complete with 4-ft. aluminum ground wire. Size, 2x3x1½". U.L. Approved. Shpg. wt., 15 oz.
71 C 529, List, \$3.50. NET.....2.06

B AT102 Regular Flat-Line Lightning Arrester. Designed to accommodate all ribbon type twin lead. Has special retaining flange to positively prevent twin-lead from working loose. Water-proof porcelain body. Underwriters' Laboratories Approved. Complete with stainless steel hanger strap, 4-ft. aluminum ground wire and hardware. Shpg. wt., 15 oz.
71 C 479, List, \$2.25. NET.....1.32

C AT103 Lightning Arrester. Like Type AT102, described above, but for oval-jumbo and tubular twin lead-in line. U. L. Approved. Shpg. wt., 15 oz.
71 C 517, List, \$2.25. NET.....1.32

D AT105S Universal Arrester. Can be mounted on mast or pipe. Connections are made by saw-toothed screw terminals. For flat, tubular and open wire lead. Supplied with stainless steel hanger strap. U. L. Approved. Shpg. wt., 13 oz.
71 C 530, List, \$1.50. NET.....88c

E AT106. As above, less hanger strap. With ground lug and screws. Wt., 12 oz.
71 C 518, List, \$1.25. NET.....73c

D AT104 Lightning Arrester. For antenna rotator installations. Handles 4-wire lead-ins. 8 precision-spaced teeth make positive contact with conductors. U. L. Approved. With ground lug. Shpg. wt., 15 oz.
71 C 519, List, \$1.50. NET.....88c

E AT110 Lightning Arrester. For flat or open-type transmission lines. Strain-relief lip for protecting both types of lead-in. Mounts on outside wall or window sill. With ground lug. U. L. Approved. Shpg. wt., 15 oz.
71 C 531, List, \$1.50. NET.....88c

F AT110S. Similar to the Type AT110 described above, but supplied with a stainless steel hanger strap. Shpg. wt., 15 oz.
71 C 532, List, \$1.75. NET.....1.03

F AT131 Lightning Arrester. For flat, tubular, oval, or open-wire transmission lines. Saw-tooth washers assure positive contact without cutting stripping of wire. Constructed of low-loss material for full signal strength. With wood screw and strap. U. L. Approved. Shpg. wt., 10 oz.
71 C 537, List, 75c. NET.....44c

G Model RA-2 Two-Set TV Antenna Coupler. For operating two TV receivers from the same antenna. Offers full signal strength to both receivers. Gives efficient operation on all VHF and UHF channels. Maintains constant 300-ohm impedance. Extremely compact. Quickly and easily attached with single mounting screw. Shpg. wt., 6 oz.
71 C 660, List, \$1.65. NET.....97c

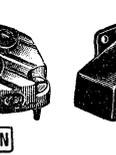
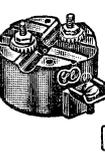
H "Tele-Plex" TV Set Couplers. For operation of 2 to 4 TV receivers from a single antenna. Simply plug 300-ohm antenna lead-in into coupler input and plug in 300-ohm lead from each set. Bakelite case with built-in lightning arrester. *With arrester. Size, 6x3x3". With mounting screws and complete instructions. Shpg. wt., 1 lb.

Stock No.	Mfrs. Type	Used for	NET EACH.
98 C 140	TC2L*	2 sets	7.03
71 C 658	SC2	2 sets	6.44
98 C 141	TC4L*	up to 4 sets	7.61
71 C 659	SC4	up to 4 sets	7.03

Model TT2. Economy Coupler. 2-set TV coupler for low-cost installations. Designed to permit convenient operation of 2 TV receivers from a single antenna. Has input for 300 ohm lead in from antenna and 2 outputs for 300 ohm TV antenna inputs. For indoor installation. Has screw-type terminals for connecting twin lines. Less arrester. Shpg. wt., 1 lb.
98 C 143, List, \$3.75. NET.....2.20

J Model HP50 Interference Eliminator. Filters out RF, diathermy, and other TV interference without affecting strength of television signal. Eliminates all interfering frequencies up to 50 mc. Employs expertly designed lumped-constants circuit, high-Q capacitors and air-core coils. A compact, highly efficient unit. Easily installed. Size, 5x3x2". Shpg. wt., ½ lb.
71 C 671, List, \$4.50. NET.....2.65

POPULAR LIGHTNING ARRESTERS AND COUPLERS



RCA ARRESTERS & COUPLER
K Type 235A1 Arrester. Expertly designed low-loss UHF-VHF lightning arrester—no splicing, stripping, or soldering of antenna line necessary. Screw cap type—forces antenna line against staple contacts which pierce insulation and make positive contact with conductors. Underwriters' Laboratories Approved. Strap type for mounting on mast or water pipe. Shpg. wt., 8 oz.
51 C 229, NET.....82c

L Type 240A1 Coupler. Set Coupler. For operating two or more TV sets from one antenna having a 300-ohm transmission line. Save cost of additional antenna for that second set. Utilizes resistance elements only—does not affect impedance characteristics of transmission line. Designed to provide necessary isolation between TV receivers to reduce interference caused by interaction of their oscillators. Easily installed. Shpg. wt., 6 oz.
51 C 246, NET.....1.15

TCLC LIGHTNING ARRESTER
M Type 8642. Extremely versatile, low-cost lightning arrester. For use with round, oval, flat, or open lines. Requires no stripping, cutting, or splicing of insulation. Toothed circular contacts make firm contact. Underwriters' Laboratories Approved. Mounts on walls. Shpg. wt., 6 oz.
51 C 242, List, \$1.25. NET.....73c

PORCELAIN ARRESTER
A low-cost, general purpose lightning arrester. Designed for series insertion in single-wire lead-in lines of radio receivers. Ruggedly constructed of high-quality, moisture-proof, glazed porcelain. Has high barrier between terminals for extended leakage path. Sturdy hex nut terminals assure solid, permanent connections. 2-hole mounting. U.L. Approved. Shpg. wt., 6 oz.
51 C 280, NET.....25c

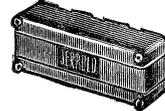
AMPHENOL ARRESTERS & COUPLERS
N Type 114-328 Arrester. An efficient universal lightning arrester. For flat, tubular, or open line. No stripping, cutting, or splicing of line necessary. Knife-edge contacts, cut through insulation to make positive contact. Low loss, phenolic body. With screws for mounting. Underwriters' Laboratories Approved. Shpg. wt., 5 oz.
51 C 247, List, \$1.50. NET.....88c

O Type 114-329. As above, with strap mount.
51 C 289, List, \$1.75. NET.....1.03

P Amphénol Tele-Couplers. Highly efficient couplers for operating up to 4 TV sets from one VHF or UHF antenna. Permits using a single transmission line to antenna. Bifilar wound network provides high degree of isolation to prevent interaction between sets. Also offers very low insertion loss to insure full strength signals to all sets. Weather-proof plastic case with protected screw-type terminals. May be installed indoors or outdoors. Shpg. wt., ½ lb.
51 C 114-088, 2 set Telecoupler.....2.20
51 C 272, List, \$3.75. NET.....2.20
51 C 114-090, Up to 4 set coupler.....3.38
51 C 274, List, \$5.75. NET.....3.38

R Amphénol Color-Couplers. Highly efficient couplers for connecting two, three or four TV sets to one antenna. Provide effective isolation of sets and low signal loss through proper impedance matching. Work equally well with either color TV sets or black and white. Excellent also for matching FM radios to a single antenna. Have attractive appearance as well as weather-proofing and durability—suitable for either indoor or outdoor installation. Have built-in strain relief (flanged mount) for antenna lead-in. 2-screw mounting. Wt. ¼ lb.
51 C 114-097, 2 sets to 1 antenna.....1.73
91 C 841, NET.....1.73
51 C 114-098, 3 sets to 1 antenna.....2.32
91 C 842, NET.....2.32
51 C 114-099, 4 sets to 1 antenna.....2.91
91 C 843, NET.....2.91

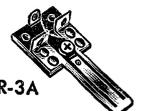
JERROLD TV COUPLERS



Isolating Couplers. High quality, exceptionally low-loss couplers. Models for use in either fringe or metropolitan areas. Permit the operation of 2, 3, or 4 receivers on the same antenna. Feature AC isolation between AC-DC TV sets and antenna. Effectively suppress oscillator interaction and interference in receivers. 300-ohm impedance matching is maintained for full signal strength to all sets. Sturdy case is universal mounting type. Fully conceals and protects all connecting lead-terminals. Types MF-2 and MF-4 are designed for fringe area reception. Type M-2 is for coupling in strong signal areas. Each measures 4½" long, 1½" wide, and 1¼" deep. Shpg. wt., 6 oz.

Stock No.	Mfrs. Type	Description	NET EACH
71 C 841	M-2	For 2-sets. Blue-Gray.	2.10
71 C 842	MF-2	For 2-sets. Ivory.	2.70
71 C 843	MF-4	For 3 or 4-sets. Ivory.	3.45

BLONDER-TONGUE LINE SPLITTER

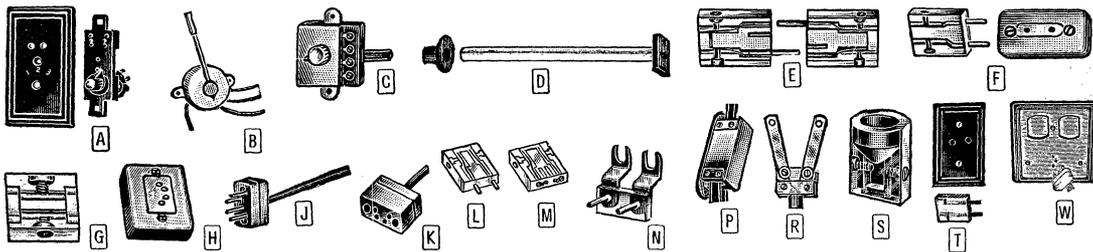


Model LS4-4. Provides low-cost means of dividing 300-ohm twin-line into four branches from one input. Enables signal to be distributed to four TV sets. Maintains 300-ohm impedance match. Excellent for multiple installations such as in apartments. Size, 2½x4¼x1". Shpg. wt., 8 oz.
51 C 287, List, \$8.50. NET.....5.30

BLONDER-TONGUE THERMO RELAY

Model TR-3A. Replacement relay used in boosters and converters which automatically turn on and off with TV set. Silver contacts adjustable for time delay of 1 to 4 seconds; will handle up to .5 amp @ 117 v. or ¼ amp @ 220 v., AC. Uniform operation over current range of 1-3 amps. 2¼x1x¾". Wt. 2 oz.
51 C 210, List, \$2.00. NET.....1.30

Television Accessories



MOSLEY TWIN LINE ACCESSORIES

A Type F-10 3-Way Switch and Lead-in Socket. Switch and single twin-line socket in one flush-mounted unit. With faceplate. Shpg. wt., 12 oz.
40 C 336. With brown plate.
40 C 335. With ivory plate.
NET EACH.....2.31

B Type F-20 3-Way Antenna Switch. Selects any of 3 antennas. Constant impedance in all positions. Mounts on back of TV set. Shpg. wt., 12 oz.
40 C 338. Brown plastic case. **NET EACH. 2.31**
40 C 423. Ivory plastic case.

C Type F-40 2-Way Antenna Switch. Same as Type F-20 above, but for 2 antennas.
40 C 425. Brown plastic case.
40 C 426. Ivory plastic case.
NET EACH.....1.21

D Type 625 Wall-Thru Insulator. For twin line or RG-59/U coax. Fits any wall up to 1 1/2" thick. Includes polystyrene tube 14" long, inside plate and outside cap. If desired, universal TV socket, 343-PK (listed below) may be installed directly on inside plate. Select matching color. Shpg. wt., 1 lb.
40 C 430. Brown plastic ends.
40 C 440. Ivory plastic ends.
NET EACH.....1.21

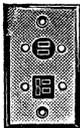
Type 625PK. Same as Type 625 above, but with universal TV lead-in socket for inside wall plate. Ivory. Shpg. wt., 1 lb.
40 C 441. **NET.....1.85**

E Type 321 Polarized Connector. Efficient twin-line connector consisting of 2 polystyrene plugs, each with one male and one female. Assures proper polarization. 1 1/2" long. Shpg. wt., 2 oz.
72 C 711. **PER PAIR.....37c**

F Type 343-PK Transmission Line Sockets with Plug. Can be mounted on inside plate of 625 Wall-Thru. With solderless twin line plug and mtg. screws. Shpg. wt., 2 oz.
40 C 413. Brown plastic case.
40 C 412. Ivory plastic case.
NET EACH.....66c

CINCH-JONES WALL PLATE

For terminating TV lead-in and rotator cables in standard wall outlet. Wall plates are chrome-plated. S-302 for antenna lead-in, S-302-4 for lead-in plus 4 rotator wires; S-302-8, for lead-in and 8 rotator wires. Shpg. wt., 7 oz.



WPC Style TV Wall Plates

41 C 646. S-302. **NET.....1.22**
41 C 647. S-302-4. **NET.....1.49**
41 C 648. S-302-8. **NET.....1.63**

CCT Style Plugs for Above

40 H 802. P-302. Antenna plug. **NET...43c**
40 H 804. P-304 4-wire rotor plug **NET. 51c**
40 H 808. P-308 8-wire rotor plug **NET. 62c**

"CLEAR-PIX" TELEVISION INTERFERENCE FILTERS

Minimize or eliminate common TV interference. Effective against



21 mc amateur transmitters, diathermy machines, strong FM stations, ignition, and other high frequency sources. 300 ohms. Screwdriver adjustment. Shpg. wt., 5 oz.

Stock No.	Mfr's Type	Interference Used For	NET EACH
51 C 043	CPH	21 mc amateur	1.17
51 C 044	CPD	Diathermy machine	
51 C 046	CPF	Strong FM station	
51 C 045	CPI	Ignition or similar	

G Type 27-S Flat-Line Polystyrene Splicer. Strip wires, insert, and tighten set screws for positive electrical contact. Size, 3/4x2 1/4". Shpg. wt., 2 oz.
72 C 706. **NET EACH.....11c**
10 for.....99c 100 for.....8.91

H Solderless Base Sockets. Precision molded polarized multi-wire connectors for 4 and 8 wire flat or round cable. Use with line plugs listed below. Shpg. wt., 2 oz.

Stock No.	Type	Description	NET
40 C 437	354	For 4-wire cable	.84
40 C 439	358	For 8-wire cable	1.08

J Line Plugs. Solderless; for 2, 4 and 8 wire; take flat or round cable. Shpg. wt., 2 oz.

Stock No.	Type	Description	NET
40 C 429	303	For 2-wire cable	19c
40 C 431	301	For 4-wire cable	46c
40 C 433	378	For 8-wire cable	62c

K Line Sockets. Take plugs, above. Polystyrene; for connecting or terminating multi-wire cable. Shpg. wt., 2 oz.

Stock No.	Type	Description	NET
40 C 434	364	For 4-wire cable	60c
40 C 436	368	For 8-wire cable	77c

L Type 301 Plug. Ideal for connecting TV antenna lead-in to set or booster. Made of polystyrene. 1/2" pin spacing (fits socket below). Shpg. wt., 2 oz.
72 C 705. **NET.....19c**

M Type 311 Socket. For use with twin-line plug above. Standard 1/2" spacing. Polystyrene insulation. Shpg. wt., 2 oz.
72 C 709. **NET.....19c**

N Type 304 Mosley Antenna Connector. For connection of lead-in to TV antenna terminal. Fits Type 311 socket, above. Shpg. wt., 2 oz.
40 C 339. **NET.....19c**

P Type 902 Dual-Match TV Coupler. Operates 2 TV sets from 1 antenna. For 300-ohm line. Shpg. wt., 3 oz.
40 C 424. **NET.....1.82**

Type 904. Four-Set Coupler As 902 above, but accommodates up to 4 sets.
40 C 445. **NET.....3.86**

R Type 263S. "Y-TV" for connecting all types of transmission lines to TV antenna elements. Solderless, screw connections 4" max. width. Wt., 6 oz.
40 C 443. **NET.....40c**

S Type 29-S Tubular To Flat-Line Splicer. For joining tubular or oval 300-ohm lines to standard flat lines. Clear polystyrene. Shpg. wt., 3 oz.
40 C 442. **NET.....13c**

T Type F-1PK Flush Socket and Wall Plate. For 300-ohm twin-line. Fits standard outlet box. Plastic plate. With plug and mtg. bracket. Shpg. wt., 6 oz.
40 C 419. Brown. **NET.....1.21**
40 C 418. Ivory. **EACH.....1.21**

Type F-11PK Dual Flush Socket and Wall Plate. Similar to above, but for 2 twin-line connections, with plug. Shpg. wt., 6 oz.
40 C 417. Brown. **NET.....1.66**
40 C 416. Ivory. **EACH.....1.66**

Type F-111PK Triple Flush Socket and Wall Plate. Similar to above, but for 3 twin-line connections. With plug. 6 oz.
40 C 427. Brown. **NET.....1.66**
40 C 428. Ivory. **EACH.....1.66**

Type F-14PK Combination Flush Socket and Wall Plate. Similar to above, but for 300-ohm twin-line and 4-wire rotator cable. Plastic plate, with plugs. Shpg. wt., 6 oz.
40 C 415. Brown. **NET.....2.17**
40 C 414. Ivory. **EACH.....2.17**

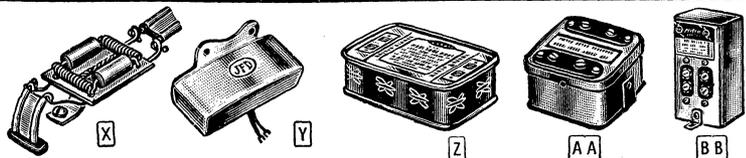
Type F-114PK Combination Flush Socket and Wall Plate. As above, but for 2 twin-lines and 4-wire rotator cable. With plug. 8 oz.
40 C 448. Brown plastic. **NET.....2.17**
40 C 449. Ivory plastic. **EACH.....2.17**

W AC-TV WALL PLATE SOCKETS. Shpg. wt., 6 oz.

AC-1PK. For 2 AC sockets and 300-ohm twin-line.
40 C 407. **NET.....1.16**

AC-14PK. As above, plus 4-wire rotor.
40 C 408. **NET.....2.05**

AC-18PK. Same as Type AC-1PK, plus 8-wire rotor.
40 C 409. **NET.....2.28**



TV INTERFERENCE FILTERS

REGENCY HIGH-PASS FILTER
X Model HP-45. Attenuates signal frequencies below 55 mc. Provides effective aid in elimination of TVI. Has "K" type filter with cut-off frequency of 45 mc in a 300 ohm line. Approximately 20 db attenuation at 29 mc; 40 db or more at frequencies of 14 mc and below. Signals above 55 mc are passed through filter without loss. With mtg. bracket. 1 1/2"x7/8". Shpg. wt., 2 oz.
77 C 569. List, \$1.65. **NET.....97c**

JFD INTERFERENCE FILTERS
Y Model WT26. Reduces cross-channel and other interference caused by diathermy machines, amateur transmitters, TV set oscillators and other signal sources. Simply attaches to the back of any TV set—no brackets or special installation necessary. For channels 2-6. With screws and instructions. Overall size, 5x2 1/2"x3 1/4". Shpg. wt., 8 oz.
77 C 680. List, \$4.50. **NET.....2.65**
Model WT713. As above, but for channels 7-13.
77 C 681. List \$4.50. **NET.....2.65**

AMPHENOL HIGH-PASS FILTER
Z Model 114-330. Excellent high-pass filter for reducing TV interference caused by transmitters, diathermy, ignition, etc. Quickly and easily installed. Provides almost 60 db attenuation of interference below 50 mc. 300 ohms. 1 1/2"x4 1/4"x3 1/8". Shpg. wt., 6 oz.
51 C 279. List, \$6.95. **NET.....4.09**

R. L. DRAKE TVI FILTER
AA Model TV-300-HP. High-pass interference filter for any TV set with 300-ohm antenna input and 20 or 44-mc IF's. Attenuates interference from 0 to 52 mc more than 40 db; highly effective on 6-meter interference. Fully shielded. 2 1/2"x2 1/2"x1 1/8". 1/2 lb.
77 C 567. **NET.....3.50**

J. W. MILLER HIGH-PASS FILTER
BB Model 6168. For use at TV set. Reduces interference from medical and industrial equipment, transmitters, etc. Cuts off below 40 mc. 300 ohms. Size, 1 1/2"x1 1/8"x3 1/2". Shpg. wt., 1/2 lb.
70 G 191. **NET.....3.23**

TV Components and Accessories

"COMFORT LINE" TV TABLES



33



81
87



531
537



561
567

All "Comfort Line" TV tables employ a tubular steel frame and offset legs for extra rigidity. Shipped unassembled—set up in a jiffy.

Model 33 TV Table. Swivel-top table for 17" to 21" table-model TV sets. Arms extend from 17" to 30". TV set is easily turned to desired direction. Stands 19½" high. Plastic glides on legs. Satin black. Shpg. wt., 10 lbs.
98 CX 966, NET.....4.63

Model 71 Phono-TV Table. Not illustrated. Table top is 1-piece sheet steel. Holds any size portable or table-model TV set, phonograph, etc. Arms extend from 17½" to 32". Stands 23" high. 2" casters. Satin black. Has shelf for storage of records. Shpg. wt., 12 lbs.
99 CX 149, NET.....6.63

Model 77. As above, but brass-plated arms, legs, shelf and record holder; satin black table top.
99 CX 159, NET.....8.63

Model 81 TV Table With Shelf. New, beautifully styled swivel-top TV table. Fits any table-model TV set—arms extend from 17½" to 32". Stands 18" high; 3" lucite casters. Satin black finish. Has shelf for storing books, records, etc. Shpg. wt., 10 lbs.
99 CX 131, NET.....5.97

Model 87. As above, but bronze-plated top.
99 CX 132, NET.....7.96

Model 531 Portable TV Table. For all portable TV sets. Includes storage shelf. Arms extend from 13" to 21". 24" high; 2" lucite casters. Satin black. Shpg. wt., 9 lbs.
99 CX 204, NET.....5.30

Model 537. As above, but brass-plated.
99 CX 240, NET.....7.30

Model 561, Heavy-Duty TV Table. Has strong tubular steel frame top to hold the heavier, bigger TV sets with screens 21" or larger. Sets too heavy for easy lifting and carrying may be conveniently wheeled to different house locations as desired. Arms extend from 18½" closed to 35" open. Has wire shelf for storage of record albums, books, magazines, etc. Stands 18½" high; 3" lucite casters. Satin black finish. Shpg. wt., 13 lbs.
99 CX 438, NET.....7.30

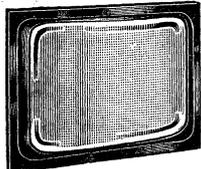
Model 567. As above, but brass-plated.
99 CX 439, NET.....9.30



Model 511, TV Table Cart. Doubles as a rolling TV table-stand for small TV or phono sets—or as a serving cart! The curved, tubular steel frame lines are sturdily constructed. Arms extend from 17" to 22". Has storage shelf. Stands 24" high; 3" lucite casters. All black except for brass cart handle. 13 lbs.
99 CX 448, NET.....7.30

Model 517. As above, but all brass-plated except for black table top.
99 CX 449, NET.....9.30

TV TUBE DELUXE PLASTIC MASKS



Solid, optically clear, ¼"-thick plastics safety masks for rectangular picture tubes. Prevents tube breakage and guards against "implosion" and shattering. Gold metal luster finish border. Easy to install. Shpg. wt., 1¼ lbs.

Stock No.	For Tube	Size	NET
97 CX 923	17" Rect.	13¼x16¾"	5.35
97 CX 913	21" Rect.	15½x21½"	8.00

WALDOM TV MASK ASSEMBLIES



Ideal for use with cylindrical-face, rectangular tubes in custom TV installations—also for converting small screen TV receivers to a larger picture tube. Has metallic gold-finished escutcheon green-sprayed aluminum mask, and heavy protective glass. U.L. Approved. 21" assembly has 3½" tilt light reflections. With mounting hardware and instructions. Av. shpg. wt., 7 lbs.

Stock No.	For Tube	Size	NET
97 CX 917	17" Rect.	13½x17½"	12.70
97 CX 914	21" Rect.	17½x21½"	18.43

TELEVISION FILTERS

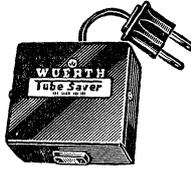


Scientifically tinted (gray) to protect eyes. Effectively minimize glare and improve picture contrast. Usable with any type of picture tube. All have square corners and may easily be cut as required. Av. shpg. wt., 1 lb.

Stock No.	Used With	Size	NET
71 CX 814	16-17" sets	13x17"	2.19
71 CX 820	19-21" sets	16x21"	2.79

COLOR TINTED!

G-C "WUERTH" TUBE-SAVER



Model 5303. A highly effective device for extending TV picture tube life—minimizes servicing and replacement costs. "Thermal cushioning" action prevents high surge voltages which damage tubes when TV is turned on. Plugs into wall outlet; set

plugs into Tube-Saver. 2¼x2½x1¼". For 100 to 300 watt sets. For 110-120 v., AC or DC. Shpg. wt., 7 oz.

80 G 146, List, \$4.95, NET.....2.91

Model 5304. For color TV sets; 250 to 400 watts. Shpg. wt., 12 oz.
80 G 149, List, \$5.95, NET.....3.50

VIDAIRE "KINE TEST"



Tester for checking electro-magnetic picture tubes by substitution method. No need to remove picture tube or chassis from cabinet. Just plug tester into picture tube socket. Electron-ray tube dynamically checks filament, bias, and 1st anode voltages, video signal, etc. Compact—easily fits in tool chest. With instructions. Size, 4½x1½". Shpg. wt., 6 oz.

84 C 017, List, \$4.90, NET.....2.88

PERMA-POWER HORIZONTAL BAR GENERATOR



Type B101. Provides series of horizontal lines for accurate checking of picture linearity. Also used for setting of deflection yoke and focus coil or magnet. Plugs into all duo-decal-type picture tube sockets. With instructions. Size 1½x1½". Shpg. wt., 5 oz.

51 C 212, NET.....1.72

CRT HI-VOLTAGE CONNECTOR



Second-anode connector. Silver plated, snap-button plug; makes perfect contact with picture tube. Well insulated by 1½" diameter rubber cap. Shpg. wt., 4 oz.

41 H 347, NET.....29c

"NU-LIFE" CATHODE-RAY TUBE RESTORER



Remarkably versatile unit. Corrects many kinds of shorts and opens in magnetic-focus and electro-static-focus picture tubes. Permanently eliminates such defects as: open cathode, permanent cathode to filament, shorted control grid to open control grid; or any combination of these. For use with either series or parallel-wired sets. Ingenious terminal board arrangement with plug-in leads allows undamaged elements to take the place of the damaged elements. Simple instructions come with unit. Also provides an easy and inexpensive method of restoring picture tube brightness. Built-in potentiometer allows adjustment to correct for low filament emission and slow heating. Shpg. wt., 12 oz.

80 G 145, NET.....4.95

RCA TV RECEIVER SERVICE PARTS

Exact duplicate replacement parts for RCA TV receivers with part numbers as given in RCA servicing and replacement manuals. Shpg. wt., 1½ lbs., except *15 lbs., 16 oz., 3½ lbs.

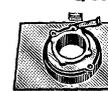
Stock No.	Mfr's Type	Component	NET EACH
77 G 186	74586*	Power Transformer	25.23
77 G 146	74588	Horiz. Output & HV Transf.	14.70
77 G 188	74950	Vert. Deflection Output Transf.	4.59
77 G 263	74952§	Deflection Yoke	6.34
77 G 266	75221†	Selenium Rectifier	1.73
77 G 192	75508*	Power Transformers	14.11
77 G 193	75519	Horiz. Output & HV Transf.	4.41
77 G 268	76168	Focus Magnet	7.71
77 G 195	76501	Horiz. Output & HV Transf.	4.23
77 G 255	76653§	Deflection Yoke	6.53
77 G 256	77697§	Deflection Yoke	6.85

RCA COLOR TV SERVICING AIDS

A "must" for service kits. Types 222X1 and 223X1 are for RCA color TV 1956 sets. Types 220X1 and 221X1 are for 1956 and 1957 sets. Types 224X1, 225X1 and 226X1 are for 1957 color television receivers.

Stock No.	Mfr's Type	Component	Wt., Oz.	NET EACH
77 G 310	220X1	CRT Socket Ext. Cable	9	7.25
77 G 311	221X1	Reflecting Yoke Ext. Cable	7	3.43
77 G 312	222X1	Converging-Magnet Assembly Ext. Cable	6	3.33
77 G 313	223X1	Hi-Volt Ext. Cable	2	1.32
77 G 314	206P1	Hi-Volt Interlock Plug	2	.41
77 G 315	224X1	Converging-Magnet Ext. Cable	2	2.62
77 G 316	225X1	Hi-Volt Ext. Cable	6	1.32
77 G 317	226X1	Grid Shunt	9	4.70

QUAM FOCALIZER UNIT



Type QF-4. For quick, accurate focusing and centering of raster. Fits all picture tubes regardless of size or anode voltage. Size, 1¼x3¼x5½". Shpg. wt., 1 lb.

41 H 133, NET.....2.50



BARKHAUSEN ELIMINATOR

Very effective in eliminating Barkhausen oscillations. These oscillations appear as dark vertical lines. Fits around the horizontal output tube. For use on 6BQ6, 6AU5, 6AV5, etc. Shpg. wt., 3 oz.

41 H 129, NET.....73c

MILLER ADJUSTABLE ION TRAP



Model 6295. Universal single-magnet ion trap. Screw adjustment allows magnetic field to be varied between 32-55 gaussers. Replaces any single-magnet trap within this gauss range. Greatly reduces your inventory. Extension spring permits easy installation. Shpg. wt., 6 oz.

60 H 796, List, \$1.25, NET.....73c



CLAROSTAT REGULATORS

Type TVA. Protects TV sets from line voltage surges. Reduces surge of 140 v., down to 110 v. Plug-in type. For sets using 200-300 watts. Shpg. wt., 5 oz.

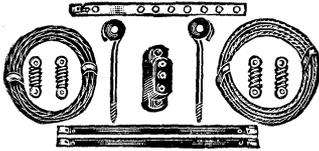
31 E 085, NET.....2.06

Type TVB. For sets having a power consumption of 300 to 375 watts. Diameter, 1¼"; length, 3¼". Shpg. wt., 5 oz.

31 E 086, NET.....2.35

AM Antennas, Antenna Kits, TV Tuner

CONSOLIDATED ANTENNAS

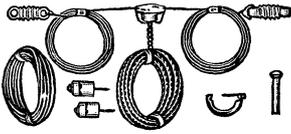


MODEL 615 LONG WAVE, SHORT WAVE & BC ANTENNA KIT

An excellent antenna kit for short-wave reception. Will also perform well on the long-wave and broadcast bands. Contains all wire and parts for any one of the following antennas: balanced doublet; double doublet; or inverted-L. Includes: 100 ft. of bare antenna wire; 50 ft. of insulated transmission line; 4 insulators; 2 bakelite screw eyes; doublet lightning arrester; lead-in strip; and ground clamp. With instructions. Shpg. wt., 3/4 lbs.

51 C 263. NET.....4.26

MODEL 635 DOUBLET ANTENNA



A highly efficient doublet antenna. Provides excellent short-wave, long-wave, and broadcast band reception. Doublet sections are tuned to provide uniform response throughout the 16-49 meter short-wave band. Kit contains 2-30 ft. coils of 7/24 bare copper wire; 50 ft. of twisted and braided transmission wire; 10 ft. of ground wire; 3-3" glass insulators; ground clamp; porcelain lead-in tube; 2 porcelain nail-knobs; and easy-to-follow installation instructions. Shpg. wt., 3/4 lbs.

51 C 264. NET.....3.72

COPPERWELD ANTENNA WIRE

High-quality, copperweld antenna wire. Features copper outer conductor and steel core. May also be used for guying antenna tower.

Stock No.	Gauge	Feet	Wt., Lbs.	EACH
49 T 133	12	100	2	2.69
49 T 134	12	250	5	6.30
49 T 140	14	100	1 1/2	2.37
49 T 141	14	250	3	5.12
58 T 318	18	250	2	1.63
58 T 317	18	500	3	2.94
58 T 315	18	3000	18	14.48

STANDARD COIL TUNER

Model NA-2100 Neutrode Replacement Tuner. Replaces TAA-050, 21-mc pentode and TCA-050, 21-mc cascode tuners. Features neutralized-triode circuit to provide substantial improvements in gain, signal-to-noise ratio, and general performance. Delivers excellent pictures even in fringe areas. Uses 6BN4 RF amplifier and 6CQ8 converter. Printed circuit board. Has improved filter circuits and shielding; greatly reduced oscillator drift and radiation. IF frequency is pre-adjusted at factory to approx. 23.5 mc; can be adjusted over a wide range to suit specific installation requirements. Requires 125-150 v. D.C. plus heater voltage. With full instructions. Shpg. wt., 3 lbs.

60 G 228. NET.....19.35

TYPE 31M-213 TV TUNER STRIPS

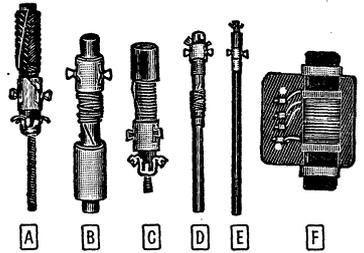
Replace original Standard Coil strips. Set includes antenna and oscillator strip for VHF (channels 2-13 only). Specify channel number required and tuner series letter stamped on original strips. 4 oz.

Stock No.	For Series	Stock No.	For Series
60 GG 322	F	60 GG 326	R
60 GG 323	H	60 GG 327	Q/R
60 GG 324	K	60 GG 328	U
60 GG 325	O		

NET EACH.....2.19

SUPEREX HIGH-GAIN LOOPSTICK ANTENNAS

A complete selection of low-cost, high-efficiency, ferrite-core antennas. Ideal for replacing old-fashioned loop antennas. Feature extremely high gain and uniform response. Will greatly improve signal to noise ratio, and pull in many hard-to-get stations that can't be heard with ordinary loops. Troublesome orientation or moving of receivers is not required, since reception is equally sensitive from all directions. Extremely compact size and stable performance. Easily mounted. Tune 540 to 1600 kc with 365 or 410 mmf tuning capacitor.



A VLT-240 Transistor Vari-Loopstick. Has impedance tap; convenient micrometer adjustment. Easily adjusted for peak efficiency. Simplified, one-hole snap-in mounting. For use with 365 mmf or 410 mmf variable tuning capacitor. Size: 7/8x2". Shpg. wt., 4 oz.

51 C 029. NET.....73c

B Ferri-Loopstick. Excellent, low-cost, replacement antenna for AM broadcast receivers. Needs no orientation. Has "Q" of 240-275 for clear, powerful reception. Supplied with clamp for convenient single-hole snap-in mounting. Size: 7/8x2 1/2" long. Shpg. wt., 4 oz.

51 C 036. NET.....44c

C Vari-Loopstick. For AM broadcast receivers, including the smallest portables. Has "Q" of 250. Adjustable ferrite core permits peaking for any portion of tuning range. Single-hole snap-in mounting. Size: 7/8x2 1/4". Shpg. wt., 4 oz.

51 C 034. NET.....59c

C Vari-Tonna. For use with older radio sets equipped with built-in antenna. Features high sensitivity and excellent signal-to-noise ratio. Boosts gain up to 25 times. Single-hole mounting. 1/2x2 1/2". Wt., 4 oz.

51 C 032. NET.....73c

D "Energized" Ferri-Loopstick. This 5" loopstick has a "Q" of up to 350. Extremely high gain brings in weak, distant stations. Adjustable coil with self-locking vinyl collar permits peaking antenna for optimum results. Convenient single-hole mounting. Size: 3/8x5". Shpg. wt., 6 oz.

51 C 038. NET.....88c

E 7" Loopstick. Same as "energized" loopstick described above, but 7" long for even greater sensitivity. Has "Q" of up to 425. Shpg. wt., 6 oz.

51 C 039. NET.....1.32

F High "Q" Transistor Loopsticks. Ideal universal replacement for most transistor sets. Feature extremely high "Q" core. Have movable turns and multiple impedance taps; provide complete adjustment for maximum gain. Flat design provides excellent pick-up. All tune 540 to 1600 kc with standard 365 or 410 mmf tuning capacitor. Complete with installation instructions.

Stock No.	Mfr's Type	μH	Size	Shpg. Wt.	NET EACH
51 C 025	2FT-240	200-265	2 1/4"	4 oz.	1.62
51 C 026	3FT-240	200-265	3 3/8"	4 oz.	1.62
51 C 027	5FT-240	175-260	5 1/4"	4 oz.	1.62
51 C 028	7FT-240	170-265	7"	4 oz.	1.76

REPLACEMENT ANTENNA LOOP

Wound on rigid fiberboard form. Has lug terminals. Replaces antenna coil in battery and midset sets or portables. Turns may be removed to match loop being replaced. Overall size, 6x8 1/4". Shpg. wt., 8 oz.

51 C 040. 1 to 9, NET EACH.....53c

10 or more, EACH.....48c

MINIATURE ANTENNA LOOP

For use where space is limited. Covers standard broadcast band with midset variable capacitors. 9x38 Litz wire for low loss. 214 microhenries; high "Q" of over 230. Two 4" leads. Overall size, 3 1/4x5 1/4". Shpg. wt., 8 oz.

51 C 035. 1 to 9, NET EACH.....40c

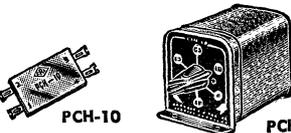
10 or more, EACH.....36c

WINDOW LEAD-IN

Made of soft drawn flexible copper, covered with heavy black cotton braid. Thoroughly weatherproofed with multiple coats of Duco lacquer. For use with broadcast band and short wave antennas having single-wire lead-in. Fits under window. Has Fahnestock clip on each end. 12" long by 1/2" wide. 2 oz.

51 C 050. NET.....9c

CENTRALLAB TV H-PADS



For use in strong signal areas where TV signal requires attenuation to obtain optimum performance. H-pad has 4 terminals. Installed in series with 300-ohm antenna lead-in. Size: 1 1/4x1 3/8x3/16". Shpg. wt., 1 oz.

No.	Type	Attenuation	EACH
11 L 190	PCH-10	10 db	88c
11 L 191	PCH-20	20 db	
11 L 192	PCH-30	30 db	
11 L 193	PCH-40	40 db	

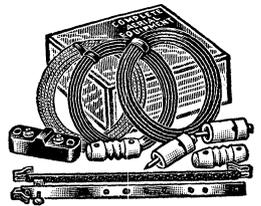
PCH-100. Set of 4 H-pads, one each of above, in plastic box. Shpg. wt., 2 oz.

11 L 194. NET.....3.53

PCH-4. Switch with H-Pads above. With mounting bracket. 2 1/2x2 1/2x2 3/4". 8 oz.

11 L 454. NET.....5.88

DELUXE BC-SW ANTENNA KIT



Handy antenna kit for broadcast and short wave reception. Increases "pulling power" of any set. Includes 100 ft., 7x26 bare copper antenna wire; 40 ft. rubber covered lead-in; 25 ft. rubber covered ground wire; 2 porcelain insulators; 1 window lead-in; 1 lightning arrester; 2 porcelain nail knobs; 1 ground clamp and full instructions. Shpg. wt., 2 1/2 lbs.

83 C 101. NET.....2.04

Standard BC-SW Antenna Kit. 50 ft., 7x26 bare copper wire; 25 ft. lead-in; 2 antenna insulators; 2 nail knob insulators; 1 window lead-in and ground clamp. Shpg. wt., 1 1/2 lbs.

83 C 100. NET.....1.03

SERVICE INSTRUMENTS CO.

"UP-DOWN" VOLTAGE REGULATORS

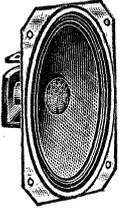
Type LB2. An extremely handy, multi-purpose voltage regulator for the servicing bench. Designed to increase low line voltage or decrease high line voltage. Raises or lowers line voltage 10 volts by simple flick of a switch. Can be used with any television receiver or appliance which has a power consumption of 300 watts or less. Restores proper picture width and height; increases brightness; remedies oscillator drift and poor sync; and helps extend tube life. Size: 2 1/2x3 7/8x3 7/8". Rated, 300 watts. For operation from 115 volts. 60 cycles AC. Shpg. wt., 3 lbs.

63 G 985. NET.....5.85

Type LB2 (N). Same as Type LB2 described above, but has neon indicator which operates when output voltage is too high—indicates when regulator should be turned off. Indicator light goes on when output voltage of regulator reaches 126 volts.

63 G 987. NET.....7.03

Quality Replacement Speakers



Oval



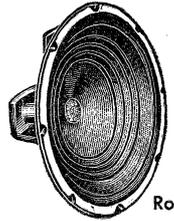
Square

FAMOUS QUAM ADJUST-A-CONE SPEAKERS

Rugged construction,
trouble-free operation
and excellent sound
reproduction.



Pincushion



Round

PERMANENT MAGNET SPEAKERS

High-quality PM speakers for replacement and original-equipment applications in radios, phonographs, TV sets, etc. All except 25A07, 3A07 and 4A06 have "Adjust-A-Cone" voice coils; all 3 1/2" to 6 1/2" speakers, except 4A06, are supplied with universal mounting bracket. *Indicates very shallow frame. Magnets are Alnico-V. Voice coil impedance, 3.2 ohms.

Stock No.	Mfr's Type	Shape	Size	Max. Watts	Magnet Weight	Wt., Lbs.	NET EACH
81 D 066	25A07	Square	2 1/2"	2.0	.65 oz.	1/2	2.35
81 D 346	3A07	Square*	3 1/2"	2.5	.68 oz.	1/2	2.35
81 D 309	4A06	Square*	4"	2.5	.58 oz.	1/2	1.73
81 D 320	4A07	Square*	4"	3.0	.58 oz.	1/2	2.35
81 D 321	4A1	Square	4"	3.0	1.0 oz.	3/4	2.50
81 D 322	4A15	Square	4"	3.0	1.47 oz.	3/4	2.76
81 D 347	46A07	Oval*	4x6"	3.5	.68 oz.	3/4	2.62
81 D 371	46A1	Oval	4x6"	3.5	1.47 oz.	1	4.79
81 D 372	46A15	Oval	4x6"	3.5	1.47 oz.	1	3.03
81 D 323	5A07	Pincushion*	5"	3.5	.68 oz.	3/4	2.47
81 D 324	5A1	Pincushion	5"	3.5	1.0 oz.	1	2.62
81 D 325	5A15	Pincushion	5"	3.5	1.47 oz.	1	2.85
81 D 803	52A1	Pincushion	5 1/4"	4.0	1.0 oz.	1	2.73
81 D 317	52A21	Pincushion	5 1/4"	4.0	2.15 oz.	1 1/4	3.35
81 D 348	57A1	Oval	5x7"	5.0	1.0 oz.	1	3.17
81 D 334	57A15	Oval	5x7"	5.0	1.47 oz.	1	3.41
81 D 339	57A21	Oval	5x7"	5.0	2.15 oz.	1 1/4	3.79
81 D 326	6A1	Pincushion	6 1/2"	5.0	1.0 oz.	1	2.82
81 D 327	6A15	Pincushion	6 1/2"	5.0	1.47 oz.	1	3.06
81 D 328	6A21	Pincushion	6 1/2"	5.0	2.15 oz.	1 1/4	3.44
81 D 332	6A31	Pincushion	6 1/2"	6.0	3.16 oz.	1 1/2	3.97
81 D 373	69A2	Oval*	6x9"	8.0	1.4 oz.	1 1/2	4.41
81 D 374	69A3	Oval	6x9"	10.0	3.2 oz.	1 3/4	5.26
81 D 331	7A21	Pincushion*	7"	6.0	1.4 oz.	1	4.26
81 D 387	7A31	Pincushion	7"	9.0	3.16 oz.	2	5.00
81 D 329	8A21	Pincushion	8"	7.0	2.15 oz.	1 1/2	4.23
81 D 330	8A31	Pincushion	8"	9.0	3.16 oz.	2 1/4	5.00
81 D 388	10A31	Round	10"	9.0	3.16 oz.	2 1/4	6.17
81 D 804	10A4A	Round	10"	10.0	4.46 oz.	3 1/4	6.88
81 D 805	10A6A	Round	10"	12.0	6.8 oz.	3 1/2	8.00
81 DX 333	12A31	Round	12"	10.0	3.16 oz.	3 3/4	6.67
81 DX 806	12A4A	Round	12"	12.0	4.64 oz.	4	7.44
81 DX 807	12A6A	Round	12"	14.0	6.8 oz.	4 1/2	8.53

QUAM REAR-DECK KITS



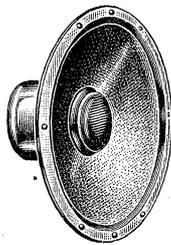
Model AS-3. Complete rear-deck speaker kit featuring a 5x7" "Adjust-A-Cone" speaker specially designed for automobile use. Speaker provides excellent tonal quality and is ruggedly built to withstand severe road shock. Has 3/4" precision-centered voice coil and efficient 1.47-oz. Alnico V magnet. Fader control for exact adjustment of balance between radio-mounted speaker and rear-deck speaker. Kit is ready for quick, easy installation. Supplied complete with 18 feet of cable pre-wired to fader control, flocked grille, baffle plate, all necessary hardware and easy-to-follow installation instructions. Shpg. wt., 2 1/4 lbs.

81 D 140. NET.....7.03

MODEL AS-2. Deluxe kit with heavy-duty 6x9" "Adjust-A-Cone" speaker. Ample capacity to handle the full output of the most powerful auto sets. Has 2.15-oz. Alnico V magnet and 1" voice coil. Includes fader control, 18 feet of cable, flocked screen grille, baffle plate, sponge rubber gasket, mounting hardware and instructions. Shpg. wt., 3 1/2 lbs.

81 D 390. NET.....8.20

TOP-VALUE DANISH 12" SPEAKER



- Twin-Cone Design
- Wide Frequency Range
- Rich Tonal Quality

An outstanding value in an imported 12" twin-cone speaker. Designed by Denmark's finest craftsmen—featured by Allied at exceptionally low cost. Ideal for use in limited-budget music systems, and for improving the tone of TV sets, radios, and phonos. Has two carefully coordinated cones driven by the same voice coil. The smaller, auxiliary radiator cone helps attain a wider frequency range than a single-cone speaker of the same size. Provides rich reproduction of low, mid-range, and high

frequencies. Efficient Alnico V magnet. Voice coil impedance, 6 ohms. Shpg. wt., 5 lbs.
81 DX 068. ONLY.....7.95

"HUMI-GARD" OUTDOOR SPEAKERS

Quam speakers with the exclusive "Humi-Gard" cone of plastic impregnated synthetic fiber fabric. Designed to outlast ordinary moisture-proofed cones, yet provide the response of an untreated paper cone. Resists sand and dirt abrasion. Voice coil impedance, 3.2 ohms. You can save by buying in large quantities. Write for quotations.

Stock No.	Mfr's Type	Size	Shape	Max. Watts	Magnet	Wt., Lbs.	NET EACH
81 D 308	3A07OT	3 1/2"	Square	2.5	.68 oz.	1/2	2.35
81 D 393	4A10T	4"	Square	3	1.0 oz.	1	2.50
81 D 306	5A15OT	5"	Pincushion	3.5	1.47 oz.	1	2.85
82 D 260	6A15OT	6"	Pincushion	5	1.47 oz.	1 1/4	3.06

ELECTRO-DYNAMIC SPEAKERS

Field coils made from carefully tested materials. 3.2-ohm impedance. Wattage ratings are conservative. 4", 5", 6 1/2" and 4x6" speakers have universal mounting brackets. fEquipped with hum-bucking coils.

Stock No.	Mfr's Type	Size	Shape	Field Ohms	Max. Watts	Wt., Lbs.	NET EACH
81 D 350	4E45	4"	Square	450†	3.0	1	3.09
81 D 375	4E65	4x6"	Oval	450†	3.5	1 1/4	3.67
81 D 352	5E45	5"	Pincushion	450†	3.5	1 1/4	3.23
81 D 353	5E10	5"	Pincushion	1000	3.5	1	3.23
81 D 356	6E6V	6 1/2"	Pincushion	6-V.	5.0	1 1/2	3.82
81 D 357	6E10	6 1/2"	Pincushion	1000	5.0	1 1/2	3.82
81 D 378	69E6V	6x9"	Oval	6-V.	8.0	2	4.41
81 D 368	7E6V	7"	Pincushion	6-V.	7.0	2	4.41
81 D 361	8E10	8"	Pincushion	1000	7.0	1 1/2	4.41
81 DX 364	12E10	12"	Round	1000†	12.0	5	8.23

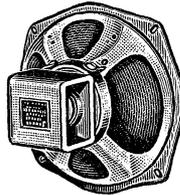
HIGH-IMPEDANCE INTERCOM SPEAKERS

PM speakers designed for replacement in intercommunications systems. Voice coil impedance is 45 ohms.

Stock No.	Type	Size	Shape	Magnet	Shpg. Wt.	NET
81 D 808	3A07Z45	3 1/2"	Square	.68 oz.	1/2 lb.	2.50
81 D 809	4A1Z45	4"	Square	1.0 oz.	3/4 lb.	2.65
81 D 810	5A1Z45	5"	Pincushion	1.0 oz.	1 lb.	2.76

See page 329 for listings of Quam PA speakers.

JENSEN "CONCERT SERIES" PM SPEAKERS



An excellent selection of Jensen's highly popular "Concert Series" PM speakers. Wide choice of sizes cover almost any replacement or original-equipment application. New DP-Alnico V magnets provide exceptionally good efficiency and distinct reproduction. Cones are selected for maximum frequency response characteristics. Rigid frame maintains proper alignment of voice coil and magnet structure. All speakers listed below have 3.2-ohm voice coil impedance, except Type P275-Y which is 16 ohms (for transistor radios) and Type P8-S, 8 ohms. All except P275-Y and P4-W have bracket for mounting matching transformer.

Stock No.	Mfr's Type	Size	Shape	Magnet Weight	Watts	Wt., Lbs.	NET EACH
82 D 171	P275-Y	2 1/2"	Round	0.65 oz.	.15	1/4	3.67
82 D 271	P4-W	4"	Square	1.0 oz.	2.0	1 1/2	2.47
82 D 272	P5-W	5"	Square	1.0 oz.	2.5	1 3/4	2.68
82 D 176	P5-V	5"	Square	1.47 oz.	3.5	1 3/4	2.85
82 D 273	P6-W	6"	Square	1.0 oz.	3.0	2	2.85
82 D 179	P6-V	6"	Square	1.47 oz.	4.0	2	3.12
82 D 181	P6-T	6"	Square	3.16 oz.	6.0	2	4.59
82 D 195	P69-V	6x9"	Oval	1.47 oz.	5.0	2 1/2	4.41
82 D 183	P8-U	8"	Square	1.73 oz.	6.0	2 1/2	4.50
82 D 184	P8-T	8"	Square	2.5 oz.	7.0	2 1/2	5.23
82 D 185	P8-S	8"	Square	4.64 oz.	8.0	3 1/4	6.67
82 D 197	P11-T	10"	Round	2.5 oz.	8.0	5	6.32
82 DX 190	P12-T	12"	Round	2.5 oz.	9.0	5	6.94
82 DX 270	P31A-T	14x3"	Oval	3.16 oz.	7.5	2	7.50

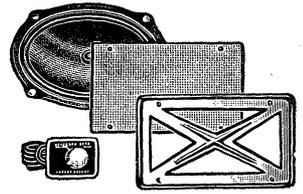
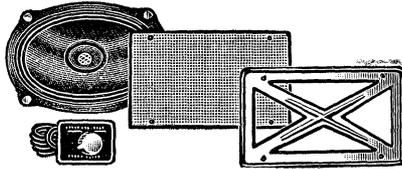
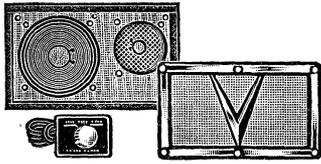
JENSEN SPEAKER VOLUME CONTROLS

L-pads for volume control at individual speakers—no effect on volume of other speakers in system. Smooth, gradual control. Excellent for use in PA, intercom and home music systems. With knob and on-off dial. Shpg. wt., 5 oz.

Stock No.	Type No.	Ohms	Watts	NET
33 M 942	ST-760	3-4	5	1.97
33 M 940	ST-276	6-8	5	1.76
33 M 941	ST-411	6-8	15	2.76
33 M 938	ST-837	15-16	15	2.76
33 M 939	ST-761	500-600	15	3.65

knight Top-Value Speakers and Grilles

REAR-DECK AUTO RADIO SPEAKER KITS



DELUXE DUAL-SPEAKER KIT

\$1134

One of the finest rear deck speaker kits available, this distinctively styled unit features two separate speakers.

Provides unusually rich and thrilling auto radio sound; makes it possible for all passengers in car to enjoy enhanced musical reproduction. Consists of a 4" speaker and a 6" speaker, mounted side-by-side on a baffle board. 4" speaker serves as an efficient tweeter for reproducing treble notes. 6" speaker is used as a woofer for bass response. A highly efficient, built-in high-pass filter, mounted on the baffle board, distributes highs and lows to the proper speaker.

The smartly styled grille, in a choice of two attractive finishes, adds a distinctive touch to any car interior. Easy to install, the kit includes a dash-mounted, three-way switch for instant selection of radio-mounted speaker only, rear-deck dual speakers only, or all speakers together. Grille size, 7x11 1/2". Supplied complete with switch, wire, all hardware and easy-to-follow instructions—everything needed for a quick, simple installation. Shpg. wt., 3 lbs.

81 D 130. Chrome Grille.

81 D 131. Gray Grille.

NET EACH.....11.34

EXTENDED-RANGE SPEAKER KIT

As Low As
\$539

High-quality extended-range speaker kit for rear deck mounting. Has duo-type speaker with specially designed, high-frequency cone mounted at its center; provides balanced reproduction of bass and treble. Offers much richer tonal quality and sound dispersion than conventional, single-cone speakers. The duo-speaker employs the natural baffle of the automobile body to deliver pleasingly smooth reproduction throughout the audio range. Handsomely styled grille, available in choice of two finishes, adds a touch of beauty to any car interior.

A dash-mounted, 3-way switch, permits playing the radio-mounted speaker only, duo-speaker only, or all speakers simultaneously. Allows all passengers to hear radio broadcasts at a comfortable listening level—eliminates need for turning up front-seat volume. Kit includes switch, wire, all hardware and complete instructions.

Stock No.	Size	Grille	Lbs.	EACH
81 D 132	5x7"	Gray	2	5.39
81 D 133	5x7"	Chrome	2	5.55
81 D 135	6x9"	Gray	2 1/2	5.71
81 D 134	6x9"	Chrome	2 1/2	5.88

STANDARD REAR-DECK SPEAKER KIT

As Low As
\$375

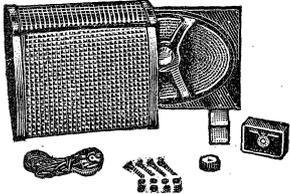
A value-packed luxury item at remarkably low cost. These economically priced, rear-deck speaker kits are

ready for quick, trouble-free installation in any car. Provide outstanding sound and add immensely to the listening pleasure of all the passengers in your car, without the need for turning up car radio volume to annoying loudness. Assure excellent tonal quality and greatly improved sound distribution.

Dash-mounted, 3-way control switch permits operation of front speaker only, rear speaker only, or both speakers together. Speakers are top-quality, Alnico V PM type with handsome, protective grille. Kits are available in two popular speaker sizes. Contain everything needed for a neat, custom installation. Your choice of two attractive finishes. Kits include: grille, pre-wired 3-way switch, all wires and hardware, mounting template and complete instructions—nothing else to buy.

Stock No.	Size	Grille	Lbs.	EACH
81 D 558	5x7"	Gray	2	3.75
81 D 559	5x7"	Chrome	2	3.92
81 D 501	6x9"	Gray	2 1/2	4.49
81 D 502	6x9"	Chrome	2 1/2	4.65

DELUXE SPEAKER KIT FOR STATION WAGONS



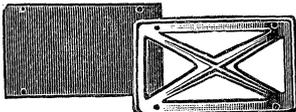
\$938

Smartly styled speaker kit for installation in station wagons. Mounts on roof, adjacent to rear window. Kit features high-quality

6x9" Alnico V oval speaker enclosed in gold finished, metal-mesh basket. Has modern, contoured appearance to match interior of any station wagon. Delivers rich, full-toned sound. Dash-mounted 3-way switch permits use of front speaker only, rear speaker only, or both together. Eliminates need for unpleasantly loud radio volume to enable all passengers to hear programs clearly. Kit includes mounting brackets to fit any station wagon, pre-wired switch, hardware, and installation instructions. Shpg. wt., 2 1/2 lbs.

81 D 195. NET.....9.38

knight SPEAKER GRILLES ONLY



Distinctive, chrome finish speaker grilles for either 5x7" or 6x9" rear deck speakers. Attractive and durable chrome finish stays bright after years of wear. Include all mounting hardware. Av. shpg. wt., 1 lb.

FOR 6x9" SPEAKER.

82 D 251. NET.....1.13

FOR 5x7" SPEAKER.

82 D 252. NET.....1.08

TOP BUYS IN COAXIAL SPEAKERS

AS LOW AS
\$628

Outstanding values for economy-minded music lovers. Dependable, high-quality, 8", 12" and 15" coaxial speakers. Ideal for use in economy hi-fi systems, as extension speakers in recreation room and den, and for improving the tone of radios and phonographs. Unusually good high-frequency response and faithful bass reproduction. Have 6-8 ohm impedance and "Alnico V" magnets. Tweeters mounted on cross bars attached to speaker frames. Built-in crossover networks.

8" COAXIAL SPEAKER. 8" cone; has 2.15 oz. magnet. 2 3/4" tweeter with .68 oz. magnet. Rated at 8 watts. Range: 70-12,000 cycles. Crossover: 3000 cycles. Shpg. wt., 3 lbs.

81 D 607. NET.....6.28

12" COAXIAL SPEAKER. 12" cone; has 6.8 oz. magnet. 5" tweeter with 1 oz. magnet. Rated at 15 watts. Range: 55-12,000 cycles. Crossover: 2000 cycles. Shpg. wt., 8 lbs.

81 DX 638. NET.....9.95

15" COAXIAL SPEAKER. 15" cone; has 6.8 oz. magnet. 5" tweeter with 1.47 oz. magnet. Power handling capacity: 20 watts. Delivers outstanding bass response. Range: 45-12,000 cycles. Crossover frequency: 1800 cycles. Shpg. wt., 11 lbs.

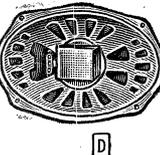
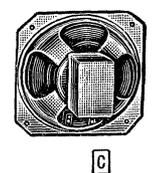
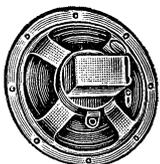
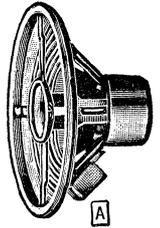
81 DX 608. NET.....15.27

REPLACEMENT SPEAKER VALUES

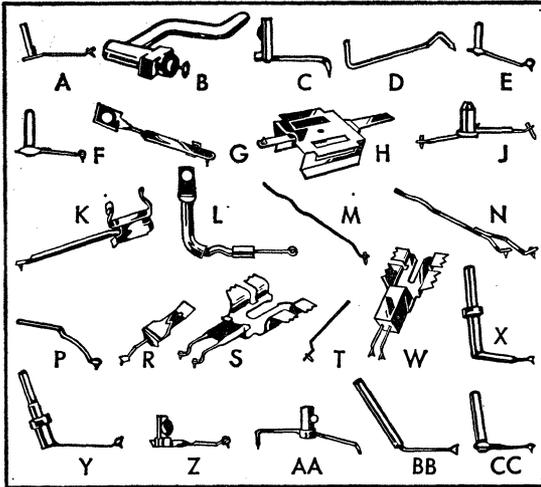
AS LOW AS
\$140

Excellent quality permanent magnet speakers at very low prices. Actually cost less than the price of a re-coning job. Designed for universal replacement use—also recommended for installation in original equipment. They're real money savers for radio and TV servicemen, amateurs and "do-it-yourself" fans. Ideal replacements for speakers in home radio receivers, auto radios, portables, phonographs and intercommunication equipment. Provide full tonal response for very smooth reproduction of voice and music. Built to RETMA standard dimensions—rugged construction throughout. Rigid frame construction assures permanent alignment of integral parts. Magnet and voice coil are precision centered. 4" and 5" speakers have four holes in pot for easy mounting; furnished with universal mounting bracket. Fully dustproofed. Impedance, 3.2 ohms. *Extended-range type for wider response.

Stock No.	Fig.	Size	Magnet Weight	Max. Watts	Wt., Lbs.	NET EACH	
						1 to 5	6 or More
81 D 616	C	4" sq.	.68 oz.	3.0	1/2	1.40	1.26
81 D 617	B	5"	.68 oz.	3.5	3/4	1.70	1.53
81 D 536	D	5x7"	1.0 oz.	5.0	1	2.03	1.83
81 D 534	D	6x9"	1.47 oz.	8.0	1 1/4	2.75	2.47
82 D 250*	D	6x9"	1.47 oz.	8.0	1 1/4	2.85	2.56
81 D 507	B	8"	2.15 oz.	9.0	1 1/2	2.85	2.56
81 DX 508	B	12"	3.16 oz.	10.0	3 3/4	4.56	4.10



knight Quality Phonograph Needles



EXACT REPLACEMENT NEEDLES

A wide selection of popular, finest quality replacement needles at lowest cost. All are precision made from carefully selected materials according to rigid Knight specifications. All have sapphire tips, except *osmium. Letters or numbers following the word "Series" in the listings cover all cartridges whose type numbers begin with these letters or numbers. Av. wt., 2 oz.

FOR ASTATIC CARTRIDGES

Stock No.	Type No.	Fig.	For Cartridge Numbers	Tip	NET
68 R 362	A-67	A	94-TB, 405, 406,	Std.	1.27
68 R 363	A-67LP	A	Series: 62, 64, 66, 68	MG	1.27
68 R 364	A-672	A	Series: 57-T	All	1.27
68 R 365	A-68	B	Series: 55-T, GCD, 409	Twin	1.89
68 R 366	A-71	B		Twin	1.89
68 R 367	A-70*	C	Series: 14L3, 15L3	Std.	.79
68 R 368	A-70LP*	C		MG	1.27
68 R 369	A-702*	C		All	.79
68 R 370	A-73	BB	LT-3D, LT-4, LT-4D, LT-4D1,	Std.	1.27
68 R 371	A-73LP	BB	LT-AG	MG	1.27
68 R 372	A-732	BB		All	1.27
68 R 373	A-74	D	Series: 402, 51, 53, 59, GC, MG	Std.	1.27
68 R 374	A-74LP	D		MG	1.27
68 R 375	A-742	D		All	1.27
68 R 376	A-75	E	10L3, 11L3, Series AC, ACD,	Std.	1.27
68 R 377	A-75LP	E	40, 41, 42, 90	MG	1.27
68 R 378	A-752	E		All	1.27
68 R 379	A-81	F	Series: CAC, CO, LOD, QT	Std.	1.27
68 R 380	A-81LP	F	36, 38, 44, 46, 48; 403J;	MG	1.27
68 R 381	A-812	F	Magnavox 560052	All	1.27
68 R 382	CRA-55LP	G	Series: 310, 312, 414, 420,		
			422, 424	MG	1.27
68 R 383	CRA-55	G	Series: 310,312,420,422,424	Std.	1.27

FOR RONETTE CARTRIDGES

Stock No.	Type No.	Fig.	For Cartridge Numbers	Tip	NET
68 R 383	CRA-55	G	Studio O, Studio P, RA-284,	Std.	1.27
68 R 382	CRA-55LP	G	TO-284 Series TO-222,	MG	1.27
			TO-400, 7447, DT-60, RA-395		
68 R 715	CRA-55	H	TX-88A	Std.	1.27
68 R 716	CRA-56LP	H		MG	1.27

FOR MAGNAVOX CARTRIDGES

Stock No.	Type No.	Fig.	For Cartridge Numbers	Tip	NET
68 R 388	M-50	J	560133, 560133-4,		
			560151-5, 560151-6, 560158-1	Twin	1.89

FOR SONOTONE CARTRIDGES

Stock No.	Type No.	Fig.	For Cartridge Numbers	Tip	NET
68 R 343	S-60LP	K	Series 3P	MG	1.76
68 R 344	S-61	L	Series 3T	Twin	2.35
68 R 345	S-63LP	K		MG	1.47
68 R 346	S-632	K	Series 1P	All	1.47
			Series 2T; 7T; W-9980;		
68 R 347	S-66	L	Magnavox 560161-1; RCA78748	Twin	2.06

FOR ELECTRO-VOICE CARTRIDGES

Stock No.	Type No.	Fig.	For Cartridge Numbers	Tip	NET
68 R 384	E-90	M	10, 12, 14, 30, 32, 33, 34, 36, 40, 42,	Std.	1.27
68 R 385	E-90LP	M	43, 44, 46, 80, 82, 84, 86, 96,	MG	1.27
68 R 386	E-902	M	Admiral 409A13-1	All	1.27
68 R 387	E-91	N	16TT, 22TT	Twin	1.89



QUALITY DIAMOND NEEDLES

LOWEST PRICES

Valuable diamond needles for greatest record production and best long-run economy. Retain their shape for up to 1000 playing hours! Diamonds listed fit same cartridges as sapphire equivalents listed in tables below. Any needle with sapphire tip can also be supplied with diamond tip. Shpg. wt., 2 oz.

Diamond Needle		Fig.	For	Equivalent in Table Below	NET EACH
Stock No.	Type No.				
68 R 733	A-67LPD	B	Astatic	A-67LP	4.95
68 R 700	A-68SD	D	Astatic	A-68	
68 R 734	A-74LPD	D	Astatic	A-74LP	
68 R 701	A-75LPD	E	Astatic	A-75LP	
68 R 702	A-81LPD	F	Astatic	A-81LP	
68 R 703	E-90LPD	M	E-V	E-90LP	4.95
68 R 704	M-50SD	J	Magnavox	M-50	
68 R 737	PH-13SD	AA	Philco	PH-13	
68 R 705	CRA-55LPD	GA	Ronette	CRA-55LP	
68 R 735	CRA-56LPD	H	Ronette	CRA-56LP	
68 R 706	JPS-30LPD	P	Shure	JPS-30LP	4.95
68 R 736	JPS-35SD	S	Shure	JPS-35	
68 R 707	JPS-36SD	S	Shure	JPS-36	
68 R 708	M-70LPD	X	RCA	M-70LP	
68 R 709	M-74LPD	Y	RCA	M-74LP	
68 R 710	S-60LPD	K	Sonotone	S-60LP	4.95
68 R 711	S-61SD	L	Sonotone	S-61	
68 R 712	S-66SD	L	Sonotone	S-66	
68 R 738	W-15D	CC	Web. Elec.	W-15	

HOW TO ORDER

Allied stocks exact replacement needles for any domestic or foreign-made cartridge. If you do not find a specific replacement listed, specify cartridge and/or needle number. Designate tip radius: standard, .003" for 78 rpm; microgroove, .001" for 33 1/3 and 45 rpm; all-purpose, .002" for all records; twin-tips are .003" and .001". Single and dual-tip needles are available. Prices: single sapphire, \$1.27; dual-sapphire, \$1.89; single diamond \$4.95; dual-diamond, \$9.95; Sapphire-diamond, \$4.95. Shpg. wt., 2 oz.

FOR SHURE CARTRIDGES

Stock No.	Type No.	Fig.	For Cartridge Numbers	Tip	NET
68 R 397	JPS-30	P	P30, P37, P57, P70, P71, P72, P7Z, P73, P76, P76V, P77, P79, P81, P81AD, P85, P88, 89, P94, PN30, PC41V, PC42; Philco 35-2671, Series W21, W22, W23, W26, W60, W61, W65, W65B, W66, W68, WC22; Admiral 409A11 and 409A13	Std.	1.27
68 R 398	JPS-30LP	P		MG	1.27
68 R 399	JPS-312	P		All	1.27
68 R 320	JPS-32	R	W31AR, W36B, WC24	Std.	1.27
68 R 321	JPS-32LP	R	WC31AR, WC33B, WC36B,	MG	1.27
68 R 322	JPS-322	R	PC9, PC10, PC11, PC40	All	1.27
68 R 739	JPS-34	T	PC42AD, W-72	Std.	1.27
68 R 740	JPS-34LP	T	Admiral 409B19-8,	MG	1.27
68 R 741	JPS-39	W	WC-6, PC-6, PC-7	Twin	1.27
68 R 323	JPS-35	S	PC2, PC-3, PC-4, PC-5, WC10	Twin	1.89
68 R 324	JPS-36	S	ML-44	Twin	2.54

FOR RCA CARTRIDGES

Stock No.	Type No.	Fig.	For Cartridge Numbers	Tip	NET
68 R 337	M-70	X	9890, 38598, 95550, 39851,	Std.	1.27
68 R 339	M-70LP	X	39919, 70332, 70338, 70339,	MG	1.27
			72551, 74067		
68 R 341	M-74	Y	74625, 75475, 75575,	Std.	1.27
68 R 342	M-74LP	Y	76318, 77779	MG	1.27

FOR PHILCO CARTRIDGES

Stock No.	Type No.	Fig.	For Cartridge Numbers	Tip	NET
68 R 389	M-60LP	Z	45-1609, 45-1612	MG	1.27
68 R 742	PH-13	AA	76-4649; 425-0009, 425-0014	Twin	1.89

FOR WEBSTER-ELECTRIC CARTRIDGES

Stock No.	Type No.	Fig.	For Cartridge Numbers	Tip	NET
68 R 333	W-14	CC	A1, A2, A3, A4, A5, A6, A7, A8,	Std.	1.27
68 R 334	W-15	CC	A10, A12, AB, AX (010)	MG	1.27
68 R 397	JPS-30	P	F10, F11, F11-1	Std.	1.27
68 R 398	JPS-30LP	P		MG	1.27

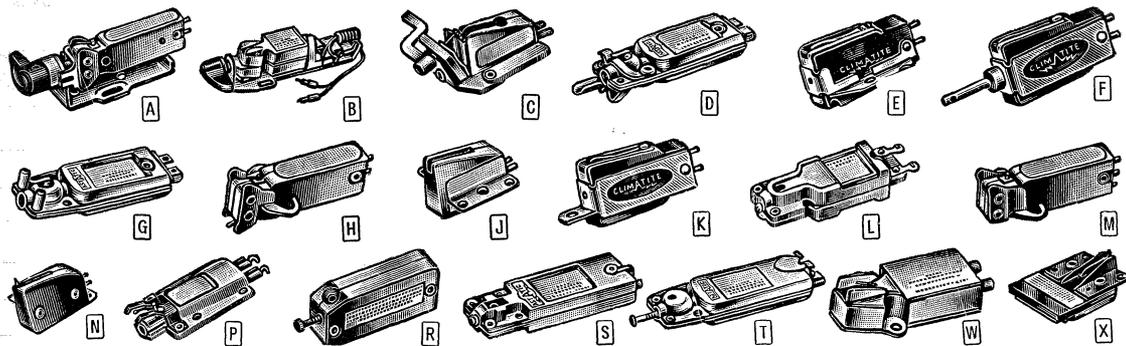
DD CONVENTIONAL SHANK PHONO NEEDLES

Designed to fit cartridges with screw-type chuck. Needles have "flat side" on shank for proper positioning. *Nylon needles—have flexible nylon material from tip to shank to reduce pickup of record scratch. Shpg. wt., 2 oz.

Stock No.	Type No.	Fig.	Tip material	Tip size	NET
68 R 391	NY-253*	DD	Sapphire	Standard	1.27
68 R 392	J-10	EE	Osmium	Standard	.59
68 R 393	NY-252*	EE	Sapphire	All-purpose	1.27
68 R 394	NY-152*	EE	Osmium	All-purpose	.79
68 R 395	J-152	FF	Osmium	All-purpose	.79
68 R 396	NY-251*	EE	Sapphire	Microgroove	1.27
68 R 743	J-252	FF	Sapphire	All-purpose	1.27

Astatic Replacement Cartridges

CRYSTAL AND CERAMIC CARTRIDGES



TURNOVER CARTRIDGES

High-quality dual-needle cartridges for 78, 45 and 33 $\frac{1}{3}$ rpm records. For direct replacement in most popular record players. Types 310-T through 424-TS are new Climatite types; crystals are specially treated to resist heat and humidity. All have sapphire needles; .001" tip for microgroove records and .003" tip for standard records. With bracket (standard 1/2" mounting centers) except **less bracket. *Ceramic type, others are Rochelle-salt crystal. Needle pressure, $\frac{1}{16}$ grams; $\frac{1}{8}$ grams; $\frac{1}{10}$ grams; #Sub-miniature. Av. shpg. wt., 4 oz.

Stock No.	Model No.	Fig.	Replaces Astatic Models	Output Volts	Response CPS	List	NET EACH
65 R 240	40-TB†	A	ACD-1 series, ACD-2 series, 11L3 CAC-D, 44T series	1.0	50-6000	\$ 8.45	4.97
65 R 216	44-TB§	B	57-TJ series	0.7	30-15,000	10.50	6.17
65 R 576	57-T*‡	C	LQD-1 series	0.7	50-7000	9.50	5.59
65 R 236	62-TY†	D	66-T(M)S, 68-TS LT-4D1, 14L3-DM, 15L3-DM, 66-T(M)Y, 68-T(M)Y	1.0	50-5000	7.95	4.67
65 R 013	66-TS‡	D	.....	3.0	50-5000	7.25	4.26
65 R 577	66-TY**†	D	.....	3.0	30-11,000	5.45	3.82
61 R 300	310-T**†	E	.....	3.0	30-11,000	5.45	3.20
61 R 301	310-TB†	F	.....	0.75	30-13,000	6.45	3.79
61 R 302	312-TB†	F	.....	3.0	30-11,000	5.45	3.20
61 R 303	420-TS**†	F	.....	0.75	30-13,000	5.95	3.50
61 R 304	422-TS**†	F	.....	3.0	30-11,000	6.50	3.82
61 R 305	424-TS**†	F	.....	0.6	50-5000	10.00	5.88
61 R 313	41-TB†	A	ACD-C-1 series, ACD-C-2 series AC series	0.7	30-15,000	7.95	4.67
61 R 314	55-T†	H	.....	0.75	30-13,000	6.45	3.79
61 R 310	118-TS#†	F	.....	3.0	30-11,000	6.45	3.79
61 R 311	120-TS#†	F	.....	3.0	30-11,000	6.45	3.79
61 R 312	124-TS#†	F	.....	3.0	30-11,000	6.45	3.79

ALL-GROOVE CARTRIDGES

Convenient single-needle cartridges play 78, 45 and 33 $\frac{1}{3}$ rpm records. All have .002" sapphire needle for both standard and microgroove records, except ††.002" osmium needle. †Less needle—have screw-type chuck for conventional needle. See page 362 for suitable type. All are designed for 1/2" mounting centers. Model 51-2 fits RCA 45-rpm changer arms. Model 310-2 is for new Astatic "B" arm; crystal is chemically treated to resist heat and moisture. *Has heat and humidity-resistant ceramic element; all others have Rochelle-salt crystal element. Needle pressure, 10 grams, except $\frac{1}{16}$ grams, $\frac{1}{8}$ grams, #12 grams, #12 grams. Av. shpg. wt., 4 oz.

Stock No.	Model	Fig.	Replaces Astatic	Volts	CPS	List	NET
65 R 559	16§	G	16L3, 17L3	3.5	50-5000	\$3.95	2.32
65 R 229	22§	G	L-29, L-92-33, 18L3	3.0	50-5000	3.95	2.32
61 R 316	28§	L	M-22, M-23	3.5	50-6500	3.95	2.32
65 R 242	40-2†	M	AC-AG series	1.0	50-10,000	6.50	3.82
65 R 571	51-2*†	J	GC-AG series	0.7	30-10,000	7.40	4.35
61 R 315	53-2†	N	S2-2-3 series	0.7	30-10,000	7.40	4.35
65 R 097	66-2††	G	LT-2M, LT-5AG, 68-2 14L-AGM, 15L3-AGM	3.0	50-5000	4.95	2.91
61 R 306	310-2†	K	.....	3.0	30-11,000	4.95	2.91

"SOUND-FLO" CARTRIDGE-NEEDLE COMBINATIONS

Astatic "Soundflo" cartridges. Utilize highly sensitive ceramic element to provide clear, wide-range audio reproduction. Movement is precision engineered for high compliance; permits accurate tracking of wide lateral groove variations. Assures excellent transient response and low distortion. Frequency response extends from 30 to 15,000 cps. Tracking force is 6 grams; assures long needle and record life. Cylindrical shaped housing accommodates "plug-in" replacement cartridge-needle combination. Greatly simplifies changing of styli. Flip-over mounting bracket allows quick change to proper stylus. .001" stylus for 45 and 33 $\frac{1}{3}$ rpm, long-play records and .003" stylus for 78 rpm standard records. "S" indicates sapphire tip; "D"—diamond tip. *Types 83-1 and 83-1X are direct replacements for RCA 105837. Av. shpg. wt., 4 oz.

Stock No.	Type	Description	Styli	Volts	List	NET EACH
61 R 308	81TB	Cartridge/styli & mtg. brkt.	S-.001", S-.003"	1.0	\$ 4.95	2.91
61 R 309	81T	Cartridge/styli	S-.001", S-.003"	1.0	3.95	2.32
61 RC 317	81TX	Cartridge/styli	D-.001", S-.003"	1.0	16.50	9.70
61 RC 318	81TBX	Cartridge/styli & mtg. brkt.	S-.001", S-.003"	1.0	17.00	10.00
61 R 319	*83-1	Cartridge/stylus	D-.001"	1.0	3.50	2.06
61 RC 320	*83-1X	Cartridge/stylus	D-.001"	1.0	16.00	9.41
61 R 321	89T	Cartridge/styli	S-.001", S-.003"	1.3	4.95	2.91
61 R 322	89TB	Cartridge/styli & mtg. brkt.	S-.001", S-.003"	1.3	5.95	3.50
61 RC 323	89TX	Cartridge/styli	D-.001", S-.003"	1.3	17.50	10.29
61 RC 324	89TBX	Cartridge/styli & mtg. brkt.	D-.001", S-.003"	1.3	18.00	10.58

MICROGROOVE CARTRIDGES

A wide selection of carefully-constructed microgroove cartridges for dependable performance and very clean reproduction in record changers and players. All are crystal type, except *ceramic type, unaffected by heat and humidity. With .001" sapphire needle for 45 and 33 $\frac{1}{3}$ rpm long-playing records.

Model 51-1 fits RCA 45-rpm changer arms. Model 44-1 equalized for Columbia 33 $\frac{1}{3}$ rpm records; has adapter for RCA 45-rpm changer arms. 40-1 fits most popular players. Model 62-1 used in RCA and V.M. Corp. players. Model 414-1, high output cartridge, used in RCA players. Has specially treated crystal to resist heat and moisture. See page 362 for listings of replacement needles of all types. Needle pressure, 10 grams, except $\frac{1}{8}$ grams, $\frac{1}{16}$ grams. Av. shpg. wt., 4 oz.

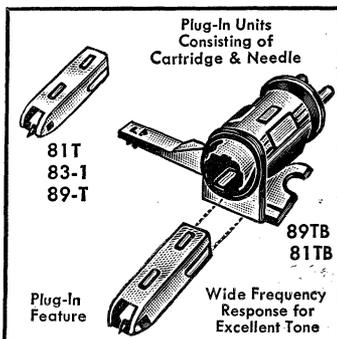
Stock No.	Model No.	Fig.	Replaces Astatic Models	Output Volts	Response CPS	List	NET EACH
65 R 241	40-1†	H	AC series	1.0	50-10,000	\$6.50	3.82
65 R 245	44-1	W	CAC, 441, QT-33, CQ series	1.0	30-15,000	7.50	4.41
65 R 234	51-1*	J	GC series	0.7	30-15,000	7.40	4.35
61 R 325	62-1	P	62-1-M	3.0	50-50,000	4.95	2.91
61 R 307	414-1†	E	.....	3.0	30-11,000	4.45	2.62

STANDARD-GROOVE CARTRIDGES

Popular Rochelle-salt crystal and ceramic cartridges, designed for use with 78-rpm changers and players. All are high-output crystal types, except *ceramic type—unaffected by heat or moisture—excellent for use in tropical climates. All models use .003" needles. †With osmium needle. All others are supplied less needle; have screw-type chuck for conventional needle. See page 362 for complete listing of quality needles.

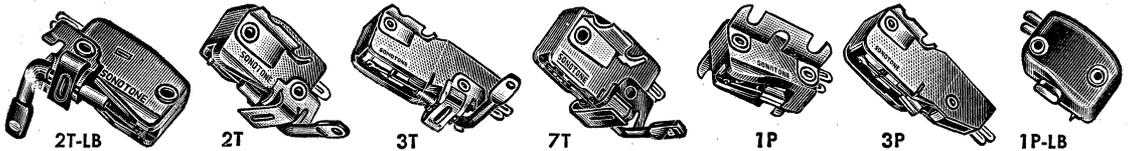
Model 12-U used in Admiral, RCA, and Webster phonographs; Model 2 used in Magnavox; 12 in Webster; 402 in Admiral. †Output with capacitor (supplied); delivers 4.0 volts when capacitor is not used. Needle pressure: Models 2 and 4—2 $\frac{1}{4}$ oz.; Models 6, 24 and 26—1 $\frac{1}{4}$ oz.; Models 12 and 12-U—1 oz. Model 32—1 $\frac{1}{2}$ oz.; and Model 402—12 grams. Av. shpg. wt., 4 oz.

Stock No.	Model No.	Fig.	Replaces Astatic Models	Output Volts	Response CPS	List	NET EACH
65 R 158	2	R	B-1, B-2, B-3, B-4	2.5	50-4000	\$9.00	5.29
65 R 156	4	S	L-22A, L-26A, L-27A	1.4	50-4500	4.45	2.62
65 R 153	6	S	L-40A, L-41A	0.6	50-4500	4.45	2.62
65 R 226	12	T	L-10, L-12	4.0	50-5000	4.45	2.62
65 R 227	12-U	T	L-12U	1.25†	50-5000	4.95	2.91
65 R 163	24	S	L-25A, series L-70, L-71, L-75, L-76	1.0	50-4000	4.95	2.91
65 R 165	26	S	L-46A, L-50A, L-72A	3.5	50-4000	4.95	2.91
65 R 231	32	S	L-24A, L-36A, L-82A, L-92, L-92A, 34	3.5	50-5000	4.95	2.91
65 R 149	402*§	X	402-M	0.7	50-10,000	6.90	4.06



Sonotone & RCA Cartridges—Pickups

SONOTONE CERAMIC PHONO CARTRIDGES



WIDE-RANGE CARTRIDGES

Deluxe Series "3" cartridges. Provide unusually clean, natural reproduction. Response: ± 1.5 db from 20 to 15,000 cps; gradual roll-off to 20,000 cps. Lack of resonant peaks and low distortion provide exceptional ease of listening. Highly compliant movement assures accurate tracking and low needle and record wear. Tracking force is only 6 grams. Cartridges are self-equalizing; match modern (RIAA, LP, NARTB, AES, etc.) recording curves without using external record compensators. Also, have sufficient output (0.5 v.) to require no pre-amp. Ceramic elements are unaffected by heat or moisture. Have standard $\frac{1}{2}$ " and $\frac{5}{8}$ " mounting centers to fit most phonos. 3P-1S and 3P-1D are single-needle types; 3T-S and 3T-SD are turnover-stylus types. "S" indicates sapphire tip; "D" indicates diamond. Shpg. wt., 3 oz.

Stock No.	Type	Styli	NET
65 R 857	3P-1S	S-.001"	6.17
65 RC 928	3P-1D	D-.001"	12.35
65 R 929	3T-S	S-.001", S-.003"	7.35
65 RC 948	3T-SD	D-.001", S-.003"	13.23

SINGLE-NEEDLE CARTRIDGES

For exact replacement in many popular phonos. Do not require preamplification or equalization. Ceramic construction provides protection against heat and moisture; also prevents pickup of annoying hum from nearby magnetic fields. Have high compliance for accurate tracking. Sapphire needles, except 1P-1D and 1P-LB-1D which have diamond needles; .001" microgroove; .002" all-purpose (microgroove and standard). 1P-1S, 1P-2S, and 1P-1D have bracket for $\frac{1}{2}$ " or $\frac{5}{8}$ " mtg. centers. 1P-LB-1S, 1P-LB-2S, and 1P-LB-1D less bracket for narrow pickup arms. Response, ± 3 db 30-15,000 cps. Output, 1 v. Needle pressure 8-10 grams. Shpg. wt., 3 oz.

Stock No.	Type	Styli	NET
65 R 615	1P-1S	.001"	4.41
65 R 523	1P-2S	.002"	4.41
61 RC 350	1P-1D	.001"	11.47
61 R 351	1P-LB-1S	.001"	4.41
65 R 843	1P-LB-2S	.002"	4.41
61 RC 352	1P-LB-1D	.001"	11.47

2T TURNOVER CARTRIDGES

Ceramic cartridges used as original equipment in many modern phonographs—improve sound quality when used in older players. Ceramic structure unaffected by humidity or temperature. Comparatively high cartridge output (1 v.) eliminates the need of preamplifier. Needle pressure is only 8-10 grams. High compliance of needle reduces record wear and resultant distortion. Response, ± 3 db 30-15,000 cps. Cartridges easily installed; require no cut-out for turnover mechanism. Models 2T-S and 2T-SD have bracket for $\frac{1}{2}$ " or $\frac{5}{8}$ " mtg. centers; 2T-LB-S and 2T-LB-SD less bracket for narrow pickup arms. "D" is diamond tip; "S", sapphire. Shpg. wt., 3 oz.

Stock No.	Type	Styli	NET
65 R 533	2T-S	S-.001", S-.003"	5.00
65 RC 844	2T-SD	D-.001", S-.003"	12.94
65 R 528	2T-LB-S	S-.001", S-.003"	5.00
61 RC 353	2T-LB-SD	D-.001", S-.003"	12.94

7T TURNOVER CARTRIDGES

New series of ceramic cartridges. Have unique fluid damping compound for high compliance and low distortion. Response, ± 2 db 20-12,000 cps. 0.6 v. output at needle pressure of 7-9 grams makes preamp unnecessary. Excellent for original equipment applications as well as for replacement purposes in players. Needle replacement simplified by ingenious turn-over design. Mounting brackets have elongated holes to permit use with any popular tone arm having mounting centers spaced $\frac{1}{8}$ " to $\frac{3}{8}$ " apart. 7T-LB types are ideal for use with unusually narrow tone arms. .001" tips are for microgroove (LP). .003" for standard 78's. "S" in stylus description means sapphire, "D" diamond. Shpg. wt., 3 oz.

Stock No.	Type	Styli	NET
61 R 355	7T-S	S-.001", S-.003"	5.29
61 RC 356	7T-SD	D-.001", S-.003"	13.23
61 RC 357	7T-D	D-.001", D-.003"	20.29
61 R 358	7T-LB-S	S-.001", S-.003"	5.29
61 RC 359	7T-LB-SD	D-.001", S-.003"	13.23
61 RC 360	7T-LB-D	D-.001", D-.003"	20.29

NEW STEREO CARTRIDGES

Series "8T" ceramic turnover cartridges. Provide excellent 2-channel sound reproduction. Response: 20-20,000 cps. 3 volt output. Needle pressure, 6 grams. Type 8T-4S has .0007" and .003" sapphire needles; 8T-4SD, .0007" diamond and .003" sapphire needles. Both have 4 terminals, two for each channel. Standard $\frac{1}{2}$ " mounting centers. Wt., 3 oz.
68 R 205, 8T-4S, List, \$14.50 NET. 8.53
68 RC 208, 8T-4SD, List, 24.50 NET 14.41

SONOTONE REPLACEMENT NEEDLES
S—Sapphire; D—Diamond. Interchangeable types: 7T-S, 7T-SD, 7T-D; 3P-1S, 3P-1D; 3T-S, 3T-SD; 2T-S, 2T-SD; 1P-1S, 1P-1D, 1P-2S. Shpg. wt., 2 oz.

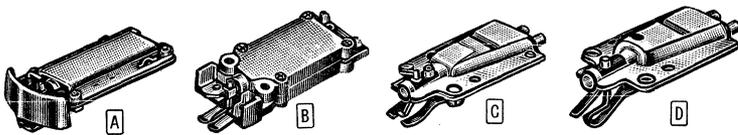
Stock No.	For	Tip	NET
68 R 319	1P-1S	S-.0017"	1.47
61 R 354	1P-1D	D-.001"	9.11
65 R 519	1P-2S	S-.002"	1.47
65 R 534	2T-S	S-.001", S-.003"	2.06
65 RC 529	2T-SD	D-.001", S-.003"	9.70
68 R 317	3P-1S	S-.0017"	1.76
68 RC 316	3P-1D	D-.001"	9.41
68 R 318	3T-S	S-.001", S-.003"	9.70
68 RC 315	3T-SD	D-.001", S-.003"	9.70
61 R 361	7T-S	S-.001", S-.003"	2.06
61 R 362	7T-SD	D-.001", S-.003"	9.70
61 RC 363	7T-D	D-.001", D-.003"	14.41
68 R 217	8T-S	S-.0007", S-.003"	2.06
68 R 209	8T-SD	D-.0007", S-.003"	9.70

POPULAR ASTATIC PICKUP



Model KR314-T. Lightweight, balanced pickup arm, complete with high output crystal, turnover cartridge. Ideal for replacement in manual record players. Turnover mechanism permits instant selection of .003" standard or .001" microgroove sapphire needles. Ivory finish. $8\frac{1}{2}$ " long. Wt., 1 lb.
61 R 326, NET..... 4.09

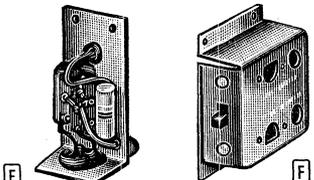
RCA PHONO COMPONENTS



REPLACEMENT CARTRIDGES

All are Rochelle-salt crystal type, except *heat and humidity-resistant ceramic element. All are supplied complete with needle. Needle types: †Sapphire standard, ‡sapphire microgroove, §osmium microgroove, ¶osmium standard and sapphire microgroove, †sapphire standard and microgroove. Av. shpg. wt., 5 oz.

Stock No.	Mfr's Type	Fig.	Used in RCA Models	List EACH	NET EACH
65 R 269	9890†	A	60U, 70V5, 0-50, R60, R93F, R100, R103S, QU56C, U8, U9, U10, VA21, V100, V101, V105, Radiola 560P 6J, 6M, 65AU, 62-1, 63E, 63EM, 63AU, 65AU1, 65U, 65U1, 67AV1, 67V1, 75ZU, 77V1, 77V2	\$8.58	5.05
65 R 270	70338-A†	B	9EY3, 9EY35, 9EY36, 9EYM3, 9Y1Y, 9YJM, 9YTW333, 9YTW390, 9YU101, 9YU102, 9YU103, 9YU105, 9Y7, 9Y51, 45EY, 45EY15, 45J, 45J2	7.25	4.26
65 R 253	74067††	D		6.40	3.76
65 R 254	75575††	D	2T81, 4T141, 6T84, 6T86, 7T132, 9T89, 9T147, 9Y510, A82, A101	6.40	3.76
65 R 917	75976†	A	58AV, 58V, 59AV1, 59V1, 66E, 610V1, 610V2, 641TV, 711V1, 711V2, 711V3, QU61, QU62, QU72, QU72A	7.50	4.41
65 R 215	76257§§	...	4513	6.50	3.82
65 R 255	77779§	C	2ES3, 2ES31, 2ES38, 2JS1, 257, 2S10, 2T81, 2US7, 3US5, 4T141, 6T84, 6T86, 6T87, 7T143, 9T89, 9T147, 15E, 21D346, 21D395, 21T242, 21T342	7.50	4.41
65 R 913	100653*†	...	4ES31Q, 4ES38Q, 4JS1Q, 6ES4Q, 6ES5, 6HF3, 6HF4, 6HF4Q, 6HF5, 6HF5Q, 6JS1Q, 6JS2Q, 7HF11, 7HF11Q	8.50	5.00



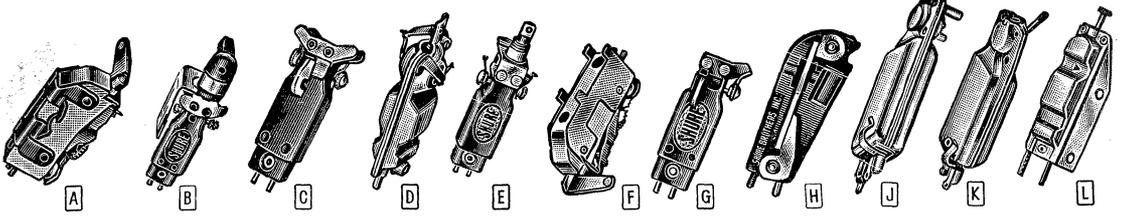
PHONO SWITCHES

E Type 240X1 Radio-Phono Switch. For operation of record players through radios that do not have a phono input. Slide switch permits instant change-over from radio to phonograph. Unit is connected between detector and first audio stage in radio. Panel has mounting holes for neat, back-of-the-cabinet installation. With shielded cable, phono plug and complete instructions. Shpg. wt., 6 oz.
69 R 505, List, \$2.50. NET..... 1.47

F Type 202W1 Record Player Selector Switch. For using either of two record players or changers with one radio or amplifier. Slide switch controls both audio output and motor power. Excellent for radio-phonograph combinations to which an external 45-rpm player has been added. Back-of-cabinet mounting. Complete with plugs and instructions. Shpg. wt., 6 oz.
69 R 506, List, \$5.65. NET..... 3.33

Replacement Phono Cartridges

SHURE REPLACEMENT CARTRIDGES



CRYSTAL CARTRIDGES

High-quality replacement cartridges for most record changers and players. All have sapphire .001" needle for LP and .003" needle for 78-rpm. W22T, W22 and W72 are turnover cartridges, W9 uses the newly designed "Twin Lever" needle shift system—flipping the needle lever puts proper needle into playing position—cartridge remains stationary. W9 and W72 are supplied with a "slip-on" capacitor which permits convenient reduction of output voltage to half of that shown. *W72 replaces Webster-Electric Type FX and Series F14, F15, F16, F18, F19, F20, and F21 cartridges. Av. shpg. wt., 4 oz.

Stock No.	Model No.	Fig.	Replaces Shure Models	Output Volts	Response, CPS	List	NET EACH
65 R 904	W9	A	Series P7, P8 & P9	3.5	50-10,000	\$9.50	5.59
65 R 338	W22T	B	P7E, P77, P78, PC2, /PC4, PC40, PC41	1.2	50-10,000	10.00	5.88
65 R 342	W22	C	Series P72, P76, P77, P79, W22AB	1.2	50-10,000	9.50	5.59
65 R 911	W72*	D		3.0	50-5000	8.50	5.00

CERAMIC CARTRIDGES

Excellent replacement cartridges. All except Type WC25 feature "Twin Lever" needle shift system—flipping the needle lever puts proper needle into playing position—cartridge remains stationary. WC25 is turnover type cartridge. Ideal cartridges for use in areas where temperature and humidity are high. Av. shpg. wt., 4 oz.

Stock No.	Model No.	Fig.	Replaces Shure Models	Output Volts	Response, CPS	List	NET EACH
68 R 725	WC6	A	Series PC6	0.5	30-15,000	\$14.50	8.53
68 R 726	WC6-TM	F	PC6SAM & PC6SEM	0.5	30-15,000	14.50	8.53
65 R 313	WC10	F	Series P71, P72	0.8	35-12,000	9.50	5.59
65 R 902	WC25	E	Series PC42	0.7	50-7000	9.50	5.59

ALL-GROOVE CARTRIDGES

Single-needle cartridges for playing both standard and microgroove records. All have .002" osmium needles, except Model W26 which has .002" sapphire needle. Needle pressure, 8-9 grams, except W26—4½ grams. Shpg. wt., 4 oz.

