

BULLETIN 1154B

HIGH SPEED TAPE PUNCH SET
(BRPE)
PARTS



TELETYPE[®]
CORPORATION

5555 TOUHY AVENUE, SKOKIE, ILLINOIS

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592-802-801TC	High Speed Tape Punch Base (BRPEB6 and up) and High Speed Tape Punch Cover (BRPEC) - Parts	*2	December 1970
592-802-802TC	High Speed Tape Punch (BRPE1 to BRPE5), High Speed Tape Punch Base (BRPEB2 to BRPEB4) and High Speed Tape Punch Cover - Parts	1	May, 1965
592-806-800TC	High Speed Tape Receiver Cabinet (AC) and Modules (TRD and TRSC) - Types 1 and 2 - Parts	3	September, 1968

NOTE:

*Indicates revised sections
For Motors refer to Bulletin 295B

HIGH SPEED TAPE PUNCH (BRPE)

PARTS

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FIGURE 1. REAR PLATE

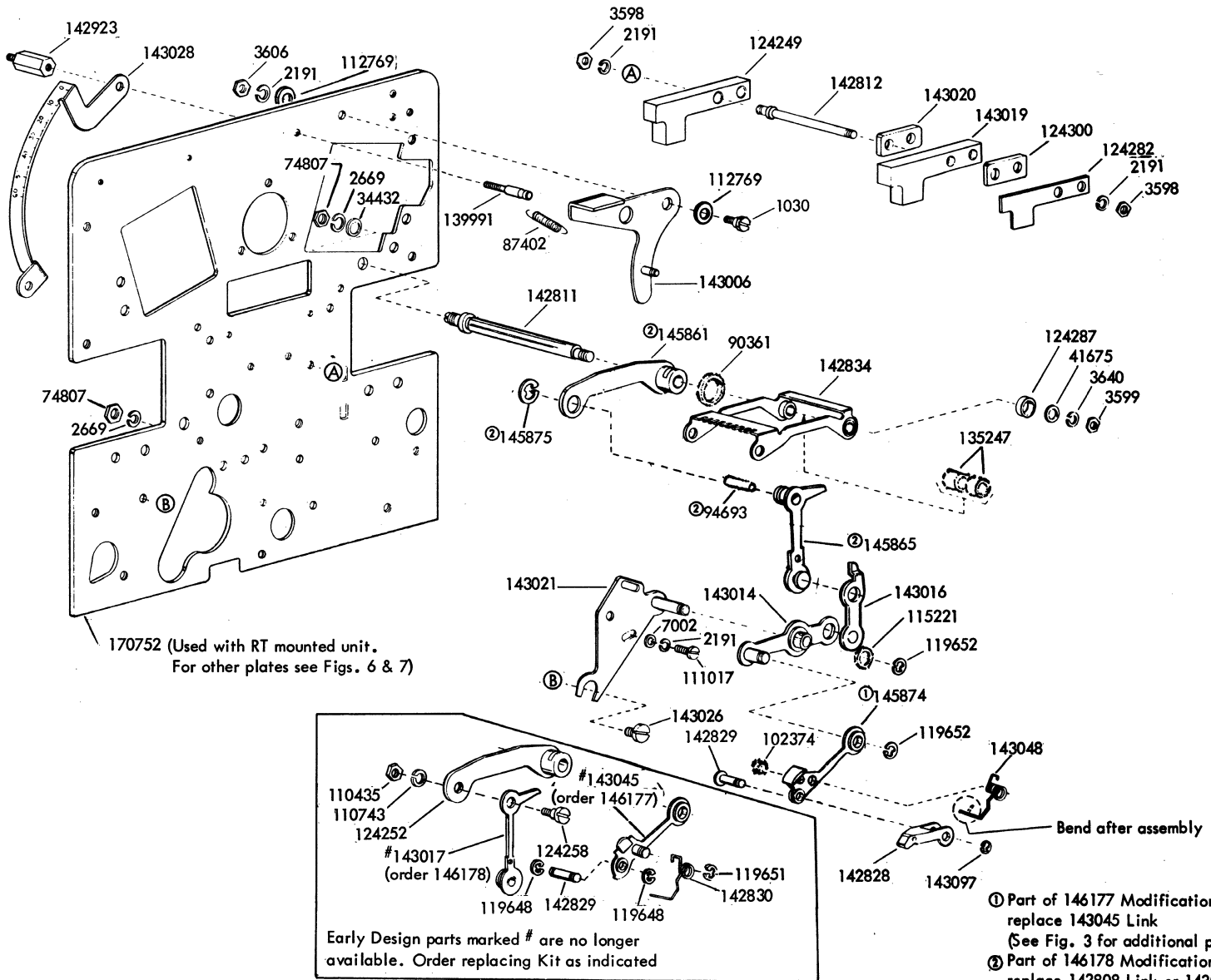
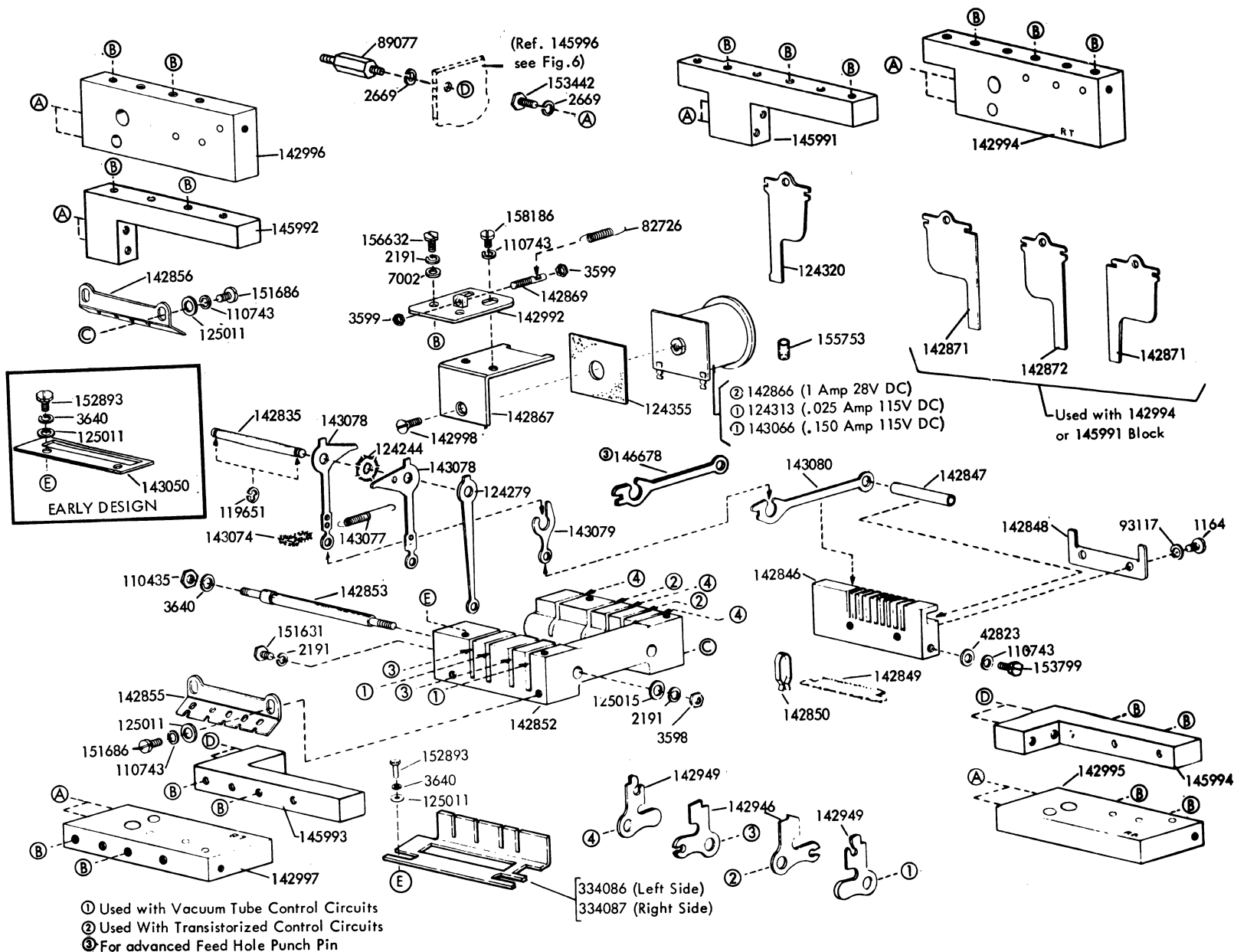