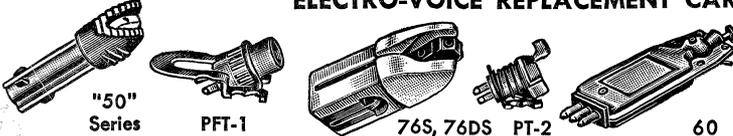
No.	Model	Fig.	Replaces Shure Models	Volts	CPS	List	NET
68 R 340	W26	G	W26A, W26B	0.9	50-8000	\$6.50	3.82
65 R 319	WC38	H	PC10, PC13, WC36B	2.0	50-10,000	7.50	4.41
65 R 348	W66B	J	Series P37	0.9	50-4500	7.00	4.12

STANDARD GROOVE CARTRIDGES

Ruggedly-built Rochelle-salt crystal cartridges. Model W78 can be used to increase the volume of many 78 rpm phonographs; supplied with "slip-on" capacitor which permits convenient reduction of output voltage to half of that shown. W68 and W78 are supplied with an extra weight-slug to permit increasing the needle pressure if necessary. All cartridges require 28.5 grams needle pressure, except Model W70 which requires 10-15 grams. W56N is used in Wilcox-Gay disc recorders; supplied with stellite .003" cutting needle and .003" osmium playback needle. Models W68 and W70 are equipped with osmium needles. *Less needle; uses conventional shank type (see page 362). W70 replaces Webster-Electric Type CX and the entire C series. Shpg. wt., 4 oz.

Stock No.	Model No.	Fig.	Replaces Shure Models	Output Volts	Response, CPS	List	NET EACH
65 R 349	W56N	K	P86R, W56R, W65R, Series P89	4.3	50-10,000	\$10.00	5.88
65 R 591	W68	J	PP30W, W65B, Series P30, W60, W61	1.6	50-4500	7.50	4.41
65 R 592	W70	L	(see above)	3.8	50-5000	4.95	2.91
65 R 590	W78*	K	Series P35, P87, P88, P90, P92, P93, W42, W56, W58, 99-180, 99-181	4.0	50-6000	5.55	3.26

ELECTRO-VOICE REPLACEMENT CARTRIDGES



POWER POINT TRANSDUCERS

- High Output, Low Tracking Force
- Less Needle Talk and Record Wear
- Ideal for High-Temperature Areas

Miniaturized ceramic cartridges. Equipped with two needle tips which are an integral part of the cartridge. Because of their small size and resulting low inertia, they have high compliance and give top quality tracking performance. Needle talk and record wear are minimized. Provide excellent response from 20 to 12,000 cps. Not affected by moisture or temperature. Ideal for use in hot, humid climates. Non-inductive—will not pick up hum from motors and stray fields. All, except 76S and 76DS, slip into the Electro-Voice holding mechanisms listed at right. 76S and 76DS replace power points in many Webcor changers. Needles of the same size are simply reversed when one need... wears. Mechanisms fit ½" and ¾" mounting centers. Requires only 5 to 8 grams tracking force. Output, 1 volt. Av. shpg. wt., 3 oz.

Stock No.	Mfrs Type	Styl	NET EACH	3-Up EACH
65 R 518	51-1	.001" sapphire	3.10	2.32
65 R 444	52-2	.001" sapphire .002" sapphire .002" sapphire	3.10	2.32
65 R 448	53-3	.003 sapphire .003" sapphire .001" sapphire .003" sapphire	3.10	2.32
65 R 509	56	.001" sapphire .003" sapphire	12.94	9.70
65 RC 464	56DS	.001" diamond .003" sapphire	12.94	9.70
65 R 598	76S	.001" sapphire .003" sapphire	3.32	2.50
65 RC 599	76DS	.001" diamond .003" sapphire	12.94	9.70

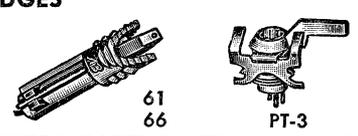
MODEL 60 DUO-VOLT CARTRIDGE

Versatile crystal cartridge permits easy selection of either high or low output voltage. High output makes it an ideal replacement cartridge for use with 1-tube or 2-tube low-amplification phonographs. May substantially improve reproduction. On LP records, simply connect leads to the two outer terminals for 4 volts output; or to center terminal and one outer terminal for 2 volts. Provides 6 volts or 3 volts on standard groove. ½" mounting hole center. Less standard shank needle. Shpg. wt., 3 oz. **65 R 422. List, \$4.95. NET.....2.91**

HOLDING MECHANISMS

Model PFT-1. Fixed Type. Designed for use with E-V Power Point models 51-1, 52-2, and 53-3. Can be used with model 56. ½ oz. **65 R 612. NET EACH.....39c**
3 or More, EACH.....29c

Model PT-2. Turnunder Type. Designed for use with E-V Power Point model 56. Can be used with 51-1, 52-2, 53-3. ½ oz. **65 R 614. NET EACH.....78c**
3 or More, EACH.....59c



STEREO "POWER POINT" CARTRIDGES

- For Stereo and Monaural Playback
- Excellent Reproduction Quality
- Delivers High Output Voltage

Ceramic cartridge for playing both stereo and monaural records. High compliance and light tracking force minimizes needle talk and record wear. Delivers high output voltage. Not affected by temperature or humidity. Response: 20-16,000 cps. Tracking force: 6 grams. Output: 0.5 volts. Size, ½" dia., ¾" long. S—Sapphire needle. D—Diamond needle. .0007" plays both stereo and monaural. .003" monaural only. Shpg. wt., 4 oz.

Stock No	Mfrs Type	Styl	NET EACH	3-Up, EACH
68 R 727	61	S-.0007", D-.0007"	4.66	3.50
68 RC 728	61DS	S-.0007", D-.0007"	15.29	11.47
68 R 729	66	S-.0007", S-.003"	4.66	3.50
68 RC 730	66DS	D-.0007", S-.003"	15.29	11.47

HOLDING MECHANISMS

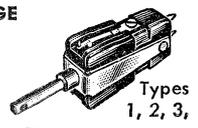
For above. Fit any arm. Shpg. wt., 2 oz

Stock No	Mfrs Type	Description	NET EACH	3-Up, EACH
68 R 731	PT-3	Turnunder	.78	.59
68 R 732	PFT-3	Fixed	.39	.29

JENSEN NU-LIFE REPLACEMENT CARTRIDGE

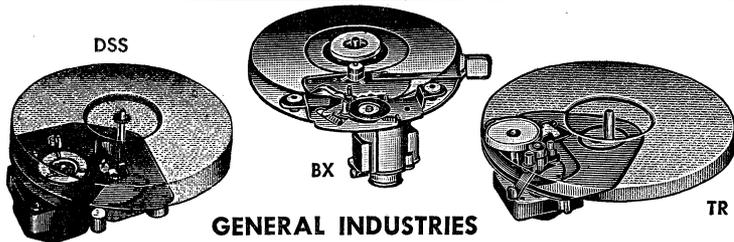
High-quality replacement turnover cartridges. Each has both .001" and .003" sapphire styli. Type 1: high output; replaces Ronette cartridge TO-222; delivers 1.8 v. output, LP; 3 v., 78-rpm. Type 2: low output; replaces Ronette cartridge TO-284-OV; delivers 0.5 v. output, LP; 0.9 v., 78-rpm. Type 3: medium output; replaces Ronette cartridge TO-400-OV; delivers 0.9 v., LP; 1.5 v., 78-rpm. Cartridges fit present Ronette holding or mounting mechanisms. Av. shpg. wt., 4 oz.

No.	Type	NET	No.	Type	NET
68 R 721	1	4.09	68 R 723	3	4.09
68 R 722	2	4.09			



Types 1, 2, 3,
For 78 and 33 1/3
Wide-Range Response
Clear Reproduction

Phono Accessories—Cartridges



GENERAL INDUSTRIES 3-SPEED PHONOGRAPH MOTORS

MODEL DSS. 3-speed phono motor with 10" turntable. Features 4-pole, shaded-pole motor. For high-fidelity phono systems. For use with all types of phono cartridges, including magnetic. Plays 33 $\frac{1}{3}$, 45, and 78 rpm records. Turntable is rim driven by idler wheel. Speed selector moves idler wheel to appropriate step on motor shaft for desired speed. Turning speed selector to "off" position automatically turns off motor and disengages the idler wheel from turntable. Other features include: Constant speed; oilless motor and turntable bearings; dynamically balanced rotor. Supplied complete with speed indicator dial. 10" turntable, 45-rpm record adapter, and "On-Off" switch. Size, less turntable: 4 $\frac{3}{8}$ x6 $\frac{1}{8}$ x6 $\frac{1}{16}$ ". Requires 2 $\frac{1}{2}$ " below mounting plate. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 6 $\frac{1}{2}$ lbs.
85 R 275. List, \$24.50. NET.....14.70

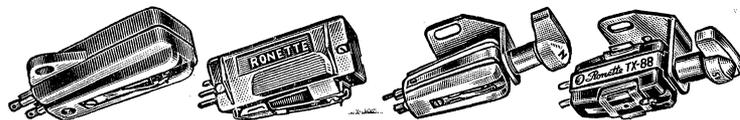
MODEL SS. (Not illus.) Phono motor with 8" turntable. Induction-type, 2-pole motor features oilless bearings and balanced rotor. Plays 33 $\frac{1}{3}$, 45 and 78 rpm records. Idler wheel is disengaged in "off" position. With speed indicator dial, turntable, and 45-rpm record adapter. Size, less turntable: 3 $\frac{1}{2}$ "x4 $\frac{1}{2}$ "x4 $\frac{3}{4}$ ". Requires 2 $\frac{1}{2}$ " below mounting plate. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 4 lbs.
85 R 276. List, \$10.95. NET.....6.57

MODEL TR. 3-speed phono motor with 9" turntable. Constant-speed, 2-pole motor provides quiet, dependable operation. Speeds of 33 $\frac{1}{3}$, 45, and 78 rpm from separate pulleys. With speed selector in "off" position, pulleys are disengaged from motor shaft. With speed indicator dial, 45-rpm record adapter, and 9" turntable. Size, less turntable: 3 $\frac{1}{2}$ "x5 $\frac{1}{2}$ "x5 $\frac{1}{4}$ ". Requires 1 $\frac{7}{8}$ " below mounting plate. For 110-120 volts, 60 cycle AC. Shpg. wt., 4 lbs.
96 R 367. List, \$12.45. NET.....7.47

BATTERY-OPERATED PHONO MOTORS. High-quality phono motors for portable use. Perform on 4 flashlight cells (below). Have 6" plastic turntable. Constant speed 2-pole motors are rubber grommet mounted for extra cushioning. Enclosed motors have self-lubricated bearings. Type BX has speed shift (lever can be located on either side of turntable) and neutral "off" position. Size, 6 $\frac{1}{2}$ "x4 $\frac{1}{2}$ "x2 $\frac{3}{4}$ ". Require 2" below mtg. surface. Shpg. wt., 1 lb.

No.	Type	Speeds	NET
85 R 203	BX	45, 33 $\frac{1}{3}$, 16 $\frac{2}{3}$ rpm	8.70
85 R 204	BX-45	45 rpm	7.65

TYPE 2 BURGESS BATTERY. For use with above (4 required). Wt., 6 oz.
53 J 009. NET EACH.....14c



RONETTE "FONOFLUID" PHONO CARTRIDGES

SINGLE-STYLUS CARTRIDGES

MODEL RA-284-OV. Single-stylus crystal cartridge. Replacement for most 45 and 33 $\frac{1}{3}$ rpm player cartridges. "Fonofluid" construction achieves smooth response from 50 to 11,000 cps. 0.7 volts output. Requires 4 to 6 grams needle pressure. Supplied complete with hardware and .001" sapphire stylus. $\frac{5}{8}$ " mtg. centers. Shpg. wt., 4 oz.
65 R 015. List, \$7.25. NET.....4.26

MODEL RA-395. High-output single-stylus crystal cartridge. As above, but for use with 1 or 2-tube amplifiers. Direct replacement for RCA-type cartridges in 45 and 33 $\frac{1}{3}$ rpm players. Response from 50 to 9000 cps. Output is 5 volts. Requires 4 to 10 grams tracking pressure. $\frac{5}{8}$ " mounting centers. Complete with hardware and .001" sapphire stylus. Shpg. wt., 4 oz.
65 R 079. List, \$7.25. NET.....4.26

MODEL BF-40 STEREOPHONIC. New, "binofluid" stereo crystal cartridge. Compatible with monaural records, it features high-compliance, dual-elements. Requires only 4 to 6 grams pressure for true tracking and clean reproduction. Full-channel separation of 24 to 28 db. RIAA equalized. Response, flat from 20 to beyond 15,000 cps. Output 0.30 volts per channel. With .0007" diamond stylus, universal mount. Wt., 2 oz.
68 R 207. List, \$31.00. NET.....18.23

MODEL BF-40 WITH SAPPHIRE STYLUS.
68 R 206. List, \$20.00. NET.....11.76

DUAL-STYLUS CARTRIDGES

MODEL TO-284-OV. Dual-stylus, turnover crystal cartridge with .001" and .0025" sapphire tips. "Fonofluid" construction assures excellent reproduction. Response, 50-11,000 cps. Stylus pressure 4-6 grams. 0.7 volt output. With hardware. $\frac{1}{2}$ " mtg. centers. Shpg. wt., 2 oz.
65 R 016. List, \$9.00. NET.....5.29

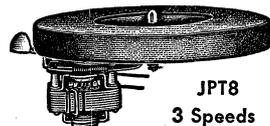
MODEL TO-400-OV. Dual-stylus turnover cartridge. As above, but front mtg. for automatic changers with narrow pickup arms using bar-type knob. 4 oz.
68 R 360. List, \$9.00. NET.....5.29

MODEL TO-222. Dual-stylus, turnover-type crystal cartridge with .001" and .0025" sapphire tips. Similar to TO-284-OV above but has 5 volt output. With $\frac{1}{2}$ " mtg. centers. Shpg. wt., 4 oz.
65 R 968. List, \$9.00. NET.....5.29

MODEL TX-88. New, "superfluid" turnover crystal cartridge. Offers extremely wide frequency response and high tracking accuracy. Requires 2 to 4 grams pressure for manual player pickup arms; 7 to 12 grams pressure for use in changers. Output, 0.4 volts. Response, 30 to 24,000 cps. Self-equalized for RIAA recording curve. Features two separate stylus assemblies: .001" sapphire for LP's and .0025" sapphire for 78-rpm records. Has $\frac{1}{2}$ " mounting centers. Shpg. wt., 3 oz.
68 R 361. List, \$12.50. NET.....7.35

Replacement needles for Ronette cartridges are on page 362

ALLIANCE PHONO MOTORS



MODEL JPT8. 3-speed phono motor with 8" turntable. Constant-speed, 2-pole motor. Plays 33 $\frac{1}{3}$, 45, and 78 rpm records. Speed selector moves idler to position for desired speed. Rubber shock-mounted motor. With 45-rpm record adapter. Mounts in 4 $\frac{3}{8}$ "x5 $\frac{1}{4}$ " cutout. Requires 2 $\frac{1}{2}$ " below base plate. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 3 $\frac{1}{2}$ lbs.
85 R 440. List, \$10.95. NET.....6.44

MODEL JPQ8. As above, but 4 speeds: 78, 45, 33 $\frac{1}{3}$, and 16 $\frac{2}{3}$ rpm.
85 R 442. List, \$13.50. NET.....7.94

MODEL DPT-0302 BATTERY-OPERATED PHONO MOTOR. (Not illus.) For battery-operated, portable phonographs. Operates at 16 $\frac{2}{3}$, 33 $\frac{1}{3}$ and 45-rpm speeds. Has 6" metal, gray-flocked turntable with speed shift lever. Requires 1 $\frac{3}{4}$ " below mounting surface. Operates on 6 volts—takes 4 Type 2 flashlight cells, below. 1 $\frac{1}{4}$ lbs.
85 R 205. List, \$15.00. NET.....8.84

TYPE 2 BURGESS BATTERY. For use with above (4 required). Shpg. wt., 6 oz.
53 J 009. NET EACH.....14c

WALSCO REPLACEMENT PARTS



The reference list below is arranged alphabetically by manufacturers. It lists model numbers of equipment and Walsco type numbers of replacement parts. To select parts, check the Walsco type numbers given for your equipment, against the descriptive list at bottom of page. When ordering give Allied's Stock No., Walsco type number, and description.

REFERENCE LIST

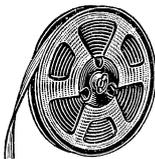
Mfr. and Models	Walsco Type No.
Admiral 150,160, 161, 161A, 200....	1432
Collaro RC54, 3RC531, 3RC532....	1449
Garrard RC80.....	1415 & 1444
G.E. P-6, P-14, P-15, P-16.....	1432
P-8, P-10, P-17.....	1437
P-14, P-15, P-16.....	1460, 1461 & 1462
P-17.....	1463, 1464 & 1465
P-15.....	1414 & 1415
Motorola VM3RC.....	1432, 1460, 1461 & 1462
VM4RC.....	1466, 1467 & 1468
W4RC.....	1437
Philco M-9C, M-12C.....	1432
M-12C, M-20, M-24A, M-26, M-28.....	1415
RCA RP-168, 190 Series.....	1447
15E, 15E-1.....	1432, 1460, 1461 & 1462
Silverstone 101,761-2, 101,761-3, 101,762-2, 101,762-3, 488,218.....	1432
488,219.....	1414 & 1432
488,218.....	1461 & 1462
VM 406, 407, 802, 910, 935, 936.....	1432
100A, 105, 406, 407, 802.....	1414
406, 407, 920, 990.....	1460, 1461 & 1462
920, 990.....	1452
Webcor 7, 18, 50, 56, 70, 78, 79, 80, 81, 100, 101, 106, 109, 110, 133, 146, 148, 156, 178, 180, 181, 246, 256, 288, 346, 356.....	1437
100, 101, 106, 109, 110, 346, 356.....	1463, 1464 & 1465

Stock No.	Type	Description	NET
43 N 401	1414	Belt, $\frac{5}{8}$ " I.D.	(Pr.), 17
43 N 402	1415	Belt, $\frac{1}{16}$ " I.D.	(Pr.), 15
43 N 406	1432	Idler, 2" O.D.	.59
43 N 408	1437	Idler, 2 $\frac{1}{2}$ " O.D.	1.03
43 N 432	1444	Inter-wh. 2" O.D.	1.47
43 N 433	1445	Inter-wh. 2" O.D.	1.47
43 N 412	1447	45rpm Wheel	.65
43 N 434	1449	Idler, 2 $\frac{1}{2}$ " O.D.	1.18
43 N 435	1452	Idler, 1 $\frac{1}{2}$ " O.D.	.59
43 N 415	1460	78 rpm Pulley	.76
43 N 414	1461	45 rpm Pulley	.68
43 N 415	1462	33 $\frac{1}{3}$ rpm Pulley	.68
43 N 416	1463	78 rpm Pulley	1.47
43 N 417	1464	45 rpm Pulley	1.47
43 N 418	1465	33 $\frac{1}{3}$ rpm Pulley	1.47
43 N 419	1466	78 rpm Pulley	.73
43 N 420	1467	45 rpm Pulley	.73
43 N 421	1468	33 $\frac{1}{3}$ rpm Pulley	.73

Selected Feature Values

NEW WALSCO "KLEEN-TAPE"

Tape recorder head cleaner. For fast, efficient cleaning of tape recorder heads without removing head cover at expense. Consists of a tough tape impregnated with special formula head cleaner. Simple to use—just put reel on recorder, thread tape through set, and let tape run through just as any other tape. Then rewind tape to 100-ft. plastic reel and job of cleaning and polishing heads is over. Insures clean, distortion-free recordings and play-backs. Long lasting—may be used again and again. Fits all tape recorders using standard size tapes. Shpg. wt., 4 oz. **43 N 356. List, \$2.95. NET.....1.73**



knight CRYSTAL MIKE

Attractive crystal mike for excellent performance at extremely low cost. Quality, shock-mounted crystal element provides response from 60 to 8500 cps. Balanced for either hand-held or table-top use without stand or bracket. Ideal for tape recording or amateur use. Output level: —45 db. Gray plastic case. Size: 2 1/8x2 1/8x1 1/8. 5-ft. cable. Shpg. wt., 1 lb. **99 S 519. NET.....2.95**



NEW SENCORE BATTERY TESTER

Model BT101. Battery tester. Tests all batteries under recommended loads—even small mercury cells, without damage. Load setting is determined from current capability instead of battery voltage. Rejects critical transistor batteries for internal resistance build-up before battery is low—a time-saver in finding cause of unstable operation in transistor circuits. All error is eliminated before testing battery by adjusting meter to a "no-load" line. Load is then connected by momentary switch. Meter reading will drop if battery is low or bad. Size (HWD), 5x4 1/2x2 1/2. Shpg. wt., 2 1/2 lbs. **83 F 982. NET.....15.63**



BUD WIRELESS PHONO OSCILLATOR

Model WO-6. Compact, easy-to-operate phono oscillator for use with any record player having a crystal phono cartridge. "Broadcasts" from record player to any number of standard AM radios up to 50 feet away. No interconnecting wires are needed between record player and radio. Just connect to cartridge. Any unused frequency from 1100-2150 kc can be used. Regulate tone, volume at radio. 4 1/2x2 1/2x2 1/4. For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 3 lbs. **60 R 336. NET.....11.81**



SPEAKER GRILLE CLOTH

Beautiful new patterns in high quality, durable cloth. Perfect for modernizing old cabinets and for construction of new custom enclosures. Acoustically perfect for enclosure use. Supplied neatly folded in plastic bags.



Size	Mahogany	Ivory	Shpg. Wt.	NET
12x12"	43 N 605	43 N 608	2 oz.	.47
13x24"	43 N 606	43 N 609	4 oz.	.79
36x36"	43 N 607	43 N 610	6 oz.	3.70

G-C Fabric Cement. Excellent for cementing grille cloth to cabinets, felt to turntables, etc. Dries quickly; does not become brittle. Will not penetrate, shrink or disfigure material. 2 oz. bottle. Shpg. wt., 8 oz. **43 N 123. NET.....4.4c**

FLOCK-COATED GRILLE SCREENING

Galvanized wire mesh, flocked on both sides. Soft, brown color. Durable and attractive. **86 N 060, 8x11". Wt., 4 oz. NET.....5.6c**
86 N X 061, 18x24". Wt., 12 oz. NET.....1.88

Values in Polaris TV Picture Tubes

TERRIFIC SAVINGS—ALL TYPES

Remarkable savings on popular TV picture tubes. All are high-quality tubes that will give bright, clear pictures. Guaranteed for one full year. Take advantage of these low prices and order now. Values like this just can't be beat. All have magnetic deflection and magnetic focus except Imagnetic deflection and electrostatic focus. *Aluminized screens. When ordering, give Dept. and Type No.—see page 442 for shipping instructions.

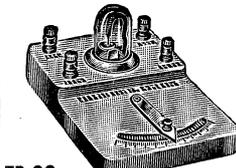
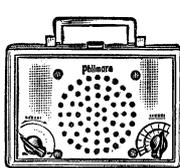
AS LOW AS
\$15¹⁰



1 Year
Guarantee

Stock No.		NET EACH	Stock No.		NET EACH
Dept.	Type		Dept.	Type	
AU6	12LP4A	15.10	AU6	20DP4A/CP4A	21.30
AU6	14EP4/CP4/BP4	16.05	AU6	20DP4C/CP4D*	24.80
AU6	16AP4A	22.40	AU6	21ACP4/AMP4	24.45
AU6	16DP4A	20.80	AU6	21ACP4A/AMP4A*	27.95
AU6	16GP4B	23.25	AU6	21ALP4A/ATP4A*†	29.35
AU6	16RP4/KP4	17.50	AU6	21AP4	31.30
AU6	16RP4A/KP4A*	21.00	AU6	21AVP4/AUP4†	25.90
AU6	16WP4A	25.95	AU6	21AVP4A/AUP4A*†	29.40
AU6	17AP4	19.75	AU6	21EP4A	22.60
AU6	17AVP4/ATP4†	21.30	AU6	21EP4B*	26.10
AU6	17AVP4A/ATP4A*†	24.80	AU6	21FP4†	23.85
AU6	17BP4A	19.75	AU6	21FP4C*†	27.35
AU6	17BP4B*	23.25	AU6	21MP4†	33.15
AU6	17CP4	25.80	AU6	21WP4*	25.90
AU6	17HP4/RP4†	21.40	AU6	21WP4A*	29.40
AU6	17HP4B/RP4C*†	24.90	AU6	21YP4†	26.25
AU6	17LP4/VP4†	20.40	AU6	21YP4A*†	29.75
AU6	17LP4A/VP4B*†	23.90	AU6	21ZP4A	24.65
AU6	17OP4	18.75	AU6	21ZP4B*	28.15
AU6	17OP4A*	22.25	AZ6	24CP4	41.10
AU6	17TP4†	28.10	AZ6	24CP4A*	45.60
AU6	19AP4†	27.15			

PHILMORE BUILDER KITS & CRYSTAL SETS



Model TR-22 Transistor Radio Kit. Popular loudspeaker type transistor radio kit. Provides excellent reception of broadcast band. Complete with case, transistors, diode, and all necessary parts and detailed instructions. Less battery (see below). Wt., 1 lb. **83 S 563. NET.....12.94**

Type VS300 RCA Battery. 9-volt battery for above. Shpg. wt., 4 oz. **80 J 961. NET.....1.35**

Model 7001 "Supertone" Crystal Set. Gives splendid results on local stations within a 25-mile radius. Uses smooth-action slider for tuning. Adjustable detector is enclosed in plastic for dust-free operation. Requires no batteries or tubes. Supplied less headphones and antenna. Shpg. wt., 12 oz. **83 S 003. NET.....1.45**

Model 7000 "Little Wonder" Radio Receiving Set. One of the smallest crystal sets made. Complete with attractive bakelite case. Less headphones and antenna. Wt., 6 oz. **83 S 015. NET.....1.13**

Model TR-101 Transistor Radio Kit. Low-cost transistor radio kit designed to cover the broadcast band. Includes sensitive germanium diode crystal detector and transistor audio amplifier stage. Handsome polystyrene cabinet measures 3 1/4x2 1/2x1 1/8". Kit includes 1000-ohm headphone and headband. Less battery (see below). Shpg. wt., 8 oz. **83 S 562. NET.....6.30**

Type Z Battery. For above. Wt., 3 oz. **53 J 031. NET......9c**
83 C 100. Antenna Kit. 1 lb. NET.....1.03

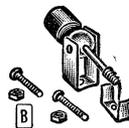
CRYSTAL SET ACCESSORIES

A Cat Whiskers. Tested spring steel. Tempered to give proper tension for best results. Shpg. wt., 2 oz. **52 S 011. PKG. of 3. NET.....12c**

B Detector Mount Kit. Complete kit of all parts needed for mounting any crystal. Consists of standard crystal holder, cat-whisker, and swivel arm. Arm is mounted on swivel joint for adjustment of cat-whisker to most sensitive spot on crystal. Less crystal (see right). Wt., 3 oz. **52 S 003. NET.....15c**

C Detector Mount Kit on Base. As above, but all parts mounted on base with Fahnestock clips—ready to use. Wt., 5 oz. **52 S 004. NET.....26c**

C Fixed Detector. Permanently adjusted, fixed crystal detector mounted in a compact, durable bakelite case. With mounting hardware. Shpg. wt., 3 oz. **52 S 001. NET.....71c**



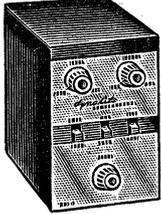
Meter-Tested Crystal. Highest-quality Galena crystal for dependable performance and sensitive reception in crystal receivers of all types. Tested under laboratory conditions using meter method. Has greater sensitivity than 52 S 005 below. Shpg. wt., 3 oz. **52 S 006. NET.....15c**

Economy Crystal. Highly sensitive, general-purpose crystal. Ideal for all types of crystal receivers. Genuine Galena crystal. Securely mounted in lead. Shpg. wt., 2 oz. **52 S 005. NET.....7c**



Selected Feature Values

DYNAKIT QUALITY HI-FI KITS



DSC-1

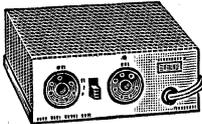
DSC-1 STEREO CONTROL KIT

Here's an advanced-design kit that provides flexible, centralized control of two preamplifiers in stereo operation. Introduces no noise or distortion, and only a negligible amount of signal attenuation. Requires no modification of the preamplifiers—connects between tape output jack on each preamplifier and input jack of its associated amplifier. Can also be used directly with two amplifiers.

Features include a blend control—continuously variable from pure stereo to pure monaural. "In between" positions feed a portion of channel A to amplifier B, and vice versa, to fill in the "hole in the middle." Volume control may be switched from the front panel to function as a loudness control. Channel reverse switch operates without unbalancing signal levels. Includes balance control and stereo tape A/B monitor facility. Supplied complete with cables. Size, 5 1/4 x 3 3/4 x 6". Shpg. wt., 2 lbs. 83 S 037. NET.....12.95

PS-1 PREAMP POWER SUPPLY KIT

Provides all power necessary for a pair of Dynakit amplifiers in stereo operation. Size, 2 1/2 x 5 3/4 x 6". Shpg. wt., 2 3/4 lbs. 83 S 038. NET.....8.95



PS-1

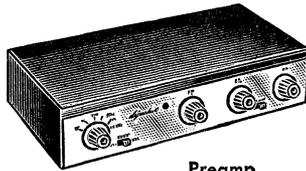
PREAMPLIFIER KIT

Unique-design, high-gain preamplifier. Maintains constant audio quality over entire volume range. Features complete feedback circuitry, with both current and voltage loops including all four stages of gain, a DC heater supply and a printed-circuit module. Can be used in pairs for outstanding stereo.

Response: ± 0.5 db, 6 to 60,000 cps. IM: 0.05% at 2-v. output. Inputs: High and low-level mag. phono, tuner, TV, tape and low-level input that may be wired as extra RIAA phono, tape head, or mike input. Phono Equalization: RIAA; 78, original LP. Gain: 54 db at 1 kc on RIAA input. Controls: Input selector equalization, bass, treble, volume, tape monitor switch, loudness compensation switch, hum balance. Tubes: 2—12AX7 (ECC-83), selenium rectifier stack.

Includes 4 convenience outlets. 2 3/4 x 12 x 6". Less power supply (takes power from Dynakit basic amplifier or PS-1 at left). Wt., 7 lbs. 83 S X 005. NET.....34.95

Panel Mounting Kit. Escutcheon plate and brackets for easy panel mounting of Dynakit preamp. No screws visible on panel. 1 lb. 83 S 039. NET.....2.95



Preamplifier



Mark III

MARK III BASIC AMPLIFIER KIT

Even a beginner can easily assemble this audio perfectionist's basic amplifier! Outstanding features include: choke filtering for absolute minimum noise; premium KT88 (or 6550) tubes supplied in matched pairs; printed circuit board with parts pre-mounted for trouble-free construction in less than 4 hours; "Biaset" feature for simple, accurate bias setting; no balancing or critical adjustments.

Output: Rated, 60 watts; peak, 120 watts. Response: $\pm 1/2$ db, from 6 to 60,000 cps. Distortion: IM, less than 1% at 60 watts—less than 1/2% at 50 watts—about .04% at average listening levels; Harmonic, less than 1%. ± 1 db, 20 to 20,000 cps at 60 watts. Noise: -90 db. Output Impedances: 4, 8 and 16 ohms. Tubes: 6AN8, 2—KT88 (or 6550); GZ34 and selenium rectifiers. Size, 6 3/4 x 9 x 9". For 110-120 v., 60 cycle AC. Shpg. wt., 28 lbs. 83 S 004. NET.....79.95

Mark II Basic Amplifier Kit. Similar to circuit of above, but has a 50-watt output rating; output impedances of 8 and 16 ohms; EL34/6CA7 output tubes and 5U4G rectifier. Size, 6 3/4 x 9 x 9". Shpg. wt., 27 lbs. 83 SU 799. NET.....69.75

MILLER HIGH-FIDELITY AM TUBELESS TUNER

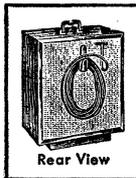
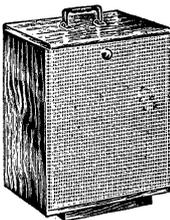


Model 565. Unique tubeless, high-fidelity AM tuner kit. Provides outstanding audio broadcast reception at unusually low cost.

Covers 550 to 1700 kc. Tuned radio frequency (TRF) type circuit offers a response limited only by the audio system used and the quality of the transmitted signal. Tuner is fundamentally a germanium diode detector employing two tuned circuits. Negative mutual coupling between antenna and RF circuit assures exceptionally high efficiency. Audio output voltage of the tuner is directly proportional to the input signal—ranges from .07 to .7 volts on stations within a 25-mile radius, depending upon the signal strength. Output circuit is equipped with a volume level control. Size of ebony bakelite cabinet is 4 x 3 1/2 x 7". Shpg. wt., 2 lbs. 98 S 525. NET.....14.70

Model 595. Same as above, but factory-wired and tested. Shpg. wt., 2 lbs. 98 S 529. NET.....19.50

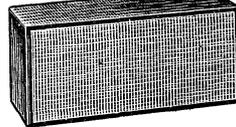
ARGOS PORTABLE EXTENSION SPEAKER SYSTEM



Rear View

Bring thrilling hi-fi to any room in your house with this moderately priced, portable speaker system. It's pre-wired and ready to use. Includes the Argos AD-1 bass reflex enclosure with a 12" full-range, twin-cone speaker installed. Has built-in L-pad for adjusting speaker volume. Enclosure is constructed of 1/2" 5-ply wood with mahogany grained leatherette covering. Uniform frequency response, from 55 to 12,000 cps. Power handling capacity, 15 watts. Impedance, 8 ohms. Includes 50-ft. cable. Size, 22 3/4 x 19 1/2 x 13 1/2". Shpg. wt., 35 lbs. 72 DU 599. NET.....34.95

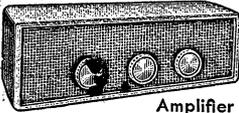
NEW ARGOS TSE-1 ENCLOSURE



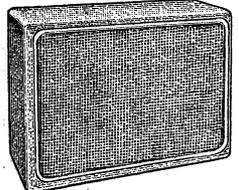
Top-value enclosure with "Forward-Front" styling—grille section projects forward instead of being recessed. Employs long, low design with a ducted port for exceptional bass response with extremely compact size. Finished on four sides to permit either shelf or floor placement. Accommodates 8" full-range speaker or 2-way system. Surface is wood-grained leatherette. 11 x 24 x 10 1/2". Shpg. wt., 17 lbs. 79 DU 206. Mahogany. EACH.....16.17

Argos TSE-1/KN-808. Above enclosure with British-made Knight KN-808 wide-range speaker installed. (See page 56 for description of speaker.) Provides superior, distortion-free reproduction—ideal for stereo. Response: 40 to 12,000 cps. Power handling capacity: 15 watts program material, 30-watt peaks. Shpg. wt. 20 lbs. Save \$3.00. 79 DU 208. Mahogany. NET.....23.12

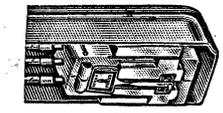
NEW WALCO WC-100 STEREO CONVERSION KIT



Amplifier



Speaker & Enclosure



Stereo Cartridge

- Convert To Stereo With Ease
- Hum-Free Performance

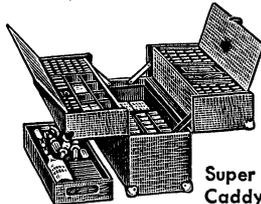
Enjoy breathtaking stereophonic sound with your present phonograph or phono console. Don't let your system become obsolete—convert to stereo with this Walco conversion kit. Permits you to play stereo records—makes monaural records sound better than ever.

Includes stereo cartridge with .0007" diamond needle, four-watt, five-tube, hum-free amplifier, and 6" full-range speaker with enclosure. Cartridge is installed in present pickup arm and connected to preamp section of the Walco amplifier. 0.2 volt cartridge signal is boosted to 5 volts—one channel is then fed to present phono amplifier and speaker, other channel continues through Walco amplifier to Walco speaker for thrilling stereo.

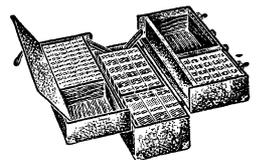
Size: amplifier, 5 1/2 x 14 1/4 x 5 3/4"; speaker, 10 x 12 1/2 x 5 1/2". Shpg. wt., 9 lbs. 68 RX 744. Mahogany. 68 RX 745. Blonde. NET EACH.....47.95

WC-100 Less Speaker. As above, but less speaker and enclosure. 4 1/2 lbs. 68 RX 746. Mahogany. 68 RX 747. Blonde. NET EACH.....41.95

ARGOS TELEVISION TUBE CADDIES



Super Caddy



Carry Caddy

Super Tube Caddy. New, ruggedly built, double-door type tube caddy for quick accessibility to tubes and tools. Carries up to 325 tubes—one of the largest tube caddies available! Extra space accommodates meters, tools, probes, etc. Removable tool tray. "Egg crate" design for smaller tubes and parts. Styled in gray tweed leatherette. Size (HWD), 16 1/2 x 24 x 8 1/2". Shpg. wt. 16 1/2 lbs. 84 X 153. List, \$36.60. NET.....21.51

Carry Caddy. An exceptionally versatile tube caddy. Carries up to 262 tubes, also space for soldering gun, meter, etc. "Break away" design—opens outward from center. Handsome, gray-tweed leatherette. Size, 8 x 15 x 21". Shpg. wt., 13 lbs. 86 X 129. List, \$26.50. NET.....15.63

Jr. Tube Caddy. Smaller version of Super Tube Caddy (above). Easy-to-carry size for quick trips. Carries up to 143 tubes with room for meter, tools, etc. Size, 15 3/4 x 12 1/2 x 8". Shpg. wt., 10 lbs. 86 X 155. List, \$17.50. NET.....10.29

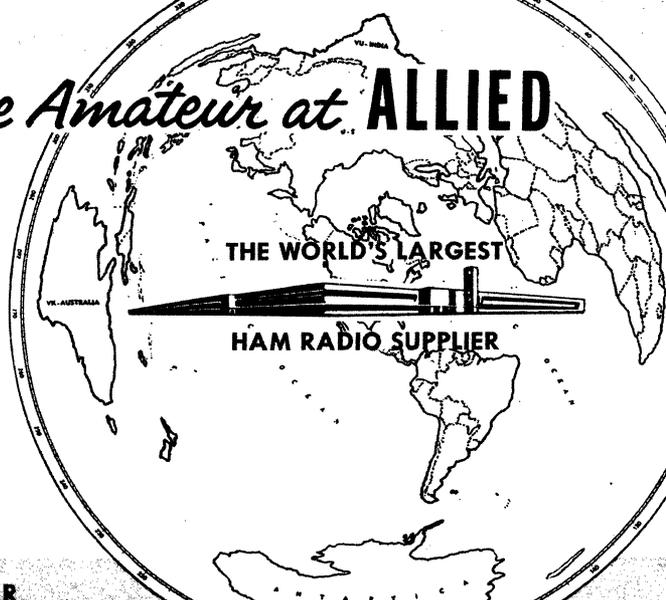
There's More for the Amateur at ALLIED

37 Years of Ham-to-Ham Service

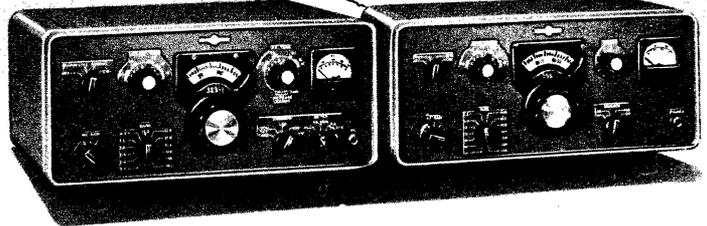
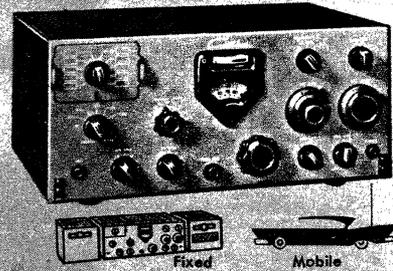
GIANT TRADE-INS. Now's the time to trade in your old gear and bring your station up to date. Write today—describe your trade-in—you'll get a terrific deal from Allied.

EASY PAYMENTS. Buy from Allied without straining your budget—only 10% down—no red tape and no finance companies to deal with.

15-DAY TRIAL. Order equipment from Allied and try it under your own conditions. If in 15 days you're not completely satisfied, return it and we will refund the full purchase price, less only transportation costs.



Collins DELUXE AMATEUR GEAR



A Complete New SSB Station

COLLINS KWM-1 TRANSCEIVER

Compact, top-performing 3-band transceiver—designed for mobile or fixed operation. Input power is 175 watts PEP on SSB, 160 watts CW. Covers any ten 100-kc bands from 14-30 mc—ten heterodyne crystals supplied cover nine ranges on 20, 15, and 10-11 meters, and one range that includes WWV. Commonly-tuned circuits in receiver and transmitter sections eliminate need for "zeroing in"—transmitting and receiving frequencies are always the same. Features include: dual-conversion receiver, permeability-tuned VFO (stable within 100 cps), 100-kc calibrator, mechanical filter for transmitting (SSB) and receiving, voice control, break-in keying, side-tone CW monitor. Carrier and sideband suppression is 50 db. Has antenna changeover relay and 500-ohm phone-patch output. Antenna input/output, 50 ohms unbalanced. Less speaker, power supply (use either the 516F-1 listed below, or the 516E-1 at right). Size (HWD): 6¼x14x10". Shpg. wt., 22 lbs.

94 SU 877. NET. 820.00

312B-1 MATCHING SPEAKER. Size, 6¼x7½x10". Shpg. wt., 7 lbs.

94 SX 870. NET. 25.00

516F-1 POWER SUPPLY. Supplies all necessary voltages for operation of KWM-1. With cables. For 110-120 volts, 50-60 cycle AC. Size, 6¼x7½x10". Shpg. wt., 29 lbs.

94 SU 879. NET. 136.00

351D-1 MOBILE MOUNTING TRAY. For under-the-dash mounting of the KWM-1. Permits slide-in installation and slide-out removal. Cantilever arms fold out of the way after removal of the transceiver. Includes cables. Shpg. wt., 12 lbs.

94 SX 869. NET. 98.00

KWS-1 TRANSMITTER

Deluxe bandswitching transmitter with SSB, CW or AM output, 80 through 10 meters. 1 kw PEP on SSB, 1 kw CW. Has built-in VFO, etc. For 115 or 230 v., 50-60 cycle AC. Wt., 210 lbs.

98 SZ 774. NET. 2095.00

NEW COLLINS 32S-1 SSB TRANSMITTER

New ultra-compact SSB-CW transmitter. Input is a husky 175 watts PEP on SSB; 160 watts on CW. Expertly engineered, the 32S-1 offers exceptional operating convenience and superior all-around performance. It's the ideal companion for the 75S-1 receiver at right.

Outstanding features include: mechanical filter-type SSB generator, permeability-tuned VFO, upper or lower sideband operation, RF image feedback, 10 db audio compression (ALC) and VOX. 2—6146 final. Frequency control system consists of VFO functioning with crystal-oscillator that accommodates 13 heterodyne crystals—this permits coverage of any 13—200-kc ranges from 3.4-30 mc. 11 crystals supplied provide complete coverage of 80, 40, 20 and 15 meters, and 28.5-28.7 mc. (Note that there are 2 open crystal positions that can be used to cover 2 more ranges on 10-11 meters.)

Overall frequency stability after warm-up is within 100 cps. Provides, 10 db audio compression and 50 db suppression of carrier, unwanted sideband, and oscillator feed-through and mixer products. Has 600-ohm phone-patch input. Output impedance is 50 ohms. 6¼x14½x11½". Less power supply (below). Shpg. wt., 17 lbs.

94 SU 865. NET. 590.00

516F-2 POWER SUPPLY. Supplies all necessary voltages for operation of 32S-1. With cables. For 110-120 volts, 50-60 cycle AC. Size, 6¼x7½x10". Shpg. wt., 27 lbs.

94 SU 866. NET. 105.00

516E-1 POWER SUPPLY. For mobile or portable operation of the 32S-1 and 75S-1, or the KWM-1 at left. Designed for 12 VDC input. Utilizes 6 power transistors as switching elements at 600 cps, eliminating vibrators and rotating machinery. Provides superior efficiency and minimum maintenance. With cables. Size, 4½x5x9". Shpg. wt., 18 lbs.

94 SU 878. NET. 262.00

NEW COLLINS 75S-1 SSB RECEIVER

New, advanced-design receiver for SSB, AM and CW. Time-tested Collins features are incorporated to give superior performance throughout its entire operating range. Employs a minimum of highly functional controls for quick, clean operation. May be used alone, or with the 32S-1 transmitter (at left) to make a compact, efficient station. Receiver VFO can be used to control both units for transceiver operation.

Tuning system consists of VFO functioning with crystal oscillator that accommodates 14 heterodyne crystals—this permits coverage of any 14—200-kc ranges from 3.4-30 mc. 12 crystals supplied provide complete coverage of 80, 40, 20 and 15 meters, WWV and 28.5-28.7 mc. (Note that there are 2 open crystal positions that can be used to cover 2 more ranges on 10-11 meters.)

Features dual conversion with crystal-controlled 1st beating oscillator, bandpass 1st IF, permeability-tuned VFO (stable within 100 cps), mechanical filter for high selectivity and sideband selection, 100-kc calibrator and product detector. Other important design characteristics include use of only 150 volts on tube plates and choice of 3 degrees of selectivity—2.1 or 0.5 kc with mechanical filter, or IF transformers for AM.

Signal-plus-noise-to-noise ratio is 10 db for 1 µV CW input. IF rejection is better than 70 db, image rejection is better than 60 db. Internal power supply may be disabled when using 75S-1 with 32S-1 transmitter and 516E-1 supply. Less speaker (below). 6¼x14½x11½". For 110-120 v., 50-60 cycle AC. Shpg. wt., 21 lbs.

92 SU 383. NET. 495.00

MATCHING SPEAKER. 7¾x10x8". Wt., 4 lbs.

92 SX 394. NET. 27.50

312B-4 SPEAKER CONSOLE. Integrates 32S-1 and 75S-1. Houses speaker, RF directional wattmeter, phone patch and function controls. 7¾x8x12¼". Wt., 10 lbs.

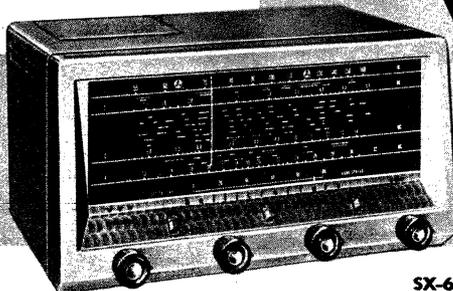
92 SU 395. NET. 185.00

Allied Is Trading High—Cash In By Ordering Your Collins Gear Now



HALLCRAFTERS
THE
RADIOMAN'S
RADIO

**GENERAL-COVERAGE RECEIVERS
FOR AMATEUR AND SWL**



SX-62A



S-38E



S-53A



S-85

LOW-COST S-38E RECEIVER

Latest version of the famous S-38 series of shortwave and broadcast receivers—completely restyled for improved operating ease and greater tuning accuracy. Redesigned cabinet offers recessed dial scale, relocated selector switches and convenient placement of control knobs. Offers sensitive coverage from 540 kc to 32 mc in 4 ranges. Tunes standard AM broadcast band and all short-wave frequencies up to 32 mc for police, aircraft, Amateur, foreign and domestic shortwave, and ship-to-shore transmissions. Has separate electrical bandsread dial with 0-100 scale.

Other features: built-in 5" PM speaker for excellent tonal quality; tip jacks for headphones to permit private listening; large, slide-rule type dial with 4 separate scales; latest, highly efficient superhet circuit employing 4 tubes plus power rectifier. Controls: Bandsread; Receive/Standby switch; On-Off-Volume; Band Selector; Tuning. Switch on rear panel for speaker or headphones. Gray steel cabinet with silver trim, 12 $\frac{1}{2}$ "x7 $\frac{1}{4}$ "x9 $\frac{1}{4}$ ". For 105-125 v. DC, or 50-60 cycle AC. (See 220 v. adapter cord below.) Shpg. wt., 14 lbs.

94 SX 814. NET **54.95**

S-38E in Furniture Finishes

The S-38E in metal cabinets with lustrous, simulated wood grain finishes.
91SX 995. S-38EM. Mahogany } NET
91SX 996. S-38EB. Blonde. } EA. **59.95**

220-VOLT ADAPTER CORD. Permits 220 v. AC-DC operation of S-38E receivers. 5 oz.
49 T 580. NET **1.32**

SX-62A ALL-WAVE RECEIVER

The SX-62A offers peak performance on AM broadcast, short wave and hi-fi FM. Precision built to meet the most exacting standards—incorporates every modern refinement in all-wave receiver engineering. Six ranges: 540-1620 kc; 1620 kc-4.9 mc; 4.9-15 mc; 15-32 mc; 27-56 mc (AM-FM); 54-109 mc (AM-FM). Beautifully styled.

HIGH-FIDELITY AUDIO. Push-pull 6V6 output furnishes 10 watts of audio power. Four-position tone control; phono jack.

FOR SWL'S AND DX FANS. Red dots identify proper settings of controls for AM and SW reception; green dots for FM. Wide-vision slide-rule dial; band in use is illuminated for quick identification. 60-to-1 ratio tuning knob. 500-kc calibrating crystal, with dial pointer for pin-point reset accuracy. Has BFO for reception of code signals. *Front Panel Controls:* Dial Pointer Reset; Band Selector; Receive/Standby; Calibration Crystal; Noise Limiter; Tuning; On-Off-Volume; Reception; Selectivity; Tone; Sensitivity; and Phone Jack.

MODERN CIRCUIT. Three IF and two RF stages provide maximum usable sensitivity. Crystal filter provides 6-step selectivity. Separate RF and AF gain controls; AVC; BFO; ANL; temperature-compensated, voltage-regulated oscillator. 300-ohm antenna input. 3.2, 8 and 500 ohm outputs. Employs 14 tubes plus regulator and rectifier. Includes external antenna.

Black steel cabinet with gray panel and silver trim. Size, 10 $\frac{1}{2}$ "x20x16". Less speaker. (See R-46B and R-47 matching speakers on page 371.) For 105-125 volts, 50-60 cycle AC. Shpg. wt., 66 lbs.
97 SZ 540. NET **375.00**

POPULAR S-53A RECEIVER

A highly sensitive and selective receiver at low cost. Covers: 6 Amateur bands, Police, Aircraft, Marine, Foreign and domestic shortwave broadcasts and standard broadcast programs. Has high signal-to-noise ratio. Built-in 5" PM speaker.

TUNES TO 54.5 MC. Range 1, 540-1630 kc; Range 2, 2.5-6.3 mc; Range 3, 6.3-16 mc; Range 4, 14-31 mc; Range 5, 48-54.5 mc. Provides excellent Amateur 6-meter reception on Range 5. Edge-illuminated slide-rule dial. Panel controls: Main Tuning, Bandsread, Bandswitch, Volume/Off-On, Sensitivity-Phono, Standby, Tone, Automatic Noise Limiter, and Phone-Code switch. Electrical bandsread control, with 0-100 logging scale plus mc calibration for 48-54.5 mc, simplifies tuning on crowded bands. Speaker-Headphone switch, headphone and phono jacks on rear panel.

MODERN SUPERHET CIRCUIT. Uses: 1—6C4 osc. (temperature-compensated for minimum drift), 1—6BA6 mixer, 2—6BA6 IF's, 1—6H6 detector-AVC-noise limiter, 1—6SC7 BFO-1st AF, 1—6K6GT output (2.5 watts). Rectifier is 5Y3GT, 5" PM speaker. Satin black steel cabinet with brushed chrome and silver trim; size of cabinet is 12 $\frac{1}{2}$ "x7 $\frac{1}{4}$ "x9 $\frac{1}{4}$ ". Has a piano-hinge top. For operation from 105-125 volts, 50-60 cycle AC. Shpg. wt., 20 lbs.
97 SU 573. NET **89.95**

FAMOUS S-85 RECEIVER

Popular S-85 communications receiver. Supersedes the renowned S-40 series. Completely restyled for improved operating ease and greater tuning accuracy. Puts worldwide communications at your finger tips. Tunes from 540 kc to 34 mc continuously in 4 ranges.

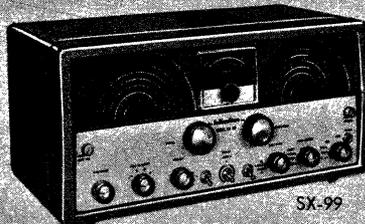
FEATURES: Bandsread dial calibrated for 80, 40, 20, 15, 11 and 10 meters; RF amplifier; 2—IF amplifiers; BFO with variable pitch control; automatic noise limiter; 3-position tone control; built-in 5" PM speaker; 4 tuning ranges—standard broadcast plus 3 shortwave. Temperature-compensated oscillator for stability.

TUBES USED: 6SG7 RF amplifier, 6SA7 converter, 2—6SK7 IF amplifiers, 6SC7 BFO and audio amplifier, 6K6GT audio output, 6H6 ANL-AVC-detector; rectifier is 5Y3GT.

FRONT PANEL CONTROLS: Sensitivity, band selector switch, volume, main tuning, bandsread, AVC on-off, noise limiter on-off, AM-CW, tone (high-medium-low) and AC on-off, pitch control, standby-recv. Panel jack for headphones. Steel cabinet finished in gray and black with silver and red trim. Piano-hinged top. Size, 8 $\frac{7}{8}$ "x18 $\frac{1}{2}$ "x10". For operation from 105-125 v., 50-60 cycle AC. Shpg. wt., 36 lbs.
98 SU 711. NET **119.95**

MODEL S-86. Same as S-85 in design and appearance, but for 105-125 v., DC or 50-60 cycle AC. Shpg. wt., 32 lbs.
98 SU 712. NET **119.95**

FOR AMATEUR AND SWL



SX-99

- Covers 540 kc to 34 mc
- Precision Construction
- Many Outstanding Features

TOP-VALUE SX-99 RECEIVER

An outstanding value in a medium-priced communications receiver. Offers features usually found only in high priced communications receivers. Crystal filter—Calibrated electrical bandsread—"S" meter.

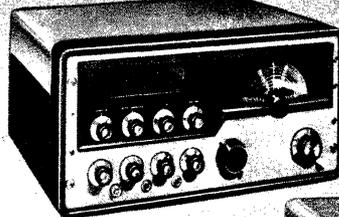
FREQUENCY COVERAGE. Full coverage of all frequencies from 540 kc to 34 mc in 4 ranges: the standard AM broadcast band plus 3 short-wave ranges. Provides reception of broadcasts from all over the world.

FEATURES: Bandsread dial calibrated for 80, 40, 20, 15, 11 and 10 meters—provides increased separation of stations; "S" meter calibrated in units of 6 db to S9 and in db above S9 for accurate signal reports; Crystal filter for razor-sharp selectivity; RF stage and two IF stages for very high sensitivity; Terminals for 3.2-ohm or 500-ohm speaker. Separate BFO with pitch control; automatic noise limiter and 3-position tone control. 7 tubes; plus rectifier. Steel cabinet in gray and black, chrome trim. 8 $\frac{1}{2}$ "x18 $\frac{3}{4}$ "x11". For 105-125 v., 50-60 cycle AC. Less speaker (see R-46B and R-47 on page 371.) Shpg. wt., 36 lbs.
98 SU 714. NET **149.95**

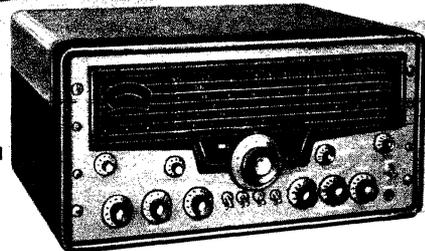
AN IDEAL SINGLE-SIDEBAND COMBINATION



New HT-33A



HT-32



SX-101



HALLCRAFTERS
THE
RADIOMAN'S
RADIO

NEW HT-33A LINEAR AMPLIFIER

The perfect companion to the HT-32—identical in size and styling. Provides the maximum legal input on SSB and CW—up to a full kw on AM linear. Employs a PL-172 high-efficiency pentode operating in Class AB₁ grid-driven across a non-inductive resistor for maximum stability. Offers everything needed for a clean signal with tremendous "punch"—extra-heavy-duty power supply, better cooling, etc.

FEATURES: 1-knob bandswitching 80 through 10 meters; 3rd and 5th order distortion products down in excess of 30 db; passive grid circuit—50 to 75-ohm input; built-in RF output meter for fast, easy tune-up; pi-network output; variable output loading, 30-80 ohms; metered circuits; built-in high-voltage circuit breaker; all leads and circuits RF-filtered for TVI suppression. **Front Panel Controls:** Meter Selector (Cathode, Grid, Screen, RF, Plate Volts); Filament Off-On; High-Voltage Off-On; Circuit Breaker; Bias Adjustment; Band Selector; Plate Tuning; Plate Load. **Rear Chassis:** Coax Input; Coax Output; Filament and Bias Fuse; Cut-Off Bias Relay Terminals. **Tubes:** PL-172 high-power pentode; 2—866AX rectifiers; 4—OA2 screen regulators. 10 $\frac{1}{2}$ x20x17". For 105-125 v., 50-60 cycle AC. Shpg. wt., 130 lbs.

92 SZ 348. NET.....795.00

HT-32 TRANSMITTER

High-efficiency transmitter-exciter for SSB-AM, or CW operation. Used alone, the HT-32, with 144 watts P.E.P. input, is an excellent, completely self-contained transmitter for the 80, 40, 20, 15, 11 and 10 meter Amateur bands. As an exciter, the HT-32 is ideal for use with the HT-33A power amplifier (at left), or any other similar unit.

FEATURES: Piezo-electric sideband filters; extremely stable bridged-tee modulator develops almost perfect sideband modulation; precision gear-driven VFO reads directly in kilocycles to within 300 cycles of reference point; distortion products down 30 db; carrier suppressed 50 db; unwanted sideband down 50 db; full voice control; clean, break-in keying; 52-ohm pi-network output for harmonic suppression. 15 tubes plus two parallel 6146's in final; 5K4GY HV rectifier; 5V4 LV rectifier; OA2 voltage regulator.

CONTROLS: Operation (Power Off, Standby, Mox, Cal, Vox); Audio Level; RF Level; Final Tuning; Function (Upper Sideband, Lower Sideband, DSB, CW); Meter Compression; Calibration Level; Driver Tuning; Band Selector; VFO. Steel cabinet in gray and black with chrome trim. Size, 10 $\frac{1}{2}$ x20x17". For 105-125 volts, 50-60 cycle AC. Shpg. wt., 86 lbs.

94 SZ 807. NET.....675.00

DELUXE SX-101 RECEIVER

The SX-101 is a super-deluxe communications receiver incorporating every essential for first-class coverage of the Amateur bands. It offers an extremely high degree of mechanical and electrical stability; overall performance is outstanding. A dual-conversion, selectable-sideband receiver, it has 1- μ v sensitivity on all bands and 5 steps of selectivity from 500 to 5000 cps. 7 bands cover: 1.8-2.0 mc; 3.5-4.0 mc; 7.0-7.3 mc; 14.0-14.4 mc; 21.0-21.5 mc; 26.95-27.35 and 28.0-29.7 mc—all Amateur bands from 160 through 10 meters. 10-mc position for zero-beating crystal calibrator with WWV.

DELUXE FEATURES: Crystal-controlled 2nd conversion oscillators; Tee-notch filter; gear drive tuning mechanism with 50:1 ratio; vernier dial-pointer adjustment; 100-kc crystal calibrator; individually illuminated band scales; dual-scale S-meter with zero point independent of sensitivity control—functions with AVC off or on; direct-coupled series noise limiter.

CONTROLS: Tuning; Pointer Reset; Antenna Trimmer; Tee-Notch Frequency; Tee-Notch Depth, Sensitivity; Band Selector; AC Off-On/Volume; Selectivity; BFO Pitch; Response (Upper or Lower-Sideband and Tone); AVC Off-On; BFO Off-On; ANL Off-On; Marker (crystal calibrator) Off-On; Standby-Receive.

Circuit employs 14 tubes plus voltage regulator and rectifier. Size of receiver is 10 $\frac{1}{2}$ x20x17". Less speaker; see R-46B and R-47 matching speakers listed at left. For operation from 105-125 volts, 50-60 cycle AC. Shpg. wt., 85 lbs.

94 SZ 802. NET.....395.00

MATCHING SPEAKERS FOR

MODEL R-46B 10" SPEAKER. For Hallcrafters SX-62A, SX-99, SX-100, SX-101 or other receivers having 3.2-ohm output. Silver-black steel cabinet, 15x10 $\frac{1}{2}$ x10 $\frac{1}{2}$ ". Employs heavy-duty construction throughout. With 5', 2-cond. cable. Shpg. wt., 15 lbs.

98 SX 758. NET.....17.95

SX-100 SELECTABLE SSB RECEIVER

The SX-100 communications receiver offers an array of outstanding features. In addition to selectable sideband operation and double conversion, it features adjustable 50.5 kc 2nd IF, with 4 hi-Q permeability tuned circuits for high selectivity. Covers 538 to 1530 kc and 1720 kc to 34 mc in 4 ranges. Also has 100-kc crystal calibrator, gear drive on main and band-spread tuning and crystal-controlled 2nd conversion oscillator. 12 tubes; 5Y3-GT rectifier and OA2 VR.

CONTROLS: Antenna Trimmer, Notch Frequency, Notch Depth, Calibrator Off-On, Sensitivity, Band Selector, Volume, Tuning, AVC Off-On, Noise Limiter Off-On, Bandspeed, Selectivity, Pitch, Receive Standby, Headphone Jack; 3.2 and 500-ohm output. Black cabinet with chrome trim. Size, 8 $\frac{1}{2}$ x18 $\frac{3}{4}$ x10 $\frac{3}{4}$ ". For 105-125 v., 50-60 cycle AC. Less speaker. (See R-46B, R-47 above.) Shpg. wt., 43 lbs.

98 SU 769. NET.....295.00

"S" METER KIT. For use with any receiver having RF or IF stages with AVC. 3" square; 2 $\frac{3}{4}$ " dia. barrel. Wt., 1 lb.

97 S 740. NET.....12.00

HALLCRAFTERS RECEIVERS

MODEL R-47 4" SPEAKER. Designed for speech and CW reproduction only—extremely effective on SSB. For use with Hallcrafters SX-99, SX-100 and SX-101. Input impedance is 3.2 ohms. Size of case, 5 $\frac{1}{2}$ x5 $\frac{1}{4}$ x3 $\frac{1}{2}$ ". Shpg. wt., 2 $\frac{1}{2}$ lbs.

92 S 392. NET.....12.95

NEW SR-34 TRANSMITTER/RECEIVER

Complete AM-CW 2 and 6-meter amateur station in one compact unit. Exceptionally stable and sensitive, it combines all the functions of both receiver and transmitter. Perfect for fixed, portable or mobile use.

FEATURES: Operates from either 115 v. AC, or 6 or 12-v. storage battery with efficient, dual-transistor power supply. Receiver is dual-conversion with crystal controlled 2nd oscillator; separate RF and oscillator sections for each band. Has "S" meter, BFO, ANL, squelch. Sensitivity averages under 1 μ v for 10 db S/N ratio on 2 and 6 meters. Transmitter is crystal controlled—up to 4 crystals may be switch-selected. May be used for "crossbanding"—transmitter may be tuned to 6 and receiver to 2, or the opposite. **Output:** 6-7 $\frac{1}{2}$ watts on 2 meters; 7-10 watts on 6 meters. Collapsible antenna; built-in speaker. 8 $\frac{1}{2}$ x14 $\frac{1}{4}$ x13 $\frac{3}{4}$ ". Less crystals and mike. Shpg. wt., 33 lbs.

92 SU 396. NET.....495.00

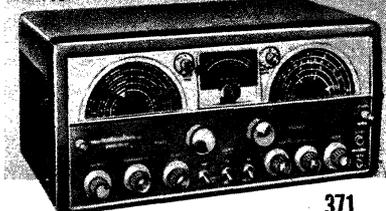
SR-34—AC ONLY. As above, but for 110-120 v. 50-60 cycle AC only.

92 SU 397. NET.....395.00



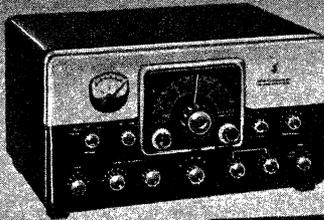
New SR-34 with
"Snap-On" Cover

SX-100



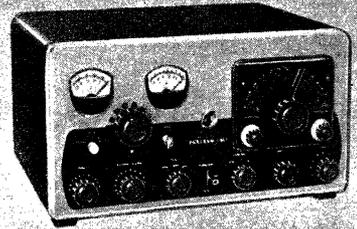


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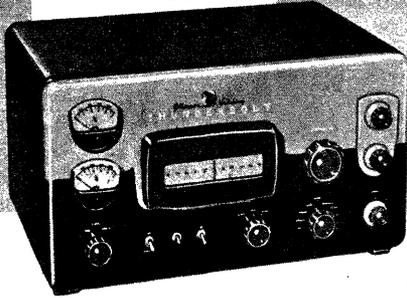


"Pacemaker"

FAMOUS *Viking*



"500"



2000 Watts P. E. P.

**VIKING "THUNDERBOLT" SSB
LINEAR AMPLIFIER**

MODEL 240-353-2. Compact, bandswitching linear amplifier—provides 2000 watts P. E. P. on SSB to smash through the QRM. Gives maximum "talk power" on all amateur bands, 3.5 to 30 mc. Has a full kw input on CW, 800 watts on AM linear. Completely self-contained—a highly efficient, flexible, table-top unit.

Drive requirements are 10 watts in class AB2 linear and 20 watts CW. Makes a perfect companion for any of the Viking low-power transmitters or other similar units. May also be used with medium-power transmitters such as the "Valiant" when power reducer (below, right) is inserted.

Features complete TVI suppression: All outgoing leads have complete shielding and double "L" section filters. Cabinet is electrically sealed with monel braid; cup-type shields seal the meters; all harness leads and filaments are by-passed.

Output circuit employs two 4-400A tetrodes in parallel, bridge neutralized. Pi-network matches 40 to 600-ohm loads. Two built-in fans cool filament and plate seals for extended tube life. Meters provide a constant check of every important phase of operation. Power supply section includes 4 VR tubes for screen voltage regulation. 1½x21x14¼". For 115 or 230 v., 50-60 cycle AC. Shpg. wt., 140 lbs.

94 SZ 863. NET.....589.50

MODEL 240-353-1. As above, but in kit form. 83 SZ 894. NET.....524.50



"Ranger"

**VIKING "PACEMAKER" SSB
TRANSMITTER**

MODEL 240-301-2. Completely self-contained AM-CW-SSB transmitter of 90 watts input—enough to pack a real on-the-air signal or to drive any amplifier. Band-switched, 80 through 10 meters, VFO controlled, with VFO always in the 3-4 mc range for maximum stability on all bands. Five crystals provide heterodyning frequencies to reach the desired bands. SSB is generated by phasing method, with upper sideband or lower sideband at the flick of a switch. Final amplifier is a 6146 with pi-network tank for loading flexibility and harmonic suppression. Break-in keying with excellent waveform makes for tops in CW operating. Meter on panel for grid and plate current, as well as modulation and carrier balance. Has adjustable voice-control and anti-trap circuits. Completely TVI suppressed. With crystals; less mike and key. For 110-120 volts, 50-60 cycle AC. 1½x21x14¼". Shpg. wt., 73 lbs.

94 SZ 850. NET.....495.00

VIKING "KILOWATT" AMPLIFIER

MODEL 240-1000. Superbly engineered 1000-watt power amplifier for SSB, AM or CW operation. Provides continuous coverage from 3.5 to 30 mc. Has pi-network output, effective TVI suppression. Two 4-400A's in RF amplifier, two 810 modulators. Mounted in pedestal, 29½x19¼x32¾". For 115 or 230 v., 50-60 cycle AC. Write for brochure. Shpg.wt., 500 lbs.

99 SZ 035. NET.....1595.00

MODEL 251-101. Matching desk top, back and 3-drawer pedestal. Specify right or left pedestal. Net F.O.B. Chicago or Cory, Pa., whichever is nearer. Allow 30 days for delivery. Shpg. wt., 155 lbs.

99 SZ 034. NET.....132.00

VIKING "COURIER" AMPLIFIER

MODEL 240-352-2. High-efficiency new linear amplifier—delivers a solid half-kilowatt P.E.P. SSB or CW, 200 watts AM linear. The perfect rig for operators who want higher power for the crowded amateur bands. Provides continuous, bandswitched coverage of 3.5 to 30 mc. Completely self-contained—everything is built into a single compact case.

Drive requirements are 5 to 35 watts, depending on mode and frequency of operation. Makes an ideal mate for low-power transmitters such as the Viking "Ranger", or may be used with medium-power units by inserting power reducer at right.

Features include: single control for tank coil and plate tuning capacitor, pi-network output to match 40-600 ohm loads, complete TVI suppression, special design for exceptional stability. Two 811A's in final. 9½x15½x14". For 110-120 v., 50-60 cycle AC. Shpg. wt., 68 lbs.

94 SZ 861. NET.....289.50

MODEL 240-352-1. As above, but in kit form. 83 SZ 893. NET.....244.50

VIKING "500" TRANSMITTER

MODEL 240-500-2. A flexible all-band rig for tops in amateur enjoyment. Perfect for SSB—500 watts P.E.P. with a 3-watt auxiliary SSB exciter. Has 500-watt AM input, 600-watt CW input. Transmitter is in two units—all controls are in RF section, receiver-size for convenience. Power supply and modulators are in second cabinet. All exciter stages gang-tuned to highly-stable VFO; safety and protective features include cabinet interlocks, voltage failure protection, fuses, time delay. Final amplifier operates into very efficient pi-L network for extreme harmonic suppression. Two meters provide complete monitoring of all transmitter functions. Audio system includes phone patch and low-level clipping. Complete filtering and shielding insure against TVI. Time-sequence keying for fast CW break-in. RF and audio tubes: 6AU6 VFO, 6CL6 buffer, 6CL6 multiplier, 5763 RF driver, 4-400A final, 807 clamper, 12AU7 keyer, 12AX7 speech amplifier, 6AL5 audio clipper, 6B4G audio driver, 2-811A modulators; plus 4 rectifiers and 6 voltage regulators. Size: RF unit, 11½x21x14¼". Power unit, 10½x20½x15¼". Less mike, key, crystals. For 115 or 230 v., 50-60 cycle AC. Wt., 200 lbs.

94 SZ 854-2. NET.....949.50

MODEL 240-500-1. As above, in kit form. 83 SZ 846. NET.....749.50

VIKING "RANGER" TRANSMITTER

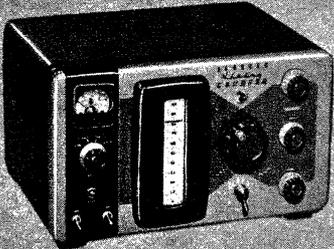
MODEL 240-161-2. The latest model of this popular, phone-CW transmitter. Highly effective TVI suppression. Input to final is 75 watts on CW; 65 watts on AM phone. Offers single-knob bandswitching on 160, 80-75, 40, 20, 15, and 11-10 meters. Frequency selection with built-in VFO, or crystals. Pi-network output matches 50-500 ohm loads; tunes out large amounts of reactance. Time-sequence (grid-block) keying provides excellent keying characteristic and allows quick, clean break-in operation. The built-in VFO is temperature-compensated for high stability. Separate, accurately calibrated, VFO bandspread scales for each band—9° of dial scale on 10 meters. A 6-to-1 planetary drive mechanism allows accurate tuning with velvet smooth control. 100% AM modulation; response limited to 250-3000 cycles for maximum communication effectiveness. Full meter switching for accurate tune-up. Tubes: 6AU6 VFO, 6CL6 crystal oscillator, 6CL6 buffer, 6146 final, 6AQ5 clamper, 12AU7 keyer, 12AX7 speech amplifier, 12AU7 audio driver, 2-1614 modulators; OA2 voltage regulator, 5R4GY high-voltage rectifier, 6AX5GT low-voltage rectifier and 6AL5 bias rectifier. Less crystal, key and mike. Size, 15x11½x9". For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 54 lbs.

99 SZ 036. NET.....329.50

MODEL 240-161-1. As above, in kit form. 99 SZ 037. NET.....229.50

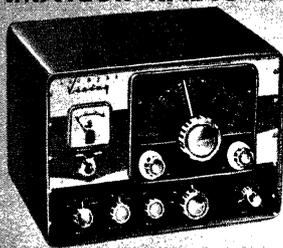
250-29 POWER REDUCER. Permits using medium-power transmitters to drive Viking amplifiers. 3½x2½". dia. 1 lb. 99 S 015. NET.....13.95

500 WATTS P. E. P.



- Completely Self-Contained
- Fully TVI Suppressed
- Extremely Efficient

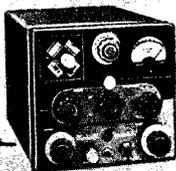
AMATEUR RADIO EQUIPMENT



"Navigator"



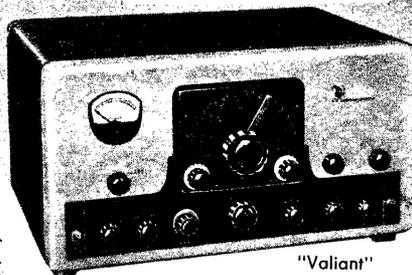
"6N2"



"Mobile"



JOHNSON
FOR FULL
COMMUNICATION
POWER



"Valiant"

VIKING "NAVIGATOR" TRANSMITTER

MODEL 240-126-2. High-performance transmitter-exciter for the amateur who desires a flexible, low-power CW rig. 40 watts input. Bandswitching coverage of the 160, 80, 40, 20, 15, 11 and 10 meter bands. Built-in, highly stable VFO has excellent keying characteristics; features timed-sequence keying for chirp-free, clean, crisp signals.

Transmitter may be crystal-controlled—has front-panel provision for 2 crystals. TVI suppression includes filtering and by-passing; aluminum cabinet effectively shields unit. Wide-range pi-network output circuit matches transmission line impedances from 40-600 ohms. Meter on front panel reads final grid and plate currents.

13 1/4 x 9 1/2 x 10 1/8". With tubes; less crystals and key. For 110-120 v., 50-60 cycle AC. Shpg. wt., 27 lbs.

94 SZ 857. NET. 199.50

MODEL 240-126-1. As above, but kit form.

83 SZ 892. NET. 149.50

IMPORTANT BONUS NOTE

Big savings are yours when you make Allied your headquarters for amateur equipment. Simply drop a card to Allied's Ham Shack listing the gear you want—our unbeatable Bonus Package Price will amaze you.

VIKING "6N2" TRANSMITTER

MODEL 240-201-2. Efficient, compact VHF transmitter offering bandswitching coverage of 6 and 2 meters. Makes use of the existing power supply and modulator of the amateur's low-frequency transmitter. Requires 6.3 v. at 3.5 amps, 300 v. DC at 70 ma and 300-750 v. DC at 200 ma, plus 30 or more watts of audio. Input power at full voltage: 150 watts CW or FM, 100 watts AM. Has silver-plated tank circuit, parallel lines for 2 meters, link output, 5894 final. TVI suppressed. For 8-mc. input. 13 1/4 x 8 3/4 x 8 1/2". Less crystal, key, mike. Shpg. wt., 14 lbs.

94 SU 851. NET. 169.50

MODEL 240-201-1. As above, but in kit form.

83 SU 844. NET. 129.50

VIKING "MOBILE" TRANSMITTER KIT

MODEL 240-141. Up to 60 watts input, 75 through 10 meters. Bandswitching; all stages ganged to one control. PA trimmer allows wide frequency shift without antenna loading coil adjustment. 52-ohm output. Requires 300-600 VDC at 200-240 ma and 6 or 12 v. for heaters. Less tubes, mike. 7 1/4 x 6 1/2 x 10 1/8". Wt., 16 lbs.

98 S 056. NET. 107.00

MOBILE VFO KIT. MODEL 240-152-1. For above. With tubes. 4x4 1/4 x 5". 4 lbs.

99 S 018. NET. 33.95

240-152-2 VFO. As above, but wired.

99 S 019. NET. 52.50

VIKING "VALIANT" TRANSMITTER

MODEL 240-104-2. A husky compact all-band transmitter—gives you top "watts per dollar" value. A full 275 watts input on CW. 200 watts on AM. Can be used with an auxiliary SSB exciter for 275 watts SSB power. Offers complete bandswitching from 160 through 10 meters.

Includes the famous Johnson features—high-stability VFO, timed-sequence keying, effective TVI suppression. In addition, audio clipping and filtering provide maximum "punch" through QRM. Very efficient pi-network matches 50-600 ohm loads; tunes out large amounts of reactance. VFO and modulator screens are voltage regulated for excellent stability.

Three 6146's in parallel are used in final; two 6146's used as modulators. Size, 11 1/2 x 21 x 14 1/4". Less crystal, key and mike. For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 85 lbs.

94 SZ 853. NET. 439.50

Wired model 240-104-2 above meets FCDA specifications for crystal-controlled operation.

MODEL 240-104-1. As above, but in kit form.

83 SZ 845. NET. 349.50

AMATEUR TRANSMITTER ACCESSORIES



"6N2" VFO



Mobile VFO



Amplifier Modulator

VIKING 6N2 VFO KIT

MODEL 240-133-1. Compact new 6 and 2-meter VFO kit. Replaces 8-9 mc crystals in multiplying 6 and 2 meter transmitters, including those using overtone oscillators. Double-bearing ceramic-insulated tuning capacitor, air trimmers, ceramic coil form and -heavy aluminum case minimize frequency shift due to vibration. 6BH6 series-tuned oscillator is temperature compensated and extremely stable. Has OA2 voltage regulator. Output frequency range is 7.995 to 9.010 mc. Accurately calibrated lucite dial is edge-lighted for easy reading—10:1 vernier tuning is provided. Requires 250-300 volts DC at 10 ma and 6.3 volts at 0.3 amp. Has only 2 controls; Bandswitch and Tuning. With cables and instructions. Maroon and gray case, 4x4 1/4 x 5". Wt., 3 lbs.

83 S 899. NET. 34.95

MODEL 240-133-2. As above, but wired.

83 S 869. NET. 54.95

VIKING VFO KIT

MODEL 240-122. Extremely stable VFO kit. Designed for Viking I and II, but performs excellently with any transmitter. For 160-10 meters; output on 160 and 40 meters, and 6 mc. OA2 VR. Requires 250-300 VDC at 15 ma, 6.3 v. at 0.3 amp. With cables. 7 x 6 1/2 x 6 1/8". 7 lbs.

99 S 013. NET. 45.50

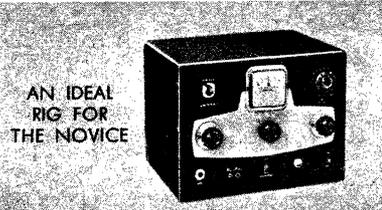
MODEL 240-122-2. As above, but wired.

99 SX 014. NET. 69.75

VIKING MODULATOR KIT

MODEL 250-40. Compact, speech amplifier/screen modulator kit. For phone operation of low-power CW transmitters such as the "Adventurer." Plugs into accessory socket. High gain for crystal or dynamic mike. 4 3/4 x 4 3/4 x 4". Less mike. 1 lb.

92 S 366. NET. 12.25



AN IDEAL RIG FOR THE NOVICE

"VIKING "ADVENTURER" TRANSMITTER KIT

MODEL 240-181. Here is the ideal rig for the novice, as well as the confirmed "brass pounders" who want a compact, low-power CW transmitter, 50 watts input to a type 807 final amplifier.

Features: bandswitching on 80, 40, 20, 15 and 11-10 meters; grid and plate metering; shielding and filtering for TVI suppression. Wide-range pi-network output permits using even the simplest antennas. Oscillator and final are keyed simultaneously for a crisp, clean signal. Receptacle allows use of built-in power supply (450 v. DC at 150 ma and 6.3 v. at 2 amps) for accessory equipment (VFO, monitor, etc.).

With easy instructions; less key and crystal. 7 3/4 x 10 1/2 x 8 1/4". For 110-120 v., 50-60 cycle AC. Shpg. wt., 16 lbs.

99 SU 024. NET. 54.95



NATIONAL

**TUNED
TO
TOMORROW**

POPULAR NATIONAL AMATEUR EQUIPMENT



NC-188



NC-66 With RDF-66 Direction Finder



NC-109

NATIONAL NC-109 RECEIVER

Top-value, general coverage receiver for SSB, AM or CW. Incorporates a host of deluxe features at moderate cost. Separate product detector and excellent stability assure outstanding SSB reception. Has the exclusive "Microtone" crystal filter, which provides five degrees of selectivity in addition to normal band-width for voice. Sharp phasing notch over 60 db deep effectively rejects interference.

Covers 540 kc to 40 mc in four bands. Calibrated electrical bandspread for amateur 10, 11, 15, 20, 40 and 80 meter bands. Indirectly illuminated lucite dial is designed for legibility; amateur and shortwave bands are clearly marked. "S" meter on front panel for signal strength indication and more accurate tuning. Gang-tuned RF amplifier stage, plus two IF and two AF stages. Stability is increased by separate HF oscillator tube; ceramic oscillator coil forms and temperature compensation further improve stability. Separate RF and AF gain controls. Has nine tubes, plus rectifier and voltage regulator. 1-2 microvolt sensitivity for 10 db signal-to-noise ratio.

Controls: Main tuning; bandspread tuning; antenna trimmer; band selector switch; RF gain control; AC Off-On and AF gain control; stand-by switch; mode selector switch (ANL, AM, CW, SSB and ACC); tone control; BFO pitch; selectivity; phasing. Size, 10x16 $\frac{1}{2}$ x10 $\frac{1}{8}$ " deep. Less speaker. For 110-120 volts, 50-60 cycle AC. Shpg. wt., 35 lbs.

94 SU 834. \$20.00 Down. NET...199.95

94 SX 835. NTS-1. Matching 8" speaker. Shpg. wt., 10 lbs. NET.....17.50

NATIONAL NC-188 RECEIVER

Low-cost, general-coverage receiver featuring advanced design and construction combined with streamlined, modern styling. Continuous coverage from 540 kc to 40 mc: SSB, AM, or CW. Calibrated bandspread for 10, 11, 15, 20, 40 and 80 meter amateur bands. Has high sensitivity, plus excellent stability and selectivity. An excellent receiver for amateurs and shortwave listeners.

Large, easy-to-read 11-inch slide-rule dial with combination edge and back lighting for precision tuning. Has gang-tuned RF amplifier stage for increased sensitivity and image rejection; temperature-compensated and ventilated high-frequency oscillator for increased stability. Also includes a series-type automatic noise limiter, accurately calibrated "S" meter for signal strength indication, two IF amplifiers, and separate front-panel antenna trimmer. Two-stage audio amplifier also provides 1.5 watts output at less than 10% distortion. Sensitivity is under 2.5 microvolts for a 10-to-1 signal-to-noise ratio. Selectivity: 6 db down for 5.2 kc, 60 db down for 22 kc.

Tube complement: 6BA6' RF amplifier, 6BE6 frequency converter, 6C4 HF oscillator, 2-6BA6 IF amplifiers, 6AL5 detector/AVC/ANL, 12AT7 1st AF and BFO, 6AQ5 AF output; 5Y3GT rectifier.

Controls: main tuning, bandspread tuning, antenna trimmer, band selector, RF gain, AC on/off and AF gain, stand-by/receive switch, noise limiter switch, tone switch, BFO pitch, AM/CW switch.

Antenna input: 50-300 ohms, balanced or unbalanced. Case has handsome two-tone gray wrinkle finish. Size: 10" H, 16 $\frac{1}{8}$ " W, and 10 $\frac{1}{8}$ " D. Less speaker (below). For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 35 lbs.

94 SU 833. \$16.00 Down. NET...159.95

94 SX 835. NTS-1. Matching 8" Speaker. Shpg. wt., 10 lbs. NET.....17.50

NEW NC-60 SPECIAL RECEIVER

A modern, ultra-compact communications receiver at low cost. Completely restyled and redesigned version of the popular SW-54—features greatly increased sensitivity and full electrical bandspread for precision tuning. Provides continuous coverage of broadcast, amateur and world-wide short-wave bands—540 kc to 31 mc.

Has a large slide-rule dial with marine, aircraft, amateur and foreign short-wave frequencies clearly marked. Includes front-panel headphone jack for late listening, built-in speaker. Selectivity: 6 db for 5 kc, 60 db for 70 kc. Controls: tuning, bandspread, off/on-volume, band selector, AM/CW switch, standby/receive switch.

Antenna input: 50-300 ohms. Tubes: 12BE6 converter, 12BA6 CW osc/IF amp; 12AV6 2nd detector/AVC/1st audio, 50C5 audio output, 35W4 rectifier, 7 $\frac{1}{2}$ x13 $\frac{1}{2}$ x8 $\frac{1}{2}$ ". For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 15 lbs.

92 SU 385. \$6.00 Down. NET....59.95

NATIONAL NC-66 RECEIVER

Versatile 3-way portable receiver—operates on AC, DC or from its own self-contained battery. Ideal as a fixed station amateur, marine or SWL receiver; or as a light-weight, easy-to-use portable unit. Five bands provide continuous coverage from 150 kc to 23 mc, including world-wide short-wave and amateur bands, AM broadcasts, and DF beacons. Long-scale electrical bandspread permits tuning and logging with accuracy.

Compact case—beautifully styled—also includes two antennas: sensitive ferrite loop for DF frequencies (see below) and broadcast bands, plus a telescoping whip for ham and shortwave bands. Easy to carry anywhere; it's even been salt-spray tested for marine use.

Built-in fixed-tuned CW oscillator for code reception. Quality 5" PM speaker is housed behind front panel; phone jack on front panel automatically cuts out speaker when phones are used. Dial calibrations are exceptionally clear, with amateur and short-wave bands plainly marked in color. Low filament-voltage tubes provide nearly instantaneous warm-up.

Miniature tube complement: 1U4 RF amplifier, 1L6 converter, 1U4 CW oscillator/IF amplifier, 1U5 2nd detector/AVC/1st audio amplifier, 3V4 audio output; selenium rectifier. Chrome-trimmed case measures 9 $\frac{1}{16}$ x12 $\frac{3}{8}$ x10". For 110-120 volts, 50-60 cycle AC, or DC, or battery (less battery, below). Shpg. wt., 16 lbs.

94 SX 832. \$13.00 Down. NET...129.95

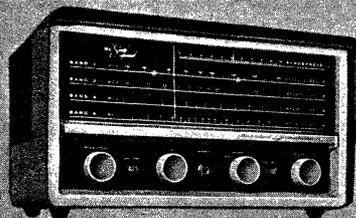
BATTERY FOR NC-66. Shpg. wt., 6 $\frac{1}{2}$ lbs. 80 J 616. NET.....4.80

NATIONAL RDF-66 DIRECTION FINDER

A modern radio direction finding instrument for use with the NC-66 receiver. Provides a simple, accurate means of navigation for pleasure craft and small fishing vessels. Built-in tuning meter assures pinpoint accuracy; positive one-null indication. Size, 7x8 $\frac{1}{2}$ x10". Takes power from NC-66. Shpg. wt., 8 lbs.

94 SX 836. \$4.00 Down. NET.....39.95

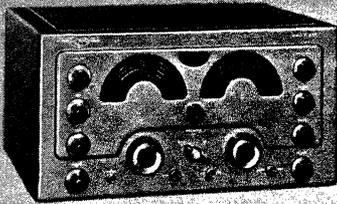
Ideal for Novices and Short-Wave Listeners



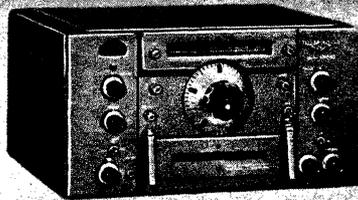
NC-60

WE'RE TRADING HIGH

Shopping for a big trade-in on your old receiver or transmitter? Be sure to drop a card to Allied. Tell us the make and model of the unit you'd like to trade and the equipment you want. You'll not only get a King-Size trade-in offer, but you can order under our Easy Pay Plan. Your old equipment should more than cover the down payment and you can pay the balance while enjoying the latest in station gear. Ask about our Bonus Package Plan.



NC-183D



HRO-60



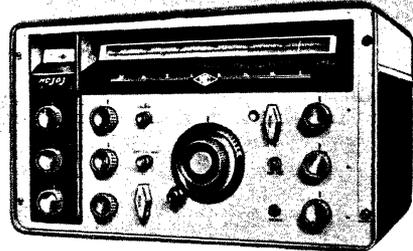
NATIONAL

TUNED
TO
TOMORROW

**The First
Self-Powered
6 & 2 Meter VFO**



NC-303



NEW NATIONAL NC-303 RECEIVER

Deluxe new version of the renowned NC-300 amateur-band receiver. Covers 160-10 meters; 160-1 1/2 meters and WWV with units below. Dual-conversion with 5 positions of selectivity—sharp down to 400 cycles at 6 db. Sideband choice with selectivity switch eliminates retuning. "Q" multiplier provides 60-db tunable notch. Separate noise limiters for AM and CW-SSB. Vernier dial for precision tuning. Excellent stability, sensitivity. 1 1/4 x 19 1/2 x 15". For 110-120 v. 50-60 cycle AC. 64 lbs.

92 SZ 384. \$45.00 Down. NET... 449.95
Units below for NC-300, 303. *NC-303 only.

CONVERTERS. For above. Shpg. wt., 2 lbs.

Stock No.	Type No.	Band	NET
83 S 870	NC-300C6A	6 meters	41.95
83 S 871	NC-300C2	2 meters	43.95
83 S 872	NC-300C1	1 1/2 meters	45.95

100-KC CRYSTAL CALIBRATOR. Wt., 1 lb.
83 S 873. \$2.40 Down. NET... 23.95

*CRYSTAL/WWV CALIBRATOR 1 1/2 lbs.

83 S 898. \$3.50 Down. NET... 34.95

NTS-2 MATCHING SPEAKER. Shpg. wt., 12 lbs.

83 SX 897. \$2.20 Down. NET... 21.95

NATIONAL NC-183D RECEIVER

Top-performance communications receiver featuring razor-sharp selectivity, extreme sensitivity and "solid-as-a-rock" stability. Covers 540 kc to 31 mc and 47-55 mc in 5 ranges; calibrated electrical bandspread for 80 through 6 meters. Double-conversion above 4.4 mc, with 3 IF stages and 16 tuned circuits. Single conversion below 4.4 mc. Six selectivity positions; 5 crystal and 1 non-crystal. Selectivity is 80 cycles at 6 db and 7.0 kc at 60 db. Better than 1 1/2 μ v sensitivity.

Two RF stages; amplified and delayed AVC; ANL; PP 8-watt audio, 15 tubes plus VR and rectifier. 10 1/4 x 19 1/2 x 16 3/4". For 110-120 or 220-240 volts, 50-60 cycle AC. Less speaker. Shpg. wt., 65 lbs.

97 SZ 666. \$41.90 Down. NET... 449.00

Matching Speaker. Shpg. wt., 10 lbs.

97 SX 663. \$2.00 Down. NET... 19.95

NEW NATIONAL VFO-62

Deluxe, self-powered VFO designed for extreme stability, convenience and versatility. Use with transmitters having 8-mc oscillator circuits for complete coverage of 6 and 2 meters. Frequency stability better than 0.005% after warm-up. Can be used with 1 mc crystal as a crystal calibrator. Rugged modern gray case, 5 1/4 x 6 1/2 x 5 1/2". For 110-120 v., 50-60 cycle AC. Wt., 6 lbs.

92 S 386. \$7.00 Down. NET... 69.95

NATIONAL HRO-60 RECEIVER

Latest of the great HRO receivers. Superb "weak signal" sensitivity, remarkable selectivity and extreme stability. Covers 50 kc to 54 mc with suitable coils. Precision tuning dial has effective scale length of 12 ft. Dual conversion above 7 mc. Has 2 RF stages, 4 IF stages, 12 permeability-tuned IF circuits and a 6-step crystal filter. Selectivity variable from 80 cps to 3.5 kc at 6 db points. Plug-in coils supplied provide general coverage from 1.7-30 mc or bandspread on 80, 40, 20 and 10-11 meters (other coils below). 15 tubes plus rectifier and regulators. 19 3/4 x 10 1/2 x 17 1/2". For 115/230 v., 50-60 cycle AC. Less speaker. Wt., 84 lbs.

97 SZ 722. \$64.50 Down. NET... 645.00
MATCHING 10" TABLE SPEAKER. Shpg. wt., 10 lbs.

97 SX 663. \$2.00 Down. NET... 19.95

HRO-60-XCU-2. Crystal calibrator. Wt., 1 lb.

97 S 717. \$3.00 Down. NET... 29.95

NFM-83-60. NFM adapter. Shpg. wt., 1 lb.

97 S 719. \$3.20 Down. NET... 31.95

HRO-60-AC. 15-meter bandspread coil. 2 1/2 lbs.

97 S 789. \$3.75 Down. NET... 37.50

HRO-60-E. 900-2050 kc coil. Wt., 2 1/2 lbs.

98 S 048. \$3.75 Down. NET... 37.50

HRO-60-F. 480-960 kc coil. Wt., 2 1/2 lbs.

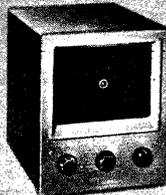
98 S 049. \$3.75 Down. NET... 37.50

Coil units not listed are available on special order. Allow 30 days for delivery.

**RME AMATEUR
EQUIPMENT**



DB-23
Preselector



4301 SSB
Detector-Selector



4350A Receiver

RME
RADIO
MANUFACTURING
ENGINEERS

RME DB-23 PRESELECTOR

A high-performance broadband preselector to boost the gain and signal-to-noise ratio of amateur receivers. Covers 80 through 10 meters. Has average gain of 25 db; improves s/n ratio better than 7.5 db. Requires no tuning. 3-6J6's plus rectifier. 5x7 1/2 x 6". For 110-120 v., 50-60 cycle AC. Shpg. wt., 6 1/2 lbs.

98 S 751. \$1.95 Down. NET... 49.50

RME 4301 SIDEBAND DETECTOR-SELECTOR

For outstanding SSB reception with any receiver that has a 455 kc IF. Plugs directly into the RME Model 4350A. Includes built-in power supply, extremely stable BFO, balanced detector circuit, accurate phase shift network, and adder and subtractor circuits. Front-panel control selects upper or lower sideband, double-sideband exalted-carrier reception or normal receiver operation. Adds up to 15 db to receiver sensitivity. 10x8 1/2 x 10". For 110-120 v., 50-60 cycles AC. Shpg. wt., 16 lbs.

99 SX 023. \$7.50 Down. NET... 75.00

RME 4350A RECEIVER

Dual-conversion receiver designed specifically for amateur-band coverage. Offers many deluxe features usually found only in higher-priced units. Has extremely high selectivity and exceptional ease of tuning. Covers 160 through 10 meters.

Features include 4 positions of selectivity (3 crystal; 1 non-crystal); up to 35 db of notch rejection with crystal filter; drift of only 0.01% for first 20 min. with negligible drift after warm-up. 8 1/2" dial has differential tuning mechanism with choice of 75:1 or 1:1 ratio. Has jacks for Model 4301 SSB adapter (at left).

Controls: tuning, AF gain, BFO pitch, BFO injection, antenna trimmer, calibration adjust, band selector, RF gain-AC off/on function switch (MGC-BFO, AGC-AM, AGC-SSB, MGC-SSB), stand-by switch, crystal selectivity, crystal phasing/rejector, ANL switch. 10x16 1/2 x 10". For 110-120 v., 50-60 cycle AC. Wt., 36 lbs.