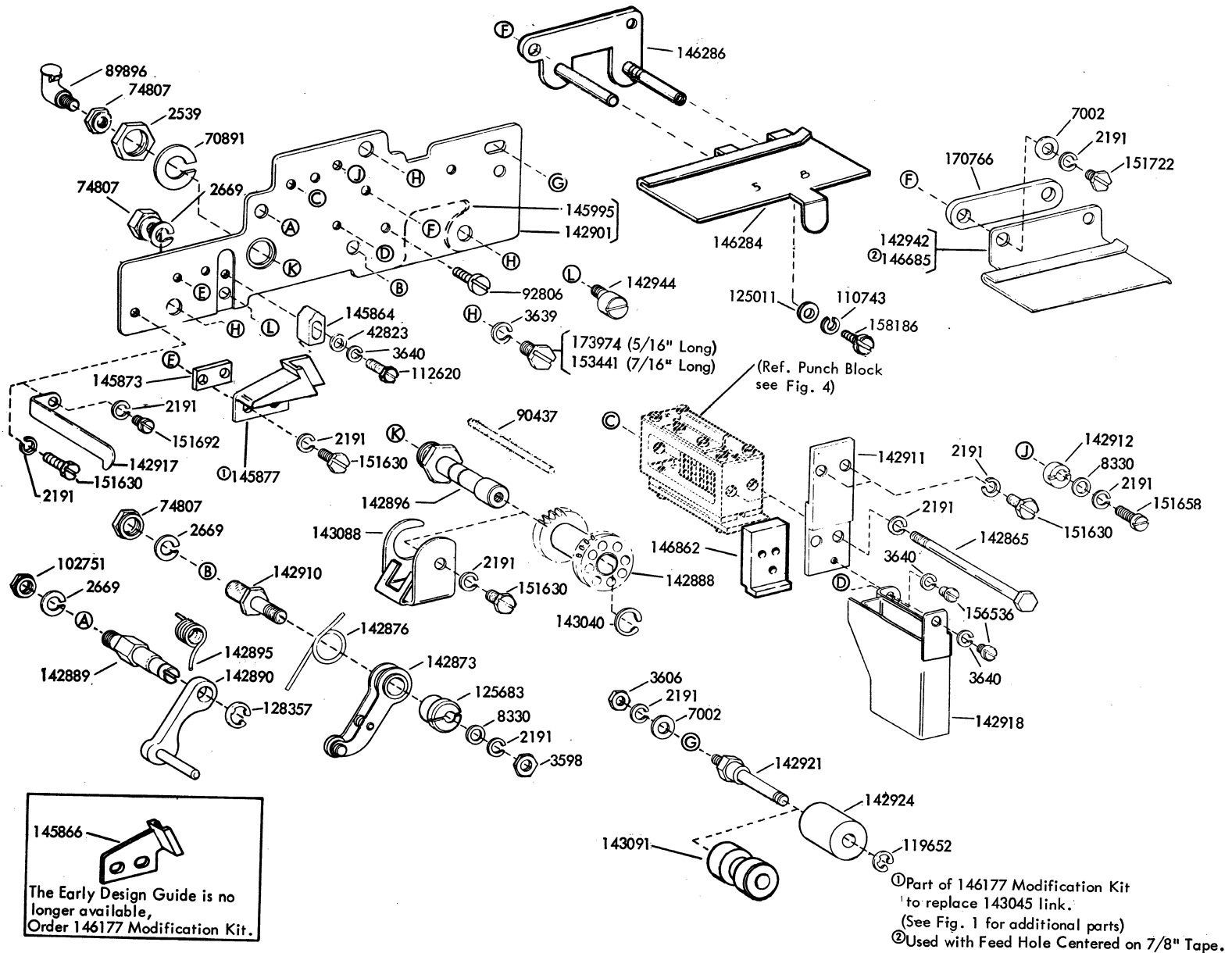
FIGURE 2. MAGNET AND TOGGLE LINK MECHANISM

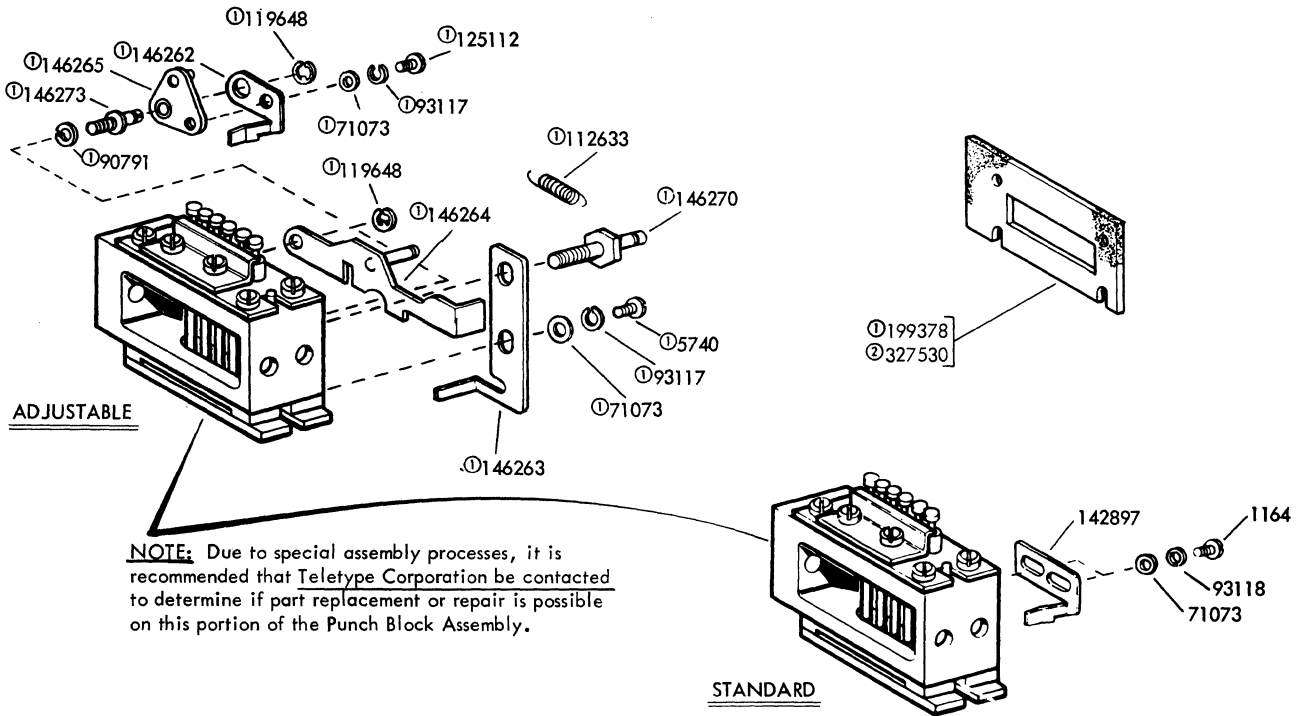


- ① Used with Vacuum Tube Control Circuits
- ② Used With Transistorized Control Circuits
- ③ For advanced Feed Hole Punch Pin

- ④ 334086 (Left Side)
- ④ 334087 (Right Side)

FIGURE 3. PUNCH AND FEED MECHANISM





- ① Peculiar to 146261 Punch Block Assembly
- ② Peculiar to 146677 Punch Block Assembly

BLOCK ASSEMBLY NO.	CODE LEVEL	FEED HOLE		BIASING SPRING	NOTES:
		IN LINE	ADVANCED		
143056	6-8	X		142897	7/8" or 1" TAPE
145808	8	X		142897	11/16" TAPE, 0 & 6th PULSE PIN EDGE NOTCHING, 7th PULSE PIN INOPERATIVE
146261	5-8	X		146262	ADJUSTABLE FOR 11/16" OR 1" TAPE
146677	6		X	142897	7/8" TAPE, ADVANCED FEED HOLE CENTERED ON TAPE
170751	5	X		142897	11/16" TAPE

NOTE: The Punch Block Assemblies shown on this page are for BRPE6 and up.