94 SZ 889. \$24.90 Down. NET... 249.00

99 SX 049. Model 4302 Speaker. 10x8 1/2 x 5 1/2". 6 lbs. NET... 17.50

Write to Allied's Ham Shack for a BONUS PACKAGE PRICE on the Gear You Need



HAMMARLUND

**PRECISION STANDARDS
SINCE 1910**

HAMMARLUND AMATEUR-BAND RECEIVERS



HQ-110C

HAMMARLUND HQ-110C RECEIVER

A ruggedly constructed, dual-conversion receiver designed specifically for the amateur. Provides an exceptionally high standard of reception on SSB, CW and AM—full dial coverage of 160, 80, 40, 20, 15, 10 and 6 meters. Outstanding features include "Q" multiplier for high selectivity, built-in 100-kc crystal calibrator, separate linear detector for SSB and CW and automatic clock-timer.

Includes the Hammarlund "Auto-Response" feature—varies the audio passband with signal strength for optimum reception. Dial-scale reset allows precise calibration of tuning dials. Separate BFO is stabilized for SSB and CW reception. Has 9 tuned circuits in IF strip, antenna trimmer and voltage-regulated, temperature-compensated oscillator. Dual conversion, 6 to 40 meters.

Frequency drift less than 0.01% after warm-up. Sensitivity: 1.5 μ v. for a 10 db signal-to-noise ratio, 10 tubes plus rectifier and VR. Size, 9 $\frac{1}{2}$ x9 $\frac{1}{2}$ x16 $\frac{1}{4}$ ". Less speaker (listed below). For 110-120 v., 50-60 cycle AC. Shpg. wt., 31 lbs.

94 SU 822, \$25.90 Down. NET. 259.00

94 SU 821, HQ-110. Above less clock-timer. NET. 249.00

94 SX 828, S-100 Matching 6x9" Speaker. Wt., 10 lbs. NET 14.95



HQ-170C



HC-10

HAMMARLUND HQ-170C RECEIVER

Deluxe, triple-conversion, amateur-band receiver—combines the advantages of the HQ-110C and the HC-10 with many "plus" features. Expert design is highlighted by a razor-sharp slot filter; separate linear product detector; \pm 3-kc vernier tuning for SSB; 7 positions of selectivity and choice of 3 AVC decay speeds. Includes automatic audio passband control, sideband selector, 100-kc calibrator, dial reset—and clock-timer. Notch filter adjustable \pm 5 kc for over 40 db attenuation. Depth control provides up to 20 db additional—notch is 1.5 kc wide at 6 db. Triple-conversion (IF's at 3055, 455, 60 kc) from 6-40 meters, dual-conversion on 80 and 160 meters. 15 tubes plus rectifier, VR, 10 $\frac{1}{2}$ x19x13". Less speaker (below). For 110-120 v., 50-60 cycle AC. Shpg. wt., 45 lbs.

92 SU 347, \$36.90 Down. NET. 369.00

92 SU 477, HQ-170. Above less clock-timer. NET. 359.00

83 SX 599, S-200 Matching Speaker. 11x12x9". 9 $\frac{1}{2}$ lbs. NET. 19.95

HAMMARLUND HC-10 CONVERTER

A complete IF and audio system—use with any superhet having a 450-500 kc IF for outstanding SSB, AM and CW reception. Extremely easy to install. Includes slot filter, linear detector, 3-speed AVC and \pm 3 kc vernier similar to those of the HQ-170C. 7 selectivity positions, 9 tubes plus rectifier, 9 $\frac{1}{2}$ x9 $\frac{1}{2}$ x7 $\frac{1}{8}$ ". Less speaker (left). For 110-120 v., 50-60 cycle AC. Shpg. wt., 17 lbs.

94 SX 823, \$14.90 Down. NET. 149.00

GENERAL-COVERAGE COMMUNICATIONS RECEIVERS



HAMMARLUND HQ-160 RECEIVER

Extremely sensitive and selective general coverage receiver. Covers 540 kc to 31 mc, continuously, in 6 bands. Offers dual-conversion with crystal-controlled 2nd conversion oscillator, separate linear detector for SSB and CW, separate stabilized BFO, "Q" multiplier and notch filter.

Other outstanding features include "Auto-Response" automatic audio passband control, 100-kc calibrator, voltage-regulated and temperature-compensated oscillator, dial reset, IF output jack and electrical bandspread on the amateur bands.

14 tuned IF circuits for excellent skirt selectivity. Dual-conversion on 10, 15 and 20 meters. Adjustable notch filter gives up to 60 db attenuation, \pm 5 kc. Low-loss coil forms and rugged construction for high stability. 11 tubes; plus rectifier, VR, 10 $\frac{1}{2}$ x19x13". For 110-120 v., 50-60 cycle AC. Less speaker (below). Shpg. wt., 47 lbs.

94 SU 816, \$37.90 Down. NET. 379.00

83 SX 599, S-200 6x9" Matching Speaker. Shpg. wt., 9 $\frac{1}{2}$ lbs. NET. 19.95



HAMMARLUND HQ-100C RECEIVER

Popular communications receiver offering Hammarlund quality at moderate cost. Covers 540 kc to 30 mc in 4 bands. Features include: "Auto-Response" circuit to adjust audio bandwidth for best reception; "Q" multiplier for selectivity variable from 100 cps to 3 kc; high sensitivity—less than 2 μ v for 10 db S/N ratio; voltage regulated, temperature compensated HF oscillator for extra stability; calibrated electrical bandspread; built-in clock-timer; and "S" meter.

Tube lineup: 6BZ6 RF, 6BE6 mixer, 6C4 HF osc., 2-6BA6 IF's, 6AL5 det./ANL, 12AX7 audio amp/Q-mult./BFO, 6AQ5 audio out.; 5Y3 rectifier, OB2 voltage regulator. Size, 9 $\frac{1}{2}$ x16 $\frac{1}{4}$ x9 $\frac{1}{8}$ ". Less speaker (above, left). For 110-120 v., 50-60 cycle AC. Shpg. wt., 31 lbs.

94 SU 829, \$19.90 Down. NET. 199.00

HQ-100. As above, but less clock.

94 SU 827, NET. 189.00

HAMMARLUND XC-455 CRYSTAL-CONTROLLED BFO. For single-signal CW. Wt., 1 lb.

94 S 824, NET. 15.95



TMC GPR-90 RECEIVER

A precision-built communications receiver designed for the most discriminating user. Employs heavy-duty construction and the finest quality components throughout. Continuously tunable from 540 kc to 31 mc in six accurately calibrated bands with full electrical bandspread. Dual-conversion above 5.4 mc for image rejection of better than 60 db.

Utilizes a front-end grounded-grid RF amplifier above 3.3 mc to achieve an extremely low noise figure. Has exceptional selectivity—variable in 6 steps (5 crystal and 1 non-crystal) from 200 cycles to 5 kc. Includes variable-bandwidth audio filter, 100-kc crystal calibrator, highly effective ANL, crystal phasing, antenna trimmer and dial locks. Fast-acting AVC keeps output constant even with fading signal.

Sensitivity is less than 5 μ v from 540 to 1500 kc and 1 μ v on higher bands at a 10 db. signal-to-noise ratio. Has coaxial IF output for SSB slicer, 2 watts audio output. Employs 13 tubes, plus rectifier and VR. Size, 10x20x15". Less speaker. For 105-125 v., 50-60 cycle AC. Shpg. wt., 63 lbs.

94 SZ 895, \$49.50 Down. NET. 495.00

MATCHING SPEAKER. For above, 11 lbs.

83 SX 891, NET. 16.50

knight-kits for the Ham



Unexcelled Values . . . Outstanding Features

Professional quality—pace-setting design and performance—and substantial savings over the cost of factory-built units—are yours with these Knight-Kit components for the amateur. Building a Knight-Kit is remarkably easy and cost is amazingly low. For full enjoyment from Amateur Radio, set up your station with famous Knight-Kit equipment.

knight-kit

BUILD THE BEST . . .
SAVE UP TO HALF

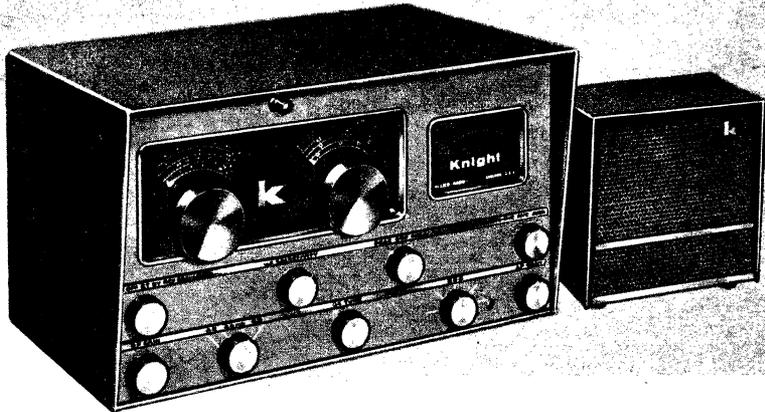


50-Watt CW Transmitter Kit

A completely self-contained bandswitching CW transmitter kit—covers 80, 40, 20, 15 and 10 meters. Can be operated crystal-controlled, or with a VFO such as the Knight-Kit VFO below. Rated at 50 watts input—actually operates at up to 60 watts input on 80 and 40 meter bands. Perfect as a "first rig for Novices and as a low-power standby rig for the advanced amateur. Includes: transmitting-type 807 tube in final; built-in pi-section antenna coupler; ceramic-insulated tank capacitor; pre-wound parasitic chokes; ceramic coil forms; RF-type coax connector; crystal and VFO socket on panel; grid-plate meter switch; fused power transformer; copper-finished steel chassis for effective TVI suppression; and steel cabinet. With tubes, all parts, instructions. Less crystal and key. $8\frac{1}{2} \times 10\frac{1}{2} \times 8\frac{1}{4}$ ". For 110-125 v., 50-60 cycle AC. Wt., 19 lbs.

83 YX 255. \$3.90 Down. NET. . . . 38.95

See pages 241-273 for Knight-Kits to suit every need or interest—test equipment—high-fidelity and stereo component kits—experimenter's kits—and many others.



knight-kit Amateur Communications Receiver Kit

An outstanding achievement in equipment design, this receiver easily rates as one of the finest kit values ever offered. In addition to printed circuitry in every stage, it employs the exclusive Knight printed circuit bandswitch—available in no other receiver, regardless of cost! Printed circuit boards and bandswitch eliminate critical "lead dress." Designed by Ham engineers to meet every Ham need, this receiver has all the features, selectivity and sensitivity of many higher-priced, factory-built units.

OUTSTANDING FEATURES. Covers 540 kc to 30 mc in 4 ranges; calibrated electrical bandspread on all Ham bands from 80-10; slug-tuned hi-Q coils; continuous B+ on BFO and HF oscillator lets you switch from standby to receive with no drift; VR-tube regulated B+ on HF oscillator; built-in Q-multiplier peaks signal or nulls interference (*60-db notch really takes out interference*); delayed AVC; noise limiter; 455-kc IF; and provision for installing crystal calibrator listed below. Has exalted BFO injection for SSB. Vernier dials—no strings.

Selectivity is variable from 300 cps to 4.5 kc at 6 db down. Outstanding sensitivity—1.5 microvolts for 10 db s/n ratio, *even on 10 meters!* Controls: main tuning; band-spread tuning, band selector, Q-multiplier selectivity, Q-multiplier tune, null-off-peak, BFO pitch, RF gain, AF gain, BFO-MVC-AVC-ANL, off-stdb-recv-cal, antenna trimmer and headphone jack. Coaxial and screw-terminal antenna connectors. Tubes: 6BZ6 RF amp.; 6BH8 mixer and HF osc.; 6AZ8 1st IF and 1st audio; 6AZ8 2nd IF and S-meter amp.; 6BC7 delayed AVC, 2nd det., ANL; 6AW8 output and BFO; 12AX7 "Q" mult. $10 \times 1034 \times 16$ ". With tubes, all parts, wire and solder. Less speaker and S-meter. For 110-125 v., 50-60 cycle AC. Shpg. wt., 30 lbs.

83 YU 726. \$10.45 Down. NET. . . . 104.50

S-METER KIT. For above. Shpg. wt., 1 lb. 83 Y 727. NET. . . . 10.75

SPEAKER FOR ABOVE. In matching cabinet. Special-design cone reduces QRN; peaks voice frequencies. Imp., 8 ohms. Wt. 4 lbs. 83 Y 728. NET. . . . 7.50

knight-kit Amateur Accessories

SELF-POWERED VFO KIT

Deluxe, expertly designed VFO at an incomparably low price. Calibrated for 80, 40, 20, 15, 11 and 10 meters; output on 80 and 40 meters. 40-volt output on 80 meters and 20-volt output on 40 meters is more than adequate to excite oscillator stage of any transmitter. An ideal companion to the Knight-Kit 50-watt transmitter, above.

Complete with built-in, transformer-type power supply. Features extremely high stability, oscillator keying for fast break-in, and compact construction. Drift-free, series-tuned Clapp oscillator uses 1% silver mica capacitors. Tank coil wound on ceramic form; padders are air dielectric. Plugs into crystal socket of transmitter. Features: TVI suppression; vernier drive; plenty of bandspread. Two-chassis design keeps heat from oscillator circuit. Voltage regulated for stable output. Tubes: 6BH6, 6AK6; 6X4 rectifier, OA2 regulator. $6 \times 6 \times 8\frac{3}{4}$ ". With all parts, tubes, wire, solder and step-by-step instructions with pictorial and schematic diagrams. For 110-125 volts, 50-60 cycles AC. Shpg. wt., 11 lbs.

83 Y 725. \$2.95 Down. NET. . . . 29.50

AMATEUR Z-BRIDGE KIT

An invaluable aid for getting peak efficiency from your antenna. Measures SWR from 1-150 mc; line impedance from 20-400 ohms on frequencies to 100 mc. Any sensitive VOM can be used as null indicator. Uses standard coax connectors. Jacks for checking input and bridge voltages; impedance-calibrated dial. 1% calibrating resistor, plasticized SWR chart. With all parts, wire, solder and instructions. Size, $2\frac{1}{4} \times 3\frac{1}{2} \times 4$ ". Wt., 2 lbs.

83 Y 253. NET. . . . 5.85

100-KC CRYSTAL CALIBRATOR KIT

100-kc crystal frequency standard at very low cost. Gives marker every 100 kc up to 35 mc. An amateur "must" for marking band edges. Mounting flanges permit installation inside of or on back of receiver cabinet. Requires 6.3 v. at 0.15 amps and 150-300 v. DC at 3-6 ma—easily obtainable from any receiver. Trimmer for beating with WWV; Off-On switch. With all parts, tube, crystal, wire, solder and instructions. Size, $1\frac{1}{2} \times 1\frac{1}{2} \times 3$ ". Shpg. wt., 1 lb.

83 Y 256. NET. . . . 10.95

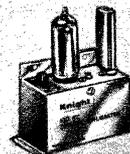


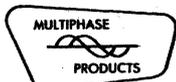
Amateur Z-Bridge

Self-Powered VFO KIT



100-kc Crystal Calibrator





CENTRAL ELECTRONICS

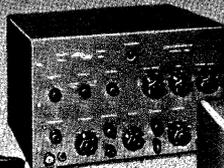
MODERN SSB EQUIPMENT FOR OUTSTANDING



Model MM-2



Model 600-L



Model 20-A



Model GC-1

MODEL 100V EXCITER/TRANSMITTER

Deluxe, highly flexible exciter/transmitter for SSB, DSB, AM linear, PM, CW and FSK. Bandswitching coverage of 80 through 10 meters with overlap for MARS, CAP, etc. Features single-control operation on each band—only the VFO is tuned, all other circuits are broad-banded. 100 watts P.E.P. SSB input; 170 watts CW, PM, FSK; 100 watts AM linear.

Permeability-tuned heterodyne VFO provides high stability; less than 25 cps drift in any 10-minute interval after 5-minute warm-up. Direct-reading dial is calibrated in 1-kc steps—two tuning ranges for maximum convenience. Phasing-type SSB generator gives output with over 50 db suppression of carrier and unwanted sideband. Choice of upper, lower, or double sideband on SSB and AM. "Non-ringing" filter limits audio response to 200-3500 cps.

Built-in 2" scope monitors RF linearity. Specially designed audio limiter makes it impossible to overmodulate the balanced modulator. Meter reads power input, RF output, degree of carrier suppression and line voltage. Seldom-used controls such as Voice-Control Trip Level and FSK Deviation are concealed behind front-panel magnetic doors. Output adjustable down to 10 watts. TVI suppressed; two 6550's in final.

Frequency ranges: 3.5-4.5 mc, 6.5-7.5 mc, 13.5-14.5 mc, 20.5-21.5 mc, 27.7-29.7 mc. Spare switch position provided for 160 meters. With heterodyne crystals. Gray case, 8 3/4 x 18 x 15". For 110-120 v., 50-60 cycle AC. Shpg. wt., 87 lbs.

94 SZ 892. NET. 595.00

MODEL MM-2 RF ANALYZER

Extremely useful RF analyzer—consists of a compact 3" oscilloscope with built-in low-distortion audio oscillator. Five function positions (manual, sine and speech envelopes, and AF and RF trapezoids) permit convenient analysis of SSB and AM transmitting systems. Displays IF envelope patterns of received signals with plug-in adapters (below). Use with transmitters up to 5 kw on 1 to 55 mc. Useful indications to 200 mc. 9 1/2 x 6 1/2 x 14 1/2". For 110-120 v., 50-60 cycle AC. Shpg. wt., 19 lbs.

94 SU 842. NET. 129.50

MM-2 RF ANALYZER KIT. Above in kit form.

83 SU 868. NET. 99.50

94 S 818. RM-455 ADAPTER. For receivers with 450-500 kc IF's. 1 lb. NET. 9.95

94 S 819. RM-50 ADAPTER. For receivers with 50 kc IF's. 1 lb. NET. 9.95

94 S 837. RM-80 ADAPTER. For receivers with 80 kc IF's. 1 lb. NET. 9.95

MODEL 600L LINEAR AMPLIFIER

Broadband linear amplifier for SSB, CW, PM and AM linear. Delivers 400 watts P.E.P. on SSB, 300 watts on CW and PM, 100 watts on AM. Bandswitching, 160-10 meters. Has single 813 in Class AB₁. Only 8 watts required to drive amplifier to full output. Has broadbanded input and output; requires no tuning. Automatic load mismatch protection. Meter reads power input, RF current, reflected power and grid current. TVI suppressed. 52-ohm output. Built-in power supply. Size, 8 3/4 x 18 x 15". For operation from 110-120 v., 60 cycle AC. Shpg. wt., 117 lbs.

83 SZ 816. NET. 495.00

MODEL 20-A SSB EXCITER

Bandswitching, voice-controlled exciter for SSB, AM, PM and CW. Covers 160-10 meters. Choice of sideband. Over 40 db sideband suppression. Provides blocking bias. Has 9-mc heterodyne osc—requires external VFO or crystal, 14 3/4 x 10 x 8 3/4". For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 34 lbs.

83 SU 811. NET. 279.50

MODEL 20-A EXCITER KIT. Above in kit form.

83 SU 810. NET. 219.50

83 S 815. 458-K. Converts BC-458 to VFO for 20-A. 2 lbs. NET. 17.50

83 S 812. QT-1 ANTI-TRIP UNIT. Plugs into 20-A to prevent loud signals from tripping break-in circuits. 2 lbs. NET. 12.50

MODEL GC-1 AUDIO AMPLIFIER

Gated-compression amplifier eliminates continual adjustment of receiver gain to boost weak signals or cut down strong signals. For CW, AM, and SSB. Change in output is less than 3 db for signal variations up to 40 db. Insert in speaker line. 4 tubes plus rectifier. 9 1/2 x 6 1/2 x 14 1/2". For 110-120 v., 50-60 cycle AC. Shpg. wt., 17 lbs.

83 SX 865. NET. 59.50

MODEL GC-1 AMPLIFIER KIT. Above, in kit form. Shpg. wt., 17 lbs.

83 SX 866. NET. 49.50

MODEL B SIDEBAND SLICER

Converts receivers with 450-500 kc IF's for outstanding SSB reception. Selects either sideband. Built-in Q-multiplier. 5 1/2 x 8 3/4 x 13". For 110-120 v., 60 cycle AC. 17 lbs.

83 SX 817. NET. 99.50

Gonset—Drake—TMC SSB Gear

NEW GONSET GSB-100 SSB EXCITER

Outstanding SSB, PM, CW and AM linear operation with this new, advanced-design exciter. Provides 100 watts P.E.P. input on 80 through 10 meters—each band covered in 600-kc ranges.

Stability of built-in VFO is better than 250 cycles in two hours from a cold start—tuning mechanism has 100:1 gear ratio. Exciter provides choice of sidebands. Has excellent suppression figures: unwanted sideband, 45 db; carrier, 60 db min. Special phasing-filtering system is used—no critical carrier balancing is involved and voice transmissions sound natural.

Includes adjustable VOX and anti-trip, phone-patch provision, and 100 v. final blocking bias. Pi-network output matches 30-200 ohms. All crystals supplied, except those for 11 meters and the CW portion of 10. Size, 10 1/4 x 19 1/4 x 18". For 110-120 v., 50-60 cycle AC. Shpg. wt., 120 lbs.

91 SZ 998. NET. 439.50

NEW DRAKE 1-A SSB RECEIVER

Crystal-controlled triple-conversion receiver for SSB, CW and AM. Seven 600-kc ranges—80, 40, 20, 15, and three 10-meter ranges. New VFO circuit provides extreme stability—less than 300 cps drift after 15 minutes. 2.5-kc filter tunes through both sidebands. Product detector for distortion-free reception. Has 100-kc crystal calibrator.

Receives AM by exalted-carrier method. IF frequencies of 2900-3500, 1100 and 50 kc. Selectivity of 2.5 kc at 6 db, 8.1 kc at 60 db. Sensitivity, better than 1 µv from 20 db signal-to-noise ratio. 12 tubes plus rectifier. Built-in speaker. 11 x 6 3/4 x 15". For 110-120 v., 50-60 cycle AC. Wt., 20 lbs.

92 SU 312. NET. 299.00

TMC GSB-1 SSB ADAPTER

Top-performance filter-type slicer for easy, accurate SSB tuning with any receiver having 455-kc IF. Also for AM and CW. Has additional AVC and noise limiter and includes built-in audio amplifier. Electrical bandwidth calibrated in cycles eliminates critical adjustments. Range, 452-458 kc. Choice of sidebands. Provides audio output into 6, 8, 16, 600 ohms or headphones. 10 x 12 x 15". For 110-120 v., 50-60 cycle AC. Shpg. wt., 31 lbs.

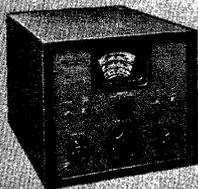
91 SU 997. NET. 149.50



Model GSB-100



Model 1-A



Model GSB-1

Shopping for a big trade-in on your old gear? Just write our Ham Shack—tell us what you want and what you have to trade. You'll be surprised at our King-Size trade-in offer and you'll be able to use our Easy Pay Plan.

AMATEUR PERFORMANCE



**PRECISION
ELECTRONIC
EQUIPMENT**

NEW P&H LINEAR AMPLIFIER



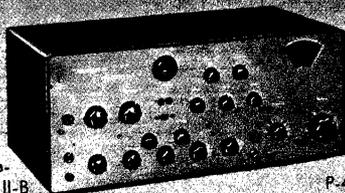
MODEL LA-400B. Here's an excellent grounded-grid linear amplifier for high power at minimum cost. Employs clean, straightforward design, with high-quality components throughout. Just connect a suitable exciter, tune up, and you're on the air with 400 watts P.E.P. input. May be used on SSB, CW, PM, FM, or AM linear.

Rotary inductor allows continuous coverage from 75 through 10 meters. Low-impedance, untuned-type input circuit for maximum operating convenience. Requires 20 watts P.E.P. drive for full output. Pi-network matches 50-300 ohm loads at maximum efficiency. Meter measures RF voltage input, plate current and RF output current. Has provision for applying blocking bias from exciter.

Power supply built into compact amplifier case. Size, 10 $\frac{1}{2}$ x14 $\frac{1}{2}$ x8 $\frac{3}{4}$ ". For operation from 105-125 v., 50-60 cycle AC. Shpg. wt., 52 lbs.
91 SZ 992. NET.....199.95

MODEL LA-400C. Above in kit form.
91 SZ 993. NET.....149.95

"Phase-Master" II-B



P-400GG



"Time-Master"



"Bandhopper"



NEW "PHASEMASTER" II-B

Deluxe transmitter/exciter for SSB, DSB, PM and CW. 65 watts P.E.P. output. Bandswitching, 160 through 10 meters. Includes built-in VFO (100-cps stability), temperature-compensated 9-mc osc., VOX, pi-network, speech filter, TVI suppression. 6146 final. 50-600 ohm output. 9 $\frac{1}{4}$ x10 $\frac{1}{2}$ x11 $\frac{1}{4}$ ". For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 58 lbs.

94 SZ 881. NET.....459.00

PHASEMASTER II-A. Above less VFO. 37 lbs.

94 SZ 843. NET.....329.50

"BANDHOPPER" VFO

For phasing-type exciters using 9-mc SSB generation. Covers 160-10 meters. 100-cps stability. 9 $\frac{1}{16}$ x7 $\frac{1}{16}$ x11 $\frac{1}{16}$ ". For 110-120 v., 50-60 cycle AC. Shpg. wt., 22 lbs.

94 SU 897. NET.....139.50

"TONE-MASTER"

Transistorized audio sine wave generator. Ideal for two-tone SSB test, etc. Less 2 Burgess Type 7 penlight cells. 4 $\frac{1}{2}$ x2 $\frac{1}{2}$ x2 $\frac{3}{4}$ ". Shpg. wt., 2 lbs.

83 S 861. NET.....12.95

P-400-GG LINEAR AMPLIFIER

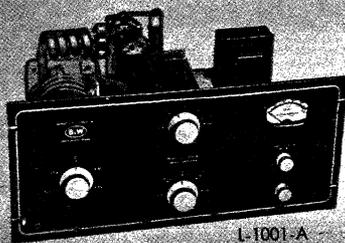
High-performance grounded-grid linear amplifier. A perfect companion for an exciter of the Phasemaster II series, or any other unit with sufficient output. Rated 575 watts P.E.P. input on SSB and 200 watts AM linear, PM or CW. Bandswitching, 80 through 10 meters; plate and grid metering plus power in and power out metering. Delivers full output with 20 watts P.E.P. drive. Extremely stable, grounded-grid triode circuitry. Uses 4-6CN6 hi-mu triodes. Pi-network tank circuit matches wide variety of feed lines. Switching arrangement prevents applying HV before filaments are turned on. Black wrinkle with gray panel; matches Phasemaster II series. 9 $\frac{1}{4}$ x19 $\frac{1}{4}$ x11 $\frac{1}{8}$ ". For 110-120 v., 50-60 cycle AC. Shpg. wt., 50 lbs.

83 SZ 863. NET.....269.50

"TIME-MASTER"

Gong sounds every 10 minutes to remind amateur to give his call. No resetting. Ideal for VOX. 4 $\frac{1}{2}$ x2 $\frac{1}{2}$ x2 $\frac{3}{4}$ ". For 110-120 v., 50-60 cycle AC. Shpg. wt., 2 lbs.

83 S 860. NET.....7.95



L-1001-A

L-1001-A LINEAR AMPLIFIER

High-power, grounded-grid, linear amplifier—provides 1250 watts P.E.P. input on SSB, 1000 watts on CW and 375 watts on AM linear. Essentially the same as the RF section of the L-1000-A, it permits bandswitching coverage of 80 through 10 meters. Input is broadbanded and needs no tuning. Uses a pair of 813's with pi-network tank for precise adjustment and loading. Requires 40-80 watts drive (20 watts on AM linear), easily supplied by the 5100-B transmitter at right. Matches 50-75 ohm loads. Has built-in supply to provide filament and bias voltage; less 813's and plate supply fuse of 1750 to 3000 volts is suggested). Designed for standard rack panel mounting. For 110-120 v., 50-60 cycle AC. Size, 16x21x15". Shpg. wt., 44 lbs.
77 SZ 711. NET.....240.00

380-B TR SWITCH

Provides automatic electronic antenna changeover. Handles 1 kw SSB and CW, 300 watts AM phone. Action is instantaneous. Negligible insertion loss. For 52 or 75 ohm lines. Has coax connectors; requires Amphenol 83-1T fitting. 3 $\frac{7}{8}$ x3 $\frac{1}{2}$ x5". For 110-120 v., 50-60 cycle AC. Wt., 2 lbs.

98 S 775. NET.....23.70



515B-B

515B-B SSB GENERATOR

Adapts 5100-B transmitter (at right) for outstanding 80-10 meter SSB operation. Completely bandswitching. Includes VOX and anti-trip circuits. Power is obtained from 5100-B. TVI suppressed. 11 $\frac{1}{2}$ x10x14 $\frac{1}{2}$ ". Shpg. wt., 27 lbs.

97 SU 607. NET.....265.00

COMPONENTS AND ACCESSORIES

2Q4 AUDIO PHASE-SHIFT NETWORK. Will split any 300-3000 cps audio signal into two components, equal in amplitude, but 90° ($\pm 1.5^\circ$) out of phase with respect to each other. In octal-based shell. 1 lb.

99 S 122. NET.....4.65

550-A COAXIAL SWITCH. 5 positions. Handles up to 1 kw RF, AM modulated. 2 lbs.

97 S 608. NET.....8.25

551-A COAXIAL SWITCH. 2 positions. Handles up to 1 kw, AM modulated. 2 lbs.

97 S 591. NET.....7.95

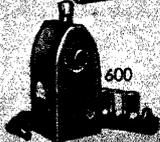
FILAMENT CHOKES. For GG amplifiers. *maximum total filament current.

No.	Mfrs Type	Amps*	Size	Lbs.	NET
73 S 067	FC-15	15	1 $\frac{1}{2}$ x1 $\frac{1}{2}$ x4 $\frac{1}{2}$ "	1 $\frac{1}{2}$	7.50
73 S 066	FC-30	30	2x2 $\frac{1}{2}$ x5"	2 $\frac{1}{2}$	9.90

380-B



600



5100-B TRANSMITTER

Self-contained all-band transmitter of superior performance. Operates on 80-75, 40, 20, 15, and 11-10 meters with crystals or built-in high-stability VFO. Provides 145 watts input on AM, 180 watts CW; also 180 watts P.E.P. on SSB when used with generator at left. Gear-driven VFO dial can be read to 1 kc on all bands.

Biasing system allows clean, crisp CW break-in. Final employs two 6146's in parallel, feeding a pi-network tank. Another pair of 6146's function in class AB2 to provide full modulation. Built-in low-pass filter for minimum TVI. 75-ohm output. Size, 11 $\frac{1}{2}$ x22x14 $\frac{1}{2}$ ". For 110-120 v., 50-60 cycles AC. Shpg. wt., 88 lbs.

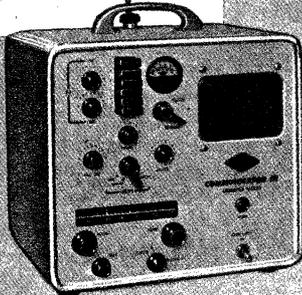
97 SZ 606. NET.....525.00

600 GRID-DIP METER

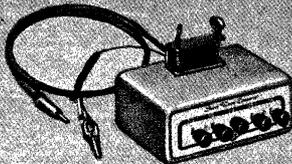
A valuable instrument in any ham shack or laboratory. Covers 1.75 to 260 mc in 5 ranges with color-coded plug-in coils. Has adjustable 500-microamp meter. May also be used as an absorption wavemeter or signal generator. 3x3x7". For 110-120 v., 50-60 cycle AC. Shpg. wt., 3 lbs.

84 S 487. NET.....45.72

FAMOUS GONSET EQUIPMENT FOR MOBILE AND



3136



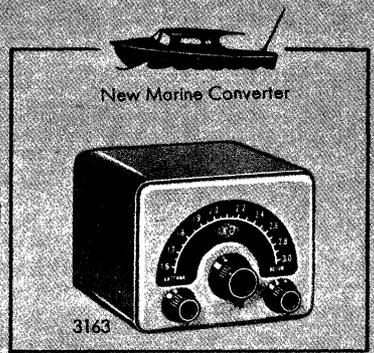
3128



3002



3226



3163

COMMUNICATOR TRANSCEIVERS

MODEL 3136 COMMUNICATOR III. Complete 6-meter station in one portable case. Operates from 110-120 v., 50-60 cycle AC, or 12 v. DC; easily modified for 6 v. DC by changing jumper. Provides complete coverage of the 6 meter band. Highly selective receiver includes low-noise cascade RF stage, AVC, noise clipper, calibrated slide-rule dial, and 4" speaker. 2E2B in transmitter delivers 6-8 watts output, heavily AM modulated by 6L6GB. Gang-tuned circuits with adjustment knobs for all tunable circuits. Meter measures exciter and final output, and receiver signal level. Uses 8-mc crystals (1/2") or VFO (right). Less crystals (see page 386), whip and mike. Size (HWD): 10 1/4 x 11 1/4 x 7 1/8". Shpg. wt., 23 lbs.

92 SU 304. NET.....269.50

MODEL 3133 COMMUNICATOR III. As above, but for 2 meters. With whip.

92 SU 305. NET.....269.50

MODEL 3212 LINEAR AMPLIFIER. For use with Model 3136 above. Provides power output of 50-60 watts. 10x10 3/4 x 11". For 110-120 v., 50-60 cycle AC only. 30 lbs.

92 SU 306. NET.....169.50

MODEL 3211 LINEAR AMPLIFIER. As above, but for use with Model 3133.

92 SU 307. NET.....169.50

CIVIL DEFENSE MODELS. CD versions of the above units approved for matching funds are available on special order. Allow 4 weeks for delivery.

PUSH-BUTTON SW CONVERTER

MODEL 3128. Ultra-compact, push-button converter for world-wide shortwave reception in your car. Covers frequencies employed by foreign and domestic shortwave broadcast stations, air bases, time stations, amateur radio stations, etc.

Can be used with any 12 v. auto radio that can be manually tuned. Quickly and easily installed—no internal connections to car radio. Just plug patch cable into antenna receptacle and clip power lead to 12 v. DC.

Four push-buttons select the 49, 31, 19 and 13 meter bands. Depress the desired button, and the corresponding shortwave band will appear across your tuning dial. Fifth button is for standard broadcast operation. Size, 2 1/4 x 5 1/4 x 4 1/2". Shpg. wt., 2 lbs.

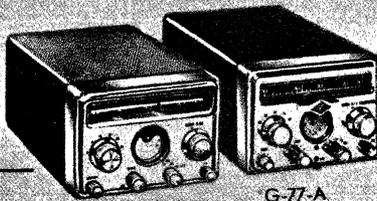
92 S 303. NET.....29.95

NEW 2 AND 6-METER VFO

MODEL 3226. Compact, highly stable VFO for frequency control of either the 2 or 6-meter Communicator transceiver (listed at left). Both 2 and 6-meter bands are spread across an illuminated slide-rule dial. Front-panel knob provides choice of band; spotting switch allows "zeroing in". Switching of transceiver to transmit position automatically actuates VFO. Cabinet is finished in Alpine White to match standard Communicator III units. Tubes: 2—6BJ6 and 1—OB2 voltage regulator. Size, 6 x 4 1/2 x 8". For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 10 lbs.

83 S 597. NET.....69.50

Complete "Mobile Team"



G-66-B

G-77-A

G-66-B MOBILE RECEIVER

Latest model of this deluxe double-conversion mobile receiver—covers 160-10 meters and the BC band. High sensitivity, steep skirt selectivity and rugged stability for top SSB, AM and CW performance. Less power supply and speaker. Size, 4 1/2 x 6 1/2 x 9". Shpg. wt., 9 lbs.

83 S 831. NET.....209.50

MODEL 3069 POWER SUPPLY AND SPEAKER. For G-66 series receivers. For 12 v. DC (easily changed to 6 v. DC) or 115 v., 60 cycle AC. 4 1/2 x 6 1/2 x 4 3/4". 8 1/2 lbs.

83 S 832. NET.....49.50

MODEL 3098 "THIN-PACK" 12 VDC SUPPLY. For G-66 series. Shpg. wt., 6 lbs.

83 S 596. NET.....29.50

G-77-A MOBILE TRANSMITTER

Latest model of this compact, bandswitching mobile transmitter, complete with built-in high-stability VFO and separate power supply (not illus.). Covers 80 through 10 meters. Input to 60 watts on AM or CW.

Drum-type VFO dial with 40:1 tuning ratio exposes only band in use. Driver-multiplier stages are ganged with oscillator for single-knob exciter control. Press-to-talk system with built-in antenna relay. 6146 final has pi-network output.

Heavy-duty vibrator power supply operates from 6 or 12 v. DC, or 115 v., 50-60 cycle AC. Size (HWD): transmitter, 4 1/2 x 6 1/2 x 9"; power supply, 7 1/4 x 7 1/2 x 9". Less microphone. Shpg. wt., 32 lbs.

83 SU 895. NET.....299.00

MOBILE MARINE CONVERTER

MODEL 3163. This easy-to-install converter allows you to monitor the 1.6 to 3.0 mc range with any 12 v. car radio. Perfect for listening to ship-to-ship and ship-to-shore communications; police broadcasts; the 160-meter amateur band; and marine weather broadcasts. Requires only 12 v. DC—no internal connections to car radio required. Extremely simple to install—just connect the output cable of the converter to the auto radio, connect the broadcast-band antenna to the converter input receptacle and clip the power lead to the ignition or accessory terminal. With cables. Size, 3 3/4 x 4 1/4 x 4 1/8". Shpg. wt., 5 lbs.

77 S 688. NET.....29.50

3-30 MC MOBILE CONVERTER

MODEL 3002. An excellent general-coverage converter—perfect for all-band mobile installations. Covers 3-30 mc continuously in 3 ranges. High sensitivity with a short whip antenna. 4 tubes: 6BH6 RF amp., 6AV6 mixer, 6C4 oscillator and 6BH6 IF. Compact and easy to install. Requires 135 v. DC at 10 ma and 6 v. at 0.75 amps. 1500 kc output. With cables. Overall size, 5 1/4 x 3 1/2 x 5 1/4". Shpg. wt., 5 lbs.

84 S 954. NET.....49.50

NEW "SUPER-12" MOBILE CONVERTER

MODEL 3261. (Not illus.). Compact, highly sensitive converter covering 75, 40, 20, 15, 11 and 10 meters, plus the 19 and 49-meter shortwave bands. An up-to-the-minute version of the popular "Super-6." Exceptionally easy to install. Requires no high-voltage B + or internal connections to auto radio. Operates directly from 12 v. DC (@12 amps). Has low drift, noise factor and image response. Utilizes low-noise RF stage with front-panel antenna trimmer, low-noise triode mixer and modified Clapp oscillator. Hi-impedance antenna switch for 40 and 75 meters. Output, 1430 kc. With all necessary cables. Gray case is 5 1/4 x 3 1/2 x 5 1/4". Shpg. wt., 5 lbs.

83 S 594. NET.....57.50

FM TUNERS

For mobile or fixed installations. Include squelch circuit. Easily connected to AM receiver. Require 150 v. DC at 14 ma; 6.3 v. at 1.8 amp. Size (HWD): 5 1/4 x 3 1/2 x 5 1/4". Shpg. wt., 5 lbs.

83 S 822. Model 3009. 30-40 mc.

83 S 823. Model 3010. 40-50 mc.

84 S 925. Model 3011. 88-108 mc.

83 S 824. Model 3012. 152-162 mc.

NET EACH.....69.50

MOBILE ACCESSORIES

MODEL 3001 NOISE CLIPPER. Greatly reduces ignition interference. Easily installed on any receiver with conventional diode 2nd detector. 2 x 4 x 1 1/2". Wt., 2 lbs.

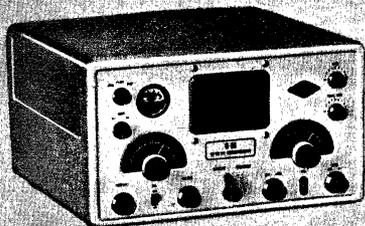
60 S 596. NET.....9.95

TYPE 3006 STEERING-POST BRACKET. For mounting Gonset converters or tuners on right or left side. Wt., 1 lb.

84 S 994. NET.....4.50

FIXED OPERATION

NEW Fixed-Station Transmitter-Receiver



A Complete 10-Meter Station

GONSET G-28

FIXED-STATION COMMUNICATOR

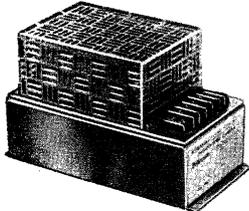
MODEL 3204. A complete 10-meter station—transmitter, receiver, power supply—in one neat, compact package. Just connect a mike, antenna and AC power, and you're on the air! Transmitter provides 50 watts AM input on 10 meters—dual-conversion receiver gives sensitive, selective coverage of 28-29.7 mc. Utilizes rugged quality construction throughout for outstanding performance.

Transmitter. Multiplier stages are ganged and tracked with highly stable, calibrated VFO. Includes front-panel socket for optional crystal control and VFO spotting switch. Integral speech clipping prevents modulation in excess of 100%. Panel meter can be switched to read RF amplifier plate or grid current, or modulator plate current. 6146 final has pi-network output for 50-75 ohm unbalanced loads; built-in low-pass filter permits TVI-free operation. 6AV6, 12BV7A, 6146, 12AX7, 2—6L6GB.

Receiver. Features dual-conversion, adjustable squelch, highly effective noise limiter and "S" meter. Includes a panel-mounted loudspeaker. Full-vision dial has planetary vernier drive for smooth, easy tuning. Tubes: 6BZ6, 6U8, 6BE6, 6BH6, 6AV6, 6AL5, 12AX7 and 6L6GB.

12 tubes plus 5U4GB rectifier. Size, only 7½x13x12½". For 110-120 v., 60 cycle AC. Shpg. wt., 35 lbs.
83 SU 587. NET. 299.50

NEW TELECOM TRANSISTORIZED POWER SUPPLY

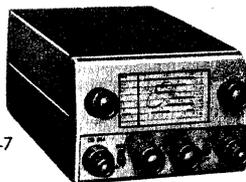


MODEL 2D11. Compact transistorized power supply—completely eliminates moving parts for high reliability, top efficiency and absence of RF interference. Ideal for use with mobile transmitters under 100 watts. Input: 12.6 volts DC @ 15 amps. Output: 500 volts DC @ 200 ma and 250 volts DC @ 100 ma from -22° F. to 104° F., continuous duty.

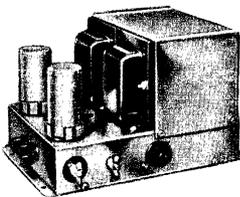
Complete electronic overload protection. Full-load specifications: regulation, less than 10%; ripple, less than 0.1%; efficiency, 75% minimum. 4¼x8x4". Shpg. wt., 4 lbs.
83 S 554. NET. 68.50

MODEL 2D12. (Not illus.). Designed for operation of mobile receivers, converters and low-power transmitters. Only 2x4½x2". As above, except: 3 amps input; 250 volts DC output at 100 ma from -22 to 122° F., continuous duty. 1 lb.
83 S 586. NET. 44.95

MULTI-ELMAC AMATEUR EQUIPMENT



PMR-7



M-1050



AF-67

MULTI-ELMAC

THE NAME HEARD "ROUND THE WORLD"

PMR-7 RECEIVER

Double-conversion superhet designed for outstanding mobile reception. Sensitivity exceeds that of many fixed-station receivers. Covers 160 through 10 meters and 540-1650 kc. Illuminated slide-rule dial has scales for each band.

1st IF is 2238 kc, 2nd IF is 262 kc. 2nd osc. is crystal controlled for maximum stability. Adjustable squelch operates on ½ µv. Variable beat frequency injection for SSB. Includes noise limiter, variable BFO, RF gain control, delayed AVC and individually shielded coils. Ten tubes—filaments operate from 6 or 12 v. 4½x7x9½". Less power supply and speaker. Shpg. wt., 11 lbs.
83 S 842. NET. 159.00

MODEL PSR-612 POWER SUPPLY. For above. 6 or 12 v. DC input. Size, 4½x4½x9½". Shpg. wt., 10 lbs.
83 S 843. NET. 34.00

Mounting rack available for PMR-7—write to Allied's Ham Shack.

M-1050 MOBILE POWER SUPPLY

Dual-vibrator mobile power supply for operation of both receiver and transmitter. Provides 3 voltages: 200 v. DC at 100 ma, 400 or 500 v. DC at 175 ma, and 200 or 250 v. DC at 70 ma. Oversize filters assure hash-free receiver power. Includes receiver muting relay. Tap for external antenna relay. Employs standard selenium rectifiers and vibrators. 70% efficiency. For 6 or 12 v. DC input. 6½x10x6". Wt., 13 lbs.
80 S 156. NET. 49.95

MODEL M-1051. As above, but in kit form.
83 SU 112. NET. 39.95

AF-67 "TRANS-CITER"

Highly versatile, precision-built, band-switching transmitter/exciter for mobile or fixed-station operation. 60 watts input on AM, CW or NBFM, 160 through 10 meters. Has a built-in, temperature-compensated VFO. Switch allows choice of VFO or crystal operation; socket holds 2 crystals. Complete 5-position metering. Includes full complement of controls. 6146 final with pi-network output. Requires 475 v. DC at 170 ma, 225 v. DC at 60 ma, and 6 or 12 v. for filaments. Takes high or low-impedance microphone; less mike. Size, 7x11½x11¼". Shpg. wt., 20 lbs.
98 SU 091. NET. 177.00

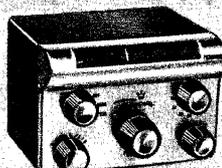
PS-2V 115V. AC POWER SUPPLY. For above. 7x11¼x8½". Shpg. wt., 30 lbs.
98 SU 760. NET. 49.50

CFS-1 CONNECTING CABLE. Connects PS-2V and AF-67. Shpg. wt., 8 oz.
98 S 761. NET. 4.75

Mounting rack available for AF-67—write to Allied's Ham Shack.

M-1470 POWER SUPPLY

(Not illus.) Similar to Model M-1050 at left. Dual-vibrator mobile/fix power supply for operation of both transmitter and receiver. Works from 12 v. DC or 110-120 v. 50-60 cycle AC. Provides 4 voltages: filtered and hash-free 200 v. at 100 ma for receiver, 150 or 225 v. DC at 70 ma with 400 or 500 v. DC at 175 ma for transmitter, and 12 v. AC at 5 amps (when supply operates on AC). Includes receiver muting relay. Employs standard selenium rectifiers. 60-70% conversion efficiency. Size, 6½x10x6". Shpg. wt., 13 lbs.
80 SU 159. NET. 69.95



ATC-1



TCR-2A

COMPLETE PORTABLE BC-AMATEUR RECEIVING COMBINATION

ATC-1 AMATEUR-BAND CONVERTER. Unique, transistorized ham-band converter! Entirely self-contained and self-powered, this tiny converter provides amazing performance on SSB, AM and CW in the 80 to 10-meter bands. Operates with any radio; connects instantly to TCR-2A matching receiver. Includes modified Q multiplier and BFO with variable injection. Has drum-type slide rule dial, break-in jack, high Q permeability-tuned coils. Less penlight cells. 3¼x4¾x4¼". Shpg. wt., 2½ lbs.
99 S 167. NET. 79.50

TYPE Z PENLIGHT CELL. For above. Three required. 1 lb., each, 2 oz.
53 J 031. NET EACH. 9c

TCR-2A ALL-TRANSISTOR RECEIVER. Versatile, ultra-compact portable receiver—complete broadcast-band coverage with a 7-transistor circuit and built-in speaker for full-toned, high-volume output. This light, rugged unit can be taken anywhere—use in your home, in a car, or as a personal portable. Provides optimum coupling to the ATC-1 for reception of the 80 through 10-meter amateur bands. Operates up to 200 hours on a single battery. Includes phone jack. Size is only 3¼x4¾x4¼". Less battery (below). Shpg. wt., 3½ lbs.
99 S 174. NET. 39.95

TYPE Z23 BATTERY. For above. 5 oz.
53 J 096. NET. 1.22



MORROW

QUALITY AMATEUR EQUIPMENT



HARVEY-WELLS

MB-565



5BR-2



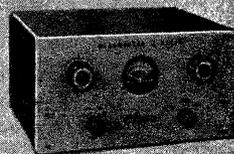
MB-6



T-90



R-9A



Z-Match

NEW MORROW MB-565 MOBILE TRANSMITTER

Ruggedly-constructed AM-CW mobile transmitter. Covers 80 through 10 meters; 90 watts input on CW, 60 on AM. Excellent companion to the MB-6 below, or can be used for outstanding individual performance. VFO has drum-type gear-driven tuning assembly. Switch selects VFO or crystal operation. Uses carbon, crystal or dynamic mike. Pi-network output matches 50-75 ohm loads; built-in antenna relay. Less power supply (below), mike. Requires 6 or 12 v. AC or DC for filaments, 250 v. DC @ 75 ma, 300-600 v. DC @ 200 ma. $4\frac{1}{2} \times 11\frac{1}{8} \times 7\frac{1}{4}$ ". Shpg. wt., 16 lbs.

77 SU 700. Only \$24.95 Down. NET..... 249.50

NEW MORROW MB-6 MOBILE RECEIVER

Deluxe dual-conversion mobile receiver—covers 80 to 10 meters. Provides superb performance with MB-565 above, or can be used alone for excellent mobile reception. Sensitivity 1 μ v. for 17 db S/N ratio on 10 meters. Temperature-stabilized for SSB. Drum-type dial with gear-driven mechanism. Has 100-kc calibrator, adjustable squelch, crystal-controlled 2nd mixer, RF gain control, noise limiter and antenna trimmer. 13 tubes (many dual-purpose). Less speaker, supply (below). $4\frac{1}{2} \times 11\frac{1}{8} \times 7\frac{1}{4}$ ". Wt., 14 lbs.

77 SU 701. Only \$23.95 Down. NET..... 239.50

MORROW 5BR-2 MOBILE CONVERTER

Superior mobile converter for 80 to 10 meters. Separate, individually tuned coils on each band. All bands spread over full length of slide-rule dial. Temperature compensated. 10 high-"Q" RF and mixer coils; 5 adjustable oscillator coils. Requires 200-225 v. DC at 20 ma and 6 or 12 v. for filaments. $4 \times 5\frac{1}{2} \times 7$ ". Complete with mounting bracket and cable. Shpg. wt., 10 lbs.

99 S 133. Only \$9.00 Down. NET..... 89.95

POWER SUPPLIES AND ACCESSORIES

92 SU 346. RTV-630 12 VDC Supply. Supplies all power for MB-6 and MB-565. $5\frac{1}{2} \times 11\frac{1}{8} \times 6\frac{3}{4}$ ". Shpg. wt., 20 lbs. NET..... 119.95

77 S 702. 010-020. RTV connecting cables. 1 $\frac{1}{2}$ lbs. NET..... 12.85

92 S 334. RVP-260B 6/12 VDC Supply. Supplies MB-6 and exciter of MB-565. $5\frac{1}{4} \times 9\frac{1}{4} \times 3\frac{3}{8}$ ". 9 lbs. NET..... 49.95

92 SU 335. TV-600A 6/12 VDC Supply. For final and modulator of MB-565. $5\frac{1}{4} \times 11\frac{1}{8} \times 5\frac{3}{8}$ ". 17 lbs. NET..... 79.50

84 S 920. SH-7. Spkr. for MB-6. $5\frac{1}{2} \times 7\frac{7}{8} \times 3\frac{1}{2}$ ". 3 $\frac{1}{2}$ lbs. NET 11.50

84 S 933. GC-10. Gen. "hash" filter: 10 M. 1 lb. NET..... 4.55

84 S 911. GC-20. Gen. "hash" filter: 20 M. 1 lb. NET..... 4.55

BANDMASTER T-90 TRANSMITTER

Bandswitching, TVI-suppressed transmitter for mobile or fixed operation. Covers 80 to 10 meters—75 watts input on AM, 90 watts on CW. Performs excellently alone, or may be used with the identically styled R-9 receiver below. Built-in VFO uses stable voltage-regulated and temperature-compensated circuits. Provision for break-in keying and push-to-talk operation. Switch for initial tuning at reduced power, selector for 3 different excitation levels. Pi-network output matches wide range of load impedances. Takes carbon, crystal, or dynamic mike. Size $6\frac{3}{4} \times 12\frac{3}{8} \times 10\frac{1}{2}$ ". Less power supply and mike. Shpg. wt., 18 lbs.

99 SU 041. Only \$17.95 Down. NET..... 179.50

99 SU 043. APS-90 115 VAC Power Supply. For above. Size. $6\frac{3}{4} \times 12\frac{3}{8} \times 10\frac{1}{2}$ ". Shpg. wt., 35 lbs. NET..... 79.50

99 SU 044. VPS/T-90 Mobile Supply. For above, 6 or 12 VDC. Size. $6\frac{3}{4} \times 11 \times 6\frac{3}{8}$ ". Shpg. wt., 21 lbs. NET..... 89.50

BANDMASTER R-9A RECEIVER

Double-conversion receiver for 80, 40, 20, 15, and 11-10 meters. May be used for mobile operation (with power supply listed below), or for fixed operation with self-contained supply. Provides excellent performance with the identically styled T-90 transmitter above, or may be used individually for outstanding amateur-band reception. Has good sensitivity, selectivity and stability. All coils are slug-tuned, providing high "Q" circuits. Employs three tuned RF circuits and a separate oscillator coil for each band. IF frequencies are 1600 and 260 kc. Bandwidth: 4 kc at 6 db. 50-ohm nominal input impedance. 8 tubes, rectifier, regulator. $6\frac{3}{4} \times 12\frac{3}{8} \times 10\frac{1}{2}$ ". Less speaker. For 110-120 v., 50-60 cycle AC. Shpg. wt., 18 lbs.

99 SU 042. Only \$16.00 Down. NET..... 159.95

VPS-R9 MOBILE POWER SUPPLY. For above 6 or 12 v. DC. With cable, connector. $6\frac{3}{4} \times 7\frac{1}{2} \times 4\frac{3}{4}$ ". Shpg. wt., 12 lbs.

99 SU 045. Only \$3.05 Down. NET..... 30.50

BANDMASTER Z-MATCH ANTENNA COUPLER

A highly versatile, efficient antenna coupling and measuring device—combines an antenna matching network, 50-ohm dummy load and a meter to measure forward and reflected power. Covers 3.5 to 30 mc. Designed to match a 50-ohm input to reactive or non-reactive loads, 10 to 2500 ohms. 500-watt maximum transmitter input. $6\frac{3}{4} \times 12\frac{3}{8} \times 11\frac{1}{2}$ ". Shpg. wt., 16 $\frac{1}{4}$ lbs.

99 SU 050. Only \$8.90 Down. NET..... 89.00

ECO TRANSMITTING EQUIPMENT

MODEL 720-K TRANSMITTER KIT. Compact, streamlined bandswitching transmitter for 80 through 10 meters. Design is highlighted by extremely conservative component ratings and exceptional stability. Power input, 90 watts. Complete sealing of cabinet and careful by-passing and filtering of all input and output leads provides effective TVI suppression. Oscillator is keyed to permit break-in. 6146 final is protected by clamper. High-efficiency pi-network matches 50-1000 ohm loads. $5 \times 15 \times 9$ ". For 110-120 v. 60 cycle AC. Wt., 27 lbs.

83 SU 056. \$8.00 Down. NET..... 79.95

77 SU 706. As above, wired. NET. 119.95

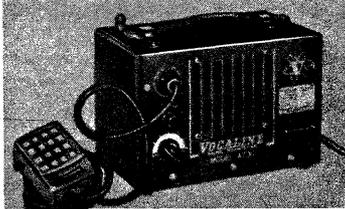
MODEL 730-K MODULATOR KIT. For above. Delivers 50 watts of undistorted audio. Multi-impedance output. Inputs for crystal mike and phone patch. $6 \times 14 \times 8$ ". Less cage. For operation from 110-120 v. 60 cycle AC. Shpg. wt., 21 lbs.

83 SU 057. \$5.00 Down. NET..... 49.95

77 SU 707. As above, wired. NET. 79.95

77 S 708. Cover for 730-K. 5 lbs. NET 4.50

VOCALINE AT-30 TRANSCEIVERS



Compact, low-cost transceiver for 421-449 mc. 0.3 watts AM RF output. Push-to-talk. Built-in speaker. $6\frac{3}{4} \times 6 \times 9$ ". With AC line cord, DC line cord, ceramic mike and antenna. For 110-120 v., 50-60 cycle AC or 6 v. DC. Shpg. wt., 8 lbs.

92 SU 376. Only \$9.20 Down. NET 92.00

MODEL AT-30. As above, but for 110-120 v. AC or 12 v. DC.

92 SU 377. Only \$9.20 Down. NET. 92.00

NEW ECO TRANSMITTER



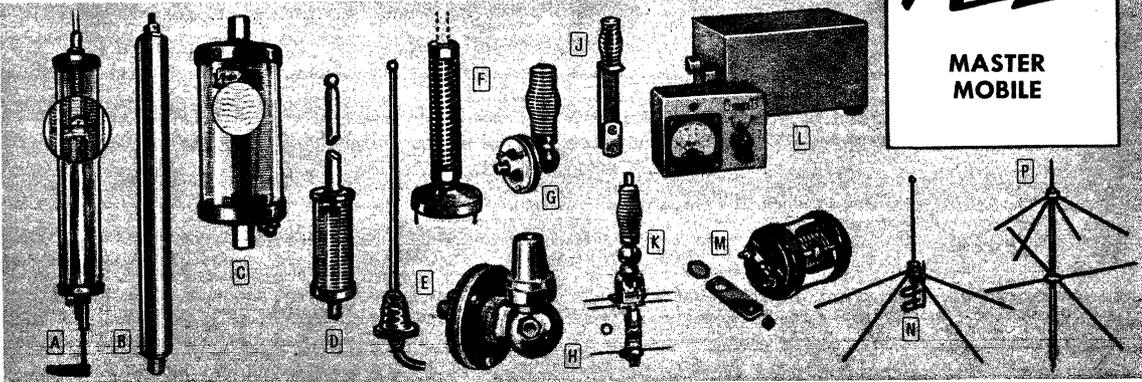
720-K

- In Kit or Wired Form
- Completely TVI Suppressed
- Matches 50-1000 Ohm Loads
- No Shock Hazard at Key Terminals
- "Novice Limit" Calibration On Meter

MOBILE-VHF ANTENNAS AND ACCESSORIES

Master

MASTER MOBILE



ANTENNA LOADING COILS

A 760 "DELUXE ALL-BANDER". Continuously variable loading coil with staggered turn spacing. Covers 10 to 75 meters. Cam contact selects any spot on any turn for precise tuning. For use with Model 88-60 whip (at right) or similar units. Includes lock. 2 3/4 x 13 3/4". Shpg. wt., 2 1/2 lbs.
92 S 516. NET.....14.65

666 "ALL-BANDER". Similar to 750 loading coil above, except employs vertical roller for quick adjustment (selects any pair or adjacent turns). Shpg. wt., 1 1/2 lbs.
97 S 167. NET.....14.65

B B-1080 "SLIM-JIM". All-band base-loading coil. Covers 10 through 80 meters, continuously. Use with 96" whip—slide in or out of coil to loading point and lock in place. 1 3/4 x 19". 3/8" dia. stud. 4 1/2 lbs.
83 SX 590. NET.....17.59

C 900 "ARISTOCRAT". Loading coil tapped for 10, 15, 20, 40 and 75 meters. Plug at base connects antenna to desired tap. Use with 88-60 whip (at right) or similar units. 3x6". Shpg. wt. 1 1/2 lbs.
83 S 588. NET.....14.65

999 "VICTORY". As above, but for top efficiency on 10, 15 and 20 meters only. 3x 3 1/4". Shpg. wt., 1 1/2 lbs.
83 S 595. NET.....14.65

D "ULTRA-HI-Q" COILS. Newly developed loading coils for top single-band performance. Feature a "Q" of well over 515! Use with 88-60 whip (at right) or similar units. Shpg. wt., 1 lb.

Stock No.	Band	Size	NET EACH
92 S 352	80	2 1/2 x 8"	5.14
92 S 353	40	2 1/2 x 5"	
92 S 354	20	2 1/2 x 3"	

WHIP ANTENNAS

97 CU 155. 100-96S 96" WHIP. Stainless steel. 3/8" dia. stud. Less mount. Shpg. wt., 2 lbs. Express or truck only. NET.....5.14

97 SX 166. 100-60S 60" WHIP. Same as 100-96S, but 60". 2 lbs. NET.....4.85

JOHNSON "WHIPLoad 6" COIL

MODEL 250-26. Bandswitching base-loading coil for 10-meter whips. Features air-wound, high-Q construction. Covers 10 through 75 meters. Continuous tuning on 75 meters, no tuning necessary on other bands. Permanently protected against weathering by sturdy fiberglass housing. Shpg. wt., 3 lbs.
98 S 396. NET.....16.95



BELL CARBON MICROPHONES

MODEL CM-15C. Deluxe, hand-held communications-type carbon mike. Response, 200-4000 cps. Single-button carbon with 85-ohm resistance. DPST push-to-talk switch for mike circuit and external relay. Black plastic case and 4-ft. cord. With mtg. bracket. Shpg. wt., 1 1/2 lbs.
94 S 898. NET.....7.79



MODEL CM-1CC. WITH RETRACTABLE CORD. As above, but with 5-ft. coiled cord.
94 S 899. NET.....9.75

98 CU 302. 9-96T LOW-COST 96" WHIP. Cadmium plated. 3/8" dia. stud. Less mount. Wt., 3 lbs. Express or truck only. NET.....3.67

88-60 WHIP. Highly versatile antenna supplied in two sections (36" and 60"). Comes apart to allow insertion of coils. Serves as 10-meter whip without coils. 3/8" dia. stud. Less mount. Shpg. wt., 6 lbs.
98 SX 359. NET.....9.70

VHF MOBILE ANTENNAS

E 97 SX 148. 113 VHF ROOF-TOP ANTENNA. For 140-165 mc. 3/8" hole. 10' coax cable. 1 lb. NET.....3.88

92 SX 355. 613 VHF ROOF-TOP ANTENNA. As above, but with locking antenna base connector. NET.....4.85

97 SX 149. 114 COAXIAL ANTENNA. For 140-165 mc. Provides an extremely low radiation angle from a closed or open vehicle, or a fixed location. 10' coax cable. 3/8" dia. stud. Shpg. wt., 5 lbs. NET.....9.75

MOUNTS AND SPRINGS

F 92 S 222. "MASTER-FLEX-R". Strain-relief spring. Mounts above coil; supports whip. 3/4 x 4 1/2". 1 lb. NET.....1.91

Mounts are for antennas with 3/8" dia. threaded stud. Av. shpg. wt., 3 lbs.

G 97 S 151. 232C MOUNT. Double-taper spring swivel-base body mount; with coax fitting. NET.....8.57

97 S 157. 232XC MOUNT. Heavy-duty version of 232C. NET.....9.65

98 S 304. 232XSSC MOUNT. Heavy-duty stainless steel version of Model 232C listed above. NET.....14.65

98 S 300. 132JC MOUNT. Economy version of 232C. NET.....5.07

H 92 S 224. 321 MOUNT. Same as 232C at left, but spring. NET.....7.79

J 98 S 301. 140J MOUNT. Economy bumper mount. NET.....4.09

97 S 160. 140X MOUNT. Heavy-duty version of 140J. NET.....7.79

New Mark "Heliwhip" and Mosley "Trapmobile" Antennas

R HW "HELIIWHIP" SERIES. Fiberglass-molded, continuously loaded miniature whips for all amateur bands. Resemble standard auto antennas. Employ variable pitch spiral conductor winding along a fiberglass rod—provides essentially uniform current distribution for maximum radiation efficiency. For mounting on fender, trunk lid, etc. *Bandwidth for 2:1 VSWR. †Not illus. Fit standard mounts or HWM-1 flat surface mount (below).

Stock No.	Type	Band	*Kc	Ft.	Lbs.	EACH
92 SX 322	HW-10	10 M	1000	4	3/4	15.00
92 SX 323	HW-15	15 M	500	4	1	15.00
92 CX 324	HW-20	20 M	250	6	1 1/4	18.00
92 CX 325	HW-40	40 M	100	6	1	18.00
92 CX 326	HW-80	80 M	60	6	1	18.00
92 CX 333	†HW-3	10-15-20M		6	3	27.50
92 S 327	HWM-1	Molded base mount			1/2	7.50

S MA-3 "TRAPMOBILE". Streamlined 3-band mobile whip—requires no switching or retuning to change bands. Operates with top radiator efficiency and low SWR over the full width of each band. Employs base coil and catch trap to automatically cover 10, 15 and 20 meters. Use with standard base loading coils to cover 40 and 80. Stainless steel whip section. Fits std. mounts. 92 1/4". Shpg. wt., 6 lbs.
92 CX 332. NET.....19.55

K 92 S 361. 444 MOUNT. Heavy-duty bumper mount with spring and swivel base. Chain mounting. NET.....17.44

92 S 362. 445 MOUNT. As above, but less spring and swivel. NET.....17.99

ACCESSORIES

97 SX 154. 92 18" WHIP EXTENSION. 3/8" dia. stud on one end and collet at other. Shpg. wt., 1 lb. NET.....3.43

92 S 223. 10-H "TENNAHOLD". Ties down end of whip to clear garage roofs, etc. Fastens to car gutter. Wt., 3 oz. NET.....9.96

83 S 591. 295 "E-Z-OFF" ANTENNA CONNECTOR. Allows easy removal of whips or coils. Fits between mount (or coil) and whip or coil. 3/4" dia. stud. Wt., 1/2 lb. NET.....2.89

L MODEL 2495-6 "MASTER-MATCHER". Remote tuner for any mobile, loaded whip from 160-10 meters. Dashboard control of loading inductance for peaking antenna to any frequency in an amateur band. Field-strength meter on dash unit. Inductor box. 6 1/4 x 4 1/4". Dash control, 4 1/2 x 3 1/4 x 2 3/4". For 6 v. DC. Shpg. wt., 2 lbs.
92 S 220. NET.....24.45

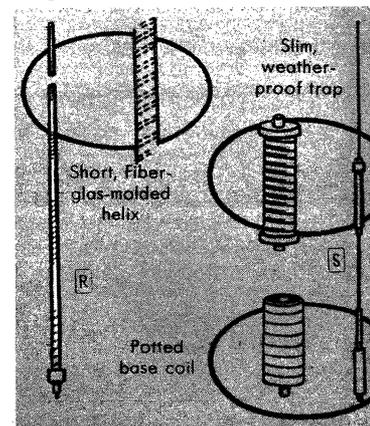
MODEL 2495-12. As above, but 12 v. DC.
92 S 221. NET.....24.45

M MODEL 825 "MICRO-Z-MATCH". Variable inductor for matching any coaxial cable to any mobile antenna. Mounts on standard coax fitting (requires Amphenol 83-11" adapter). Permits adjustment to minimum SWR. 4 µh. max. inductance. Micrometer-style adjustment. Shpg. wt., 2 lbs.
92 S 225. NET.....7.79

VHF GROUND-PLANE ANTENNAS

N GP-4 GROUND-PLANE. For 2 meters. 4 droop-type radials. Coax fitting. 52 ohms. Shpg. wt., 1 lb.
98 SX 356. NET.....5.83

P 300 "MASTER-PLANE". A highly effective 2-meter antenna. Features 4 drooping and 4 adjustable straight radials. With 3-ft. mast and coax fitting. 52-ohm impedance. Shpg. wt., 3 lbs.
98 SX 357. NET.....12.69



ROTATORS, ANTENNAS, ACCESSORIES

NEW! HY-GAIN TOP-VALUE ROTATOR SYSTEM

- Combination For Only \$149.95
- Holds In Winds Up To 100 MPH
- Easy-To-Read Light Indicator

RBX-1 "ROTO-BRAKE". Rugged, precision-made rotator-brake. Twin motor unit with stainless steel gears develops 780 in.-lbs torque—brake provides 10,000 in.-lbs braking torque. Rated to 1000 lbs downthrust. Mounts in towers with 10-18" between up-rights. Height: 9". Less cable (below). For 115-120 v., 50-60 cycle AC. *Side-mtg. kits available—write for prices.* Shpg. wt., 35 lbs. *Shipped by express or truck only.*

83 SU 691. \$10.00 Down. NET. . . . 99.95

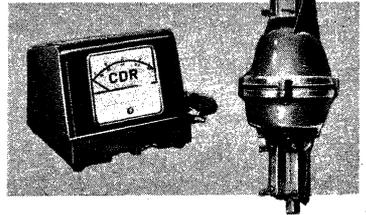
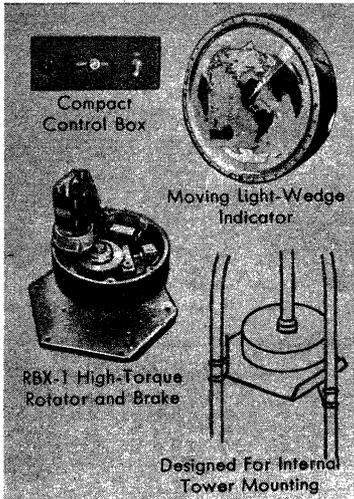
CONTROL SYSTEM. Consists of a translucent great-circle world map indicator and control box. Selsyn-controlled wedge of light rotates with beam. Use *only* with RBX-1 (above). For Central U.S.A. Indicator, 3½x18" dia. Wt., 3 lbs. *Express or truck.*

83 SU 692. \$5.00 Down. NET. . . . 50.00

83 SU 693. Above for E. Coast. NET 50.00

83 SU 694. Above for W. Coast. NET 50.00

49 W 474. 9-Con. Cable. For above system, 4 lbs. per 100'. NET PER FT. . . . 9c



CDR MODEL HAM-M ROTATOR

Heavy-duty rotator system for control of large antennas in high winds. Features rugged brake and motor with stainless steel gears and 98 ball bearings. Has end-of-rotation power cut-off. Vertical load rating over 1000 lbs—heavy plates distribute stresses. Indicator can be read without starting motor. Meter calibrated with compass points, and in 3° increments. 365 inch-lbs rotating torque; 3500 inch-lbs braking. Accommodates ¼ to 2" O.D. masts. Less cable (below). For operation from 115 volts, 60-cycle AC. Shpg. wt., 23 lbs.

92 SX 357. \$9.75 Down. NET. . . . 97.51

47 T 330. 100-Ft. Coil Belden 8448 8-Conductor Cable. For above. 4½ lbs. NET. . . . 6.12

Antennas and Accessories

COLLINS DIRECTIONAL RF WATTMETER

MODEL 302C-1. Precision-constructed wattmeter for measuring up to 1 kw forward and reflected power in 52-ohm coaxial transmission lines. Operates over the frequency range of 2 to 30 mc. Can be used to determine line SWR, transmitter power output, antenna bandwidth, line attenuation and other system performance characteristics. Consists of directional coupler and meter unit.

Presents negligible insertion losses when left in transmission line as a monitor. Has 100 and 1000-watt scales, accurate to ±10%. Coupler introduces only 0.1% power loss and 1.05:1 SWR; will take up to 2 kw forward power. Size: meter, 3x3½x6½"; coupler, 2x2½x4". Shpg. wt., 5 lbs.

94 S 859. \$9.20 Down. NET. . . . 92.00

DOW-KEY ANTENNA SWITCH

MODEL DKC-TR. Matches 52 and 72-ohm lines without insertion loss. Features instant recovery, plus a gain of 0 db at 60 mc to +6 db at 3.5 mc. Rated 1 kw, AM modulated. Can be mounted at transmitter output with DKF-2 connector (below). Requires 125-150 v. DC at 6.2 ma, 6.3 volts at 0.45 amps. 1½x1½x2¾". 8 oz.

75 S 139. NET. . . . 12.50

75 P 136. DKF-2 Double Male Connector. Shpg. wt., 6 oz. NET. . . . 1.45

COLLINS PHONE PATCH

MODEL 189A-2. For phone patch operation with the KWS-1, 75A-4, KWM-1, 32S-1 and 75S-1. May be used with other receivers having a 500-ohm output, and other transmitters having a 600-ohm phone-patch input. Utilizes a hybrid transformer for VOX operation. Only two connections to phone line are necessary. Above-mentioned Collins units have terminals for connection to phone patch. 5x4½x3¾". Wt., 3 lbs.

94 S 860. \$6.00 Down. NET. . . . 60.00

DRAKE HYBRID PHONE PATCHES

MODEL 584-A. High-performance hybrid phone patch for automatic operation with any voice-operated transmit-receive system. Allows nulling receiver output more than 20 db below telephone at transmitter input. Takes crystal mike. Controls: mike/patch selector, transmitter input, receiver output, line null, 4-ohm receiver input, high-impedance transmitter output. Supplied complete with phone plug and mike connector. 4¾x5x5". Shpg. wt., 4 lbs.

77 S 652. \$3.50 Down. NET. . . . 34.95

MODEL 584-C. As above, but for quick connection to Collins KWS-1, 75A-4, KWM-1, 32S-1, 75S-1.

77 S 653. \$3.50 Down. NET. . . . 34.95

MILLEN ANTENNA BRIDGE

MODEL 90672. Accurate, sensitive antenna bridge for measuring 5 to 50-ohm unbalanced impedances and 20 to 2000-ohm balanced impedances (with coils below). Use with RF inputs to 150 mc. Special differential capacitor provides high accuracy. 3¾x3¾x5½". Shpg. wt., 2½ lbs.

83 S 834. \$4.50 Down. NET. . . . 45.00

BALUNS. For coupling antenna bridge to balanced impedance, or for coupling transmitter with unbalanced output to balanced line. 4:1 ±5%. 80-meter coil rated 150 w. CW, others 420 w. CW (300-ohm line). 3¾x2" max. dia. Av. shpg. wt., ½ lb.

No.	Type	Band	EACH
83 S 695	46672-10	10-11 M	7.50
83 S 696	46672-15	15 M	7.50
83 S 697	46672-20	20 M	7.50
83 S 698	46672-40	40 M	7.50
83 S 699	46672-80	80-75 M	7.50

AMPHENOL FOLDED DIPOLES

Folded-dipole antennas cut for most popular amateur bands. Excellent broadband characteristics. Antenna sections use high-strength 300-ohm twin-line with copper-clad steel conductors. May be cut for short-wave, FM or other bands. (Use 20-meter dipole for cutting to 15-meter length, 40-meter dipole for the 9 or 12-mc SW band.) Supplied with T-block assembly and 75 feet of twin-line feeder.

No.	Type	Band	Feet	Lbs.	EACH
98 S 318	139-010	10	18	2	5.23
98 SX 319	139-020	20	35	3	5.88
98 SX 320	139-040	40	70	4	7.64
98 SX 321	139-080	80	135	5	11.02

JOHNSON VIKING "MATCHSTICK"

High-efficiency, vertical antenna for 80-75, 40, 20, 15 and 11-10 meters. Features motor-driven, remote-controlled switch for matching antenna length to band selected. Radiator is 35 feet long—made of durable, hard-tempered, 2" O.D. aluminum. Pre-adjusted at factory. Low SWR on all bands—less than 2:1. Impedance is 52 ohms. For transmitter inputs up to 1 kw. With base, base insulator, matching unit, control box and nylon guy ropes. Less control cable and radials. Control box size, 3¼x3¾x3¾". For 110-120 volts, 60 cycles AC. Shpg. wt., 47 lbs. *Express or truck only.*

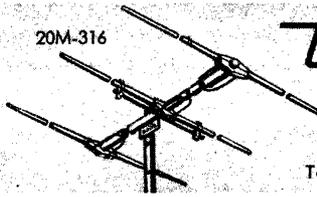
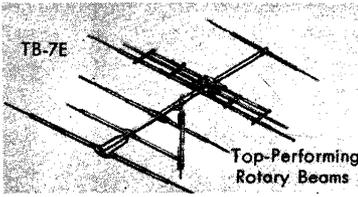
92 CZ 234. Only \$12.95 Down. NET 129.50

CONTROL CABLE FOR "MATCHSTICK" Belden #8742. Shpg. wt., 3½ lbs. per 100'.

48W 892. PER FT. 5c PER 100 FT. . . . 3.82

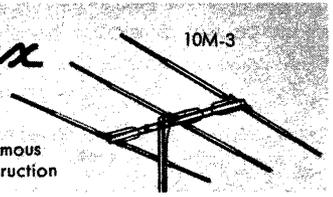


AMATEUR BEAMS, VERTICALS AND TOWERS



telrex

Employ Famous
Telrex Construction



TELREX BEAM ANTENNAS

MODEL TB-7E "TRI-BAND." Rugged, full-size beam for outstanding performance on 10, 15 and 20 meters. Employs only one transmission line—uses no coils or capacitors. Operates with 3 elements on 10 meters, 2 elements on 15 and 20. 5.3 db gain and 19 db F/B ratio achieved on 15 and 20 meters, 7 db gain and 22 db F/B ratio on 10. Fanned dipole matches 52-ohm coaxial line—presents better than 1.3:1 VSWR. Will handle 2 kw. Built of heavy steel and aluminum to withstand hurricane-force winds. Has gusset mounting plate for 2" masts. Boom: 14"x2" O.D. Turning radius: 18 ft. 56 lbs. *Express or truck only.*
92 CZ 358. \$15.80 Down. NET...158.00

MODEL 20M-316 20-METER BEAM. Medium-spaced 3-element array designed to meet rigid commercial specifications. Coaxial half-wave balun insures balanced radiation pattern and minimum F/V. Has taper-swaged elements for minimum wind drag. Includes stainless steel fastenings and hairpin-resonated elements. Provides 8.7 db gain and 24 db F/B ratio. Has best signal-to-noise and signal-to-interference ratios ever achieved in a unit of this kind for amateur communications. Matches 52-ohm line. Gusset mounting plate fits 2" masts. Boom: 18"x2" O.D. Turning radius: 19 ft. Shpg. wt., 43 lbs. *Express or truck only.*
92 CZ 272. \$13.00 Down. NET...130.00

SINGLE-BAND BEAMS. All-aluminum beams for 10, 6 and 2 meters—designed to withstand high winds and icing. Precision-tuned and matched for optimum performance. Employ coaxial half-wave baluns to match 52-ohm line. First numeral in type number indicates frequency band, second numeral number of elements, F/B ratio and gain are given in db. L is boom length in feet. R is turning radius in feet. *Express or truck only.*

No.	Type	F/B	Gain	L	R	Lbs.	EACH
91 CZ 994	10M-3	26	8.5	9	8½	14	39.50
92 CZ 250	6M-3	26	8.8	6	6	7	16.25
92 CZ 252	6M-6	22	12.7	23½	13	20	57.50
92 CZ 273	2M-3	18	9.4	2¾	3	2¼	5.95
92 CZ 273	2M-6	22	12.7	8½	5½	4	12.50

NEW HI-GAIN ANTENNAS

TRI-BAND ROTARY BEAMS. Cover 10, 15 and 20 meters—employ aluminum-alloy elements, galvanized steel booms and compact, sealed traps. Match 52-ohm line. Full-size "Trap-Tribanders" (group 152TG) feature a special triaxial gamma-match system for 1:1 SWR, with low SWR over each band. *8.3 db gain, 15-25 F/B; †5.8 db gain, 12-20 db F/B. "Mini-Tribanders" (group 152MT) present better than 2:1 SWR and have superior gain and F/B's. L is boom length. R turn. rad. 1-kw types take 2 kw P.E.P. *Express or truck only.*

Stock No.	Type	Elements	Watts	L	R	Shpg. Wt.	EACH
92 CZ 492-2	152TG-3*	3	1000	18'	18'3½"	63 lbs.	99.75
92 CZ 491-2	152TG-2†	2	1000	7'	15'	43 lbs.	69.50
92 CZ 498-2	152MT-3	3	1000	12'	14'4"	57 lbs.	69.95
92 CZ 499-2	152MT-2	2	1000	6'	13'4"	34 lbs.	49.95

MULTI-BAND VERTICALS. Pre-tuned verticals for operating on up to 5 bands without switching. Weatherproof traps adjustable for phone or CW operation—26 AV uses decoupling sleeve. Less than 2:1 SWR, all bands. Match 52-ohm line. Take 1 kw, 2 kw P.E.P. Include base insulator and mast mount. Have: *†capacity hat, ‡ground plane, §side-mtg. kit.

Stock No.	Type	Bands (Meters)	Height	Shpg. Wt.	NET EACH
92 CZ 490	§*18-AV	10, 15, 20, 40, 80	38 ft.	20 lbs.	69.50
92 CX 488	*14-AV	10, 15, 20, 40	21 ft.	12 lbs.	27.95
92 CX 486	‡2-AV	10, 15, 20	14 ft.	9 lbs.	19.95
92 CX 485	‡6-AV	2, 6	5 ft.	7 lbs.	16.95

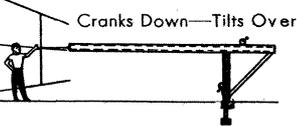
92 CX 489. Type 14-RMK Mounting Kit. For 14-AV. Includes 5-ft. mast, radial-guy wires, base mount and hardware. Shpg. wt., 5 lbs. NET..... 9.95
92 CX 487. Type 12-RMK. As above, but for 12-AV. NET..... 8.95

SINGLE-BAND BEAM ANTENNAS. Those for 20 through 6 meters feature triaxial Gamma-match and reactance-cancelling capacitor for 1:1 SWR, with low SWR over the entire band. Match 52-ohm coaxial line. 2-meter type employs adjustable Q-bar matching for 52 to 450-ohm line. 10, 15 and 20-meter beams have hot-dipped, galvanized steel booms. L is boom length, R is turning radius. *Items with "Z" in Stock No. shipped by express or truck only.*

Stock No.	Type	Band	Elements	Dg Gain	F/B Ratio	R	L	Shpg. Wt.	EACH
92 CZ 484	203G	20M	3	8.5	24	19'2½"	17' 8"	50 lbs.	59.95
92 CZ 483	173G	15M	3	8.5	24	13'6"	11'10"	32 lbs.	34.95
92 CZ 482	103G	10M	3	8.5	24	11' 4"	8' 8"	21 lbs.	24.95
92 CX 481	65G	6M	5	10.5	26	7'1"	8' 8"	10 lbs.	15.95
92 CX 480	210	2M	10	12	30	5'5"	9' 4"	7 lbs.	12.95

92 CX 493. Stacking Bars. For 2—210 beams. Shpg. wt., 2 lbs. NET..... 3.95

E-Z WAY TILT-OVER TOWER



GRBS 50-60. This tower goes way up to snag DX, but can be cranked down for work on the antenna. Locks at heights up to 58 ft. Made of steel r 1 and structural pipe, electrically welded and galvanized. Mounts in 5-ft. deep hole without concrete—no guying. Will support full-sized beam in 50-mph. winds. Shpg. wt., 480 lbs. *Specify rotator to be used (allow \$20.00 additional for expanded mount for CDR, Telrex 200 or rotators of similar size). Express or truck F.O.B. Tampa, Fla., or Chicago, whichever is nearer. Send full remittance on cash orders—no C.O.D. We can supply E-Z Way Towers from 40' to 120'—write for details.*
92 SZ 246. \$29.50 Down. NET...295.00

MOSLEY ANTENNAS

TA-33. High-gain, broadbanded, 3-element beam—provides top performance on 10, 15 and 20 meters. Up to 8 db gain with 25 db, or better, F/B. Streamlined, weatherproof traps easily take 1 kw. 14' aluminum boom has full ½" wall thickness. Matches 52-ohm line, less than 1.1:1 SWR at resonance. Fits masts up to 1½". Turning radius, 15½ ft. Wt., 53 lbs. *Express or truck only.*
92 CZ 360. \$9.78 Down. NET.... 97.75

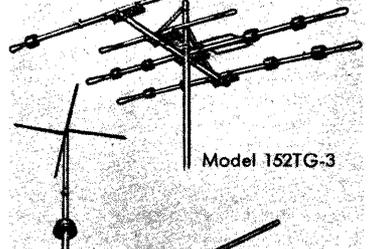
92 CZ 478. TA-33 "jr." 3-el. 300-watt beam. Up to 8 db gain, 25 db F/B. 12' boom. 14½" t.r. *Express or truck.* 28 lbs. NET..... 69.50

V-4-6. Cover 10 to 40 meters with this vertical—no bandswitching. Low SWR with flat response. Employs weatherproof traps and base-loading coil. Rated 1 kw. Aluminum tubing telescopes to 20 ft. With mtg. plate, hardware, nylon guy rope. 12 lbs.
92 CX 363. \$2.74 Down. NET.... 27.39

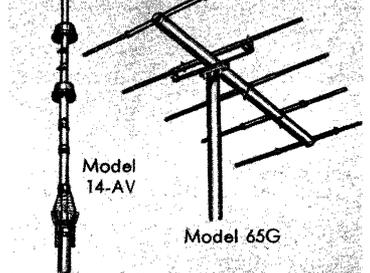
76 S 073. D-4BC. 80-75 meter base loading coil for above. 3 lbs. NET..... 14.65



Model 152TG-3



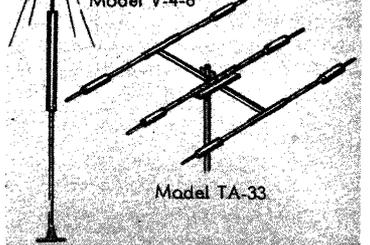
Model 14-AV



Model 65G

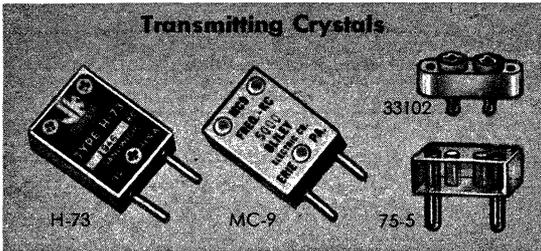


Model V-4-6

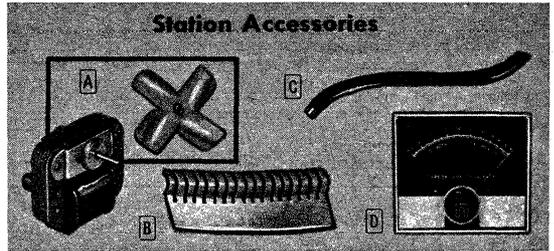


Model TA-33

POPULAR AMATEUR STATION ACCESSORIES



Transmitting Crystals



Station Accessories

JAMES KNIGHTS "STABILIZED CRYSTALS"

TYPE H-73 AMATEUR CRYSTALS. In black phenolic holder. Pin spacing .486". Pin dia., .093". Tolerance, $\pm 0.03\%$. Size, $1\frac{1}{2} \times 1\frac{3}{4} \times \frac{1}{8}$ ". Specify frequency. Supplied ± 5 kc (except * ± 30 kc) of frequency specified. †The H-73 crystals listed under Stock No. 99 S 257 are cut to the exact frequency you specify. Allow 30 days for delivery. Wt., 3 oz.

Stock No.	Frequency (mc)	Stock No.	Frequency (mc)	EACH
99 SS 266	3.5-3.7 & 3.75-4.0	99 SS 255	13.48-13.63*	2.95
99 SS 254	6.25-6.8	99 SS 268	14.0-14.8*	
99 SS 267	7.0-7.15 & 7.2-7.5	99 SS 294	3.7-3.75	
99 SS 259	8.0-8.23	99 SS 295	7.15-7.2	
99 SS 296	8.34-9.0	99 SS 253	1.8-2.0	
99 S 257	1.8-20.0 mc†				4.80

TYPE H-173 AMATEUR CRYSTALS. For oscillators with low crystal current. Pin spacing, .486". Pin dia., .050". $\frac{3}{4} \times \frac{3}{4} \times \frac{1}{4}$ ". Special order only. Allow 30 days for delivery. Specify frequency. Shpg. wt., 3 oz.

Stock No.	Frequency	Supplied Within:	EACH
99 S 263	21-40 mc	± 15 kc	4.95
99 S 264	40-54 mc	± 25 kc	5.95

TYPE H-93 FREQUENCY-STANDARD CRYSTALS. Black phenolic base; anodized aluminum can. Silver-plated crystal. Pin spacing, .486". Pin dia., .093". Tolerance, $\pm 0.005\%$. 2" long; $1\frac{1}{8}$ " dia. 3 oz.

99 S 284. 100 kc. 99 S 287. 1000 kc. NET EACH..... 6.95

SPECIAL-APPLICATION CRYSTALS. Size, $\frac{3}{4} \times \frac{23}{32} \times \frac{5}{16}$ ". Pin spacing, .486". Pin dia., .093". *3rd overtone type. Av. shpg. wt., 3 oz.

Stock No.	Type	Frequency	Tolerance	Application	EACH
99 S 286	H-17L	4.5 mc	$\pm 0.005\%$	TV alignment	4.80
99 S 258	H-17L*	27.255 mc	$\pm 0.03\%$	Radio control	4.95

BILLEY SPECIALIZED SERVICE CRYSTALS

TYPE MC-9 ALIGNMENT CRYSTALS. For use as marker in sweep generators or for calibration purposes. Phenolic holder, $1\frac{1}{8} \times \frac{1}{2} \times \frac{3}{16}$ ". Tol., $\pm 0.02\%$. Pin spacing, .486" ($\frac{1}{2}$ "); dia., .093". 3 oz.

99 S 143. 5.0 mc. 99 S 145. 10.7 mc. NET EACH..... 3.95

TYPE MC-7 SHIP-TO-SHORE CRYSTALS. Available from 2.0 to 3.5 mc. Tol., $\pm 0.02\%$. Holder is $1\frac{3}{8} \times \frac{1}{2} \times \frac{21}{32}$ ". Pin spacing is .750". Pin dia., .125" ($\frac{1}{8}$ "). Specify frequency or location of shore station. On special order only. Allow 30 days for delivery. 3 oz.

99 S 165. NET..... 7.50

MILLEN LOW-LOSS STEATITE CRYSTAL SOCKETS

Phosphor-bronze contacts; tinned lugs. Av. shpg. wt., 2 oz.

Stock No.	Type	Pin Spacing	Pin Diameter	NET EACH
72 H 035	33102	.487"	.094"	36¢
72 H 075	33302	.487"	.050"	24¢
72 H 029	33002	$\frac{3}{4}$ "	.125"	36¢

MOSLEY ADAPTERS

TYPE 75-5 ADAPTER. Adapts $\frac{3}{4}$ "-spaced holders to .486" sockets. 72 C 707. NET..... 36¢

TYPE 5-75 ADAPTER. Adapts .486"-spaced holders to $\frac{3}{4}$ " sockets. 72 C 708. NET..... 36¢

A TUBE COOLING MOTOR AND FAN. Extends tube life by keeping envelope and seals cool. Permits more complete shielding of RF amplifiers, etc., without depending on convection cooling. Shaded-pole induction motor, 2400 rpm, $2\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{8}$ ". 4-blade fan, dia., $2\frac{1}{2}$ ". For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., $1\frac{1}{4}$ lbs. 72 P 715. NET..... 2.99

B EIMAC CONTACT FINGER STOCK. Silver-plated alloy stripping. Makes excellent contact; prevents RF leakage through cabinet doors. Secured mechanically or by soldering. 12 oz. 42 P 086. 3' long; $1\frac{1}{2}$ " wide. NET..... 4.95
42 P 087. 3' long; $\frac{3}{16}$ " wide. NET..... 5.40
42 P 088. 3' long; $1\frac{3}{8}$ " wide. NET..... 6.00

C AMPHENOL TYPE 214-076 TRANSMITTING TWIN-LINE. 300-ohm air-core tubular. 7/26 copper conductors. Rated 1 kw RF. Shpg. wt., 100 ft., $3\frac{1}{2}$ lbs. 100 ft. minimum. 49 TX 416. 100-ft. coil. NET..... 6.23
49 W 409. Over 100 ft. Per 100 ft..... 6.23

AMPHENOL 214-023 TRANSMITTING TWIN-LINE. 75 ohm. Handles up to 1 kw RF power. Propagation factor, 71%. Attenuation: 1.40 db per 100 ft. at 28 mc. Shpg. wt., 100 ft., 4 lbs. 49 W 495. NET PER FOOT..... 7c

D HALLICRAFTERS "S" METER KIT. An easily installed "S" meter for panel mounting. For use with Hallcrafters S-40B, S-20R, S-40A, SX-62, S-77, S-77A, S-85, etc., as well as other receivers. Can be installed in any RF or IF stage with AVC action. $3\frac{1}{4} \times 2\frac{3}{4}$ " meter has black dial with white markings. Two scales; has microvolt scale calibrated from 0-1000K; "S" unit scale is calibrated to 80 db over S9. Requires $2\frac{1}{2}$ "-diameter round hole for meter barrel and four $\frac{1}{8}$ " holes for mounting studs. Can be separately mounted in individual meter case (see page 238). Kit consists of 5.0 milliamper meter, 500-ohm potentiometer for electrical zero-set, one 82-ohm $\frac{1}{2}$ -watt 10% resistor, one 330-ohm $\frac{1}{2}$ -watt 10% resistor, and instructions. Shpg. wt., 1 lb. 99 S 740. NET..... 12.00



TRIPLET 3256 FREQUENCY METER. Bandswitching—covers 80, 40, 20, 15 and 10 meters. Checks fundamental frequency of oscillating circuits, parasitics, harmonics, neutralization, spurious RF, and AM modulation. Germanium crystal and DC milliammeter. Direct panel calibration. Gray enamel finish. Case $7\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{4}$ ". Shpg. wt., 1 lb. 66 F 005. NET..... 19.11



BUD FCC-90A FREQUENCY CALIBRATOR. Consists of 100-kc crystal oscillator, trimmers, built-in power supply. Produces 100-kc signals across all amateur band through 30 mc. A valuable station accessory—marks band edges. Output lead attaches to antenna post of receiver. $5\frac{1}{4} \times 3\frac{1}{2} \times 2\frac{1}{4}$ ". For operation from 105-125 volts, 50-60 cycle AC, or DC. Shpg. wt., 2 lbs. 73 S 043. NET..... 20.07

SWR Indicators

M. C. JONES MODEL 261.1 "MICROMATCH" ANTENNA COUPLER. For use with Model 262 indicator for measuring RF power and VSWR. Rated for 1 kw at 1:1 VSWR. 52-ohm, coaxial UHF type connectors. Range: 5-225 mc. Less than 0.1 db power loss. 3x $4\frac{3}{4}$ ". Shpg. wt., 1 lb. 99 S 117. NET..... 22.50

MODEL 262 INDICATOR. Measures relative power, forward or reflected; 0-10-100-1000 watts. $4\frac{1}{2} \times 4\frac{1}{2} \times 4\frac{3}{8}$ ". Shpg. wt., 2 lbs. 99 S 118. NET..... 14.50

UNIVERSAL SERVICE MODEL KW-4M 52-OHM COAX RATIO METER. New SWR indicator that shows you SWR at all times. Can be permanently installed in line to any coax fed antenna or antenna tuner. Frequency range: 2 to 200 mc. Power range: 10 to 1000 watts. Shpg. wt., 5 lbs. 94 S 885. NET..... 45.00
94 S 886. As above, but 72-ohm. NET. 45.00

General Crystal All-Band

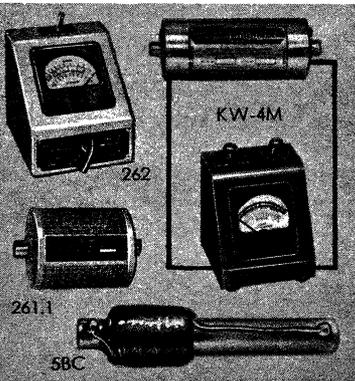
Antennas and Coils

All-band loading coils and antennas. Permit operation on 80 through 10 meters with one 109-ft. dipole and untuned feeder. SWR is 1:1 or better when operated within 100 kc of resonance. Peaked for either CW or phone bands. *Transmitter input.

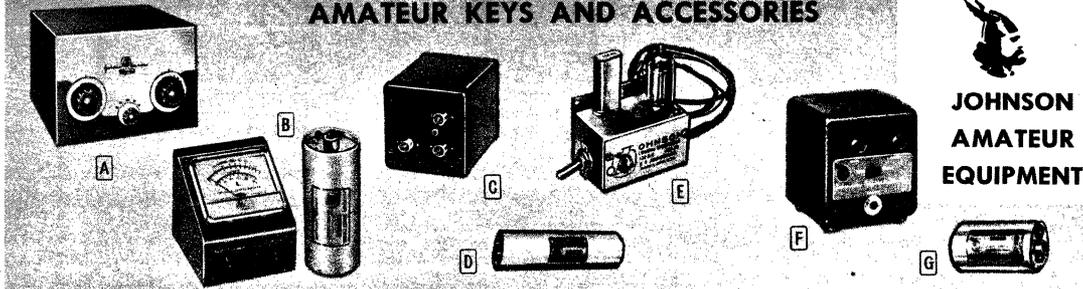
COIL SETS. Complete with instructions.

Stock No.	Type	Application	Wt.	Per Pr.
83 S 888	5BC-F	* $\frac{1}{4}$ kw phone	2 lbs.	12.50
83 S 889	5BC-C	*1 kw CW	2 lbs.	12.50
83 S 886	HC-5F	*1 kw phone	3 lbs.	19.95

COMPLETE ANTENNAS. Wired and tested. Include copperclad wire, all insulators, coil set, 88-ft. 72-ohm twin lead. Overall length of dipole, 111 ft. Peaked for phone bands. TYPE 58A-F. $\frac{1}{4}$ -kw input. Wt., 10 lbs. 92 C 233. NET..... 27.50
TYPE HA-5F. 1 kw input. Wt., 11 lbs. 92 C 226. NET..... 33.95



AMATEUR KEYS AND ACCESSORIES



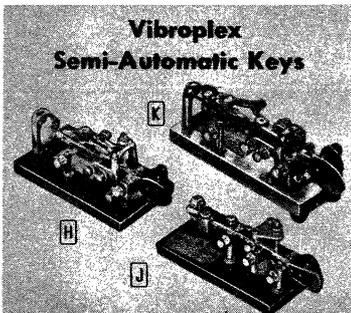
**JOHNSON
AMATEUR
EQUIPMENT**

Johnson Accessories

- A** MODEL 250-23 "MATCHBOX" ANTENNA COUPLER. For 80 through 10. Matches balanced antennas from 25 to 1250 ohms and unbalanced or single wire-antennas from 25 to 3000 ohms. Nominal input impedance 52 ohms, rated at 275 watts. Built-in transmit-receive relay. Has adjustment for matching antenna to receiver. Coaxial input. $9\frac{7}{8} \times 10\frac{1}{2} \times 7\frac{7}{8}$ ". Wt., 11 lbs.
99 SX 026. NET.....54.95
- MODEL 250-30 KILOWATT "MATCHBOX". Similar to above, but rated at 1000 watts. Handles unbalanced lines from 50 to 1200 ohms, balanced lines from 50 to 2000 ohms. Includes time delay system for relay, providing "fast-make, slow-break" action. $17\frac{1}{2} \times 12\frac{1}{2} \times 10\frac{1}{8}$ ". Wt., 27 lbs.
99 SZ 016. NET.....124.50
- B** MODEL 250-37 DIRECTIONAL COUPLER. For continuous monitoring of SWR and relative power in 52-ohm lines. Rated 1 kw, 1.7-150 mc. Use with multimeter, or indicator below. $2\frac{5}{8} \times 6\frac{1}{4}$ ". 2 lbs.
92 S 380. NET.....11.75
- 250-38 INDICATOR. $4\frac{9}{16} \times 4\frac{1}{4}$ ". 4 lbs.
92 S 379. NET.....25.00

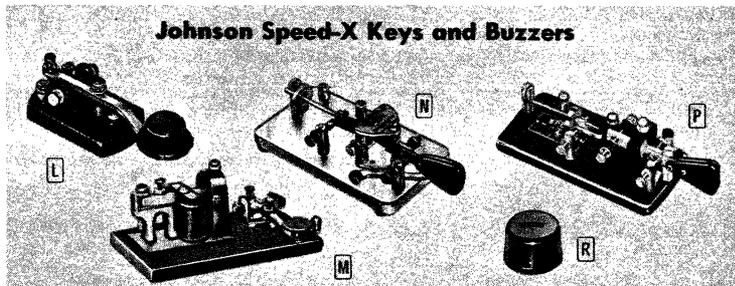
- C** MODEL 250-39 T-R SWITCH. Switches antenna from receiver to transmitter electronically. Rated at 4000 watts peak power. Uses 6BL7 (supplied) for improved receiver isolation. Broadband, double-gated circuit requires no tuning. Coax fittings. Has nylon tip-jack for connecting scope to internal RF probe. $4\frac{3}{8} \times 4\frac{3}{8} \times 5\frac{5}{8}$ ". For 110-120 v., 50-60 cycle AC. Wt., 5 lbs.
94 S 858. NET.....27.75
- D** MODEL 250-20 LOW-PASS FILTER. TVI filter with 4 shielded sections. Handles 1 kilowatt, 100% modulated. 75 db or more attenuation of harmonic and spurious frequencies above 54 mc—insertion loss is less than 0.25 db. Coax connectors. Impedance: 52 ohms. $9 \times 2\frac{5}{8}$ " dia. Shpg. wt., 3 lbs.
98 S 055. NET.....14.95
- E** MODEL 250-28 CRYSTAL CALIBRATOR. Accurate and stable 100-kc crystal standard. Produces 100-kc check points up to 55 mc. With 6BH6 tube, crystal, cable and extension leads. $3\frac{3}{8} \times 2\frac{1}{2} \times 1\frac{1}{2}$ ". Requires 6.3 v. @ .15 amp and 150-300 v. DC @ 2 ma. Shpg. wt., 1 lb.
99 S 039. NET.....17.95

- F** MODEL 250-25 SIGNAL SENTRY. For monitoring of phone or CW transmissions on all bands. Requires no tuning. Can also be used as code practice oscillator. Plug provided fits headphone jack of receiver; headphones plug into jack on Signal Sentry. RF probe coupled loosely to transmitter provides signal. Mutes receiver output; an ideal keying monitor for break-in operation. Requires 250 v. DC at 5 ma., 6.3 v. at 0.6 amp. $3\frac{7}{8} \times 3\frac{5}{8} \times 3\frac{3}{4}$ ". Uses 12AX7 and 12AU7. All cables and connectors are included. Shpg wt., 3 lbs.
99 S 017. NET.....22.00
- G** MODEL 250-24 STANDING WAVE RATIO BRIDGE. A valuable aid in the adjustment of antenna coupler and transmission line for maximum efficiency. Helps to minimize standing wave ratio to assure effective operation of low-pass filter. 52 ohm input (can be changed by replacing resistor). Supplied complete with coax connectors and color coded phone tip jacks for connection of 0-1 ma meter (not supplied). Size, $2\frac{5}{8} \times 4\frac{1}{2}$ ". Shpg. wt., 1 lb.
99 S 028. NET.....9.75



Vibroplex Semi-Automatic Keys

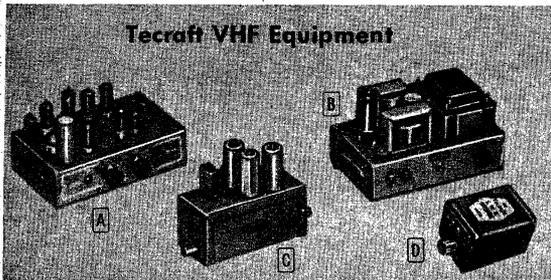
- H** "ORIGINAL." A precision-built, semi-automatic key for all speeds. Minimum effort for smooth, rapid sending. Preferred and used by veteran operators. Chrome-plated mechanism. Gray finish cast-iron base. Less cord and wedge. Wt., 5 lbs.
76 S 035. NET.....19.95
- DELUXE "ORIGINAL." As above, but jeweled bearings, chrome-plated base. Wt., 5 lbs.
76 S 038. NET.....23.95
- J** "CHAMPION." Inexpensive, semi-automatic key. Carefully designed for smooth, easy operation. Mechanism is chrome plated; base is gray crackle finish. Less cord and wedge. Shpg. wt., 4 lbs.
76 S 036. NET.....15.95
- K** STANDARD "BLUE RACER". Small and lightweight. Precision construction throughout for extremely smooth operation. Chrome-plated mechanism. Gray base. Less cord and wedge. Shpg. wt., 4 lbs.
76 S 045. NET.....19.95
- DELUXE "BLUE RACER". As above, but jeweled bearings, chrome base. 4 lbs.
76 S 046. NET.....23.95
- CORD AND WEDGE SET. Shpg. wt., 3 oz.
76 S 156. NET.....1.75
- CARRYING CASE. Fits all Vibroplex keys except "Blue Racer." Shpg. wt., 2 lbs.
76 S 037. NET.....6.75



Johnson Speed-X Keys and Buzzers

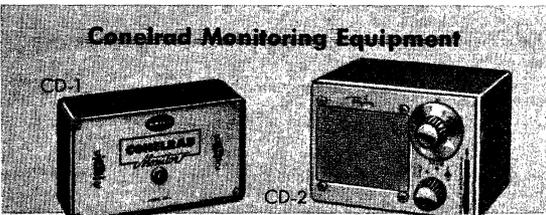
- L** MODEL 114-320 HEAVY-DUTY KEY. Deluxe key built to very rigid specifications for smooth, comfortable sending. Large, chrome-plated key arm suspended from hardened steel bearings. $\frac{1}{4}$ " silver contacts. Adjustable spacing and tension. Heavy brass connector concealed under base. Black diecast base. Shpg. wt., 2 lbs.
76 S 058. NET.....4.70
- M** MODEL 114-110 SOUNDER/KEY. Moderately priced telegraph sounder with smooth operating key. An excellent unit specially designed for Morse-code sending and receiving practice. Rugged, dependable construction, throughout. Provides clear easy-to-read signal. Has steel sounder plate. Brass sounding bar. Bridge has black enamel finish. Mahogany finished wood base. Brass binding posts. Sounder resistance is 4 ohms. Shpg. wt., 2 lbs.
76 S 066. NET.....14.95
- MODEL 114-112 TELEGRAPH SOUNDER. Not illustrated. Designed for instant response. Brass sounder provides strong, clear signal. Steel bar frame with black enamel finish. Brass bridge and adjustment screws with lacquer finish. Black lacquered steel sounder plate. On mahogany finished wood base. Non-slip rubber mounting feet; won't mar tabletop. Sounder has 4 ohms resistance. Brass binding posts for convenient connection. Shpg. wt., 3 lbs.
76 S 067. NET.....9.95
- N** MODEL 114-500 DELUXE SEMI-AUTOMATIC KEY. A smooth operating key with $\frac{1}{4}$ " contacts. Vibrator arm, posts, circuit closing switch and all machine parts are chrome plated. Adjustable from lowest to highest speeds. Has five adjustments with lock nuts—fiber paddles adjust separately to best height. Mounted on black-wrinkle steel base. $6\frac{1}{4} \times 3\frac{1}{2} \times 1\frac{1}{2}$ ". 5 lbs.
76 S 068. NET.....17.95
- MODEL 114-501 KEY. New, restyled key. $\frac{1}{4}$ " contacts and chrome base. 5 lbs.
76 S 069. NET.....20.65
- P** MODEL 114-520 SEMI-AUTOMATIC KEY. A semi-automatic key for smooth, effortless radiotelegraph sending. Contact spacing and sliding weight easily adjustable to desired sending speed. Ruggedly constructed for long dependable use. Has $\frac{1}{8}$ " silver contacts. All hardware is heavily chrome plated. Die-cast base finished in black wrinkle enamel. Rubber feet prevent marring finished surfaces and keep "bug" stationary. Shpg. wt., 4 lbs.
76 S 065. NET.....13.95
- R** MODEL 114-400 HIGH-FREQUENCY BUZZER. Use with hand key for code practice. A very effective low-cost unit. Ample volume for several listeners. Screw adjustment provides variable tone. Require 3 v. battery combination. Shpg. wt., 5 oz.
76 S 060. NET.....1.85

VHF GEAR — SELECTED AMATEUR ACCESSORIES



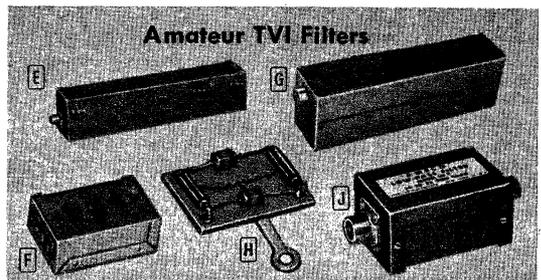
Tecraft VHF Equipment

- A** TR-20/50 TRANSMITTER. 20-25 watt transmitter for the 6-meter band. Uses 8-mc crystals in Pierce oscillator—eliminates tricky overtone circuits. No frequency multiplication in final stage—reduces radiated harmonics. Has 6AU6 oscillator, 5763 buffer-doubler, 6360 amplifier, 12AX7 speech, 2—6AQ5 modulators. Requires 6.3 v. @ 3.89 amp and 250 v. DC @ ¼ amp. Matches 52 or 72-ohm coaxial lines. 9½x5½x5". With crystals. Shpg. wt., 5 lbs.
83 S 856. NET. 59.95
- TR-20/144 TRANSMITTER. Same as above, but for 2 meters—has additional 5763 buffer-multiplier.
83 S 854. NET. 59.95
- B** PTR-2 POWER SUPPLY. For above transmitters and the Tecraft converters. Delivers 6.3 volts @ 6 amps, 6.3 volts @ 4 amps, and 250 volts DC @ ¼ amp. Has send-receive switch. 5¾x9½x6". For 110-120 v., 60 cycle AC. Shpg. wt., 17 lbs.
83 S 855. NET. 39.95
- C** M-6 6-METER CONVERTER. The "Mini-Verter" for 6 meters. A natural for mobile use. Chassis is only 2¼x5x2¼", excluding tubes and crystal. Uses wide-band circuit to achieve 1-mc. coverage of the 6-meter band. Tune broadcast receiver from 550 kc to 1550 kc to cover 50-51 mc. Crystal-controlled oscillator. Requires 6.3 v. @ ¼ amp and 100 v. DC @ 8 ma. Shpg. wt., 3 lbs.
83 S 852. NET. 25.95
- CC-50 DELUXE 6-METER CONVERTER. Not illustrated. 36 db gain sensitivity; 1/10 µv for 6 db SNR. Noise figure: 4 db. Has 4-mc passband, down 6 db at 6 mc. IF output frequency: 14-18 mc. crystal controlled. Requires 6.3 v. @ 2 amps and 150-250 v. DC @ 43 ma. 50-54 mc coverage. With tubes and crystal. 9½x3x4½". Wt., 5 lbs.
83 S 858. NET. 44.95
- CC-144 2-METER CONVERTER. As above, but 2 meters. (144-148 mc).
83 S 857. NET. 44.95
- CC-108 108-MC DELUXE CONVERTER. Satellite-tracking converter for use with general-coverage receivers. IF output frequency: 14 mc. (Other specs same as CC-50).
83 S 859. NET. 44.95
- P-1** POWER SUPPLY. Not illus. For Tecraft converters above. Delivers 6.3 v. AC @ 3 amps and 200 v. DC @ 50 ma. Size, 5½x2x5". For 110-120 v., 50-60 cycle AC. Shpg. wt., 6 lbs.
83 S 853. NET. 19.95
- D** NEW SWR BRIDGE. Effective to 150 mc. Standard coax connectors. Measures SWR on 52 or 72-ohm lines. Wt., 1 lb.
83 S 595. NET. 8.95



Conelrad Monitoring Equipment

- Conelrad units will soon be used for emergency weather warning as well as Civil Defense. Local U.S. Weather Bureaus will warn local radio stations of impending storms. Stations then send out signals to Conelrad sets which trip speakers, lights or alarms to call listener's attention to storm warnings about to be broadcast.
- AMECO MODEL CD-1**. Low-cost Conelrad monitor. Converts any radio having AVC into effective alarm system. Loss of broadcast station carrier removes AVC from trigger-tube causing warning tone. No broadcast signal is heard during monitoring periods. Function switch mutes radio for monitoring. 6¼x3¾x2". For 110-120 v., 50-60 cycle AC. Shpg. wt., 2½ lbs.
94 S 888. NET. 14.95
- REGENCY TRANSISTORIZED MODEL CD-2**. Battery-powered Conelrad and broadcast receiver. 3-transistor TRF circuit provides over 500 hours of operation in C-D monitoring position. 3" speaker is muted in C-D position; audio note is produced only when carrier is interrupted. Less batteries; below. 4¾x3¼x4¼". 2½ lbs.
93 S 164. NET. 29.50
- 59 J 031. Burgess Z cell. 1 required. 3 oz. NET. 9c
- 80 J 684. Burgess 2N6. 1 required. 5 oz. NET. 1.30



Amateur TVI Filters

- E** BUD LF-601 LOW-PASS FILTER. For 52 or 72-ohm lines. Handles 1 kw of RF. Cutoff: 42 mc. Minimum attenuation of 85 db, above 54 mc, 93 db above 70 mc. 12x2¼x2¼". Wt., 2½ lbs.
73 S 047. NET. 17.25
- F** BUD HF-600 HIGH-PASS FILTER. High-pass filter for TV set. Rejects signals below 42 mc. Reduces interference from low-frequency sources. For 300-ohm line. 3¼x2½x1½". 6 oz.
73 S 046. NET. 4.85
- G** B & W 425 LOW-PASS FILTER. 52 ohms. 1 kw RF, 2 "M"-derived end sections; 4 constant-K center sections. 85 db attenuation on TV channels. 11x3x2". 1½ lbs.
77 S 613. NET. 16.76
- MODEL 426. As above, but for 72-ohm lines.
77 S 614. NET. 16.76
- H** AMECO HP-45 HIGH-PASS FILTER. Attenuates all signals below 45 mc. Reduces TV interference, 40 db attenuation at 14 mc and below; 20 db at 10 meters. 300-ohms. 1½x7¼x¾". 3 oz.
77 S 673. NET. 95c
- NEW AMECO HPX-45 HIGH-PASS FILTER. Not illus. Deluxe, 2-section version of above. Cutoff frequency, 45 mc. Negligible insertion loss. 80 db attenuation at 14 mc and below; 40 db attenuation at 10 meters. For use with 300-ohm twin line. 2½x2x1½". Wt., 5 oz.
77 S 686. NET. 2.25
- J** AMECO LN-2 LOW-PASS FILTER. Handles up to 200 watts RF. For 52 to 72-ohm coaxial cable. Has 2—SO-239 connectors, bracket, etc. Aluminum case. 4¾x2½x1¼". Wt., 1 lb.
77 S 675. NET. 3.75
- LN-1 LOW-PASS FILTER. As above, but has RCA-type phono jacks.
77 S 674. NET. 2.25

Books for the Beginning Amateur



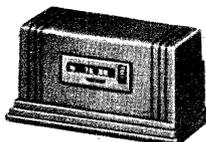
GATEWAY TO AMATEUR RADIO. Four A.R.R.L. books for the Novice. *How to Become a Radio Amateur*. How to get on the air, obtain a license, etc. 148 pages. *Learning the Radio-Telegraph Code*. Covers sending and receiving. 48 pages. *License Manual*. FCC exams, answers to probable exam questions, etc. 111 pages. *Operating an Amateur Radio Station*. Correct operating procedures, etc. 16 pages. Size, 6½x8½".
37 K 369. Postpaid in U.S.A. 1.50

RADIO AMATEUR'S LICENSE MANUAL. Standard reference for the radio enthusiast preparing for his Amateur license. Covers FCC exams for all Amateur licenses: Novice, Technician, Conditional, etc. Contains up-to-date government regulations, answers to probable license exam questions, and valuable information about regulations. 6½x9½". 111 pages.
37 K 555. Postpaid in U.S.A. 50c

A COURSE IN RADIO FUNDAMENTALS. A study guide, examination book, and laboratory manual with text based on the latest edition of the *Radio Amateur's Handbook*. Contains 36 study assignments in radio theory. Assignments are arranged in logical order to give the reader a practical course in electronic and radio fundamentals. Each chapter is followed by questions and answers. Chapters: Electricity and Magnetism; Ohm's Law; Resonant Circuits; Vacuum-Tube Fundamentals; Modulation; etc. 103 pages. 6½x9½".
37 K 564. Postpaid in U.S.A. 1.00

LEARNING THE RADIODOTELEGRAPH CODE. Trains students to handle code skillfully and with accuracy, both in sending and receiving. Employs a system of instruction which quickly brings the student an understanding of this new "language." Chapters include: High-Speed Operation; Operating on the Air; Code Practice; Class Instruction, etc. 48 pages. Size, 6½x9½".
37 K 562. Postpaid in U.S.A. 50c

Pennwood 24-Hour Station Clock



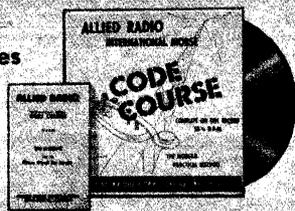
MODEL 100-J-24¼. Numeral type. 24-hour station clock. Ideal for Amateur stations, commercial stations, etc.—clearly shows exact time at a glance. Ivory plastic case. 4x7¼x4¼". For 110-120 v., 60 cycle AC. Wt., 4 lbs.
78 B 341. NET Incl. F.E.T. 15.84

MODEL 100-J-24H¼. Ebony case.
78 B 340. NET Incl. F.E.T. 14.85

TOP VALUES FOR BEGINNING AMATEURS



Code Courses



AMECO CODE COURSES. Three courses. *Junior Course:* five 45 or 78-rpm records or one 33 $\frac{1}{3}$ -rpm LP; from start to 7 $\frac{1}{2}$ wpm. *Advanced:* six 45 or 78-rpm records or one 33 $\frac{1}{3}$ LP; 8 $\frac{1}{2}$ to 18 wpm. *Senior:* eleven 45 or 78-rpm records or two 33 $\frac{1}{3}$ -rpm LP's; from start to 18 wpm. All courses include a 28-page manual with FCC-type exams.

Stock No.	Course	Record Speed	rpm	Shpg. Wt.	NET
77 S 616	Junior	78	rpm	4 lbs.	6.95
77 S 647	Junior	45	rpm	1 $\frac{1}{2}$ lbs.	5.95
76 S 075	Junior	33 $\frac{1}{3}$	rpm	1 lb.	4.95
77 S 619	Advanced	78	rpm	4 lbs.	5.95
77 S 648	Advanced	45	rpm	1 $\frac{1}{2}$ lbs.	4.95
76 S 076	Advanced	33 $\frac{1}{3}$	rpm	1 lb.	4.95
77 S 617	Senior	78	rpm	7 lbs.	11.50
77 S 649	Senior	45	rpm	4 lbs.	10.50
76 S 077	Senior	33 $\frac{1}{3}$	rpm	2 lbs.	9.50

NEW—ALLIED'S COMPLETE 10-LESSON CODE COURSE ON SINGLE 12", 33 $\frac{1}{3}$ -RPM RECORD. Learn to send and receive well enough to pass novice or general class code examinations—with this single record, 5 lessons per side—takes you from start to 15 wpm. Back of record jacket contains International Morse Code table. Includes 20-page Allied instruction book. Shpg. wt., 1 lb.

77 S 684. NET..... 4.49

ALLIED'S 5-RECORD CODE COURSE. "Eye-Ear" method of learning code at home—eye follows the letters as the ear hears the sounds. Five 10", 78 rpm records recorded on each side. From 2 to 15 wpm in 10 lessons. Includes album and instruction book. Shpg. wt., 6 lbs.

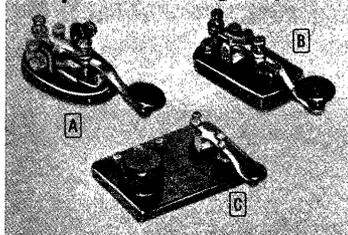
77 S 643. NET..... 5.95

MAKE ALLIED YOUR SUPPLY HEADQUARTERS

Beginners in amateur radio—for best service, best selection and lowest prices, make Allied your supply headquarters. You can choose from the world's finest array of equipment, and receive personal service from our staff of experienced amateurs. Allied's amateurs have studied your needs and have selected a group of beginner's items that will make the road to your amateur license short and smooth. You'll find low-cost code-practice equipment and books to prepare you for written license exams.

If you have any problems in getting on the air, Allied's friendly amateurs stand ready to assist you. If you are on the air, remember that Allied is making bigger and better trade-in allowances than ever. We'll take trades on your old equipment whenever you're ready—you'll not only be given a terrific trade-in allowance, but you'll be able to take advantage of our Easy Pay Plan. Just drop a card or letter to Allied's Ham shack for expert, practical advice or trade-in information.

Popular Learning Keys



A JOHNSON MODEL 114-310 STANDARD KEY. Precision-built, moderately priced key. Excellent for code practice and for use with transmitters. Heavy die-cast base is durably finished in handsome black wrinkle enamel; mechanical parts are nickel-plated. $\frac{1}{8}$ " silver contacts. Dual adjustments for tension and contact spacing; adjustable bearings. Includes provision for plugging in semi-automatic keys. Shpg. wt., 2 lbs.

76 S 055. NET..... 3.10

B JOHNSON MODEL 114-300 PRACTICE KEY. A well-built, low-cost general purpose key. Ideal as a code practice key for the beginner. Brown molded phenolic base and knob. Adjustable key arm, spring and smooth-action bearings—easily adjusted tension and contact spacing. $\frac{1}{8}$ " silver contacts. With beginners code card. Shpg. wt., 8 oz.

76 S 053. NET..... 2.25

C JOHNSON MODEL 114-450 BUZZER CODE PRACTICE SET. Consists of key and constant high-frequency buzzer mounted on brown bakelite base. Screw adjustment provides variable tone. Key has silver contacts. Can be used individually or in pairs for code practice. Requires 3 v. DC (2—1 $\frac{1}{2}$ v. batteries). Shpg. wt., 2 lbs.

76 S 059. NET..... 4.90

Allied's Own American Bell Quality Headphones

STANDARD DUAL HEADPHONES. Moderately priced, lightweight headphones. Adjustable, flexible headbands. Employ hyflux Alnico magnets and solenoid coils firmly mounted in headphone shell. Molded bakelite cap and case. With 4 $\frac{1}{2}$ -ft. cord; standard phone tip terminals. 2000 ohms. 1 $\frac{1}{4}$ lbs.

59 J 110. NET..... 2.00

SINGLE HEADPHONE. Not illustrated. Dependable, economy-priced unit. 2000 ohms. Shpg. wt., 8 oz.

59 J 113. NET..... 1.15



Allied Radio Corporation, 100 No. Western Ave., Chicago 80, Illinois



Code Practice Oscillators

D JACKSON 562 CODE PRACTICE OSCILLATOR. Low-cost transistor code oscillator for self-practice, teaching or monitoring. For use with external magnetic phones and key. Employs p-n-p junction transistor. With tone adjustment. Less battery, see below. 6 $\frac{1}{2}$ x3 $\frac{3}{4}$ x2". Shpg. wt., 2 lbs.

77 S 640. NET..... 7.79

BATTERY FOR ABOVE. 1 $\frac{1}{2}$ v. Wt., 3 oz.

53 J 009. NET..... 14c

E GONSET 3022 "MONITONE" MONITOR AND CODE PRACTICE OSCILLATOR. Combination code practice oscillator and phone or CW monitor. Transformer-type power supply. Has built-in speaker and provision for headphones. Separate tone and volume controls. Uses RF pickup link to monitor transmitter keying. Case size is 5 $\frac{1}{4}$ x6 $\frac{3}{4}$ x4". For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 4 lbs.

83 S 829. NET..... 22.50

F AMECO CPS-WT CODE PRACTICE OSCILLATOR. A deluxe practice oscillator with a built-in 4" PM speaker. Produces a loud and clear tone with ample volume for group use. Built-in click filter provides smooth, clickless and chirp-free operation. Variable tone and volume controls to suit the individual listener. Can easily be converted to an excellent CW keying monitor. Gray finish. Has rear-mounted screw terminal strip. Size, 6 $\frac{1}{2}$ x5x3 $\frac{1}{2}$ ". For 110-120 v., AC or DC. Shpg. wt., 3 lbs.

77 S 629. NET..... 14.95

G BUD CPO-128A CODEMASTER. High-quality code practice oscillator with built-in 4" PM speaker. Earphones and keys may be paralleled for group instruction. Volume and pitch controls. External speaker may be plugged into headphone jack; both headphone and key jacks take phone plug listed below. 6 $\frac{1}{2}$ x5 $\frac{1}{2}$ x3 $\frac{1}{2}$ ". For 110-120 v., AC or DC. Shpg. wt., 5 lbs.

73 S 044. NET..... 18.75

STANDARD PHONE PLUG. For attaching keys and headphones to CPO-128A above. 3 oz.

41 H 641. NET..... 44c

CABLE. Extension cord for keys. 2 oz.

48 W 805. NET PER FOOT..... 2c

SAVE \$2.48

ALLIED'S SPECIAL CODE PRACTICE KIT COMBINATION OFFER

A complete code practice equipment package, at a remarkably low price. Contains everything needed for beginners just learning the code, or for experienced amateurs who want to improve their "fist". Consists of:

ALLIED CODE COURSE (5 RECORDS).....	\$5.95
SURPLUS J-38 KEY.....	1.49
DUAL HEADPHONES.....	2.00
KNIGHT-KIT CODE PRACTICE OSCILLATOR KIT.....	3.95
GATEWAY TO AMATEUR RADIO (SET OF 4 BOOKS).....	1.50
STANDARD PHONE PLUG.....	.44
5-F-T EXTENSION CABLE FOR KEY.....	.10
TOTAL VALUE.....	\$15.43
SPECIAL INTRODUCTORY PRICE.....	12.95
YOU SAVE.....	\$2.48

77 S 683. Wt., 11 lbs.

ONLY..... 12.95

FAMOUS hallicrafter FM RECEIVERS



S-94, S-95



SX-104, SX-105

These high-performance FM receivers provide excellent reception on public service or commercial frequencies. Feature famous Hallicrafters quality at low cost. Couple high sensitivity with adjustable built-in relay-type squelch system.

"CIVIC PATROL" RECEIVERS. Two compact, easy-to-operate FM receivers for superb reception of commercial or public service frequencies. Model S-94 covers 30-50 mc; Model S-95 covers 152-173 mc. May be used for reception of police, fire, taxicab, inter-city bus, railroad, private telephone mobile, and other industrial and emergency-service communications.

Advanced circuit design assures minimum drift, high signal-to-noise ratio and exceptional sensitivity. Has wide-range antenna input impedance for excellent results with any type antenna. Low-noise, grounded-grid amplifier. Designed for low oscillator radiating. Adjustable, built-in relay-type squelch system silences entire audio system until signal is received—permits quiet standby operation. Built-in 5" PM speaker, 1.5 watts audio output. Phone tip jacks for headphone operation—switch selects speaker or headphone output. Terminals for single-wire or twin-lead antenna input (external antenna supplied). 0-100 logging scale. 8 tubes plus selenium rectifier. 7x12 7/8x7 1/4". For 110-120 v., 50-60 cycle AC. Shpg. wt., 12 1/2 lbs.

MODEL S-94. Covers 30-50 mc FM.
98 SU 708. \$6.00 Down. NET. 59.95
MODEL S-95. Covers 152-173 mc FM.
98 SU 721. \$6.00 Down. NET. 59.95

DELUXE "CIVIC PATROL" RECEIVERS. These outstanding FM receivers cover the same frequencies as the S-94 and S-95 (described at left), but they incorporate many deluxe extras for improved performance and operating convenience. Have tuned RF stage for added sensitivity. Feature choice of crystal-controlled (fixed frequency) or tunable operation. Carrier-operated relay with external switch contacts for connecting warning light or buzzer system to alert operator when signal is received.

Have built-in squelch for quiet standby operation. High stability in tunable position—no drift in crystal position. High signal-to-noise ratio. Low oscillator radiation. Wide-range antenna input impedance for all types of antennas. 5" PM speaker; head-phone jack, 3 watts of audio. Tubes: SX-104, 8 plus rectifier; SX-105 9 plus rectifier. Size, 7x12 7/8x7 1/4". For 110-120 v., 50-60 cycle AC. Less crystals. Shpg. wt., 18 1/2 lbs.

Crystals for fixed-frequency operation are available from Allied on special order at \$7.72 each for the SX-104 and \$5.29 each for the SX-105. Specify receiving frequency required. Allow 3 weeks for delivery.

MODEL SX-104. For 30-50 mc FM.
94 SU 803. \$9.00 Down. NET. 89.95
MODEL SX-105. For 153-173 mc FM.
94 SU 804. \$9.00 Down. NET. 89.95

GONSET VHF MONITOR RECEIVERS



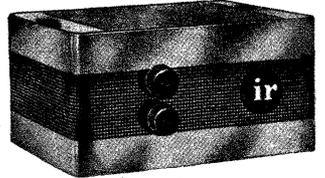
- FM and AM VHF Coverage
- Sensitive and Stable

VHF communications receivers for monitoring municipal, commercial and industrial services. Efficient 8-tube circuit has adjustable squelch for quiet between transmissions, temperature-compensated oscillator for high stability. Built-in speaker. 4 1/2 x 6 1/2 x 10 3/4". For 110-120 v., 60 cycle AC. Shpg. wt., 10 1/2 lbs.

Stock No.	Model No.	Freq. (Mc)	Reception	NET EACH
92 S 319	3155	30-50	FM	79.50
92 S 320	3156	112-132	AM	
92 S 321	3158	152-174	FM	

INDUSTRIAL RADIO

"VOLUNTEER" FM RECEIVERS

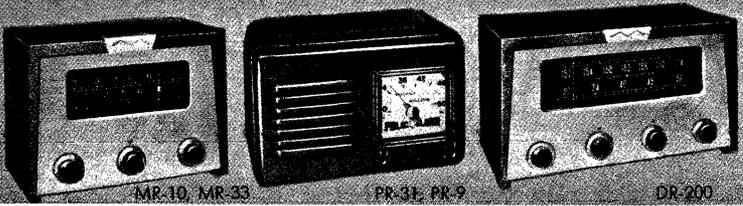


- Meet Civil Defense Requirements
- For Police, Fire, Forestry, Etc.

Single-frequency FM receivers. Dual-conversion; crystal-controlled. Built-in speaker; adjustable squelch. 4 1/2 x 6 1/2 x 8 1/2". With crystal. 10 lbs. Specify exact receiving frequency and allow 30-days for delivery.

Stock No.	Model No.	Range (Mc)	Power Req'd	NET EACH
92 S 313	AC/40	25-55	117 VAC	125.00
92 S 314	12/40	25-55	12 VDC	135.00
92 S 315	6/40	25-55	6 VDC	135.00
92 S 316	AC/150	140-175	117 VAC	125.00
92 S 317	12/150	140-175	12 VDC	135.00
92 S 318	6/150	140-175	6 VDC	135.00

MONITORADIO FM RECEIVERS



MODEL MR-10. Deluxe FM receiver for full coverage of 152-174 mc. Excellent for emergency, commercial or industrial communications. Features a transformer-type power supply; adjustable, built-in, electronic squelch for absolute quieting; built-in 5" PM speaker; 4 μ v sensitivity. 7 tubes; 6X4 rectifier. 7 7/8 x 11 1/4 x 6 1/2". For 110-120 v., 50-60 cycle AC. Wt., 18 lbs.
99 SU 002. \$6.45 Down. NET. 64.50

MODEL MR-33. As above, but for 30-50 mc.
99 SU 003. \$6.45 Down. NET. 64.50

MODEL DR-200 2-BAND FM RECEIVER. Excellent for central installation with very weak outlying stations. Ranges: 30-50 mc and 152-174 mc. Dual-conversion and separate front-end range. Provision for one crystal-controlled frequency in each range, (less crystals). Squelch circuit. Sensitivity for 20 db quieting: 30-50 mc, 1 μ v; 152-174 mc, 2 μ v. 14 tubes; 5Y3CT rectifier. 8x14 1/4 x 9 1/2". Less speaker (see below). For 110-120 v., 60 cycle AC. Shpg. wt., 21 lbs. *Crystals for fixed-frequency reception available on special order at \$11.95 each. Specify desired receiving frequency. Allow 3 weeks for delivery.*
97 SU 939. \$15.00 Down. NET. 149.95

MODEL DRS-1 6" SPEAKER IN METAL ENCLOSURE. 8x7 1/2 x 7 1/2". 6 lbs.
97 SU 949. NET. 14.95

MODEL CA-2 COAXIAL ANTENNA. Use with 152-174 mc. receivers. 1 lb.
99 S 000. NET. 5.00

MODEL PR-31 "POLICE-ALARM." Low-cost FM receiver for dependable reception of 30-50 mc. Temperature-compensated oscillator for high stability. Sensitivity better than 10 μ v. Built-in 5" PM speaker. 5 tubes; 35W4 rectifier. Antenna impedance, 72 ohms. Size, 7x10 1/2 x 6 1/2". For 110-120 v., 50-60 cycle AC or DC. Wt., 9 lbs.
97 SU 907. \$5.00 Down. NET. 49.95

MODEL PR-9. As above, but for 152-174 mc coverage, and includes 14" indoor antenna.
97 SU 908. \$5.00 Down. NET. 49.95

MODEL A-30 WHIP ANTENNA. For use with the Model DR-200 or the MR-33 receiver for optimum 30 to 50 mc FM reception. Adjustable base. 3 chrome-plated sections; extends to 86". Less cable. Uses 72-ohm coaxial cable. Shpg. wt., 1 lb.
99 SU 001. NET. 6.50

KAAR CONELRAD MONITOR



- Built For Continuous Operation

MODEL 117R905 "CONALERT II." Precision-engineered receiver for 24-hour Conelrad monitoring. Now can also be used for emergency weather or disaster alerts—Conelrad system of interrupting carrier precedes announcement. Monitors any one of 5 pre-set channels including 640 and 1240 kc. Loss of carrier lights indicator, connects 5" PM speaker and activates external alarm system. Has fail-safe circuit which activates alarm if major component or tube fails. Alarm sensitivity, 5 μ v. 7 tubes plus rectifier. 15x9x10 1/2". Less external alarm. For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 27 lbs.
94 SU 890. \$14.00 Down. NET. 140.00

VOCALINE 2-WAY RADIO TRANSCIVERS



No Operators
License or
Skill Needed

Operate on 115 VAC, 6 or 12 VDC

MODEL JRC-400 STANDARD. Low-cost, highly reliable 2-way communication is yours with these Vocaline transceiver units! Ruggedly built, compact and lightweight, you simply plug the transceiver into any 115 v. AC outlet or 6 or 12-volt DC power source. Press the convenient push-to-talk switch and speak into the hand-held microphone. Your message is clearly received over the built-in speaker of other Vocaline units. Button is released to receive reply. No tuning—no adjustment.

Transceivers operate on 465 megacycles (Citizens Radio Band) to provide highly satisfactory communication over limited ranges. Simple application form (included with each Vocaline unit), is filled out and mailed to the FCC. Station license for this equipment is readily granted to any U.S. citizen over 18 years of age.

Offer hundreds of applications to the industrial user—in warehouses or docks, storage yards, construction fields, etc. **Power Output:** 1/2 watt. **Tubes:** 6AV6, 6AF4A, 6AS5. Has volume control. Each unit is 9x6x5".

With mike, AC and DC line cords and plug-in antenna. Shpg. wt., 3 1/2 lbs.
83 SU 881. For 115VAC/6 VDC.
83 SU 883. For 115 VAC/12VDC.
NET EACH..... **59.80**

MODEL JRC-425 SPECIAL. Same as the Model JRC-400, but has push-to-talk switch on stainless steel microphone and jack for headphones. Less headphones.
83 SU 884. 115 VAC/6 VDC.
83 SU 885. 115 VAC/12 VDC.
NET EACH..... **83.80**

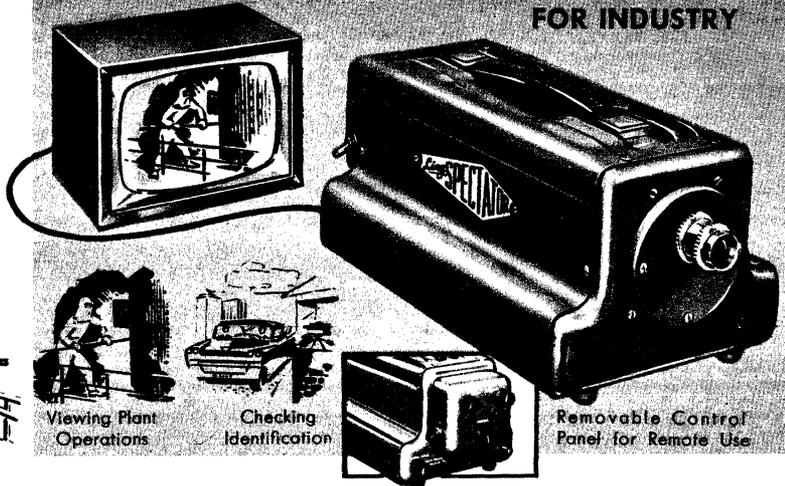
NEW MODEL CUB-1/MT-1. Remote controlled transceiver similar to Model JRC-425, but for base station operation. Built-in antenna on remote transceiver unit MT-1 eliminates signal losses from transmission lines—MT-1 can be mounted as high (up to 500') as possible for maximum performance. Control unit CUB-1 has same features as Model JRC-425 with additional variable squelch control and squelch Off-On. Sizes: MT-1, 7x4 1/2 x 2 1/2"; CUB-1, 9x6x3 3/4". With mike, 100-ft. control cable. For 110-120 v., 50-60 cycle AC. Shpg. wt., 12 lbs.
83 SU 887. NET..... **143.60**

MODEL GP4-10 GROUND PLANE ANTENNA. For interior-to-exterior communication with Models JRC-400 and JRC-425. Recommended for use when units cannot be placed in clear location. With hardware and 10-foot lead-in cable. Shpg. wt., 1 lb.
83 S 882. NET..... **6.36**

Other GP4 antennas with cable lengths up to 100' available on special order.

MODEL AD-3 DIRECTIONAL ANTENNA. For extending point-to-point communications range up to 10 miles between all transceivers (except CUB-1/MT-1). 7 lbs.
92 SU 369. NET..... **19.96**

LOW-COST CLOSED-CIRCUIT TV FOR INDUSTRY



NEW LING MODEL V-1051 "SPECTATOR." Self-contained, lightweight closed-circuit TV camera. Designed for rugged industrial use—vertical stability is unaffected by power line changes. Has f/1.9 lens for excellent pictures without special lighting. Can be used any place where personal viewing would be inconvenient, impossible, costly or dangerous. Keeps an "eye" on production, monitors meters, "guards" entrances, etc. Used by banks for quick check of signatures and balances. Schools can utilize it to provide visual contact of demonstrations for large groups. Accommodates large overflow crowds in churches, conventions, halls, etc. Permits remote viewing of nursery, play-area or entrances in the home.

May be operated by remote control—control panel is removable for remote operation up to 1000 feet away. Produces a composite video signal for use with any number of video monitors (listed at right). For use with standard TV receivers, the Video Jeep is required. Includes Grade B vidicon with regular guarantee—same brightness and definition as Grade A vidicon, but a few insignificant spots on face. Standard 16 mm "C" mount lenses. Size, 5 1/4 x 7 1/4 x 15 1/2". With 30' remote cable. For 110-120 v., 60 cycle AC. Shpg. wt., 15 lbs.
91 SU 999. NET..... **595.00**

LING MODEL V-1002 "ELECTRON." Low-cost closed-circuit TV camera. For engineers, hams, experimenters, and for light industrial use. Has fast f/1.9 lens. Removable control panel for remote operation. May be used with TV monitors (below); as well as with a standard TV receiver. Includes Grade B vidicon, standard 16mm "C" mount lenses, 30' cable. For 110-120 v., 60 cycle AC. Shpg. wt., 15 lbs.
92 SU 371. NET..... **379.00**

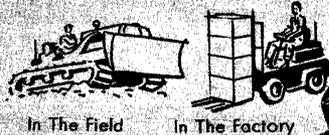
MONITORING EQUIPMENT

17" MIRATEL TV MONITOR FOR C.C. TV. Attaches directly to camera—no converters or transformers needed. Similar to illustration, but has control knobs on front panel. Size, 16 1/4 x 16 1/4 x 16 1/2". For 110-120 v., 60 cycle AC. Shpg. wt., 67 lbs.
77 SZ 292. NET..... **159.00**

LING MODEL V-1005 "VIDEO JEEP." Converter for using TV cameras with standard TV receiver and for multiple monitor installations. Shpg. wt., 10 lbs.
92 SU 372. NET..... **59.95**

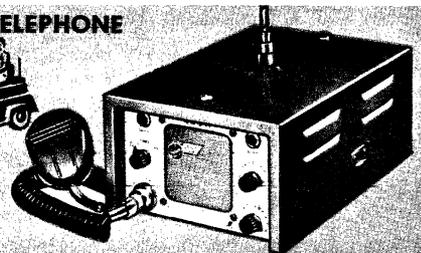
LING MODEL V-1008 BRIDGING TRANSFORMER. Use with each standard TV receiver in a multi-set installation. (One "Video" Jeep still required in system.) Wt., 6 lbs.
92 S 381. NET..... **13.50**

KAAR "IMP" RADIO TELEPHONE



In The Field In The Factory

- Mobile or Fixed
- Simple to Install



MODEL TR-426. Highly versatile low-power industrial mobile phone unit. Increases the efficiency of any industrial, maintenance or service vehicle in any industry by providing direct, two-way communication between vehicle and supervisor. It's perfect for use on lift trucks, runabouts, cranes, and other mobile units. Helps boost payload of any vehicle by eliminating wasteful "deadhead" trips. Consists of a complete receiver and transmitter in one compact case. Ruggedly built, and easily installed by anyone, the "Imp" has hundreds of uses in construction work, agriculture, airports, rail yards, loading docks, mines, pipelines, factories, and warehouses, etc. FCC accepted—any commercial enterprise can obtain licensing under Parts 10 (public safety), 11 (industrial), 16 (land transportation), or 9 (aircraft).

Unit operates from 6 or 12-volt battery or 110-120 volt AC source—can be used as a base station, a mobile phone, or as a mobile P.A. system. Crystal-controlled transmitter section operates on 154.57 mc. Receiver section is fixed-tuned to this frequency—no tuning required; has adjustable squelch circuit. Includes: transmitter-receiver unit; shock-mount base; cable for 6 and 12 volt operation; cable for 110-120 volt operation; carbon mike with push-to-talk switch and antenna. Size, 5 1/4 x 12 1/2 x 8 1/4". Shpg. wt., 24 lbs. *Requires no operator's license—application form for FCC station permit included in carton.*

99 SU 009. NET PER UNIT..... **360.00**
Units available on special order for 25-50 mc, 108-152 mc, and 152-174 mc. Specify frequency desired—allow 30 days for delivery.



FAMOUS RCA TEST EQUIPMENT FOR SERVICE,



WT-110A

WT-110A AUTOMATIC TUBE TESTER

For testing receiving tubes. Saves valuable time—simply insert pre-punched card into tester! Tests transconductance, gas, shorts and twin tube balance. Meter registers "RENEW—?—GOOD." Two gold-plated printed circuit boards set up a combination of 15 to 20 circuits which permit: Socket connections up to 10 pins, 220 combinations of heater voltage, 10 bias voltages, 5 plate voltages, 11 cathode resistors, 2 screen voltages, and 50 quality sensitivity ranges. Warranty includes free subscription that supplies new tube card settings. Includes 263 pre-punched vinyl plastic cards. In 7 1/4 x 14 1/2 x 17 1/2" carrying case. With master card for punching blanks, hand punch, 24 blank cards (for replacement or new tube types) and test card. For 105-125 v., 60 cycle AC. Shpg. wt., 30 lbs.

87 FU 075. NET. 199.50

WG-325A. 24 blank cards. Wt., 1 lb.

87 F 076. NET. 2.25

WG-337A. Four adapters—for testing tubes with small 4, 5 and 6-pin bases, and small and medium 7-pin bases. Wt., 5 oz.

87 F 084. NET. 7.95

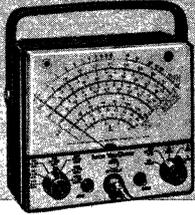
WG-338A. Tube-socket adapter for testing 7-lead, in-line subminiature tubes. 2 oz.

87 F 085. NET. 2.95

WG-339A. Tube-socket adapter for testing 8-lead circular, subminiature tubes. 2 oz.

87 F 086. NET. 3.50

Renowned RCA VoltOhmysts



WV-98A

WV-98A SENIOR VOLTOHMYST

Includes an outstanding array of "plus" features: easy-reading, zero-center scale; electronic protection against burnout; rugged, 200-microamp meter movement; ±1% multiplier resistors; die-cast aluminum case; etc. Has 6 1/2" meter, accuracy improved to ±3%, and single-unit DC-AC-Ohms probe with built-in selector switch. Excellent for measurement of complex TV waveforms—reads peak-to-peak voltages to 4200 volts.

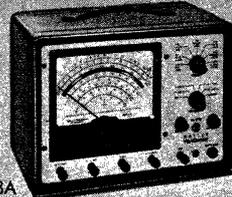
7-ranges for each function. Reads AC rms and DC to 1500 volts. Measures resistance from 0.2 ohms to 1000 megohms, AC input impedance of 0.83 megohm and 70 mmf to 1.5 megohms and 60 mmf. Input resistance on DC is 11 megohms. Size, 6 1/2 x 7 x 3 3/4". With WG-299C probe, shielded cable and instruction booklet. For 105-125 volts, 50-60 cycle AC. Shpg. wt., 7 lbs.

87 F 050. NET. 79.50

WV-87B MASTER VOLTOHMYST

This deluxe VTVM has a 7 1/2" mirrored-scale meter. Has the accuracy and stability necessary for many laboratory applications. Its peak-to-peak scales are useful for TV, radar work, etc. Reads peak-to-peak to 4200 volts. Response: 30 cps-3 mc. Has zero-center for FM discriminator alignment. Reads DC current to 15 amps. Measures DC voltage to 1500 in 7 ranges. Reads AC rms to 1500 volts; AC input impedances from 0.83 meg and 85 mmf to 1.5 meg and 75 mmf. DC resistance to 1000 megs in 7 ranges. Accuracy, ±3% of full scale for DC; ±3% of full scale for AC. 10x13 1/2 x 7". With WG-299C probe and cables. For 105-125 v., 50-60 cycle AC. Wt., 9 lbs.

87 FU 066. NET. 137.50



WV-77C

WV-87B

WV-77C JUNIOR VOLTOHMYST

Has easy-to-read 4 1/2" meter. 5 ranges on all functions. Reads AC rms and DC to 1200 volts. Accuracy on AC and negative DC volts is ±5%; on positive DC volts, ±3%. Measures resistance from 0.2 ohms to 1000 megohms. AC input impedance 0.2 megohms and 75 mmf to 2 megohms and 50 mmf. Input resistance, 11 megs. 8x5 3/4 x 4 1/2". With WG-299C probe. For 105-125 volts, 50-60 cycle AC. Shpg. wt., 5 lbs.

87 F 051. NET. 59.50

VTVM & VOM PROBES

WG-289 HV PROBE. Extends DC voltage range of VoltOhmysts (and other VOM's and VTVM's) to 50,000 v. Less multiplier. Shpg. wt., 1 lb.

84 F 077. NET. 7.15

WG-290 HV PROBE. As above, but with phone tip connectors.

84 F 076. NET. 7.15

MULTIPLIERS. For WG-289 & WG-290. 2 oz.

84 F 079. WG-206, 1090 meg. } NET

84 F 080. WG-207, 991 meg. } EA. 2.80

84 F 083. WG-210, 900 meg. } EA. 2.80

WG-299C DC/AC-OHMS PROBE. Replacement unit for VoltOhmysts. 1 lb.

87 F 077. NET. 8.75

WG-301A CRYSTAL DIODE PROBE. Slips on WG-299A, B or C. Extends RF to 250 mc.

Shpg. wt., 8 oz.

87 F 052. NET. 7.75

WG-264 CRYSTAL DIODE PROBE. Slip-on type for older-model VoltOhmysts using WG-218 probe. Shpg. wt., 12 oz.

84 F 084. NET. 7.75



WR-49B

WR-49B RF SIGNAL GENERATOR

Highly accurate RF signal generator. Continuous coverage from 85 kc-30 mc, in 6 ranges, all on fundamentals. Excellent for aligning AM and FM receivers. Dial calibration accurate within 1%. Built-in 400-cycle oscillator for internal or external modulation. Attenuator for positive control of RF level; approximate range: 2000 to 1. Cathode-follower output stage isolates oscillator from effects of load; assures high stability. RF output voltages at least 0.05 v. rms and 0.01 v. rms at high and low connectors respectively. With cable. 7 1/2 x 10 1/2 x 6". For 105-125 v., 50-60 cycle AC. Wt., 10 lbs.

87 FU 079. NET. 79.50

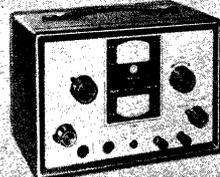


WR-99A

WR-99A MARKER-GENERATOR

Crystal-calibrated marker-generator for aligning FM and TV receivers and other electronic equipment in the 19-260 mc frequency range. Crystal calibrator provides 240 check points for accurate calibration at 1 or 10 mc intervals. Modulation frequencies: 1, 10, 4.5 mc, 600 cycles. Sound and picture carrier markers available simultaneously. Most-often-used IF and RF frequencies are indicated on dial scale. Output: At least 0.1 v. rms on all frequencies. Double-shielded oscillator for reduced leakage. 10x13 3/4 x 7 1/4". For 105-125 v., 50-60 cycle AC. Shpg. wt., 18 lbs.

87 FU 069. NET. 242.50



WA-44B

WA-44B AUDIO SIGNAL GENERATOR

For measuring intermodulation, response, input and output impedances, resonant frequency of speakers, amplifiers, etc. 4 ranges: 11-110 and 110-1100 cps; 1.1-11 and 11-100 kc. Has separate 60-cycle, variable-amplitude output. Cathode-follower output. "Hi" and "Lo" outputs: 0-2.5 and 0-15 volts (rms). Frequency stability, 3%. Response, ±1 db (1100 cps reference). Total harmonic distortion, 2% (max.) from 30 cps to 15 kc. Hum level, 0.1% or less. Size, 7x10 1/2 x 6". For 105-125 v., 50-60 cycle AC. Shpg. wt., 12 lbs.

87 FU 053. NET. 107.50



WR-70A

WR-70A RF-IF-VF MARKER-ADDER

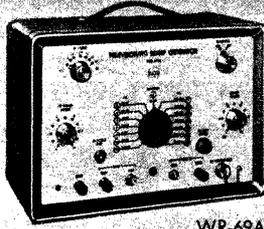
For RF, IF and video sweep-alignment of black-and-white and color TV sets. Four differently shaped markers: positive peak, negative peak, positive and negative peaks (wide band), and positive and negative peaks (narrow band). Use with marker and sweep generators. Marker signal is added after sweep passes through receiver—eliminates distortion of marker or sweep curve. 0-60 db attenuation of IF sweep signal for IF or video alignment. With 4 coax cables for connecting to sweep and marker generators, scope, and input and output circuits of TV receiver under test. 7 1/2 x 10 1/2 x 6 1/4". For 105-125 v., 50-60 cycle AC. Shpg. wt., 12 lbs.

87 FU 055. NET. 74.50

INDUSTRIAL AND LABORATORY USE



WR-46A



WR-69A



WR-61B

WR-46A DOT-BAR GENERATOR

Features a high level video output for driving the picture tube directly; or, the video amplifier of color or black-and-white receivers. Provides interlaced pattern of small dots and a choice of vertical or horizontal bars and a crosshatch. Vertical bars adjustable from 8 to 26 bars—15 horizontal bars only 2 lines wide. Fully adjustable video output voltage. Direct sync from TV signal allows convergence adjustment independent of receiver characteristics. $10\frac{1}{2} \times 8\frac{1}{2}$ ". For 110-120 v., 60 cycle AC. 20 lbs.

87 FU 056. NET.....179.50

WR-69A TV-FM SWEEP GENERATOR

This sweep generator provides test and alignment signals for TV video, IF, and RF channels 2-13—plus IF and RF signals for FM radio. Continuous IF coverage from 50 kc to 50 mc. Sweep width, 12 mc, continuously variable. Output flat within 0.1 db per mc of sweep width. Fundamental oscillator output on TV channels; filtered beat-frequency fundamental output on IF/VF range. Output, .1 volt RMS or better at all frequencies. Blanking circuit. Size: $10\frac{1}{2} \times 13\frac{3}{4} \times 7\frac{1}{4}$ ". With cables. For 105-125 volts, 50-60 cycle AC. Shpg. wt., 17 lbs.

87 FU 070. NET.....295.00

WP-25A TV ISOTAP

Not illus. Isolation and autotransformer. Checks TV sets at high, medium and low voltage. Selects 105-130 volts in 5-volt steps. Outputs: 105, 115 and 130 v. @ 500 VA from autotransformer winding; 105, 115 and 130 v. @ 275 VA from isolated secondary. $5 \times 5\frac{1}{2} \times 4\frac{1}{2}$ ". For 50-60 cycle AC. With 5 ft. line cord. Wt., 15 lbs.

62 G 516. NET.....22.00

WR-61B COLOR-BAR GENERATOR

For checking color TV sets, and for adjusting color phasing and matrixing. Produces 10 bars of different colors, simultaneously. Provides picture-carrier, color-subcarrier and sound-carrier frequencies on channel 3. Luminance signals at edges of bars for checking registration of luminance and chrominance signals. "Sync level Pedestals" for checking signal ratio through the three chrominance channels to indicate potential troubles. Size: $9\frac{3}{4} \times 13\frac{1}{2} \times 7\frac{1}{2}$ ". For operation from 105-125 volts, 50-60 cycle AC. Shpg. wt., 18 lbs.

87 FU 065. NET.....259.50

OTHER RCA INSTRUMENTS

WG-295B VIDEO MULTIMARKER. For use with sweep generator on black-and-white and color sets. Checks response of chrominance bandpass filter, and alignment of I and Q filters. 7 simultaneous absorption-type markers (mc): 0.5, 1.5, 2.5, 3, 3.58, 4.1, and 4.5. Size: $5 \times 2\frac{3}{8} \times 2\frac{1}{2}$ ". Wt., 1 lb.

87 F 054. NET.....32.50

WG-307A TV BIAS SUPPLY. For black-and-white and color TV. 3 output voltages for RF, IF and AGC adjustable from 0 to 15 v.; 1 output, 100 v., for chrominance circuitry. Size: $2\frac{1}{2} \times 3 \times 5\frac{1}{4}$ ". For 105-125 v., 50-60 cycles AC. Shpg. wt., 2 lbs.

87 F 067. NET.....22.50

WG-304A RF MODULATOR. Crystal-type mixer. For use with WR-69A and WR-99A to check TV response from antenna to picture tube. $1\frac{1}{2} \times 4 \times 2\frac{1}{8}$ ". Wt., 1 lb.

87 F 057. NET.....28.50

WG-91A 5" OSCILLOSCOPE

5" wide-band oscilloscope for black-and-white and color TV servicing. Features: Dual-band response; wide-band position flat within ± 1 db from 10 cps to 4.5 mc and narrow-band position flat within -6 db from 10 cps to 1.5 mc, and voltage-calibrated, frequency-compensated 3-to-1 step attenuator. Removable, multi-scale graph screen. Vertical polarity reversal switch. Preset vertical and horizontal sweep positions. Built-in calibration for peak-to-peak voltage measurements. Plus or minus internal sync selector. Sensitivity is 0.05 volt peak-to-peak per inch (0.018 volt rms) in narrow-band position and 0.150 volt peak-to-peak per inch (0.053 volt rms) in wide-band position. Vertical input impedance 75 mmf and 1 meg direct, and 11 mmf and 10 meg low-capacity position, with WG-300B probe supplied. 5U1 CRT. $13\frac{1}{2} \times 9 \times 16\frac{1}{2}$ ". For 105-125 v., 50-60 cycle AC. Shpg. wt., 33 lbs.

84 FU 049. NET.....239.50

WG-300B DIRECT/LOW-CAPACITANCE PROBE. Shpg. wt., 1 lb.

87 F 059. NET.....14.25

WG-302A DEMODULATOR PROBE. Use with WG-300B to extend scope range to 250 mc. Input, 2.2 mmf. Shpg. wt., 1 lb.

87 F 060. NET.....8.50



WT-100A

WT-100A MICRO-MHO-METER

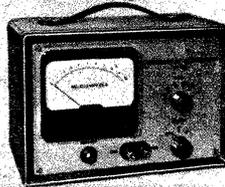
A remarkably accurate, laboratory-type instrument. Measures tube characteristics under actual operating-voltage and current conditions, with an accuracy comparable to that of the manufacturer's equipment. Invaluable for design and development work, production-line testing, etc. Measures: true transconductance to an accuracy of better than $\pm 3\%$; transconductance up to 100,000 mhos in 6 ranges; control-grid-to-plate and suppressor-grid-to-plate transconductance.

Measures individual electrode currents, AC heater currents; voltage drop across electron tubes, dry-disc rectifiers and crystal diodes. Built-in calibrating circuit—no null meters or extra devices required. Easy-to-read meter for all measurements. Regulated power supply for DC voltages. Blue-gray case, $8 \times 18\frac{1}{2} \times 23\frac{1}{2}$ ". For 105-125 v., 50-60 cycle AC. Shpg. wt., 110 lbs.

87 FZ 087. NET.....949.00

Ultra-Sensitive Lab-Quality Test Instruments

WV-84B



WV-84B DC MICROAMMETER

An extremely sensitive, battery-operated unit for measuring minute currents. When used with external multiplier resistors (supplied), becomes a high-resistance voltmeter with an input resistance of at least 100 megohms per volt. Measures resistances from 900 to 90,000 megohms. Reads to 1000 microamps in 6 ranges; reads current below 1 billionth amp. Voltage drop at full scale, $\frac{1}{2}$ volt, all ranges. Overall accuracy, $\pm 4\%$. Negligible loading of circuit under test. Meter protected from burnout. Includes 2 multiplier resistors. Less batteries (requires 2-VS004 $1\frac{1}{2}$ -v. and 2-VS102 $22\frac{1}{2}$ -v. batteries, below). Blue-gray case, $7\frac{1}{2} \times 10\frac{1}{2} \times 6\frac{1}{4}$ ". Shpg. wt., 10 lbs.

87 F 074. NET.....110.00

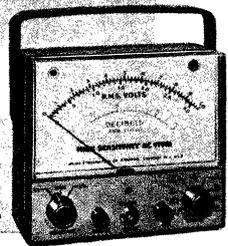
RCA VS004 $1\frac{1}{2}$ -V. BATTERY. Shpg. wt., $1\frac{1}{2}$ lbs.

80 J 901. NET EACH.....1.16

RCA VS102 $22\frac{1}{2}$ -V. BATTERY. Wt., $1\frac{1}{4}$ lbs.

80 J 951. NET EACH.....1.77

NEW



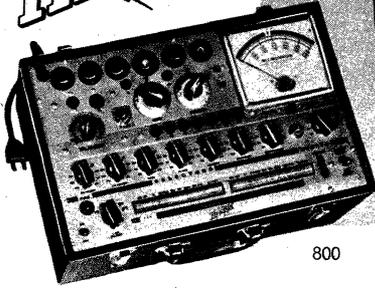
WV-74A

NEW WV-74A AC VTVM

A high-sensitivity instrument for measuring AC voltages as low as 0.001 volt. Tests frequency response of preamps, amplifiers and tone control circuits; measures general audio voltages; traces signals; etc. Extremely wide voltage range—from 10 mv to 100 v., full scale. Easy-to-read $6\frac{1}{2}$ " meter, with rugged 200-microamp movement. High input impedance of 1 meg shunted by 58 mmf, permits measurement in circuits sensitive to loading. 9 AC voltage ranges in 3-to-1 steps: 0.01-0.03-0.1-0.3-1.0-3.0-10-30 and 100 v. rms full scale. Wide frequency response, flat within $\pm \frac{1}{2}$ db from 20 to 500,000 cps on all ranges. Accuracy, $\pm 4\%$. Reads from -40 db to +40 db in 9 ranges. Built-in amplifier may be used as preamp—only 0.5% distortion; 38 db gain on 10 mv range. $6\frac{1}{2} \times 7 \times 3\frac{3}{4}$ ". With WG-300B direct/low-capacitance probe. For 105-125 v., 50-400 cycles AC. Wt., 7 lbs.

87 FU 083. NET.....99.50

TUBE TESTERS AND TEST INSTRUMENTS

800

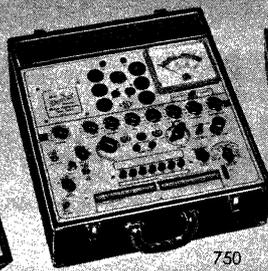
NEW MODEL 800 TUBE TESTER

Lightweight, portable dynamic mutual conductance tube tester. Weighs only 16 pounds—ideal for professional radio and TV servicemen to use for both on-location and shop-bench jobs. Tests receiving-type tubes under simulated operating conditions; also tests out-of-circuit transistors. Includes tests for latest miniature and sub-miniature-type tubes and 600-ma series-string filament tubes.

An improved version of the popular 600 series testers, the 800 features an improved leakage test with direct meter readings. Easily detects hard-to-locate weak tubes. Tests for gas content and for shorts. The easy-to-read triple-scale 5" lucite-case meter has ranges of 0-3000-6000-15,000 micromhos and "REPLACE—?—GOOD". The roll chart groups the most commonly-used tubes separately—making it easy to quickly locate desired tube type. Housed in a red leatherette-covered case.

Cover is removable to permit easy access. Size (HWD): 16 $\frac{3}{4}$ x7 $\frac{1}{2}$ x11 $\frac{3}{4}$ ". For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 21 lbs.

87 FU 187. NET.....159.50

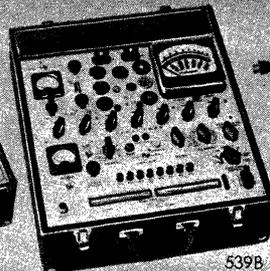


750

MODEL 750 TUBE TESTER

Portable dynamic mutual conductance tester for accurately testing all types of radio and TV receiving tubes—including the 600-ma series-string types. Also checks ruggedized types used by airlines, hearing aid tubes and voltage regulator tubes—accurate DC voltmeter measures 0-200 volts; DC milliammeter, 0-200 ma. Permits matching of tubes such as 6SN7 for critical circuits. 5" meter reads 0-1500-3000-6000-15,000-30,000 micromhos—also 0-200 v. DC and 0-100 ma DC scales. Has two "Replace-Good" ranges. Tests for shorts, gas, noise, and gives probable tube life. Provides a choice of two plate and screen voltages and four AC signal voltages. Size (HWD): 18 $\frac{3}{4}$ x16 $\frac{3}{4}$ x7 $\frac{1}{2}$ ". For operation from 110-125 v., 50-60 cycle AC. Shpg. wt., 24 lbs.

84 FU 633. NET.....269.90



539B

MODEL 539B TUBE TESTER

Laboratory-type dynamic mutual conductance tube tester. Measures mutual conductance under simulated operating conditions. Tests all receiving-type and voltage regulator tubes, selenium and germanium diodes. Uses 3 meters. Micromhometer with 8 ranges: 60,000-30,000-15,000-6000-3000-600 micromhos; Rectifier Diode Range; VR Range. Separate AC meter for line voltage check and separate DC voltmeter for grid bias readings. 4 AC signals (25, 5, 1, 2.5 v.). Normal and low plate and screen voltages. Reads leakage up to 50 megohms. Tests for shorts, gas, noise and gives probable tube life. Black leatherette-covered portable carrying case. Size (HWD): 16 $\frac{3}{4}$ x18 $\frac{3}{4}$ x7 $\frac{1}{2}$ ". For operation from 110-125 volts, 50-60 cycle AC. Shpg. wt., 39 lbs.

84 FU 608. NET.....399.00



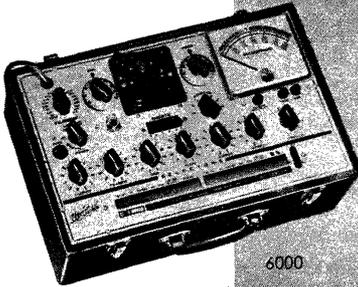
533AP

MODEL 533AP TUBE TESTER

Portable tube tester—specially designed for servicing radio-TV and communications equipment. Reads mutual conductance in micromhos—tests tubes under simulated operating conditions. Ranges: 0-3000-6000-15,000 micromhos. Locates shorts and leakages, tests for noise and for gas content. Detects weak, borderline tubes. Predicts probable tube life. Large, 5" meter with accurately calibrated scale.

Instrument has a line voltage adjustment feature. Tester is calibrated for 60-cycle use. Top-cap test leads are supplied that plug into grid and plate jacks on the panel. Fused bias potentiometer. Sturdy, black leatherette portable case has detachable cover to permit easy access when tester is in use. 16 $\frac{3}{4}$ x18 $\frac{3}{4}$ x7 $\frac{1}{2}$ ". For 110-120 volts, 50-60 cycle AC. Shpg. wt., 50 lbs.

84 FU 187. NET.....217.85



6000

MODEL 6000 TUBE TESTER

- Latest Version of Famous "600" Series
- 1-2-3 Push Button Operation Saves Time
- Speedy Transconductance Readings

For accurate, high-speed testing. Roll chart groups most commonly-used tubes separately—speeds testing. Features: constant line voltage indication; quick, easy identification of shorted elements; tests for gas content; plug-in socket replacements on socket plate. 5" meter has 0-3000-6000-15,000 micromhos and "REPLACE—?—GOOD" ranges. With RSP-4 removable socket plate. 16 $\frac{3}{4}$ x7 $\frac{1}{2}$ x11 $\frac{3}{4}$ ". For 110-120 v., 50-60 cycle AC. Wt., 21 lbs.

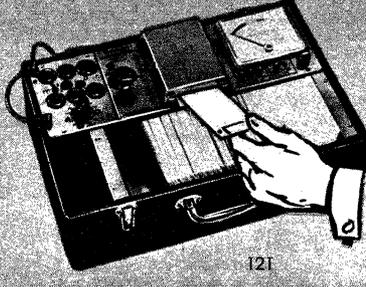
87 FU 181. NET.....189.25

MODEL 6005. As above, but with built-in 20,000 ohm/v. VOM and RSP-2M socket plate. Shpg. wt., 22 lbs.

87 FU 182. NET.....224.00

CRT TESTER ADAPTER. 1 lb.

84 F 184. NET.....10.25



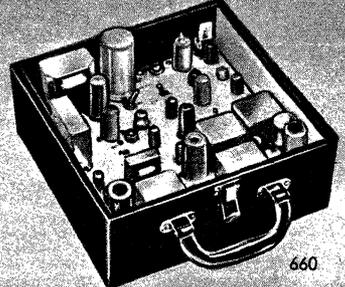
121

MODEL 121 CARDMATIC TUBE TESTER

- Remarkable Speed and Accuracy
- Just Insert Cards—No Roll Chart
- Cards Automatically Set Up Test Circuit

An automatic mutual conductance tube tester featuring simplified card operation for speed and accuracy. Perforated vinyl cards set up entire circuit for complete range of dynamic tests—saves time and eliminates chance for error. Features "Tailored Tests"—checks under actual operating conditions according to application. For example, a 6SN7 can be tested either as an amplifier or a multivibrator, or both together. The "Cardmatic" provides sensitive short and leakage tests, quantitative gas test, and "Knee test" to evaluate sweep circuit performance. Checks sections of twin tubes individually. Complete with 325 attached cards. Case, 19 $\frac{3}{4}$ x8x13 $\frac{3}{4}$ ". For 110-120 v., 50-60 cycle AC. 40 lbs.

87 FU 186. NET.....249.50



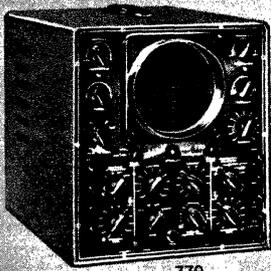
660

MODEL 660 DOT-BAR GENERATOR

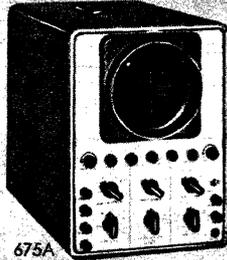
Compact, portable white dot-bar color display generator designed for "on-the-spot" adjustment of color TV receivers. Accurate color hue tests may be made even in the absence of a station signal.

All frequencies generated are crystal-controlled and lock together for rigid stability to reduce chance for alignment error. Has an exceptionally stable timer circuit. Features switch selection of RF output up to .05 v. on TV channels 2 to 6. 300 white dots, less those in blanking; 20 vertical and 15 horizontal white crosshatch lines, less those in blanking. Color display pattern; crystal accurate in sequence of red, blue and green. RF modulated (60%) by all video outputs. Housed in sturdy, black leatherette, portable case. With 2 crystals, output cable and instructions. Size, 10 $\frac{1}{2}$ x10 $\frac{1}{2}$ x5 $\frac{1}{4}$ ". For operation from 105-125 v., 50-60 cycle AC. Shpg. wt., 20 lbs.

87 FU 175. NET.....243.00



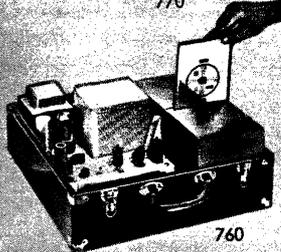
770



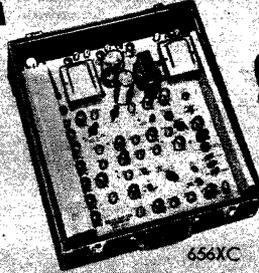
675A



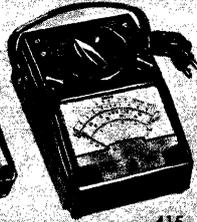
455A



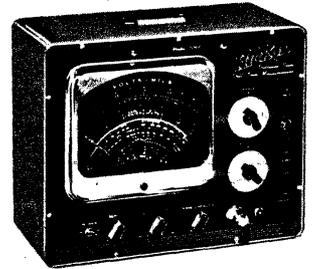
760



656XC



415



MODEL 209A VTVM

- Light Loading—Only 7 mmf
- Flat Response to 300 mc
- Big, Zero-Center 9" Meter

A professional-quality VTVM that includes provisions for measuring inductance and capacitance. Large, zero-center 9" laboratory-type meter for maximum visibility. Flat response from 30 cps to 300 mc. High input impedance: DC, 12 megs; AC, 12 megs shunted by 7 mmf (3 megs on 1200 v. scale). Measurements as low as 1/10 ohm.

Ranges: AC-DC volts, 0-3-12-30-120-300-1200; DC current, 0-3-12-30-120-300-1200 ma; Resistance, .1 ohm to 10,000 megs in 8 ranges; capacitance; 1 mmf. to 1000 mfd. in 7 ranges; inductance, 50 mh to 100 henries (with conversion chart provided); db, -20 to +25 in 3 ranges; AC peak-to-peak, 0-3-12-30-120-300. 13 1/4 x 16 1/4 x 7 1/2". With AC and DC probes, test leads. For 105-125 v., 50-60 cycle AC. Shpg. wt., 25 lbs.
84 FU 136. NET. 140.25
PR-30KVA PROBE. For above. Extends range to 30 KV DC. Shpg. wt., 1 1/2 lbs.
84 F 149. NET. 16.40

MODEL 770 LABORATORY SCOPE

Wide-band, 5" oscilloscope for professional use including color TV servicing. Dual bandwidth for flat response and maximum sensitivity. **Wide band:** Frequency response 0 to 5 mc within 3 db; vertical sensitivity, 35 rms mv/inch. **Narrow band:** Frequency response, 0 to 2.5 mc, 3 db down;—sensitivity, 10 rms mv/inch. Horizontal response,—3 db from 0 to 500 kc—sensitivity, 75 rms mv/inch. Sweep frequency from 2 to 30,000 cps. 14x12 1/2". For operation from 110-120 v., 50-400 cycle AC. Shpg. wt., 60 lbs.

84 FZ 606. NET. 398.00

84 F 138. Model 34 Demodulator Probe. Extends RF range to 500 mc. 1 1/2 lbs. NET. 5.75

84 F 162. Model TVP-1 Probe. Low impedance. Wt., 2 lbs. NET. 11.50

MODEL 675A WIDE-BAND SCOPE

Wide-band, high sensitivity, 5" oscilloscope for color TV as well as FM and AM use. Features 4.5-mc bandwidth and 20 rms mv/inch vertical sensitivity. Illuminated, calibrated screen with astigmatic focus provides exceptional trace detail. Vertical response within 3 db from 1 cps to 4.5 mc—flat through 3.58-mc color burst. Switch for reverse polarity of vertical trace. Voltage calibrator. Horizontal response within 3 db from 1 cps to 450 kc—sensitivity is 250 rms mv/inch. Sweep frequency, 10 cps to 100 kc. Has input for intensity modulation. 13x10x16". For operation from 110-120 v., 50-400 cycle AC. Shpg. wt., 43 lbs.

84 F 634. NET. 299.90

MODEL 760 VIDEO SCANNER

A complete cable-connected TV transmitting station. Instantly scans and produces a video or RF signal from slide. Reproduces your own test patterns. Extremely useful for TV servicing. Can also be used to project advertisements or signs on TV sets in store or in window. Will operate any black-and-white or color TV receiver. Portable—for on-location servicing.

RF output, 100,000 microvolts—enough to drive several receivers simultaneously. Video output, 2 volts peak-to-peak; choice of positive or negative output. Variable sync level; permits test of how well a TV receiver locks-in on high or low sync levels.

Completely crystal controlled. Supplied with bar, dot, standard test pattern, and transparent blank slides. Size, 19 1/2 x 17 x 8 1/4". For operation from 105-125 v., 50-60 cycle AC. Shpg. wt., 50 lbs.

87 FZ 185. NET. 359.90

656XC TV COLOR BAR GENERATOR

Accurate white dot crosshatch and color bar generator. Supplies a self-checking standard 100% NTSC pattern. Crystal-controlled 3.58 mc color burst. Provides demodulator alignment signals; I, Q & R-Y & B-Y signals. Video output, 0-2 volts p-to-p open circuit. RF output, modulated with color bar pattern, on channels 2 to 6. Produces white dot crosshatch: 20 vertical and 15 horizontal, less those in blanking; 300 dots, less those in blanking; also provides vertical and horizontal lines. Sound carrier for setting local oscillator. Leatherette-covered case. Size, 7 1/2 x 16 3/4 x 18 3/8". For 110-120 v. 60 cycle AC. Shpg. wt., 42 lbs.

87 FU 176. NET. 495.00

MODEL 415 VTVM

Compact vacuum tube voltmeter. Ideal for servicing and laboratory use. Features modern "laydown" design. Ranges: AC (rms) and DC volts, 0-1.5-5-15-50-150-500-1500. Zero center DC ranges for instant polarity identification. DC input impedance is 13.3 megohms. AC input capacity is 10 megohms shunted by 150 mmf.; frequency response, 50 cps to 2.5 mc. Ohmmeter is readable from 0.2 ohms to 2000 megohms. Resistance ranges: 0-2000-20,000-200,000 ohms and 0-2-200-2000 megohms. Center-scale, 10 ohms. With leads. Requires no batteries. 3x5 7/8 x 8 1/2". For 110-120 v., 50-60 cycle AC. Shpg. wt., 6 lbs.

87 F 178. NET. 82.00

MODEL 455A INDUSTRIAL VOM

Compact, portable VOM. Rugged design withstands hard use. Unique overload circuit cut-out and fuse system protects meter and components against burn-out on any function including ohms. Single switch selects function and range. Sensitivity: 20,000 ohms-per-volt AC-DC. Ranges: AC-DC v., 0-3-12-30-120-600-1200; resistances, 0 to 100 megs in 4 ranges—5 ohms center scale; current, 0-50 ma, 0-1-10-100-1000 ma, 0-10 amps. 3x5 7/8 x 8 1/2". With test leads. Less batteries. Uses 1 Burgess V20 and 1 No. 2; see page 425. 5 1/2 lbs.

84 F 609. NET. 66.50

CARRYING CASE. For above. 455A or 415. 1/2 lb.

84 F 635. NET. 9.00

Sprague Test Instruments

MODEL TO-5 TEL-OHMIKE

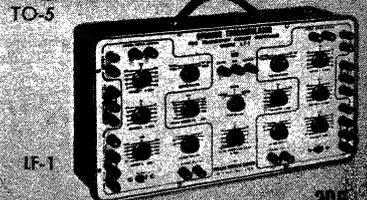
Multi-purpose bridge-type capacitor analyzer. An accurate multi-range capacitance and power factor measuring bridge; an insulation resistance checker for paper, mica, and ceramic capacitors; a leakage current indicator for electrolytics (tests at rated voltages). Measures 1 mmf to 2000 mfd. 8 7/8 x 14 5/8 x 6 1/8". For 110-120 v., 50-60 cycle AC. Shpg. wt., 12 1/2 lbs.

66 FX 591. NET. 82.22

MODEL LF-1 TRANSIMULATOR

For simulating any 1-transistor amplifier, except high-power audio stages. Has all variable components necessary for an RC amplifier. With 5-way binding posts for coupling and metering circuits. Can be used with PNP, NPN junction or surface barrier transistors; common or grounded emitter, base or collector. Less batteries (8—RCA VS035; see p. 426). 5 1/8 x 14 1/4 x 8 1/2". Shpg. wt., 11 1/2 lbs.

66 FX 592. NET. 77.91





TEST EQUIPMENT



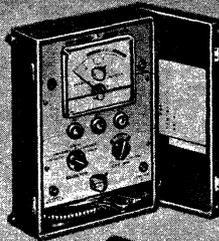
NEW

Model 1075 Television Analyst

A miniature TV transmitter, specially designed to reduce time and labor in black-and-white and color TV trouble-shooting—one of the most valuable servicing aids ever developed. Injects RF, IF, video, or audio signal into TV set for easy isolation of defective stage. Supplied with slide transparencies which provide standard test pattern, crosshatch pattern, and white-dot pattern; generates "rainbow" pattern for color television receivers. Quickly isolates and pin-points TV difficulty.

Standard pattern allows adjusting television set for best linearity, sensitivity, AGC action, bandwidth and resolution, and for proper size and aspect ratio. White-dot and crosshatch patterns are for adjusting color convergence, color demodulators, etc. RF and IF signals are video and audio-modulated; positive and negative video signal. Separate horizontal and vertical drive pulses. Includes 4.3-mc FM sound channel; 400-cycle tone generator.

Generates RF frequencies for channels 2-13; covers IF range from 25-45 mc. May be used as a store sales aid—you can insert your own "sales message" slides and they will appear in black-and-white on any set to which unit is connected. $16\frac{1}{2} \times 10\frac{3}{4} \times 9\frac{1}{2}$ ". For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 36 lbs.
87 FU 213. \$25.48 Down. NET... 254.75

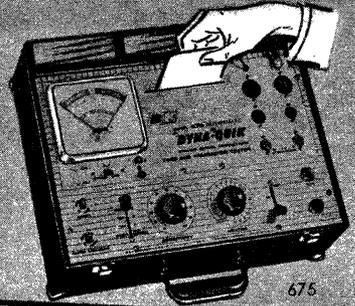


400

MODEL 400 REJUVENATOR-TESTER

Unique TV picture tube rejuvenator-tester. Checks tube while still in set. Detects opens between base pins and elements; shorts, leakage between elements. Checks cathode emission, grid bias cut-off voltage. Repairs shorts between elements, open connections to elements, and restores weak emission. Predicts probable tube life. $4\frac{1}{4}$ " meter. In portable, leatherette-covered case. $5 \times 7\frac{1}{2} \times 11\frac{1}{4}$ ". For operation from 105-125 v., 60 cycle AC. Shpg. wt., $8\frac{1}{2}$ lbs.
84 FX 643. \$5.88 Down. NET... 58.75

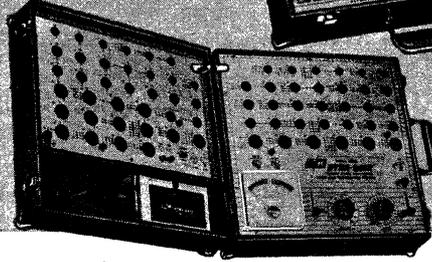
MODEL C40 COLOR ADAPTER. Adapts Model 400 and earlier Model 350 for testing and rejuvenating 110° and color picture tubes. Checks each gun of color CRT for continuity, inter-element shorts, opens, leakage, etc. Shpg. wt., 1 lb.
87 F 279. NET... 9.75



675

MODEL 675 AUTOMATIC TUBE & TRANSISTOR TESTER

Portable, card-controlled "Dyna-Quik" dynamic mutual conductance tester. Card automatically selects connections for quick, accurate test. Utilizes only 60 cards for testing over 500 tube types—over 95% of all popular TV tubes. Checks each section of multi-section type tubes separately. Tests for shorts, grid emission and probable tube life. $4\frac{1}{2}$ " meter has "Good-Bad," 0-6000-18,000 μ hos scales, 7 and 9-pin min. tube straighteners. Automatic line compensation. Tests Ico and forward gain ratio of junction, point contact, and barrier transistors; front-to-back ratio of germanium and silicon diodes; and selenium and silicon power rectifiers. $15\frac{1}{2} \times 12\frac{1}{4} \times 6$ ". With cards and index. For 105-125 v., 60 cycle AC. Shpg. wt., 14 lbs.
87 FU 284. \$16.66 Down. NET... 166.55



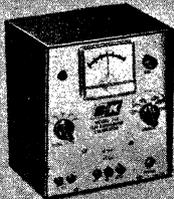
650

MODEL 650 TUBE & TRANSISTOR TESTER

Highly versatile, portable "Dyna-Quik" dynamic mutual conductance tester. Tests transistors and virtually all popular television receiving tubes. Checks each section separately—requires very little switching. Large $4\frac{1}{2}$ " plastic-faced meter has "Good-Bad," 0-6000 and 0-18,000 μ hos scales, 7 and 9-pin miniature tube pin straighteners and 16 spare sockets mounted on panel. Automatic line compensator. Detects shorts, grid emission, probable tube life, and gas. Accurately tests tubes under actual operating conditions of the set.

Tests Ico and forward gain ratio of junction, point contact, and barrier transistors; F/B ratio of germanium, silicon and selenium diodes. Has separate sockets for NPN and PNP type transistors. Convenient "Quik-Flip" indexed tube selector provides fast, complete tube socket and setting reference. Ideal tester for service shop and home service calls. Easily portable in sturdy, luggage-type carrying case. $15\frac{1}{2} \times 15\frac{1}{2} \times 6\frac{1}{2}$ ". For operation from 105-125 volts, 60 cycle AC. Shpg. wt., 22 lbs.
87 FU 280. \$16.66 Down. NET... 166.55

Industrial Test Equipment



750

750 TEST EQUIPMENT CALIBRATOR

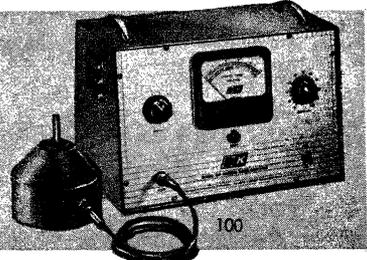
Combination voltage, resistance, and frequency standard. Quickly checks the accuracy of any test instrument. Provides the following voltages $\pm 1\%$ or better: DC—2, 5, 25, 100 and 300; AC—5, 25, 100 and 300. Resistances: 10, 100, 1000, 10,000, 100,000 ohms and 10 megs. Built-in crystal oscillator generates harmonics well over VHF region; tone generator for use alone or for modulating oscillator. Provides tone signal to check audio amplifiers in AM, FM or TV set. Size: $8\frac{3}{4} \times 8 \times 5\frac{1}{2}$ ". Supplied with 5-mc crystal. For 110-120 v., 60 cycle AC. Shpg. wt., 8 lbs.
87 F 253. NET... 53.85



150

150 TRANSISTOR TESTER

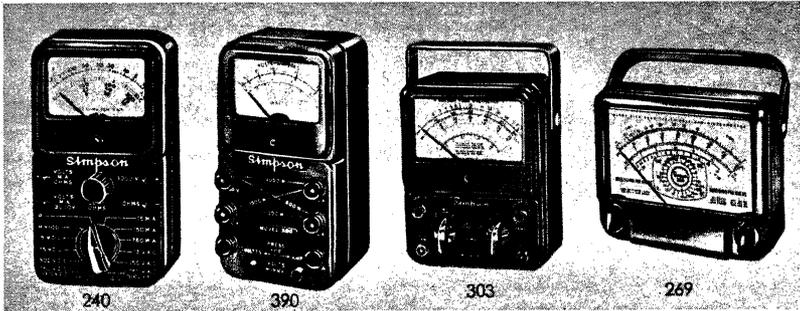
Clearly measures grounded emitter current gain of all transistors, including power types. Uses 1 kc signal for true small signal measurement. Meter reads 0.50-250 beta; 0.50-200 μ A Ico; 0-20 ma for power transistors; and 20-80% diode front-to-back ratio. Special circuitry prevents damage to test instrument and transistor. Tests power transistors at 100 ma bias current. Tester also provides choice of 4 collector voltages; mercury cell power supply (cells included). Ruggedly constructed case has convenient handles for easy portability. Size, $14 \times 8\frac{1}{2} \times 7\frac{3}{8}$ ". Shpg. wt., 11 lbs.
87 FU 288. NET... 175.91



100

100 SHORTED TURNS INDICATOR

New extremely accurate indicator for quickly testing coils. Instantly tests for shorts and open circuits—before coil is mounted onto a relay, transformer, etc. Ideal for production testing, inspection and laboratory use—adaptable to meet individual requirements. Built-in vacuum tube voltmeter shows "Pass-Reject" condition; red panel-light indicator flashes when defective coil is tested. With 3 probe-test rods: $\frac{3}{16}$ " dia.; $\frac{5}{32}$ " dia.; $\frac{1}{8} \times \frac{1}{16}$ ". Metal case. $14 \times 8 \times 8$ ". For operation from 110-120 v., 60 cycle AC. Shpg. wt., 15 $\frac{1}{2}$ lbs.
87 FU 215. NET... 175.91



Simpson

TEST EQUIPMENT



NEW

Series III Model 260 VOM

Latest version of this time-tested VOM. Has polarity reversing switch, 5000 ohms/v. AC sensitivity, rugged printed circuit, full-wave bridge rectifier, response to 500,000 cps. DC sensitivity, 20,000 ohms/v. Ranges: DC mv, 0-250; AC and DC v., 0-2.5-10-50-250-1000-5000; AF output v., 0-2.5-10-50-250; DC μ a, 0-50; DC ma, 0-1-10-100-500; DC amps, 0-10; resistance, 0-20 megohms in 3 ranges, $5\frac{1}{4} \times 7 \times 3\frac{1}{2}$ ". With batteries and test leads. Shpg. wt., 5 lbs.

87 F 111, \$4.30 Down. NET..... 43.07

MODEL 260RT. As above, but in "roll top" case. $6\frac{3}{8} \times 9 \times 4\frac{3}{4}$ ". Shpg. wt., 9 lbs.

87 F 112, \$4.90 Down. NET..... 48.95

HIGH-VOLTAGE PROBE. Extends DC range to 25,000 volts. Shpg. wt., 8 oz.

84 F 771, NET..... 9.75

TYPE 0248 PROBE. Extends DC range to 50,000 volts. Shpg. wt., 8 oz.

87 F 115, NET..... 12.25

TYPE 7500 SPARE LEADS. Wt., 1 lb.

87 F 116, NET..... 2.06

CASES FOR MODELS 260 AND 303. Eveready type case permits using meter in case. Av. shpg. wt., 2 lbs.

84 F 721, Eveready Case. NET..... 9.55

84 F 782, Standard Case. NET..... 7.59

MODEL 240 HAMMETER. Popular, low-cost VOM. Sensitivity, 1000 ohms/v on AC and DC. DC volts, 0-3000. AC volts, 0-3000; DC ma, 0-750; ohms, 0-3000-300,000. Bakelite case, $3 \times 5\frac{1}{8} \times 2\frac{1}{2}$ ". Complete with battery, leads. Shpg. wt., 3 lbs.

84 F 787, \$2.84 Down. NET..... 28.37

MODEL 390 VOLT-AMP-WATTMETER. Accurately measures power consumption of any 60 cycle AC appliance, radio or TV. Speeds trouble-shooting. Ranges: AC volts, 0-150 and 0-300; amps, 0-3 and 0-15; watts, 0-300, 0-600, 0-1500 and 0-3000. Has 3" meter. Size, $5\frac{7}{8} \times 3 \times 2\frac{1}{2}$ ". Supplied with break-in plug and leads. Shpg. wt., 4 lbs.

84 F 788, \$1.31 Down. NET..... 43.07

MODEL 370 AC AMMETER. (Not illus.) Ranges: 0-1-2.5-5-10-25 amperes. Built-in current transformer, 3" meter. Size: $3 \times 5\frac{1}{8} \times 2\frac{1}{2}$ ". Less leads. For measurement of 60 cycle AC only. Shpg. wt., 3 lbs.

84 F 794, \$2.15 Down. NET..... 21.51

MODEL 303 VTVM. Compact, accurate VTVM. Ranges: AC and DC volts, 0-1.2-12-60-300-1200; AC volts, 0-1.2-12-60, flat to 100 kc; resistance, 0-1000-100,000 ohms and 0-1-10-1000 megohms. Also reads decibels from -20 to +63 in 5 ranges. Large $4\frac{1}{2}$ " dial scale with easy-to-read calibrations. Bakelite case, $7 \times 5\frac{1}{8} \times 3\frac{1}{2}$ ". With DC and AC-Ohms probes; less RF probe (listed below). For operation from 110-120 volts, 60 cycle AC. Shpg. wt., $6\frac{1}{2}$ lbs.

84 F 712, \$6.66 Down. NET..... 66.64

MODEL 303 RT. As above, but in "roll top" case. Shpg. wt., 8 lbs.

84 F 725, \$7.45 Down. NET..... 74.48

HV PROBE. Extends DC volts range to 30,000 volts. Shpg. wt., 1 lb.

84 F 715, NET..... 9.75

RF PROBE. Accurately measures RF volts. Shpg. wt., 1 lb.

84 F 716, NET..... 7.35

MODEL 269 MICROAMMETER VOM AND ACCESSORIES

Sensitive, 100,000 ohms/volt multimeter. Accurate, wide-range VOM for lab or shop. Battery-operated; 33 ranges; 7" dial; 2 controls. Ranges: DC current, 0-16-160 microamps, 0-1.6-16-160 milliamperes and 0-1.6-16 amperes, DC volts, 0-1.6-8-40-160-400-1600 (100,000 ohms/volt); AC volts, 0-3-8-40-160-800; output volts, 0-3-8-40-160; resistance, 0-2000-20,000-200,000 ohms, 0-2-20-200 megohms. Size: $8 \times 6 \times 3$ ". Supplied complete with test leads, 4000-v. DC probe, batteries and highly informative operator's manual. Shpg. wt., 6 lbs.

84 F 726, \$8.62 Down. NET..... 86.24

HI-VOLTAGE PROBE. Extends DC range of Model 269 to 40,000 volts. 2 lbs.

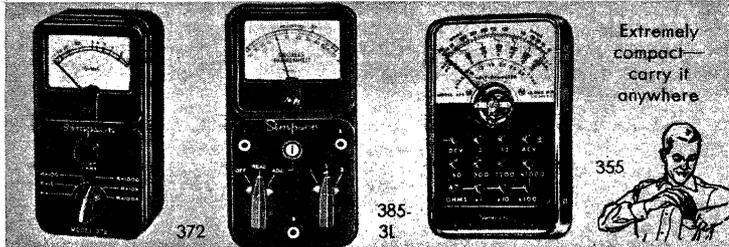
84 F 742, NET..... 12.25

MODEL 262. Similar to 269, but resistance ranges, 0-500-5000-50,000-500,000 and 0-5-50-megohms; DC current, 0-80-160 μ a; 1.6-16-160 ma and 0-1.6-16 amps. Sens.: 20,000 ohms/v. DC; 5000 ohms/v. AC. Less case, 6 lbs.

84 F 727, \$5.83 Down. NET..... 58.31

MODEL 5262 CARRYING CASE. Vinyl case for 269 and 262. $7 \times 8 \times 4$ ". Shpg. wt., 2 lbs.