FIGURE 4. PUNCH BLOCK ASSEMBLIES

FIGURE 6. REAR PLATE AND MAGNET PICK-UP

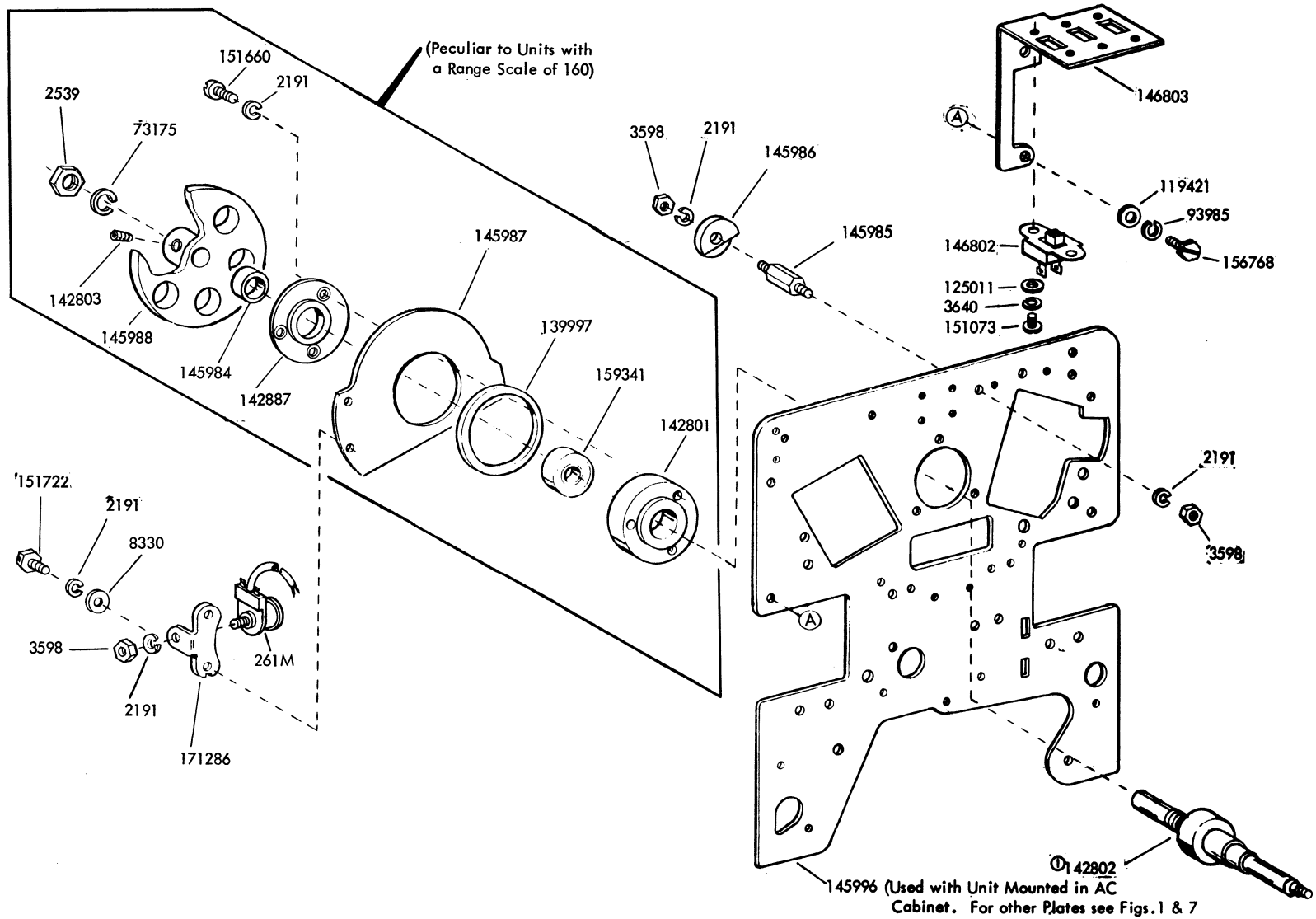
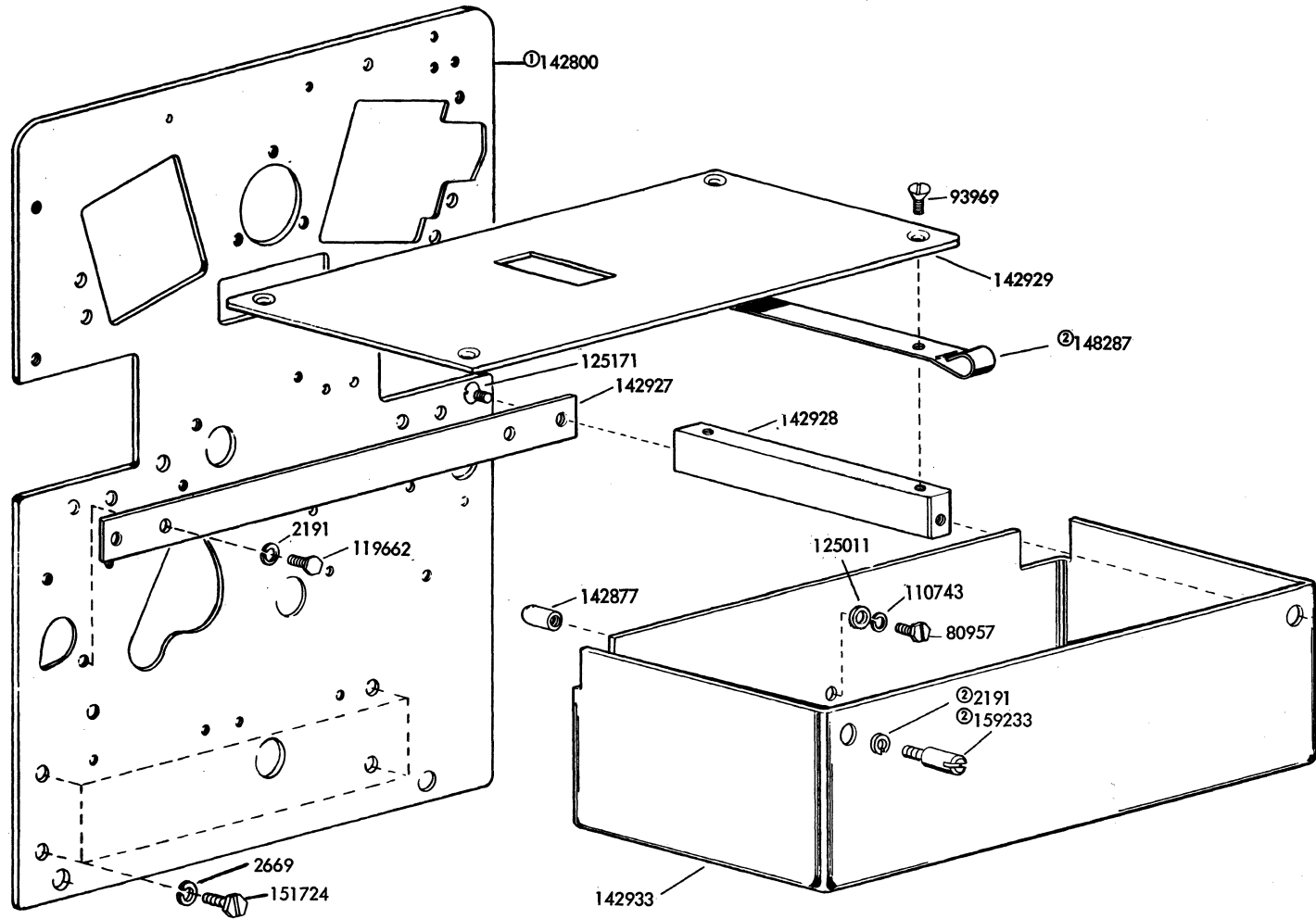
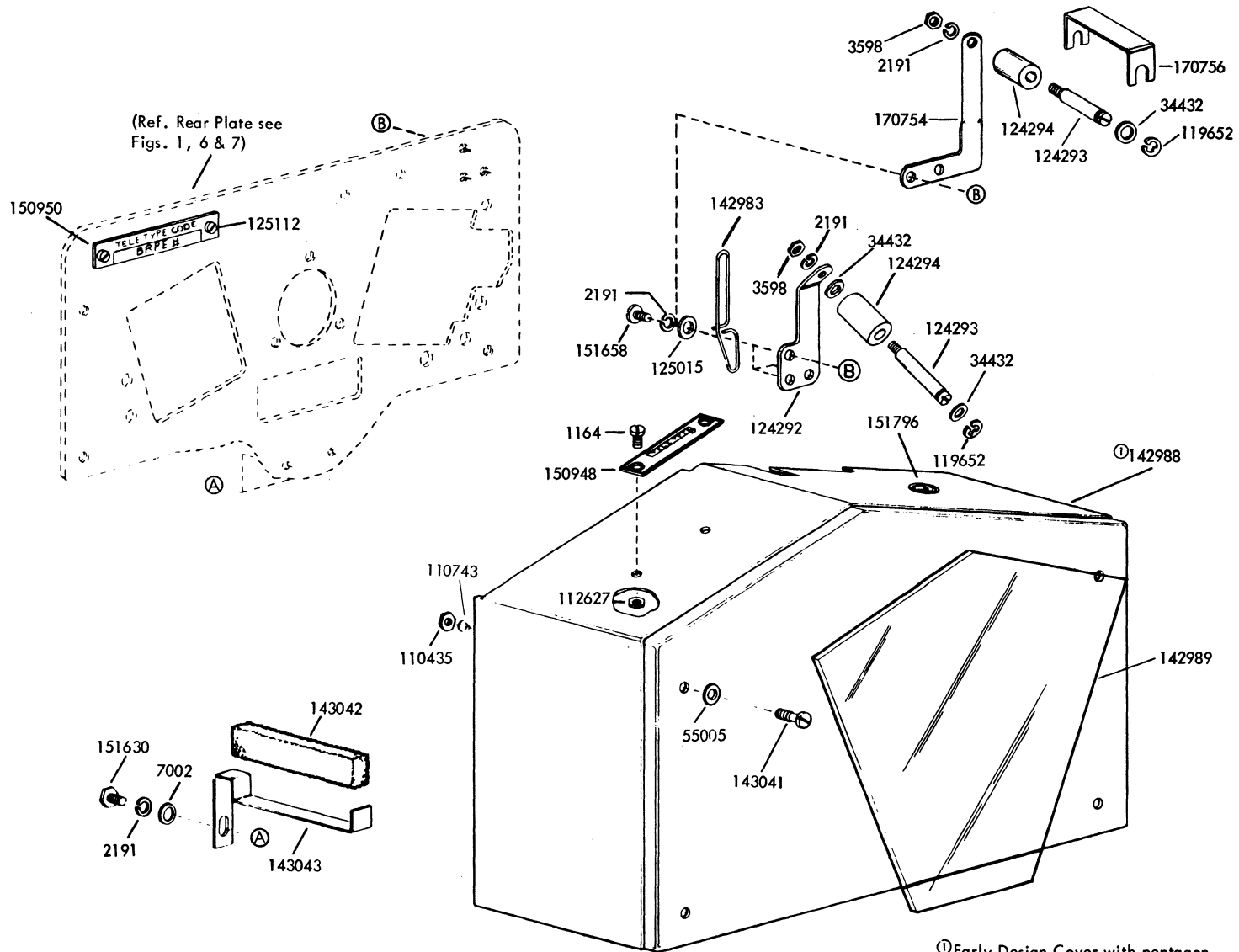


FIGURE 7. CHAD BOX

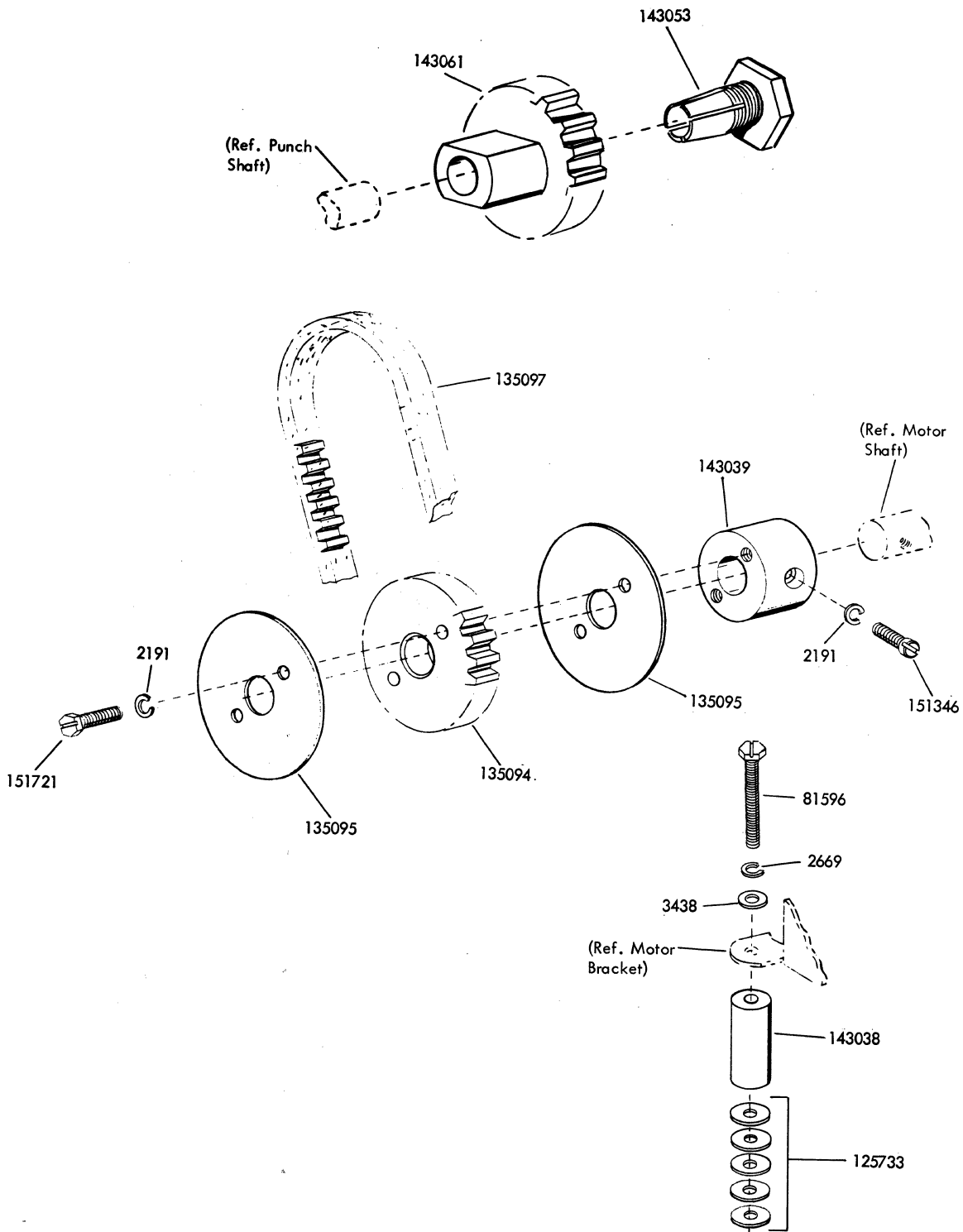


①Used with Self-Contained Sets.
For other Plates see Figs. 1 & 6.
②Part of 148288 Modification Kit to provide
improved mounting for Chad Box
(Specification 501685)

FIGURE 8. FRONT COVER

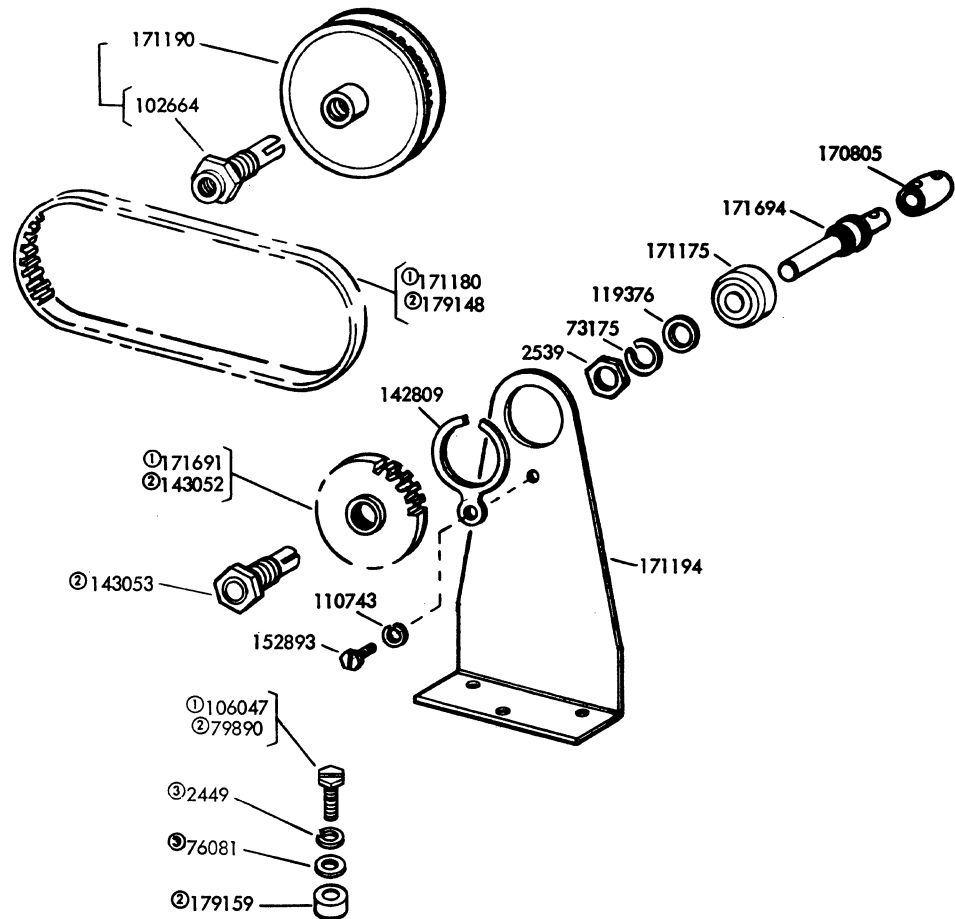


① Early Design Cover with pentagon hole is no longer available. However the window is available as a replacement part.



SPECIFICATION 5944S.

FIGURE 9. 143062 MODIFICATION KIT TO PROVIDE MOTOR MOUNTING AND DRIVE PARTS
(63.3 CHARACTERS-PER-SECOND)



① Peculiar to 171826 Modification Kit (600 Baud Operation)
 ② Peculiar to 179149 Modification Kit (750 Baud Operation)

FIGURE 10. PARTS TO PROVIDE OPERATION OF THE BRPE WITH H/L RT SETS

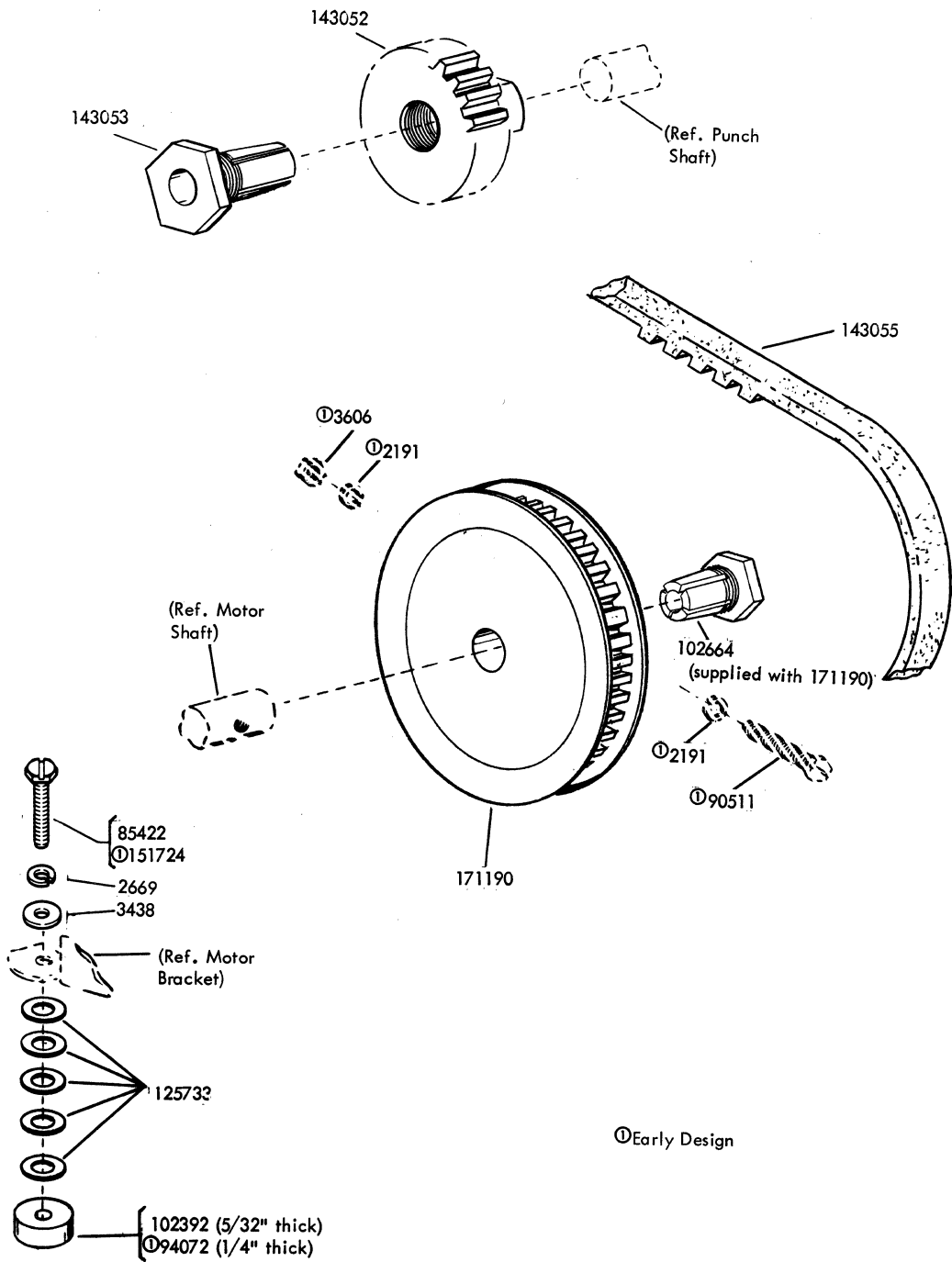
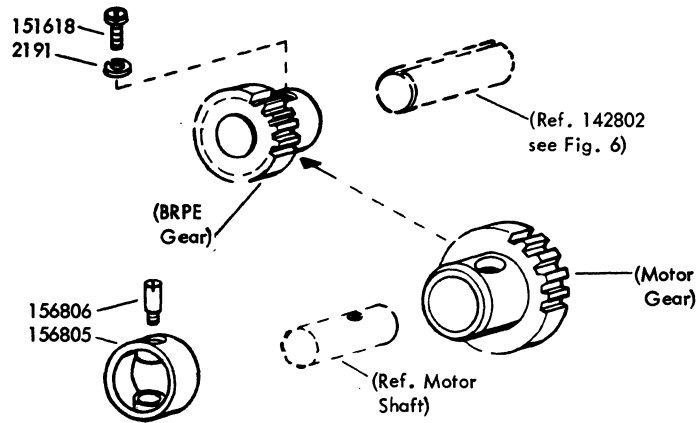


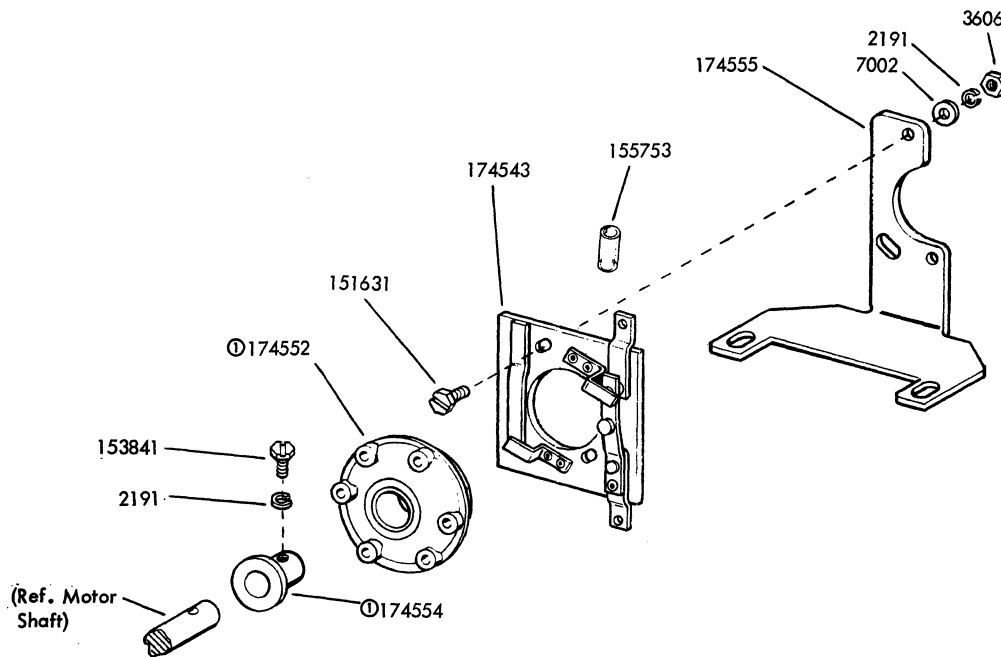
FIGURE 11. 143044 MODIFICATION KIT TO PROVIDE MOTOR MOUNTING AND DRIVE PARTS
(110 CHARACTERS-PER-SECOND)