84 F 728, NET..... 9.75



MODEL 372 OHMMETER. Accurate, wide-range ohmmeter. 3" meter. Basic movement has a sensitivity of 85 microamperes. Ranges: 0-500 (5 ohms center), 0-5000 (50 ohms center), 0-50,000 (500 ohms center), 0-5 megohms (50,000 ohms center), 0-50 megohms (500,000 ohms center). With batteries and test leads, $3 \times 5\frac{1}{8} \times 2\frac{1}{2}$ ". Shpg. wt., 3 lbs.

84 F 796, \$2.74 Down. NET..... 27.39

MODEL 373 DC MILLIAMMETER. 0-1-5-10-25-50-100-250-1000 ma. Size: $3 \times 5\frac{1}{8} \times 2\frac{1}{2}$ ". Shpg. wt., 3 lbs.

87 F 117, NET..... 19.55

MODEL 374 DC MICROAMMETER. 0-50-100-250-500-1000 μ a. $3 \times 5\frac{1}{8} \times 2\frac{1}{2}$ ". 3 lbs.

87 F 118, NET..... 22.54

MODEL 375 DC AMMETER. 0-1-2.5-5-10-25 amps. $3 \times 5\frac{1}{8} \times 2\frac{1}{2}$ ". Wt., 3 lbs.

87 F 119, NET..... 19.55

MODEL 385-3L TEMPERATURE METER. For servicing refrigeration equipment. Range: -50° to +70° F. $3 \times 5\frac{1}{8} \times 2\frac{1}{2}$ ". 2 lbs.

87 F 120, \$3.33 Down. NET..... 33.27

MODEL 355 MIDGETESTER. Miniature, highly accurate VOM. Fits in palm of hand, 10,000 ohm/volt sensitivity on AC and DC. Checks motors, relays, control circuits, house voltages, starting switches, fuses, etc. Accuracy: $\pm 3\%$ on DC; $\pm 5\%$ on AC. 100 microamp, self-shielded and shockproof meter movement. Handy ohms zero-adjust thumbwheel on side of case. Ranges: AC and DC volts, 0-3-12-60-300-1200. Resistance: 0-10,000-100,000 ohms, 0-1-10 megohms. Function and range selection by insertion of leads. Rugged, molded styrene case. Size: $2\frac{3}{8} \times 4\frac{1}{2} \times 1\frac{1}{8}$ ". Supplied complete with batteries, test leads and informative operator's manual. Shpg. wt., 2 lbs.

84 FC 734, \$3.43 Down. NET..... 34.25

TYPE 6355 CASE. For above. High quality, black leather with zipper. Convenient belt loop. Shpg. wt., 3 oz.

84 F 741, NET..... 2.89

TYPE 8600 SPARE TEST LEADS. For above. Shpg. wt., 1 lb.

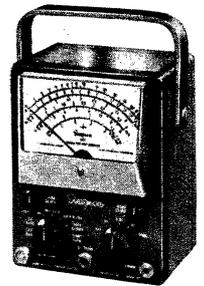
87 F 108, NET..... 1.71

Extremely compact—carry it anywhere



NEW

Big $4\frac{1}{2}$ " meter—provides readings at a glance



Model 311 VTVM

Highly sensitive VTVM. Easy-to-read ranges: 0-1.5-5-15-50-150-500-1500 DC volts; 22 megohms input impedance. AC voltage: 0-1.5-5-15-50-150-500-1500; 2.2 megohms input impedance minimum. Resistance: 0-1K-10K-100K ohms and 0-1-10-100-1000 megohms. AF voltage: 0-1.5-5-15-50-150-500-1500, 30 cycles to 100KC $\pm 5\%$. Peak-to-Peak: 0-4-14-40-140-400-1400-4000. Zero center scale for discriminator alignment. Complete with single DC-AC/ohms probe. Sturdily constructed case, $7\frac{1}{2} \times 5\frac{1}{8} \times 4\frac{1}{2}$ ". For 105-125 volts, 50-60 cycle AC. Shpg. wt., 8 lbs.

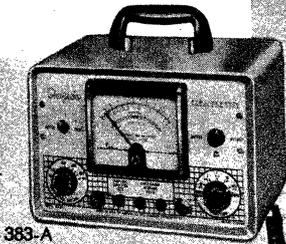
87 F 121, \$6.37 Down. NET..... 63.65

MODEL 0732 HIGH-VOLTAGE PROBE. Extends DC range to 30,000 v. 1 lb.

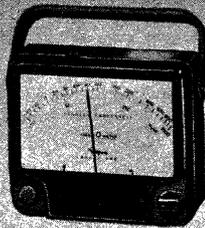
87 F 122, NET..... 10.73

Simpson

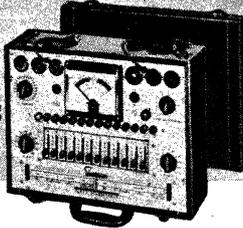
TEST EQUIPMENT



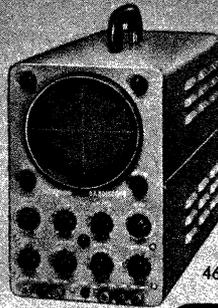
"Pulse Test" easily detects borderline capacitors on verge of failure



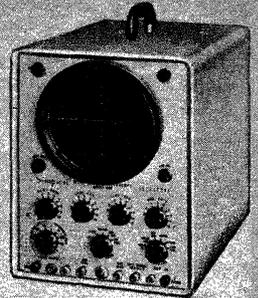
388-3L



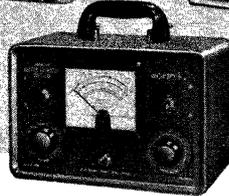
1000



466



458



382

MODEL 383-A CAPACOHMMETER

"In-or-out-of-circuit" capacitor leakage tester. Indicates leakage and measures capacitance of paper, mica or ceramic capacitors. No unsoldering is necessary. Pulse test quickly detects "borderline" capacitors. $4\frac{1}{2}$ " meter. Indicates leakage in ohms—checks for direct short, open, or intermittent conditions in all types of bypass, coupling and blocking capacitors from 10 mmf to 10 mfd. Also detects leaks in wiring, sockets, transformers, etc. $8\frac{3}{4} \times 11\frac{1}{8} \times 8\frac{1}{2}$ ". With test leads. For 110-120 volts, 60 cycle AC. Shpg. wt., 11 lbs.

84 FX 630. NET..... 88.15

MODEL 388-3L THERM-O-METER

Thermocouple thermometer. For gases, liquids or solids. Reads -50° to 1000° F, on 7° scale. Has $7\frac{1}{2}$ -ft. general-purpose probe (Type 0190), with provisions for 3 probes. Allows temperature readings in 3 different areas by rotating switch. $6 \times 7\frac{1}{8} \times 2\frac{1}{8}$ ". With battery. Shpg. wt., 6 lbs.

84 F 744. NET..... 63.21

MODEL 388. As above, but with provisions for one probe only. Shpg. wt., 6 lbs.

84 F 738. NET..... 58.31

Type 0187 SURFACE TEMP. PROBE. For 388-3L and 388 above. Shpg. wt., 1 lb.

84 F 745. NET..... 6.81

Type 0190 GENERAL-PURPOSE PROBE. For 388-3L and 388. Shpg. wt., 1 lb.

84 F 746. NET..... 4.85

TYPE 5262 CASE. For 388, 388-3L. 5 oz.

84 F 728. NET..... 9.75

MODEL 389-3L THERM-O-METER. Same as 388-3L but employs thermistor principle of operation. Reads -50° to 250° F. 6 lbs.

87 F 114. NET..... 61.25

NEW MODEL 466 "HANDISCOPE"

New, low-priced general-purpose 5° scope. Rugged, compact and easy to carry—ideal for AM, FM or black-and-white TV servicing. Vertical response: ± 1 db from 15 to 100 kc; 6 db down at 250 kc; usable to 1 mc. Vertical sensitivity: 30 rms mv/inch max. Input resistance and capacitance: 0.1 meg, 40 mmf (at atten.x1) 0.5 meg, 35 mmf (at atten.x100). Sweep range: 15 cycles to 80 kc. Maximum input voltage, 400 v. peak. Size: $12\frac{1}{4} \times 8 \times 16\frac{1}{4}$ ". With lead and operator's manual. For 110-120 v., 50-60 cycle AC. Shpg. wt., 24 lbs.

87 FU 113. \$14.21 Down. NET... 142.05

MODEL 458 COLORSCOPE

7° dual bandwidth, oscilloscope. For black-and-white and color TV. Vernier and compensated decimal step attenuator. Horizontal sweep to 250 kc for expanding high-frequency waveform detail and color burst. Intensity modulation input. Graph screen. Frequency response: Wide-band, ± 2 db to 5 mc; narrow band, ± 1 db, 10 cycles to 200 kc. Deflection sensitivity: Wide band, 25 mv rms/inch; narrow band, 10 mv rms/inch. Calibrating voltage, 6.3 volts rms, 100% response at 3.58-mc color burst. $13\frac{1}{2} \times 11 \times 17\frac{1}{4}$ ". For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 32 lbs.

84 FU 631. \$22.54 Down. NET... 225.35

TYPE 0740 VOLTAGE DOUBLER PROBE. For use with above. Detects the video signal at weak IF points and locates the weak or dead stage. Shpg. wt., $1\frac{1}{2}$ lbs.

87 F 104. NET..... 10.73

MODEL 1000 TUBE TESTER

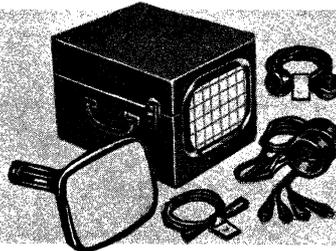
Accurate, plate-conductance tube tester. Tests all receiving tubes, including 9-pin miniature and sub-miniatures with a linear and circular base arrangement. Tests are made under conditions simulating actual use. $4\frac{1}{2}$ " dial indicates percentage of rated plate conductance for an accurate indication of tube condition. Also provides quick, dependable short and leakage tests—shows exact resistance values of shorts and interelement leakage. Each tube element is individually connected to the correct voltage tap—insures against tube damage during testing. Size (HWD): $15\frac{3}{4} \times 11\frac{3}{4} \times 6^{\circ}$ ". For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 19 lbs.

84 FU 723. \$13.23 Down. NET... 132.30

MODEL 382 ANALYZER

In-circuit horizontal system analyzer and capacitance checker. Only plate cap of output tube need be removed for tests! Checks High-Z systems on good-bad scale; checks Low-Z system on comparative logging scale. Tests any transformer or yoke winding for continuity; tests transformers and yokes for opens. Checks individual windings on flyback system for shorts or partial shorts. Measures capacitance and checks for opens in any capacitor of horizontal system. Direct-reading from 10 mmf to 0.1 mfd (checks any capacitor in chassis falling in this range). $4\frac{1}{2}$ " meter. Supplied complete with test leads. Size: $7\frac{3}{4} \times 7\frac{1}{2} \times 11\frac{1}{4}$ ". For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 12 lbs.

87 FX 103. \$6.86 Down. NET... 68.55



Telematic 8 "Tele-Check"

Compact and portable, the "Tele-Check" speeds six circuit testing

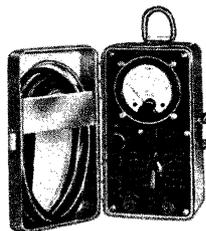
MODEL CR-118. Portable CRT substitution unit. Saves time and trouble by quickly locating and identifying CRT or yoke troubles. Completely self-focusing; no ion trap needed. Works with either electrostatic or electromagnetic focusing TV sets. Can be used with any 52° , 66° , 70° , or 90° deflection yokes. 6-foot CRT extension lead permits convenient placement. Universal yoke is interchangeable with yoke of set under repair. Horizontal and vertical lines on front plate help in making accurate picture adjustments. In leatherette covered carrying case with plastic handle. Supplied with 6-ft. CRT socket extension leads, anode-yoke connecting leads and plastic face plate. With 8AXP4 CRT. $12 \times 11\frac{1}{2} \times 15^{\circ}$ ". Shpg. wt., $11\frac{1}{2}$ lbs.

87 FX 297. \$4.50 Down. NET..... 44.95

MODEL CR-117. As above, but less 8AXP4. Shpg. wt., 9 lbs.

87 FX 296. \$2.70 Down. NET..... 26.95

Chicago Industrial Test Meters

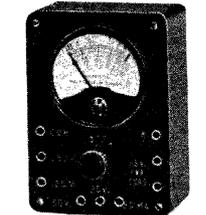


MODEL 431-A VOM WITH HINGED, REMOVABLE COVER. Accurate 18-range volt-ohm-meter. Rugged, military-type aluminum case withstands hard usage. 1% shunts and multipliers. Has 860 μ a meter movement. Ranges: AC-DC volts, 0-15-30-150-300-1500-3000 (at 1000 ohms per volt); DC current, 0-1.5-150 ma and 0-7.5 amps; resistance, 0-10,000-100,000 ohms 0-1 meg. (center scale readings, 50, 600 and 6000 ohms). $6\frac{1}{8} \times 3\frac{3}{4} \times 5\frac{3}{4}$ ". With penlight cells, carrying strap and leads. Wt., $3\frac{3}{4}$ lbs.

87 F 310. \$2.06 Down. NET..... 20.58

MODEL 431-A—LESS COVER. Wt., $3\frac{1}{2}$ lbs.

84 F 309. NET..... 19.11



MODEL 312 VOM. Pocket-size, 6-function VOM. 2° meter. Reads: DC volts, 0-25-50-125-250. AC volts, 0-25-50-125-250. DC ma, 0-50. AC ma, 0-50. Resistance, 100,000 ohms full scale, with 2400 ohms half-scale reading. Capacitance, .05-15 mfd. Resistance ranges operate from AC power—no batteries required. In sturdy bakelite case. $3\frac{7}{8} \times 2\frac{3}{4} \times 1\frac{3}{4}$ ". Less test leads. For operation from 110-120 volts, 60 cycles AC. Shpg. wt., $1\frac{1}{4}$ lbs.

84 F 306. NET..... 8.82



556-K



221-K



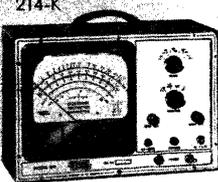
536-K



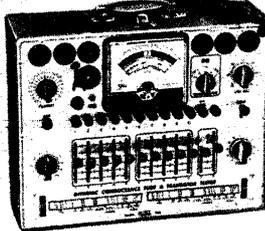
232-K



249-K



214-K



666-K



625-K

Tests all conventional receiving tubes including 600-ma series types.

MODEL 556-K STANDARD MULTIMETER KIT—WITH 4½" METER

Has 400-microamp movement. 38 full-scale ranges: DC, AC and output volts, 0-1.5-10-50-100-500-5000 (at 1000 ohms per volt); AC and DC current, 0-1-10 ma and 0-0.1-1 amp; resistance, 0-500-100,000 ohms and 0-1 megohm. Six db ranges. -20 to +69. 1% resistors. Accuracy: DC, ±3%; AC, ±5%. With case, wire battery. Less leads and solder. 6¾x5¼x3". Wt., 4 lbs.

83 F 173. NET.....16.90
MODEL 556. As above, but factory-wired.
84 F 347. NET.....23.50

MODEL 221-K VTVM KIT

An easy-to-build, sensitive VTVM for making measurements in high-resistance circuits. 20 ranges, with DC input resistance of 25 megohms. 4½" meter is protected against burnout. Includes zero center for alignment of FM and TV discriminators. Dual-triode balanced bridge, 1% multiplier resistors. Ranges: AC-DC volts, 0-5-10-100-500-1000; extends to 30,000 volts and 200 mc with HVP-2 and PRF-25 probes; resistance, 0-1000 ohms 0-1-10-100-1000 megohms; db -20 to +55. Tubes used: 6H6, 6SN7; and 6X5 rectifier. With leads, less solder. 6x9¾x5". For 105-125 volts, 50-60 cycle AC. Shpg. wt., 10 lbs.

83 F 152. NET.....25.95
MODEL 221. As above, but factory-wired.
84 FX 389. NET.....39.95

536-K STANDARD MULTIMETER KIT

Has 3" meter. 31 ranges: AC and DC volts; 0-1.5-10-50-100-500-5000 at 1000 ohms/volt; resistance, 0-500, 0-100,000 ohms, 0-1 meg; AC and DC current, 0-1-10 ma and 0-0.1-1 amps; 6 decibel ranges, -20 to +69 db. With bakelite case, wire, battery and instructions. Less leads and solder. Size: 6¼x3¾x2". Shpg. wt., 3 lbs.

83 F 171. NET.....12.90
MODEL 536. As above, but factory-wired.
84 F 345. NET.....14.90
MODEL 526-K KIT. As above, but with 1% resistors. Shpg. wt., 3 lbs.
83 F 166. NET.....13.90
MODEL 526. As above, but factory-wired.
84 F 390. NET.....16.90

MODEL 232-K VTVM KIT

A high-quality, moderately-priced service instrument. Balanced-bridge circuit provides accuracy and stability. Meter movement protected against burn-out. Easy-to-read 4½" scale, 1% multiplier resistors. Easily calibrated without removal from case. "Uni-Probe" provides convenient high impedance input. Half turn of probe tip selects DC or AC/ohms. Measures peak-to-peak or rms values of AC waves. Ranges: p-p volts, 0-4-14-42-140-420-1400-4200 volts; DC/rms volts, 0-1.5-5-15-50-150-500-1500 volts; resistance 0 to 1000 megohms in 7 ranges. Has zero-center scale for TV and FM discriminator alignment. Tubes: 12AU7, 6AL5, selenium rectifier. Size: 7x4x5". For 105-125 volts, 50-60 cycle AC. Shpg. wt., 7 lbs.

83 F 186. NET.....29.95
MODEL 232. As above, but factory-wired.
84 F 659. NET.....49.95

MODEL 249-K DELUXE VTVM KIT

As Model 232-K, but has 7½" meter. 8½x13x5". Less solder. Wt., 9 lbs.

83 F 187. NET.....39.95
MODEL 249. As above, but factory-wired.
84 F 660 NET.....59.95

MODEL 214-K DELUXE VTVM KIT

All the versatility and performance-proven features of Model 221, plus the extra convenience and legibility of a big 7½" meter. 13¼x9x6". Shpg. wt., 11 lbs.

83 FX 170. NET.....34.95
MODEL 214. As above, but factory-wired.
84 FX 344. NET.....54.95

666-K TUBE & TRANSISTOR TESTER KIT

This versatile tester indicates mutual conductance, plate conductance and peak emission capability of tubes—also measures transistor collector current and shows current amplification factor. 200 µa meter provides direct readings of leakage up to 20 megohms; 5 ranges of meter sensitivity. 12x15x4½". Less solder. For 105-125 v., 50-60 cycle AC. Shpg. wt., 18 lbs.

83 FX 198. NET.....69.95
MODEL 666. As above, but factory-wired.
87 FX 226. NET.....109.95

MODEL 625-K TUBE TESTER KIT

Short and open test for each element. Full-vision, 4½" meter with Replace-Weak-Good scale. An overload bulb indicates transformer overload and also serves as fuse. Rugged steel case. Illuminated, "speed-roll" chart. Lever-action switches for individual testing of every tube element. Knock-out for new tube socket. Less solder. For operation from 105-125 v., 60 cycle AC. 12½x9½x4¼". Shpg. wt., 12 lbs.

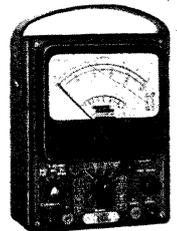
83 FX 161. NET.....34.95
MODEL 625. As above, but factory-wired.
84 FX 397. NET.....49.95
MODEL L-1. Lid (cover) for 625-K or 625.
83 F 880. NET.....3.98

MODEL CRA PICTURE TUBE ADAPTER

(Not illus.) Adapts 625 and 666 tube testers for checking all sizes of TV picture tubes. Measures cathode emission. Tests for filament continuity, shorts between elements. With standard 12-pin socket, octal connector and 4-ft. cable. Wt., 2 lbs.

84 F 348. NET.....4.50
MODEL CRA-110. Same as above but with "Eightar" 8-contact socket for checking 110 deg. deflection tubes. Shpg. wt., 1 lb.
83 F 879. NET.....3.95

Model 565-K Multimeter Kit



- Sensitivity, 20,000 Ohms/V.
- 31 Ranges
- Bakelite Case

Performance-proven, wide-range multimeter for radio-TV servicing, etc. Features easy-to-read, 4½" meter—50-microamp meter movement. High-impact bakelite case with carrying handle.

Has 31 ranges: DC, AC and output volts, 0-2.5-10-50-250-1000-5000 (DC at 20,000 ohms per volt, AC at 1000 ohms per volt); DC current, 0-100 microamps, 0-10-100-500 ma and 0-10 amps; resistance, 0-2000-200,000 ohms and 0-20 megohms. Five db ranges, -12 to +55. Size, 6¾x5¼x3". With case, batteries, all parts, wire, instructions. Less leads and solder. Wt., 4 lbs.

83 F 172. NET.....24.95
MODEL 565. As above, but factory-wired.
84 F 346. NET.....29.95
MODEL 555-K KIT. Same as 565-K above, but with 1% resistors. Wt., 4 lbs.
83 F 167. NET.....29.95
MODEL 555. As above, but factory-wired.
84 F 391. NET.....34.95

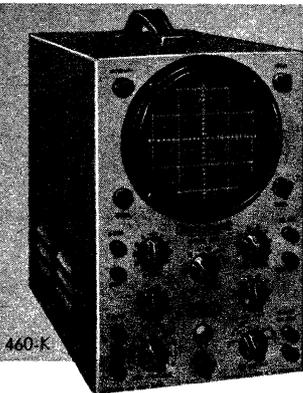
EICO VTVM PROBE KITS

Av. shpg. wt., 1 lb.
83 F 188. Model PTP-25-K. Peak-to-peak probe kit. NET.....4.95
84 F 661. Model PTP-25. As above, but factory wired. NET.....6.95
83 F 189. Model PRF-25-K. RF Probe Kit. NET.....3.75
84 F 662. Model PRF-25. As above, but factory wired. NET.....4.95

83 F 196. Model PRF-11-K. RF Probe Kit. NET.....3.75
83 F 197. Model PRF-11. As above, but factory wired. NET.....4.95
MODEL HVP-2 HIGH VOLTAGE PROBES. For adapting VTVM units to read up to 30,000 volts. Factory-wired and fully tested.
84 F 663. For Models 214, 221.
84 F 669. For Models 232, 249.
NET EACH.....4.95



TEST EQUIPMENT

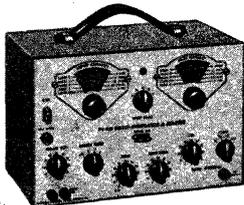


MODEL 460-K 5" OSCILLOSCOPE KIT

- For Black and White and Color TV
- 4-Step Attenuator in DC and AC
- Vertical Sensitivity: 25 mv/inch
- Built-in Voltage Calibrator

Wide-band scope for lab and color TV use. Response flat from DC to 4.5 mc—usable to 10 mc. Accurately reproduces 3.58-mc color TV sync burst. 4-step attenuator in both DC and AC position. Vertical sensitivity 25 mv/inch. Built-in voltage calibrator. Full-screen DC vertical positioning and 2X full-screen horizontal positioning. Automatic sync limiter and amplifier eliminates sync voltage adjustment. Sweep: 10 cps to 100 kc, plus low frequency sweep with external capacitor. Graph screen has variable illumination. Push-pull vertical amplifier, voltage regulated. Cathode follower inputs. With all tubes, CRT, all parts, instructions. 13x8 1/2x16". Less solder. For 105-125 v., 50-60 cycle AC. Shpg. wt., 26 lbs.

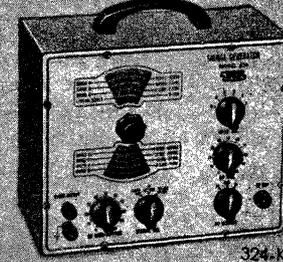
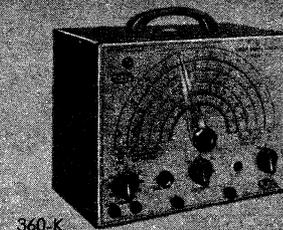
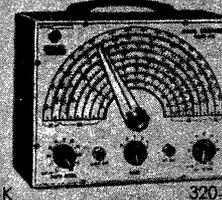
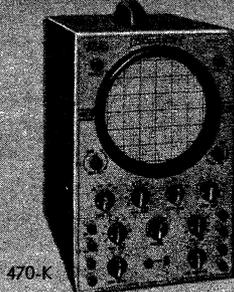
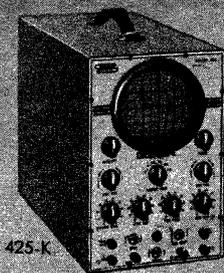
83 FU 193. NET. 79.95
MODEL 460. As above, but factory-wired.
84 FU 668. NET. 129.50



MODEL 368-K SWEEP & MARKER GENERATOR KIT

Sweep generator and marker for highly accurate alignment of FM, color and black-and-white TV. Covers 3 to 216 mc in 5 ranges. Variable frequency marker provides output from 2 to 75 mc on fundamentals; to 225 mc on harmonics. Sweep width is variable from 0-30 mc. Supplied with built-in 4.5-mc crystal marker for oscillator. Provides dual markers for RF or IF alignment. Provision for adding external marker. Continuously variable sweep and marker attenuators. Has retract blanking. Output impedance, 50 ohms. Edge-lit hairlines for high tuning accuracy. 6.1 vernier tuning mechanism. Tubes used: 12AT7, 12AV7, 12AX7, 6AU6, 12B4, 6X4, rectifier, selenium bias rectifier. 8 3/4x13 1/2x7 1/4". With all tubes, parts and instructions. Less solder. For 105-125 v., 50-60 cycles AC. Shpg. wt., 16 lbs.

83 FU 950. NET. 69.95
MODEL 368. As above, but factory-wired.
87 FU 225. NET. 119.95



MODEL 425-K 5" OSCILLOSCOPE KIT

For AM, FM and TV. Push-pull outputs in horizontal and vertical amplifiers. Sensitivity, .05-.1 rms volt/inch. Range, 5 cps to 500 kc. Input imp., 1 meg. Multi-vibrator sweep circuit, 15-75,000 cps. Provision for external sync., Z-modulation and direct input to CR tube plates. Calibrating terminal on panel. Graph screen. With tubes and parts. Less solder. 8 1/2x17x13". For 105-125 v., 50-60 cycle AC. 30 lbs.

83 FU 155. NET. 44.95
MODEL 425. As above, but factory-wired.
84 FU 392. NET. 79.95

MODEL 470-K 7" OSCILLOSCOPE KIT

Push-pull amplifiers and cathode follower inputs to both vertical and horizontal sections. Wide-range sweep frequency generator (15 cps to 100 kc). Intensity modulation, internal sync inputs, saw-tooth and line frequency outputs—all on front panel. Internal voltage calibrator. Frequency response: vertical amplifier, flat within ±2 db from 10 cps to 1 mc with sensitivity of .01 volt rms/inch; horizontal amplifier, ±2 db from 10 cps to 500 kc with sensitivity of .3 volt rms/inch. Input impedance: vertical, 3 megs and 35 mmf; horizontal, 1 meg and 40 mmf. Graph screen. 15x15x10". With all tubes and parts. Less solder. For 105-125 v., 50-60 cycle AC. Shpg. wt., 35 lbs.

83 FU 174. NET. 79.95
MODEL 470. As above, but factory-wired.
84 FU 343. NET. 129.50

OSCILLOSCOPE TV PROBES

For signal and waveform tracing, etc. Fully shielded. Av. shpg. wt., 5 oz.
MODEL PSD-K. Demodulator Probe Kit.
83 F 180. NET. 3.75
MODEL PSD. As above, but factory-wired.
84 F 653. NET. 5.75
MODEL PD-K. Direct Probe Kit.
83 F 181. NET. 2.75
MODEL PD. As above, but factory-wired.
84 F 654. NET. 3.95
MODEL PLC-K. Low Capacity Probe Kit.
83 F 182. NET. 3.75
MODEL PLC. As above, but factory-wired.
84 F 655. NET. 5.75

MODEL 322-K RF GENERATOR KIT

(Not illus.) Accurate 150 kc to 34 mc generator. Individual calibration for each of 5 bands. Switch selects pure RF, modulated RF or pure 400 cycle AF. Shielded RF and AF attenuators. With 6SN7; 6X5 rectifier Steel case, 10x8x4 3/4". With instructions. Less solder. For 105-125 v., 50-60 cycle AC. Shpg. wt., 10 lbs.

83 F 168. NET. 23.95
MODEL 322. As above, but factory-wired.
84 F 396. NET. 34.95

MODEL 360-K SWEEP GENERATOR KIT

Every advanced feature needed for quick, easy, and accurate alignment of TV or FM receivers. Use for video IF alignment and response curve adjustment, sound IF and sound detector adjustment. Covers 500 kc to 228 mc. Variable sweep, 0-30 mc. Crystal marker oscillator with variable amplitude. Provision for injection of external marker. Phase control. 8 1/2" vernier tuning dial. Center of each TV channel is marked on front panel. Uses 6C4, 2-6J5, 7193; 6X5GT rectifier. With tubes, parts, instructions. Less 5-mc crystal and solder. 10x8x6 3/4". For operation from 105-125 v., 50-60 cycle AC. Shpg. wt., 12 lbs.

83 F 159. NET. 34.95
MODEL 360. As above, but factory-wired.
84 FU 342. NET. 49.95

MODEL 315-K DELUXE RF SIGNAL GENERATOR KIT

For AM, FM, TV servicing. 1% accuracy from 75 kc to 150 mc. 9" illuminated dial. Vernier tuning. Provision for external modulation. Internal 400-cps sine wave generator with attenuator for RF modulation and external audio testing. Uses: 7F7, 6C4; VR150, and 6X5. 12x13x7". Less solder. For 105-125 v., 50-60 cycle AC. 20 lbs.

83 FU 162. NET. 39.95
MODEL 315. As above, but factory-wired.
84 FU 395. NET. 59.95

320-K RF SIGNAL GENERATOR KIT

Well-designed circuit uses a stable Hartley oscillator. Covers 150 kc to 34 mc on fundamentals—to 102 mc on harmonics. 400-cps modulation. Has 9" dial calibrated in 7 bands. Complete with tubes, portable case, parts, shielded cable, instructions, etc. Less solder. 10x8x4 3/4". For 105-125 v., 50-60 cycle AC. Shpg. wt., 10 lbs.

83 F 154. NET. 19.95
MODEL 320. As above, but factory-wired.
84 F 394. NET. 29.95

324-K RF SIGNAL GENERATOR KIT

Provides modulated or unmodulated RF signal. For signal tracing and IF-RF alignment of AM, FM, TV receivers. Has expanded frequency range of 6 fundamental bands: 150-400 kc, 400-1200 kc, 1.2-3.5 mc, 3.5-11 mc, 11-37 mc and 37-145 mc. One harmonic band covers 111-435 mc. Calibration accuracy is ±1.5%. Output impedance, 50 ohms. Internal modulation of 400 cps variable from 0 to 50%; can be used for audio testing. Input has gain control for use with external modulator. Colpitts RF oscillator is directly modulated by cathode follower. Fine and coarse RF attenuators. With tubes and all parts. Less solder. 8x10x4 3/4". For 105-125 v., 50-60 cycle AC. Shpg. wt., 10 lbs.

83 F 192. NET. 26.95
MODEL 324. As above, but factory-wired.
84 F 666. NET. 39.95

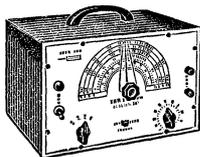
Eico Test Equipment Kits



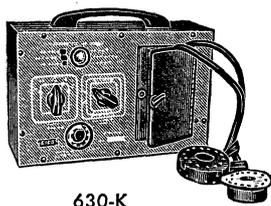
540-K



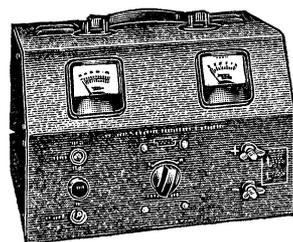
944-K



377-K



630-K



MODEL 1060-K DELUXE BATTERY ELIMINATOR KIT

- Battery Charger or Eliminator
- For All 6 & 12-Volt Auto Radios

A powerful unit for operating any auto radio, including transistor models. Includes Model 1055-K L-C filter to aid servicing of transistor sets. Can be used as a battery charger or eliminator. Features: 2 DC ranges with extra filtering and continuous adjustment by a variac; separate voltmeter and dual range ammeter; heavy duty selenium rectifiers; fused primary; automatic reset overload relay in secondary.

Specifications: low range, 0-8 v., 10 amps continuous, 20 amps intermittent, 0.3% ripple at 2 amps, 1.5% at 10 amps; high range, 0-16 v., 6 amps continuous, 12 amps intermittent, 1.5% ripple at 2 amps, 2% at 6 amps; voltmeter range, 0-20 v.; ammeter, 0-10, 0-20 amps. With steel case, parts, and instructions. Less solder. Size: $8\frac{3}{4} \times 10\frac{1}{2} \times 7\frac{3}{4}$ ". For 105-125 volts, 50-60 cycle AC. Shpg. wt., 19 lbs.

83 FX 875. \$3.90 Down. NET. 38.95

MODEL 1060. As above, but factory-wired. 83 FU 876. \$4.80 Down. NET. 47.95

MODEL 1050-K 6-12 VOLT BATTERY ELIMINATOR KIT

Power supply for 6 or 12 volt auto radios. Same battery eliminator and charger as Model 1060-K above, but less Model 1055-K L-C filter. Shpg. wt., 15 lbs.

83 FX 175. \$3.00 Down. NET. 29.95

MODEL 1050. As above, but factory-wired. 84 FU 341. \$3.90 Down. NET. 38.95

MODEL 540-K "REDI-TESTER" KIT

A very useful device for simplified repair work on home appliances and for checking automobile electrical systems. It is a combination AC/DC voltmeter, ammeter, ohm meter, wattmeter, and leakage tester. A rotary switch range selector provides easier, surer, and faster operation than comparable units.

Ranges: AC-DC volts, 0-7.5, 15, 150, 300. Current (AC or DC), 0-15 amps. Resistance, 0-1000 ohms. Leakage test of capacitors above .0005 mfd and resistors between 1000 and 2 megohms. $3\frac{1}{2}$ " meter. Has handsome, etched aluminum panel and black bakelite case. With leads. Less solder. Size, $6\frac{1}{2} \times 3\frac{3}{4} \times 3\frac{1}{2}$ ". Shpg. wt., 3 lbs.

83 F 199. NET. 12.95

MODEL 540. As above, but factory-wired.

84 F 667. NET. 15.95

MODEL 377-K AUDIO GENERATOR KIT

Provides sine and square waves. 1% resistors in Wien bridge-type oscillator circuit. Sine wave: 20-200,000 cps in 4 bands, ± 1.5 db. from 60-150,000 cps, less than 1% distortion. Square wave: 60-50,000 cps in 4 bands, 5% tilt at 50 cps, 5% rounding at 50,000 cps. Output (sine or square wave): 10 volts across rated load of 1000 ohms. Cathode follower output. Hum less than 0.4% of rated output. Calibration accuracy $\pm 3\%$ or 1 cps, whichever is greater. $6\frac{1}{2}$ " dial has 0-100 reference scale. $7\frac{1}{2} \times 11\frac{1}{2} \times 7\frac{3}{8}$ ". With tubes, wire and instructions. Less solder and leads. For 105-125 v., 50-60 cycle AC. Shpg. wt., 14 lbs.

83 FX 169. \$3.20 Down. NET. 31.95

MODEL 377. As above, but factory-wired.

84 FU 349. \$5.00 Down. NET. 49.95

MODEL 630-K CATHODE RAY TUBE CHECKER KIT

Tests all CRT's—in or out of the TV set. Uses balanced bridge circuit to measure peak beam current (which is proportional to screen brightness). Neon lamp acts as a sensitive bridge balance indicator. Balancing control dial is calibrated to indicate tube condition directly. Supplied with two test sockets, each with $2\frac{1}{2}$ ft. of cable, for duodecal (12-pin) and diheptal (14-pin) tubes. Adapter cables plug into an octal socket on the panel. Cables are stored in case. Less solder. $6\frac{1}{2} \times 9\frac{1}{2} \times 3\frac{3}{8}$ ". For 105-125 volts, 50-60 cycle AC. Shpg. wt., 6 lbs.

83 F 177. NET. 13.95

MODEL 630. As above, but factory-wired.

84 F 650. NET. 18.95

MODEL 944-K FLYBACK TESTER KIT

Quickly and easily spots defective flyback transformers and yokes in black and white and color TV sets. Also checks continuity of yokes, speakers, etc. Features grid-dip principle and separate calibration for air and iron-core flybacks to assure accurate testing. Has easy-to-read $4\frac{1}{2}$ " meter with 3 separate colored scales. Handsome, satin finish aluminum panel. Housed in sturdy gray wrinkle steel case with convenient carrying strap. Size, $8\frac{1}{2} \times 5\frac{5}{8}$ ". Less solder. For operation from 105-125 volts, 50-60 cycle AC. Shpg. wt., 5 lbs.

83 F 184. \$2.40 Down. NET. 23.95

MODEL 944. As above, but factory-wired.

84 F 657. \$3.50 Down. NET. 34.95



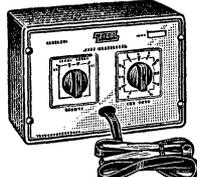
584-K



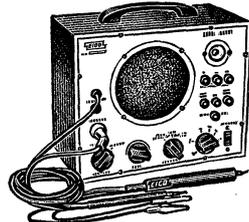
488-K



145A-K



352-K



MODEL 584-K BATTERY TESTER KIT

Quickly tests all portable radio "A" and "B" batteries in or out of the receiver. Test switch positions (volts): 1.5, 4.5, 6.0, 7.5, 9.0, 22.5, 45, 67.5, 75, 90, plus a spare position. $3\frac{1}{2}$ " meter calibrated: Good, Usable and Bad. Black bakelite case and aluminum panel. $6\frac{1}{4} \times 3\frac{3}{4} \times 2\frac{1}{2}$ ". Less solder. With test leads. Shpg. wt., 2 lbs.

83 F 195. NET. 9.95

MODEL 584. As above, but factory-wired.

84 F 671. NET. 12.95

MODEL 488-K ELECTRONIC SWITCH KIT

Allows simultaneous observation of two patterns on the screen of a scope. Switching rates: 10-100 cps; 50-400 cps; 250-2000 cps; all variable. Freq. resp. 0-30,000 cps 2 db; usable to 300,000 cps. Size, $6 \times 8 \times 6$ ". Less solder and leads. For operation from 105-125 v., 50-60 cycle. Shpg. wt., 7 lbs.

83 F 185. \$2.40 Down. NET. 23.95

MODEL 488. As above, but factory-wired.

84 F 658. \$4.00 Down. NET. 39.95

MODEL 145A-K SIGNAL TRACER KIT

For trouble-shooting any radio or TV set. Quickly checks IF, RF, video and audio circuits. Features: built-in speaker, audio amplifier with volume control; noise locator circuit. May be used with scope or VTVM for visual tracing. With probes. Less solder. $7\frac{1}{8} \times 5\frac{5}{8} \times 5\frac{1}{8}$ ". For 105-125 v., 50-60 cycle AC. Shpg. wt., 7 lbs.

83 F 158. \$2.00 Down. NET. 19.95

MODEL 145A. As above, but factory-wired.

84 F 385. \$2.90 Down. NET. 28.95

MODEL 352-K BAR GENERATOR KIT

For adjusting vertical and horizontal linearity. Produces 16-23 vertical and 13-22 horizontal bars (number of bars is adjustable). Video carrier oscillator is tunable over channels 2-6, 3-way antenna clip. Less solder. $7\frac{1}{2} \times 3\frac{3}{4} \times 4\frac{1}{2}$ ". For 105-125 v., 50-60 cycle AC. Shpg. wt., 4 lbs.

83 F 178. NET. 14.95

MODEL 352. As above, but factory-wired.

84 F 651. \$2.00 Down. NET. 19.95

MODEL 147-K DELUXE SIGNAL TRACER KIT

- For Visual or Aural Monitoring
- Has "Magic Eye" and 5" Speaker

Versatile transformer-operated instrument. High and low-gain RF channels with internal wide-frequency range demodulator permits direct observation of signal. Has output for VTVM or oscilloscope. May be connected as substitute speaker, output transformer, or amplifier. Heavy filtering and hum-balance control. Both visual and aural monitoring of all RF and AF channels—magic eye and 5" PM speaker. Calibrated wattmeter circuit indicates wattage consumption in unit under test. Has noise localizer circuit. Aluminum panel, gray wrinkle steel case. Size, $9 \times 10 \times 5\frac{1}{2}$ ". With probes. Less solder. For 105-125 volts, 50-60 cycle AC. Shpg. wt., 10 lbs.

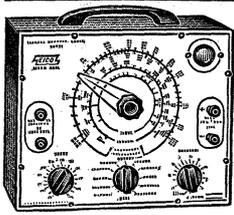
83 F 190. \$2.50 Down. NET. 24.95

MODEL 147. As above, but factory-wired.

84 F 664. \$4.00 Down. NET. 39.95

Eico and Pyramid Test Equipment

POPULAR EICO TEST EQUIPMENT



950B

MODEL 950B-K RESISTANCE-CAPACITANCE BRIDGE KIT

- R-C-L Comparator Range
- 0-500 VDC For Capacitors
- Direct-reading Scales

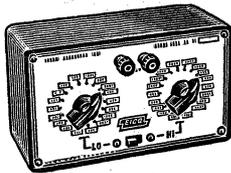
A precision instrument for the laboratory or service shop. Permits quick, accurate testing of component values. Combines a resistance-capacitance bridge and R-C-L comparator in one unit.

Measures and tests resistors from 0.5 ohm to 500 megohms in 4 ranges, and capacitors from 10 mmf to 5000 mfd in 4 ranges on direct-reading scale. A ratio scale is provided for comparison of resistance, capacitance, or inductance values to any external standard. Reads ratios from .05 to 20 (400 to 1). "Magic eye" tube serves as null indicator. Continuously variable 0-500 volt DC source permits checking capacitors at rated voltage. Tests capacitors for shorts, leakage and, in the case of electrolytics, power factor.

With case, panel, parts, tubes, wire, and instructions. Less solder and leads. Size, 10x8x4 3/4". For 105-125 volts, 50-60 cycle AC. Shpg. wt., 10 lbs.

83 F 164. NET.....19.95

MODEL 950B. As above, but factory-wired.
84 F 387. NET.....29.95



1100

MODEL 1100-K RESISTANCE SUBSTITUTION BOX KIT

- Values from 15 Ohms to 10 Megs
- All I-Watt Resistors

Enables rapid substitution of resistances for service or experimental applications. Aids in determining the value of unmarked or damaged resistors. Range from 15 ohms to 10 megs in decade multiples of 15, 22, 33, 47, 68 and 100 ohms. 36 RETMA (EIA) 1-watt 10% resistors. 5-way binding posts. Size (HWD): 3 3/4x6 1/2x3 1/2". Less solder, leads. Shpg. wt., 2 lbs.

83 F 179. NET.....5.95

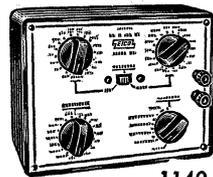
MODEL 1100. As above, but factory-wired.
84 F 652. NET.....9.95

MODEL 495-K SCOPE VOLTAGE CALIBRATOR KIT

Injects a calibrated, semi-square wave on the scope screen for comparison with any waveform. Ranges: 0 to 1, 1, 10 and 100 volts peak-to-peak, continuously calibrated. Accuracy: ±5% of full scale on each range. Switch permits transfer of signal under observation directly to scope. 5x7 1/2x4". Less solder, leads. For 105-125 v., 50-60 cycle. Shpg. wt., 4 lbs.

83 F 176. NET.....12.95

MODEL 495. As above, but factory-wired.
84 F 384. NET.....17.95



1140

MODEL 1140-K SERIES/PARALLEL R-C BOX KIT

- Top Versatility at Lowest Cost
- Ideal for Lab or Service Shop

A highly versatile combination of Models 1100-K and 1120-K substitution units. Permits selection of any resistance alone, any capacitance alone, or any combination of resistance or capacitance in either series or parallel. Allows development of differentiating, integrating and other wave-shaping R-C networks. (See descriptions of the 1100-K and 1120-K for specifications.) Less solder and leads. Shpg. wt., 3 lbs.

87 F 350. NET.....13.95

MODEL 1140. As above, but factory-wired.
87 F 351. NET.....19.95

MODEL 1120-K CAPACITOR SUBSTITUTION BOX KIT

For rapidly substituting a wide range of RETMA (EIA) capacitances. Values from 0.0001 to 0.22 mfd in 18 steps. ±10% accuracy. Employs both ceramic and molded capacitors—most rated 600 v., others 400 v. Has 5-way binding posts. 3 3/4x6 1/2x3 1/2". Less solder and leads. Shpg. wt., 2 lbs.

83 F 191. NET.....5.95

MODEL 1120. As above, but factory-wired.
84 F 665. NET.....9.95

MODEL 1171-K RESISTANCE DECADE BOX KIT

Supplies resistance values from 0 to 99,999 ohms with 1/2% accuracy in 1-ohm steps with 5 decades. Uses 1/2% 1-watt resistors. Has 5 separate 10-position switches. Ideal low-cost unit for the experimenter and builder. Comparator position and binding posts for instant substitution of actual equivalent component. Steel case, 3 1/2x12x3". Less solder, leads. Shpg. wt., 3 lbs.

83 F 165. NET.....19.95

MODEL 1171. As above, but factory-wired.
84 F 388. NET.....24.95

MODEL 1180-K DECADE CAPACITOR BOX KIT

Useful in every laboratory for determination of proper capacitance values by substitution. Range: 100 mmf to .111 mfd in steps of 100 mmf; voltage rating, 350 volts DC continuous. Mica capacitors are ±1%. Zero capacitance approx. 7 mmf. Positive detent, ceramic wafer switches. Low-loss lucite terminal board. 9x3 1/2x3 1/2". Less solder and leads. Shpg. wt., 3 lbs.

83 F 183. NET.....14.95

MODEL 1180. As above, but factory-wired.
84 F 656. NET.....19.95

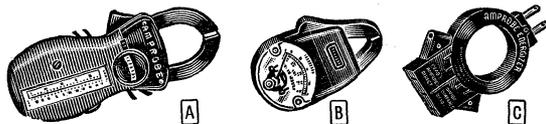
MODEL 710-K GRID-DIP METER KIT

Extremely compact, accurate grid-dip meter kit—may also be operated as oscillating detector or wavemeter. Covers 300 kc to 250 mc in 7 overlapping ranges. Features precision 500 microamp meter and 7:1 planetary drive. Coils pre-wound, with winding inside form—low-band coils slung-tuned. Less solder. 2 1/4x2 9/16x 6 7/8". For 110-120 v., 50-60 cycle AC. Wt., 3 lbs.

87 F 352. NET.....29.95

MODEL 710. As above, but factory-wired.
87 F 353. NET.....49.95

PYRAMID AMPROBES—"SNAP-AROUND" METERS



Amprobes measure current without breaking the circuit or the insulation of conductors. Press the trigger to open probe jaws, then close around conductor. Meter instantly gives correct reading. Features one-hand operation with fully insulated jaws for safety and convenience. Full-size models employ magnifying window for easy reading from any angle in poor light; indicator needle can be locked and read away from the conductor when using meter in difficult locations. Voltage is measured with test leads which automatically insulate plugs when leads are removed. Have dustproof D'Arsonval movements. Accuracy is ±3% of full scale. Units are designed for 60-cycle operation, and will give dependable results from 50 to 70 cps. Model RS-3 will measure resistance.

A MODEL RS-1. Switch permits range selection by a flick of the thumb—only one scale is visible at a time. Reads 0.5-15-40-100 amps and 0-150-600 volts, AC. Impact-proof case has non-slip ribbing. Circular conductor capacity: 1 1/8" dia. Scale length: 2.25". Overall length: 7 1/2". With test leads and leather case. 2 lbs.
87 F 268. NET.....39.85

A MODEL RS-3. Similar to Model RS-1 at left. Reads 0.5-15-40-100-300 amps and 0-150-300-600 volts, AC. Resistance range is 25 ohms mid-scale. Tiny battery attachment plugs in for resistance measurements. Only one scale plus ohms scale visible at a time. Supplied with battery, test leads, leather case. Wt., 2 lbs.
87 F 376. NET.....52.50

B AMPROBE JUNIORS. Small versions of Amprobe "snap around" meters. Circular conductor capacity: 1/2". Scale length: 1.8". Overall length: 4 3/4". With test leads, less case (below). 1 lb.

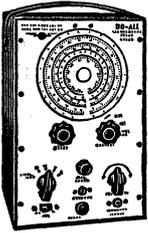
No.	Model	Amps	Volts	No.	Model	Amps	Volts
84 F 369	10	0-10	0-125-250	84 F 897	525	0-25	0-150-600
84 F 373	25	0-25	0-125-250	84 F 898	550	0-50	0-150-600
84 F 374	50	0-50	0-125-250	84 F 899	500	0-100	0-150-600
84 F 379	100	0-100	0-125-250				

NET EACH.....19.85

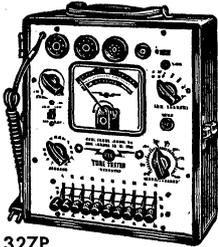
MODEL P-1 LEATHER CARRYING CASE. For Amprobe Juniors. 12 oz.
84 F 488. NET.....2.85

C MODEL A-40 ENERGIZER. Serves as plug to divide 2-conductor cords at outlet (convenient when using Amprobes for current measurement). Increases ammeter sensitivity to 10X. Test jacks permit measuring line voltage under load. With carrying case. Shpg. wt., 8 oz.
84 F 489. NET.....3.75

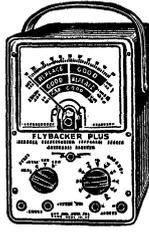
Radio City Products Test Equipment



750



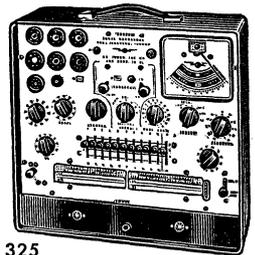
327P



124



555



325

MODEL 750 GENERATOR

Combination signal, marker and pattern generator. Covers all UHF-VHF channels for FM and TV receiver servicing. Checks and aligns front ends, sound IF's and picture traps, linearity, sync circuits, sweep circuits, focus and deflection. Accuracy of 0.5%. All VHF frequencies are covered on fundamental. Ranges: 9.11, 21.47, 54.220, 465-690 and 650-900 mc. RF's and IF's are clearly calibrated on large etched dial. Provides horizontal or vertical bars or cross-hatch pattern on all channels. Internal modulation: 360 cps and 141.75 kc. Provides unmodulated carrier signal. 4 1/2" dial. With leads and instructions. 10 1/2 x 6 1/2 x 5 1/2". For operation from 105-125 volts, 60 cycle AC. Shpg. wt., 10 lbs.

84 FU 338. NET.....77.91

MODEL 327P TUBE TESTER

A modern, accurate tube tester. Checks tubes currently used in radio and TV receivers. Will check transmitting, hearing aid, ballast, gaseous rectifier and tuning indicator types. Checks tubes for emission and shorts. Slide-lever switches permit fast, easy testing. Will also check black-and-white picture tubes when used with the PTA-1 CRT adapter listed below. Dim or weak black and white tubes can be reactivated with this tester. "Finger-flip" tube index—permits rapid insertion of new tube data. 3-color meter provides POOR-7-GOOD tests. CRT scale indicates DIM-BRIGHT readings.

In a rugged oak combination counter-portable case. Size 9 1/2 x 11 x 5 1/2". For operation from 105-125 volts, 50-60 cycle AC. Shpg. wt., 11 lbs.

84 FU 339. NET.....50.91

MODEL PTA-1 CRT ADAPTER. Picture tube adapter for black-and-white tubes. Permits checking and reactivating all magnetic-deflection types whether in or out of set. Shpg. wt., 2 lbs.

84 F 627. NET.....3.87

MODEL 655 DO-ALL VTVM

Highly dependable, AC-operated VTVM. 4 1/2" meter reads peak-to-peak and rms waveshapes. 7 ranges on all functions. DC volts, 0-1.5-5-15-50-150-500-1500. Input resistance, 11 megohms. Accuracy on DC ranges $\pm 3\%$. AC voltage ranges: peak-to-peak, 0-4.2-14-42-140-420-1400-4200; rms, 0-1.5-5-15-50-150-500-1500. Accuracy on AC ranges $\pm 5\%$. Response: 30 cps to 3 mc for 1.5, 5, 15, 50, 150 and 500 volt ranges (voltage source having low impedance output). Resistance ranges: 0-1000-10,000 ohms, 0-0.1-1-10-100-1000 megohms. Center scale: 10, 100, 1000, 10,000 ohms and 0.1, 1, 10 megohms. Balanced bridge-type circuit. With test leads. Size, 10x6x5". For operation from 105-125 volts, 50-60 cycle AC. Shpg. wt., 8 lbs.

84 F 324. NET.....58.31

MODEL HVMP-2 HIGH VOLTAGE MULTIPLIER PROBE. For use with above. Extends DC volts range to 30 KV. Shpg. wt., 1 lb.

84 F 622. NET.....8.77



MODEL 124 FLYBACKER

An extremely valuable, versatile TV test unit. Permits testing flyback transformers and yokes without disconnecting them from the circuit. Shows leakage and shorts in all capacitors; tests for continuity in all flyback transformers, deflection yokes, width coils, solenoids, relays, etc. Instantly shows up a single shorted turn in a flyback transformer or yoke. Tests high-impedance sections of all transformers. Over 200 volts applied to components under test. 5 easy-to-read scales. 4 illuminated GOOD-BAD scales—calibrated direct reading numbered scale for transformers. In steel case. 10x6x5". For operation from 105-125 volts, 50-60 cycle AC. Shpg. wt., 8 lbs.

84 F 625. NET.....41.94

MODEL 555 OSCILLOSCOPE

Wide-band 5-inch oscilloscope for black-and-white and color TV servicing. Push-pull, 3-stage vertical amplifier has 25 mv/inch sensitivity; frequency response up to 4 mc. Horizontal amplifier rated at 0.3 volts/inch sensitivity; frequency response up to 700 kc. Features: Multivibrator-type sweep generator; compensated stop attenuator, Z-axis modulation, internal and external sweep synchronization; built-in 60-cycle phasing with adjustable front panel control; retrace blanking; built-in spot size control and versatile 5-way binding posts. Metal cabinet. Size: 9 1/2 x 12 1/2 x 18". For operation from 105-125 volts, 50-60 cycle AC. Shpg. wt., 23 lbs.

87 FU 202. NET.....87.71

MODEL 480 1000 OHM PER VOLT VOM

• Low-Cost, Highly Versatile Multitester

Moderately priced, 1000 ohm per volt, multitester. Features 3" square meter with 800 microampere D'Arsonval movement. Ruggedly constructed for long, dependable service. Completely housed in an all molded bakelite case and panel; panel has easy-to-read, recessed lettering. Combination selector switch and multi-tap circuitry minimize operational errors. Ideal for use in the shop, laboratory, and serviceman's kit. DC voltage ranges: 0-5-50-250-500-1000 volts. AC ranges of 0-10-100-500-1000 volts. Output voltage readings over same ranges as AC. Milliammeter reads 0-1-10-100 ma and 0-1 ampere. Ohmmeter has 4 resistance ranges: 0-10,000-100,000 ohms. 0-1 megohm and 0-10 megohms external. Provides decibel readings from -10 to +55 db. Size, 7x4 3/8 x 2 1/2". With batteries. Shpg. wt., 2 1/4 lbs.

84 F 621. NET.....15.63



PRECISION 202 SIGNAL TRACER

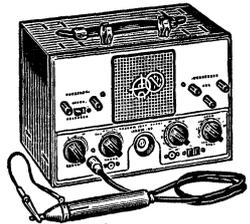
- Quickly Checks All Stages In Radios and TV Sets
- Provides Both Visual and Aural Tracing
- Features "Magic Eye" and Built-In Speaker

Moderately-priced, all-purpose signal tracer for rapid servicing of radio and television receivers, audio, hi-fi, public address, and other types of electronic equipment. Quickly and easily checks all stages from antenna to speaker or picture tube. Permits location of intermittent components, open circuits and similar causes of poor performance. Both visual and aural signal tracing can be done with sensitive "magic-eye" and built-in 5" speaker. 3-stage preamplifier with feedback. Preamplifier output provides wide band response and voltage gain of 400 for scope or VTVM. Preamplifier is flat from 2 cps to 300 kc to indicator eye or scope output. 3-position attenuator gives accurate stage to stage gain measurements. Gain control adjusts indicator eye and speaker sensitivity only. 4-position selector switch for selecting: RF probe (listed below); audio probe; noise test with applied break-down voltage; wattmeter circuit for checking power consumption of set under test. Size, 7 1/2 x 10 1/2 x 6 1/2". With audio probe. For 110-120 v., 60 cycle AC. Shpg. wt., 11 lbs.

84 FX 197. NET.....36.75

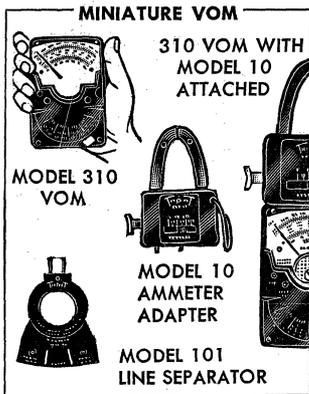
MODEL B RF DEMODULATOR-AMPLIFIER PROBE. For use with Model 202. For extremely high gain and frequency response to 300 mc. Shpg. wt., 1 lb.

87 F 258. NET.....7.35



Triplett Test Equipment

HIGH-QUALITY VOM'S, VTVM'S AND ACCESSORIES



MINIATURE VOM
310 VOM WITH MODEL 10 ATTACHED
MODEL 310 VOM
MODEL 10 AMMETER ADAPTER
MODEL 101 LINE SEPARATOR

MODEL 310 MINIATURE VOM

- Ultra Compact—Easy To Use
- Provides Complete AC-DC Readings

Versatile, miniature VOM with 18 ranges. Extremely compact—hardly bigger than a package of cigarettes—it's ideal for on-the-spot testing. Self-shielded for checking in strong magnetic fields. Ranges: DC volts, 0-3-12-60-300-1200 at 20,000 ohms/volt; AC volts, 0-3-12-60-300-1200 at 5000 ohms/volt; DC μ a, 0-600; DC ma, 0-6-60-600; ohms 0-20,000-200,000; megohms, 0-2-20. Accuracy, 3% DC. Clear, unbreakable plastic meter window. $4\frac{1}{4} \times 2\frac{3}{4} \times 1\frac{3}{8}$ ". Supplied complete with leads, batteries and instruction manual. Shpg. wt., 1 lb.
84 F 674. NET..... 33.81

MODEL 10 ADAPTER

Miniature AC ammeter clamp-on adapter for use with above or any VOM having a 3 v. AC scale at 5000 ohms per volt. Clamp-on jaws fit around any single conductor to permit direct reading of 0-6-12-30-60-120-300 amps AC, without breaking circuit or piercing insulation. $4\frac{1}{4} \times 3\frac{1}{4} \times 1\frac{1}{4}$ ". $2\frac{3}{4}$ lbs.
87 F 152. NET..... 14.21

66 F 590. Model 379 Leather Case. Holds Models 310 and 10. 8 oz. NET..... 5.39

MODEL 101 LINE SEPARATOR

Divides 2-conductor lines. Provides 10X and 20X sensitivity as well as direct readings with Model 10. Ranges (maximum), 0-0.3-0.6-1.2-1.5-3-6-12-30 amps. Shpg. wt., 6 oz.
87 F 153. NET..... 5.39



MODEL 630 VOM

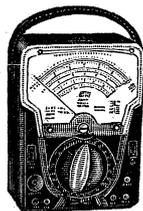
"Unit construction" provides direct connections without cabling, thus reducing chance of shorts. All resistors, shunts, etc. are housed in molded base which is integral with switch.

- Easy-To-Read $5\frac{1}{2}$ " Meter
- Uses 1% Precision Resistors

Popular, accurate VOM for industry, etc. Has $5\frac{1}{2}$ " meter with $4\frac{3}{8}$ " scale. Uses 1% resistors, each sealed in its own molded compartment. "Unit construction"—all resistors, shunts, rectifier, and batteries are housed in molded base integral with the switch. Ranges: DC and AC volts, 0-3-12-60-300-1200-6000, DC at 20,000 ohms per volt, AC at 5000 ohms per volt; DC current, 0-60 microamps, 0-1.2-12-120 ma. and 0-12 amps; resistance, 0-1000-10,000 ohms and 0-1-100 megs; db. -30 to +70 in 7 ranges; output v., 0-3-12-60-300-1200-6000. Flush-mounted knob controls 20-position switch which selects both circuit and range. Plastic case. $7\frac{1}{2} \times 5\frac{1}{2} \times 3\frac{3}{4}$ ". With batteries and 50" leads and instructions. Wt., 6 lbs.
84 F 568. NET..... 43.61



630-A



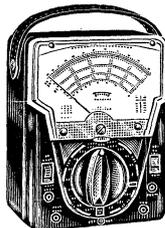
631



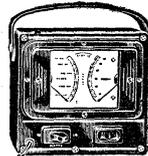
630-NA



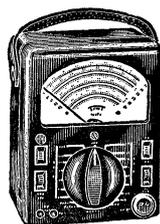
625-NA



630-PL



660



650

MODEL 630-A VOM

Lab type VOM. Features series ohmmeter circuits; $\frac{1}{2}\%$ resistors; mirrored scales. Accuracy: $1\frac{1}{2}\%$ on ohms and 0-1200 DC volts; 4% on 6000 DC volts and all AC ranges. Ranges: DC and AC volts 0-3-12-60-300-1200-6000 (DC at 20,000 ohms per volt, AC at 5000 ohms per volt); DC current, 0-60 microamps, 0-1.2-12-120 milliamps, and 0-12 amps; resistance, 0-1000-10,000 ohms, and 0-1-100 megohms; db -20 to +70 in 7 ranges; output volts, 0-3-12-60-300-1200. Has $5\frac{1}{2}$ " meter with $4\frac{3}{8}$ " scale. $7\frac{1}{2} \times 5\frac{1}{2} \times 3\frac{3}{4}$ ". With batteries and 48" leads. Shpg. wt., 6 lbs.
84 F 574. NET..... 53.41

MODEL 631 VTVM-VOM

Battery-operated, 34-range VTVM and VOM. Easy-to-read VTVM ranges: 0-1.2-6-30-120 DC volts; 11 megohms input impedance, VOM ranges: DC volts, 0-3-12-60-300-1200 at 20,000 ohms/volt; AC volts, and audio output volts, 0-3-12-60-300-1200 at 5000 ohms/volt; DC microamperes, 0-60; DC ma. 0-1.2-12-120-1200 at 250 mv; DC amps, 0-12 at 250 mv; db, -20 to +56; ohms, 0-1500-15,000; megohms, 0-1.5-150. $3\frac{3}{8} \times 5\frac{1}{2} \times 7\frac{1}{2}$ ". With batteries and 48" leads with alligator clips. Shpg. wt., 5 lbs.
84 F 546. NET..... 63.21

MODEL 630-NA VOM

Offers unusually high accuracy. 70 ranges: $\pm 1\frac{1}{2}\%$ on DC to 1200 v.; $\pm 3\%$ on AC to 1200 v. Features: DC volts: 8 ranges to 6000 (10,000 ohms/v.); 8 ranges to 3000 (20,000 ohms/v.). AC volts: 6 ranges to 6000 (5000 ohms/v.); 6 ranges to 3000 (10,000 ohms/v.). DB: -20 to +70 in 22 ranges. DC microamps: 1 range to 120 (240 mv); 2 ranges to 600 (120 mv). DC milliamps: 4 ranges to 1200 (240 mv); 3 ranges to 600 (120 mv). DC amps: 1 range to 12 (240 mv); 1 range to 6 (120 mv). Resistance: 3 ranges to 100,000 ohms; 3 ranges to 100 megohms. Output: All 12 AC volt ranges. $7\frac{1}{2} \times 5\frac{1}{2} \times 3\frac{1}{2}$ ". Mirror scale. With leads, batteries. Shpg. wt., 6 lbs.
84 F 512. NET..... 73.01

MODEL 625-NA VOM

Wide-range VOM. Large mirror scale. DC volts, 0-1.25-5-25-125-500-2500 at 20,000 ohms/volt and 0-2.5-10-50-250-1000-5000 at 10,000 ohms/volt; DC current, 0-50 μ a, 0-1-10-100-1000 ma. and 0-10 amps; resistance, 0-2000-200,000 ohms, 0-40 megs. AC volts, 0-2.5-10-50-250-1000-5000 at 10,000 ohms/volt. $5\frac{1}{2} \times 2\frac{1}{2} \times 6$ ". With batteries and leads. Wt., 6 lbs.
84 F 575. NET..... 53.41

**MODEL 629 CASE. Leather case with handle. Shpg. wt., 1 lb.
 84 F 561. NET..... 7.06**

NEW MODEL 630-PL VOM

Portable VOM. $5\frac{1}{2}$ " meter with $4\frac{1}{2}$ " scale. AC and DC v., 6 ranges each, to 5000 v. (DC at 20,000 ohms/v., AC at 5000 ohms/v.); DC current, 0-100 μ a, 0-10-100-1000 ma, and 0-10 amps; resistance, 0-1000-10,000 ohms and 0-1-100 megs; db, -20 to +75 in 7 ranges; output v., 0-3-10-50-250-1000 at 5000 ohms/v. Accuracy: $\pm 3\%$ on DC (2.5 v. to 1000 v.); $\pm 4\%$ on AC (3 v. to 1000 v.); $\pm 5\%$ on AC-DC (at 5000 v.). $7\frac{1}{2} \times 5\frac{1}{2} \times 3\frac{1}{2}$ ". With batteries, 50" lead, test probes. Shpg. wt., 6 lbs.
87 F 150. NET..... 43.61

**MODEL 630-APL. As above, but has 4.66" mirrored scale; $\pm 1\frac{1}{2}\%$ accuracy on DC (2.5 v. to 1000 v.); $\pm 3\%$ on AC (3 v. to 1000 v.). Shpg. wt., 6 lbs.
 87 F 151. NET..... 53.41**

MODEL 660 LOAD-CHEK

Wattmeter-voltmeter. Detects overloads and underloads. Load-Chek shows if power drawn from line exceeds or is less than the proper value. Power cord of unit under test plugs into receptacle on Load-Chek. Two 3" meters provide simultaneous wattage and voltage readings. Two watt-meter ranges. Toggle switch changes watt scale. Ranges: 0-500-1000 AC-DC watts; 0-150 AC-DC volts. Black plastic case. Size, $6 \times 5\frac{1}{2} \times 2\frac{1}{2}$ ". Shpg. wt., 4 lbs.
84 F 537. NET..... 33.81

MODEL 650 VTVM

Highly accurate VTVM. Ranges: DC volts, 0-1-5-10-50-100-500-1000; AC volts, 0-1-5-10-50-100-500; resistance, 0-1000 megohms in six ranges. $7\frac{1}{2} \times 5\frac{1}{2} \times 3\frac{3}{4}$ ". With 2 alligator clips, AC-RF probe, ohms-DC probe and battery. For 110-120 volts, 60 cycle AC. Shpg. wt., 8 lbs.
84 F 558. NET..... 87.71

**H. V. PROBE. 0-50,000 v. DC. Wt., 8 oz.
 84 F 564. NET..... 14.21**

**MODEL 659 LEATHER CARRYING CASE. Shpg. wt., 1 1/2 lbs.
 84 F 559. NET..... 10.29**

VOM ACCESSORIES

**HIGH-VOLTAGE PROBE MODEL T-79-70. For Series 630 and 631 meters. Extends DC range to 30,000 volts. Shpg. wt., 8 oz.
 84 F 544. NET..... 14.21**

**MODEL 639-N CASE. Leather carrying case for Series 630 and 631 meters. Meter can be read while in case. Shpg. wt., 1 1/2 lbs.
 84 F 569. NET..... 9.31**

**MODEL 639-P CASE. As above, but with sponge rubber padding. Shpg. wt., 1 3/4 lbs.
 84 F 562. NET..... 4.60**

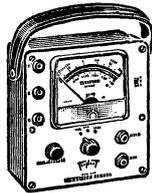
**TESTER STAND. Holds Series 630 and 631 meters at 45° angle. Shpg. wt., 1 lb.
 84 F 573. NET..... 49c**

Triplett, Millen & Pyramid Test Equipment

TRIPLETT TEST EQUIPMENT



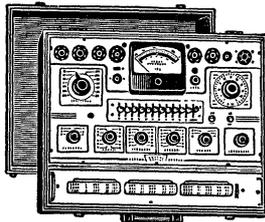
3441-A



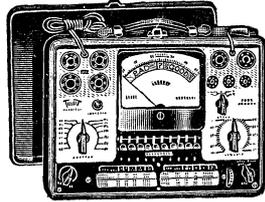
690



666-R



3423



3413-B

MODEL 3441-A TV-FM OSCILLOSCOPE

Wide-range 5" TV-FM oscilloscope. Suitable for color TV. Push-pull vertical and horizontal output amplifiers. 4.5 megacycle bandwidth, usable to 9 mc. Vertical sensitivity: 10 rms mv/inch maximum. Horizontal response, 20 cps to 150 kc. Peak-to-peak, 2 1/2" voltmeter reads 0-1000 volts in 8 ranges. Phased 60-cycle horizontal sweep and return trace eliminator for use with sweep generators. Phone jack on panel for audio check of waveform under observation; for audio circuit tracing. Variable sawtooth output from 10 to 60,000 cycles. Output variable, 0-70 volts peak-to-peak. Polarity-reversing switch. With coaxial cable. Metal case finished in black; aluminum panel. Size: 15 1/2"x11 1/2"x6 1/2". For 110-120 volts, 50-60 cycle AC. Shpg. wt., 42 lbs. **84 FU 530. NET.....244.51**

9989 Crystal Probe. For use with above. Shpg. wt., 8 oz. **84 F 545. NET.....10.29**

MODEL 690 TRANSISTOR TESTER

New, compact and rugged, battery-operated transistor tester. Provides leakage and gain tests for all low and medium-power PNP and NPN-type transistors. Single switch selects transistor settings "off" position; prevents drain on batteries in case leads are accidentally shorted. Separate Calibrate and Gain buttons. Precision meter has two easy-to-read, tri-color scales. Leakage range, 0-500 microamps, base to collector (emitter open). Current gain, 0-1.00. Transistor socket and set of external leads are provided for use with any basing arrangement. Includes 50' leads and batteries. Molded plastic case, 6x5 1/2"x2 1/2". Removable black leather carrying handle. Shpg. wt., 3 lbs. **84 F 549. NET.....28.91**

Model 629 Carrying Case. Handsome, black cowhide leather carrying case for the Model 690. Flap has swivel fastener. Shpg. wt., 1 lb. **84 F 561. NET.....7.06**

MODEL 666-R VOM

Compact, pocket-sized volt-ohm-milliammeter. Easy to carry and easy to use, it's ideal for radio-TV servicing, etc. Single, recessed range function switch selects all ranges—minimizes chance of incorrect settings and burnouts. Handy, recessed ohms-adjust thumbwheel. 3" meter. Sensitivity, 1000 ohms-per-volt. Accuracy, ± 3%. Ranges: DC and AC volts, 0-10-50-250-1000-5000; DC ma, 0-10-100; DC amps, 0-1-ohms, 0-3000-300,000; megohms, 0-3. Output volts: 0-10-50-250-1000; check with capacitor in series with AC ranges. Employs replaceable, pre-calibrated AC rectifier. Banana jacks at top of panel. Molded black plastic case, 5 1/2"x3 1/2"x2 1/2". With batteries and 48" test leads, alligator clips, etc. Shpg. wt., 4 lbs. **84 F 557. NET.....28.91**

Model 669 Case. Black cowhide case for Model 666-R or 666-HH VOM'S. Shpg. wt., 1 lb. **84 F 560. NET.....5.98**

MODEL 3423 TUBE TESTER

Accurate, versatile tube tester. Tests by proportional mutual conductance method—simulates actual tube operating conditions. Tests receiving tubes, subminiatures, ballasts, low-power transmitting types, etc. Includes tests for series-string tubes. Reads mutual conductance directly in micromhos; also BAD—?—GOOD scale. Tests selenium rectifiers, crystal diodes and transistors. Direct leakage measurement on meter from 0 to 10 meg between any one element and all other elements. Has 0-100 scale for thyratron tubes. Checks pilot lamps and continuity of motors, etc. Checks for shorts and leakage between elements. Indicates gassy and noisy tubes. Filament voltage adjustable from 0.63 to 11 1/2 in 19 steps. Wood case covered in gray leatherette with white trim. Hinged, removable lid. Size, 14 1/2"x18 1/2"x6 1/2". For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 24 lbs. **84 FU 541. NET.....195.51**

MODEL 3413-B TUBE TESTER

- Top Performance at Low Cost
- Dual Sensitivity Neon Short Test
- Easy-to-Read, 3-Color 6" Meter

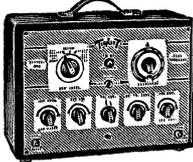
An extremely versatile tube tester. Checks all radio receiving tubes, including series-string types, ballasts, miniatures, and hearing aid cathodes. Dual-sensitivity, neon-type short test—shows inter-element short or leakage while cathodes are hot. Filament voltages from 0.63 to 110 in 19 steps. Flexible, 3-position lever switches for complete coverage of present and future tube types. Line voltage indicator permits observation and adjustment for line fluctuations. Checks TV picture tubes when used with T-2247-BV adapter listed below. Shows shorts, open circuits and condition of tube elements, connections, taps, etc.

Provides continuity test for electrical appliances, motors, etc. 6" meter with 3-color scale. Accurate BAD—?—GOOD tests. Built-in, Speed-Read chart. Counter-portable metal case; handle and removable cover. Size, 15 1/2"x11 1/2"x6 1/2". For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 28 lbs. **84 FU 591. NET.....77.91**

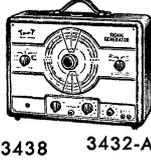
T-2247-BV Adapter. Adapts models 3413-B and 3423 for picture tubes. Shpg. wt., 1 lb. **84 F 539. NET.....5.29**

MODEL 666-HH VOM

(Not illustrated) similar in appearance to the Model 666-R, but does not have recessed knobs. A low-cost, compact 1000 ohm-per-volt VOM. Has 3" meter with 400-microamp meter movement. Ranges: AC and DC volts, 0-10-50-250-1000-5000 at 1000 ohms-per-volt; DC ma, 0-10-100-500; ohms, 0-2000-400,000. Accuracy, ± 3%. Only 3 jacks necessary for all ranges. Black plastic case, 5 1/2"x3 1/2"x2 1/2". Includes battery and 48" leads. Shpg. wt., 4 lbs. **84 F 555. NET.....26.95**



3438



3432-A

MODEL 3438 DOT GENERATOR

High-quality dot-bar generator for checking video, RF, IF, sync and color circuits. Provides standard vertical and horizontal sync pulses; horizontal bars (480-600 cps) and vertical bars (189 kc, crystal-controlled); white dot pattern; and square block cross hatch. Crystal controlled circuit for varying colors through approx. 330° the color circuit with any combination of the function selector. Will produce red, blue and green color spectrum and colors corresponding to R-Y, B-Y, I and Q axis. Has both positive and negative video outputs. Completely self-contained. Includes shielded, etched output cable, 6 1/2"x1 1/2"x1 1/2". For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 16 lbs. **84 FU 598. NET.....224.91**

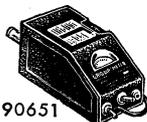
MODEL 3432-A SIGNAL GENERATOR

Quality signal generator for AM-FM radio, black-and-white and color TV servicing. Cathode follower output provides good stability by acting as buffer to the oscillator. Copper-and-steel shielded RF circuits. Covers complete range from 160 kc to 110 mc (220 mc using harmonics) with no skips in frequency. 6 1/2" etched dial. Jacks provided for either internal modulation or audio output. Internal modulation variable 0-100% at 400 cps. Ranges selected by 7-position switch. Coaxial output cable. Size: 15 1/2"x11 1/2"x6 1/2". For 110-120 v., 50-60 cycle AC. Shpg. wt., 12 lbs. **84 FU 677. NET.....97.51**

MILLEN TEST EQUIPMENT



90901



90651



Coils

Model 90901 1" Scope. For Amateur or industry. Use as: Metering indicator, null indicator, Lissajous screen, etc. Controls: Intensity, Vert. Ctr., Hor. Ctr. Sens: Vert., rms v/mm; Hor., 2.5 rms v/mm. Requires 600-950 v. DC @ 3.2 ma. and 6.3 v. @ 0.6 a. 2 1/2"x2 1/4"x4 1/2". With ICPI tube. Shpg. wt., 2 lbs. **84 F 907. NET.....38.25**

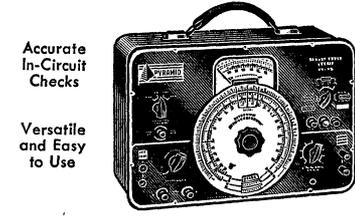
Model 90651 Grid Dip Meter. Useful as oscillator, detector, wavemeter, etc. 2" meter. 7 direct reading freq. scales and 0-100 scale. Plug-in coils supplied cover 1.7 to 300 mc. Terminals for battery operation. Shpg. wt., 3/2 lbs. **84 F 962. NET.....61.50**

LOW FREQUENCY COILS FOR GRID DIP METER

No.	Type	Range KC	EACH
84 F 966	46702	925-2000	6.72
84 F 967	46703	500-1050	
84 F 968	324704	320-600	
84 F 972	46705	220-350	

Model 46721 Probe. For above. Wt., 6 oz. **84 F 996. NET.....1.95**

PYRAMID ANALYZER

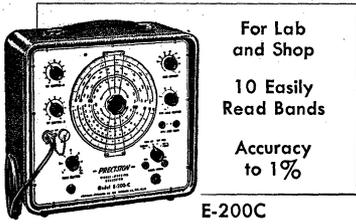


Accurate In-Circuit Checks
Versatile and Easy to Use

Model CRA-2 Capacitor-Resistor Analyzer. An extremely versatile, multipurpose capacitor-resistor analyzer. Perfect for the lab, radio-TV servicing and industrial applications. Makes quick "in-circuit" checks for open and shorted capacitance, intermittents, etc. Also measures resistance, capacitance, power factor, leakage and insulation resistance.

A combination Wien and Wheatstone bridge accurately measures capacitance from 10 mmf to 200 mfd in four ranges, at line frequency. Calibrated potentiometer measures power factor of wet or dry electrolytic capacitors in bridge circuit from 0 to 65% covering every practical rated working voltage range. Two resistance ranges in Wheatstone bridge circuit measure resistance from 100 ohms to 25 meg-ohms at line frequency. Highly accurate, 4 1/2" meter provides readings in two ranges of insulation-resistance measurements for ceramic, mica, air and paper dielectric capacitors. Two milliammeter ranges give direct leakage-current readings (from 0 to 50 ma) with rated working voltage (0-600) applied to the capacitor. Rotary switch selects test function and range. Push-button for safe discharge of capacitors. 12x16"x9". For 110-120 v., 50-60 cycle AC. Shpg. wt., 15 lbs. **84 FU 642. NET.....92.50**

Precision Test Equipment

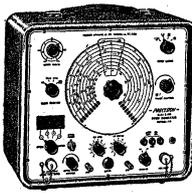


For Lab
and Shop

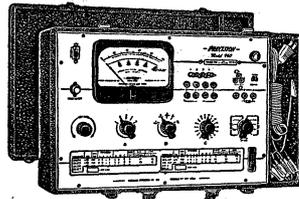
10 Easily
Read Bands

Accuracy
to 1%

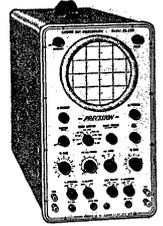
E-200C



E-400



960



ES-550

MODEL E-200C DELUXE SIGNAL-MARKER GENERATOR

Highly sensitive, deluxe signal-marker generator for AM, FM and TV alignment. For use with the E-400 below, or any other high-quality sweep signal generator. The E-200C is individually calibrated on each band against laboratory crystal standards. Features 1% accuracy on 10 easy-to-read ranges. Frequency coverage: 88 kc to 440 mc; to 110 mc on fundamentals. Large 6½" dial has 0-1000 vernier scale, direct-reading to 1 part in 1000. Employs "unit-oscillator" turret construction assuring utmost mechanical stability. Outputs: unmodulated RF; 400-cycle modulated RF; externally modulated RF; and 400-cycle sine wave audio output. Supplies 0-50 volts AVC-AGC voltage. Dual RF attenuators for smooth, stepless control of RF signal. Fully shielded components and transformer; AC line is RF filtered. With coax cable, "Lo-Hi" connectors, and illustrated manual, "Servicing by Signal Substitution." Hooded, blue-gray steel cabinet. Satin-brushed aluminum panel. Size, 11½x13x6½". For 110-120 v., 50-60 cycle AC. Shpg. wt., 17 lbs. 87 FU 000. Only \$9.31 Down. NET..... 93.10

MODEL E-400 DELUXE SWEEP GENERATOR

Deluxe portable sweep generator for television and FM servicing. Frequency range is 3-900 mc; to 240 mc on fundamentals; saves time on front-end alignment—read directly on panel dial—channel numbers 2 through 13 directly calibrated on dial. Has narrow and wide-band sweep—frequency widths: 0-1 mc and 0-15 mc. Built-in baseline reference. Self-contained multiple crystal marker-calibrator. Supplied with 2 crystals (2 mc and 4.5 mc). Special socket accommodates 4 crystals. Full vision, 6½ inch dial. Phasing control. Internal retrace blanking circuit simplifies alignment—eliminates return traces. Employs ceramic and air dielectric capacitors; mica-filled, low-loss sockets; etc. Supplied complete with test cables, tubes, comprehensive instruction manual, and 2 crystals. In custom-styled, handsome blue-gray, hooded steel cabinet; two-color satin brushed aluminum panel and contrasting dark blue control knobs. Deluxe cabinet, 11½x13x6½". For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 24 lbs. 87 FU 001. \$15.68 Down. NET..... 156.80

MODEL 960 TRANSISTOR & CRYSTAL DIODE TESTER

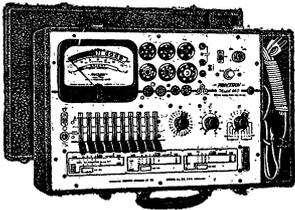
New, expertly engineered portable transistor and crystal diode tester. Designed in accordance with recommendations of leading transistor manufacturers. Provides comprehensive tests for I_{cb0}, gain, leakage, shorts, etc., on low, medium and high-power transistors of PNP and NPN types, as well as newest tetrode transistors. Direct reading in terms of true collector current on 5½", 100-microamp meter. Five I_{cb0} ranges; 17 collector potential steps from 0.5 v. DC to 100 v. DC. Five separate injection currents for low, medium and high-power types. Reliable check of emitter collector leakage current provides basis for accurate gain tests. 17 DC voltages for reverse current tests of crystal diodes; separate forward tests. All transistor test settings listed on high-speed roll chart. Patch cord element selector system for future semiconductor types. In sturdy, fabric-covered carrying case, 18x10½x6¼". Etched, 3-color aluminum panel. For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 15 lbs. 87 FU 029. Only \$8.72 Down. NET..... 87.22

MODEL ES-550 DELUXE 5" OSCILLOSCOPE

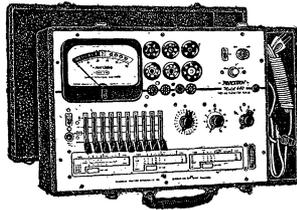
Excellent for servicing and lab work, including color TV; offers a 5-mc bandwidth. Push-pull vertical amplifier has 10 mv/inch sensitivity; response within 1 db, 10 cps to 3.5 mc; (3 db at 5 mc). Push-pull horizontal amplifier rated 100 mv/inch sensitivity; response within 1 db, 20 cps to 1 mc (3 db at 2 mc). Sweep frequency, 10 cycles to 100 kc; also 30 and 7875 cycles synchronized sweep. Negative and positive internal sweep. Vertical pattern reversal switching. Direct reading, peak-to-peak voltage calibrator, Z-axis input terminal for blanking, timing and marking. 8¼x14½x18½". For 110-120 volts, 50-60 cycle AC. Shpg. wt., 47 lbs. 87 FU 002. \$23.03 Down. NET..... 230.30

MODEL SP-5 PROBE SET. 4 probes (high-Z low-capacity, crystal, isolating, shielded); coax cables; connectors. For use with above scope. Shpg. wt., 3 lbs. 84 F 491. \$2.60 Down. NET..... 25.97

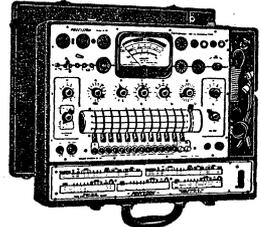
TUBE AND TRANSISTOR CHECKERS



660



640



10-60

MODEL 660 TUBE AND TRANSISTOR TESTER

Highly versatile tube and transistor tester. Has provisions for measuring the reverse current between collector and base with emitter open (I_{cb0}), shorts and leakage on all RF, audio, power and tetrode transistors—both NPN and PNP types. Crystal diodes tested in special circuit for both forward and reverse current. Employs all receiving tube testing features of the Model 640 at right. Has special circuit for testing picture-producing beam current on all TV picture tubes when used with Model PTA and PAA picture tube adapters (listed under Model 10-60, at right). Rugged 24-position rotary switch for selection of filament voltages from ¾ to 117 volts. 5¼" meter; accuracy to ±2%. Smooth action, 3-window roll chart has "Tube Finder" feature. Leatherette-covered carrying case with handy tool compartment; hinged, removable cover. 18x10½x6¼". For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 16 lbs. 87 FU 028. \$10.68 Down. NET.... 106.82

MODEL 640 CATHODE CONDUCTANCE TUBE TESTER

Here's a moderately priced cathode conductance tube tester—checks merit, leakage and shorts in TV, FM and AM tubes; tuning eyes and gas rectifiers; etc. Checks TV picture tubes with Model PTA and PAA adapters (listed under Model 10-60, at right). Designed to test each section of multi-section and ballast resistor-type tubes. Smooth-action, 24-position rotary switch selects filament voltages from ¾ to 117 volts—minimizes obsolescence due to new tube releases. Dual short-check sensitivity for standard and special short tests. Has handy built-in 7 and 9-pin straighteners. Easy-to-read 5¼" meter accurate to ±2%. High-speed, 3-window roll chart locates desired reference easily, quickly with "Tube Finder" feature. Leatherette-covered, solidly constructed carrying case with tool compartment and hinged, removable cover. Has etched, satin-brushed aluminum panel. 18x10½x6¼". For 110-120 v., 50-60 cycle AC. Shpg. wt., 16 lbs. 87 FU 027. \$7.79 Down. NET..... 77.91

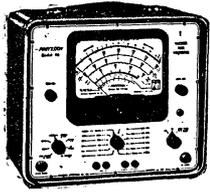
NEW MODEL 10-60 ELECTRONIC TUBE AND TRANSISTOR CHECKER

New, highly versatile instrument. Offers all of the comprehensive transistor and crystal diode testing features of the Model 960 tester above, plus complete testing of all modern tube types including subminiatures. Tests voltage regulator tubes for both voltage regulation and current limits. Ultra-sensitive gas test readings directly on 50-microamp, 5½" meter. Checks actual beam current of TV picture tubes with PTA and PAA adapters, below. Special low-voltage short-check circuit guards against damage to tubes under test. Stainless steel pin straighteners for 7 and 9-pin tubes. 5-window geared roll chart. 20x15x7". For 110-120 v., 50-60 cycle AC. 26 lbs. 87 FU 030. \$19.11 Down. NET..... 191.10

PICTURE TUBE ADAPTERS. For checking TV picture tubes with Precision tube testers. Type PTA is for all except 110° tubes; PAA for 110° tubes only. Shpg. wt., 1 lb. 84 F 492. Type PTA. NET..... 7.59 87 F 031. Type PAA. NET..... 4.90

Precision and Seco Test Equipment

PRECISION TEST EQUIPMENT



98-MCP

MODEL 98-MCP DELUXE VTVM

Deluxe, wide-range, laboratory-type VTVM with specially designed P-P circuit. Has easy-to-read 7" meter with 200 μ sensitivity; accuracy $\pm 2\%$. Ranges: Zero-center DC, AC rms and DC volts, 0-1.2-6-12-60-300-1200. P-F AC volts, 0-3.2-16-32-160-800-3200. Zero-center DC input resistance, 26.6 megohms. Resistance, 0-1000-100,000 ohms; 0-1-10-100-1000 megohms. DC current, 0-300 microamperes; 0-1.2-6-30-120-600 ma; 0-1.2-12 amps. 6 db ranges, -20 to +63 db. Metal cabinet, 11 $\frac{1}{2}$ x13x6 $\frac{1}{2}$ ". With 3-way probe. For 110-120 volts, 60 cycle AC. Shpg. wt., 18 lbs.

87 FZ 014. \$11.71 Down. NET.....117.11

MODEL TV-8 SUPER-HIGH VOLTAGE PROBE. For Model 88 or 98-MCP VTVM. Extends DC range to 60,000 v. 2 lbs.

84 F 681. NET.....14.45

MODEL RF-10A HIGH-FREQUENCY PROBE. For 98-MCP listed above. Extends response to 300 mc. Shpg. wt., 2 lbs.

84 F 419. NET.....14.11

MODEL 68 VTVM

Highly dependable AC-operated VTVM. Accurate and versatile. Has 5 zero-center ranges for FM discriminator balancing, etc. Large, 5 $\frac{1}{4}$ " wide-angle meter with 400-microampere sensitivity. Accuracy $\pm 2\%$. Uses 1% resistors. High input resistance of 13.3 megohms on DC ranges. DC volts, 0-3-12-60-300-1200. Resistance: 0-1000-100,000 ohms; 0-1-10-100-1000 megohms. AC volts, 0-3-12-60-300-1200. Peak-to-peak volts, 0-8-32-160-800-3200.

Steel cabinet 5 $\frac{1}{8}$ x7 $\frac{3}{4}$ x3 $\frac{1}{2}$ ". With battery and 3-way probe. For 110-120 volts, 60 cycle AC. Shpg. wt., 7 lbs.

87 F 018. \$5.34 Down. NET.....53.41



68



110

MODEL 110 MULTIMETER

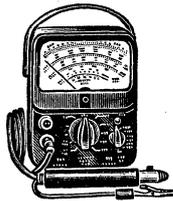
Highly useful, expertly constructed pocket-size VOM. Combines full-range instrument performance with small-sized convenience. Valuable aid to the radio-TV serviceman. Easily fits into tube caddy or tool kit—"on-hand" at all times. Ideal for field use, service calls, etc. Ranges: DC volts, 0-1.5-6-30-150-600-3000 (20,000 ohms per volt); AC volts, 0-1.5-6-30-150-600-3000 (5000 ohms per volt); DC current, 0-60-600 microamps and 0-6-60-600 ma; resistance, 0-2000-200,000 ohms and 0-20 megohms; db, from -20 to +70. 3 $\frac{1}{2}$ " meter with long, easy-reading scales; sensitivity 50 microamps. Full scale accuracy $\pm 2\%$. Supplied complete with vinyl-plastic cover; heavy-duty, banana-plug test leads; and batteries. Size (HWD), 5 $\frac{1}{8}$ x3 $\frac{1}{2}$ x1 $\frac{1}{16}$ " deep. Shpg. wt., 3 lbs.

87 F 023. \$3.38 Down. NET.....33.81

MODEL 88 VTVM

Highly sensitive vacuum tube voltmeter for laboratory and service-shop use. Employs full-bridge VTVM circuit with 1% multipliers and shunts for extremely accurate readings. Extra-large, wide-angle 5 $\frac{1}{4}$ " meter with easy-to-read, 3-color scales. 200 microamp sensitivity, $\pm 2\%$ accuracy. Reads AC rms in 6 ranges: 0-1.2-6-12-60-300-1200 volts. 6 peak-to-peak AC volt ranges: 0-3.2-16-32-160-800-3200. 5 resistance ranges: 0-1000-10,000 ohms; 0-1-10-100-1000 megohms. 6 zero-center DC ranges: 1200-300-60-12-6-1.2-0-1.2-6-12-60-300-1200 v. with 26 $\frac{2}{3}$ meg input resistance. Also 6-DC v. and 6-DC v. ranges: 0-1.2-6-12-60-300-1200, with 13 $\frac{1}{3}$ meg input resistance. In phenolic case 5 $\frac{1}{8}$ x7x3 $\frac{1}{8}$ ". With ohmmeter battery and probe. For 110-120 volts, 50-60 cycle AC. Wt., 8 lbs.

84 F 680. \$7.30 Down. NET.....73.01



88



SS-10

120

MODEL 120 MULTI-RANGE TESTER

- Extra-Large 5 $\frac{1}{4}$ " Meter
- DC Polarity Reversing Switch
- 20,000 Ohms/Volt DC Sensitivity
- High-Frequency AC/DB Ranges

Highly sensitive VOM. Has more ranges than most meters of its type and size. 1% multipliers and shunts; two jacks serve all standard ranges; $\pm 2\%$ accuracy at full scale; many other features. Ranges: AC, +DC, -DC, and output v., 0-1.2-3-12-60-300-600-1200-6000 with 5000 ohms per volt on AC and 20,000 ohms per volt on DC; DC current, 0-60-300 μ a, 0-1.2-12-120-600 ma. 0-12 amps; resistance, 0-200-2000-200,000 ohms, 0-2-20 megs; 8 db ranges, -20 to +77. 5 $\frac{1}{4}$ " meter. With batteries and test leads. 5 $\frac{1}{8}$ x7x3". 5 lbs.

84 F 490. \$4.41 Down. NET...44.05

MODEL 120M. As above, but 1/2% multipliers and 1% meter with mirrored scale. Shpg. wt., 5 lbs.

87 F 080. \$5.19 Down. NET....51.89

MODEL LC-3 CASE. Custom ever-ready type. Shpg. wt., 3 lbs.

84 F 496. NET.....9.31

MODEL TV-2B HV PROBE. Extends DC range to 30,000 v. Wt., 2 lbs.

84 F 495. NET.....14.45

MODEL ST-1 RETRACTABLE STAND. For Models 88, 120. Shpg. wt., 1 lb.

87 F 020. NET.....98c

MODEL SS-10. Tests tube filaments, fuses, and pilot lamps. Also checks continuity of transformer windings, appliances, etc. Has sockets for octal, loctal, and miniature 7 and 9 pin tubes. Built-in tube pin straighteners. With batteries. 5 $\frac{1}{8}$ x3 $\frac{1}{2}$ x1". 1 lb.

87 F 026. NET.....6.37

MODEL SS-10. Tests tube filaments, fuses, and pilot lamps. Also checks continuity of transformer windings, appliances, etc. Has sockets for octal, loctal, and miniature 7 and 9 pin tubes. Built-in tube pin straighteners. With batteries. 5 $\frac{1}{8}$ x3 $\frac{1}{2}$ x1". 1 lb.

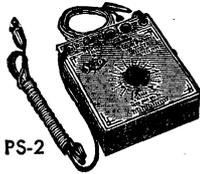
87 F 026. NET.....6.37

SECO TEST EQUIPMENT



208

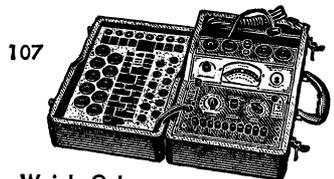
Sloping Panel Meter



PS-2



GCT-8



107

Weighs Only 11 1/4 lbs.