GEAR CHART				
Gearset No.	BRPE Gear	Motor Gear	① Baud	Cycle
145997	145998 (25T)	145999 (45T)	③ 1050	60
146966	146959 (28T)	146958 (51T)	② 750	60
146947	146949 (28T)	146948 (62T)	② 750	50
195279	195277 (18T)	195278 (39T)	③ 1050	50

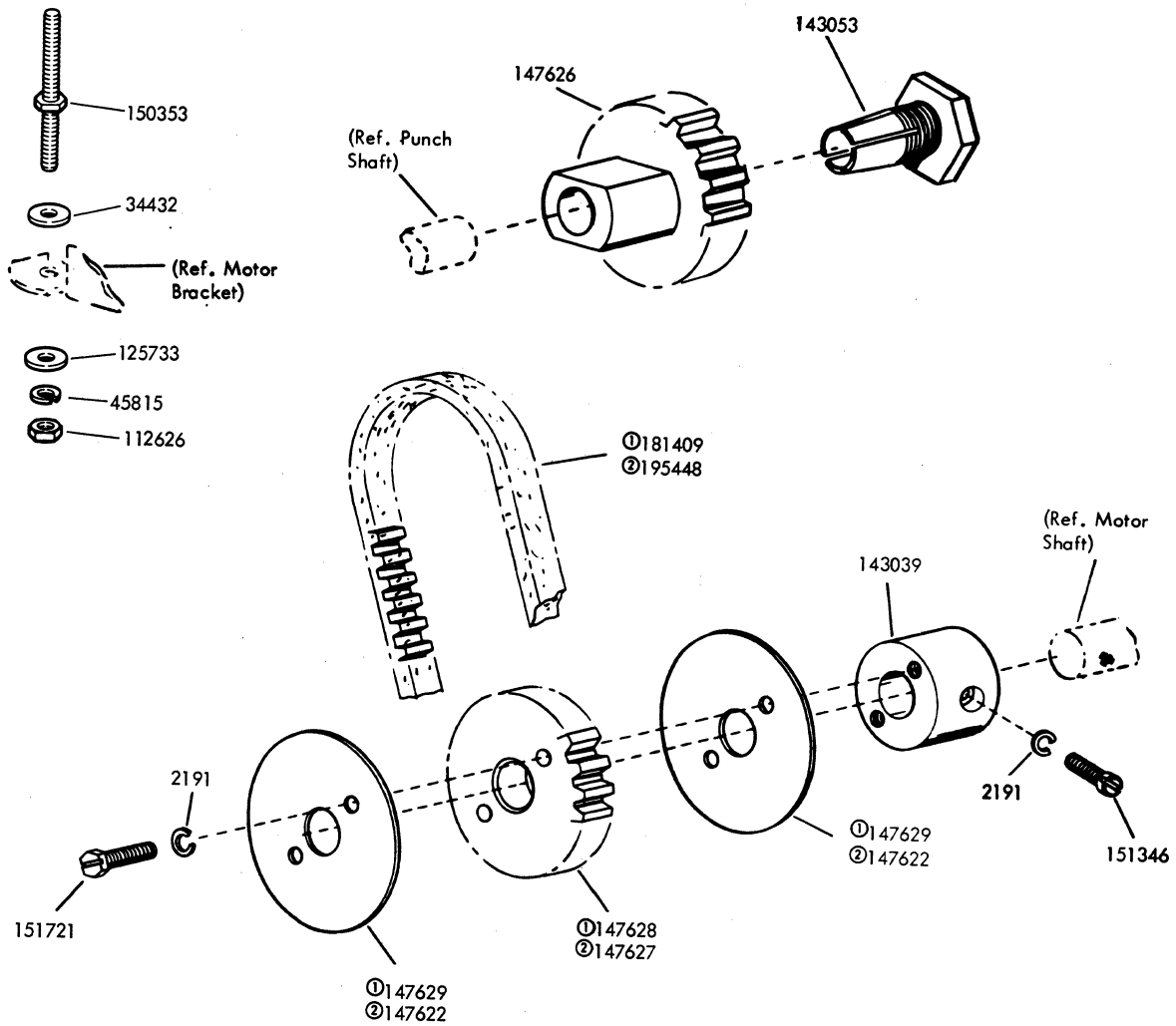
- ① Based on Transmission Speed
- ② Based on 7.00 Unit Code
- ③ Based on 10.00 Unit Code

FIGURE 12. GEARSETS FOR UNITS MOUNTED IN AC CABINETS



①174553 Rotor Assembly

FIGURE 13. 175198 MODIFICATION KIT TO PROVIDE MOTOR RUNNING CONTACTS FOR REPERFORATOR (BRPE)



①Peculiar to 147623
②Peculiar to 147624

FIGURE 14. 147623 (63.3 CHARACTERS-PER-SECOND) AND 147624 (100 CHARACTERS-PER-SECOND) MODIFICATION KITS TO PROVIDE DRIVE PARTS FOR 50 CYCLE OPERATION

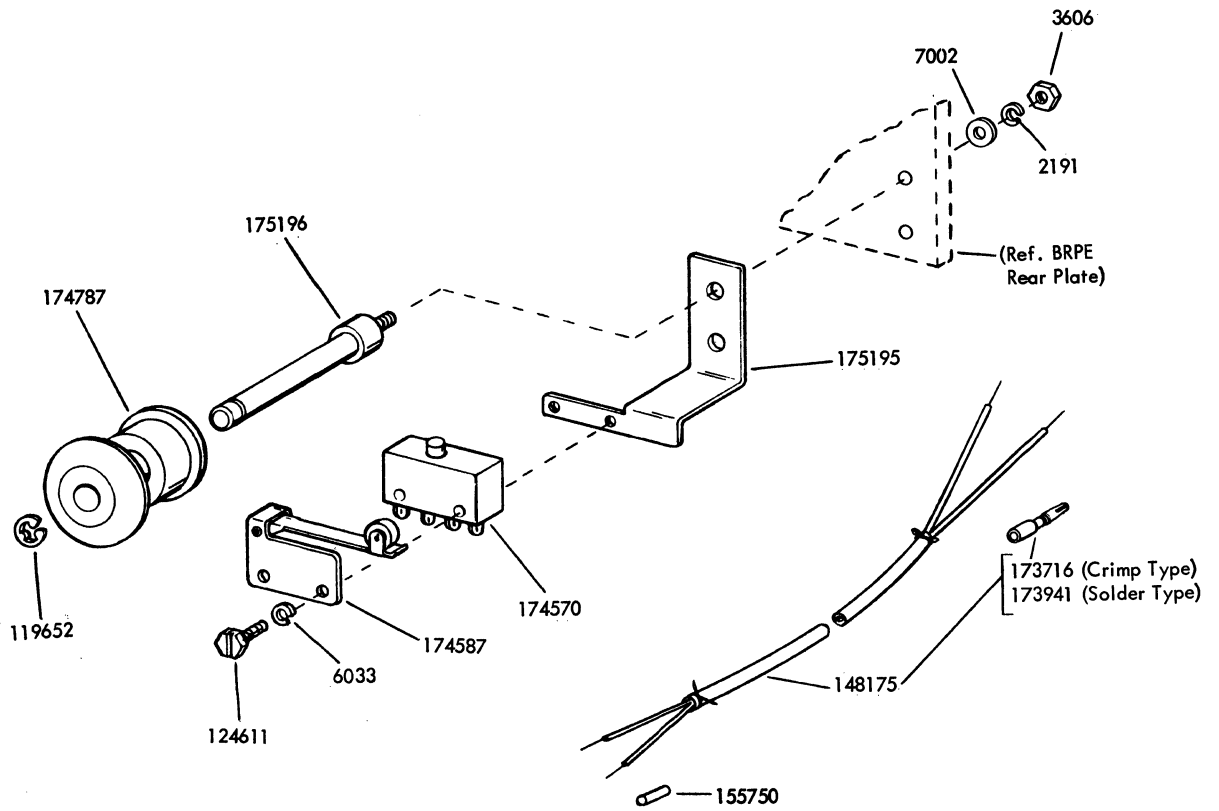
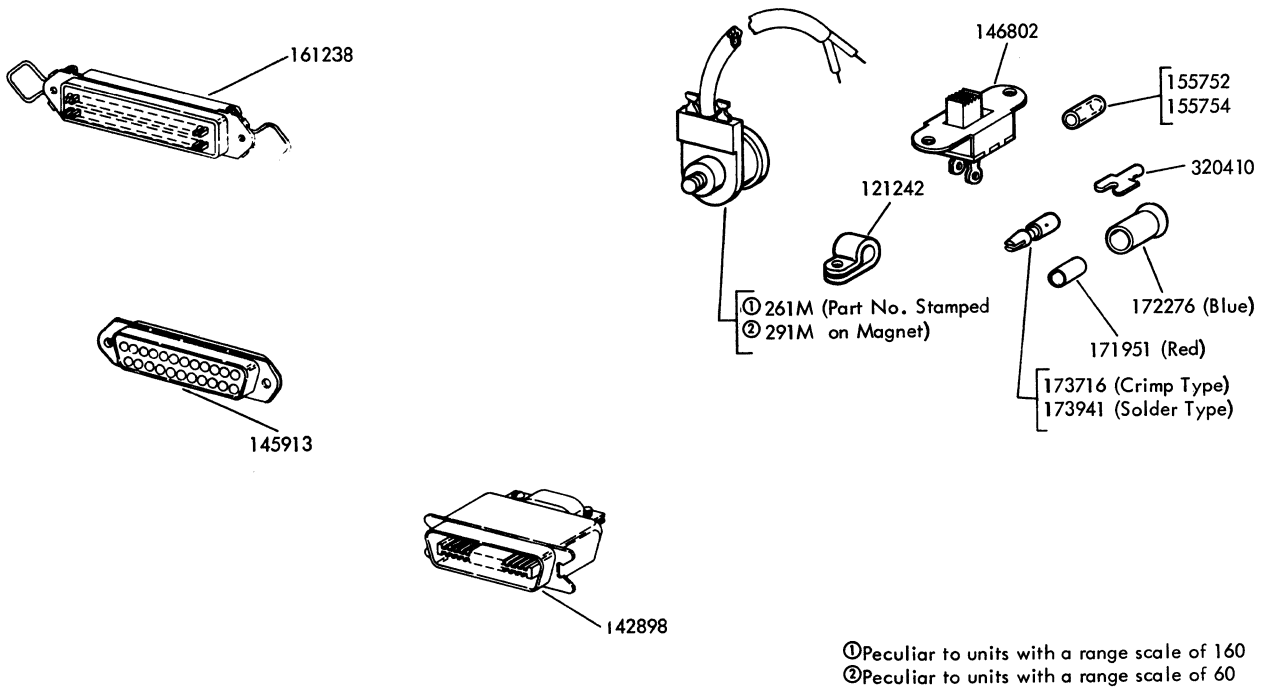


FIGURE 15. 175194 MODIFICATION KIT TO PROVIDE TAPE-OUT CONTACTS AHEAD OF REPERFORATOR (BRPE)



① Peculiar to units with a range scale of 160
 ② Peculiar to units with a range scale of 60

FIGURE 16. CABLE COMPONENTS

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
261M	Coil, Magnet 7,15	90511	Screw, 6-40 x 13/16 Hex 12	124355	Insulator, .010" Thk 3
291M	Coil, Magnet 15			124611	Screw, 8-32 x 3/8 Hex 15
1030	Screw, 6-40 Shoulder 2	90791	Lockwasher 5	125011	Washer, Flat 3,4,7,8
1164	Screw, 2-56 x 3/16 Fil 3,5,9	92806	Screw, 6-40 Shoulder 4	125015	Washer, Flat 3,9
2191	Lockwasher 2,3,4,6 to 10, 12 to 15	93117	Lockwasher 3,5	125112	Screw, 2-56 x 1/8 Fil 5,9
2449	Lockwasher 11	93118	Lockwasher 5	125171	Screw, 10-32 x 1/2 Flat 8
2539	Nut, 3/8-32 Hex 4,5,7,11	93879	Oiler, Felt 6	125683	Bushing, Eccentric 4
2669	Lockwasher 2,3,4,6,8, 10,12	93969	Screw, 4-40 x 3/16 Flat 8	125733	Washer, Flat 10,12,14
3438	Washer, Flat 10,12	93985	Lockwasher 7	128357	Ring, Retaining 4
3598	Nut, 6-40 Hex 2,3,4,7,9	94072	Bushing 12	130690	Washer, Felt 6
3599	Nut, 4-40 Hex 2,3,6	94693	Wick, Felt 2	135094	Pulley, 19T 10
3606	Nut, 6-40 Hex 2,4,12,13, 15	102374	Wick, Felt 2	135095	Retainer, Belt 10
3639	Lockwasher 4	102392	Spacer 12	135097	Belt, 38T 10
3640	Lockwasher 2,3,4,6,7	102664	Hub 11,12	135247	Oiler, Felt 2
5740	Screw, 2-56 x 1/4 Fil 5	102751	Nut, 10-32 Shoulder Hex 4	139957	Bracket 6
6033	Lockwasher 15	106047	Screw, 1/4-32 x 1/2 Hex 11	139958	Disc 6
7002	Washer, Flat 2,3,4,6,9, 13,15	110435	Nut, 4-40 Hex 2,3,9	139962	Flywheel w/Block 6
8330	Washer, Flat 4,7	110743	Lockwasher 2,3,4,6,8,9,11	139991	Post, Spring 2
34432	Washer, Flat 2,9,14	111017	Screw, 6-40 x 5/16 Fil 2	139992	Button 6
41675	Washer, Flat 2	111410	Washer, Flat 6	139997	Washer, Spring 6,7
42823	Washer, Flat 3,4,6	112620	Screw, 4-40 x 1/2 Hex 4	142800	Plate, Rear 8
45815	Lockwasher 14	112626	Nut, 10-32 Hex 14	142801	Housing, Bearing 6,7
55005	Washer, Flat 9	112627	Nut, 2-56 Hex 9	142802	Shaft w/Bearing 7,13
70891	Lockwasher 4	112633	Spring w/Wick 5	142803	Setscrew, 10-32 6,7
71073	Washer, Flat 5	112769	Washer, Flat 2	142805	Spacer, .06" Thk 6
73175	Lockwasher 6,7,11	115221	Washer, Felt 2	142806	Shield, Bearing 6
74807	Nut, 10-32 Shoulder Hex 2,4,6	119376	Washer, Flat 11	142807	Bearing 6
76081	Washer, Flat 11	119421	Washer, Flat 7	142808	Link, Feed Bearing 2,6
76953	Washer, Flat 6	119648	Ring, Retaining 2,5	142809	Clamp, Bearing 6,11
76983	Screw, 4-40 x 1-1/4 Fil 6	119651	Ring, Retaining 2,3	142811	Shaft, Punch Bail 2
79890	Screw, 1/4-32 x 7/8 Hex 11	119652	Ring, Retaining 2,4,9,15	142812	Stud, Toggle Arm 2
80957	Screw, 4-40 x 1/4 Hex 8	119662	Screw, 6-40 Spl 8	142828	Pawl, Feed 2
81596	Screw, 10-32 x 1-3/8 Hex 10	121242	Clamp, 1/8 ID Cable 15	142829	Pin 2
82726	Spring 3	124244	Washer, Felt 3	142830	Spring, Torsion 2
85422	Screw, 10-32 x 15/16 Hex 12	124249	Spacer, .217" Thk 2	142833	Arm, Bearing 6
87402	Spring 2	124252	Link 2	142834	Bail, Toggle Arm 2
89077	Stud 3	124258	Screw, 4-40 Shoulder 2	142835	Shaft, Toggle Arm 3
89896	Oiler 4	124279	Link, Feed Punch 3	142839	Bearing, Ball 6
90361	Washer, Felt 2	124282	Spacer, .044" Thk 2	142840	Clamp, Bearing 6
90437	Wick, Felt 4	124287	Spacer, .156" Thk 2	142841	Counterweight 6
		124289	Bearing, Ball 6	142842	Key 6
		124292	Bracket 9	142844	Spacer, Bearing Arm 6
		124293	Stud 9	142845	Clip, Bearing 6
		124294	Roller 9	142846	Bracket, Link Pivot 3
		124300	Spacer, .056" Thk 2	142847	Shaft, Link 3
		124301	Spacer, .312" Thk 6	142848	Clamp 3
		124313	Magnet Assembly 3	142849	Wick, Felt 3
		124320	Armature 3	142850	Clamp, Spring 3
				142852	Bracket, Arm Stop 3

NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
142853	Stud 3	143006	Lever 2	145984	Spacer, .499" Thk 7
142855	Bracket, Left Spring 3	143007	Pick-up, Magnetic 6	145985	Post 7
142856	Bracket, Right Spring 3	143014	Link 2	145986	Indicator 7
142865	Screw, 6-40 x 2-1/32 Hex 4	143016	Arm, Toggle 2	145987	Disc 7
142866	Magnet Assembly 3	143017	Arm, Toggle 2,6	145988	Flywheel w/Magnet 7
142867	Yoke 3	143019	Spacer, 0.249" Thk 2	145991	Bar, RT Magnet Mounting 3
142869	Screw, 4-40 Spl 3	143020	Spacer, 0.106" Thk 2	145992	Bar, LT Magnet Mounting 3
142871	Armature 3	143021	Plate 2	145993	Bar, LB Magnet Mounting 3
142872	Armature 3	143026	Eccentric 2	145994	Bar, RB Magnet Mounting 3
142873	Arm, Detent 4	143028	Scale 2	145995	Plate 4
142876	Spring, Torsion 4	143038	Spacer 10	145996	Plate, Rear 3,7
142877	Post 8	143039	Hub 10,14	145997	Gearset 13
142880	Plate, Front 6	143040	Ring, Retaining 4	145998	Gear, 25T 13
142882	Clamp, Bearing 6	143041	Screw, 4-40 Spl 9	145999	Gear, 45T 13
142887	Retainer 6,7	143042	Oiler, Felt 9	146177	Modification Kit 2,4
142888	Wheel, Feed 4	143043	Bracket, Oiler 9	146178	Modification Kit 2,6
142889	Post, Tape Arm 4	143044	Modification Kit 1,12	146261	Block Assembly, Punch 5
142890	Arm, Tape 4	143045	Link 2,4	146262	Spring, Biasing 5
142895	Spring, Torsion 4	143048	Spring, Torsion 2	146263	Spring, Biasing 5
142896	Shaft, Feed Wheel 4	143050	Plate, Stop 3	146264	Link, Operating 5
142897	Spring, Flat 5	143052	Pulley, 24T 11,12	146265	Arm w/Hub 5
142898	Connector, 24 Pt Plug 15	143053	Hub 10,11,12,14	146270	Post, Spring 5
142901	Plate 4	143055	Belt, 65T 12	146273	Post 5
142910	Stud 4	143056	Block Assembly, Punch 5	146284	Guide, Adjustable Tape 4
142911	Plate 4	143061	Pulley, 18T 10	146286	Plate w/Posts 4
142912	Pushing, Eccentric 4	143062	Modification Kit 1,10	146677	Block Assembly, Punch 5
142917	Cutter, Tape 4	143066	Magnet Assembly 3	146678	Link, Drag 3
142918	Chute, Chad 4	143072	Shield, Bearing 6	146685	Guide, Tape 4
142921	Stud 4	143073	Spacer, .06" Thk 6	146802	Switch, SP-ST Slide 7,15
142923	Post 2,6	143074	Wick, Felt 3	146803	Bracket 7
142924	Roller 4	143077	Spring 3	146862	Spacer 4
142927	Bar 8	143078	Arm, Long Toggle 3	146947	Gearset 13
142928	Bar 8	143079	Arm, Short Toggle 3	146948	Gear, 62T 13
142929	Cover, Chad 8	143080	Link, Drag 3	146949	Gear, 28T 13
142933	Box, Chad 8	143088	Guide, Tape 4	146958	Gear, 51T 13
142942	Bracket w/Tape Guide 4	143091	Roller 4	146959	Gear, 28T 13
142944	Eccentric 4	143097	Ring, Retaining 2	146966	Gearset 13
142946	Pawl, Blocking 3	145808	Block Assembly, Punch 5	147622	Retainer, Belt 14
142949	Pawl, Blocking 3	145861	Link w/Hub 2	147623	Modification Kit 1,14
142983	Guide, Tape 9	145862	Link, Feed Bearing 6	147624	Modification Kit 1,14
142988	Cover 9	145864	Block, Pawl 4	147626	Pulley, 15T 14
142989	Window, Plastic 9	145865	Arm, Toggle 2	147627	Pulley, 33T 14
142992	Plate w/Post 3	145866	Guide 4	147628	Pulley, 19T 14
142994	Bar, Magnet Mounting 3	145873	Plate 4	147629	Retainer, Belt 14
142995	Bar, Magnet Mounting 3	145874	Link w/Bushing 2		
142996	Bar, Magnet Mounting 3	145875	Ring, Retaining 2		
142997	Bar, Magnet Mounting 3	145877	Guide 4		
142998	Screw, 6-40 x 3/8 Flat 3	145913	Connector, 25 Pt Receptacle Type 15		