NEW MODEL 208 VTVM

Easy-to-use VTVM offering many deluxe features. Superior design includes: "shift-lever" function selector; 200 μ a, 4 $\frac{1}{2}$ " sloping panel meter—protected against burn-out; 1% film-type resistors; special RETMA (EIA) standard value ohms scale; separate HV-RF jack; coaxial inputs; independent line voltage check; meter damped in "off" position; balanced-bridge, push-pull circuit. Accuracy is within 3% on all scales. 11-meg DC input resistance. Reads AC RMS and DC volts: 0-1.5-5-15-50-150-500-1500 (50 kv DC with 1100 meg probe, not supplied). Ohms: 0-1000-10,000-100,000. Megohms: 0-1-10-100-1000. Center scale reading of 10. Size, 3 $\frac{1}{2}$ x5 $\frac{1}{2}$ x8 $\frac{1}{2}$ ". With leads and battery. For operation from 110-120 v., 50-1200 cycle AC. Shpg. wt., 5 lbs.

87 F 243. \$7.30 Down. NET.....73.01

NEW MODEL PS-2 TRANSISTOR RADIO BATTERY ELIMINATOR For servicing transistor radios, amplifiers, etc. Supplies continuously variable, filtered DC, 0-15 v. Maximum output, 100 ma. Cannot be damaged by short circuit. No motorboating—less than 2 ohms internal impedance. Output is isolated from power line by transformer. With 40 μ leads. 1 $\frac{1}{2}$ x4 $\frac{1}{2}$ x5". For 105-125 v., 50-60 cycle AC. Shpg. wt., 1 $\frac{1}{2}$ lbs.

87 F 244. NET.....13.67

NEW MODEL GCT-8 GRID CIRCUIT TESTER

Lightweight, versatile grid circuit tube tester. Perfect for use with any tube tester. Checks practically all of the popular 2-12 v. tubes—including many industrial types. Simultaneously tests control grid emission, filament continuity, gaseous condition, and for 9 types of shorts (grid-to-cathode, cathode-to-heater, grid-to-heater, grid-to-plate, plate to heater, grid-to-screen, screen-to-heater, heater-suppressor, and grid-to-suppressor). 10 sockets; 1 spare for new tube types. Size, 6 $\frac{1}{2}$ x2 $\frac{1}{2}$ x6 $\frac{1}{2}$ ". For operation from 105-115 v., 60 cycle AC. Shpg. wt., 4 lbs.

87 F 242. \$2.94 Down. NET....29.35

MODEL 107 ULTRA-COMPACT PORTABLE TUBE TESTER

Remarkably compact, precision tube tester. Provides all essential tests for wide range of tube types, including sub-miniature types. "Good-?Bad" meter shows results of dynamic mutual conductance test and cathode emission test; electron-eye indicates "control-grid-emission" test. Also checks for filament continuity, element leakage, open elements, and gassiness. Only 6x9x13 $\frac{1}{2}$ "; weight is only a fraction over 11 pounds! Handy "flip-chart" tube index. For 110-120 volts, 60 cycle AC. Shpg. wt., 14 $\frac{1}{2}$ lbs.

87 F 295. \$13.67 Down. NET.....136.71

Precise Test Equipment—Kits or Wired



- Both Emission & Gm Testing
- For Receiving & CR Tubes
- Simplified Operation

111-K

111 TUBE TESTER—KIT OR WIRED

MODEL 111-K. Advanced-design tube tester kit. Checks both emission and mutual conductance separately—roll chart indicates the most important single test for normal applications. Tests all receiving tubes; also tests CRT's with PTA-K adapter. Features rotary type switches; gas check; single-switch short check; latest type anti-backlash roll chart. Tests each tube element for shorts against other elements. Allows filament current and tube bias to be measured directly on the meter. Has spare switch to accommodate future tube types. Sturdy, wooden carrying case. Handsome, etched aluminum panel. Easy-to-follow step-by-step instruction manual. Size, 14x16x6". For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 25 lbs.

83 FU 133. NET. 79.95

MODEL 111-W. As above, but factory-wired.

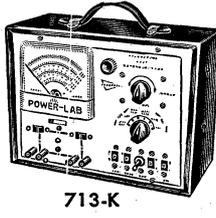
84 FU 692. NET. 139.95

MODEL PTA-K. CRT ADAPTER KIT. For above.

84 F 693. NET. 2.95

MODEL PTA-W. As above, but factory-wired.

84 F 694. NET. 4.25



713-K

713 POWER LAB—KIT OR WIRED

MODEL 713-K. Extremely versatile bench-type power supply kit—ideal for service shops and labs. Combines variable low and high-voltage AC and DC supplies, a wattmeter, voltmeter, AC and DC ammeter, and an isolation transformer in one compact unit. Performs function of 11 different pieces of equipment. DC power available is 0-30 v. at 10 amps and 110-180 v. at .75 amps. (1 amp intermittent). AC power available is 0-24 v. at 20 amps; 90-140 v. at 10 amps (1000 watts continuous) and 20 amps (2000 watts intermittent) (no isolation) and 90-140 v. at 3 amps, 300 watts (with isolation). Meter reads AC and DC current to 20 amps, AC and DC voltage to 180 v. and power to 2000 watts. 12x8 1/2 x 5 1/4". For 110-120 v., 60 cycle AC. Wt., 22 lbs.

83 FU 904. NET. 62.95

MODEL 713-W. As above, but factory-wired.

87 FU 266. NET. 79.95

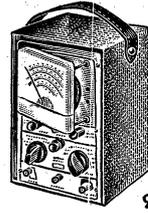
MODEL 711-K KIT. Similar to 713-K, but isolation to 100 watts. Shpg. wt., 15 lbs.

83 FU 903. NET. 49.95

MODEL 711-W. As above, factory-wired.

87 FU 265. NET. 64.95

Ideal, space-saving power kit—takes the place of 11 separate pieces of equipment.



904-K

NEW 904 VTVM—KIT OR WIRED

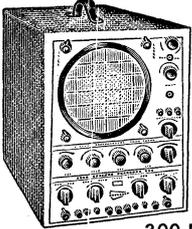
MODEL 904-K. An expertly designed VTVM kit with outstanding new features. Full-sized 4 1/2" meter has special construction—permits tilting dial up, down, or sideways for accurate readings at any angle. Dial includes zero-center scale for FM and TV discriminator alignment. A special switching circuit permits checking zero adjustment even when prods are connected to circuit under test. Fully regulated B+ and B- prevent changed readings when switching ground lead polarity. Etched circuit board also aids stability—simplifies kit assembly. DC input has coax connector. Meter protected against overload. Precision 1% ceramic resistors. Specifications: 11 megohm DC input impedance; ±DC and AC rms v.: 0-1.5-5-15-150-500-1500; AC peak to peak: 0-4-14-40-140-400-1400-4000. Resistance: 0-1000-10K-100K ohms; 0-1-10-100-1000 megohms. Complete with test leads. Size: 9 1/2 x 6 x 5". Wt., 10 lbs.

83 F 905. NET. 34.95

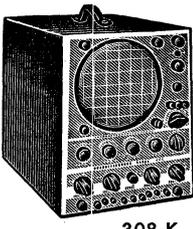
MODEL 904-W. Similar to above, but factory wired and tested.

83 FU 906. NET. 44.95

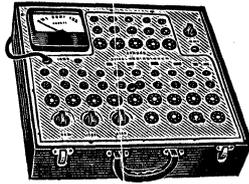
- Versatile, New, Precision VTVM
- Easily Read Tilting Meter
- Etched Circuit Easy to Build
- 1% Resistors



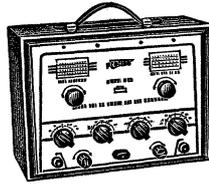
300-K



308-K



116-K



630-KA



9071-K

MODEL 300-K 7" SCOPE KIT

High-quality 7" scope kit. Vertical response, ±3 db up to 5 megacycles with sensitivity of 10 millivolts. Frequency-compensated vertical and horizontal stepping attenuators. Push-pull DC amplifiers; push-pull horizontal. Astigmatic focus control. Linear sweep from 1 cycle to 80 kc. Internal square wave calibrator with pot. Electronic magnifier circuit allows any portion of signal to be magnified up to 10 times. Screen is edge lighted—may be switched on or off. 5-way binding posts for easy hookup. Has plug gate and sawtooth outputs on front panel. Bridge type positioning on vertical and horizontal does not vary tube characteristics. Extra-heavy, fused power supply. Rugged steel cabinet. Size, 11x14x17". With all parts less solder. For 110-120 v., 60 cycle AC. Shpg. wt., 35 lbs.

83 FU 131. NET. 99.95

MODEL 960 CAPACITY ATTENUATOR PROBE. For use with Models 300 and 308 oscilloscopes. Range, through 100 mc. Input capacity, 7 mmf. Shpg. wt., 1 1/2 lbs.

84 F 691. NET. 5.95

MODEL 308-K 8 1/2" SCOPE KIT

Unusually fine, easily assembled, 8 1/2" scope kit at very moderate cost. Many deluxe features; excellent for any radio-TV servicing or laboratory application. Edge-illuminated 8 1/2" screen and magnifier positioner permit extremely accurate waveform analysis. Bridge type horizontal and vertical positioning does not vary tube characteristics. A third anode intensifier ring, as well as a separate high voltage supply provide increased picture sharpness and tracing speed. Has push-pull inputs for internally mixing 2 signals or observing push-pull waveforms. Exceptional vertical response; ±1.5 db to 5 mc. Sensitivity, 10 mv./inch. Return trace eliminator. Linear sweep, 1 cycle to 80 kc. Square-wave calibrator with potentiometer. External, internal negative or positive sync, or internal 60 or 120 cycle sync. Rugged steel cabinet. Size, 11x14x19". With all parts, wire, tubes and instructions; less solder. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 36 lbs.

83 FU 132. NET. 129.50

116 TUBE TESTER—KIT OR WIRED

MODEL 116-K. Accurate tube tester kit for rapid testing of all receiving-type tubes and transistors. Multiple-socket design permits testing of up to five similar tubes in 20 seconds. Makes emission Gm, gas, life, and short tests. Checks individual sections of multi-section tubes. Cover chart lists all popular tubes—gives switch settings. Sturdy wood case, 7 1/2 x 16 1/2 x 14 1/2". Complete with instructions. For 110-120 v., 60 cycle AC. Shpg. wt., 16 lbs.

83 FU 104. NET. 69.95

MODEL 116-W. Similar to above but factory wired.

84 FU 695. NET. 119.95

MODEL 9071-K VTVM KIT

Deluxe professional VTVM kit. Features: 7 1/2" meter, voltage regulation, 1% resistors, zero-center. Ranges: DC/AC volts, 0-5-25-250-500-1000; ohms, 0-1K-10K; megs., 0-1-10-1000; db, -20 to +55. Steel cabinet, 12x8 1/2 x 5". With test leads and instructions. For 110-120 v., 60 cycle AC. Shpg. wt., 11 lbs.

83 F 902. NET. 35.95

MODEL 912A RF PROBE. For above. Extends RF range to 250 mc. With shielded cable and connector. Shpg. wt., 1/2 lb.

87 F 260. NET. 4.25

630 SIGNAL GENERATOR—KIT OR WIRED

MODEL 630-KA. RF-AF-TV signal generator and marker kit. Reaches 110 mc on fundamentals; 330 mc on harmonics. Pre-assembled calibrated RF heads; audio, 20-20,000 cps; cathode follower output; variable percent modulation; external modulation; speech amp; crystal marker; RF and AF stand-by; Wien bridge AF osc.; Colpitts RF osc.; coax fittings. Also has constant output imp.; vernier tuning and complete shielding. Steel cabinet, 8x11x3 1/2". For 110-120 v., 60 cycle AC. Shpg. wt., 11 lbs.

83 FU 130. NET. 38.95

MODEL 630-W. Similar to above, but factory-wired.

84 FU 197. 53.95

Selected Test Equipment

WINTRONIX ANALYZERS FOR SIMPLIFIED SERVICING



850

INDUCED WAVEFORM ANALYZER

- Quick, Dependable Trouble-Shooting From Top of Chassis
- Makes Every Tube a Test Point

MODEL 850. This extremely versatile unit adapts your scope for quick, easy troubleshooting from the top of the chassis. Perfect for use with black and white and color TV sets (UHF and VHF), radios, amplifiers and many other pieces of electronic equipment.

Incorporates turret-type tuner with coils for selective pickup of TV channels and IF frequencies. Built-in RF detector and high-gain amplifiers. Has 4 input positions. First input covers the TV channels from 2 to 13 (turret selects individual channels) and 21 and 41-mc IF signals. Second input covers 3.58 mc (color-burst) and 4.5 mc IF signals. Third input gives general coverage of audio, video, RF and pulse signals. Last position for direct connection to scope.

Capacitive-pickup probes supplied cover all sizes of tubes, including multi-section types. Analyzer is usable to 890 mc (channel 83). Instruction book includes correct waveforms. 7x10½x6". For 105-125 v., 50-60 cycle AC. Shpg. wt., 12 lbs.

87 FU 239. \$17.00 Down. NET...169.95

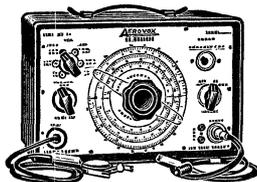
DYNAMIC AGC CIRCUIT ANALYZER

MODEL 825. Advanced-design instrument quickly pinpoints troubles in the AGC circuit of a TV set. Provides RF at the frequency of channel 2 or 3, with 15 kc sync pulse modulating signal. Also supplies AGC bias from +1 to -15 volts DC for insertion into set under test. Checks for continuity of AGC circuit; monitors DC value of AGC voltage and peak-to-peak value of gate pulse.

Adjustable for signal ranges to 100,000 μ v. (1000-25,000; 25,000-50,000; 50,000-100,000). Has 4½" clear plastic meter, with 5 scales. Meter ranges: VTVM 20-0-20 volts DC, VTVM 600-0-600 volts DC, 0-250 volts AC RMS, 0-800 volts p-p, 0-10 megohms. Case size, 7x10½x6". For operation from 105-125 v., 50-60 cycle AC. Wt., 12 lbs.

87 FU 240. \$8.00 Down. NET... 79.95

AEROVOX LC CHECKER



MODEL 97. Versatile instrument for service shops and laboratories. Measures "in-circuit" capacitance, checks relative "Q" and indicates leaky capacitors (under 100-megohm insulation resistance). Determines resonant frequencies from 150kc to 44 mc. May be used for RF-IF alignment of all-wave and shortwave receivers, and IF alignment of FM receivers. Indicates RF choke resonance points, and checks transmitter stages for parasitic current loops. Can be used for adjusting traps, filters, etc. Measures capacitance from 200 mmf to 3 mfd in 5 ranges. Size, 13x8½x6". With cables. For 110-120 v., 60-cycle AC. Wt., 9 lbs.

87 FU 294. \$7.00 Down. NET... 69.95



825

HI-FI AUDIO SYSTEM ANALYZER

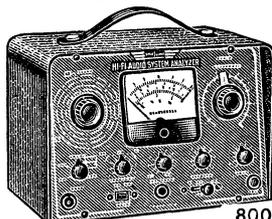
- Comprehensive Hi-Fi Servicing With One Compact Unit
- Quickly Pays for Itself

MODEL 800. Here's the modern approach to hi-fi servicing—6 audio instruments in one convenient unit. Combines a harmonic and IM distortion meter, VTVM, signal generator, wattmeter, and db and noise meter. All instrument functions integrated for quick, easy servicing—only 2 cable connections necessary.

Harmonic and IM distortion ranges: 0-100-30-10-3%; AC VTVM: ranges: 0-.01-.03-.1-.3-1-3-10-30-100-300 v. RMS; response, 10 cps to 100 kc, ± 1 db. Audio generator: 20-30,000 cps, 3 ranges; 0-5 v output. Wattmeter: 0-.15-1.5-15-150 mw and 0-1.5-150 W; response, 10 cps to 55 kc, ± 1 db; spkr. loads, 4, 8, 16, or 600 ohms. Db meter: -65 to 52 db, 10 ranges.

Size, 7x10½x6". With cables. For 105-125 v., 50-60 cycle AC. Wt., 12 lbs.

87 FU 327. \$17.00 Down. NET...169.95



800

DYNAMIC SWEEP CIRCUIT ANALYZER

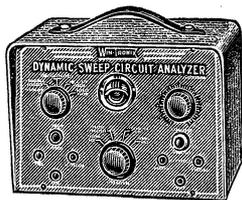
- Features Both Signal Substitution and Component Testing
- For Black and White or Color

MODEL 820. Employs signal substitution to quickly locate troubles in deflection circuits. Supplies 15-kc sawtooth for grid of horizontal output tube and 15-kc square wave for plate circuit to determine whether loss of high voltage is due to failure of oscillator or high voltage components. Built-in fly-back and yoke checker detects even one shorted turn. Provides 60-cycle sawtooth for checking vertical output stage. Use with adapter (below) to service sync circuits. With leads. 10x13½x9". For 105-125 v., 50-60 cycle AC. Shpg. wt., 10 lbs.

84 FU 637. \$7.00 Down. NET... 69.95

MODEL 915/960 SYNC PULSE ADAPTER. Selector switches provide positive or negative vertical and horizontal sync pulses. 4x2½x1¼". Shpg. wt., 1½ lbs.

84 F 638. NET...14.95



820

JACKSON TEST EQUIPMENT

MODEL 648A DYNAMIC TUBE TESTER

Easy-to-operate tube tester applies separate loads and voltages, selected to match normal operating conditions, to each tube element. Sequence switching with push-buttons makes set-up time less than the warm-up time of most tubes. 3-column roll chart with middle column in inverted order speeds location of set-up data for any tube. Data for newly announced tubes published monthly in PF Reporter. Checks inter-element leakage from 250K to 2 megohms. Life-line indicator tells when tube is nearing the end of its life. Meter reads good-bad and per cent of relative transconductance. Portable case, 16½x13½x6". For 110-120 v., 60 cycle AC. Shpg. wt., 23 lbs.

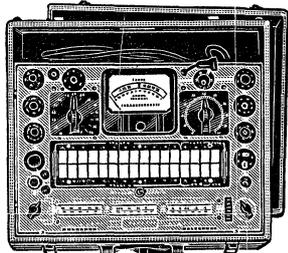
87 FU 130. \$12.74 Down. NET...127.35

MODEL 710 SELENIUM RECTIFIER TESTER

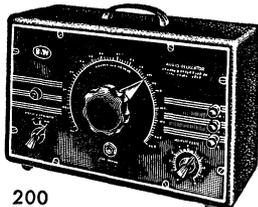
Compact instrument for accurately testing all selenium rectifiers tested 20 to 650 ma, 25 to 300 v. AC. Gives positive indication—Good or Replace—on 3" meter. Shows voltage drop across rectifier under load. Line-

adjust control for precise readings. Case size, 3¼x7½x4¼". Supplied with test leads. For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 5 lbs.

84 F 458. \$2.89 Down. NET...28.91



BARKER AND WILLIAMSON TEST EQUIPMENT



200

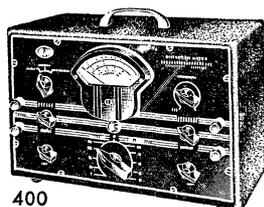
MODEL 200 AUDIO OSCILLATOR

Highly stable, accurately calibrated audio oscillator designed for service or experimental applications. RC type for making frequency response, distortion, and other audio measurements. Ranges: 30-300, 300-3000, 3000-30,000 cps. Output: 10 volts into 500-ohm load. Less than 1% rms harmonics from 30-15,000 cps, with 500-ohm load. Response: Better than ± 1 db from 30-15,000 cps. Calibration accuracy, 3% of scale reading. Rugged steel case is 13¼x7¼x9½". For operation from 105-125 volts, 50-60 cycles AC. Shpg. wt., 17 lbs.

84 FU 482. \$13.80 Down. NET...138.00

For Critical Distortion Measurements

Provides Stable, distortion-Free Output



400

MODEL 400 DISTORTION METER

Sensitive field or laboratory instrument for checking residual noise and harmonic content in low-level audio stages. Covers fundamentals from 30 to 15,000 cycles, harmonics to 45,000 cycles. May also be used as an audio voltmeter and db meter in the range of 30 to 45,000 cycles. Voltage range: 0-.003-.01-.03-.1-3 v. AC. 0.3 v. minimum input for noise and distortion readings. Calibration accuracy: distortion, ± 0.5 db; voltage, $\pm 5\%$ of full scale at 1000 cycles. 4½" meter. 9½x13½x7¼". 105-125 v., 50-60 cycle AC. 17 lbs.

84 FU 483. \$16.80 Down. NET...168.00

Selected Test Equipment

SENCORE "TIME-SAVER" TEST EQUIPMENT



FC-4

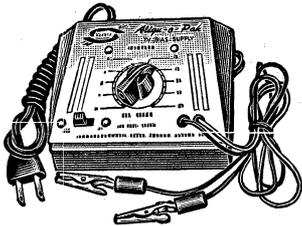
FC-4 TUBE FILAMENT CHECKER

- Dependable, Low-Cost Tester
- Checks Series-String Tubes
- Includes Neon Voltage Indicator

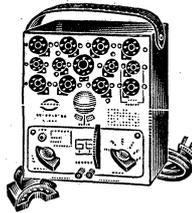
Handy filament checker for quickly locating bad tubes in series-string TV receivers, such as G.E., Admiral, Motorola, Crosley, etc. Test is extremely simple. Power cord is disconnected from television set and plugged into checker. The tube in question is inserted into one of 4 sockets—if neon lamp goes out, filament is good. Also checks voltages (100-600 v.) and tests for continuity of appliances, motor windings, etc. Size, 3 1/4 x 4 1/4". With leads. For 110-120 v., AC or DC. Shpg. wt., 1 lb.
84 F 697. NET.....2.89

BE-3 TV BIAS SUPPLY

Isolated variable bias supply. Provides all DC battery voltages for TV alignment—especially useful for AGC trouble-shooting. Output, 0 to 18 volts DC, positive or negative, with AC ripple of less than 0.1%. Includes 28" leads. 2 1/2 x 4 x 4". For 110-120 v., 60 cycle AC. Shpg. wt., 2 lbs.
84 F 696. NET.....7.69



BE-3



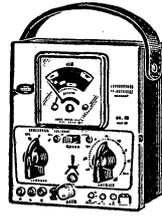
LC-3

LC-3 TUBE-CAPACITOR CHECKER

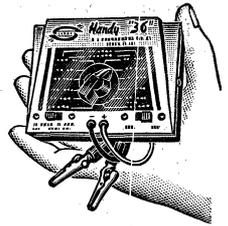
Versatile checker for detecting leakage in capacitors or between tube elements. Tests 144 tube types; checks CRT's without removal from cabinet or chassis. Designed to prevent obsolescence—features handy roll chart with tube listings; new chart available from manufacturer as tubes are released. Indicates grid-to-cathode leakage in tubes up to 100 megohms; heater-to-cathode leakage up to 50,000 ohms. Tests capacitors by applying 50 volts. Indicates leakage up to 50,000 ohms in electrolytic capacitors and up to 100 megohms in paper types. With leads. 7x6x3 1/2". For 110-120 v., 50-60 cycle AC. Shpg. wt., 3 1/2 lbs.
83 F 981. \$2.84 Down. NET.....28.37

TRC-4 TRANSISTOR & DIODE CHECKER

Battery-operated transistor, crystal diode, and selenium rectifier checker. Tests transistors for opens, shorts, leakage and current gain; includes gain test for power types. Gives forward and reverse current ratio of diodes and rectifiers. With leads and battery. 4 1/2 x 5 x 2 1/4". Shpg. wt., 2 lbs.
87 F 287. NET.....17.59



TRC-4



H-36

H-36 SUBSTITUTION UNIT

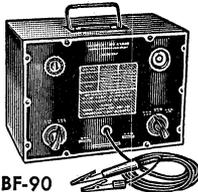
Handy for shop or outside service. 3-pole, 12-position switch selects any one of 36 components. Has 12—1-watt resistors, 10 to 5K ohms; 12—1/2-watt, 10K to 5.6 megs; 10—600 v. capacitors, 100 mmf. to .5 mfd; 1 ea. 10 and 40 mfd. 450 v. electrolytics. Simply insert R or C value into circuit with test leads. If a part is already in the circuit, disconnect one end. With leads and case. Size: 2x4 3/4 x 3 3/4". Shpg. wt., 2 lbs.
87 F 269. NET.....12.49

VB-2 "VIBRA-DAPTOR"

Permits any tube tester to check vibrators. Plug VB-2 into tube tester, and set for 6AX4 for 6-volt vibrators or 12AX4 for 12-volt vibrators. Has sockets for 3- or 4-prong vibrators. Two lamps on the adaptor indicate condition of the vibrator. Uses 2 #51 lamps, recessed for protection. Steel case with instructions on front. Size, 3 3/4 x 1 3/4 x 1 3/4". Shpg. wt., 5 oz.
87 F 278. NET.....2.69



CORNELL-DUBILIER TEST EQUIPMENT



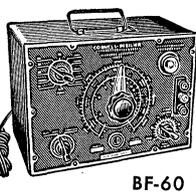
BF-90

MODEL BF-90 "HANDICHECK" CAPACITOR CHECKER

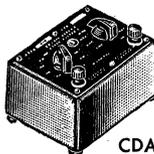
Quickly and conveniently check capacitors of all types without removing them from the circuit. "Magic-Eye" indicates shorted, open, or intermittent condition. 60 cycle test for direct or intermittent short; 20 mc test for open or intermittent capacitors. Checks capacitors from 30 mmfd to 2000 mfd for open, short or intermittent condition even when connected across resistances as low as 50 ohms. Capacitors from .1 mfd to 2000 mfd can be checked for short circuit even when connected in parallel with a resistance as low as 1 ohm. Size: 7x10x5 1/2". With leads and test clips. For 110-125 volts, 60 cycle AC. Shpg. wt., 8 lbs.
84 F 619. \$3.80 Down. NET.....37.95

BF-60 CAPACITOR-RESISTOR BRIDGE

Precision instrument for industrial and electronic labs. Checks for opens, shorts, intermittents, capacity and power factor of electrolytics as well as insulation resistance of papers, micas and ceramics. Measures capacity between wires and shielding, transformer windings, wires in cables, etc. Capacity ranges are: 10 mmf-.005 mfd, .001-5 mfd, .1-50 mfd, 20-1000 mfd. Resistance ranges: 100-50,000 ohms and 10,000 ohms to 5 megohms. Sturdy case with handsome, hammered-enamel finish. Size: 5 1/2 x 7 x 10". For operation from 110-125 volts, 50-60 cycle AC. Shpg. wt., 10 lbs.
84 F 457. \$4.72 Down. NET.....47.15



BF-60



CDA

CAPACITOR DECADES

Provide accurate standards over a wide range of capacity. Rated at 600 volts DC and 220 volts AC. May be used singly or in groups of two or more decades. With calibration chart giving exact capacity values for all scale markings, extending use to more precise measurements. Types CDA-5, CDB-5, and CDC-5, ±5%; CDB-3 and CDC-3, ±3% tolerance. CDA-5 has mica capacitors; others have oil-impregnated paper capacitors. 3 3/4 x 5 x 3 1/2". Wt., 4 lbs.

Stock No.	Mfr's Type	Range Mfd	Mfd./Step	NET EACH
84 F 452	CDA-5	.0001-.011	.0001	12.25
84 F 453	CDB-5	.01-1.1	.01	12.25
84 F 455	CDB-3	.01-1.1	.01	14.55
84 F 454	CDC-5	1.0-10	1.0	21.51
84 F 456	CDC-3	1.0-10	1.0	23.71

RESISTANCE DECADES

Dependable source of resistance for substitution use. Each decade permits selection of 110 resistance values. Series connected, they cover a range from 1 ohm to 1,111,110 ohms in 1-ohm steps. Have 2 rotary switches with 11 positions for quick change in resistance values. Less leads. 3 3/4 x 5 x 3". Wt., 1 3/4 lbs.

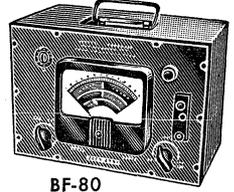
Stock No.	Mfr's Type	Range Ohms	Ohms/Step	NET EACH
84 F 615	RDA	1-110	1	13.08
84 F 616	RDB	100-11,000	100	13.47
84 F 617	RDC	10,000-1,100,000	10,000	13.47



BF-70

BF-70 CAPACITANCE-RESISTANCE ANALYZER

Accurately checks capacitors and resistors. Wien bridge circuit assures permanent accuracy; readings not affected by line voltage variations. Measures capacity from .00001 to 2000 mfd in 4 ranges. Checks power factor of electrolytics from 0 to 50%. Indicates insulation resistance of paper, mica, and ceramic capacitors. Built-in VOM for leakage measurement. VOM ranges: DC volts, 0-15-150-750; DC ma, 0-1.5-15-75; DC resistance, 2.5-2500 ohms, 250-250,000 ohms, 250,000 ohms to 25 megs. Metal case. Gray, 11x10x5 1/2". For 110-125 v., 50-60 cycle AC. Shpg. wt., 11 lbs.
84 FU 613. \$7.87 Down. NET.....78.65



BF-80

BF-80 FLYBACK-YOKE CHECKER

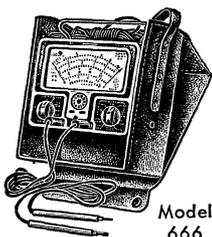
For rapidly locating defects in flyback transformers and yokes. Employs an oscillator circuit incorporating a 6V6 tube. Extremely sensitive—detects short circuited vacuum tube elements and windings. Will detect a single shorted turn. Also indicates open circuits in transformers, yokes, coils and switches. 4 1/2" microammeter; 50 microamp full-scale sensitivity. Meter scale indicates "GOOD" and "REPLACE"; scale is also numbered for quantitative readings. Sturdy metal case; recessed carrying handle. 5 1/2 x 7 x 10". With test leads. For operation from 110-125 v., 60 cycles AC. Shpg. wt., 9 1/2 lbs.
84 FU 618. \$5.11 Down. NET.....51.10

Phoastron Testers and Meters

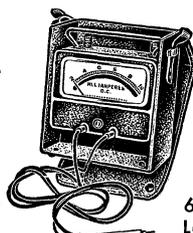
MODEL 666 VOM

- Meter Overload Protection Feature
- Illuminated Dial for Easier Reading

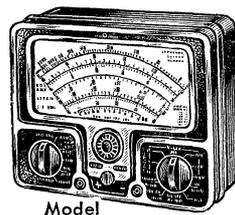
Features signal light to show overload or incorrect polarity. Fused to protect against burnouts. Large, 4 7/8" color-coded scales are illuminated. Anti-magnetic, chrome and black metal case. 43 ranges. Sensitivity: 20,000 ohms-per-volt DC; 2,000 ohms-per-volt AC. AC current ranges: 0-1.5-5-15-50-150-500 ma and 0-15 amps. DC current ranges: 0-50-150-500 microamps, 0-1.5-15-50-105-500-1500 ma and 0-15 amps. Resistance: 0-1000-100,000 ohms, 0-1-10 megohms, AC and DC volts: 0-1.5-5-15-50-150-500-1500 volts, 6 decibel ranges—10 to +56 db. With probes, batteries, power cord, carrying case. Plugs into 105-125 v. AC or DC outlet for illumination of meter. Size, 6 5/8" wide, 7 1/2" high, and 3 1/4" deep. Shpg. wt., 6 1/2 lbs.
87 F 275. NET.....63.21



Model 666 VOM



6" Lab Meter



Model 555-A

PORTABLE 6" LAB STANDARD METERS

Extremely accurate, portable secondary-standard meters. Metal-cased with double-shielded meter movements for excellent protection from stray magnetic fields. Overload network prevents burnouts. Has mirrored scale; leather carrying case with strap (may be removed and carried by handle on meter itself); test lead jacks and 3-way binding posts. Zero adjust. Accuracy, ±1/2%, except ±1%. Scale size, 4.37". With test leads. †Range switch, 3/4x6 1/2x1 1/2". Shpg. wt., 5 lbs.

Stock No.	Description	Ranges	NET
67 F 733	DC Milliammeter	0-1	58.80
67 F 736	AC Voltmeter*	0-150	58.80
67 F 737	DC Current Meter†	0-50-150-500 microamps; 1.5-5-15 milliamps	137.20
67 F 738	DC Voltmeter†	0-0.1-0.5-1-5-10-50	91.14
67 F 739	DC Voltmeter†	0-5-15-50-150-500-1500	91.14

MODEL 555-A MULTIMETER

Highly accurate volt-ohm-milliammeter. Has very large (4 7/8") meter scale, yet it's ultra-compact. Extremely rugged, black metal case with polished bezel. Has double magnetic shielding for maximum accuracy of calibration undermost all circumstances. Color-coded meter scale for easy reading. Sensitivity, 20,000 ohms-per-volt DC; 2,000 ohms-per-volt AC. DC current ranges: 0-1.5-5-15-50-150-500-1500 milliamperes and 0-15 amperes. 0-50-150-500 microamps; AC current ranges: 0-1.5-5-15-50-150-500-1500 milliamperes and 0-15 amperes. Resistance ranges: 0-1000-100,000 ohms; 0-10 megohms. DC volts: 0-1.5-5-15-50-150-500-1500 volts, 6 decibel ranges—10 to +56. Meter movement is protected up to 1000 times overload by a rectifier network. Supplies complete with probes and batteries. Size, 4 1/2x6 1/4x2 1/4". Shpg. wt., 5 lbs.
84 F 684. NET.....44.05
MODEL 555-CC LEATHER CARRYING CASE. Shpg. wt., 6 oz.
84 F 686. NET.....7.79

CUSTOM METAL-CASED PANEL METERS

6" Rectangular Custom Panel Meters. (Not illustrated.) Combine dependable performance with high-style functional design. Steel-case, magnetically shielded from stray magnetic fields—may be mounted on any panel without affecting calibration. Mirrored scales overcome parallax. Large, clear, easy-to-read scale. Permanent DC accuracy; 0-20, 0-50 microamperes, ±2% on all others, ±1%. Flange size, 4 1/2x6 1/2"; barrel depth 7/8"; barrel dia. 2 1/8". Solid black finish. Av. shpg. wt., 2 1/4 lbs.

4 1/2" Rectangular Custom Panel Meters. Designed for long service and reliable performance. Feature drawn metal cases for shielding from stray magnetic fields—calibration is unaffected by type of panel. Large, easy-to-read scales. Permanent DC accuracy, ±2%. Flange, 4 1/2x6 1/2"; barrel depth, 7/8"; barrel dia., 2 1/8". Black finish. Av. shpg. wt., 2 1/4 lbs. 4 1/2" meters finished in black with polished chrome bezel available on special order. Write for prices and delivery.



DC VOLTMETERS

Range Volts	4 1/2" Rectangular			6" Rectangular				
	Stock No.	NET EACH			Stock No.	NET EACH		
0-10	67 F 709				67 F 725			
0-50	67 F 708	16.46	14.82	13.99	67 F 726	21.61	19.45	18.36
0-150	67 F 711				67 F 727			
0-300	67 F 712	16.46	14.82	13.99	67 F 728	21.61	19.45	18.36
0-500	67 F 713				67 F 729			

DC MILLIAMMETERS

Range Ma	4 1/2" Rectangular			6" Rectangular				
	Stock No.	NET EACH			Stock No.	NET EACH		
0-1	67 F 704				67 F 720			
0-5	67 F 705	15.24	13.72	12.96	67 F 721	20.43	18.38	17.36
0-10	67 F 706				67 F 722			
0-50	67 F 707	15.24	13.72	12.96	67 F 723	20.43	18.38	17.36

DC MICROAMMETERS

Range µa	4 1/2" Rectangular			6" Rectangular				
	Stock No.	NET EACH			Stock No.	NET EACH		
0-50	67 F 746	24.69	22.22	20.99	67 F 796	38.07	34.26	33.02
0-20	67 F 747	21.36	19.23	18.16	67 F 716	35.62	32.06	30.28
0-100	67 F 748	18.86	16.97	16.03	67 F 717	30.73	29.03	28.03
0-200	67 F 777	16.46	14.82	13.99	67 F 787	24.06	21.66	20.45

Range µa	4 1/2" Rectangular			6" Rectangular				
	Stock No.	NET EACH			Stock No.	NET EACH		
0-500	67 F 778	15.88	14.49	13.49	67 F 788	22.83	20.55	19.40
100-0-100	67 F 779	18.86	16.97	16.03	67 F 789	34.16	30.73	29.03
500-0-500	67 F 702	16.46	14.82	13.99	67 F 719	20.43	18.38	17.36
	67 F 703	15.24	13.72	12.96				

DC AMMETERS

Range Amps.	4 1/2" Rectangular			6" Rectangular				
	Stock No.	NET EACH			Stock No.	NET EACH		
0-1	67 F 759				67 F 769			
0-10	67 F 708	15.24	13.72	12.96	67 F 724	20.43	18.38	17.36
0-50	67 F 776				67 F 786			

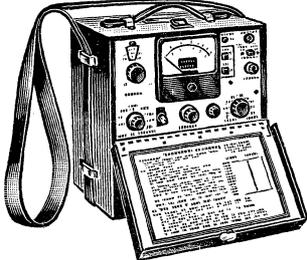
VOLUME UNIT METERS—SCALE A

NET EACH	2 1/2" Rnd.	2 1/2" Sq.	3 1/2" Rect.	4 1/2" Rect.	6" Rect.
	67 F 946	67 F 947	67 F 999	67 F 715	67 F 731
1-9	20.14	20.14	24.35	25.58	30.77
10-24	18.12	18.12	23.87	25.02	27.69
25-Up	17.10	17.10	20.70	21.74	26.15

JERROLD FIELD STRENGTH METERS

- Direct Reading
- Reads Down to 5 µv
- Covers 54-220 Mc.

Model 704-B Portable VHF Field Strength Meter. Useful for field intensity surveys, balancing TV distribution systems, testing color response of antenna systems, checking per cent of amplitude modulation of FM carriers or RF signal generators, measuring radiation, studying antenna patterns, locating and measuring noise losses, calibrating signal generators, adjusting traps and numerous other applications.

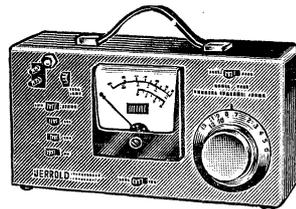


Frequency range: Continuously tuneable, 54 to 220 mc. Sensitivity: from 5 microvolts to 3 volts. Accuracy: ±2 db over entire range. Ranges: 0-100-300-1000-10,000-30,000 microvolts RF; with use of built-in precision attenuator, measures 0-0.1-0.3-1-3 volts RF. Selectivity: 0.6 mc bandwidth at 3 db down. Image rejection: 90 db below signal level.

Db meter scale on dial with dbj scale on range switch for easy conversion to dbj (gain). Audio and video output jacks. 12x12 1/4x8". For 105-125 v., 50-60 cycle AC. Shpg. wt., 24 lbs.
87 F 293. Only \$36.50 Down. NET.....365.00

- Direct Reading
- Lightweight—4 1/2 lbs.
- For TV Channels 2-13

Model TMT Portable TV Field Strength Meter. Transistorized portable field strength meter for television signal measurements. Extremely versatile—lends itself to many television applications such as: Checking antenna performance on service calls; antenna orientation; measurement of television signals in TV distribution systems; and for signal probing from roof tops, vehicles, on hillsides and other locations where portability and battery operation are necessary.



Tuning knob is directly calibrated in TV channels—covers channels 2 to 13. In operation, the meter is relatively immune to noise and interfering signals—responds only to the channel to which the meter has been tuned, thus eliminating false readings. Has both 75 and 300 ohm inputs for coaxial or twin lead.

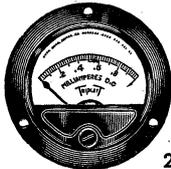
Ranges: With 75-ohm input, 0-1000-3000-10,000-30,000-100,000-300,000-1,000,000-3,000,000 microvolts; with 300-ohm input, 0-2000-6000-20,000-60,000-200,000-600,000-2,000,000-6,000,000 microvolts. Meter is also calibrated in db. Accuracy ±3 db. Gives up to 200 hours operation with 4 flashlight cells (not supplied—use Burgess Type 2R, see page 424). Shpg. wt., 5 1/2 lbs.
87 F 388. Only \$10.95 Down. NET.....109.50

Include Range and Model Number on Meter Orders

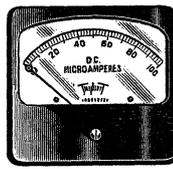
Triplett Glass Front Panel Meters



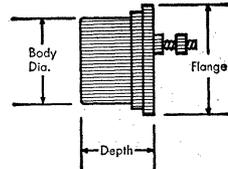
2 1/2", 3"



2 1/2", 3 1/2"



4 1/2"



SPECIFICATIONS: Accuracy, within 2% of full scale. DC meters have D'Arsonval moving coil movements. Jeweled bearings and hardened alloy steel pivots assure highly dependable service. Metal dial faces, finished in white enamel, will not warp, crack or discolor under normal conditions. Have molded zero-adjusters and cushioned ceramic pointer stops. All parts are heat-treated to eliminate strains and stresses, and to assure accurate alignment. Rigidity and alignment of bearing supports provide protection against vibrations. Steel parts are rustproofed. Black bakelite cases. Av. shgp. wt., 1 1/2 lbs. When ordering, include Range and Model Number of meter. *In size table indicates depth of meter but does not include terminals.

ATTENTION INDUSTRIAL BUYERS: Allied can make prompt shipment of Triplett meters in any quantity. For prices on quantities of 50 or more—contact our Industrial Division.

METER DIMENSIONS

ROUND FLUSH MOUNTING

Model No.	Flange	Body Dia.	*Depth	Scale Length
221T	2 1/4"	2 7/8"	1 5/8"	1.76"
231S	2 1/4"	2 7/8"	1 5/8"	1.58"
321T	3 1/2"	2 3/4"	1 5/8"	2.49"
331S	3 1/2"	2 3/4"	1 5/8"	2.22"
361	3 1/2"	2 3/4"	1 5/8"	2.22"

RECTANGULAR FLUSH MOUNTING

Model No.	Flange	Body Dia.	*Depth	Scale Length
227T	2 3/8x2 3/8"	2 5/8"	1"	1.76"
237S	2 3/8x2 3/8"	2 5/8"	1 3/8"	1.58"
327T	3x3"	2 3/4"	1"	2.49"
337S	3x3"	2 3/4"	1 3/8"	2.22"
420	4 5/8x4 3/8"	2 3/4"	1 1/8"	4.06"
430	4 5/8x4 3/8"	2 3/4"	1 1/8"	3.6"

DC MILLIAMMETERS

Range	221T 2 1/2" Rnd.	227T 2 1/2" Rect.	1 to 9 EACH	10 to 24, EACH	25 to 49, EACH	327T 3" Rect.	321T 3 1/2" Rnd.	1 to 9, EACH	10 to 24, EACH	25 to 49, EACH	420 4 1/2" Rect.	1 to 9, EACH	10 to 24, EACH	25 to 49, EACH
0-1	66 F 150	66 F 170	9.70	8.73	8.25	66 F 120	66 F 100	10.29	9.26	8.75	66 F 136	11.37	10.23	9.66
0-1.5	66 F 151	66 F 171				66 F 121	66 F 101				66 F 136			
0-3	66 F 152	66 F 172				66 F 118	66 F 115				66 F 137			
0-5	66 F 152	66 F 172				66 F 122	66 F 102				66 F 138			
0-10	66 F 153	66 F 173	9.70	8.73	8.25	66 F 123	66 F 103	10.29	9.26	8.75	66 F 138	11.37	10.23	9.66
0-15	66 F 154	66 F 174				66 F 124	66 F 104				66 F 139			
0-25	66 F 155	66 F 175				66 F 125	66 F 105				66 F 140			
0-50	66 F 156	66 F 176	10.09	9.08	8.58	66 F 126	66 F 106	10.68	9.61	9.07	66 F 141	11.76	10.58	10.00
0-75	66 F 156	66 F 176				66 F 119	66 F 116				66 F 142			
0-100	66 F 157	66 F 177				66 F 127	66 F 107				66 F 143			
0-150	66 F 158	66 F 178	10.09	9.08	8.58	66 F 128	66 F 108	10.68	9.61	9.07	66 F 143	11.76	10.58	10.00
0-200	66 F 159	66 F 179				66 F 129	66 F 109				66 F 144			
0-250	66 F 160	66 F 180				66 F 130	66 F 110				66 F 145			
0-300	66 F 161	66 F 181	10.09	9.08	8.58	66 F 131	66 F 111	10.68	9.61	9.07	66 F 146	11.76	10.58	10.00
0-400	66 F 167	66 F 187				66 F 135	66 F 117				66 F 149			
0-500	66 F 162	66 F 182				66 F 132	66 F 112				66 F 147			
0-750	66 F 163	66 F 183	10.09	9.08	8.58	66 F 133	66 F 113	10.68	9.61	9.07	66 F 148	11.76	10.58	10.00
0-1000	66 F 164	66 F 184				66 F 134	66 F 114				66 F 149			

DC MICROAMMETERS

Range	221T 2 1/2" Rnd.	227T 2 1/2" Rect.	1 to 9 EACH	10 to 24, EACH	25 to 49, EACH	327T 3" Rect.	321T 3 1/2" Rnd.	1 to 9, EACH	10 to 24, EACH	25 to 49, EACH	420 4 1/2" Rect.	1 to 9, EACH	10 to 24, EACH	25 to 49, EACH
0-20	66 F 054	66 F 015	17.25	15.52	14.66	66 F 059	66 F 049	17.84	16.05	15.16	66 F 065	18.91	17.02	16.08
0-50	66 F 055	66 F 016	14.60	13.14	12.41	66 F 060	66 F 050	15.09	13.58	12.83	66 F 066	16.17	14.55	13.75
0-100	66 F 056	66 F 017	12.74	11.47	10.83	66 F 061	66 F 051	13.23	11.91	11.25	66 F 067	14.31	12.88	12.16
0-200	66 F 057	66 F 018	10.88	9.79	9.25	66 F 062	66 F 052	11.47	10.32	9.75	66 F 068	12.44	11.29	10.66
0-500	66 F 058	66 F 019	10.39	9.35	8.83	66 F 063	66 F 053	10.88	9.79	9.25	66 F 069	11.96	10.76	10.16

DC AMMETERS

Range	221T 2 1/2" Rnd.	227T 2 1/2" Rect.	1 to 9 EACH	10 to 24, EACH	25 to 49, EACH	327T 3" Rect.	321T 3 1/2" Rnd.	1 to 9, EACH	10 to 24, EACH	25 to 49, EACH	420 4 1/2" Rect.	1 to 9, EACH	10 to 24, EACH	25 to 49, EACH
0-1	66 F 510	66 F 525	9.70	8.73	8.25	66 F 450	66 F 440	10.29	9.26	8.75	66 F 460	11.37	10.23	9.66
0-10	66 F 511	66 F 526	10.49	9.44	8.91	66 F 451	66 F 441	10.98	9.88	9.33	66 F 461	12.05	10.85	10.25
0-50	66 F 512	66 F 527	10.49	9.44	8.91	66 F 452	66 F 442	10.98	9.88	9.33	66 F 462	12.05	10.85	10.25
0-15	66 F 513	66 F 528	10.49	9.44	8.91	66 F 453	66 F 443	10.98	9.88	9.33	66 F 463	12.05	10.85	10.25
0-25	66 F 514	66 F 529	10.49	9.44	8.91	66 F 454	66 F 444	10.98	9.88	9.33	66 F 464	12.05	10.85	10.25
0-30	66 F 515	66 F 530	10.49	9.44	8.91	66 F 455	66 F 445	10.98	9.88	9.33	66 F 465	12.05	10.85	10.25
0-50	66 F 517	66 F 532	10.49	9.44	8.91	66 F 542	66 F 522	10.98	9.88	9.33	66 F 467	12.05	10.85	10.25
0-100	66 F 518	66 F 533	17.25	15.52	14.66	66 F 543	66 F 523	17.84	16.05	15.16	66 F 468	18.91	17.02	16.08
0-200	66 F 519	66 F 534	17.25	15.52	14.66	66 F 544	66 F 524	17.84	16.05	15.16	66 F 469	18.91	17.02	16.08
0-300	66 F 520	66 F 535	18.72	16.85	15.91	66 F 545	66 F 525	19.31	17.38	16.41	66 F 458	20.38	18.35	17.33
0-500	66 F 521	66 F 536	23.52	21.17	19.99	66 F 546	66 F 526	24.11	21.70	20.49	66 F 459	25.19	22.67	21.41

AC AMMETERS

Range	231S 2 1/2" Rnd.	237S 2 1/2" Rect.	1 to 9 EACH	10 to 24, EACH	25 to 49, EACH	337S 3" Rect.	331S 3 1/2" Rnd.	1 to 9, EACH	10 to 24, EACH	25 to 49, EACH	430 4 1/2" Rect.	1 to 9, EACH	10 to 24, EACH	25 to 49, EACH
0-1	66 F 340	66 F 350				66 F 320	66 F 300	10.29	9.26	8.75	66 F 330	11.37	10.23	9.66
0-2	66 F 341	66 F 351				66 F 321	66 F 301				66 F 331			
0-3	66 F 342	66 F 352	9.70	8.73	8.25	66 F 322	66 F 302	10.29	9.26	8.75	66 F 332	11.37	10.23	9.66
0-5	66 F 343	66 F 353				66 F 323	66 F 303				66 F 333			
0-10	66 F 344	66 F 354				66 F 324	66 F 304	10.29	9.26	8.75	66 F 334	11.37	10.23	9.66
0-15	66 F 347	66 F 357				66 F 328	66 F 308	10.29	9.26	8.75	66 F 338	11.37	10.23	9.66
0-25	66 F 345	66 F 355	9.70	8.73	8.25	66 F 325	66 F 305	10.29	9.26	8.75	66 F 335	11.37	10.23	9.66
0-50	66 F 346	66 F 356				66 F 326	66 F 306	10.29	9.26	8.75	66 F 336	11.37	10.23	9.66
0-75	.....	.....				66 F 327	66 F 307	11.86	10.67	10.08	66 F 337	12.94	11.65	11.00

AC MILLIAMMETERS

Range	231S 2 1/2" Rnd.	237S 2 1/2" Rect.	1 to 9 EACH	10 to 24, EACH	25 to 49, EACH	337S 3" Rect.	331S 3 1/2" Rnd.	1 to 9, EACH	10 to 24, EACH	25 to 49, EACH	430 4 1/2" Rect.	1 to 9, EACH	10 to 24, EACH	25 to 49, EACH
0-10	66 F 570	66 F 580				66 F 490	66 F 470				66 F 496			
0-15	66 F 571	66 F 581				66 F 491	66 F 471				66 F 496			
0-25	66 F 572	66 F 582	9.70	8.73	8.25	66 F 488	66 F 476	10.29	9.26	8.75	66 F 447	11.37	10.23	9.66
0-50	66 F 573	66 F 583				66 F 492	66 F 472				66 F 448			
0-100	66 F 574	66 F 584				66 F 493	66 F 473				66 F 497			
0-200	66 F 575	66 F 585	9.70	8.73	8.25	66 F 489	66 F 477	10.29	9.26	8.75	66 F 449	11.37	10.23	9.66
0-250	66 F 576	66 F 586				66 F 494	66 F 474				66 F 498			
0-500	66 F 577	66 F 587				66 F 495	66 F 475				66 F 499			

Triplett Glass-Front Panel Meters

DC VOLTMETERS

1000 OHMS PER VOLT—WITH CARBON, FILM-TYPE RESISTORS

Economical units. For use where high humidity is not encountered. †Have external resistors. Specify Range and Type No. when ordering.

Range	2 1/2" Rnd.	2 1/2" Rect.	1 to 9 EACH	10 to 24, EACH	25 to 49, EACH	327T 3" Rect.	321T 3 1/2" Rnd.	1 to 9, EACH	10 to 24, EACH	25 to 49, EACH	420 4 1/2" Rect.	1 to 9, EACH	10 to 24, EACH	25 to 49, EACH
0-10	66 F 903	66 F 923				66 F 943	66 F 963				66 F 983			
0-15	66 F 904	66 F 924	10.49	9.44	8.92	66 F 944	66 F 964	10.98	9.88	9.33	66 F 984	12.05	10.85	10.25
0-25	66 F 905	66 F 925				66 F 945	66 F 965				66 F 985			
0-50	66 F 906	66 F 926				66 F 946	66 F 966				66 F 986			
0-100	66 F 907	66 F 927				66 F 947	66 F 967				66 F 987			
0-150	66 F 908	66 F 928				66 F 948	66 F 968				66 F 988			
0-200	66 F 909	66 F 929	10.49	9.44	8.92	66 F 949	66 F 969	10.98	9.88	9.33	66 F 989	12.05	10.85	10.25
0-250	66 F 910	66 F 930				66 F 950	66 F 970				66 F 990			
0-300	66 F 911	66 F 931				66 F 951	66 F 971				66 F 991			
0-500	66 F 912†	66 F 932†	10.98	9.88	9.33	66 F 952	66 F 972	11.56	10.40	9.83	66 F 992	12.64	11.38	10.75
0-750	66 F 913†	66 F 933†				66 F 953	66 F 973				66 F 993			
0-1000	66 F 914†	66 F 934†				66 F 954†	66 F 974†				66 F 994†			
0-2000	66 F 915†	66 F 935†				66 F 955†	66 F 975†				66 F 995†			
0-3000	66 F 916†	66 F 936†	13.03	11.73	11.08	66 F 956†	66 F 976†	13.62	12.26	11.57	66 F 996†	14.70	13.23	12.49
0-4000	66 F 917†	66 F 937†				66 F 957†	66 F 977†				66 F 997†			
0-5000	66 F 918†	66 F 938†				66 F 958†	66 F 978†				66 F 998†			

1000 OHMS PER VOLT—WITH WIRE-WOUND MULTIPLIER RESISTORS

Have moisture-resistant, vacuum-sealed, wire-wound resistors. †Have external resistors. Specify Range and Type No. when ordering.

Range	2 1/2" Rnd.	2 1/2" Rect.	1 to 9, EACH	10 to 24, EACH	25 to 49, EACH	327T 3" Rect.	321T 3 1/2" Rnd.	1 to 9, EACH	10 to 24, EACH	25 to 49, EACH	420 4 1/2" Rect.	1 to 9, EACH	10 to 24, EACH	25 to 49, EACH
0-1	66 F 900	66 F 920				66 F 940	66 F 960				66 F 980			
0-3	66 F 739	66 F 750	10.49	9.44	8.92	66 F 762	66 F 742	10.98	9.88	9.33	66 F 770	12.05	10.85	10.25
0-5	66 F 740	66 F 751				66 F 763	66 F 743				66 F 771			
0-10	66 F 741	66 F 752				66 F 743	66 F 740				66 F 772			
0-25	66 F 743	66 F 754	12.84	11.55	10.92	66 F 765	66 F 747	13.33	12.00	11.33	66 F 773	14.41	12.97	12.25
0-50	66 F 744	66 F 755				66 F 766	66 F 748				66 F 774			
0-100	66 F 745	66 F 756	13.33	12.00	11.33	66 F 767	66 F 749	13.92	12.52	11.83	66 F 775	14.99	13.49	12.75
0-150	66 F 746	66 F 757				66 F 768	66 F 750				66 F 776			
0-300	66 F 748	66 F 759	16.27	14.64	13.83	66 F 770	66 F 752	16.86	15.17	14.33	66 F 777	17.93	16.14	15.25
0-500	66 F 749†	66 F 760†	18.23	16.41	15.49	66 F 771	66 F 753	18.72	16.85	15.92	66 F 778	19.80	17.82	16.83

AC VOLTMETERS

Range	2 1/2" Rnd.	2 1/2" Rect.	1 to 9, EACH	10 to 24, EACH	25 to 49, EACH	327T 3" Rect.	321T 3 1/2" Rnd.	1 to 9, EACH	10 to 24, EACH	25 to 49, EACH	420 4 1/2" Rect.	1 to 9, EACH	10 to 24, EACH	25 to 49, EACH
0-3	66 F 259	66 F 279				66 F 218	66 F 209				66 F 239			
0-5	66 F 250	66 F 270	9.70	8.73	8.25	66 F 220	66 F 200	10.29	9.26	8.75	66 F 230	11.37	10.23	9.66
0-10	66 F 251	66 F 271				66 F 221	66 F 201				66 F 231			
0-15	66 F 252	66 F 272				66 F 222	66 F 202				66 F 232			
0-25	66 F 253	66 F 273	9.70	8.73	8.25	66 F 223	66 F 203	10.29	9.26	8.75	66 F 233	11.37	10.23	9.66
0-50	66 F 254	66 F 274				66 F 224	66 F 204				66 F 234			
0-100	66 F 255	66 F 275				66 F 225	66 F 205				66 F 235			
0-150	66 F 256	66 F 276	10.68	9.61	9.08	66 F 226	66 F 206	11.17	10.05	9.50	66 F 236	12.25	11.02	10.41
0-250	66 F 257	66 F 277	11.17	10.05	9.50	66 F 227	66 F 207	11.76	10.58	10.00	66 F 237	12.84	11.55	10.92
0-300	66 F 258	66 F 278	11.76	10.58	10.00	66 F 228	66 F 208	12.25	11.02	10.41	66 F 238	13.33	12.00	11.33
0-500	66 F 259	66 F 279	13.85	12.63	13.08	66 F 229	66 F 209	15.97	14.38	13.58	66 F 239	17.05	15.35	14.49

VOLUME UNIT METERS

Highly damped volume unit meters for measurement of sound or noise levels. Used extensively for broadcast monitoring, in public address and communications systems, etc. Ballistic characteristics comply with standardized specifications of CBS, NBC and Bell Telephone Labs. All have Type "A" scale markings—calibrated from -20 to 3 VU on top arc and 0 to 100 (or percent modulation) on bottom arc. Internal impedance is 3900 ohms. Steady state reference is 1 milliwatt. Designed for use on 600 ohm lines. Metal dials have black and red calibrations. Bakelite cases. *Illuminated. †Portable in 3x3x1 1/2" bakelite case; has 18" cord, phone plug and jack.

327T 3" Rect.	1 to 9, EACH	10 to 24, EACH	25 to 49, EACH
66 F 075	18.72	16.85	15.92
66 F 076*	20.48	18.43	17.41
66 F 077†	22.54	20.29	19.16

420 4 1/2" Rect.	1 to 9, EACH	10 to 24, EACH	25 to 49, EACH
66 F 071	23.52	21.17	20.00
66 F 072*	26.75	24.07	22.75

DECIBEL METERS (+6 to -10 db)

Power level indicators. For measuring sound or noise level in broadcasting, public address and recording systems. Read up 6 and down 10 db. Have standard damping. Zero db is 1.73 volts. Calibrated for use with 500-ohm line. Reference level is 6 milliwatts. Internal resistance is 5000-ohms. Have zero adjustment. White enameled metal dial with black lettering. In black bakelite molded cases. *Illuminated.

327T 3" Rect.	1 to 9, EACH	10 to 24, EACH	25 to 49, EACH
66 F 263	14.99	13.49	12.75
66 F 264*	16.95	15.25	14.42

420 4 1/2" Rect.	1 to 9, EACH	10 to 24, EACH	25 to 49, EACH
66 F 265	16.76	15.08	14.25
66 F 266*	18.03	16.23	15.35

DC MILLIVOLTMETERS

Range	327T 3" Rect.	321T 3 1/2" Rnd.	1 to 9, EACH	10 to 24, EACH	25 to 49, EACH	420 4 1/2" Rect.	1 to 9, EACH	10 to 24, EACH	25 to 49, EACH
0-50	66 F 078	66 F 088	10.29	9.26	8.75	66 F 098	11.37	10.23	9.66
0-100	66 F 079	66 F 089				66 F 099			

ZERO-CENTER DC MICROAMMETERS

50-0-50	66 F 086	66 F 084	13.23	11.91	11.25	66 F 094	14.31	12.88	12.16
100-0-100	66 F 087	66 F 085	11.47	10.32	9.75	66 F 095	12.54	11.29	10.66

TYPE 361 WATTMETERS

For shop, field and laboratory. Use as appliance tester, wattmeter, voltmeter, ammeter, etc. Accuracy guaranteed within 2% for either DC or single-phase AC to 133 cps.

Stock No.	Watts	Volts	Amps	1-9, EACH	10-24, EACH	25-49, EACH
66 F 286	0-150	150	1			
66 F 285	0-300	150	2	23.52	21.17	20.00
66 F 287	0-750	150	5			

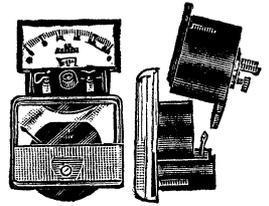
NEW TRIPLETT UNIMETERS

Versatile new Unimeters feature use of 2 Basic Movements with "slide-in" Dial Components for almost any type meter.

BASIC MOVEMENTS

MODEL 327-U. 0-1 DC MA BASIC MOVEMENT. Top-quality, 3 1/2" D'Arsonval movement—self-shielded and dustproof. Turning a single thumbscrew secures range insert.
87 F 336. NET.....10.78

MODEL 327-U. 0-50 DC UA BASIC MOVEMENT. Extremely sensitive movement. Similar to above but designed for use with "micro-range Dial Components below."
87 F 341. NET.....15.58



DIAL COMPONENT UNITS

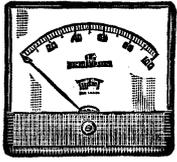
Expertly-designed voltmeter and ammeter ranges. Slide easily into basic movements above. 10-second assembly. Each has precise accuracy with required shunts, multipliers or rectifiers. Used with 0-1 DC ma Basic Movement except *(0-50 DC μ a movement).

No.	Range	Description	No.	Range	Description	No.	Range	Description
87 FF 337	0-1	DC MA	87 FF 337	0-500	DC MA	87 FF 339	0-25	DC Ammeter
87 FF 337	0-5	DC MA	87 FF 338	0-10	DCVM 1000 Ω/v	87 FF 339	0-50	DC Ammeter
87 FF 337	0-10	DC MA	87 FF 338	0-25	DCVM 1000 Ω/v	87 FF 340	0-10	ACVM
87 FF 337	0-15	DC MA	87 FF 338	0-50	DCVM 1000 Ω/v	87 FF 340	0-150	ACVM
87 FF 337	0-25	DC MA	87 FF 338	0-150	DCVM 1000 Ω/v	87 FF 340	0-300	ACVM
87 FF 337	0-50	DC MA	87 FF 338	0-300	DCVM 1000 Ω/v	87 FF 342	0-50	DC μ a*
87 FF 337	0-100	DC MA	87 FF 338	0-500	DCVM 1000 Ω/v	87 FF 342	0-100	DC μ a*
87 FF 337	0-150	DC MA	87 FF 339	0-1	DC Ammeter	87 FF 342	0-200	DC μ a*
87 FF 337	0-200	DC MA	87 FF 339	0-5	DC Ammeter	87 FF 342	0-500	DC μ a*
87 FF 337	0-250	DC MA	87 FF 339	0-10	DC Ammeter			
87 FF 337	0-300	DC MA	87 FF 339	0-15	DC Ammeter			

NET EACH.....2.45

Triplett Panel Meters

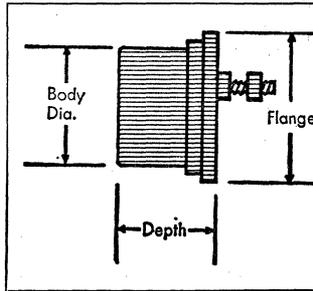
TYPE PL PLASTIC-FRONT PANEL METERS



4 1/2"
Rectangular,



2 1/2" and 3 1/2"
Round



METER DIMENSIONS

*Round †Rectangular

Mfr's Type	Flange	Body Dia.	Depth	Scale Length
221-PL	2 1/4"	2 1/4"	1 1/4"	2.197"
227-PL†	2 1/8 x 2 3/8"	2 3/8"	1 3/8"	2.197"
231-PL†	2 1/16"	2 1/8"	1 3/8"	1.92"
237-PL†	2 1/8 x 2 3/8"	2 3/8"	1 3/8"	1.92"
321-PL†	3 1/2"	2 3/4"	1 3/8"	3.11"
327-PL†	3 3/4 x 3 1/4"	2 3/4"	1 3/8"	3.11"
331-PL†	3 1/2"	2 3/4"	1 3/8"	2.65"
337-PL†	3 3/4 x 3 1/4"	2 3/4"	1 3/8"	2.65"
341-PL†	3 1/2"	2 3/4"	1 3/8"	3.11"
347-PL†	3 3/4 x 3 1/4"	2 3/4"	1 3/8"	3.11"
420-PL†	4 3/4 x 4 3/4"	3 3/4"	1 1/2"	4.14"
430-PL†	4 3/4 x 4 3/4"	3 3/4"	1 1/2"	3.6"
440-PL†	4 3/4 x 4 3/4"	3 3/4"	1 1/2"	4.14"

Advanced-design panel meters with wrap-around fronts of clear, unbreakable plastic. Have many advantages over conventional style panel meters. Full open dial provides much longer, more readable scale in same size case. Attractive design enhances appearance of test instruments and panels. All have stud mountings. Raised plastic "coverglass" allows full lighting from an extremely wide angle. White enamel finish metal faces with black scales and characters. Accuracy within $\pm 2\%$ on full scale. DC types have

D'Arsonval movements with extra-light moving coil. AC types have air-damped, iron-vane movements. All types have jewel bearings and highly polished pivots. Template provided with each meter for accurate cut-out. Spade-type pointers; molded zero adjusters; and ceramic stops. Av. shpg. wt., 1 1/2 lbs. Be sure to include Range and Model Number on all meter orders. For prices on Triplett meters not listed in the tables below, or prices on meters in quantities of 50 or more, write to our Industrial Division.

DC MICROAMMETERS

Range	221-PL 2 1/2" Rnd.			227-PL 2 1/2" Rct.			321-PL 3 1/2" Rnd.			327-PL 3 3/4" Rct.			420-PL 4 1/2" Rct.			
	1-9	10-24	25-49	1-9	10-24	25-49	1-9	10-24	25-49	1-9	10-24	25-49	1-9	10-24	25-49	
0-50	66 F 807	15.09	13.58	12.83	66 F 809	15.09	13.58	12.83	66 F 836	5.58	4.02	13.24	66 F 873	15.58	14.02	13.24
0-100	66 F 808	13.23	11.91	11.25	66 F 810	13.23	11.91	11.25	66 F 837	3.72	2.35	11.66	66 F 876	13.72	12.35	11.66
0-200	66 F 737	11.37	10.23	9.66	66 F 738	11.37	10.23	9.66	66 F 838	11.96	10.76	10.16	66 F 877	11.96	10.76	10.16

DC MILLIAMMETERS

Range	221-PL 2 1/2" Rnd.			227-PL 2 1/2" Rct.			321-PL 3 1/2" Rnd.			327-PL 3 3/4" Rct.			420-PL 4 1/2" Rct.			
	1-9	10-24	25-49	1-9	10-24	25-49	1-9	10-24	25-49	1-9	10-24	25-49	1-9	10-24	25-49	
0-1	66 F 812	10.19	9.17	8.66	66 F 814	10.19	9.17	8.66	66 F 843	10.78	9.70	9.16	66 F 793	10.78	9.70	9.16
0-50	66 F 813	10.58	9.53	9.00	66 F 815	10.58	9.53	9.00	66 F 844	11.17	10.05	9.50	66 F 794	11.17	10.05	9.50
0-100	66 F 824	10.58	9.53	9.00	66 F 551	10.58	9.53	9.00	66 F 845	11.17	10.05	9.50	66 F 795	11.17	10.05	9.50
0-200	66 F 827	10.58	9.53	9.00	66 F 552	10.58	9.53	9.00	66 F 846	11.17	10.05	9.50	66 F 796	11.17	10.05	9.50
0-300	66 F 839	10.58	9.53	9.00	66 F 553	10.58	9.53	9.00	66 F 847	11.17	10.05	9.50	66 F 797	11.17	10.05	9.50
0-500	66 F 849	10.58	9.53	9.00	66 F 554	10.58	9.53	9.00	66 F 848	11.17	10.05	9.50	66 F 798	11.17	10.05	9.50

AC VOLTMETERS

Range	231-PL 2 1/2" Rnd.			237-PL 2 1/2" Rct.			331-PL 3 1/2" Rnd.			337-PL 3 3/4" Rct.			430-PL 4 1/2" Rct.			
	1-9	10-24	25-49	1-9	10-24	25-49	1-9	10-24	25-49	1-9	10-24	25-49	1-9	10-24	25-49	
0-50	66 F 825	11.17	10.05	9.50	66 F 826	11.17	10.05	9.50	66 F 859	10.78	9.70	9.16	66 F 780	10.78	9.70	9.16
0-150									66 F 860	11.66	10.50	9.91	66 F 781	11.66	10.50	9.91
0-300									66 F 861	12.74	11.47	10.83	66 F 782	12.74	11.47	10.83

AC AMMETERS

Range	231-PL 2 1/2" Rnd.			237-PL 2 1/2" Rct.			331-PL 3 1/2" Rnd.			337-PL 3 3/4" Rct.			430-PL 4 1/2" Rct.			
	1-9	10-24	25-49	1-9	10-24	25-49	1-9	10-24	25-49	1-9	10-24	25-49	1-9	10-24	25-49	
0-5	66 F 828				66 F 784				66 F 865				66 F 787			66 F 892
0-10	66 F 829				66 F 783				66 F 866				66 F 788			66 F 893
0-25	66 F 833	10.19	9.17	8.66	66 F 786	10.19	9.17	8.66	66 F 867	10.78	9.70	9.16	66 F 789	10.78	9.70	9.16
0-30	66 F 835				66 F 792				66 F 868				66 F 790			66 F 862
0-50	66 F 832				66 F 785				66 F 869				66 F 791			66 F 896

DC AMMETERS

Range	221-PL 2 1/2" Rnd.			227-PL 2 1/2" Rct.			321-PL 3 1/2" Rnd.			327-PL 3 3/4" Rct.			420-PL 4 1/2" Rct.			
	1-9	10-24	25-49	1-9	10-24	25-49	1-9	10-24	25-49	1-9	10-24	25-49	1-9	10-24	25-49	
0-5	66 F 822	10.98	9.88	9.33	66 F 830	10.98	9.88	9.33	66 F 855	11.47	10.32	9.75	66 F 880	11.47	10.32	9.75
0-10	66 F 823	10.98	9.88	9.33					66 F 856				66 F 881			66 F 885
0-50									66 F 857				66 F 882			66 F 886

AC MILLIAMMETERS

Range	331-PL 3 1/2" Rnd.			337-PL 3 3/4" Rct.			430-PL 4 1/2" Rct.					
	1-9	10-24	25-49	1-9	10-24	25-49	1-9	10-24	25-49			
0-100	66 F 863	10.78	9.70	9.16	66 F 864	10.78	9.70	9.16	66 F 854	11.37	10.23	9.66

DC VOLTMETERS

1000 OHMS PER VOLT—FILM-TYPE MULTIPLIER RESISTORS

Range	221-PL 2 1/2" Rnd.			227-PL 2 1/2" Rct.			321-PL 3 1/2" Rnd.			327-PL 3 3/4" Rct.			420-PL 4 1/2" Rct.			
	1-9	10-24	25-49	1-9	10-24	25-49	1-9	10-24	25-49	1-9	10-24	25-49	1-9	10-24	25-49	
0-50	66 F 804	10.98	9.88	9.33	66 F 805	10.98	9.88	9.33	66 F 834	11.47	10.32	9.75	66 F 806	11.47	10.32	9.75

DB METER

Decibel meter. 6 milliwatts. 5% accuracy. Has internal resistance of 5000 ohms. 1.73 volts at zero db. 3 1/2" round.

Stock No.	Type	Range	Calibration	NET EACH		
				1-9	10-24	25-49
66 F 811	321-PL	+6 to -10db	for 500 ohm line	15.68	14.11	13.33

VOLUME UNIT METER ("A" SCALE)

Volume unit meter. 3900 ohms impedance. Steady state reference, 1 milliwatt. For 600-ohm line. Also has 0-100% scale.

Stock No.	Type	Description	Range	NET EACH		
				1-9	10-24	25-49
66 F 897	321-PL	3 1/2" Round	-20 to +3	19.31	17.38	16.41

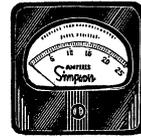
THERMO-AMMETERS (RF)

Range	341-PL 3 1/2" Rnd.			347-PL 3 3/4" Rct.			440-PL 4 1/2" Rct.					
	1-9	10-24	25-49	1-9	10-24	25-49	1-9	10-24	25-49			
0-5	66 F 818	11.86	10.67	10.08	66 F 817	11.86	10.67	10.08	66 F 819	12.45	11.20	10.58

Simpson Rectangular Panel Meters

Superior-quality panel meters. Models 27, 29, 37, 39, 47, 49 and 142 have D'Arsonval movements. Models 57 and 59 have iron-vane movements. Housed in black molded bakelite cases; have recessed zero adjustments. Scale arc is 100°. ±2% accuracy, except rectifier-type ±5%. With mounting hardware and template. Shpg. wt., 1 lb. *Include Range and Model No. on all orders.*

METER DIMENSIONS				
Model	Flange	Body Dia.	Body Depth	Scale
27	3.12x3.00"	2.75"	1.36"	2.56"
29	4.20x4.66"	2.75"	1.00"	3.91"
37	3.12x3.00"	2.75"	1.36"	2.56"
39	4.20x4.66"	2.75"	1.00"	3.91"
47	3.12x3.00"	2.75"	1.36"	2.56"
49	4.20x4.66"	2.75"	1.00"	3.91"
57	3.12x3.00"	2.75"	1.45"	2.56"
59	4.20x4.66"	2.75"	1.09"	3.91"
79	4.20x4.66"	2.00"	1.68"	3.91"
142	3.94x4.25"	3.25"	1.00"	3.50"



3 1/2"
Rectangular



4 1/2"
Rectangular

DC MILLIAMMETERS

Model 27				Model 29				
Stock No.	NET EACH			Range	Stock No.	NET EACH		
	1-9	10-24	25-Up			1-9	10-24	25-Up
67 F 520				0-1	67 F 420			
68 F 800				0-3	68 F 801			
67 F 521	10.44	9.40	8.87	0-5	67 F 421	11.61	10.46	9.87
67 F 522				0-10	67 F 422			
67 F 530				0-15	67 F 430			
67 F 523				0-25	67 F 423			
67 F 534	10.73	9.66	9.12	0-50	67 F 424	12.20	10.99	10.37
67 F 531				0-75	67 F 431			
67 F 525				0-100	67 F 425			
67 F 532				0-150	67 F 432			
67 F 526	10.73	9.66	9.12	0-200	67 F 426	12.20	10.99	10.37
67 F 533				0-250	67 F 433			
67 F 527				0-300	67 F 427			
67 F 528	10.73	9.66	9.12	0-500	67 F 428	12.20	10.99	10.37
67 F 529				0-1000	67 F 429			

DC VOLTMETERS

*Have external multiplier resistors. 3 to 300 v. units are 1000 ohms per volt, 500 to 5000 v. units are 2000 ohms per volt.

Model 27				Model 29				
Stock No.	NET EACH			Range	Stock No.	NET EACH		
	1-9	10-24	25-Up			1-9	10-24	25-Up
67 F 515				0-3	67 F 415			
67 F 516				0-5	67 F 416	12.35	11.11	10.50
67 F 500	11.17	10.05	9.50	0-10	67 F 402			
67 F 501				0-15	67 F 403			
67 F 502	11.17	10.05	9.50	0-25	67 F 417	12.35	11.11	10.50
67 F 518				0-50	67 F 418			
67 F 507				0-100	67 F 405			
67 F 504				0-150	67 F 406			
67 F 519	11.17	10.05	9.50	0-200	67 F 419	12.35	11.11	10.50
67 F 505				0-250	67 F 407			
67 F 508				0-300	67 F 408			
67 F 509	11.76	10.58	10.00	0-500	67 F 409	12.79	11.51	10.87
67 F 510				*0-1000	67 F 410			
67 F 511				*0-1500	67 F 411			
67 F 514	13.96	12.57	11.87	*0-2000	67 F 412	15.14	13.63	12.87
67 F 512				*0-3000	67 F 413			
67 F 513				*0-5000	67 F 414			

DC AMMETERS

Model 27				Model 29				
Stock No.	NET EACH			Range	Stock No.	NET EACH		
	1-9	10-24	25-Up			1-9	10-24	25-Up
67 F 535				0-1	67 F 435			
67 F 536				0-2	67 F 436			
67 F 537	10.58	9.53	9.00	0-3	67 F 437	11.76	10.58	10.00
67 F 538				0-5	67 F 438			
67 F 539				0-10	67 F 439			
67 F 540				0-25	67 F 440			
67 F 542	10.58	9.53	9.00	0-50	67 F 442	11.76	10.58	10.00
68 F 802				0-75	68 F 805			
68 F 803				0-100	68 F 806			
68 F 804				0-150	68 F 807			

DC MICROAMMETERS

Model 27				Model 29				
Stock No.	NET EACH			Range	Stock No.	NET EACH		
	1-9	10-24	25-Up			1-9	10-24	25-Up
68 F 808	20.58	18.52	17.49	0-15	68 F 809	22.49	20.24	19.12
67 F 544	18.23	16.41	15.49	0-25	67 F 444	18.23	17.25	16.25
67 F 545	15.43	13.90	13.12	0-50	67 F 445	16.76	15.08	14.25
67 F 546	13.52	12.17	11.50	0-100	67 F 446	15.14	13.63	12.87
67 F 547	11.61	10.46	9.87	0-200	67 F 447	12.94	11.64	11.00
67 F 548	11.02	9.93	9.37	0-500	67 F 448	12.35	11.11	10.50
67 F 684	15.58	14.02	13.25	25-0-25	67 F 691	16.90	15.22	14.37
67 F 685	13.67	12.31	11.62	50-0-50	67 F 692	15.29	13.76	13.00
67 F 686	11.76	10.58	10.00	100-0-100	67 F 693	13.23	11.91	11.25
67 F 687	10.58	9.53	9.00	500-0-500	67 F 694	11.76	10.58	10.00

MODEL 27 DC GALVANOMETERS

500-0-500 Microamp. Provides a highly accurate indication of the magnitude of small currents. Calibrated 50-0-50. Approximate internal resistance is 46 ohms. Outside dimensions and scale length listed at the top of the page. Shpg. wt., 1 lb.

67 F 591. 1-9, NET EACH.....10.58
10-24, EACH.....9.53 25-Up, EACH.....9.00

75-0-75 Microamp. Same as above, except 75-0-75 microampere range, 2000-ohm approximate internal resistance. Shpg. wt., 1 lb.

67 F 592. 1-9, NET EACH.....12.49
10-24, EACH.....11.24 25-Up, EACH.....10.62

AC MILLIAMMETERS

Model 57				Model 59				
Stock No.	NET EACH			Range	Stock No.	NET EACH		
	1-9	10-24	25-Up			1-9	10-24	25-Up
67 F 565				0-50	67 F 465			
67 F 566	10.14	9.13	8.62	0-100	67 F 466	11.91	10.72	10.12
67 F 567				0-250	67 F 467			
67 F 568				0-500	67 F 468			

AC VOLTMETERS

Model 57				Model 59				
Stock No.	NET EACH			Range	Stock No.	NET EACH		
	1-9	10-24	25-Up			1-9	10-24	25-Up
67 F 558				0-1.5	67 F 458			
67 F 550	10.14	9.13	8.62	0-3	67 F 450	11.76	10.58	10.00
67 F 551				0-5	67 F 459			
67 F 559				0-10	67 F 451			
67 F 552	10.14	9.13	8.62	0-15	67 F 452	11.76	10.58	10.00
67 F 560	10.44	9.40	8.87	0-25	67 F 460			
67 F 553	10.44	9.40	8.87	0-50	67 F 453			
67 F 555	11.32	10.20	9.62	0-150	67 F 455	12.35	11.11	10.50
67 F 561	11.32	10.20	9.62	0-250	67 F 461	12.35	11.11	10.50
67 F 564	11.32	10.20	9.62	0-300	67 F 456	12.35	11.11	10.50
67 F 557	16.02	14.43	13.62	0-500	67 F 457	17.20	15.48	14.60

AC AMMETERS

Model 57				Model 59				
Stock No.	NET EACH			Range	Stock No.	NET EACH		
	1-9	10-24	25-Up			1-9	10-24	25-Up
67 F 575				0-1	67 F 475			
67 F 577	10.00	9.00	8.50	0-3	67 F 477	11.91	10.72	10.12
67 F 578				0-5	67 F 478			
67 F 579				0-10	67 F 479			
67 F 582	10.00	9.00	8.50	0-15	67 F 482	11.91	10.72	10.12
67 F 580	10.29	9.26	8.76	0-25	67 F 480	12.49	11.25	10.52
67 F 581	11.17	10.05	9.50	0-50	67 F 481	14.55	13.10	12.37
68 F 810	10.00	9.00	8.50	0-75	68 F 811	11.91	10.72	10.12

RF AMMETERS (INTERNAL THERMO-COUPLE TYPE)

Model 37				Model 39				
Stock No.	NET EACH			Range	Stock No.	NET EACH		
	1-9	10-24	25-Up			1-9	10-24	25-Up
67 F 585				0-1	67 F 485			
67 F 586				0-1.5	67 F 486			
67 F 587	12.49	11.25	10.62	0-2	67 F 487	15.14	13.63	12.87
67 F 588				0-3	67 F 488			
67 F 589				0-5	67 F 489			

RECTIFIER-TYPE AC VOLTMETERS—1000 OHMS PER VOLT

Model 47				Model 49				
Stock No.	NET EACH			Range	Stock No.	NET EACH		
	1-9	10-24	25-Up			1-9	10-24	25-Up
67 F 569				0-1	67 F 490			
67 F 570	15.29	13.76	13.00	0-5	67 F 491	16.90	15.22	14.37
67 F 571				0-10	67 F 492			
67 F 572				0-15	67 F 493			
67 F 573				0-50	67 F 494			
67 F 583	15.29	13.76	13.00	0-150	67 F 496	16.90	15.22	14.37
67 F 584				0-300	67 F 497			

VU METERS

Volume unit meters for power amplifiers and broadcast equipment. Scales show level both in VU and percentage modulation. D'Arsonval movement. Highly damped. Accuracy, ±5%. Dials have 100% arc. VU scale A, -20 to +3. 3900 ohm internal impedance across 600-ohm lines (zero reference, 1 milliwatt). *Illuminated type (2 1/2" deep). Av. shpg. wt., 1 1/4 lbs.

Stock No.	Model	NET EACH		
		1-9	10-24	25-Up
67 F 597	47	18.82	16.93	16.00
67 F 598	142	20.00	18.00	17.00
67 F 599	142*	22.93	20.64	19.49

MODEL 79 WATTMETERS

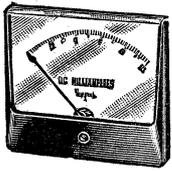
Self-contained, dynamometer-type meters for measurement of DC and single-phase AC power to 250 cps. Can be used with power factors below 50% if maximum ratings are observed. Particularly useful in appliance, heating and air-conditioning servicing. Dimensions and scale length listed at top of page. Shpg. wt., 1 lb.

Stock No.	Range, Watts	Max. Amps	Max. Volts	NET EACH		
				1-9	10-24	25-Up

Simpson Panel Meters & Instruments

"WIDE-VUE" PANEL METERS

- Ultra-Modern Styling
- Wide-Angle Readability
- Longer Meter Scales



Precision-built "Wide-Vue" panel meters. Have durable, open-faced plastic cover for wide-angle readability and maximum protection to the meter face. Feature longer scales than conventional-type meters— $3\frac{1}{2}$ " "Wide-Vue" meter scale is over $\frac{1}{2}$ " longer than standard $3\frac{1}{2}$ " meter scale. All DC meters

except 0-25, 0-50 DC microammeters have "self-shielded" core magnet meter movement. This movement is not affected by steel panels or proximity to magnetic fields. 0-25, 0-50 DC microammeters have external magnet type movement; AC meters have moving-vane type movement. Both calibrated for non-magnetic panels. $3\frac{1}{2}$ " meters have $3\frac{3}{4}$ " scale; $4\frac{1}{2}$ " meters have $3\frac{1}{2}$ " scale. Polished and shock-mounted jewels. Size of $3\frac{1}{2}$ " meters: $3\frac{1}{4}$ " square flange; body diameter, $2\frac{3}{4}$ "; body depth, $1\frac{1}{4}$ ". Size of $4\frac{1}{2}$ " meters: flange, 4" high, $4\frac{1}{8}$ " wide; body diameter, $2\frac{3}{4}$ "; body depth, $1\frac{1}{4}$ ". Accuracy $\pm 2\%$. With mounting hardware and template. Av. shpg. wt., 1 lb.

DC VOLTMETERS

Model 1327— $3\frac{1}{2}$ "				Model 1329— $4\frac{1}{2}$ "				
Stock No.	NET EACH			Range	Stock No.	NET EACH		
	1-9	10-24	25-Up			1-9	10-24	25-Up
68 F 149				0-10	68 F 157			
68 F 150	11.76	10.58	10.00	0-15	68 F 158	12.94	11.64	11.00
68 F 151				0-50	68 F 159			
68 F 152				0-100	68 F 160			
68 F 153	11.76	10.58	10.00	0-150	68 F 161	12.94	11.64	11.00
68 F 155				0-300	68 F 163			

DC MILLIAMMETERS

68 F 181	1.02	9.93	9.37	0-1	68 F 186	11.76	10.58	10.00
68 F 182	1.02	9.93	9.37	0-10	68 F 187	11.76	10.58	10.00
68 F 183	1.32	10.20	9.62	0-50	68 F 188	12.35	11.11	10.50
68 F 184	1.32	10.20	9.62	0-100	68 F 189	12.35	11.11	10.50
68 F 185	1.32	10.20	9.62	0-150	68 F 190	12.35	11.11	10.50

DC AMMETERS

68 F 165				0-1 DC	68 F 173			
68 F 166				0-5 DC	68 F 174			
68 F 168	11.17	10.00	9.50	0-10DC	68 F 176	12.35	11.11	10.50
68 F 170				0-15DC	68 F 178			
68 F 171				0-25DC	68 F 179			

DC MICROAMMETERS

68 F 191	18.23	16.41	15.49	0-25	68 F 195	20.29	18.26	17.25
68 F 192	15.43	13.90	13.12	0-50	68 F 196	16.76	15.08	14.25
68 F 193	14.11	12.70	12.00	0-100	68 F 197	15.73	14.16	13.37
68 F 194	14.26	12.84	12.12	50-0-50	68 F 198	15.88	14.29	13.49

AC VOLTMETERS

Model 1357— $3\frac{1}{2}$ "				Model 1359— $4\frac{1}{2}$ "				
Stock No.	NET EACH			Range	Stock No.	NET EACH		
	1-9	10-24	25-Up			1-9	10-24	25-Up
68 F 154				0-150	68 F 162			
68 F 156	11.91	10.72	10.12	0-300	68 F 164	12.94	11.64	11.00

AC AMMETERS

68 F 167	10.58	9.53	9.00	0-5	68 F 175	12.49	11.25	10.62
68 F 169	10.58	9.53	9.00	0-10	68 F 177	12.49	11.25	10.62
68 F 172	11.76	10.58	10.00	0-50	68 F 180	15.14	13.63	12.87

EDGEWISE PANEL METERS



Newly developed edgewise type panel meters for use where space is limited. Require only 50% of the panel area of a conventional $2\frac{1}{2}$ " meter, but have the same scale length. If meters are mounted one above the other, quick,

accurate comparative readings may be taken. When meters should have approximately the same indication, the meter showing a major deviation will quickly show up. Also feature "self-shielded" core magnet meter movement—calibration remains unaffected by stray magnetic fields. Scale length, $1\frac{7}{8}$ ". Accuracy: $\pm 2\%$ of full scale. DC voltmeters have 1000 ohms/volt sensitivity. Dustproof, molded lucite case is $1\frac{3}{8} \times 2\frac{1}{2} \times 3\frac{1}{2}$ ". Requires only $1\frac{1}{16} \times 2\frac{1}{8}$ " cut-out for rear mounting. All have solder lug terminals except 0-5, 0-10 DC ammeters which have stud-type terminals. White meter face with black numerals. With all mounting hardware. Av. shpg. wt., $\frac{3}{4}$ lb.

Stock No.	Mfr's Type	Range	NET EACH		
			1-9	10-24	25-49
67 F 677	1502	0-50 DC Voltmeter	12.35	11.11	10.50
67 F 678	1502	0-150 DC Voltmeter	12.35	11.11	10.50
67 F 679	1502	0-500 DC Voltmeter	12.49	11.25	10.62
67 F 681	1502	0-5 DC Ammeter	13.08	11.77	11.12
67 F 682	1502	0-10 DC Ammeter	13.08	11.77	11.12
67 F 683	1502	0-1 DC Milliammeter	12.79	11.51	10.87
67 F 688	1502	0-10 DC Milliammeter	12.79	11.51	10.87
67 F 689	1502	0-100 DC Milliammeter	12.79	11.51	10.87
67 F 690	1502	0-500 DC Milliammeter	12.79	11.51	10.87
67 F 695	1502	0-50 DC Microammeter	17.79	16.01	15.12
67 F 696	1502	0-100 DC Microammeter	15.73	14.16	13.38
67 F 697	1507	VU Meter "A" Scale	22.64	20.38	19.25
67 F 698	1507	VU Meter "B" Scale	22.64	20.38	19.25

LABORATORY TYPE INSTRUMENTS

MODEL 9 PORTABLE DC LAB UNITS



Precision portable laboratory instruments. Meet practically every demand for highly-accurate laboratory and industrial measurement. Provide a high degree of accuracy plus the stamina to maintain that accuracy. With large $4\frac{1}{2}$ " mirrored, hand-drawn scale; knife-edge pointer. D'Arsonval movement is accurate to within $\pm 0.5\%$ of full scale. Cases formed of durable, heavy molded black bakelite. With strap for easy carrying. Binding post terminals. Zero adjustment. Less leads. Size, $7 \times 5\frac{1}{4} \times 3\frac{1}{8}$ ". Shpg. wt., 6 lbs.

Model 9 Triple-Range Voltmeter. For 0-15-150-300 volts DC.
87 F 136. NET.....62.47

Model 9 Triple-Range Voltmeter. For 0-150-300-600 volts DC.
87 F 137. NET.....64.68

Model 9 Milliammeter. For measuring 0-1 ma. DC.
87 F 138. NET.....56.01

Model 9 Double-Range Milliammeter. For 0-10-100 ma. DC.
87 F 139. NET.....53.90

Model 9 Triple-Range Ammeter. For 0-2.5-10-25 A DC.
87 F 140. NET.....59.24

MODEL 10 PORTABLE AC LAB UNITS

These precision-engineered instruments have the same deluxe features as the above Model 9 units, but have moving iron-vane movements for a high degree of overload protection and accuracy coupled with maximum ruggedness of mechanical design. Accuracy, $\pm 1\%$ of full scale. Shpg. wt., 6 lbs.

Model 10 Triple-Range Voltmeter. For 0-150-300-600 v. AC.
87 F 141. NET.....59.24

Model 10 Ammeter. For 0-30 amperes AC.
87 F 142. NET.....43.07

MODEL 880 DYNAMOMETER UNITS

These reliable instruments offer the same extra features as the above Models 9 and 10, but with dynamometer movements for AC-DC operation. Calibration accuracy of $\pm 1\%$ at DC and frequencies from 25-125 cps. Size, $7 \times 5\frac{1}{4} \times 3\frac{1}{8}$ ". Shpg. wt., 6 lbs.

Model 880 Double-Current Range Wattmeter. Ranges: 0-500-1000-2000 watts AC-DC. For use with 150 or 300 volts maximum; normal, continuous-duty current ranges: 5 amps (7.5 amps peak) and 10 amps (15 amps peak). All normal and maximum ranges clearly marked on range selector switch and on dial face for added safety. Dial scale is calibrated in watts.
87 F 143. NET.....75.41

Model 880 Triple-Range Voltmeter. For 0-75-150-300 v. AC-DC.
87 F 144. NET.....75.41

Model 880 Triple-Range Voltmeter. For 0-150-300-600 v. AC-DC.
87 F 145. NET.....75.41

57ET ELAPSED TIME METERS



120-Volt Type. Elapsed time panel meters for keeping life and performance records based on operating time. Self-starting synchronous clock motor. Counter indicates up to 9999.9 hours, then recycles to 0. Matches Simpson standard $3\frac{1}{2}$ " meters exactly in panel appearance. Flange size, $3\frac{1}{8} \times 3\frac{3}{8}$ "; body diameter, $2\frac{3}{4}$ "; body depth, $2\frac{1}{8}$ ". For 120 v., 60 cycle AC. Shpg. wt., 2 lbs.

87 F 146. NET.....16.61

240-Volt Type. As above, but for 240 v., 60 cycle AC.
87 F 147. NET.....16.90

INTERNATIONAL RECTIFIER "ZENIAC" ZENER DIODE SUBSTITUTION BOX



- Quick, Easy Selection
- Any One of 11 Basic Zener Diodes
- Costs Little More Than Diodes Alone

New silicon zener voltage-regulator diode substitution box. Uses time-proven decade-type substitution box principle for rapid, accurate substitution of a wide range of zener diodes. Enables the design engineer to quickly determine the exact diode for experimental, "breadboard" circuits. Offers a selection of any one of eleven basic zener diode types, ranging from the 1N1518 (rated from 3.6 to 4.3 volts) to the

1N1528 (rated from 24-30 volts). Power dissipation, 1 watt. 11-position rotary switch; 5-way instrument binding posts. Size, $6 \times 3\frac{1}{2} \times 2\frac{1}{4}$ ". Shpg. wt., $\frac{1}{2}$ lbs.
87 F 148. NET.....115.50

Panel Meters and Accessories

VOLTAGE AND BATTERY TESTERS

EMICO AC VOLTAGE TESTER

Handy, low-cost, AC line-voltage tester. Gives accurate, instantaneous check at receptacle. Has 2-prong male plug to fit conventional outlets—no test leads are required. Features 90° swivel head for easier reading at angle. Range: 0-150 volts. Scale has 5-volt graduations between 50 and 150 volts. Meter size: 2". Damped movement. Overall accuracy: 5% of full scale. Black metal case. Shpg. wt., 8 oz.



67 F 626. NET.....2.94

EMICO HEARING AID BATTERY TESTER

2" DC voltmeter. Designed to check hearing aid batteries. Separate ranges for "A" and "B" types assure reliable, accurate readings. "A" scale reads 0-2 volts in .1-volt divisions; "B" scale reads 0-50 volts in 2-volt divisions. Metal case. Will not drain batteries. Supplied with test leads. Shpg. wt., 8 oz.



67 F 627. NET.....2.94

STERLING BATTERY TESTERS

Pocket size battery testers in sturdy, watch-type nickel-finished cases. For checking hearing aid batteries, "B" batteries, dry cells, etc. White dial face, 2 1/4" dia., 5/8" thick. Av. shpg. wt., 6 oz.



TYPE 31A HEARING AID BATTERY TESTER. Tests 2 1/2, 30 or 45-v. "B" and 1 1/2-v. "A" batteries. Scales: 0-50 v., 0-2 v. With plug and leads. 78 F 031. NET.....2.50

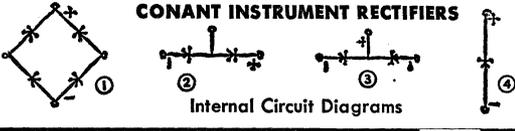
FOR PORTABLE BATTERIES

TYPE 37A. 0-2-50 volts.
78 F 024. NET.....2.20
TYPE 38A. 0-2-100 volts.
78 F 025. NET.....2.35
TYPE 39A. 0-2-150 volts.
78 F 026. NET.....2.35
TYPE 40A. 0-10-150 volts.
78 F 027. NET.....2.50

FOR DRY CELL BATTERIES

TYPE 24. Meter scale: 0-35 amperes.
78 F 028. NET.....1.79
TYPE 34C. Meter scale: 0-50 volts.
78 F 029. NET.....2.09
TYPE 45. Meter scales: 0-35 amperes and 0-50 volts.
78 F 030. NET.....2.77

CONANT INSTRUMENT RECTIFIERS



Copper-oxide rectifiers for relay and meter circuits and replacement purposes. Easy to select correct replacement—body color indicates circuit type. Maximum AC input, all units, 5 volts. Series 500: For up to 100 ma max. Reverse voltage: 2.25 DC. Frequency response: 0-1 mc. Diameter, .500" with .166" center hole. 0.038" thick. Copper oxide with 24K gold contacts. 3" lead wires. Phillips head 6-32 mounting stud. Synthetic lacquer-enamel finish. Series 160: For up to 10 ma max. Reverse voltage: 2.25 DC. Frequency response: 0.75 mc. Diameter: 0.166"; .038" thick. Copper-oxide with 24K gold contacts. Have 3" lead wires. Two holes for No. 2 mounting screw. Sealed in housing with polystyrene base; moisture-proofed. Series 160-C: Same as Series 160 except stack is housed in welded brass case. Has convenient, clip-type mount. Synthetic lacquer finish. Av. shpg. wt., 5 oz.