NUMERICAL INDEX (Continued)

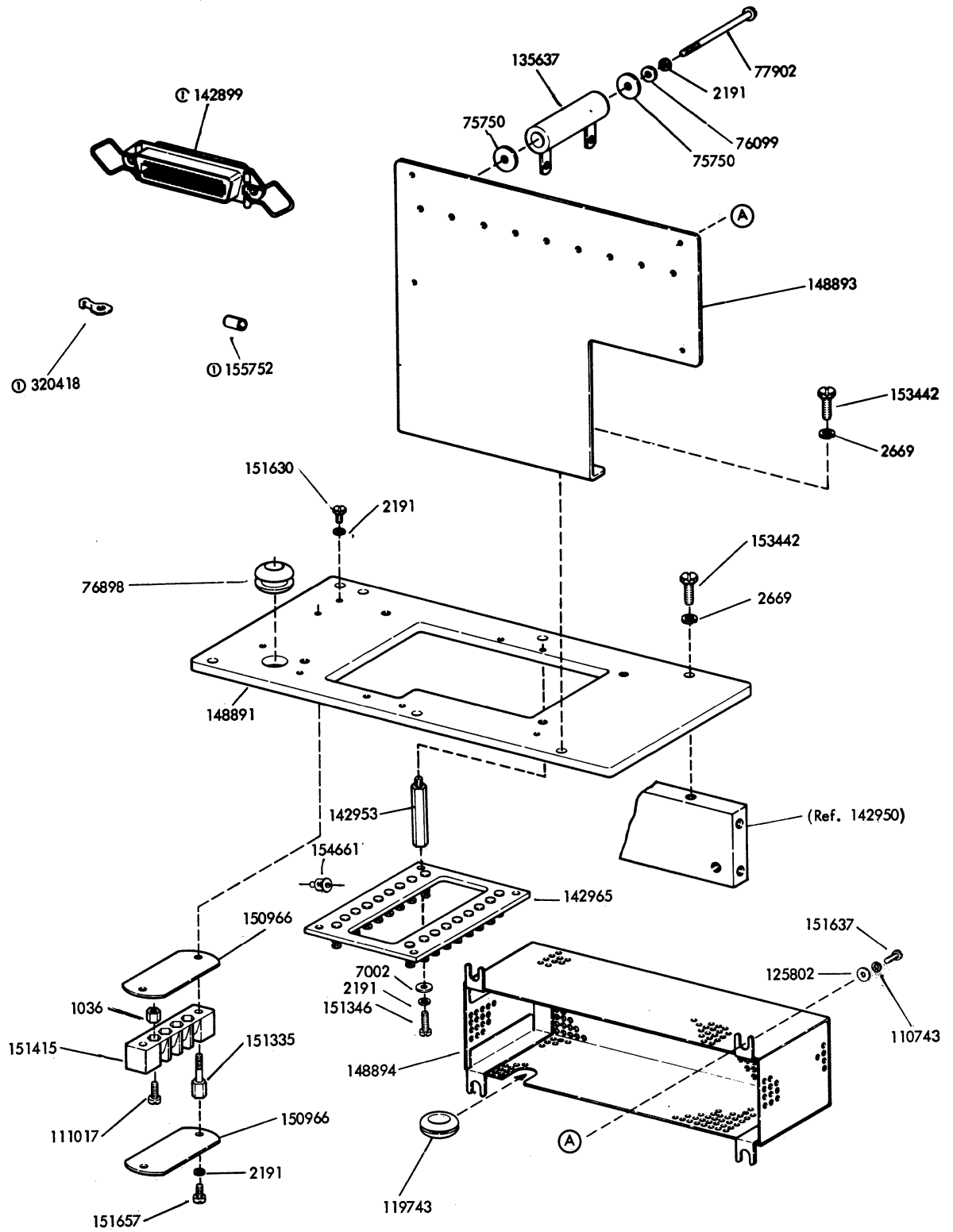
Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
147773	Flywheel 6	153442	Screw, 10-32 x 1/2 Hex 3	171826	Modification Kit 11
147774	Clamp 6	153799	Screw, 4-40 x 21/64 Hex 3	171951	Connector, Red Shielding 15
147775	Bracket, Mounting 6	153841	Screw, 6-40 x 9/16 Hex 13	172276	Connector, Blue Insulated 15
148175	Cable w/Terminals 15	155750	Sleeve, 3/32 ID x 1/2"	173716	Terminal, Receptacle Type 15
148287	Spring, Detent 8	155752	Sleeve, 5/64 ID x 1/2"	173941	Terminal, Receptacle Type 15
148288	Modification Kit 8	155753	Sleeve, 1/8 ID x 1/2"	173974	Screw, 10-32 x 5/16 Hex 4
150353	Stud 14	155754	Lg Insulating 3,13	174543	Switch 13
150948	Plate 9	156536	Sleeve, 1/16 ID x 1/2"	174552	Lg Insulating 15
150950	Plate, Code 9	156632	Screw, 4-40 x 1/8 Fil 4	174553	Rotor, Centrifugal 13
151073	Screw, 4-40 x 5/32 Fil 7	156768	Screw, 6-40 x 13/32 Hex 3	174554	Rotor 13
151152	Screw, 4-40 x 3/16 Hex 6	156805	Screw, 6-40 x 13/32 Hex 3	174555	Hub, Switch 13
151346	Screw, 6-40 x 3/8 Fil 10,14	156806	Screw, 8-32 x 9/32 Hex 7	174570	Bracket, Switch 13
151618	Screw, 6-40 x 7/16 Fil 13	158207	Retainer 13	174570	Switch 15
151630	Screw, 6-40 x 1/4 Hex 4,6,9	159233	Post 13	174587	Actuator, Switch 15
151631	Screw, 6-40 x 5/16 Hex 3,13	159341	Screw, 4-40 x 7/32 Fil 3,4	174787	Roller 15
151637	Screw, 4-40 x 1/4 Fil 6	161238	Setscrew, 10-32 6	175194	Modification Kit 1,15
151658	Screw, 6-40 x 5/16 Fil 4,9	170751	Stud 8	175195	Bracket 15
151660	Screw, 6-40 x 7/8 Fil 6,7	170752	Stud 8	175196	Stud 15
151686	Screw, 4-40 x 3/8 Fil 3	170754	Bearing, Ball 6,7	175198	Modification Kit 1,13
151692	Screw, 6-40 x 3/16 Fil 4	170756	Connector, 36 Pt Receptacle 15	179148	Belt, 95T 11
151721	Screw, 6-40 x 3/4 Hex 10,14	170766	Block Assembly, Punch 5	179149	Modification Kit 11
151722	Screw, 6-40 x 3/16 Hex 4,7	170755	Plate, Rear 2	179159	Spacer, .468" Thk 11
151724	Screw, 10-32 x 5/8 Hex 8,12	170766	Bracket 9	181409	Belt, 47T 14
151796	Plate, Bell Identification 9	170756	Bracket, Tape Guide 9	195277	Gear, 18T 13
151880	Nut, 4-40 Hex 6	170766	Bracket, Tape Guide 9	195278	Gear, 39T 13
152426	Nut, 6-40 Self-Locking 6	170766	Spacer, .095" Thk 4	195279	Gearset 13
152893	Screw, 4-40 x 1/4 Hex 3,11	170805	Coupling, Flexible 11	195448	Belt, 55T 14
153441	Screw, 10-32 x 7/16 Hex 4	171175	Bearing, Ball 11	199378	Pad 5
		171180	Bearing, Ball 11	320410	Terminal, Spade Type 15
		171180	Belt, 100T 11	327530	Pad 5
		171190	Pulley, 44T 11,12	334086	Plate, Left Guide 3
		171194	Bracket w/Bearing 11	334087	Plate, Right Guide 3
		171286	Bracket, Mounting 7		
		171691	Pulley, 30T 11		
		171692	Shaft w/Bearing 6		
		171694	Shaft 11		

HIGH SPEED TAPE PUNCH BASE (BRPEB6 and up)
and
HIGH SPEED TAPE PUNCH COVER (BRPEC)

PARTS

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**Denotes a painted part
BU- Light Gray



① 148892 Cable Assembly

FIGURE 2. HIGH SPEED TAPE PUNCH BASE (Continued)