Stock No.	Type	Series	Body Color	Internal Circuit	No. of Terms.	Forward DC MA	Av. Output DC MA	NET EACH
68 F 041	M	500	Yellow	1	4	60	10	2.06
68 F 043	HS	500	Black	2	3	60	100	1.50
68 F 047	T	500	Red	3	3	60	50	1.50
68 F 042	H	500	Green	4	2	60	50	1.18
68 F 040	B	160	Yellow	1	4	10	10	2.06
68 F 044	BHS	160	Black	2	3	10	5	1.50
68 F 046	BT	160	Red	3	3	10	5	1.50
68 F 037	BH	160	Green	4	2	10	5	1.18
68 F 038	B-C	160-C	Yellow	1	4	10	10	2.06
68 F 045	BHS-C	160-C	Black	2	3	10	5	1.50
68 F 048	BT-C	160-C	Red	3	3	10	5	1.50
68 F 049	BH-C	160-C	Green	4	2	10	5	1.18

INSTRUMENT RECTIFIERS. Booklet by H. B. Conant. Includes graphs, curves, plus other helpful data.
37 K 170. Postpaid in U.S.A.....15c

RADIOACTIVE MATERIAL

Radioactive source for testing radioactivity detectors. Detection unit will give a positive indication if it is operating correctly. Radioactivity is at a perfectly safe level. Excellent for classroom use. Embedded in plastic disc, 2" in diameter. Shpg. wt., 3 oz.
77 P 069. NET.....69c

EMICO PANEL METERS

Sturdy panel meters. Black enamel steel cases. Have screw terminal binding posts and lugs for soldered connections. Model NF-2C (round); flange, 2 1/4"; overall depth, 1 1/4". Model RF-2C (square); flange, 2 1/4"; overall depth, 1 3/16". With mtg. bracket. Both types mount in 2 1/16" hole. 5% accuracy. Av. shpg. wt., 9 oz.



NF-2C



RF-2C

DC MILLIAMMETERS

Model NF-2C					Model RF-2C				
Ma	Stock No.	1-24, EA.	25-49, EA.	50-99, EA.	Stock No.	1-24, EA.	25-49, EA.	50-99, EA.	100-99, EA.
0-1	67 F 609	3.53	3.18	3.00	67 F 614	3.58	3.22	3.04	
0-10	67 F 608	2.06	1.85	1.75	67 F 615	2.11	1.89	1.79	
0-20	67 F 601		1.71	1.54	1.46	67 F 616	1.81	1.63	1.54
0-30	67 F 602				67 F 617				
0-50	67 F 603				67 F 618				
0-100	67 F 604				67 F 619				
0-150	67 F 605				67 F 620				
0-200	67 F 606		1.71	1.54	1.46	67 F 621	1.81	1.63	1.54
0-300	67 F 607				67 F 622				
0-500	67 F 608				67 F 623				

DC AMMETERS

Amps.	Stock No.	1-24, EA.	25-49, EA.	50-99, EA.	Stock No.	1-24, EA.	25-49, EA.	50-99, EA.	100-99, EA.
0-10	67 F 650				67 F 656				
0-30	67 F 651	1.71	1.54	1.46	67 F 657	1.81	1.63	1.54	
0-20-20	67 F 652				67 F 658				
30-0-30	67 F 653				67 F 659				

AC VOLTMETERS

Volts	Stock No.	1-24, EA.	25-49, EA.	50-99, EA.	Stock No.	1-24, EA.	25-49, EA.	50-99, EA.
0-15	67 F 665	2.84	2.56	2.42	67 F 670	2.94	2.65	2.50
0-150	67 F 666	3.43	3.09	2.92	67 F 671	3.53	3.18	3.00
0-300	67 F 667	4.02	3.62	3.42	67 F 672	4.07	3.66	3.46

DC VOLTMETERS

Volts	Stock No.	1-24, EA.	25-49, EA.	50-99, EA.	Stock No.	1-24, EA.	25-49, EA.	50-99, EA.
0-3	67 F 630				67 F 635			
3-0-3	67 F 631	1.71	1.54	1.46	67 F 636	1.81	1.63	1.54
0-10	67 F 632				67 F 637			

AC AMMETERS

Amps.	Stock No.	1-24, EA.	25-49, EA.	50-99, EA.	Stock No.	1-24, EA.	25-49, EA.	50-99, EA.
0-5	67 F 646				67 F 648			
0-10	67 F 647	2.84	2.56	2.42	67 F 649	2.94	2.65	2.50

AC MILLIAMMETERS

Ma	Stock No.	1-24, EA.	25-49, EA.	50-99, EA.	Stock No.	1-24, EA.	25-49, EA.	50-99, EA.
0-500	67 F 640	2.84	2.56	2.42	67 F 643	2.94	2.65	2.50

Write for Prices on Quantities of 100 or More Emico Panel Meters

JBT QUALITY METERS

MODEL 31-EX ELAPSED TIME METER

Records operating time of AC equipment in .1 hour steps to 9999.9 hours, then automatically resets. Flange, 3 1/2". Mounts in 2 1/4" hole; overall depth, 3 3/4". For 110-120 v., 60 cycle A.C. Shpg. wt., 1 1/4 lbs.
66 F 689. NET.....15.63



AC FREQUENCY METERS

Vibrating reed meters. *Measures frequency in 1-cycle steps; †in 5-cycle steps. ±0.3% at 77° F. Flange, 3 1/2"; body, 2 1/16"; overall depth, 3 3/4". For 100-130 volts. Shpg. wt., 12 oz.
66 F 685. Model 34-FX. 56-64 cycles*. NET...26.70
66 F 694. Model 33-FX. 380-420 cycles†. NET.....33.42



MODEL 23-UP-1 TEMPERATURE METER

Accurate, portable temperature meter. Tests oven thermostats in appliances. Permit accurate adjustment by showing oven temperatures as they change. 2 1/2" scale reads from 0-650° F. in 10° divisions. Automatically compensated for ambient temperature changes. Meter is mounted on a black metal panel. With attached 5 1/2-ft. calibrated thermocouple, clip, and convection shield. Black top-grain leather case. Size, 4 1/2 x 2 3/4 x 1 1/4". Shpg. wt., 2 1/4 lbs.
66 F 688. NET.....25.48

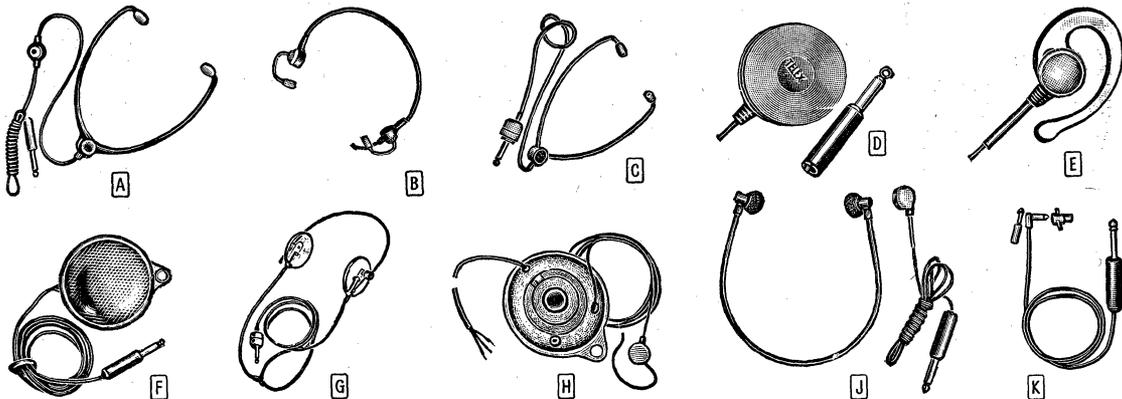


BENCH-TYPE METER CASE

Compact, sloping-front metal case with rounded top corners. Excellent for housing auxiliary test and measurement meters. Top binding posts. Black wrinkle finish. Holds meter at ideal angle. Size, 3 3/4 x 4". 2 3/4" diameter hole. Less meter. Shpg. wt., 1 lb.
66 F 506. NET.....1.29



Telex Headphones and Accessories



Famous, lightweight Telex headsets—used throughout the world on all types of audio equipment requiring private, continuous listening. Telex headsets are manufactured with the finest materials, and incorporate the most recent engineering advances.

Suitable for all applications requiring comfort, sensitivity and durability in a headset; ideal for communications work, offices, hospitals, Amateur radio, hard-of-hearing, and other uses. Cords are listed for those headsets supplied without cords.

METAL MONOSET

A Exceptionally comfortable, lightweight headphones, designed to eliminate fatigue and strain when headphones must be worn continuously for long periods. Total weight is only 1.2 ounces. Magnetic type receiver for crystal clear reproduction and rugged dependability. Light, metal housing with comfortable ear pieces. White plastic ear plugs remove easily for cleaning. Less cord. Shpg. wt., 8 oz.

59 J 280. Model 18110. 2000 ohms.
List Each, \$9.00. NET EACH.....5.40

WITH CORD. Monosets as above, with 5-foot cord and standard plug. Shpg. wt., 12 oz.
59 J 222. Model 18184. 2000 ohms.
59 J 223. Model 18183. 128 ohms.
List Each, \$12.50. NET EACH.....7.50

TWINSET

B An important innovation in headset design—nothing touches the ears with the Telex Twinset! Sensitive receivers rest lightly at the temples; tubular "pipes" send sound directly into ears. Perfect for long, fatigue-free listening; weighs only 1.6 ounces. *Approved by the Civil Aeronautics Authority. Supplied with two extra earplugs. Less cord. Shpg. wt., 8 oz.

59 J 285. Model 3776*. 1000 ohms.
59 J 286. Model 3781. 64 ohms.
List Each, \$17.50. NET EACH.....10.50

WITH CORD. Twinsets as above, with 5-foot cord and plug. Shpg. wt., 12 oz.
59 J 224. Model 3775*. 1000 ohms.
59 J 225. Model 3791. 64 ohms.
List Each, \$21.00. NET EACH.....12.60

HI-FI DYNASET

C Model 6701. Under-the-chin dynamic headset of superior quality. Receiver consists of a tiny, 3/4" diameter 6-ohm loud-speaker built into the plug. Extremely sensitive; frequency response extends from 50 to 8000 cycles at 25 mw. Speaker diaphragm directs sound, through 60-inch flexible tubing, into headset. Light gray finish. Shpg. wt., 6 oz.

59 J 239. List, \$14.75. NET.....8.85

MAGNETIC PILLOW SPEAKER

D Exceptionally small; for radio and TV listening through a pillow without disturbing others. For home or institutional use. Red waterproof plastic. 3/8x2 1/4" dia. Less cord. Shpg. wt., 6 oz.

59 J 290. Model 4531. 2000 ohms.
59 J 291. Model 4501. 128 ohms.
List Each, \$7.20. NET EACH.....4.32

WITH CORD. Pillow speakers as above, with 5-foot cord and plug. Shpg. wt., 10 oz.
59 J 226. Model 4530. 2000 ohms.
59 J 227. Model 4500. 128 ohms.
List Each, \$10.70. NET EACH.....6.42

MIDGET EARSET

E Extremely lightweight individual earsets—weigh only 1/2 ounce! Carefully designed holder is scientifically contoured to fit the ear comfortably. Unit utilizes high-quality receiver which reproduces speech with great clarity and fidelity; frequency response is from 50 to 4000 cycles. Available with metal ear bow also, where extreme ruggedness is desired. With or without cord and plug. Wt., 5 oz. without cord, 6 oz. with cord and plug.

LESS CORD

Stock No.	Type	Description	Ohms
59 J 228	18050	Plastic ear bow	15
59 J 265	18051	Plastic ear bow	128
59 J 267	18053	Plastic ear bow	1000
59 J 229	18137	Plastic ear bow	2000
59 J 237	9376	Metal ear bow	15
59 J 274	9329	Metal ear bow	128
59 J 273	9336	Metal ear bow	1000
59 J 244	18139	Metal ear bow	2000

List Each, \$6.50. NET EACH.....3.90

WITH CORD

Stock No.	Type	Description	Ohms
59 J 202	18134	Plastic ear bow	15
59 J 203	18056	Plastic ear bow	128
59 J 204	18058	Plastic ear bow	1000
59 J 207	18138	Plastic ear bow	2000
59 J 208	18092	Metal ear bow	15
59 J 209	9334	Metal ear bow	128
59 J 211	9335	Metal ear bow	1000
59 J 212	18140	Metal ear bow	2000

List Each, \$10.00. NET EACH.....6.00

DYNAMIC PILLOW SPEAKER

F Model 8110. An under-the-pillow loud-speaker with great power-handling ability; provides exceptionally clear, natural tone without any disturbance to others who may be sleeping nearby. Ideal for institutional use, or private listening at home to radio or TV set. 3.2 ohm voice coil matches most small radios and portable TV sets. With 5-foot cord and standard phone plug. 3 3/4" dia. 1 1/4" thick. Wt., 6 oz.

59 J 276. List, \$10.20. NET.....6.12
MODEL 8130. As above, but 10,000 ohms.
59 J 277. List, \$12.10. NET.....7.26

MUFF-TYPE HEADSET

G Sensitive headset with plexiglas ear cushions for comfort. Cushions and receivers are mounted on stainless steel headband; weight 1.6 ounces. Receiver is housed in special molded plug—directs sound through flexible tubing to ears. Complete with tubing and plug. Shpg. wt., 6 oz.
59 J 213. Model 18078. 15 ohms.
59 J 279. Model 8825. 128 ohms.
59 J 283. Model 9316. 2000 ohms.
List, \$18.45. NET EACH.....11.37

USEFUL TV "LISTENER"

H Model 9900. Use wherever individual listening is desired—ideal for families with children, hard-of-hearing, etc. Can be used by 2 people at the same time. Has volume control for earset; switch on control unit turns TV speaker on or off. 3 1/2x1". Control unit is equipped with 10' cord; earset, 4' cord. Shpg. wt., 8 oz.

59 J 263. List, \$16.25. NET.....9.75

TELE-FI HEADSET

I New, lightweight headset is ideal for applications where clarity and intelligibility of speech are important. Unique design provides a delay of 1 millisecond between earpieces; resultant sound greatly enhances clarity of speech. Excellent for secretaries, switchboard operators, TV monitors, etc. Receiver may be detached from dual set and mounted on plastic ear bow in seconds, for one-ear use. Weighs only 1/2 ounce. With cord and plug. Shpg. wt., 6 oz.

59 J 214. Model 18135. 15 ohms.
59 J 257. Model 18035. 128 ohms.
59 J 258. Model 18020. 1000 ohms.
59 J 217. Model 18160. 2000 ohms.
List Each, \$12.35. NET EACH.....7.41

CORD AND MINIATURE PLUG

K MODEL 9200. 5-ft. cord with 90° plug. Length of plug, 3/4". Dia., 3/8". For computers, dictating machines, and similar equipment. Shpg. wt., 5 oz.

59 J 252. List, \$3.15. NET.....1.89

CORDS, EXTRA TIPS AND ACCESSORIES

*Has built-in volume control. 4 oz.

No.	Description	For Use With	NET
59 J 270	Type 3280 standard cord	Twinset & Magnetic pillow Speaker	2.10
59 J 272	*Volume control cord w/5,000 ohm pot.	59 J 224 59 J 285	5.94
59 J 245	*Volume control cord w/20,000 ohm pot.	59 J 222, 59 J 226, 59 J 281, 59 J 290	5.94
59 J 246	*Volume control cord w/1,000 ohm pot.	59 J 280, 59 J 265, 59 J 286, 59 J 291, 59 J 223, 59 J 203, 59 J 225, 59 J 227	5.94
59 J 297	Type 18036 Plastic Earframe	Tele-Fi & Plastic Midget Earset	.48
59 J 269	Type 8555 5-ft. Extension Cord	Monoset, Twinset & Magnetic Pillow Speaker	2.10
59 J 242	Type 9245 Panel Mounted Jack	59 J 252 Cord/Plug	.24
59 J 243	Type 9231 Miniature Straight Plug	59 J 252 Cord/Plug	.36
59 J 254	Type 12102 Jack	"TV Listener," 9231 Straight Plug	.24
59 J 253	Type 9241 std. cord w/std. phone plug	Allsets, except Twinset & Magnetic Pillow Speaker	2.10
59 J 295	Ear Tips	All Twinsets	.09
59 J 296	Ear Tips	All Monosets	.09

American Bell & Cannon Headphones

C. F. CANNON HEADPHONES AND ACCESSORIES

BRANDES BS-2 "SUPERIOR" PHONES. A high-quality, ruggedly-built, 2000-ohm headset which has been a favorite for years. Outside terminal type; metal cases, bakelite caps. Diaphragm diameter is 2 1/8". Has double coils, one in each receiver. Flexible metal headband. Easily adjustable for maximum comfort. 4 1/2-foot cord. Shpg. wt., 1 1/4 lbs.



BRANDES "ADMIRAL" PHONES. Similar to above but with inside terminals.

59 J 130. NET..... 2.44
 59 J 135. BA-2. 2000 ohms. NET.... 2.44
 59 J 136. BA-3. 3000 ohms. NET.... 2.73
 59 J 137. BA-5. 5000 ohms. NET.... 3.53

REPLACEMENT CAPS AND DIAPHRAGMS. For "Superior" and "Admiral" phones, above.

59 J 138. Caps. Wt., 2 oz. EACH..... 21c
 59 J 140. Diaphragms. 2 oz. Pkg. of 2. 13c

CANNON-BALL "MASTER" PHONES. High-quality headset for communications and general-purpose applications. Cases are metal, with bakelite caps. Terminals are inside of case for maximum safety, from tampering. Chrome steel magnets produce strong field, and resist corrosion. With cord. Wt., 1 1/4 lbs.



59 J 215. MC-2. 2000 ohms. NET.... 2.44
 59 J 215. MC-3. 3000 ohms. NET.... 2.65
 59 J 126. MC-5. 5000 ohms. NET.... 3.38

CANNON-BALL CC-2 "CHIEF" PHONES. Sensitive and practical headset for all general use. Inside terminal connections. 2 1/8" diaphragms; bakelite case and cap. Vinyl plastic covered headband. 2000 ohms. With 4 1/2-ft. cord. Shpg. wt., 1 1/4 lbs.

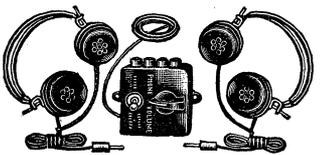


59 J 172. NET..... 2.35

REPLACEMENT CAPS AND DIAPHRAGMS. For "Master" and "Chief" phones, above.

59 J 127. Caps. Wt., 2 oz. EACH..... 21c
 59 J 129. Diaphragms. 2 oz. Pkg. of 2. 13c

CANNON TV HEADPHONE KIT



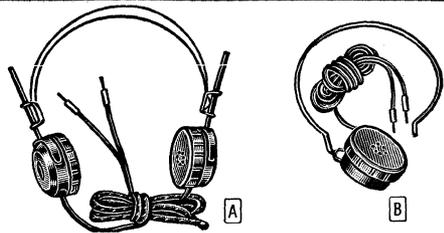
High-quality listening device to aid hard-of-hearing, or provide private, "silent" listening when others might be disturbed by loud-speaker operation. Volume control and Speaker-Phones switch on control box. Supplied with 15-ft. cord, and two pairs of headphones. Shpg. wt., 3 lbs.

59 J 175. NET..... 8.82
SINGLE HEADSET KIT. Same kit as above, but with only one pair of phones. 2 lbs.

59 J 176. NET..... 6.61
CONTROL BOX ONLY. Shpg. wt., 9 oz.
 59 J 177. NET..... 4.41
11-OHM DUAL HEADSET. Shpg. wt., 1 1/4 lbs.
 59 J 173. NET..... 2.23

ALLIED'S OWN AMERICAN BELL HEADPHONES

- Designed for Comfort
- Excellent Tonal Fidelity
- Remarkably Low Cost



Exceptionally sensitive headphones at remarkably low cost. For communications use, short-wave listening, code practice or class use. Produced by one of America's leading manufacturers. Noted for their remarkable tonal fidelity and sensitivity. Have adjustable flexible headbands for utmost wearing comfort and long life. Hyflux Alnico magnets for high efficiency and sustained power. Internal terminal connections. Cap and case are molded bakelite. All headphones supplied with 4 1/2-foot cord of mercerized cotton-covered tinsel. With standard phone tip terminals. Available in single or dual types; low-impedance models may be inserted in audio circuits directly at loudspeaker tap.

STANDARD DUAL HEADSETS

A Have double headband with firmly gripping, easily adjustable yokes. 1 7/8" diaphragm. Cords are cotton-covered tinsel. Shpg. wt., 1 1/4 lbs.

59 J 110. 2000 Ohms. NET..... 2.00
 59 J 111. 3000 Ohms. NET..... 2.08
 59 J 149. 4000 Ohms. NET..... 2.15
 59 J 141. 11 Ohms. NET..... 2.00

INSTITUTIONAL DUAL HEADSETS

Especially designed for schools, hospitals and other institutions where dependable, lightweight headphones are essential. Also ideal for use with crystal sets, battery radios and low-cost hearing aids. Every feature required for institutional use has been incorporated: Durable bakelite cases and caps which are easily cleaned; inside terminal connections, to prevent tampering; diaphragm is 1 7/8" in diameter; Hyflux Alnico permanent magnets assure excellent sensitivity. Provide crisp, clear reproduction of voice and music. 4 1/2-ft. braided cord. Comfortable, vinyl-plastic headband is easily adjustable. Shpg. wt., 1 1/4 lbs.

59 J 100. 2000 Ohms. NET..... 2.12
 59 J 101. 3000 Ohms. NET..... 2.20

SINGLE HEADPHONES

B Dependable, economy-priced single phones. Suitable for hard-of-hearing installations, receivers, crystal sets, Geiger counters, etc. Diaphragm is 1 7/8" in diameter. Has spring-metal headband which is permanently attached to back of case. Equipped with 4 1/2-ft. cotton covered cord. Shpg. wt., 8 oz.

59 J 112. 1000 Ohms. NET..... 1.08
 59 J 113. 1500 Ohms. NET..... 1.15

HEADPHONE REPLACEMENT PARTS

Replacement parts for the American-Bell headphones listed on this page. Made to the same high standards as the original parts to assure maximum efficiency.

DIAPHRAGM. Shpg. wt., 2 oz.
 59 J 104. Pkg. of 2..... 13c

BAKELITE CAP. Shpg. wt., 2 oz.
 59 J 106. NET EACH..... 13c

DOUBLE HEADBAND WITH YOKES. Adjustable vinyl-covered double headband with 2 yokes. Shpg. wt., 9 oz.
 59 J 174. NET..... 63c

AMERICAN BELL TRANSISTOR RADIO EARPIECES

Quality, lightweight earpieces; ideal for use with portable equipment. Replace earpieces used in popular transistor radios indicated in table below. Supplied in individual plastic box, complete with 3-ft. cord and plug. Wt., 5 oz.



Stock No.	For Use With
59 J 147	Regency, Admiral, Motorola, Roland, Zenith (except 500), Gambles, Philco T-7, Traveler, Hoffman, Airline (1100, 1102, 1106), Western Auto, Emerson, RCA, Arvin
59 J 193	Zenith 500 and Philco 500
59 J 109	Magnavox, Sonora, Bulova, Spartan, Sylvania
59 J 142	G.E. 5-Trans. (plastic case)
59 J 145	G.E. 6 and 7-Transistor (leather case)
59 J 133	Westinghouse, Airline 1108
59 J 116	Dewald
NET EACH.....	1.97

SEPARATE EARPIECE. Receiver and comfortable earpiece. Equipped with cord but less plug. Impedance, 8000 ohms. Excellent tonal quality. Shpg. wt., 4 oz.
 59 J 119. NET..... 1.97

EARPIECES FOR TV

For private listening to TV sets. Gives crisp, clear reproduction. May be worn for hours without fatigue. Shpg. wt., 5 oz.

59 J 117. For use with Emerson TV sets. With plug. NET..... 2.42

59 J 123. For use with Motorola TV sets. With plug. NET..... 2.42

59 J 192. For all TV sets except Emerson and Motorola. Alligator clips connect to voice coil. 8 oz. NET..... 3.75

EARPIECES WITH PL-55 PLUGS

High-sensitivity ear pieces. Supplied complete with standard PL-55 plug attached 5-ft. cord. Shpg. wt., 5 oz.

59 J 166. 15 ohms 59 J 134. 2000 ohms
 59 J 124. 120 ohms 59 J 167. 8000 ohms
 59 J 131. 1000 ohms
 NET EACH..... 2.42

CANNON-BALL RADIO HEARING AID

Popular, low-priced hearing aid for any radio set or TV set, easily attached to any loudspeaker. Excellent for private listening, or listening at late hours without disturbing others. Employs a specially-constructed low-impedance headphone which matches the output of radio or TV set. Built-in selector control switch permits listening with speaker only, headphone only, or both speaker and headphone simultaneously. Supplied complete with control box, connecting cables for attachment to speaker, and attachment of headphone to control box, easy-to-follow instructions and diagram. Shpg. wt., 1 lb.

59 J 118. NET..... 3.38



Headphones and Accessories



A



B



C



D



E



F

CLEVITE "BRUSH" HEADPHONES

A BA-200 Headphones. Very sensitive headphones with high impedance (45,000 ohms at 1000 cps.). Frequency response, 100 to 8000 cps. Cone type diaphragm. Molded plastic case shaped for maximum comfort. Require small DC blocking condenser for DC circuits. With 5-ft. cord and headband. Wt., 2 lbs.

59 J 151. NET.....12.64

Model BA-200B Headphones. Like BA-200 above; but equipped with cord wired for binaural use. Impedance, 90,000 ohms (at 1000 cps). Shpg. wt., 2 lbs.

59 J 152. NET.....13.82

B BA-201 Headphone. Similar to model BA-200 but, single headphone. 90,000 ohms (1000 cps); Shpg. wt., 1 lb.

59 J 156. NET.....7.94

C Lorgnette BA-202 Phone. For group hearing aid systems. Extends to 17", 90,000 ohms. With 5-ft. cord. Shpg. wt., 1 lb.

59 J 157. NET.....9.80

Hi-Fi Headsets. Double headphone sets that feature uniform frequency response, low distortion, and excellent bass response. Lightweight for maximum comfort. Impedance indicated is at 1000 cps. *For binaural use. Average shpg. wt., 3 lbs.

Stock No.	Type	Impedance	Response	NET
59 J 158	BA-205	75,000 ohms	100-10,000 cps	19.40
59 J 153	*BA-205B	150,000 ohms	100-10,000 cps	20.58
59 J 163	BA-206	50,000 ohms	60-8000 cps	20.38
59 J 154	*BA-206B	100,000 ohms	60-8000 cps	21.56

MYTRON HEADPHONES

D N-98 Headphones. Designed for general laboratory use where high impedance and sensitivity are necessary. Have a frequency response of from 100 to 10,000 cps. Impedance at 1000 cps is in excess of 50,000 ohms. Phones employ crystal elements for high sensitivity. Blocking capacitor required in presence of DC. With 4½-ft. flexible cord attached. Shpg. wt., 1 lb.

59 J 186. NET.....9.26

E N-130 Headphones. Extended frequency, crystal-type headphones, similar to model N-98 above; designed for high fidelity listening. Have remarkably wide response of from 60 to 13,000 cps. Impedance is 50,000 ohms at 1000 cps. Have cushioned headband for maximum comfort. Blocking capacitor required in presence of DC. With 4½-ft. cord. Shpg. wt., 1 lb.

59 J 187. NET.....10.20

S. G. BROWN TYPE K HEADPHONES

F Professional-type, high-fidelity dynamic headphones for broadcast use, monitoring, etc. Can be connected to any sound system, amplifier, radio, phonograph, recorder, or similar equipment. Headphones are actually 2 miniature high-fidelity loudspeakers—remarkable tonal fidelity and sensitivity. Uses moving-coil type armature assemblies for maximum response and fidelity; bakelized conical diaphragm; flux density, 6000 lines. Headbands and receiver cases are constructed of highly-polished dural for long life. Headbands are adjustable. Response: 50-10,000 cps. Rubber ear cushions; 6½-ft. cord. 52 ohms. Made in England. Shpg. wt., 1½ lbs.

59 J 337. NET.....28.95

600-OHM HI-FI HEADPHONES. As above, but 600 ohms.

59 J 338. NET.....34.50

TRIMM HEADPHONES AND ACCESSORIES



G



H



J



K

G "Military" Type. Constructed to meet military headphone specifications. Impedance, 20,000 ohms; DC resistance, 2,000 ohms. Metal shell with bakelite cap. 6 ft. cord. Inside terminals. Rubber-covered headband. Shpg. wt., 1½ lbs.

59 J 040. NET.....11.76

H "Featherweight" Type. Weigh less than 5 ounces. Black bakelite caps and shells. Forged magnets; pole pieces of permalloy. Impregnated coils. Supplied with flexible 6-ft. moisture-proof cord. Shpg. wt., 9 oz.

59 J 000. Standard. 4000 ohms.

59 J 001. Special. 24,000 ohms.

NET EACH.....6.47

59 J 013. Replacement Caps. For "Featherweight" phones. EACH.....47c

59 J 042. Diaphragms. For "Military" and "Featherweight" types. EA. 15c

J "Professional" Type. Magnetic headphones for general use. Bakelite caps and shells. Forged magnets of chrome steel, impregnated coils. 5-ft. cord. Inside terminals. Have plastic-covered headband. Shpg. wt., 1¼ lbs.

59 J 020. 3000 ohms. NET

59 J 021. 4000 ohms. EACH.....3.41

59 J 030. Replacement Caps. EACH.....38c

59 J 031. Extra Diaphragms. EACH.....12c

K Acme "Deluxe" Type Headphones. Sensitive headphones designed for every use. 2000 ohm impedance. Sturdily constructed for dependable performance under all conditions. 4½-ft. cord. Shpg. wt., 8 oz.

59 J 070. NET.....2.12

Extra Diaphragms. For above. 2 oz.

59 J 012. EACH.....12c

LORGNETTE TYPE EARPHONE



Hand-held type hearing aid. Same construction as "Featherweight" phones above. Excellent for use in churches, and small theaters. Earphone size, 2½" dia. x ¾" thick. Handle extends to 14". Impedance, 4500 ohms; DC resistance, 1000 ohms. Supplied with flexible, braided 6-ft. cord with phone tips. Shpg. wt., 10 oz.

59 J 036. NET.....4.85

INDIVIDUAL VOLUME CONTROL



Consists of phone jack and volume control mounted in compact box. Ideal for group hearing aid systems in theaters, churches, schools, etc. Resistance: 10,000 ohms. Size: 3¼x2½x1¼". Shpg. wt., 1 lb.

59 J 056. Brown wrinkle. NET EACH.....2.94

HEADPHONE CORDS



Wide selection of low loss headphone cords. Copper inner conductor covered with woven cotton braid. For phones on this page and pages 418 and 419. All cords have 2 phone tips at one end; *terminals at opposite end of cord. Shpg. wt., 2 oz.

Stock No.	*Terminals	For Use With	NET EACH
59 J 220	Eyelet type. For inside terminals.	59 J 100, -101, -110, -111, -125, -126, -172, -135, -136, -137, -215	50c
59 J 205	Eyelet type.	59 J 130	
59 J 206	Has phone tips on both ends	Govt. and military types	50c
59 J 002	Small blunt tips	59 J 070	

5 Ft. Double Cords			
Stock No.	*Terminals	For Use With	NET EACH
59 J 006	Large blunt tips	59 J 020, -021	
59 J 181	Eyelet type	59 J 151, -158, -163	54c

6 Ft. Double Cords			
Stock No.	*Terminals	For Use With	NET EACH
59 J 004	Eyelet type	59 J 000, -001	
59 J 007	Large blunt tips	59 J 040	58c

8 Ft. Double Cords			
Stock No.	*Terminals	For Use With	NET EACH
59 J 221	Eyelet type	Same as type 59 J 220 above	
59 J 218	Eyelet type	59 J 130	
59 J 219	Has phone tips on both ends	Govt. and Military type	74c

Single Cords			
Stock No.	*Terminals	For Use With	NET EACH
59 J 200	4 ft. cord with eyelet type	59 J 112, -113	33c
59 J 182	6 ft cord with eyelet type	59 J 157	50c

RUBBER PHONE CUSHION



Molded rubber ear cushions slip over phones. Provide maximum wearing comfort. Wt., 6 oz.

59 J 168. NET, PAIR.....64c

10 or More Pairs, PER PAIR.....58c

Headsets, Converters and Chargers

GENERAL PHONES MODEL CIC-B HIGH-FIDELITY BINAURAL HEADSET

For Private
Stereophonic
Listening



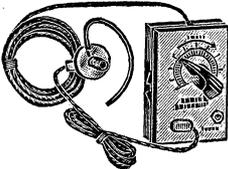
This newly developed, binaural headset is perfect for private listening to stereophonic hi-fi systems—preserves the full 3-dimensional stereo effect and reproduces with outstanding clarity and realism.

Features variable-reluctance design for extremely wide, remarkably smooth response—from 30 to 16,000 cps.

Hermetically sealed, molded-rubber ear cushion; unaffected by dust, dirt and humidity. Matches impedance of any high-fidelity amplifier from 3.2 to 16 ohms. Comfortable and light in weight. With 4-ft. nylon-covered cord. Shpg. wt., 1 1/4 lbs.
59 J 339. NET.....29.40

FEDTRO "PRIVATE-LEE" RADIO-TV EARPHONE SET

Connects
to Any
Radio or TV



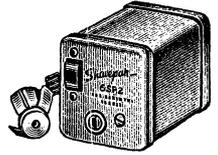
An excellent private-listening outfit, easily connected to any radio or TV. Permits listening without disturbing others; also fine for the hard-of-hearing. For home use, hospitals and other institutions, beauty parlors, etc.

Consists of comfortable, lightweight earpiece, plus ivory-plastic control box with volume control and connecting 17-ft. cable.

Control box has two jacks for earpiece—one jack automatically shuts off speaker to permit listening on earpiece only; the other jack is used when sound is desired from both the earpiece and the speaker. Easy-to-follow instructions. Shpg. wt., 1 lb.
59 J 255. List, \$12.95. NET.....7.61

CORNELL-DUBILIER DC TO AC CONVERTERS

The famous line of Cornell-Dubilier "Powercon" DC to AC converters. Efficient vibrator-type recommended for operating AC appliances from DC power sources. All units have well-regulated output of 110 volts, 60 cycle AC. Feature improved RF filtering. Now have a higher rating for intermittent overloads. Wattage figures for intermittent use are free of power factors from 70-100%. Superior filtering assures output free of "hash". Model 12SS14 comes in case of size indicated, providing room for 12 v. battery (supplied less battery). Frequency stability regardless of load. Instant starting under load—no warm-up period needed. Output has complete RF filtering for clear TV, short-wave, AM and FM broadcast reception. Choice of sizes for wide variety of applications. *For small portable types. Converters listed according to inputs: 6 volt battery, 12 volt battery or 110 volts DC. Models 110H25 and 110H35 are approved for TV sets and are TRI-proofed.



Stock No.	Mfr's Type	Typical Applications	Input V. DC	Watts Cont. Inter.		Size	Wt. Lbs.	List	NET
				Cont.	Inter.				
80 P 300	6SP2	Electric shaver	6	20	20	2 1/2 x 2 1/2 x 3 3/4"	2	\$8.58	5.05
80 P 301	6L6	Phono motor, amplifier	6	60	80	5 1/2 x 6 1/4 x 8"	12	41.28	24.27
80 P 302	658	Radio, phono, recorder	6	80	100	5 1/2 x 6 1/4 x 9"	14	49.60	29.16
80 PU 304	6SH15	Radio, recorder, PA	6	150	175	8 x 9 1/2 x 13"	35	79.68	46.85
80 P 263	6/12D6	Dictating Machines*	6/12	60	75	5 1/2 x 7 3/4 x 6 1/4"	11 1/2	50.00	29.40
80 P 305	12SP2	Electric shaver	12	20	20	2 1/2 x 2 1/2 x 3 3/4"	2	13.40	7.88
80 P 306	12M6	Radio, phono, amplifier	12	60	80	4 1/2 x 1 1/2 x 5 3/8"	6	34.50	20.29
80 P 307	12L8	Radio, phono, recorder	12	80	100	5 1/2 x 6 1/4 x 8"	12	44.95	26.43
80 P 308	12S10	Radio, recorder, PA	12	100	125	5 1/2 x 6 1/4 x 9"	14	72.50	42.63
80 PZ 199	12SS14	TV, recorder, PA	12	140	175	9 1/2 x 9 1/2 x 14"	60	...	77.91
80 PU 309	12H15	Radio, recorder, PA	12	150	175	6 1/2 x 7 1/2 x 11"	20	99.50	58.55
80 PU 198	12SH20	TV, recorder, PA	12	200	250	8 x 9 1/2 x 13"	35	129.50	76.15
80 P 310	110LM5	Phono, amplifier	110	50	60	3 1/2 x 3 x 4 1/4"	4	28.50	16.76
80 P 311	110L10	Radio, recorder, PA	110	100	150	5 1/2 x 6 1/4 x 8"	12	57.50	33.81
80 PU 312	110H25	TV, recorder, PA	110	250	325	6 1/2 x 7 1/2 x 11"	20	89.50	52.63
80 PU 313	110H35	TV, recorder, PA	110	350	450	6 1/2 x 7 1/2 x 11"	20	135.00	79.38

TERADO 6 AND 12 V. DC TO 110 V. AC CONVERTERS

Convenient DC-to-AC converters for operating 110-volt AC electrical devices from automobile batteries. Converter plug fits automobile cigarette-lighter socket, except for models marked †, which clip directly to the battery terminals with clips provided. The units permit operation of portable TV sets, radios, tape recorders, soldering irons, incandescent lights, electric razors, etc. Check wattage requirements of equipment, and voltage of auto battery, before selecting converter.

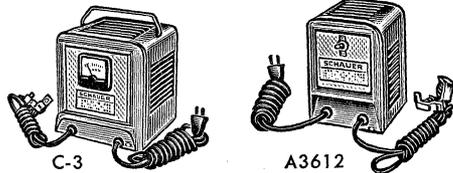
- Picnic or Camp in Comfort
- Use Electricity From Car



50153

50103

Stock No.	Mfr's Type	Input DC Volts	Output V., 60 cycles	Watts		Size	Wt. Lbs.	NET
				Cont.	Inter.			
80 P 194	50102	6	110	15	15	2 x 3 x 4"	2	7.77
80 P 196	50103	12	110	10	20	2 x 3 x 4"	2	7.77
80 P 272	50115	6	110	35	40	2 1/2 x 2 1/2 x 4 1/2"	3 1/4	13.17
80 P 273	50116	12	110	40	50	2 1/2 x 2 1/2 x 4 1/2"	3 1/4	13.17
80 P 270	50120	6	110	60	75	6 x 5 x 4"	8	28.17
80 P 271	50127	12	110	75	85	6 x 5 x 4"	8	28.17
80 P 276	50137†	6	110	75	100	6 x 5 x 4"	9	38.97
80 P 277	50138†	12	110	100	125	6 x 5 x 4"	9	38.97
80 P 287	50135	6	110	55	75	6 x 5 x 4"	9	32.97
		12	110	85	110	6 x 5 x 4"	9	32.97
80 P 197	50134†	6	110	55	75	4 x 5 x 6"	9	31.17
		12	110	85	110	4 x 5 x 6"	9	31.17
80 PU 193	50153	12	110	175	200	6 x 6 x 11"	24	59.97



C-3

A3612

SCHAUER QUALITY BATTERY CHARGERS

4-AMPERE CHARGERS

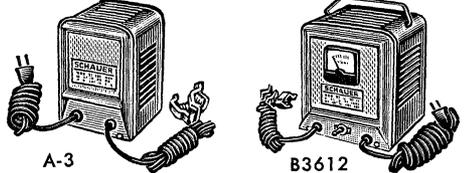
Dependable, safe chargers utilizing the finest available materials and components; designed especially to re-charge heavy-duty batteries as used in trucks, tractors and farm and mobile equipment. 10 ampere charging rate permits over-night charging of most batteries. Ideal for quick charging during intervals when equipment is not in use, but must be ready in a hurry. Widely used for re-charging taxicab batteries, or other vehicle batteries which are required to power other electronic equipment in addition to automotive requirements. Has automatic safeguard provision for full, instantaneous protection against short circuits and overloads. Charging rate gradually is decreased as batteries approach full charge. Full-wave charging output for high operating efficiency. Has accurate ammeter, which indicates exact rate of charge. Supplied with cords and clips. 7 1/4 x 6 1/4 x 6 1/4". For operation from 110-120 v., 60 cycle AC. Shpg. wt., 10 lbs.

Model C3. For 6-volt batteries.
80 P 163. List, \$26.95. NET.....17.83

Model C312. For one 12-volt or two 6-volt batteries in series. Otherwise as above.
80 P 164. List, \$32.95. NET.....21.80

Model A3. Efficient, 6-volt overnight battery charger. Has a tapered 4-amp. to 2-amp. charging rate. Includes full-wave charging output which makes possible higher efficiency of operation. Rectifiers are selenium for dependable service. Equipped built-in "Charger Guard." Pays for itself in longer battery life and protection from battery failure. With cables and clips. Size, 6 1/4 x 4 1/4 x 4 1/4". For 110-120 v., 60 cycle AC. Shpg. wt., 4 lbs.
80 P 284. List, \$19.95. NET.....13.20

Model A3. Efficient, 6-volt overnight battery charger. Has a tapered 4-amp. to 2-amp. charging rate. Includes full-wave charging output which makes possible higher efficiency of operation. Rectifiers are selenium for dependable service. Equipped built-in "Charger Guard." Pays for itself in longer battery life and protection from battery failure. With cables and clips. Size, 6 1/4 x 4 1/4 x 4 1/4". For 110-120 v., 60 cycle AC. Shpg. wt., 4 lbs.
80 P 161. List, \$13.95. NET.....9.23



A-3

B3612

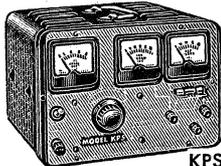
6-AMPERE CHARGERS

Model B3612. 6-ampere, 6-volt and 12-volt battery charger. Will fully charge the average battery in from 7 to 9 hours. Has a selector switch for changing from 6-volt to 12-volt operation. Accurate, numeral dial ammeter shows the exact rate of charge entering the battery. The charger is thoroughly efficient. Excellent for use with autos which are equipped with public address systems, 2-way radios, etc. This unit is ideal for restoring battery to full-charge overnight. Has fully automatic safeguard provision against short circuits and overloads. Comes complete with 7 1/4 x 6 1/4 x 6 1/4". For 110-120 v., 60 cycle AC. Shpg. wt., 8 1/2 lbs.
80 P 285. List, \$28.95. NET.....19.15

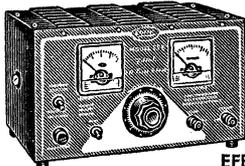
Model B3. 6-volt, 6-ampere battery charger. Fully charges the average run-down battery in 7 to 9 hours. For autos equipped with two-way radio communication, etc. Equipped with "Charger Guard" for protection against overloads and short circuits. Ammeter indicates charging current. Supplied complete with cable and battery clips. Steel case size, 7 1/4 x 6 1/4 x 6 1/4". For operation from 110-120 v., 60 cycle AC. Shpg. wt., 8 lbs.
80 P 162. List, \$19.95. NET.....13.20

Power Supplies & Rectifiers

ELECTRO-PRODUCTS POWER SUPPLIES



KPS-2



EFB

Model KPS-2 DC Power Supply Kit. A highly efficient, easy-to-build unit. For servicing transistor portable meters and 6/12 v. auto sets. Two output ranges with separate current meters and output terminals. Delivers 0-20 volts at 75 ma and 0-16 at 5 amps. Variable transformer provides smooth voltage adjustment. 0-20 v. range has 75-ma meter and fused secondary for transistor protection. 0-16 v. range has 10-amp meter. Maximum ripple: 0-20 v. range, 0.15% at 75 ma; 0-16 v. range, 0.5% at 5 amps. Special pi-type filter. Selenium rectifiers have conduction cooling for long life. Includes fused primary. With assembly instructions. Sturdy metal case. 8 1/2 x 8 3/4". For 110-120 v. 50-60 cycle AC. Shpg. wt., 15 lbs.

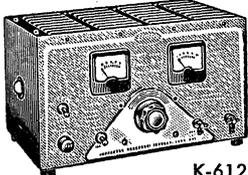
80 PX 038. NET.....39.95

Model PS-2. Same as above, but factory wired and tested.

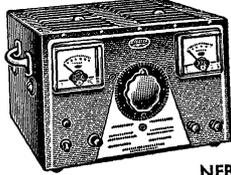
80 PX 039. NET.....49.95

Model EFB DC Power Supply. Specially designed for exacting requirements of transistor work. Ideal for servicing transistor auto sets, as well as standard 6 and 12-volt vibrator-powered equipment. Continuously variable voltage control. 0-16 volts for current loads up to 8 amps; 0-32 volts for loads up to 5 amps. Current and voltage indicators on panel meters with 2% D'Arsonval movements. Less than 0.1% AC ripple at maximum ratings; less than .01% at loads up to 100 ma. Bridge-type selenium rectifiers have conduction-cooling design for long life. Employs pi-type filter with 2 chokes and 2 capacitors. Also has built-in "hash" filter. Fuseholder and 5-way binding posts are conveniently located on front panel. Rugged, blue Hammerloid steel cabinet. 7x12x8 1/2". For 110-120 v. 50-60 cycle AC. Shpg. wt., 35 lbs.

80 PU 024. NET.....120.00



K-612T



NFB

Model K-612T DC Power Supply Kit. Deluxe, easy-to-build unit. Designed for servicing transistor auto sets, as well as standard 6 and 12-volt vibrator-powered models—also suitable for transistor portables. Two continuously variable ranges: 0-8 volts and 0-16 volts. 10 amps continuous duty up to 12 volts; up to 20 amps intermittent. Less than 0.5% ripple up to 5 amps; 2% at up to 10 amps. Four bridge-type selenium rectifiers with conduction cooling. Choke-input filter with 10,000 mfd. capacitor. Two panel meters for constant check on voltage and current. 0-8 and 0-16 volt selector switch; convenient panel-mounted fuseholder. Rugged steel cabinet with blue Hammerloid finish. Size, 7x12x8 1/2". For 110-120 v. 50-60 cycle AC. Shpg. wt., 22 lbs.

80 PU 070. NET.....44.95

Model D-612T. Same as above but factory wired and tested.

80 PU 283. NET.....49.95

Model NFB Power Supply. Deluxe unit for continuous heavy-duty operation; ideal for work on aircraft electronic equipment. Output continuously variable, 0-36 volts for loads to 15 amps. D'Arsonval meters. Ripple: Less than 0.75% @ 15 amps. Filter circuit has two chokes and 6000 mfd. capacitance. Regulation: 16% no load to full load. Circuit breaker for overload protection. Variable autotransformer for smooth control. 5-way output terminals. Drain: 730 w., with 32-volt, 15 ampere output. Bridge-type germanium rectifiers. Blue Hammerloid steel cabinet, 14 1/2 x 14 x 9 3/4". For operation from 110-120 v. 50-60 cycle AC. Shpg. wt., 86 lbs.

80 PZ 282. NET.....210.00

Model NFBM. Same as NFB unit above, but for rack mounting. Has 1/4" steel panel 19x10 1/2". Shpg. wt., 100 lbs.

80 PZ 290. NET.....235.00

MALLORY POWER SUPPLIES

6 AND 12-VOLT BATTERY CHARGERS



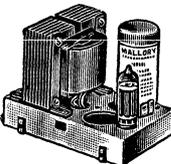
Highly efficient selenium-rectifier battery chargers. May also be used as power supplies for electroplating, model trains, telegraph systems, vending machines, relays, solenoids, etc. Charging rate decreases as battery becomes charged, except with 6SAC4. Equipped with socket for use with K675 charging cord below. All have DC cord with battery clips. Pilot light on all units except 6SAC4. Pilot light dims as battery becomes charged and blinks if charger connections are shorted or reversed. For 6 v. batteries except *12 v. For 105-125 v. 60 cycle AC.

Stock No.	Mfr's Type	DC Amps Max Taper	Max DC Amps Continuous	Sizes H. W. D.	Wt. Lbs.	List	NET EACH
80 P 086	6SAC4	4 4	3	4 1/2 x 4 1/2 x 4 1/2	5 1/2	\$19.95	13.03
80 P 093	6SAC6	6 4	5	6 1/2 x 4 1/2 x 4 1/2	6	22.95	14.99
80 P 094	6SAC10	10 7	8	7 1/2 x 6 1/2 x 4 1/2	9	33.95	22.18
80 P 087	12SAC3*	5 3	4	7 1/2 x 6 1/2 x 4 1/2	9	33.95	22.18

Type R675 Charging Cord with Universal Filter Plug. Charges car battery through cigarette lighter. 6-ft. cord. Shpg. wt., 6 oz.

52 P 643. List, \$2.25. NET.....1.47

PORTABLE AND MOBILE HIGH-VOLTAGE DC VIBRAPACKS



Mallory vibrapacks provide high-voltage DC from low-voltage storage batteries. Excellent as source of "B" power for portable radios, transmitters and receivers, model F.V. systems, etc. Have filter for vibrator hash. All are tuberculating types for use in circuits where self-bias is obtained through a resistor or choke between B-negative and ground. VP6-260, VP12-260 and VP24-260 can be converted to 200 v. DC output at 60 ma with simple wiring change. All require external filter circuit. Size, 5 1/2 x 3 3/4 x 4 1/2".

Stock No.	Mfr's Type	Input VDC	Output VDC	Max. Ma.	Wt. Lbs.	List	NET EACH
80 P 118	VP6-260	6	260	60	5	\$28.95	17.02
80 P 119	VP12-260	12	260	60	5	28.95	17.02
80 P 133	VP24-260	24	260	60	6	30.95	18.20
80 P 116	VP6-325	6	325	100	6	29.95	17.61
80 P 117	VP12-325	12	325	100	6	29.95	17.61
80 P 134	VP24-325	24	325	100	6	32.95	19.37

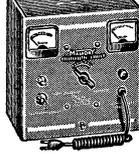
12RS6DF BENCH POWER SUPPLY



Dual-range power supply for servicing car, truck and transistor radios. Range "A" supplies 0-16 v. at 6 amps continuously, or 14 amps intermittently. Range "B" provides 0.8 v. at 10 amps continuously or 20 amps intermittently. 2 1/4" voltmeter and ammeter; ranges: 0-10 v. DC and 0-20 amps DC. Provision for plugging in external ammeter. Includes built-in filter pack similar to Type MA-6—provides filtered output up to 6 amps at less than 0.5% ripple; 6 volts at less than 1 v. rms ripple; 12 volts at less than 0.5 v. rms ripple. With automatic overload protection. Size, 6 3/4 x 10 1/2 x 5 1/2". For 110-120 v. 60 cycle AC. Shpg. wt., 1 1/2 lbs.

80 PX 291. NET.....58.75

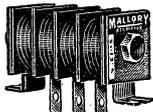
12RS14D "RECTOPOWER" BENCH SUPPLY



Efficient versatile power supply. Provides filtered and continuously adjustable power for electronic equipment operating on 6 or 12 volts. Supplies 6 volts at 25 amps continuous or 40 amps intermittent; 12 volts at 14 amps continuous or 20 amps intermittent. Automatic voltage regulating system maintains constant output under varying load. Includes DC voltmeter and DC ammeter. Overload protection. Has large-capacity electrolytic capacitors that provide power storage for operation of vibrator powered equipment. Uses selenium rectifiers. Size, 11x10 1/2 x 8 1/4". For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 35 lbs.

80 PU 132. NET.....136.71

MALLORY DRY-DISC RECTIFIERS



IB12C1J



IB8R

Magnesium-copper sulphide rectifiers for use in low voltage DC power supplies of all types. Used in battery chargers, eliminators, model train supplies, etc. Single phase, full-wave bridge type. Unaffected by temperature extremes (-90° to +265°F.). Constant output without adjustments. "Self-healing" rectifying film. †At full load. Type of mounting: *Insulated bolt; †grounded foot; †insulated stud. J suffix indicates universal design for all types of mounting.

Stock No.	Mfr's Type	Max. ACV Input	DC Volts Output†	Cont. Duty Amps	Size H. W. D.	Replacement in Equipment	Wt. Lbs.	List	NET EACH
56 P 174	IB4R*	3.2	1.7	1.5	3/4 x 3/4 x 1"	GTC Battery Eliminator	1/4	\$2.90	1.89
56 P 175	IB8R*	6.4	3.4	1.5	1 1/2 x 3/4 x 1 1/2"	GTC Battery Eliminator	1/4	3.45	2.25
56 P 176	IB12R*	9.7	5.2	1.3	1 3/4 x 3/4 x 1 3/4"	Electric Fence Supplies	1/4	3.95	2.59
56 P 179	IB12L5*	9.7	5.0	4.5	2 1/2 x 2 1/2 x 2 1/2"	Mallory 6AC4-2 Charger	1/2	7.10	4.65
56 P 180	IB12C5*	9.7	5.0	5.3	2 1/2 x 2 1/2 x 3"	Mallory 6AC3-3 Charger	3/4	8.95	5.85
56 P 170	IB12C11*	9.8	5.1	3.2	1 1/2 x 1 1/2 x 2 1/2"	Mallory 3C, 6AC4 Booster	3/4	7.25	4.74
56 P 177	IS16CB7*	12.8	6.6	6.0	3 1/2 x 2 1/2 x 3 1/2"	Mallory 5535B, 6AC6, IS16CB7M	1 1/2	12.00	7.84
56 P 181	IS16B7§	12.8	6.5	8.3	3 1/2 x 2 1/2 x 5 1/2"	6-AC-10-2, 107, IS16B7M	2	13.60	8.89
56 P 182	IS16B9§	12.7	6.4	11.6	4 1/4 x 3 1/2 x 5 1/2"	Mallory 6AC10	3	15.50	10.13
56 P 187	F16C3†	13.0	6.8	3.9	2 1/4 x 1 1/2 x 2 1/2"	Mallory 5535	1	10.70	6.99
56 P 184	F20C7†	16.2	8.4	4.8	3 3/4 x 2 1/2 x 4 1/4"	ATR Battery Eliminators	1	15.40	10.06
56 P 186	IS24C7§	19.4	10.1	4	3 3/4 x 2 1/2 x 4 1/4"	Mallory 12-AC-5-2	2 1/2	15.45	10.09

MALLORY MA-6 FILTER PACK



Model MA-6 Filter Pack. Designed for use with 12RS6D or other similarly rated bench power supplies where additional filtering is required. Particularly useful when servicing transistor radios. Rated to handle output currents up to 6 amperes. Output ripple is less than 0.5% when used with 12RS6D. Equipped with an accurate-reading ammeter which is placed in the circuit by depressing the automatic spring return switch located on the front panel. Matches the 12RS6D in appearance. Housed in handsome Hammertone case. Size, 4 7/8 x 5 1/2 x 6 1/2". Shpg. wt., 5 1/4 lbs.

80 P 292. NET.....17.15

Model A-4 Filter Pack. Similar to model MA-6, but provides filtering for output currents of up to 4 amperes. Does not have meter or push-button switch. Size, 4 1/4 x 5 1/4 x 4 1/4". Shpg. wt., 3 1/2 lbs.

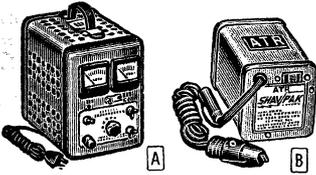
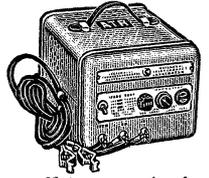
80 P 293. NET.....10.53

Converters and Power Supplies

ATR INVERTERS AND POWER SUPPLIES

DC TO AC UNIVERSAL INVERTERS

Universal inverters for operating 110-volt, 60 cycle AC equipment from DC voltages in autos, buses, trucks, boats, trains, planes and DC districts. Designed especially for standard 110-volt AC tape recorders, TV sets, radios, PA systems, electric razors, test equipment, etc. Units are carefully engineered and ruggedly constructed to provide long life operation. All feature complete RF interference suppression and exceptional frequency stability. Have operating efficiency in excess of 75%. Four-point voltage regulator corrects output voltage for minimum and maximum loads, and also helps compensate for input voltages lower or higher than normal. Inverters are recommended for use with loads having power factors in excess of 70%. Built-in toggle switch selects most efficient operation for use with TV sets or tape recorders. Inverters are not recommended for use with large motor driven appliances such as refrigerators, washing machines, etc. All have On-Off switches. Housed in attractive gray Hammerlock metal cabinet with convenient leather carrying strap. Sizes: Standard Model RSF, 8 1/2 x 9 7/8 x 5 1/4"; Heavy-Duty Model RHG, 6 7/8 x 11 1/4 x 8 1/2"; Extra-Heavy-Duty Model HSJ, 6 1/2 x 12 1/8 x 8 1/2". With battery clips for instant connection to power source. Models with "P" suffix equipped with adapter cord for use in auto cigarette lighter receptacles. *Recommended for 24-volt battery operation. *Before ordering inverter, be sure to check wattage rating of specific equipment with which inverter will be used.*



6-12 V. DC POWER SUPPLIES

A Type 610C-ELIF. Features either 6 volts @ 10 amperes continuous, or 12 volts @ 6 amperes continuous. Has voltmeter and ammeter. Toggle switch selects 6 or 12 volts output. 8-position voltage selector control. For 105-125 v., 50-60 cycle AC. Gray steel case, 6 1/2 x 9 7/8 x 8 1/2". Shpg. wt., 22 lbs. **80 P 243. NET.....42.95**

A Type 620C-ELIT. Heavy-duty model. Uses dual rectifiers—full wave assures noiseless operation. Rated output: 6 volts at 20 amperes or 12 volts at 10 amperes. Has voltmeter and ammeter. Gray steel case with handle. 8-position voltage selector control. Size, 6 1/2 x 12 7/8 x 8 1/2". 105-125 volts, 50-60 cycle AC. Shpg. wt. 33 lbs. **80 PU 234. NET.....59.95**

6 AND 12 V. SHAV-PAKS

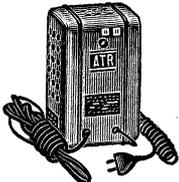
B Miniature inverters especially designed to operate standard AC electric shavers from 6 and 12-volt storage batteries in autos, buses, trucks, boats and planes. Ideal for salesmen, sportsmen. Plugs into cigarette lighter receptacle. Both 6 and 12-volt models provide 115 volts 60 cycle AC output at 15 watts. In attractively finished Hammerlock steel case. 4 1/2 x 2 3/4". Shpg. wt., 2 1/2 lbs.

Model 6-SPB. For 6-volt operation. **81 P 944. List, \$9.95. NET.....6.63**

Model 12-SPB. For 12-volt operation. **81 P 945. List, \$9.95. NET.....6.63**

6-12 V. BATTERY CHARGER

Model 612A6. Charges 6 or 12-volt storage batteries through cigarette lighter receptacle of any vehicle. 6 amp charge rate tapers to 3 amp. Plug-in cigarette lighter eliminates need for fuses. For use in negative and positive-ground vehicles. Has On-Off and Voltage Selector switches. Full-wave selenium rectifier. 8 1/2 x 5 1/2 x 3 3/4". For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 8 lbs. **81 P 946. List, \$27.95. NET.....20.96**



CARTER CONVERTERS

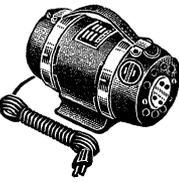
Super Converters For Tape & Wire Recording

Rotary converters specially designed to operate tape and wire recorders from a DC power source. Dependable construction features cross-stacked armature laminations for reduction of eddy current and hysteresis losses. Heavy, triple-insulated magnet wire. Ideal power factor for recorder loads assures proper recording and playback performance. Efficiency, 60%. Single-phase output only, with approximately 20% regulation, no load to full load. Output: 115 volts, 60 cycles AC. Supplied complete with plug-in AC receptacle and DC connecting cord. Size, 5 x 8 1/4 x 4 1/2". Shpg. wt., 15 lbs.

Type B1080CBW. 12 volts DC to 115 volts AC, 80 watts. Designed for all mobile applications—ideal for railroad and marine use. Features drip-proof ventilated construction. Extra-long-life brushes. 70% power factor up to 80 watts for operating most recorders. Easily carried from place to place; provided with extra-strong leather strap. Wt., 15 lbs. **80 P 058. List \$108.00. NET.....79.38**

Type B1010CBW4. 12 v. DC to 115 v. AC. 130 watts. Size, 5 x 8 1/4 x 4 1/2". Shpg. wt., 15 lbs. **80 P 059. List, \$123.00. NET.....90.40**

Type A1010CBW4. Same as above, but 6 v input. Shpg. wt., 15 lbs. **80 P 069. List, \$123.00. NET.....90.40**



Stock No.	Mfr's Type	Input DC Volts	Output 60 Cycle	Watts		Wt., Lbs.	List	NET EACH
				Cont.	Inter.			
81 PU 922	6U-RSF	6	110 v.	80	100	22	\$75.00	50.00
81 PU 923	6U-RSF-P	6	110 v.	80	100	22	75.00	50.00
81 PU 924	6U-RHG	6	110 v.	125	150	27	89.95	59.97
81 PU 925	6U-HSJ	6	110 v.	150	175	37	125.00	83.34
81 PU 926	12U-RSF	12	110 v.	100	125	22	75.00	50.00
81 PU 927	12U-RSF-P	12	110 v.	100	125	22	75.00	50.00
81 PU 928	12U-RHG	12	110 v.	150	175	27	89.95	59.97
81 PU 929	12U-HSJ	12	110 v.	200	250	37	125.00	83.34
81 PU 930	28U-RSF*	28	110 v.	100	125	22	89.95	59.97
81 PU 931	28U-RHG*	28	110 v.	150	175	27	105.75	70.50
81 PU 932	28U-HSJ*	28	110 v.	200	250	37	145.00	96.67
81 PU 933	32U-RSF	32	110 v.	100	150	22	89.95	59.97
81 PU 934	32U-RHG	32	110 v.	150	200	30	105.75	70.50
81 PU 935	32U-HSJ	32	110 v.	225	325	37	145.00	96.67
81 PU 936	50U-RSF	50	110 v.	100	150	22	89.95	59.97
81 PU 937	110U-RSF	110	110 v.	150	250	22	75.00	50.00
81 PU 938	110AU-RHG	110	110 v.	250	325	27	89.95	59.97
81 PU 939	110BU-RHG	110	110 v.	350	450	30	105.75	70.50
81 PU 940	110U-HSJ	110	110 v.	400	600	37	145.00	96.67

PORTABLE PLUG-IN TYPE INVERTERS

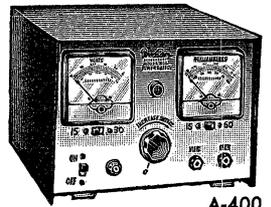
Lightweight inverters for operating 110 v. AC equipment from DC voltage sources. Feature excellent frequency stability and high efficiency. 6 and 12-volt units plug into cigarette lighter receptacle of any vehicle; others are equipped with standard 2-prong plugs. All are designed especially for use with dictating machines, record players, electric razors, test equipment, etc. Not recommended for tape recorders and large motor driven appliances such as refrigerators, washing machines, etc. Gray Hammerlock case with leather carrying strap. Sizes: DME, 5 1/4 x 4 3/4 x 2 3/4"; RME and RMF, 8 1/2 x 3 3/4". *Recommended for 24-volt operation. *Check wattage rating of equipment before ordering.*



Stock No.	Mfr's Type	Input DC Volts	Output 60 Cycle	Watts		Wt., Lbs.	List	NET EACH
				Cont.	Inter.			
80 P 246	6DME	6	110 v.	30	40	5	\$19.95	13.30
80 P 289	6C-DME	6/12	110 v.	30	40	5	23.50	15.67
80 P 247	6-RMF	6	110 v.	60	80	12	45.00	30.00
81 P 941	6C-RMF	6/12	110 v.	60	80	12	49.50	33.00
80 P 249	12-DME	12	110 v.	40	50	5	19.95	13.30
80 P 266	12T-RME	12	110 v.	90	125	12	42.50	28.33
81 P 942	28-RME*	28	110 v.	80	100	12	57.50	38.34
81 P 943	32-RME	32	110 v.	80	100	12	57.50	38.34
80 P 218	110-RME	110	110 v.	100	150	12	47.50	31.67

PERMA-POWER QUALITY PRODUCTS

Versatile Power Supply and Radio Battery Eliminator



RADIO BATTERY ELIMINATOR

- Ideal for Any 1 1/2-Volt Radio
- Provides Hum-Free Operation
- Universal Sockets—Installs Easily

Model "A". Converts battery-operated radios and other appliances requiring low power for operation from 110 volts AC house current. Uses efficient selenium rectifiers; output is well-filtered direct current.

Maintains rated power under widely varying tube loads. "A" power: 1.35 volts to 1.5 volts DC, depending upon current drain; "B" power: 90 volts DC at 13 milliamperes. Will operate any 4, 5 or 6-tube radio with filaments designed for 1.5-volt battery operation.

Fits easily in back of case of battery radios, as well as in battery compartments of other portables. Extreme compact—2 1/4" high, 6 3/4" wide and 4 1/2" deep. Variety of sockets permit use with most portable radios. U.L. Approved. Shpg. wt., 4 lbs. **80 P 176. List, \$20.95. NET.....12.32**

TRANSISTOR POWER SUPPLY

- Tests Transistor Portable Radios
- Operates Low-Power Circuits
- Highly Accurate, D'Arsonval Meters:

Model A-400. Exceptionally precise, versatile power supply for testing, servicing and operating all types of low power transistorized equipment, including radios, phonographs, etc. Continuously variable output uses autoform control; two voltage ranges for exact setting o voltage required. Continuous current monitoring of single transistor or entire set.

Meters have precision D'Arsonval movement Input Voltage: 115 v., 50-60 cycles. Output Voltage: 0-15 and 0-30 volts DC. Output Current: 0-15 and 0-60 ma. Ripple less than 0.002% 10x6 1/2 x 5 1/4". Shpg. wt., 16 lbs. **80 P 191. NET.....63.2**

Model A-410. As above, but output current 0-20 and 0-200 ma. Shpg. wt., 16 lbs. **80 P 099. NET.....73.0**

Burgess Portable Radio Batteries

LATEST LISTINGS FOR PORTABLE RADIO BATTERIES



Power-packed Burgess batteries are carefully manufactured to assure peak performance. The selection below covers types for nearly all portable radio needs, and Allied's extremely rapid stock turnover assures you of fresh batteries. Where type numbers in last four columns are separated by a diagonal mark, either number may be replaced by the Burgess battery shown at left. If you are not able to find the batteries which you require, give the make and type number of the original batteries, make and model number of your set, and we will supply the Burgess equivalent.



PORTABLE "A" BATTERIES

Stock No.	Burgess Type	Std. Pkg.	List Price	NET EACH		Volts	Size	Shpg. Wt., Lbs.	Replaces			
				Single Lofs	Std. Pkg.				Eveready	RCA	Philco	Zenith
53 J 029	1	12	\$0.20	.14	.13	1 1/2	1 1/2 x 6 3/4 dia.	1/4	935	VS035	C	Z7
53 J 049	2D	1	.90	....	.63	1 1/2	2 9/16 x 1 3/8 x 2 3/4	1/2	720	VS069	....	....
53 J 000	2F	1	1.00	....	.70	1 1/2	2 1/8 x 1 3/8 x 4 1/4	3/4	W353	VS141	....	....
53 J 001	2F4	1	3.55	....	2.49	6	4 x 2 1/8 x 3 7/16	2 1/2	718	VS010	....	....
53 J 063	2R	48	.20	.14	.13	1 1/2	2 5/8 x 1 1/2 dia.	1/4	950	VS036	P912	Z2NL/Z4NL
80 J 641	21R	12	.40	.31	.28	1 1/2	4 1/8 x 1 1/2 dia.	1/2	964	VS236	P77	Z5
53 J 049	37	1	.98	....	.65	1 1/2	6 1/8 x 1 1/8 dia.	1/4	....	....	....	....
53 J 003	4F	6	1.50	1.16	1.05	1 1/2	2 5/8 x 2 5/8 x 4 3/8	1 1/2	742	VS004	P94	Z94
53 J 045	5R	12	.20	.14	.13	1 1/2	2 1/8 x 2 3/8 dia.	1/4	....	....	....	....
80 J 629	6F	1	2.15	....	1.51	1 1/2	4 3/8 x 2 3/4 x 4 1/8	2 1/4	743	VS007	....	Z96
53 J 006	8F	1	2.85	....	1.99	1 1/2	3 2/8 x 2 2/8 x 5 1/2	3	741	....	....	....
53 J 046	8R	24	.60	.46	.42	1 1/2	3 1/8 x 1 3/8 dia.	1/4	960P	VS070	....	Z1/Z955
53 J 047	9R	12	.17	.13	.12	1 1/2	1 6/8 x 3 3/8 dia.	1/4	1015E	....	....	....
53 J 042	B5	6	1.80	1.39	1.26	7/8	3 2/8 x 2 7/8 x 2 7/8	1/2	713	VS129	....	....
53 J 043	C5	6	1.35	1.05	.95	7/8	2 7/8 x 1 5/8 x 3 1/8	3/4	717	VS065	P31	Z750
53 J 070	D3	6	.98	.76	.69	4 1/2	3 7/8 x 1 5/8 x 2 15/16	3/4	726	VS072	....	Z450
80 J 624	F3	6	1.05	.81	.74	4 1/2	4 x 1 7/8 x 4 7/8	1 1/4	736	VS067	P38	Z736
53 J 011	F4PI	6	1.35	1.05	.95	6	2 21/32 x 2 21/32 x 4 1/8	1 1/2	744	VS009	P4F4R	....
53 J 013	G3	6	1.20	.94	.85	4 1/2	4 1/8 x 1 7/8 x 4 1/8	1 1/4	746	VS002	P100	Z83A
53 J 071	T5	3	1.65	1.29	1.17	7/8	2 1/8 x 2 1/8 x 2 29/32	1 1/2	W360	....	....	....
80 J 625	Z4	1	.90	....	.63	6	1 3/8 x 1 3/8 x 2 1/2	1/4	724	VS068	....	....

PORTABLE "B" BATTERIES

80 J 535	A30	2	3.25	2.50	2.27	45	3 9/16 x 2 1/4 x 4 1/8	1 3/4	W359	VS014	P210	Z530
80 J 536	B30	2	3.85	2.97	2.70	45	4 1/8 x 2 1/2 x 5 5/8	2 1/4	484	VS012	P305	Z550
80 J 631	K45	6	3.15	2.43	2.21	6 1/2	2 11/16 x 1 3/8 x 2 1/4	1 1/2	457	VS082	P457	Z457
80 J 546	M30	6	3.15	2.43	2.21	45	5 1/2 x 1 3/8 x 3 3/8	2	482	VS013	P45	Z783
80 J 632	N60	6	4.25	3.28	2.98	90	3 11/16 x 2 1/2 x 3 1/2	1	490	VS090	P132	Z490
80 J 693	N60X	1	4.25	....	2.97	90	1 7/8 x 1 5/8 x 6 7/8	1 1/8	495	....	P190	Z495
80 J 642	P45	6	3.10	2.39	2.17	6 1/2	1 29/32 x 1 3/8 x 3 1/8	3/4	477	VS218	P149	Z477
80 J 645	P45M	6	4.00	3.03	2.75	6 1/2	1 29/32 x 1 3/8 x 3 1/8	3/4	477	VS215	P175	....
80 J 645	P60	6	3.75	2.89	2.63	90	1 29/32 x 1 7/8 x 3 1/2	1	479	VS219	P176	Z90
80 J 646	UX45	1	2.50	....	1.75	45	1 3/8 x 1 1/2 x 2 11/32	1/4	415	VS086	P150	Z415
80 J 692	UX45	1	2.95	....	2.07	6 1/2	1 3/8 x 1 5/8 x 3 3/8	1/2	416	....	P217	....
80 J 539	W30PI	1	3.33	....	2.33	45	2 31/32 x 1 7/8 x 3 29/32	3/4	733	....	....	....
80 J 545	XX30	6	2.45	1.89	1.72	45	2 17/32 x 3 1/2 x 3 21/32	3/4	455	VS055	P105	Z455
80 J 544	XX45	6	3.50	2.70	2.45	6 1/2	2 3/4 x 1 11/16 x 3 3/4	3/4	467	VS016	P67	Z67
80 J 613	XX50	6	3.95	3.05	2.77	75	1 27/32 x 1 3/8 x 6 1/8	1 1/4	437	VS217	P144	Z144/Z437
80 J 588	XX69	1	5.95	....	4.19	103 1/2	1 11/32 x 1 11/32 x 1 23/32	1 1/4	W361	....	....	....
80 J 537	Z30	2	3.95	3.04	2.76	45	3 x 2 5/8 x 4 1/8	1 1/2	738	VS015	P7R30/P104	....

PORTABLE "AB" PACKS

80 J 594	2TXX40	1	5.35	....	3.59	1 1/2, 60	2 13/32 x 1 11/32 x 7 5/32	1 1/2	W370	....	P89	....
80 J 551	4GA42	1	7.75	....	5.40	1 1/2, 63	0 1/8 x 2 1/8 x 4 3/4	4	W366	VS053	P41A4FL	....
80 J 576	4T260	1	5.75	....	4.03	1 1/2, 90	7 9/8 x 2 1/8 x 3 3/4	4	729	VS064	P364	....
80 J 555	6TA60	1	7.15	....	4.80	1 1/2, 90	0 3/32 x 2 1/4 x 4 1/8	4 1/2	W369	VS054	....	....
80 J 584	F6A60	1	7.25	....	5.08	7 1/2, 9, 90	0 9/8 x 2 1/2 x 4 5/8	6	753	VS019	P841A	Z979
80 J 616	F6A60P	1	6.85	....	4.80	9, 90	0 7/8 x 2 1/8 x 4 1 1/2	6 1/2	757	VS058	P60B6F6	Z909
80 J 570	G6B60	1	7.75	....	5.43	9, 90	1 3/8 x 2 1/2 x 3 1/8 x 4 1/2	7	752	VS047	....	Z985
80 J 585	G6M60	1	7.85	....	5.50	7 1/2, 9, 90	1 0 7/8 x 3 1/8 x 4 1/2	6	754	VS018	....	....
80 J 615	T5Z50	1	6.25	....	4.38	6, 7 1/2, 75	8 1/8 x 3 1/8 x 2 3/8	4	755	VS050	P350	....
80 J 675	T5Z50P	1	6.25	....	4.38	7 1/2, 75	8 1/8 x 3 1/8 x 2 3/8	3 1/2	785	VS060	....	Z775
80 J 614	T6Z60	1	6.75	....	4.73	7 1/2, 9, 90	2 3/8 x 8 1/8 x 3 1/8	4 1/2	756	VS057W	P361/P363/P371	....
80 J 643	T6Z60P	1	6.85	....	4.80	9, 90	2 3/8 x 8 1/8 x 3 1/8	4 1/2	727	VS059	....	Z962

PORTABLE BATTERIES FOR TRANSISTOR RADIOS

53 J 089	130	12	.20	.15	.14	1 1/2	1 5/8 x 6 3/4 dia.	1/4	635	VS035	C/1311	Z7
80 J 684	2N6	1	1.85	....	1.30	9	2 3/4 x 1 5/8 x 1 3/8	1/4	246	VS305	P178	....
80 J 664	2U6	1	1.65	....	1.16	9	1 7/8 x 3 3/8 x 1 1/4	1/4	216	....	....	....
53 J 096	Z23	12	1.59	1.22	1.11	4 1/2	1 3/8 x 1 3/8 x 2 3/4	3/8	....	....	....	....
78 J 243	7	24	.125	.09	.08	1 1/2	1 3/4 x 1 3/2 dia.	1/8	912	VS074	K	....
53 J 090	230	48	.25	.17	.155	1 1/2	2 25/8 x 1 1/2 dia.	1/5	A100	VS336	P920	....
80 J 683	4D4	1	3.95	....	2.76	6	7 5/8 x 2 1/2 x 2 1 1/2	2 1/2	274	....	....	....
53 J 091	930	12	.17	.13	.12	1 1/2	1 31/32 x 3 3/8 dia.	1/10	1015E	VS034	P15	Z8
80 J 690	A4	1	1.00	....	.69	6	2 11/32 x 1 3/8 x 1 1/2	1/4	....	....	....	....
80 J 694	C6X	1	1.60	....	1.10	9	2 5/8 x 1 1/2 x 0 1/8	3/4	....	....	....	....
53 J 087	D5	1	1.45	....	1.00	7 1/2	2 9/8 x 2 x 2 3/8	7/8	707	VS315	P26	Z707
80 J 666	D6	1	1.65	....	1.16	9	3 5/8 x 2 x 2 3/8	1	276	VS306	P88	Z276
80 J 691	D6PI	1	1.65	....	1.16	3, 6, 9	7 2/3 x 1 1/8 x 2 1 3/8	1 1/2	2506	VS301	....	....
53 J 093	D6S	1	1.50	....	1.05	9	2 1/4 x 1 1/4 x 2 7/8	1 1/8	....	....	....	....
53 J 092	M6	1	1.50	....	1.05	9	1 13/16 x 1 13/16 x 2 1/8	3/5	266	VS322	....	....
80 J 689	NE	48	.125	.09	.08	1 1/2	1 11/8 x 7/16 dia.	1/4	....	....	....	....
53 J 086	P6	1	1.10	....	.77	9	3 1/2 x 3 1/2 x 1 31/32	1/4	....	....	....	....
53 J 088	P6M	1	1.35	....	.93	9	3 1/2 x 3 1/2 x 1 63/64	1/8	226	VS300	P91	....
80 J 679	XX9	1	1.35	....	.95	9, 13 1/2	1 9/32 x 2 9/32 x 2 17/32	1/4	239	VS304	....	....

Burgess Batteries



BATTERIES FOR ALL PURPOSES

Allied's rapid turnover stock always assures you of factory-freshness. If you do not find the batteries you require, give make and type of batteries, make and model of set, and we will supply the equivalents.



"FEATHERWEIGHT" "B" BATTERIES—INCLUDING HEARING AID TYPES

Stock No.	Burgess Type	Std. Pkg.	List Price	NET EA. Std. Pkg.	Volts	Size	Shpg. Wt. oz.	Zenith	Replaces		Acous-tion
									Sono-tone	Ever-ready	
53 J 072	XX15	1	\$1.80	1.27	22½	1 1/2 x 1 1/2 x 3 3/8"	4			425 P	22EW
53 J 073	XX22	1	2.05	1.44	33	2 1/2 x 3 1/2 x 3 1/2"	6			433 P	33EW
53 J 074	XX30P1	1	2.50	1.75	45	2 1/2 x 3 1/2 x 4 1/2"	12	Z 30	230	455 P	45EW
53 J 094	K-10	1	1.50	1.05	15	1 1/4 x 7/8 x 1 1/2"	2			417	
53 J 095	K-15	1	1.65	1.16	22½	1 1/4 x 7/8 x 2 1/2"	2			420	
53 J 075	K20	1	1.95	1.37	30	2 3/8 x 1 1/2 x 1 1/4"	3			430	
53 J 076	U10	1	1.15	.81	15	1 3/8 x 1 1/4"	2		211	411	711G
53 J 079	U15	1	1.50	1.05	22½	1 3/8 x 1 1/2"	2	Z 12	212	412	712H
53 J 078	U20	1	1.75	1.23	30	1 3/8 x 1 1/2 x 2 1/2"	2	Z 13	213	413	713G
53 J 080	V10	1	1.15	.81	15	1 3/8 x 1 1/2 x 1 3/8"	3		25	504	715G
53 J 081	V15	1	1.50	1.05	22½	1 3/8 x 1 1/2 x 1 3/8"	3	Z 6	26	505	722G
53 J 079	Y20	1	1.85	1.30	30	1 3/8 x 1 1/2 x 1 3/8"	3		Z7	506	
53 J 084	Y20S	1	1.85	1.30	30	1 3/8 x 1 1/2 x 2 1/8"	3			507	

STANDARD DRY BATTERIES

Suitable for all radio and laboratory requirements. Burgess quality construction and insulators allow use of very active ingredients, providing maximum useful life. Letters following battery type numbers denote terminals: P.I.—plug-in terminals; S.C.—spring-clip terminals. All others have screw terminals.



FLASHLIGHT BATTERIES

Top-quality cells for all popular sizes of flashlights. Chrome-protected for long service. Type 2 cells are sealed in steel and fully leakproof. All plastic and steel also protected against leakage; sealed in plastic and steel. Type 1—for baby tubular flashlights; Type 2—for standard flashlights; Type 2—for standard penlights; Type 7—for slim penlights; Type N—for miniature and novelty lights.



"A" BATTERIES

Stock No.	Burgess Type	Volts	Size	Shpg. Wt. Lbs.	Std. Pkg.	NET EACH	
						Sgl. Lots	Std. Pkg.
80 J 621	2BPP	1½	1 1/8 x 3/8 x 2 1/16"	1/2	6	1.16	1.05
80 J 017	2F2H	3	2 5/8 x 2 3/8 x 4 1/8"	1½	5	1.09	.99
53 J 037	2R2BP	3	5 3/8 x 1 1/2 x 4 3/8"	1½	1	.....	2.23
53 J 036	2F2P	1½	2 1/4 x 1 1/8 x 4 1/2"	1	5	.....	.87
80 J 604	2Z2PI	3	1 5/8 x 1 5/8 x 2 1 3/8"	1/4	12	.67	.61
80 J 038	422	3	2 5/8 x 2 3/8 x 1 1/4"	1/4	10	.56	.51
53 J 035	432	4½	2 1/4 x 1 3/8 x 2 1/2"	1/4	10	.65	.59
53 J 023	44	1½	1 1/2 x 3/4 dia. x 4 3/8"	3/4	1	.....	.95
53 J 085	532	4½	2 1/8 x 1 1/8 x 2 3/8"	1/4	1	.....	.62
80 J 591	B2BP	3	1 5/8 x 1 1/8 x 2 1/16"	1/4	6	1.03	.94
53 J 018	F2BP	3	2 1/2 x 1 1/8 x 4 1/8"	1	5	.....	.87
53 J 016	F4BP	6	2 5/8 x 2 3/8 x 4"	1½	1	.....	.79

"B" BATTERIES

Stock No.	Burgess Type	Volts	Size	Shpg. Wt. Lbs.	Std. Pkg.	NET EACH	
						Sgl. Lots	Std. Pkg.
80 J 504	10308PT	45	8 1/2 x 4 1/2 x 7 3/8"	11 1/2	1	.....	4.40
80 J 505	10308SC	45	8 1/2 x 4 1/2 x 7 3/8"	11 1/2	1	.....	4.40
80 J 501	21308SC	45	8 1/2 x 4 1/2 x 9 1/8"	13	1	.....	4.88
80 J 507	2308SC	45	8 3/8 x 2 1/2 x 7 1/8"	8	1	.....	3.50
80 J 510	4156	22½	3 1/2 x 2 1/4 x 2 3/8"	1	1	.....	1.61
80 J 511	5156PI	22½	4 7/8 x 2 3/8 x 2 5/8"	1 3/4	1	.....	2.32
80 J 512	5156SC	22½	4 1/8 x 2 1/2 x 2 3/4"	1 3/4	5	2.55	2.32
80 J 508	5308	45	4 1/2 x 2 1/2 x 5 1/8"	3	1	.....	3.05
80 J 626	U-200	300	2 3/4 x 2 3/8 x 3 3/8"	1	1	.....	7.70
53 J 097	D30	45	5 1/2 x 2 1/2 x 7 1/8"	4 1/2	1	.....	2.98
53 J 098	Z30T	45	3 x 2 1/2 x 4 1/8"	3 1/2	1	.....	2.62
80 J 519	W30BPX	45	3 x 1 1/2 x 3 3/8"	3 1/2	1	.....	2.22
80 J 524	Z30NX	45	3 1/2 x 1 1/2 x 4 1/8"	3 1/2	5	2.70	2.55
80 J 634	Z60BP	90	3 3/4 x 2 1/2 x 5 1/8"	2 3/4	1	.....	8.90

"C" BATTERIES

Stock No.	Burgess Type	Volts	Size	Shpg. Wt. Lbs.	Std. Pkg.	NET EACH	
						Sgl. Lots	Std. Pkg.
80 J 593	2370	4½	3 1/8 x 1 3/8 x 2 1/8"	3/4	5	1.17	1.06
80 J 513	2370P1	4½	4 1/8 x 1 3/8 x 2 3/8"	1	5	1.26	1.16
80 J 515	5360	4½	2 1/2 x 2 1/2 x 2 1/2"	1	10	.80	.73
80 J 514	5540	7½	4 x 7/8 x 2 3/4"	1/2	5	1.34	1.22
80 J 623	A9BP	13½	2 3/8 x 2 3/8 x 2 1/2"	1/2	1	.....	2.94
80 J 516	B5P	7½	4 5/8 x 1 1/2 x 2 3/8"	3/4	1	.....	1.94
80 J 521	W5BP	7½	2 3/8 x 2 3/8 x 1 3/4"	1/4	6	1.47	1.34

SPECIAL PURPOSE BATTERIES

TAPE RECORDER BATTERIES

Extremely compact, highly dependable batteries. Designed specifically for use in pocket tape recorders. *Flat contact. †Snap type.

Stock No.	Type No.	Volts	Size	Wt. Lbs.	NET EACH
53 J 099	2X62X†	1½, 9	2 1/2 x 1 1/2 x 2 1/2"	1/2	1.82
53 J 100	2X7†	10½	2 1/2 x 1 1/2 x 2 1/2"	1/2	1.82
53 J 101	3X7*†	10½	1 3/8 x 1 3/8 x 3 3/8"	1/2	2.00

CAMERA MOTOR AND SOUND PROJECTION BATTERY

External power source for operating motion picture cameras as well as sound projection equipment. Spring-clip terminals.

Stock No.	Type No.	Volts	Size	Wt. Lbs.	Std. Pkg.	NET EACH
53 J 102	10338	49½	8 1/4 x 4 3/8 x 7 1/16"	12 1/2	3	6.60

Stock No.	Burgess Type	Volts	Size	Wt. Oz.	Std. Pkg.	LIST	NET EACH	
							Sgl. Lots	Std. Pkg.
53 J 029	1	1½	1 1/8 x 6 3/8"	4	12	.20	.14	.13
53 J 009	2	2	2 3/8 x 1 3/8"	6	50	.20	.14	.13
78 J 243	7	1½	1 3/8 x 1 3/8"	2	12	1.25	.09	.08
53 J 082	N	1½	1 1/8 x 7/8"	3	24	1.25	.09	.08
53 J 031	Z	1½	1 3/8 x 3/8"	3	12	1.25	.09	.08

IGNITION, TELEPHONE AND ALARM BATTERIES

Designed for emergency illumination, portable lighting, alarm systems. Used by railroads, police, fire departments and emergency crews. Dependable, leakproof metal container. Types 4F2H and 4FH recommended for general ignition, telephone and lantern service, etc.

Stock No.	Burgess Type	Volts	Size	Shpg. Wt. Lbs.	Std. Pkg.	NET EACH	
						Sgl. Lots	Std. Pkg.
53 J 024	4FH	1½	2 5/8 x 2 3/8 x 4"	1½	12	.84	.76
53 J 027	4F2H	3	3 3/8 x 2 1/8 x 5 1/8"	2 3/4	1	.....	1.32
53 J 025	4F4H	6	8 5/8 x 2 1/8 x 5 1/8"	6 1/4	1	.....	3.17
80 J 601	4F5H	7½	7 3/8 x 3 3/8 x 5 1/8"	7 1/2	1	.....	4.07
53 J 033	4F6H	9	8 1/2 x 3 3/8 x 5 1/8"	9	1	.....	4.73
80 J 638	6-ign.	1½	2 1/2 x 6 3/8"	2	12	.84	.76
80 J 639	6-Tel.	1½	2 1/2 x 6 3/8"	2 1/2	12	.84	.76
80 J 644	6-Ind.	1½	2 1/2 x 6 3/8"	2	12	.97	.88
80 J 640	S-6nd	6	10 1/2 x 2 3/8 x 7 1/8"	8 1/2	6	3.49	3.17

LANTERN BATTERIES

For use with windproof lanterns. Type 4FH has positive coiling spring contacts—a favorite of railroadmen. Type TW1S for underwater use.

Stock No.	Burgess Type	Volts	Size	Wt. Lbs.	Std. Pkg.	NET EACH	
						Sgl. Lots	Std. Pkg.
53 J 027	4F2H	3	3 3/8 x 2 1/8 x 5 1/8"	2 3/4	1	.....	1.32
53 J 028	F4H	6	2 3/8 x 2 3/8 x 4 3/8"	1 1/2	12	.87	.79
53 J 016	F4BP	6	2 3/8 x 2 3/8 x 4 3/8"	1 1/2	1	.....	.79
53 J 018	F4SC	6	2 3/8 x 2 3/8 x 4 3/8"	1 1/2	1	.....	.79
80 J 680	TW1	6	5 3/8 x 2 3/8 x 4 1/8"	3 1/2	1	.....	1.63
53 J 104	TW1S	6	5 3/8 x 2 3/8 x 4 1/8"	3 1/4	1	.....	1.82

PHOTO-FLASH BATTERIES

Designed for high initial current discharge.

Stock No.	Type No.	Volts	Size	Std. Pkg.	Shpg. Wt.	NET EACH		Replaces Eveready
						Single	Pkg.	
53 J 040	1208	1½	1 1/8 x 1"	12	4 oz.	.14	.13	835
53 J 039	2208	1½	2 2/8 x 1 1/8"	12	6 oz.	.14	.13	850
53 J 041	9208	1½	1 3/8 x 3/8"	24	4 oz.	.10	.09	815
53 J 070	D3	4½	3 1/8 x 1 5/8 x 2 1/8"	3	3 lb.	.76	.69	728
80 J 631	K45	6 3/4	2 1/8 x 1 1/8 x 2 3/8"	6	1/2 lb.	2.43	2.21	457
80 J 546	M30	45	2 1/8 x 1 1/8 x 3 3/8"	6	2 lbs.	2.43	2.21	482
80 J 681	N150	225	3 3/8 x 2 3/8 x 4 3/8"	1	1 1/2 lbs.	.....	5.56	492
80 J 632	N60	90	3 1/8 x 1 1/8 x 3 1/8"	6	1 lb.	3.28	2.98	490
53 J 076	U10	15	1 3/8 x 1 1/8 x 1 7/8"	1	2 oz.	.....	.81	411
53 J 044	U15PF8	22½	1 3/8 x 3/8 x 1 1 3/8"	1	4 oz.	.....	1.05	412
80 J 678	U160	240	2 5/8 x 1 1/8 x 1 1 3/8"	1	3/4 lb.	.....	5.56	491
53 J 078	U20	30	1 3/8 x 2 1/8"	1	2 oz.	.....	1.23	413
80 J 626	U200	300	2 3/8 x 2 3/8 x 3 3/8"	1	1 lb.	.....	7.70	413
80 J 682	U320	510	2 1/8 x 1 1/8 x 2 3/8"	1	2 1/2 lbs.	.....	11.16	497
80 J 677	XX150	225	4 x 2 1/8 x 4 1/4"	1	2 1/2 lbs.	.....	6.96	422
80 J 544	XX45	67½	2 3/8 x 1 1/8 x 3 3/8"	6	3/4 lb.	2.70	2.45	467
53 J 080	Y10PF	15	1 3/8 x 1 1/8 x 1 1 3/8"	1	3 oz.	.....	.81	504
53 J 081	Y15PF	22½	1 3/8 x 1 1/8 x 1 1 3/8"	1	3 oz.	.....	1.05	505

FARM RADIO PACKS

Stock No.	Type	Volts	Size	Wt. Lbs.	NET EACH
80 JX 572	17GD60	1½, 90	1 1/2, 90	15	7.21
80 J 635	4SD60	1½, 90	10 1/8 x 4 3/8 x 6 3/8"	20	7.21
80 J 636	S6D60	7½, 9, 90	9 7/8 x 4 1/8 x 7 1/8"	17	8.75

RCA Batteries



RCA PORTABLE, TRANSISTOR & INDUSTRIAL BATTERIES

RCA batteries are scientifically designed to give maximum performance. The extensive selection of long-life RCA batteries in the listing below covers types for hundreds of industrial applications and virtually all portable radios in use today. If you cannot determine which batteries you require, give us the make and type number of the original batteries, plus the make and model number of your set. Because of our rapid stock turnover, you can always be sure of fresh batteries when you order from Allied. †Sealed in steel containers. §Other voltage taps: 1½, 3, 4½, 6. ‡Other voltage taps: 3, 4½, 6, 9, 10½, 16½.

PORTABLE "A" BATTERIES

Stock No.	RCA Type	Std. Pkg.	List Price	NET EACH		Volts	Size	Wt., Lbs.	Interchangeable With			
				Single Lts.	Std. Pkg.				Burgess	Eveready	Philco	Zenith
80 J 900	VS002	6	1.20	.94	.85	4½	41½x13½x4"	1¼	G3	746	P100	Z83A
80 J 901	VS004	6	1.50	1.16	1.05	1½	41½x2½x2½"	1½	4F	742	P94	Z94
80 J 902	VS009	6	1.35	1.05	.95	6	31½x25¼x2½"	1½	F4P1	744	P4F4R	
80 J 947	VS034	12	1.25	.09	.08	1½	9½x2"	¼	Z	915	AA	Z8
80 J 948	VS035†	12	.20	.135	.125	1½	1x11½"	¼	1	935	C	Z7
80 J 903	VS036†	48	.20	1.35	1.25	1½	15½x2½"	½	2R	950	P912	Z2NL
80 J 962	VS065	12	1.35	1.05	.95	7½	31½x2½x5"	1¼	C5	717	P31	Z750
80 J 963	VS067	6	1.05	.81	.74	4½	4x1½x4½"	1	F3	736	P38	Z736
80 J 965	VS068	24	.90	.69	.63	6	13½x13½x2½"	¼	Z4	724		
80 J 966	VS069	12	.90	.69	.63	1½	29½x1½x27½"	¾	2D	720		
80 J 967	VS072	12	.98	.76	.69	4½	31½x1½x21½"	1	D3	726		Z450
80 J 904	VS073	48	1.25	.09	.08	1½	7½x1¾"	⅛	N	W463		
80 J 897	VS074	12	1.25	.09	.08	1½	7½x1¾"	2	7	912	K	
80 J 912	VS236†	12	.40	.31	.28	1½	1½x4½"	½	21R	964	P77	Z5
80 J 294	VS315	6	1.45	1.10	1.00	7½	29½x2½x21½"	1	D5	707	P26	Z707

PORTABLE "B" BATTERIES

80 J 905	VS012	6	3.85	2.97	2.70	45	41½x2½x5½"	3	B30	484	P305	Z550
80 J 906	VS013	6	3.15	2.43	2.21	45	39½x11½x5½"	2	M30	482	P45	Z783
80 J 907	VS014	6	3.25	2.50	2.27	45	37½x2½x4x9½"	1¾	A30	W359	P210	Z530
80 J 908	VS015	6	3.95	3.04	2.76	22½-45	3x2½x4"	1½	Z30	738	P104	
80 J 909	VS016	12	3.50	2.70	2.45	67½	23¼x1½x33¼"	1	XX45	467	P67	Z67
80 J 910	VS055	12	2.70	2.08	1.89	45	21½x11x31½"	¾	XX30	455	P105	Z455
80 J 889	VS082	12	3.15	2.43	2.21	67½	2½x1½x31½"	¾	K45	457		Z457
80 J 913	VS084	12	1.50	1.16	1.05	22½	1x½x2"	¼	U15	412	P612	Z12
80 J 969	VS086	12	2.50	1.93	1.75	45	11½x9½x39½"	¼	U30	415	P150	Z415
80 J 911	VS090	12	4.25	3.28	2.98	90	31½x1½x33¼"	1	N60	490	P132	Z490
80 J 898	VS215	24	3.50	2.70	2.45	67½	129½x1x57½"	⅝	P45M	477	P175	Z477
80 J 968	VS217	12	3.95	3.05	2.77	75	11½x11½x6¼"	1	XX50	437	P144	Z437
80 J 999	VS218	12	3.10	2.39	2.17	67½	57½x1x129½"	1	P45	477	P149	Z477
80 J 984	VS219	12	3.75	2.89	2.63	90	1½x21½x27½"	1	P60	479	P176	Z97
80 J 297	VS316	6	4.25	3.27	2.97	90	11½x11½x27½"	1	N60X	495	P190	
80 J 296	VS318	6	2.95	2.28	2.07	67½	12½x9½x3½"	1		416		

PORTABLE "AB" BATTERIES

80 J 916	VS019	6	7.25	5.59	5.08	7½-9-90	43¼x2½x4x9½"	6	F6A60	753	P841A	Z979
80 J 920	VS047	6	7.75	5.97	5.43	9-90	13½x2½x4x9½"	6	G6B60	752	P60B6F6	Z985
80 J 921	VS050	6	6.25	4.82	4.38	6-7½-75	89½x27½x31½"	4	T5Z50	755	P350	
80 J 933	VS057W	6	6.75	5.20	4.73	7½-9-90	81½x2½x6x3¾"	4	T6Z60	756	P371	
80 J 928	VS058	6	6.85	5.28	4.80	9-90	9½x2½x4x3½"	5	F6A60P	757		Z909
80 J 888	VS059	6	6.85	5.28	4.80	9-90	81½x2½x6x3¾"	5	T6Z60P	727		Z962
80 J 896	VS060	6	6.25	4.82	4.38	7½-75	31½x2½x6x8½"	3½	T5Z50P	785		Z775

TRANSISTOR BATTERIES

80 J 961	VS300	24	1.75	1.35	1.23	9	13½x3½"	¼	P6	226	P91	
80 J 991	VS301	12	1.65	1.28	1.16	3, 6, 9	23¼x1½x8"	1¼	D6P1	2506		
80 J 837	VS304	12	1.35	1.05	.95	9, 13½	23¼x1½x1¾"	¼	XX9	239		
80 J 838	VS305	12	1.85	1.43	1.30	9	23¼x1½x1¾"	¼	2N6	246	P178	
80 J 839	VS306	6	1.65	1.28	1.16	9	35½x2½x29½"	1	D6	276	P88	Z276
80 J 840	VS307	12	1.44	1.11	1.01	5½	19½x3½"	⅝				
80 J 841	VS308	12	1.28	.99	.90	4	11½x3½"	⅝				
80 J 842	VS309	12	1.61	1.24	1.13	9	129½x3½"	⅝				
80 J 843	VS310	12	1.29	1.00	.91	5½	11½x3½"	⅝				
80 J 844	VS311	12	1.10	.85	.77	4	11½x3½"	⅝				
80 J 845	VS312	12	2.75	2.04	1.85	8	1x11½"	⅝	2U6	216		
80 J 846	VS313	20	.75	.56	.51	1.4	9½x1½"	⅝	E9			
80 J 847	VS314	12	1.10	.85	.77	9	1x11½"	⅝		226		
80 J 298	VS321	12	2.75	2.12	1.93	4	21½x1½x81½"	3		2731		
80 J 299	VS322	12	1.50	1.15	1.05	9	12½x4x21½"	½	M6	266		
80 J 095	VS336	48	.25	.17	.155	1½	11½x11½x27½"	⅝	230	A-100		
80 J 949	VS400	10	2.65	1.98	1.80	4	13½x11½"	¼		E233		

INDUSTRIAL BATTERIES

80 J 870	VS006C	12	1.15	.84	.765	1½	25½x6½"	2¼	GL6			
80 J 871	VS026	3	5.00	3.85	3.50	22½-45	81½x3½x6x7¾"	7½	2308PI	W365P	P30D	3544
80 J 937	VS028	5	1.05	.80	.73	4½	27½x7½x2½"	½	5360	781		
80 J 938	VS029	10	1.75	1.34	1.22	7½§	21½x11½x3¾"	1½	5540	773	P5B	
80 J 942	VS039	3	4.75	3.49	3.17	6	10½x27½x7¾"	11	S461	1461	P64	
80 J 992	VS040C	10	1.19	.87	.79	6	21½x21½x4½"	1¼	F4H		P4F	Z107G
80 J 950	VS040S	10	1.19	.87	.79	6	21½x21½x4½"	1¼	F4BP			
80 J 993	VS070	25	.60	.46	.42	1½	13½x4½"	⅝	8R	1060		Z1
80 J 890	VS083	12	1.15	.89	.81	15	1½x2½x17½"	⅝	U10	411		Z11
80 J 914	VS085	12	1.75	1.35	1.23	30	29½x9½x1½"	¼	U20	413		Z13
80 J 989	VS093	3	11.00	8.47	7.70	300	25½x23½x31½"	1¼	U200	493		
80 J 986	VS101	8	1.15	.87	.79	1½	25½x1½x49½"	1	22FBP	W354		
80 J 951	VS102	6	2.15	1.77	1.61	22½	33½x2½x2¾"	1¼	4156	763		
80 J 957	VS106	10	1.15	.84	.765	1½	21½x21½x4½"	1½	4FH	735		
80 J 952	VS112	5	4.35	3.36	3.05	22½-45	57½x2½x4½"	3¼	5308	W376		
80 J 988	VS114	5	3.50	2.70	2.45	22½-45	3x17½x41½"	2	Z30NX	W350		
80 J 873	VS127W	3	6.30	4.85	4.41	22½-45	8x4x7¾"	11	10308XC			
80 J 959	VS130	8	1.50	1.17	1.06	1½-3-4½	31½x1½x4x3"	1	370ST	761T		
80 J 960	VS131	5	3.30	2.55	2.32	22½	4½x2½x35½"	2	5156SC	778		
80 J 987	VS133	5	.90	.68	.62	4½	3½x1½x2½"	½	532	703		
80 J 892	VS134	10	.75	.56	.51	3	17½x3½x29½"	½	422	750		

Batteries, Bias Cells, Clips & Plugs

MALLORY MERCURY BATTERIES & BIAS CELLS

MERCURY TRANSISTOR RADIO BATTERIES



Mallory mercury batteries offer characteristics which assure peak performance of portable radios. They feature uniform discharge voltage, exceptionally long storage life, and are unaffected by extremes of temperature and humidity. They are ideal as secondary voltage standards,

and for hundreds of other applications where operating voltage is critical. Directly interchangeable with many conventional types. As new mercury batteries become available from the manufacturer, Allied will stock them. Av. shpg. wt., 2 oz.



Stock No.	Mallory Type	Std. Pkg.	NET EACH		Volts	Size (Dia. x Ht.)	Interchangeable With				
			Single Lots	Std. Pkg.			Eveready	Burgess	RCA	Philco	Zenith
80 J 727	ZM-9	2	.56	.51	1 1/2	1 1/2 x 1 1/2"	E9	Z	VS-034	AA	Z8 or Z9
80 J 749	DM-9N	2	.59	.54	1 1/2	1 1/2 x 1 1/2"					
80 J 787	TR-145R	2	1.60	1.45	7 1/2	2 1/2 x 1 3/4"					
80 J 785	TR-146R	12	2.04	1.85	9	1 x 1 1/2 x 1 1/2"	E146	2U6	VS-312		
80 J 849	TR-233R	10	1.98	1.80	4	1 1/4 x 1 3/16"	E233		VS-400	P696	
80 J 788	TR-246R	10	2.20	2.00	9	1 3/16 x 2 1/16"	246	2N6	VS-305	P178	
80 J 784	RM-42R	10	2.48	2.25	1 1/2	1 1/2 x 2 3/8"					

MERCURY "A" BATTERIES

Extremely long shelf life and uniform discharge voltage. Resistant to humidity. †With 1/2" tab on positive terminal. Shpg. wt., 2 oz.

Stock No.	Mfr's Type	Size (Dia. x Ht.)	Volts	Std. Pkg.	NET EACH	
					Single	Std. Pkg.
80 J 878	RM1R	5/8 x 3/8"	1.34	4	.42	.38
80 J 879	RM3R	1 x 3/8"	1.34	4	.59	.54
80 J 880	RM4R	1 1/2 x 3/8"	1.34	4	.76	.69
80 J 881	RM12R	5/8 x 1 1/8"	1.34	2	.90	.82
80 J 740	RM4RT†	1 3/8 x 1 1/8"	1.34	4	.84	.76
80 J 742	RM42RT†	1 3/4 x 2 3/8"	1.34	10	2.55	2.32
80 J 743	RM400R	7/16 x 1/2"	1.34	6	.28	.25
80 J 884	RM401R	5/8 x 1 1/8"	1.34	2	.37	.34
80 J 744	RM450R	7/16 x 3/8"	1.34	4	.37	.33
80 J 882	RM502R	1 1/2 x 1 1/8"	1.34	2	.68	.62
80 J 147	RM520R	1 5/8 x 1/4"	1.34	4	.16	.15
80 J 883	RM625RT†	5/8 x 1 1/8"	1.34	4	.40	.36
80 J 745	RM601R	5/8 x 1 1/8"	1.34	2	.56	.51
80 J 746	RM625R	5/8 x 1/4"	1.34	4	.33	.30
80 J 747	RM630R	5/8 x 1/4"	1.34	4	.30	.27
80 J 748	RM640R	5/8 x 3/8"	1.34	4	.35	.32
80 J 148	RM675R	2 3/8 x 3/4"	1.34	6	.29	.26

BIAS CELL CLIPS

Clips to hold grid bias cells listed at right. 1 1/2" tinned leads. Cells easily inserted; removed. 2 oz.



Stock No.	Mfr's Type	Used With	Capacity	List	EACH
9 M 952	GB-15	BC-3 or BC-5	2-cell	40c	26c
9 M 953	GB-16		4-cell	40c	
9 M 954	GB-17		1-cell	40c	

WILLARD RECHARGEABLE BATTERIES

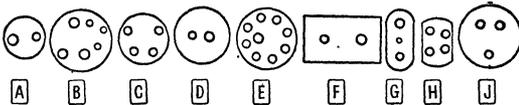
Type 25-2. For Portable Radios. Supplies 2 volts for 21 ampere-hours. Plug-in terminals. Original equipment in GE Models 250 and 260. Size (HWD): 6x2 1/2 x 2 3/4". Shpg. wt., 3 1/4 lbs.
98 JU 023. List, \$11.15. NET..... 8.08



Type ER 6-2B. For Photo-Flash. Supplies 2 volts for 6 ampere-hours. 125 to 250 flashes per cycle of charge. Gives split-second shutter synchronization. Plain post terminals. 1 1/2 x 2 3/8 x 4 1/4". Wt., 1 1/2 lbs.
98 JU 024. List, \$7.55. NET..... 5.52

Type ER-34-2. For Portable Radios. Supplies 2 volts for 34 ampere-hours. Battery has plain posts. 4 1/2 x 4 1/4 x 3 1/8". Wt., 5 1/4 lbs.
98 JU 025. List, \$14.85. NET..... 10.78

PLUGS FOR BATTERIES



*With 3 small prongs only. †5 prongs, 5 Fahnestock clips. \$3 prongs. Av. shpg. wt., 1 oz. 2 per pkg.

Stock No.	Fig.	For Burgess Batt.	For RCA Battery	Per Pkg.
54 J 021	A	2F4, F4P1	VS009	6¢
54 J 022	B*	XX15, XX22, XX30P1		14¢
54 J 023	C	6TA60, 4SD60, 4TZ60, 17GD60	VS054	8¢
54 J 024	D	2F, 4F, 6F, 8F, 2D, 3R	VS004, VS069, VS070, VS141	2¢
54 J 026	F	D3, F3, G3	VS067, VS072	10¢
54 J 027	G	B-5, C-5, T-5	VS065	7¢
54 J 028	H	2TX X40, 4GA42		14¢
54 J 031	E	FOA60, G6M60, 50D60, TSZ50, TOZ60	VS018, VS019, VS050, VS057W	10¢
54 J 034	B	A30, B30, M30, W30P1, Z30	VS012, VS013, VS014, VS015	14¢
54 J 036	†	5156P1		40¢
54 J 035	‡	2370P1	VS030	30¢
54 J 067	.....	Male snap-on		6¢
54 J 068	.....	Female snap-on		7¢
54 J 037	.....	U30	VS086	86¢
54 J 269	J	10308P1, 21308P1, 2308P1	VS026	9¢

MERCURY TRANSISTOR POWERPAKS

The batteries listed below are ideal for original or replacement use in transistor radios. Mallory Mercury Transistor Powerpaks are widely used by designers and manufacturers of all types of electronic equipment. Their excellent performance has led to their use in geophysical, space-ceiver, radiation and recording instruments, and in many other electronic applications. Av. shpg. wt., 3 oz.

Stock No.	Mfr's Type	Size	Volts	Std. Pkg.	NET EACH	
					Single	Std. Pkg.
80 J 789	TR-113R	2 1/2 x 2 3/8"	4.0	2	1.42	1.29
80 J 790	TR-114R	2 1/2 x 1"	5.0	2	1.65	1.50
80 J 728	TR-152R	2 1/2 x 1 9/16"	6.5	2	1.80	1.64
80 J 729	TR-132R	2 1/2 x 1 9/16"	2.5	2	.92	.84
80 J 730	TR-133R	2 1/2 x 1 3/8"	4.0	2	1.30	1.18
80 J 731	TR-134R	2 1/2 x 2 1/8"	5.0	2	1.68	1.53
80 J 732	TR-135R	2 1/2 x 3 7/8"	6.5	2	2.04	1.85
80 J 733	TR-136R	2 1/2 x 3 7/8"	8.0	2	2.53	2.30
80 J 734	TR-140R	1 x 1/2 x 1 7/8"	1.3	2	1.23	1.12
80 J 735	TR-152R	1/2 x 1 1/8"	2.5	2	.79	.72
80 J 791	TR-153R	1/2 x 1 2 3/8"	4.0	2	1.01	.92
80 J 792	TR-162R	2 1/2 x 2 3/8"	4.0	2	.96	.87
80 J 793	TR-163R	2 1/2 x 1 1/8"	4.0	2	1.21	1.10
80 J 794	TR-164R	2 1/2 x 1 1/8"	5.0	2	1.49	1.35
80 J 795	TR-165R	2 1/2 x 2 3/8"	6.5	2	1.80	1.64

GRID BIAS CELLS

For biasing first audio amplifier tubes. No by-pass to ground needed. Stack with bias cell clips listed at left. Size, 1 1/4 x 3/8". Shpg. wt., 2 oz.



Stock No.	Mfr's Type	Volts	List	NET EACH
9 M 948	BC-3	1 1/2	60c	40c
9 M 949	BC-5	1 3/4	60c	

EVEREADY BATTERIES

No. 6 Dry Cell. A standard, 1 1/2 volt general purpose battery which may be counted on to give thoroughly dependable and efficient performance at all times. Long-lasting. Ideal for industrial use, annunciator and signal systems, battery-operated ignition systems, farm lanterns, etc. Size, 6 5/8 x 2 5/8" diameter. Equipped with screw terminals. Case is insulated. Shpg. wt., 2 lbs.
80 J 757. NET EACH..... 84c
Lots of 12, EACH..... 76¢



Type 493. Compact, 300-volt power source. Designed for low-drain, high-voltage applications such as: Geiger counters, photoflash units (gas discharge type), multiplier-photo cells, small lightweight insulation testers. Size, 2 1/2 x 6 x 3 3/8". Shpg. wt., 1 1/4 lbs.
80 J 759. NET EACH..... 7.70

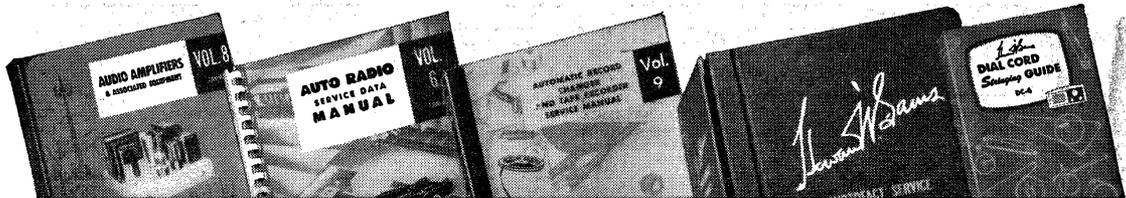
KEYSTONE BATTERY HOLDERS

Battery holders for transistor assemblies, radios, meters, model airplanes, etc. Feature snap-clips, moisture-proof fibre washers, spring temper aluminum alloy, nickel-plated eyelets, coated terminals for easy soldering, and mounting holes. Av. shpg. wt., 3 oz.



No.	Type	Holds	Burgess	Mallory	Eveready	NET
54 J 042	139	1	Z, 9R, Y15	RM12R, TR133R, RM502R, ZM-9	E-9, E-12,	.23
54 J 043	140	2			E133, E502,	.38
54 J 044	171	3			915, 1015E,	.49
54 J 045	182	4		505	.64	
54 J 046	173	1	1	TR233R	E233, 635,	.30
54 J 047	174	2			935	.38
54 J 048	137	1	7		912	.23
54 J 049	138	2				.38
54 J 055	154	1	N	TR152R	W468, E401	.23
54 J 056	155	2				.38
54 J 057	132	1		TR132R, TR163R, TR115R	E132	.30
54 J 040	175	1	2, 24	RM42R	D-99, A-100	.30
54 J 060	176	2			724, 950	.38
54 J 058	166	1	U10			.30
54 J 059	167	2				.38
54 J 041	177	1	U15	RM412R		.30
54 J 061	178	2				.38
54 J 062	183	1	U20			.30
54 J 063	184	2				.38
54 J 064	225	1	Y10			.23
54 J 069	226	2				.38

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Service data covers over 30,000 post-war TV and radio sets, record changers, hi-fi units, etc. Based on actual lab analysis of production-run equipment, it is highly accurate, *verified* data. Each folder includes schematics, photos of chassis showing location of parts, alignment instructions, tube placement charts, replacement parts lists, and trouble-shooting hints. Used extensively by up-to-date radio and TV service shops—they will pay for themselves in time saved.

ALL FOLDER SETS IN STOCK. We stock all sets from No. 1 and up. Use the free Index listed below to determine the folder set you require, or write to Allied giving Make and Model No. of receiver. When ordering, be sure to specify Stock No. (38 KK 500), and Folder Set No., (or Make and Model No.).

38 KK 500, EACH FOLDER SET, Postpaid in U.S.A.1.95

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38 K 576 FREE

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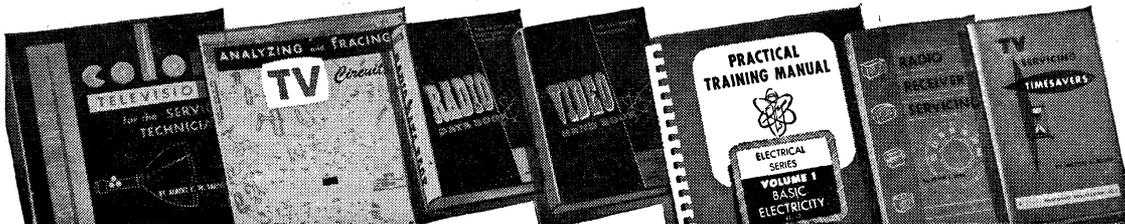
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38 K 863	39	381-390	6/57-10/57	38 K 573	19	181-190	7/52-11/52
38 K 862	38	371-380	3/57-6/57	38 K 572	18	171-180	4/52-7/52
38 K 861	37	361-370	1/57-3/57	38 K 571	17	161-170	1/52-4/52
38 K 860	36	351-360	10/56-1/57	38 K 570	16	151-160	11/51-1/52
38 K 859	35	341-350	7/56-10/56	38 K 569	15	141-150	8/51-10/51
38 K 634	34	331-340	5/56-7/56	38 K 568	14	131-140	4/51-8/51
38 K 633	33	321-330	2/56-5/56	38 K 567	13	121-130	1/51-4/51
38 K 632	32	311-320	12/55-2/56	38 K 566	12	111-120	10/50-1/51
38 K 631	31	301-310	10/55-12/55	38 K 565	11	101-110	7/50-10/50
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38 K 627	27	261-270	12/54-3/55	38 K 556	7	61-70	5/49-10/49
38 K 626	26	251-260	9/54-12/54	38 K 555	6	51-60	12/48-5/49
38 K 625	25	241-250	6/54-9/54	38 K 554	5	41-50	7/48-12/48
38 K 624	24	231-240	12/53-5/54	38 K 553	4	31-40	1/48-7/48
38 K 584	23	221-230	8/53-12/53	38 K 552	3	21-30	7/47-1/48
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38 K 858	TGL-6	6	1955-1956
38 K 857	TGL-5	5	1952-1954
38 K 606	TGL-4	4	1952-1954
38 K 856	TGL-3	3	1951-1952
38 K 856	TGL-2	2	1950-1951
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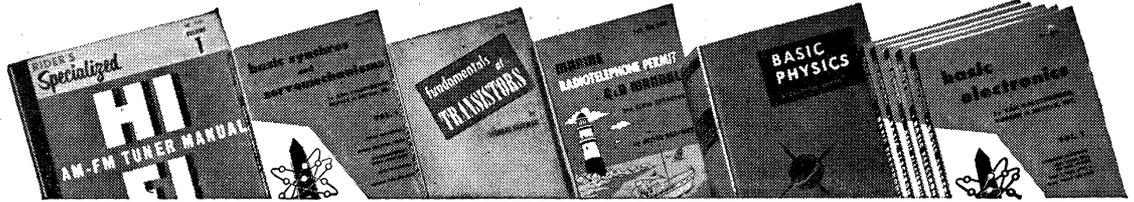
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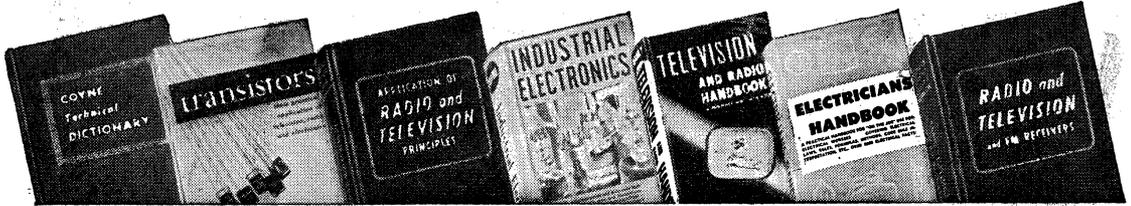
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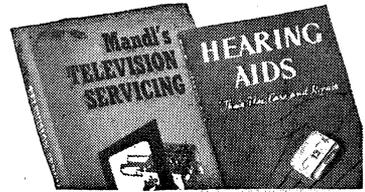
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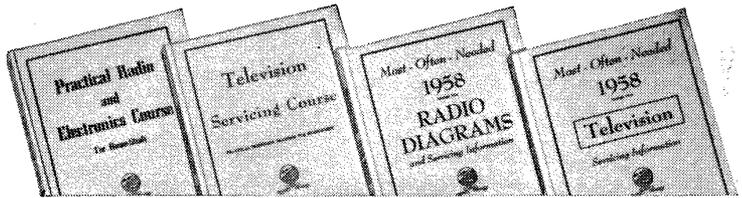
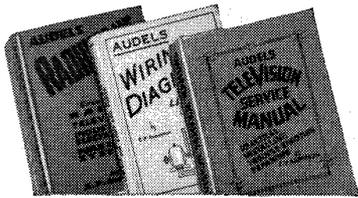
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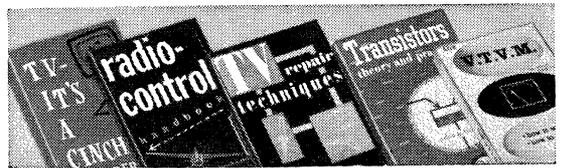
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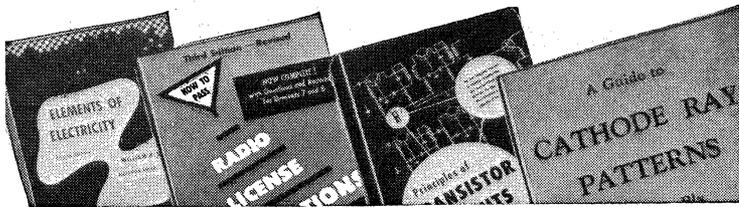
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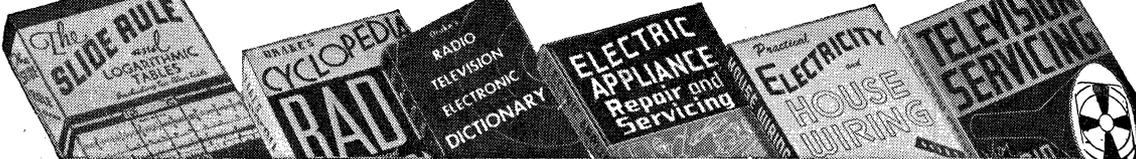
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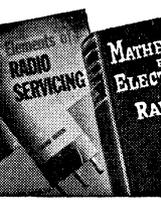
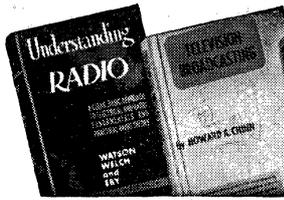
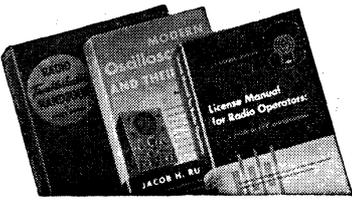
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RADIO AND TELEVISION RECEIVER CIRCUITRY AND OPERATION. By Alfred A. Ghirardi. Covers modern radio and TV receivers. Based upon years of experience and hundreds of talks with servicemen. With this book servicemen can trace trouble with a minimum of time and effort, repair sets promptly and efficiently. Educational and practical guide for the beginner—extremely worthwhile addition to the service technician's library. Clearly written—easy to understand. 400 illustrations. 669 pages. Size 6½x9¼".
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RADIO AND TELEVISION RECEIVER TROUBLE SHOOTING AND REPAIR. By Alfred A. Ghirardi and J. R. Johnson. Complete, easily understood course in servicing TV, FM and AM radios and record players. An excellent book for the experienced serviceman as well as the beginner. 417 illustrations. 820 pages. Size, 6x9".
37 K 759. Postpaid in U.S.A. 7.50

Combination Offer: Radio and TV Receiver Circuitry and Operation plus Radio and TV Receiver Troubleshooting and Repair at a savings.
37 K 762. Postpaid in U.S.A. 13.00

SYLVANIA TUBE MANUAL

SYLVANIA MANUAL OF ELECTRONIC TUBES. Latest edition. Over 1000 tube types including new color TV tubes, kinescopes, series-string tubes, and diodes. Loose-leaf binder opens flat for convenience; also permits adding new data at any time. 504 pages. Size 9½x13¼".
37 K 132. Postpaid in U.S.A. 2.00

McGRAW-HILL PUBLICATIONS

UNDERSTANDING RADIO. 2nd Edition. By Watson, Welch and Eby. Simplified introduction to practical radio. Clearly written and well illustrated. Chapters include: Radio Waves and Wave Travel; Principles of the Vacuum Tube; Radio-Telephone Transmitters; Antennas; Frequency Modulation; Oscillators; Superheterodyne Receivers; Wave-Form Pictures; Power Supplies; Public Address Amplifiers; Crystal Detector Receiver; Resonance and Tuning. 716 illustrations. 716 pages. 6x9".
37 K 688. Postpaid in U.S.A. 7.79

TRANSISTORS. By A. Coblenz and H. Owens. Covers transistor from manufacture through circuit design. Explains both point-contact and junction-type transistors of the silicon and germanium type. Chapters include: Holes and the Transistor; The Electron; Nature of Semi-Conductors; Electronics of Transistors; Small-Signal Parameters; Grounded-Emitter and Grounded Collector Connections; Cascading Transistors; Switching Circuits. Illustrated. A thorough treatment—lucidly written. 313 pages. Size, 6x9".
37 K 459. Postpaid in U.S.A. 5.88

TELEVISION FUNDAMENTALS: THEORY, CIRCUITS & SERVICING. By Fowler and Lippert. Simple non-mathematical presentation of the basic principles of television. Covers all elements of the receiver system, from antenna to picture tube. Typical chapters: The Picture Tube; Video Detector and Amplifier Circuits; Sweep Generators; Synchronization; Receiving Antennas and Their Installation; Test Equipment and Alignment. Fully illustrated. 524 pages. Size, 6x9".
37 K 798. Postpaid in U.S.A. 7.35

TELEVISION AND RADIO REPAIRING. By John Markus. A practical "how-to-do-it" manual. Discusses troubles in power supplies, resistors, capacitors, speakers, tuning devices, etc. How to test, repair and replace components. Only a minimum of theory needed. Many useful shortcuts suggested. 556 pages. 229 illustrations. 6x9".
37 K 518. Postpaid in U.S.A. 7.79

ELEMENTS OF RADIO SERVICING. 2nd Edition. By W. Marcus and A. Levy. Easy-to-read presentation of the theory and procedures of radio servicing. Many examples used to simplify explanations. Includes details on using the sweep generator and oscilloscope for servicing. Chapters on: Servicing Procedure; Alignment of a Superheterodyne Receiver; Multimeters; Signal Generator Applications; Auto Radio Installation; AC/DC Power Supply; Servicing AM-FM Receiver; IF Amplifier Stage; Servicing Bench. 480 illustrations. 557 pages. Size, 6x9".
37 K 990. Postpaid in U.S.A. 6.86

RCA SERVICE DATA BOOKS

PRACTICAL COLOR TELEVISION FOR THE SERVICE INDUSTRY. (Revised edition.) By RCA Service Co. An extremely valuable book for TV servicemen, engineers and technicians. Thoroughly covers: Color principles, transmission, test equipment, RCA compatible system, receiver circuitry, installation, servicing, alignment, and other subjects vital to color TV. Includes glossary. Profusely illustrated. 84 pages. Size, 8½x11".
37 K 173. Postpaid in U.S.A. 2.00

RADIOTRON DESIGNERS HANDBOOK. New Fourth Edition. Edited by F. Langford-Smith and a staff of 33 author-engineers. The most comprehensive volume ever published covering the design of radio and audio circuits and equipment. Written for design engineers, students, and service technicians interested in basic and advanced principles of circuit design. Contains 1000 illustrations, and a 7000-item cross-reference index. 1500 pages, 5½x8¾".
37 K 597. Postpaid in U.S.A. 7.00

RCA TUBE MANUAL. RC-18. Latest revised edition. Full technical data on all current receiving tubes and kinescopes including color and black and white. Has schematics on AM and FM radios, intercom, short-wave receiver, amplifiers, treble and bass control stage, volt-ohm meter, etc. Also explanation of electron tube characteristics, interpretation of operating curves, etc. 352 pages. 5½x8¾".
37 K 575. Postpaid in U.S.A. 7.50

MATHEMATICS FOR ELECTRICIANS AND RADIOMEN. By N. M. Cooke, Lt. Commander, U.S. Navy. Teaches elementary algebra; quadratic equations; logs; trig; plane vectors; and elementary vector algebra as applied to electricity and radio. 3,000 problems and answers. Typical chapters: Exponents and Radicals; Simultaneous Linear Equations; etc. Also contains many useful charts and tables. 604 pages. 6x9".
37 K 691. Postpaid in U.S.A. 5.39

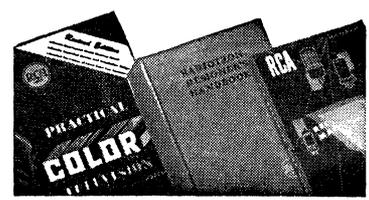
TELEVISION BROADCASTING. By Howard China. Practical, easy-to-read, technical guide to equipment, systems, facilities, engineering practices, and operating techniques of television broadcasting. Typical chapters: Image Orthicon Camera; Field Pickup Techniques; Field Equipment; Studio Equipment; Studio Lighting; Staging; Camera Technique; etc. 695 pages. Size, 6x9".
37 K 948. Postpaid in U.S.A. 9.80

HANDBOOK OF INDUSTRIAL ELECTRONIC CIRCUITS. By Markus and Zelfuff. Invaluable reference on 433 industrial electronic circuits. Excellent for engineers, technicians, etc. Diagrams included. Chapters cover circuits on: Capacitance control, counting, electronic switching, motor control, timing, multivibrators. 272 pages. 8½x11".
37 K 655. Postpaid in U.S.A. 7.35

RADIO ENGINEERS' HANDBOOK. By F. E. Terman. A wealth of technical information for solving practical radio problems. Typical chapters: Fundamental Components of a Radio System; Circuit Elements; Resonant Circuits and Circuit Analysis; Fundamental Properties of Vacuum Tubes; Vacuum Tube Amplifiers; Oscillators; Power Amplifiers; Propagation of Radio Waves; Power Supply Systems; Antennas. 1,019 pages. 6x9".
37 K 975. Postpaid in U.S.A. 11.76

ELECTRONICS DICTIONARY. By Cooke and Markus. Definitions of almost 6500 terms in addition to a complete listing of common abbreviations. A condensed library of technical knowledge. Ready reference data at your fingertips. Indispensable for the instructor and technical writer. Recommended for the student and technician. A worthwhile addition to your book shelf. 433 pages. Size, 5¼x8¾".
37 K 983. Postpaid in U.S.A. 6.37

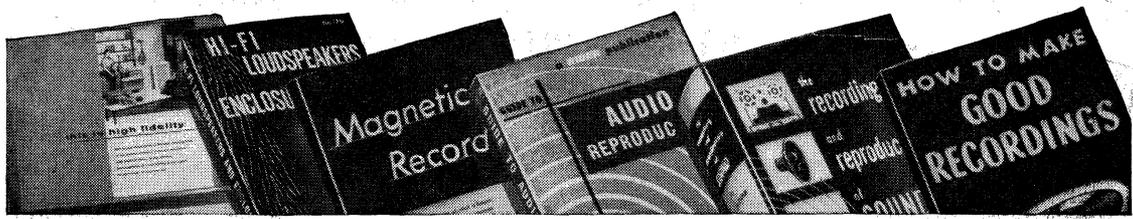
REPAIRING RECORD CHANGERS. By Eugene Ecklund. Clearly explains how to service record changer mechanisms. Well-illustrated to show operation and repair of pickups; needles; record changing actions; motor drives; tripping, dropping and shutoff mechanisms. 278 pages. 6x9".
37 K 423. Postpaid in U.S.A. 5.83



TRANSMITTING TUBE MANUAL. TT-4. Latest edition. Contains technical data and operating characteristics of currently available transmitting and high voltage rectifier tubes. Includes section covering power tube fundamentals, construction and materials, applications, design considerations, etc. Circuit diagram section graphically illustrates practical uses of transmitting tubes in oscillators, power amplifiers, dielectric and induction heating circuits, etc. Profusely illustrated. 256 pages. Size, 5½x8¾".
37 K 222. Postpaid in U.S.A. 1.00

Additional RCA literature on page 117. Popular RCA replacement components are listed on page 358. Make Allied your headquarters for RCA parts.

HIGH-FIDELITY AND RECORDING BOOKS



TECHNIQUES OF MAGNETIC RECORDING. By Joel Tall. This clearly written book is equally suitable for the professional seeking new ideas and for the amateur who has become interested in magnetic recording. Begins by describing early attempts at magnetic recording and takes the reader up to the latest methods of, and many uses for, magnetic recording. Offers practical solutions for many of the problems which may arise in making recordings. Chapters on home recordings and on specialized recordings for education, public entertainment, advertising, etc. Provides a working knowledge of the theory of sound and of magnetic recording. Illustrated. 472 pages. Size, 5½x8½".

37 K 371. Postpaid in U.S.A. 7.79

BASS REFLEX CABINET PLANS. Unusually thorough booklet on the construction of the popular bass reflex speaker enclosure. For either a 12" or 15" speaker. Clearly written and highly readable, the booklet tells you what lumber to buy, how to lay out and cut the lumber, how to assemble the enclosure, and how to apply a furniture finish. Profusely illustrated. 10 pages. 8½x11".

39 K 013. Postpaid in U.S.A. 10.00

HI-FI SPEAKER BOOKS

LOUDSPEAKERS. By G. A. Briggs (Wharfedale Speakers). 4th edition. Non-technical book covering the field of sound reproduction. Contains an excellent guide for the proper selection of speakers and the construction of baffles. Typical chapters include: Development of Loudspeakers; Chassis or Cone Housing; Impedance; Response Curves; Resonance and Vibration, etc. 92 pages. 8x5".

37 K 325. Postpaid in U.S.A. 1.57

HI-FI LOUSPEAKERS AND ENCLOSURES. By Abraham B. Cohen (Rider). A clear, well-organized book for either the hi-fi enthusiast or the audio technician. First section deals with the basic principles of loudspeakers, multi-speaker design, cross-over networks, etc. Second section analyzes the characteristics of baffles and enclosures and supplies data on building and evaluation of performance. The third section discusses the room as part of the acoustic circuit and includes hints on enclosure placement. Appendix consists of 18 complete plans for the construction of typical enclosures. Profusely illustrated. 368 pages. 5½x8½".

38 K 924. Postpaid in U.S.A. 4.51

JENSEN SPEAKER SYSTEM PLANS. Especially written for the Hi-Fi enthusiast who wants to build his own loudspeaker enclosure. Gives detailed construction plans for enclosures ranging from the "Imperial" folded horn to the "Duette" cabinet. Tells how to dress up completed enclosures. Includes complete parts lists and many excellent illustrations. 36 pages. Size, 8½x11".

37 K 128. Postpaid in U.S.A. 50c

GENERAL HI-FI BOOKS

HIGH FIDELITY TECHNIQUES. John H. Newitt (Rinehart Books). An unusually comprehensive book for the hi-fi enthusiast and technician. Topics covered include: ear frequency response; properties of sound; reverberation; response characteristics of cross-over networks; distortion; special hi-fi circuits; binural effects; amplifiers; tuners; record players; preferred hi-fi practices; choosing, buying and installing equipment; etc. 494 pages. 6x9¼".

37 K 351. Postpaid in U.S.A. 7.50

UNDERSTANDING HIGH FIDELITY. Written by L. Biancolli and L. H. Bogen (Bogen). Contains two main sections: Understanding High Fidelity and A Guide to Selecting and Installing High-Fidelity Equipment. Contains chapters on: The Nature of Musical Sounds, Elements of a High-Fidelity System, How to Conduct a Listening Test plus a glossary of common hi-fi terms and individual chapters on the components of a music system. Size, 6x9".

37 K 211. Postpaid in U.S.A. 25c

THE 3RD AUDIO ANTHOLOGY. Edited by C. McFroud. Consists of selected articles which have appeared in *Audio Magazine*. Presents many suggestions and ideas for improving hi-fi systems. Chapters include: Improved Phono-graph Compensation Circuits, by R. H. Brown. Flexible Tone Control Circuit, by Basil T. Barber. 124 pages 8½x11¼".

37 K 337. Postpaid in U.S.A. 2.50

GENERAL HI-FI BOOKS

HIGH FIDELITY HOME MUSIC SYSTEMS. W. R. Wellman (Van Nostrand). An expertly written book of practical hints and money-saving suggestions on the selection of hi-fi components. Considers such factors as budget, room layout and personal taste. Detailed drawings simplify construction of custom cabinets. Also shows how to convert radios and phonographs for hi-fi reproduction. 177 pages. Size, 5½x8¼".

37 K 438. Postpaid in U.S.A. 4.41

HIGH-FIDELITY SIMPLIFIED. Third edition. By H. D. Weiler (Rider). Tells you what you need to know to enjoy Hi-Fi. An excellent guide for selecting the best equipment with least expense. Includes the following chapters: Sound; Acoustics; Electronics and Music; The Hi-Fi Loudspeaker; Loudspeaker Enclosures; etc. 216 pages. 5½x8½". Soft cover.

37 K 769. Postpaid in U.S.A. 2.45

HIGH FIDELITY AND THE MUSIC LOVER. By Edward Tattall Canby (Harper & Brothers). Written by the record columnist for *Harper's* and *Audio* magazines. A layman's guide to hi-fi from a music lover's point of view. Explains the function of speakers, amplifiers, etc. in non-technical terms and tells how to assemble a system from living-room organizations in mind. Special sections on tape recorders and tape editing, and stereo equipment, both disc and tape. 320 pages, 27 drawings. 8x5½".

38 K 872. Postpaid in U.S.A. 4.95

GUIDE TO AUDIO REPRODUCTION. D. Fidelman. (Rider). A complete explanation of the reproduction of sound. Discusses all phases of audio reproduction systems. Covers design, construction, assembly, and testing of systems as a whole and the components which comprise them. Chapters include: hi-fi reproduction of sound, input and pick-up units, audio amplifier theory, A-F networks and corrective circuits, loudspeakers and enclosures, magnetic recording, measurement of quality of audio reproduction, etc. 240 pages with over 160 illustrations. 5½x8½". Soft cover.

37 K 308. Postpaid in U.S.A. 3.43

SOUND REPRODUCTION. (3rd Ed.) G. A. Briggs (Wharfedale Speakers). Recommended by a leading national research organization. Provides a comprehensive technical coverage of the entire field. Has 28 chapters, including the following: Cone Resonances, Room Acoustics, Response Curves, Crossover Networks, Interference, Magnetic Recording, etc. Amply illustrated. 368 pages. 5½x8¼".

37 K 326. Postpaid in U.S.A. 3.43

CARE AND REPAIR OF HI-FI: VOLUME 1, AUDIO ELECTRONICS. By Leonard Feldman (Cowan). New book lucidly explains principles and specification standards of amplifiers and preamps. Designed to help you select and get full value from a hi-fi system. 152 pages. 5½x8½".

37 K 926. Postpaid in U.S.A. 2.45

GUIDE TO THE CARE OF MODERN RECORDINGS. By Karl A. Barleben (Walco). An informative booklet which thoroughly discusses all aspects of record and stylus care in a clear interesting manner. Subjects covered include: stylus Wear, Dust Cleaners; Handling of Records; Proper Storage of Records. An important addition to any Hi-Fi library. 25 pages. Size, 5x7¼".

37 K 144. Postpaid in U.S.A. 25c

HI-FI SERVICING BOOKS

SERVICING RECORD CHANGERS. (Cowan Book). This valuable book covers every functional assembly as a unit so that even if you are a beginner, in no time at all you will know how to service all types of record changers. Chapters include: Change Cycle, Trip Mechanism, Setdown Index, etc. Also has drawings which illustrate intricate mechanisms. 22 pages. Size, 5½x8¼".

37 K 271. Postpaid in U.S.A. 2.90

MAINTAINING HI-FI EQUIPMENT. By Joseph Marshall (Gernsback). A clearly written, much-needed handbook for servicing and trouble-shooting of hi-fi components. Chapters include: High-Fidelity Standards, Test Instruments, High-Fidelity Circuits, Preliminary Diagnosis, Distortion, Bass and Treble Faults, Audio Troubles, etc. Illustrated. 224 pages. Size, 5½x8¼".

38 K 932. Postpaid in U.S.A. 2.90

TAPE RECORDING BOOKS

YOUR TAPE RECORDER. By Robert and Mary Marshall (Greenberg, Pub.). How to select and get the most out of your tape recorder. Written from the practical viewpoint, it describes the best unit for different applications. Has detailed directions for making the recordings under various conditions, such as orchestra recordings, church services for shut-ins, and home recordings. Charts show correct microphones to use and type of playback equipment needed. Specs on 55 recorders. Over 100 illustrations. 288 pages. 8½x5¼".

37 K 484. Postpaid in U.S.A. 4.85

TAPE RECORDERS AND TAPE RECORDING. By Harold D. Weiler (Radio Magazine, Pub.). An extremely useful book for the amateur and semi-professional recorder. Covers virtually every recording problem in easy-to-understand language. Contains numerous tables and charts—more than 100 illustrations. Typical chapters: Microphones and Tape Recording, Tape Recording and Room Acoustics, Recording from Records, Radio and TV, Tape Recorders—Theory and Practice, Tape Recorders—Maintenance. 13 chapters. 192 pages. 8½x5¼".

38 K 124. Postpaid in U.S.A. 2.95

HOW TO SERVICE TAPE RECORDERS. By A. Tutthill (Rider). All phases of servicing tape recorders. Subjects include: Operation of the recording head; types of electronic circuits; kinds of drive mechanisms used; trouble-shooting—and how to service many types of tape recorders, with practical examples. Discusses general maintenance of recorder mechanisms as well as the requirements for a tape recorder repair shop. 160 pages. 5½x8¼".

37 K 998. Postpaid in U.S.A. 2.84

RECORDING AND REPRODUCTION OF SOUND. 2nd ed. Dr. Oliver Read (Howard W. Sams, Pub.). Complete authoritative coverage of the entire subject of audio; how to get the most out of recording equipment; how to test amplifier performance. Chapters on Behavior of Sound Waves; Basic Recording Methods; Lateral Disc and Microgroove Recording; Magnetic Recorders—tape, wire and film; Loudspeakers and Enclosures; Public Address Systems; AM and FM Tuners. 700 illustrations. 800 pages. 6x9".

38 K 585. Postpaid in U.S.A. 7.95

MAGNETIC RECORDING. By S. J. Begun (Murray Hill). A comprehensive book on magnetic recording. Chapters on History of Magnetic Recording, Fundamentals of Magnetism, Theory of Magnetic Recording, Components, Recording Equipment, Measurements, and Magnetic Recording Measurements, Industrial Applications. More than 130 diagrams and illustrations. 242 pages. 6½x9".

37 K 729. Postpaid in U.S.A. 5.00

HOW TO MAKE GOOD RECORDINGS. (Audio Devices, Inc.) Detailed book covering basic techniques of the art. Covers every phase of disc recording. Tells the whole story in non-technical terms. Includes selection of equipment, common recording difficulties and their remedies, school recording problems, etc. 128 pages. 86 illustrations. Size, 6½x8".

37 K 641. Postpaid in U.S.A. 1.45

TAPE RECORDERS—HOW THEY WORK. By Charles E. Westcott (Howard W. Sams). A detailed treatment of tape recording technique and tape recorder equipment. Serves as guide for purchasing and operating a tape recorder. Topics include: Magnetic recording theory, characteristics of tape, how a recorder operates, motorboard mechanism, motors, volume indicators, bias oscillators, etc. Illustrated. 176 pages. 5½x8¼".

38 K 642. Postpaid in U.S.A. 2.75

HOW TO SELECT AND USE YOUR TAPE RECORDER. By David M. Rider (Rider). All the facts needed for an intelligent selection of a tape recorder and how to get the most use from it. Written in clear, easy-to-read manner—with a minimum of technical language. Chapters include: Introducing the Tape Recorder, How a Tape Recorder Works, How to Make a Recording on Tape, Using a Tape Recorder in the Home, Using a Tape Recorder in Business, Using a Tape Recorder in Professional Service. How to Select a Tape Recorder. A Buyer's Guide lists over 80 kinds of tape recorders. With 152 illustrations. 148 pages. 5½x8¼". Soft cover.

38 K 925. Postpaid in U.S.A. 2.89

HIGH-FIDELITY, REFERENCE AND BEGINNERS PUBLICATIONS



HIGH FIDELITY BOOKS

HIGH FIDELITY—A PRACTICAL GUIDE. By Charles Fowler (Audiocom). An extremely well written book that tells you how to explain every aspect of high fidelity. It explains in clear, non-technical language, just how to evaluate, buy and operate hi-fi equipment. Covers speakers, enclosures, room acoustics, amplifiers, control units, tuners, phonograph pickups, record changers turntables, etc. 100 illustrations. 310 pages. $5\frac{1}{2} \times 8\frac{1}{2}$ ".

38 K 125. Postpaid in U.S.A. 4.85

HOW TO MAKE GOOD TAPE RECORDINGS. By C. J. LeBel (Audio Devices). A complete handbook of tape recording. Contains a wealth of practical information for professional as well as beginning tape recordists. Chapters include: How a Tape Recorder Works, Selecting a Recording Tape, Tape Editing, Binaural or Stereophonic Recording, etc. Advises how to obtain best recordings in home or church, for singers, children, etc. Profusely illustrated. 150 pages. $5\frac{1}{2} \times 8\frac{1}{2}$ ".

38 K 933. Postpaid in U.S.A. 1.50

HANDBOOK OF SOUND REPRODUCTION. By Edgar M. Villchur (Radio Magazine, Inc.). A practical, well-written book for those who want to learn more about hi-fi at a technical level. Equivalent to a study of several texts on acoustical engineering, but presented clearly so that the layman and the high fidelity enthusiasts, can learn easily. Covers the basics of sound, disc recording, speakers, pickups, tone control and equalization, etc. Illustrated. 218 pages. $6\frac{1}{4} \times 9\frac{1}{4}$ ".

37 K 209. Postpaid in U.S.A. 6.50

STEREOPHONIC SOUND By Norman Crowhurst (Rider). Written in an easy, interesting, non-technical style. The author explains the theory of stereophonic sound; the difference it can make in listening pleasure; the requirements for successful stereo playback; binaural and two and three channel systems; and the use of these systems with radio, disc and tape. Suggestions are given for the selection and placement of speakers for the best in home stereo reproduction. Profusely illustrated. 128 pages. $5\frac{1}{2} \times 8\frac{1}{2}$ ".

38 K 919. Postpaid in U.S.A. 2.20

BASIC AUDIO COURSE. By Donald Kirk Hoefler (Gernsback). A basic text that provides easy-to-understand explanations of all the important points in the field of audio reproduction. Avoids the use of higher mathematics. Chapters include: The Nature of Sound, Audio Frequency Amplifiers, Distortion and Noise, Loudspeaker Systems, etc. Describes the various types of microphones, and the principles of both disc and tape recording. Illustrated. 223 pages. $5\frac{1}{2} \times 8\frac{1}{2}$ ".

38 K 926. Postpaid in U.S.A. 2.75

HIGH-FIDELITY—DESIGN, CONSTRUCTION, MEASUREMENTS (Gernsback). For those who want to build and experiment with hi-fi equipment. Discusses design, construction and measurements. Covers: Audio Feedback Design, by G. F. Cooper; Crossover Networks, by N. H. Crowhurst; Audio Waveform Analysis, by J. D. Ledbetter and E. J. Thompson; etc. Written for slightly advanced experimenters already familiar with the basic principles involved. Packed with valuable reference information. 128 pages. $5\frac{1}{2} \times 8\frac{1}{2}$ ".

37 K 786. Postpaid in U.S.A. 1.50

HIGH FIDELITY CIRCUIT DESIGN. By Norman Crowhurst and George F. Cooper (Gernsback). This new book takes the guesswork out of high-fidelity circuit design. Shows you how to plan circuits intelligently before you begin construction. Chapters include: Feedback Effects, Analysis and Design, Attenuators, Speaker Systems, Test Equipment, etc. For experimenters with some knowledge of the basics of circuits, charts and mathematics. 304 pages. $8\frac{3}{8} \times 5\frac{3}{8}$ ".

37 K 272. Postpaid in U.S.A. 5.95

HI-FI HANDBOOK, HFB-1 (Sams). A comprehensive book for the beginner, audiophile and technician interested in hi-fi design and installation. Covers loudspeakers, baffles, enclosures, amplifiers, preamplifiers, controls, etc. Helpful hints on speaker locations, program sources, selection of equipment and many other interesting hi-fi subjects. Profusely illustrated with numerous pictures, diagrams, graphs, charts, etc. 224 pages. $5\frac{1}{2} \times 8\frac{1}{2}$ ".

37 K 358. Postpaid in U.S.A. 3.00

REFERENCE BOOKS

ELECTRONICS MADE EASY. By L. Stern. (Popular Mechanics). Reference and guide for the beginner and experimenter. Covers basic electronic theory, hi-fi and transistors. Presents 23 construction projects in detail, including: Crystal set; 1, 3 and 5-tube radios; short wave converter; intercom system; photoelectric eye; test units; 10 and 25-watt hi-fi amplifiers etc. 192 pages. $6\frac{1}{2} \times 9\frac{1}{2}$ ".

38 K 127. Postpaid in U.S.A. 3.50

HANDBOOK OF CHEMISTRY AND PHYSICS. By Hodgman. 40th edition. (Chemical Rubber Publishing Co.). Highly comprehensive reference manual containing formulas and tables for literally every technical field. Includes chemical formulas, charts and descriptions of the elements, physical data on hundreds of compounds, mathematical charts, etc. Over 3300 pages. $4\frac{3}{4} \times 7\frac{1}{4}$ ".

37 K 331. Postpaid in U.S.A. 12.00

RADIO-ELECTRONICS MADE SIMPLE. By Martin Schwartz. (American Electronics Company publication.) Provides reader with basic understanding of elementary radio-electronic principles. Especially useful for beginners. 14 chapters dealing with current, voltage, transmission and reception, antennas, magnetism, etc. Excellent reference guide. 191 pages. Illustrated. 6x9".

37 K 245. Postpaid in U.S.A. 1.95

RADIO-ELECTRONIC MASTER. (United Catalog Publishers.) New 1959 edition (23rd). Official catalog of the radio, television and electronics industry. Large, hard-bound volume lists over 85,000 items produced by major manufacturers. Each item is fully described, with specifications and prices! 1500 pages. Size, $8\frac{1}{2} \times 11\frac{1}{2}$ ".

37 K 204. Postpaid in U.S.A. 3.50



EDITORS AND ENGINEERS PUBLICATIONS

COMMUNICATIONS BOOKS

RADIO HANDBOOK. 14th edition. Complete volume on radio practice. This extremely valuable text on radio technique and theory deserves a place on every reference shelf. An unusually comprehensive handbook for Amateurs, engineers, radiomen and technicians. Tells how to design, construct and operate Amateur transmitting and receiving equipment. Contains valuable reference data; text is thoroughly supplemented with hundreds of pictures, diagrams and charts.

Covers basic electricity, AC and DC circuits, vacuum tubes and amplifiers, receiver fundamentals; generation of RF, AM and FM, transmitter design and adjustment, radiation and propagation, antennas, high frequency arrays, TVI and BCI, mobile equipment, power supplies, test units and radio math. Covers latest equipment—does not duplicate 13th edition. Includes schematics. Hard cover. 768 pages. Size, $6\frac{1}{2} \times 9\frac{1}{2}$ ".

37 K 596. Postpaid in U.S.A. 7.50

RADIO-TELEPHONE LICENSE MANUAL. Valuable manual that contains all the information necessary to obtain any commercial radio-telephone license. Complete list of questions and answers. Covers: Questions on Basic Law; Basic Operating Practice; Basic Radiotelephone; Advanced Radiotelephone.

Unusually complete appendix includes: Formulas and Problems; recommended FCC publications; Laws and Regulations; "Q" Signals; Miscellaneous Abbreviations. Complete information for anyone interested in radiotelephone communication. Paper bound. Includes many diagrams. 200 pages. $6\frac{1}{2} \times 9\frac{1}{2}$ ".

37 K 784. Postpaid in U.S.A. 3.75

PRACTICAL BEGINNERS BOOKS

BOY'S FIRST BOOK OF RADIO AND ELECTRONICS. By Alfred Morgan (Scribner's Pub.). Unusually fine beginners book. Expertly written; profusely illustrated. Ideal introduction to electronics for young or old. Begins with a simple explanation of the principles of the first wireless telegraph and telephone. Taking one simple step after another, it continues to build up the youngster's understanding of electronics. Covers: electricity, radio, tubes, learning code, etc. Hard-bound. 229 pages. Size, $5\frac{1}{2} \times 8\frac{1}{2}$ ".

37 K 278. Postpaid in U.S.A. 2.94

BOY'S SECOND BOOK OF RADIO AND ELECTRONICS. Companion to above volume, but complete in itself. Ideal for the advanced student and those who have completed the above book. Contains more advanced radio and electronic theory, as well as practical experiments and building projects. Detailed directions and working drawings for easily-made radio receivers and such electronic apparatus as transistor amplifiers, a transistor code oscillator, "electric eyes," electronic phonographs, Geiger counters, capacity operated relays, phono-oscillator, etc. Hard-bound cover. 276 pages. $5\frac{1}{2} \times 8\frac{1}{2}$ ".

37 K 279. Postpaid in U.S.A. 2.94

THERE'S ADVENTURE IN ELECTRONICS. By Julian May (Popular Mechanics Pub.). Written for beginners in highly interesting narrative style. Relates adventures of a young teenager learning the "Whys" of electronics from his father. Illustrations are masterpieces of simplicity aimed at easy understanding. Chapters include: Magic Waves; Randy Builds Crystal Sets; Inside TV; etc. Presents everyday electronics in a unique manner. Hard-bound. 170 pages. $5\frac{1}{2} \times 8\frac{1}{2}$ ".

37 K 210. Postpaid in U.S.A. 2.95

SURPLUS CONVERSION MANUALS

VOLUME 1. By R. C. Evenson and O. R. Beach. Devoted entirely to conversion data on surplus military equipment—no theory included.

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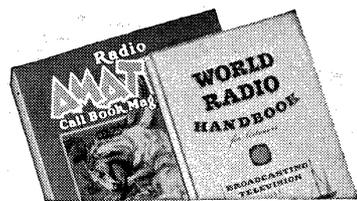
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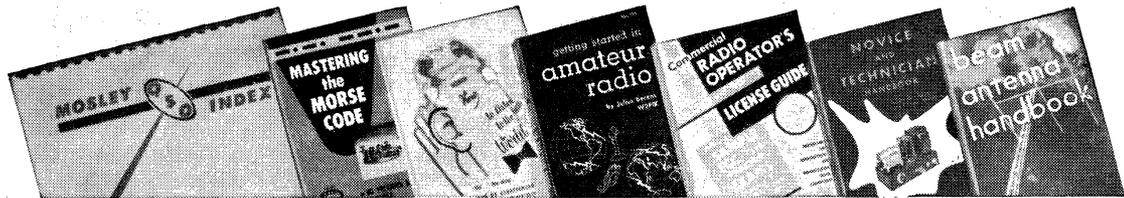
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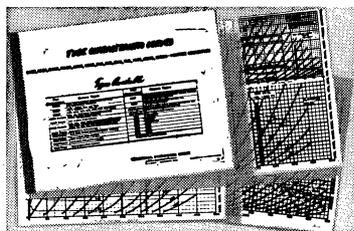
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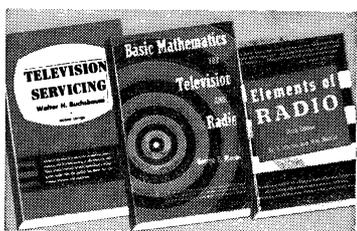
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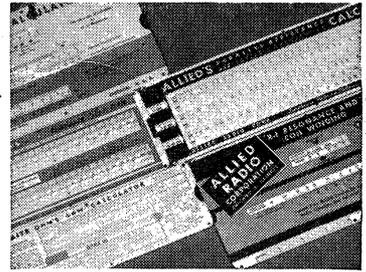
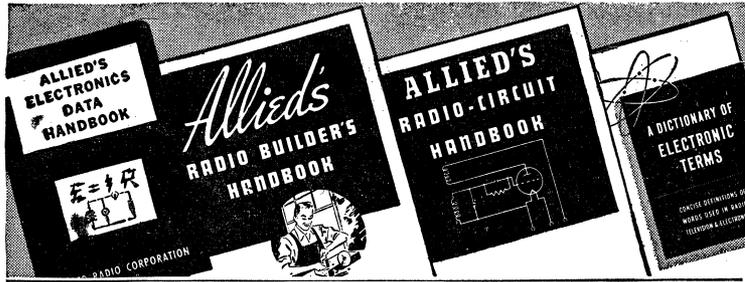
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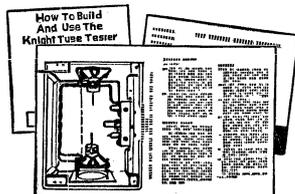
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- 37 K 289. New "12-in-1" Lab
- 38 K 295. 10-Circuit Transistor Lab
- 38 K 050. Crystal Set
- 38 K 936. 2-Transistor Pocket Radio
- 38 K 943. "Trans-Midge" 1-Transistor Radio
- 38 K 195. Printed Circuit 1-Transistor Radio
- 38 K 198. Crystal Z-Bridge
- 38 K 296. 100-kc Crystal Calibrator
- 38 K 161. "Ocean Hopper" Receiver
- 37 K 290. "Ranger III" Super-het Radio
- 37 K 294. Economy Tube Tester
- 37 K 292. New 12-Watt Hi-Fi Amplifier
- 38 K 871. New Stereo Control

- ANY MANUAL ABOVE. Postpaid in U.S.A. EACH 10c**
- 37 K 293. Clock Radio
 - 38 K 298. 4-Band "Span-Master" Receiver
 - 38 K 096. Electronic Photo-flash
 - 38 K 942. 5-Transistor Super-het Radio
 - 38 K 165. Tube Tester
 - 38 K 168. VOM; 20,000 Ohms/V
 - 38 K 098. 6-12 Volt Battery Eliminator
 - 38 K 169. Audio Generator
 - 38 K 196. TV-FM Sweep Generator
 - 38 K 190. Signal Tracer
 - 38 K 097. 5" General-Purpose Oscilloscope

ANY MANUAL ABOVE. Postpaid in U.S.A. EACH 20c



"TEKNI-CALS" INSTRUMENT AND PANEL DECALS

Extremely versatile water transfer decal sets. Wide selection covers practically any application. Permit exact marking and titling on Amateur, professional and industrial equipment. Excellent for engineering and classroom demonstrations—simplifies understanding of specific-part uses. Adhere to any clean surface. Easily photographed—contrasting design and colors of each decal is ideal for color or black and white photography. Packaged in handy, easy-to-use book form; each book protected by dust-free polyethylene storage bag. Set titles are alphabetically indexed. When title is removed, remaining decals are not disturbed. Av. shpg. wt., 5 oz.

- Aircraft Set.** Specialized to the needs of aircraft owner, repair man or mechanic. Titles for instrument panel, cabin and electrical circuits. Contains over 1200 titles, marks and specialized indications. For all types of aircraft. 1/8", 1/4" and 1/2" white markings.
37 K 969. NET 2.35
- Meter Dial Face Sets.** Meter dial faces for voltmeters, ohmmeters, ammeters, milliammeters, microammeters, etc. With scales for setting up new meters and repairing old equipment. Black on white.
38 K 107. For 2" meters. NET 1.75
38 K 108. For 3" meters. NET 1.85

GENERAL-PURPOSE INSTRUMENT AND WORKSHOP DECALS

- 37 K 968. Television, White
 - 37 K 966. Receivers, White
 - 38 K 112. Instruments, Black
 - 38 K 132. Communications, Black
 - 37 K 965. Transmitter, White
 - 37 K 956. Alphabet & Nos., Black
 - 37 K 957. Alphabet & Nos., White
 - 38 K 115. VTVM, Black
 - 38 K 116. VTVM, White
 - 37 K 962. Instruments, White
 - 37 K 958. Oscilloscope, Black
 - 37 K 964. Oscilloscope, White
 - 37 K 961. Vacuum Tubes, White
 - 38 K 137. Workshop, White
 - 37 K 967. Audio, White
 - 38 K 130. Audio, Black
 - 38 K 131. Audio, Gold
- NET EACH 1.35**

Special Purpose Tube Set. Contains two 4 1/4 x 11" sheets of markings, for tubes used in instrumentation and power circuits, etc. Black.
38 K 129. NET 1.50

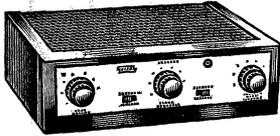
Dial Sets. Over 200 dial decals. Includes markings such as switch points circles, faders, gain, etc.
38 K 133. Black on white. 37 K 963. White on black. NET EACH 1.50

Service Sets. Contains 2 sheets of front panel markings and titles for TV and radio receivers plus intercom sets. Includes volume control and bandswitch dials, arrows, channel switch markings, etc.
38 K 134. White. 38 K 135. Black. 38 K 136. Gold. NET EACH 40c

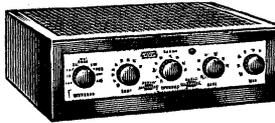
High-Fidelity Audio Sets. Over 1000 marks, symbols and titles for hi-fi amplifiers, filters, recorders, players, speakers, etc. Include various speeds for tape recorders; record equalization; etc.
38 K 109. Gold 38 K 110. Black. 38 K 111. White. NET EACH 1.50

Series Numerals. Numerals 3/8" high, numbered from 1 to 2500 consecutively. Ideal for equipment production runs, numbering switches, identifying components and other controls.
38 K 113. Black. 38 K 114. White. NET EACH 1.85

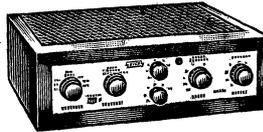
DO-IT-YOURSELF HIGH-FIDELITY COMPONENTS



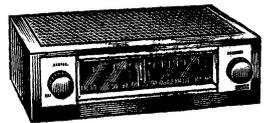
HF-65K



HF-32K



HF-81K



HFT-90K (Less Case)

NEW MODEL HF-65K PREAMPLIFIER KIT

- Versatile Master Control High-Fidelity Audio Center
- Deluxe 3-Stage Tone Control Circuit With Feedback
- Expertly Designed, "Low-Silhouette" Construction

Hi-fi preamplifier kit for versatile control of music systems—offers the audiophile a wide range of controls and switching facilities for any type of installation. Six inputs (3 high-level and 3 low-level) accommodate all hi-fi equipment including magnetic, crystal or ceramic cartridges, tuner, tape, TV, etc. Some of its features include: 4 phono equalizations (including RIAA) and NARTB tape head equalization; separate bass and treble controls; 3-stage tone control circuit; single switch to select any input and/or equalization; low-impedance tape output; built-in high and low noise elimination filters; cathode follower output; hum balance control; switched AC outlets; pilot lamp; concentric loudness and level controls.

SPECIFICATIONS: *Frequency Response:* ± 0.3 db, 5-200,000 cps up to 3 v. RMS output. *Harmonic Distortion:* (20-20,000 cps): 0.1% at 3 v. RMS output. *Filter Cut-Off Frequencies:* rumble filter, 50 or 100 cps at 9 db/octave; scratch filter, 5 or 10 kc at 9 db/octave. *Phono Equalizations:* RIAA, LONDON, Columbia, 78. *Tape Head Equalization:* NARTB for 7½ ips. 3—12AX7/ECC83 tubes plus rectifier. 3½x12x8¼". Complete with all parts, tubes, perforated steel cover (metallic-gold painted), brushed brass panel, and step-by-step instructions to permit quick, easy assembly. Less solder. For 110-120 volts, 50-60 cycle AC. Shpg. wt., 10 lbs.

83 SX 971. Only \$3.40 Down. NET. 33.95

MODEL HF-65-A-K. As above, less power supply. Wt., 8 lbs.

83 SX 972. Only \$3.00 Down. NET. 29.95

NEW MODEL HF-32K 30-WATT AMPLIFIER KIT

- Powerful Amplifier With Full Set of Controls
- Wide Response—Extremely Low Harmonic Distortion
- Superbly Designed—Employs Williamson-Type Circuit

Powerful 30-watt Williamson-type high-fidelity amplifier kit. Combines versatility and superb performance. Neatly styled in keeping with the "low-silhouette" design. Can be easily constructed—even by a person having no previous technical experience. Has 3 high-level switched inputs for tuner, TV, crystal cartridge or tape; 3 low-level inputs for magnetic cartridges, tape head and microphone. Low-impedance, tape recorder output.

Includes 4-position record equalizer plus NARTB tape head equalizer; separate bass and treble controls; scratch and rumble filters; loudness and level controls; hum balance control; auxiliary AC outlets; DC on preamp filaments; push-pull parallel (4) EL84 output stage; hum and noise is 60 db below rated output on low level input.

SPECIFICATIONS: *Rated Output:* 30 watts. *Frequency Response:* ± 0.5 db, 15-50,000 cps at rated output. *Distortion:* below 1% harmonic; 2% IM. *Speaker Outputs:* 4, 8 and 16 ohms. 4¾x15x10½". Supplied with all parts, tubes, brass panel and instructions. For 110-120 v., 50-60 cycle AC. Shpg. wt., 25 lbs.

83 SU 973. Only \$5.80 Down. NET. 57.95

MODEL HF-60K 60-WATT BASIC AMPLIFIER KIT

- Fully Potted Transformer
- Plenty of Reserve Power
- Superior Hi-Fi Response

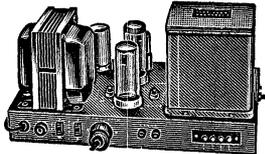
An extremely high-quality basic amplifier kit. Delivers plenty of power for clear, natural reproduction. Also, provides extra power needed for electrostatic and other type low-efficiency speakers. Uses ultra-linear connected push-pull EL34 output tubes operated with fixed bias. *Output:* 60 watts, 130 watts peak. *Response:* ± 0.1 db, 15-35,000 cps. *Harmonic Distortion:* less than 0.5% at 54 watts, 20-20,000 cps. *IM:* less than 0.5% at 50 watts; less than 1% at 60 watts. *Hum and Noise:* 90 db below rated output. *Damping Factor:* 17. *Sensitivity:* 0.55 volts for 60 watts output. Excellent stability and transient response. *Speaker Outputs:* 4, 8, and 16 ohms. Fully-potted Acro T-330 output transformer. Input level control. Standard octal socket provided for preamplifier power take-off. 7x14x8". Brown enamel finish. With all parts, tubes, wire and instructions. Less solder. For 110-120 v., 50-60 cycle AC. Wt., 30 lbs.

83 SU 957. Only \$7.30 Down. NET. 72.95

MODEL HF-50K. As above, but with Chicago Standard output transformer. Shpg. wt., 30 lbs.

83 SU 955. Only \$5.80 Down. NET. 57.95

87 SX 235. E-2 Cover. For HF-50K or HF-60K. 3 lbs. NET. 4.50



NEW MODEL HF-81K STEREO AMPLIFIER KIT

- Excellent Music Control Center—Full Controls
- Dual 14 Watts for Stereo—Full 28 Watts Monaural
- Employs Dual Williamson-Type Push-Pull Amplifiers

Highly versatile, combination stereo preamp and amplifier kit for the budget-minded hi-fi enthusiast. Permits selection, preamplification and control of any stereophonic source—tape, discs or broadcasts. Dual 14-watt Williamson-type amplifiers—mounted on one chassis—deliver a full 28 watts when unit is used for monaural reproduction. Has provisions for a tape mechanism, record changer and tuner for full enjoyment of both stereo and monaural. Simply add the speakers and program sources of your choice for rich, exciting sound. Suited for either regular or custom mounting.

Features include: individual low-level input in each channel for tape head, magnetic phono and microphone; front-mounted switch to choose NARTB tape head equalization for 3¾, 7½, or 15 ips tape speeds; individual high-level inputs for FM tuner, AM tuner and FM multiplex; auxiliary inputs (2 in each channel); level controls and separate balance control; separate bass and treble tone controls in each channel; push-pull EL84 power amplifiers (Williamson-type); hum balance control; pilot lamp; convenience outlets; panel-mounted fuse; "low-silhouette" construction.

SPECIFICATIONS: *Response:* ± 0.5 db, 10-100,000 cps (1 watt each channel). *IM Distortion:* 2% at 28 watts. *Speaker Outputs:* 4, 8 and 16 ohms. *Harmonic Distortion:* less than 1% from 30 to 10,000 cps at 16 watts. 4¾x15x10½". With all parts, tubes, cover and instructions. Less solder. For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 25 lbs.

83 SU 970. Only \$7.00 Down. NET. 69.95

NEW MODEL HFT-90K BASIC FM TUNER KIT

- Impressive High-Fidelity Performance at Low Cost
- "Low-Silhouette," Highly Attractive Styling
- Newly-Designed, Sensitive Tuning Indicator

A basic FM tuner kit offering excellent performance at moderate cost. Features temperature-compensated components for drift-free operation. Ideally suited for custom installations—provides exceptionally clean, faithful reproduction of the entire audio spectrum. Use it with any hi-fi amplifier having volume and tone controls.

Additional features include: pre-wired and pre-aligned front-end for exceptional ease of assembly; up-to-the-minute travelling tuning indicator; effortless, fly-wheel tuning; automatic gain control; cathode follower output; broad-band ratio detector; full-wave rectifier and heavy-filtering; very low distortion.

SPECIFICATIONS: *Sensitivity:* 1.5 μ v for 20 db quieting. *Bandwidth:* 260 kc at 6 db down. *Controls:* Tuning, Level/Power ON-OFF. *Frequency Response:* ± 1 db, 20-20,000 cps. With all parts, tubes and instructions. Less solder and cover. 3½x12x8¼". For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 10 lbs.

87 SX 245. Only \$4.00 Down. NET. 39.95

87 SX 246. Cover For Above. Shpg. wt., 3 lbs. NET. 3.95

NEW MODEL HF-30K 30-WATT BASIC AMPLIFIER KIT

- Excellent Hi-Fi Response
- Four EL84 Output Tubes
- Ideal for Custom Systems

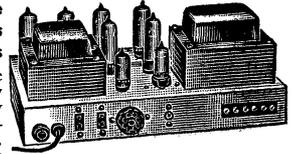
A value-packed 30-watt basic amplifier kit at remarkably low cost. Designed for use with any high-quality tuner or preamplifier with full set of controls. Uses four EL84 power output tubes to deliver full 30-watt output. Output transformer is constructed with interleaved windings for reduced leakage inductance. Amplifier has no controls—may be placed in any convenient, out-of-the-way location or easily installed in cabinet. Ideally suited for use in moderately priced, custom high-fidelity music systems.

SPECIFICATIONS: *Rated Output:* 30 watts. *Response:* ± 0.5 db, 15-50,000 cps at rated output. *Harmonic Distortion:* less than 1% (from 20-20,000 cps). *Intermodulation:* less than 2% at rated output. *Inverse Feedback:* 20 db. *Sensitivity:* 1.24 volts for rated output. *Speaker Outputs:* 4, 8 and 16 ohms. *Tubes:* 1—6AV6, 1—EC90/6C4, 4—EL84; 2—E281 rectifiers. 5x12x7". With all parts, tubes, cadmium-plated steel chassis and instructions. Less solder and cover. For 110-120 v., 50-60 cycle AC. Shpg. wt., 17 lbs.

83 SX 974. Only \$4.00 Down. NET. 39.95

MODEL E-4 COVER. For above. Shpg. wt., 3 lbs.

83 SX 975. NET. 3.95





IT'S EASY TO ORDER FROM ALLIED

SHIPPING INFORMATION AND HOW TO ESTIMATE CHARGES

PARCEL POST: Size and weight limits will vary depending on your postal zone from Chicago and the type of post office area in which you live. Items not mailable are identified by "U" or "Z" in our stock numbers (as in 99 SZ 016 or 91 SU 657). See explanation in column at left.

Include Money for Postage and Insurance. Please send enough money to cover merchandise, postage and insurance on parcel post orders. Catalog gives approximate shipping weights. If you send too much, **we will refund every penny not used.** In case of insufficient remittance we ship C.O.D. for balance. To protect you we insure all parcel post. Allow for insurance:

Up to \$5.00.....5c	\$10.01 to \$25.00.....15c	\$50.01 to \$100.00.....30c
\$5.01 to 10.00.....10c	25.01 to 50.00.....20c	100.01 to 200.00.....35c

HOW TO ORDER

Use our order blanks or your own purchase order forms or stationery. Please fill in all information requested on our order blank. If you use your own order forms or stationery, show our stock number, quantity, name of item, manufacturer's type number and price. Remit to cover the full amount of the merchandise, plus postage and insurance for parcel post shipments. Don't worry about sending too much. **Every cent extra will be refunded.**

"U" AND "Z" ITEMS SHIPPED EXPRESS

The letter "U" or "Z" in our stock numbers (as in 99 SZ 016 or 91 SU 657) identifies items which are fragile or exceed parcel post size or weight limits. Such items are shipped by express or the best low cost method. ("U" items will be shipped by package delivery truck in Chicago and Zones 1 and 2, at Parcel Post rates.)

HOW TO SEND MONEY

The best way to send money is by post-office or express money order, bank draft or check. Avoid sending coin or currency, but if necessary, be sure to register your letter. Please do not remit in stamps except if necessary on very small orders. For rush handling, telegraph your order and money.

ABOUT C.O.D. ORDERS

You will save money by sending cash in full with your orders. On parcel post C.O.D. shipments, the Post Office charges a C.O.D. collection fee and also a money order fee for forwarding the C.O.D. amount to us. (This is in addition to regular postage; see C.O.D. fee and money order tables below.) Similar fees are collected on express and freight C.O.D. shipments. It will pay you to remit in full and save the C.O.D. charges. We will refund every penny not used. If a C.O.D. shipment is unavoidable, your order should be for a minimum of \$5.00, with a deposit of at least 20%. Please include full remittance with any orders for less than \$5.00.

PARCEL POST C.O.D. FEES

\$0.01 to \$5.00...30c	\$50.01 to \$100.00 80c
5.01 to 10.00...40c	100.01 to 150.00 90c
10.01 to 25.00...60c	150.01 to 200.00 1.00
25.01 to 50.00...70c	

MONEY ORDER FEES

From \$0.01 to \$ 5.00.....15c
From 5.01 to 10.00.....20c
From 10.01 to 100.00.....30c

HOW TO ESTIMATE PARCEL POST CHARGES

Up to 16 ounces, all zones, allow 3c for first 2 ounces, 1½c for each additional ounce

The post office charges a fraction of a pound as a full pound. For example, if the total weight is 5 pounds and 1 ounce to Zone 4, postage would be for 6 pounds (59¢).

WEIGHT IN POUNDS	Chicago	1st & 2nd Zone, up to 150 mi.	3rd Zone 150 to 300 mi.	4th Zone 300 to 600 mi.	5th Zone 600 to 1000 mi.	6th Zone 1000 to 1400 mi.	7th Zone 1400 to 1800 mi.	8th Zone Over 1800 mi.
1	.18	.23	.23	.24	.26	.28	.30	.32
2	.20	.27	.29	.31	.36	.40	.46	.51
3	.21	.31	.34	.38	.45	.52	.61	.69
4	.23	.35	.39	.45	.54	.64	.76	.87
5	.24	.39	.44	.52	.63	.76	.91	1.05
6	.26	.43	.49	.59	.73	.88	1.06	1.23
7	.27	.47	.54	.66	.82	1.00	1.22	1.41
8	.29	.51	.60	.73	.91	1.12	1.37	1.59
9	.30	.55	.65	.80	1.00	1.24	1.52	1.77
10	.32	.59	.70	.87	1.10	1.36	1.67	1.95
11	.33	.63	.75	.93	1.19	1.48	1.82	2.13
12	.34	.67	.80	1.00	1.28	1.60	1.98	2.31
13	.36	.71	.85	1.07	1.37	1.72	2.13	2.49
14	.37	.75	.90	1.14	1.47	1.84	2.28	2.67
15	.39	.79	.96	1.21	1.56	1.96	2.43	2.85
16	.40	.83	1.01	1.28	1.65	2.08	2.58	3.03
17	.42	.87	1.06	1.35	1.74	2.20	2.74	3.21
18	.43	.91	1.11	1.42	1.84	2.32	2.89	3.39
19	.45	.95	1.16	1.49	1.93	2.44	3.04	3.57
20	.46	.99	1.21	1.56	2.02	2.56	3.19	3.75
For Each Extra Lb.	Add 1½c	Add 4c	Add 5c	Add 7c	Add 9¼c	Add 12c	Add 15¼c	Add 18c

Over 20 pounds shipped express or truck. See column at left.

EXPRESS: Please remit full amount for merchandise, but do not send any money for express charges with your order. All transportation charges are collected on delivery at no extra cost to you. All "U" and "Z" items (see column at left) are usually shipped by express. In addition, to assure safe arrival, we ship by express many hi-fi units, communications equipment, sound systems, transmitting and TV tubes, recorders, test units, and other fragile merchandise. If there is no agent at your location, please specify your nearest express office. Express rates include insurance.

HOW TO ESTIMATE EXPRESS CHARGES

(Rates are about 10% higher to eastern states.)

Weight Pounds	Maximum Distance in Miles							
	50	150	300	500	750	1000	1500	2250
5	2.01	2.01	2.01	2.01	2.01	2.08	2.22	2.41
10	2.01	2.01	2.08	2.24	2.37	2.51	2.77	3.17
15	2.01	2.08	2.30	2.53	2.72	2.92	3.33	3.94
20	2.03	2.23	2.52	2.82	3.08	3.35	3.90	4.70
25	2.12	2.37	2.72	3.11	3.45	3.79	4.45	5.46
35	2.32	2.66	3.16	3.69	4.16	4.63	5.57	6.99
45	2.51	2.93	3.60	4.27	4.89	5.49	6.70	8.52
55	2.69	3.22	4.02	4.87	5.60	6.34	7.82	10.04
70	2.98	3.66	4.67	5.73	6.68	7.62	9.51	12.33
80	3.17	3.95	5.11	6.32	7.38	8.47	10.63	13.85
For Each 100 Lbs.	3.55	4.51	5.98	7.48	8.83	10.17	12.86	16.90

AIR SHIPMENTS: We will ship your order by Air Parcel Post, Air Express or Air Freight if you instruct us to do so. Air Parcel Post rates are given below. Consult your local express office for Air Express charges, and your nearest commercial airport office for Air Freight rates. Air Parcel Post size and weight limits are 70 lbs. and 100", length and girth combined.

AIR PARCEL POST RATES

ZONES	1, 2 & 3	4	5	6	7	8	U. S. Territories, Possessions and APO & FPO Addresses, 80c per lb.
1st Lb.	60c	65c	70c	75c	75c	80c	
For Each Extra Lb.	Add 48c	Add 50c	Add 55c	Add 64c	Add 72c	Add 80c	

FREIGHT: If speed is not essential, freight is cheapest on heavy shipments. Minimum charge is for 100 pounds. For truck freight, you may specify the truck line you prefer.

IMPORTANT ORDER INFORMATION

Every item you buy from us must satisfy in every way—or we want you to return it at once for exchange, repair or refund. See Page 1 for full details of our guarantees which protect you on every purchase.

**ALLIED'S
GUARANTEE
TO YOU**

CASH TERMS

Our general terms of sale are cash with order. You save payment of C.O.D. fees by including full remittance with your order. Every penny not used is refunded. If desired, we will ship C.O.D. See opposite page for C.O.D. orders.

NEW EASY PAY TERMS

The new minimum is only \$20.00 and you can buy anything in this catalog (except tubes and parts) for only 10% down. Your application form is on the back of our order blanks. Get what you want **now** on easy terms. See Page 444 for details.

OPEN ACCOUNTS

We ship on open account to well-rated firms, schools, institutions and government agencies. Firms without a published rating may apply for an open account by submitting three trade or bank references. Terms are net, 10 days, E.O.M.

IF IT IS NECESSARY TO WRITE TO US . . .

On cash orders, we return your original order and all related papers. Before writing us, please check explanations on your order and attached papers. If you do find it necessary to write us, please include all order papers and correspondence that apply. If you do not have the order papers, be sure to give in detail the stock numbers and descriptions of the items ordered and the same name and address as on your original order. **On Easy Payment or Open Account orders,** only your invoice or account number is necessary.

HOW TO RETURN MERCHANDISE

Please include your instructions with your shipment, pack the merchandise carefully and insure.

On parcel post, place your instructions, all order papers and correspondence in an envelope **inside** your package. On the outside, mark "First Class Mail Enclosed" and affix additional first class postage for the enclosure.

On express shipments, place all papers in a **stamped** and sealed envelope inside the package. Date this envelope and draw several lines across postage stamp with a pen.

Your name and address should be plainly marked on your enclosure as well as on the outside of your package. **Note:** Merchandise not regularly stocked, but obtained especially for you, may not be returned for refund or exchange.

ABOUT OUR PRICES

You Pay NET Catalog Prices. Catalog prices are net, f.o.b. Chicago, except where otherwise indicated. All trade and cash discounts have already been deducted from every price. Our NET catalog prices are the prices you pay.

Your Order is Shipped at the Current Price. Prices in this book replace prices in all previous Allied catalogs and are subject to change without notice. **Orders will be filled at prices in effect at time of shipment.**

You Get Immediate Benefit of Any Price Reductions. If prices are reduced during the life of this catalog, we always give you the advantage of the lower prices and refund the difference. We reserve the right to add any Federal, State or Local taxes now in effect or which may be levied after this book is printed.

TELEPHONE ORDERS

Phone: HAymarket 1-6800

We have a specially trained staff to handle your telephone orders. If you are in a hurry for any merchandise, telephone your order. It will be filled and shipped promptly. For extra-fast service, specify Air Shipment (see opposite page).



VISIT OUR CENTRAL SALESROOMS AND HI-FI STUDIOS

Salesrooms where you can obtain all merchandise listed in this catalog, as well as High Fidelity demonstration studios, are located in our main building at 100 N. Western Ave. You are invited to come in to see us. Enjoy a thrilling Hi-Fi demonstration, check the Knight Kits wired for your inspection, and examine tape recorders, tools, test instruments, sound equipment, and the great variety of other merchandise we have on display.

Our location at Western Avenue and Washington Blvd. is only a short distance from Chicago's Loop.

HOURS: Monday and Thursday, 9:00 A.M. to 9:30 P.M.

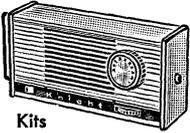
Other weekdays, and Saturday, 9:00 A.M. to 5:30 P.M.

Allied Radio Corporation, 100 N. Western Ave., Chicago 80, Illinois



**100 N. WESTERN AVE.
CHICAGO 80, ILL.**

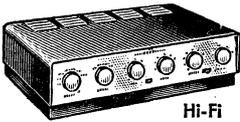
NOW... ENJOY INCREASED BUYING POWER WITH ALLIED'S *New Easy Payment Plan*



Kits



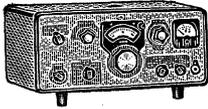
Recorders



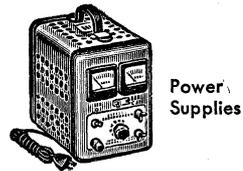
Hi-Fi



Public Address



Ham Gear



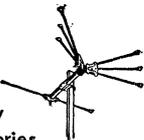
Power Supplies



Test Equipment



Tools



TV Accessories



- ✓ Only 10% DOWN
- ✓ Minimum Order Now Only \$20.00
- ✓ No Down Payment With ADD-ON Purchases

ALL MERCHANDISE IN THIS CATALOG, EXCEPT PARTS AND TUBES, IS SOLD ON OUR NEW EASY PAY PLAN. USE SEPARATE ORDER BLANK FOR PARTS AND TUBES ON REGULAR TERMS.

ALLIED'S NEW EASY PAYMENT TERMS

Minimum Order—\$20.00 total cash value.

Down Payment—10%. A bigger down payment will reduce carrying charge and monthly payments. No down payment required on add-ons for less than \$100.00.

Carrying Charge—See table. No carrying charges if paid in 60 days. See below.

Monthly Payments—See table. All monthly payments are for equal amounts, except last payment, which is for the odd amount remaining due. Minimum \$5.00 per month.

NO CHARGES IF PAID IN 60 DAYS

You may take the full time to pay if you wish, but if you complete payments on your contract within sixty days after shipment you will receive a full refund of carrying charges. A partial refund is made for full advance payment after sixty days.

HOW TO BUY ON EASY PAY PLAN

Use your Allied order blank to enter the merchandise you want to buy on easy terms. Fill in the answers to the simple questions on the back of the order blank and sign it. Attach your remittance for the down payment (10% or more) and mail your order. It will be shipped as soon as your credit is approved. The first payment is not due until at least 30 days after shipment. Your invoice will have full details. No red tape—no finance companies to deal with—no hidden charges. Any responsible person of legal age, with a steady income, can get credit approved. Additional order blanks and our Easy Pay Bulletin explaining our Payment Plan in detail, will be sent on request.

"ADD-ON" PURCHASES

Once your credit is established with Allied, you can "add on" to your account with purchases of \$20 or more without any down payment if the "add on" is for less than \$100.00. Simply list the items you want (except tubes or parts) on one of our order blanks, write "add to my account" and give your account number. Please be sure to sign the Easy Payment agreement on the reverse side. After the amount of your new purchase and carrying charge are added, you pay on only one account. In most cases, you will continue to pay the same amount monthly. If your new unpaid balance is substantially different from the original amount, a new monthly payment will be set up.

Easy Payment Table

If Unpaid Balance is	Carrying Charge	Monthly Payment	If Unpaid Balance is	Carrying Charge	Monthly Payment
Up to \$ 20.00	\$ 2.00		\$130.01 to \$140.00	\$14.00	\$11.00
20.01 to 30.00	3.00	\$ 5.00	140.01 to 160.00	16.00	12.00
30.01 to 40.00	4.00		160.01 to 180.00	18.00	13.00
40.01 to 50.00	5.00		180.01 to 200.00	20.00	14.00
50.01 to 60.00	6.00		200.01 to 225.00	22.50	15.00
60.01 to 70.00	7.00	7.00	225.01 to 250.00	25.00	16.00
70.01 to 80.00	8.00		250.01 to 275.00	27.50	17.00
80.01 to 90.00	9.00	8.00	275.01 to 300.00	30.00	19.00
90.01 to 100.00	10.00		300.01 to 350.00	35.00	21.00
100.01 to 110.00	11.00	10.00	350.01 to 400.00	40.00	24.00
110.01 to 120.00	12.00		400.01 to 450.00	45.00	27.00
120.01 to 130.00	13.00		450.01 to 500.00	50.00	30.00

NOTE: On orders over \$500.00, send down payment of 10% or more. Payments and carrying charge will be in proportion to amounts shown on chart.

NOTE: Allied's Easy Payment Plan is offered to residents of the United States, Canada, Hawaii, and Puerto Rico. It does not cover shipments to other U. S. Possessions or Territories, or other countries.

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NEW "IMPERIAL" SERIES DISKCHANGERS

AS LOW AS
\$44.10

- Webcor's Newest & Finest Changers
- Feature New Stereo-Monaural Switch
- New Golden-Beige & Brown Styling
- Exclusive "Magic Mind" Operation

Ingenious design—beautiful styling—and flawless hi-fi performance from stereo or conventional records! Deluxe features include: pre-wired pickup arm for stereo and monaural use; stereo-monaural switch; "Magic Mind" intermix of 33½ and 45-rpm records, in any size and sequence; automatic changing of 16⅓ or 78-rpm records; scientifically designed mainplate with anti-rumble ribs; illuminated speed selector; etc. With AC cord and plug, and phono cable with 2 stereo pin plugs. *Less base.* For 110-120 v., 60 cycle AC. Shpg. wt., 11½ lbs.

TR1931-27. With 2 plug-in heads; less cartridge.
89 RX 512. List, \$60.00. **NET** **\$44.10**

TR1931-21. With G.E. GC-7 magnetic stereo cartridge. Has single .0007" diamond needle for stereo and conventional LP records.

89 RX 513. List, \$85.00. **NET** **\$62.47**

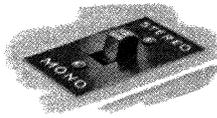
TR1931-1. With new turnover ceramic stereo cartridge. Has .0007" diamond needle for stereo and LP records, and .003" sapphire needle for 78's.

89 RX 514. List, \$77.50. **NET** **\$56.97**



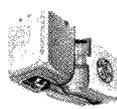
latest **WEBCOR** verified high-fidelity diskchangers

PLAY STEREO AND MONAURAL RECORDS



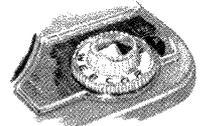
STEREO-MONAURAL SWITCH

Tops in convenience! Just flip it to play latest stereo records or conventional records.



STEREO CARTRIDGE

For use with new stereo discs as well as any microgroove (LP) record. Your choice of ceramic or magnetic type.



"MAGIC MIND" INTERMIX

Stack up any assortment of 33's and 45's—turn on the "Magic Mind"—the rest is automatic!



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TS1942-1. On base, with turnover ceramic stereo cartridge. Has .0007" sapphire needle for stereo and conventional LP's; .003" sapphire needle for 78's. 15 lbs.

89 RX 515. List, \$58.50. **NET** **\$43.00**

TR1941-1. As above, but less base. Wt., 10½ lbs.

89 RX 516. List, \$49.95. **NET** **\$36.71**

TS-1942-21. On base, with G.E. CL-7 magnetic stereo cartridge. Has single .0007" sapphire needle for stereo and conventional LP records. Shpg. wt., 15 lbs.

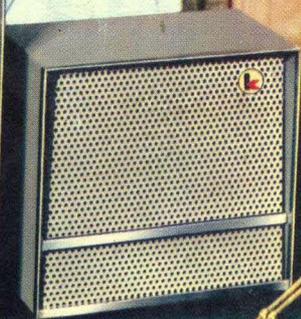
89 RX 517. List \$68.50. **NET** **\$50.35**

TR1941-21. As above, but less base. Wt., 10½ lbs.

89 RX 518. List, \$59.95. **NET** **\$44.06**



See Page 82 for Complete Listings of WEBCOR Changers and Accessories



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- Printed Circuit Bandswitch
- Printed Circuit RF & IF's

Used by licensed radio Amateurs for communications purposes—enthusiastically recommended for the shortwave listener. The remarkable sensitivity and selectivity of the Knight-Kit Amateur Communications Receiver give it an "international reach"; enables you to tune in stations from all over the world with surprising ease. Employs two printed circuit boards and the exclusive Knight-Kit printed circuit bandswitch to greatly simplify assembly and assure outstanding, professional performance. Pre-punched chassis and clearly written instruction manual, plus giant-size picture diagrams, make it easy for anyone with even a minimum of experience to build this fine receiver.

Covers 540 kc to 30 mc in 4 ranges (includes standard AM broadcast band). Calibrated electrical bandsread on all Amateur bands from 80-10 meters. Slug-tuned hi-Q coils. Built-in Q-multiplier peaks desired signal or nulls interference (*60-db notch really takes out interference*). Vernier dials—no strings. Sensitivity is 1.5 μ v for 10 db s/n ratio. Selectivity variable from 300 cps to 4.5 kc. Exalted BFO for SSB. Coaxial and screw-terminal antenna connectors. Metal cabinet, 10x10 $\frac{3}{4}$ x16". Less speaker and S-meter. For operation from 110-125 volts, 50-60 cycle AC. Shpg. wt., 30 lbs.

83 YU 726. NET 104.50

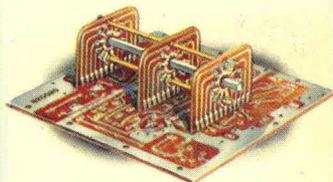
SPEAKER FOR ABOVE. 4" speaker in metal cabinet—perfectly styled to match the receiver. Special-design cone reduces static and peaks voice frequencies for clearest reception. 8 ohms. Shpg. wt., 4 lbs.

83 Y 728. NET 7.50

S-METER KIT. For Knight-Kit receiver, above. Shpg. wt., 1 lb.

83 Y 727. NET 10.75

EXCLUSIVE FEATURES FOR
FASTER, EASIER BUILDING
WITH PROFESSIONAL RESULTS



Practically all critical wiring is already completed. Employs two printed circuit boards and—for the first time in any communications receiver, regardless of cost—the exclusive Knight-Kit printed circuit bandswitch. All you do is mount the parts and solder them in place—point-to-point wiring is virtually eliminated—every kit performs with the same efficiency as the laboratory model.

TOP-QUALITY AT FAR LESS
THAN FACTORY-BUILT COST

**THERE'S A MONEY-SAVING KNIGHT-KIT FOR EVERY NEED
INSTRUMENTS—HI-FI—HOBBY—OTHER AMATEUR KITS**

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