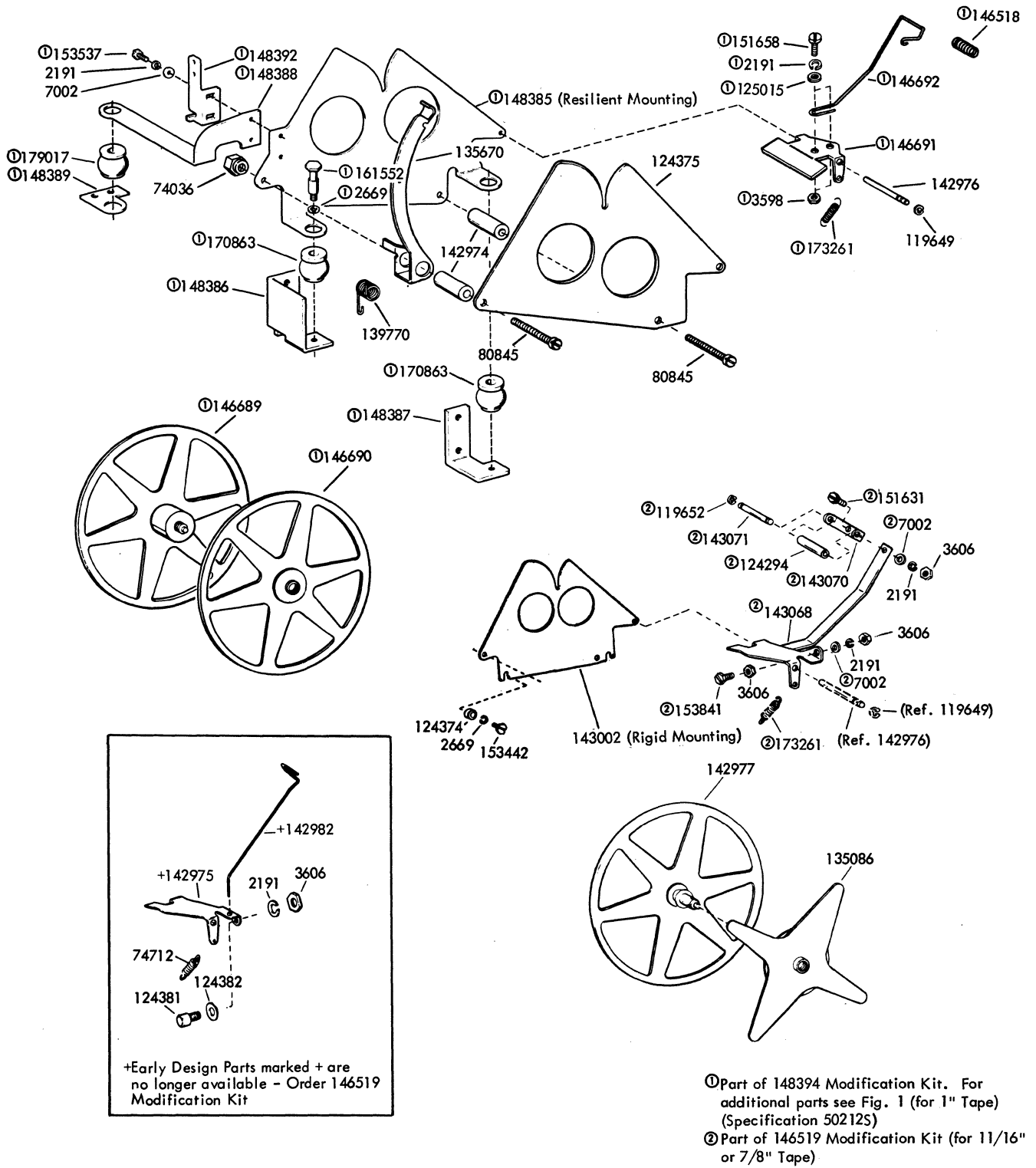


FIGURE 3. TAPE CONTAINERS

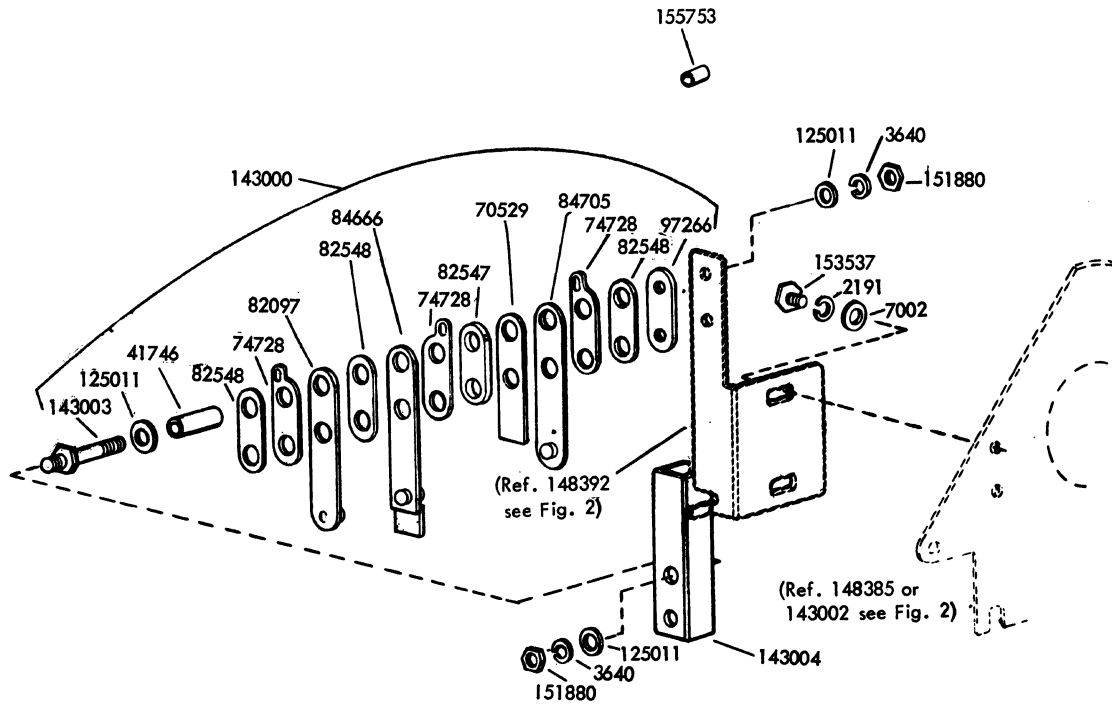
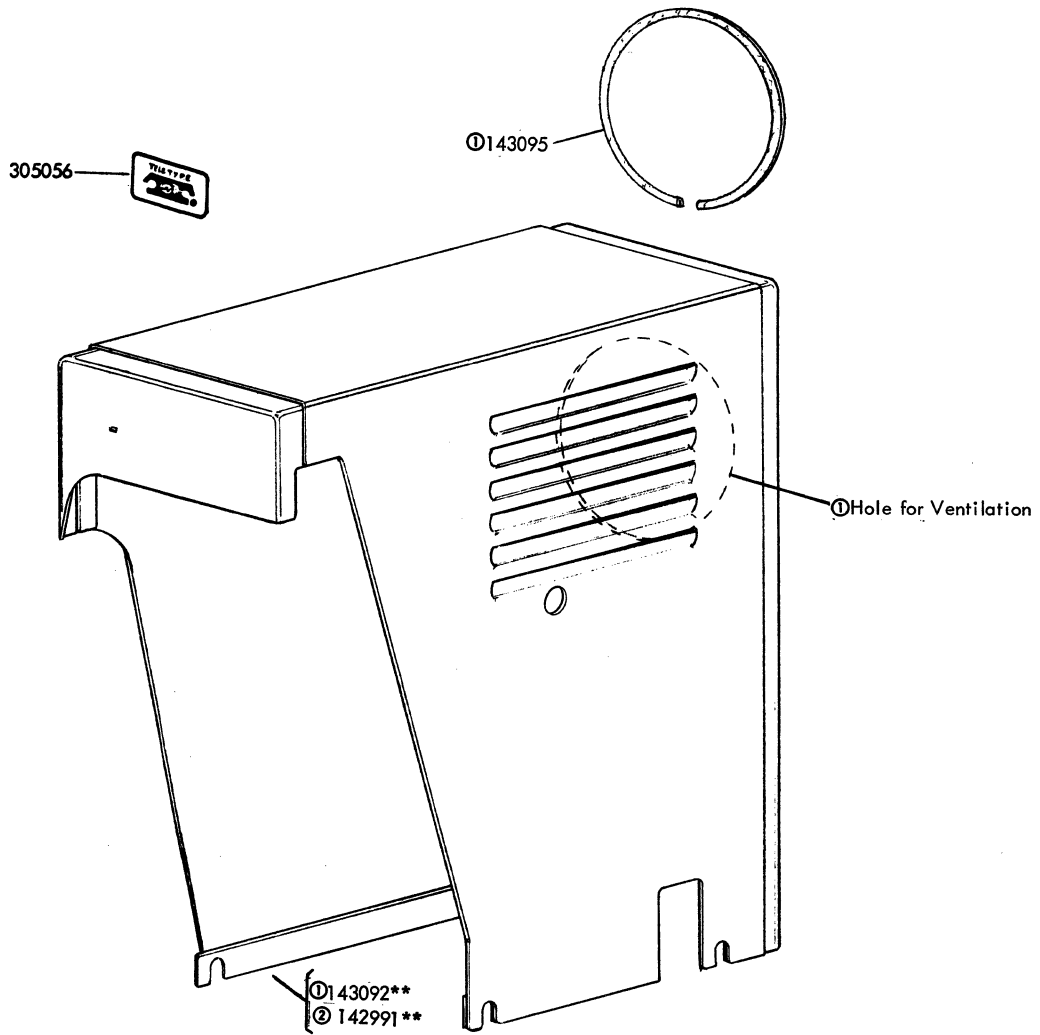


FIGURE 4. TAPE OUT CONTACTS



① Peculiar to Cover with Ventilation Hole
② Peculiar to Cover without Ventilation Hole
**Refer to page 1 for finish suffix

FIGURE 5. MOTOR COVERS

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
1036	Nut, 6-40 Hex 2,3	124375	Plate, Front 4	146692	Guide, Tape 4
2191	Lockwasher 2,3,4,5	124381	Stud 4	147625	Bracket, Left Rear Plate 2
2449	Lockwasher 2	124382	Washer, Flat 4	147985	Resistor, 25 Ohm 2
2669	Lockwasher 2,3,4	124396	Switch Asm 2	148385	Plate, Rear 4,5
3438	Washer, Flat 2	125011	Washer, Flat 5	148386	Bracket, Front 4
3598	Nut, 6-40 Hex 4	125015	Washer, Flat 4	148387	Bracket, Rear 4
3606	Nut, 6-40 Hex 4	125218	Nut, 1/4-32 Hex 2	148388	Bracket 4
3640	Lockwasher 5	125802	Washer, Flat 3	148389	Bracket 4
7002	Washer, Flat 2,3,4,5	135086	Retainer, Tape 4	148392	Bracket 4,5
41746	Bushing, Insulating 5	135637	Resistor, 25 Ohm 3	148394	Modification Kit 2,4
70072	Lockwasher 2	135670	Lever 4	148891	Plate 3
70529	Stiffener 5	139770	Spring, Torsion 4	148892	Cable Assembly 3
74036	Nut, 10-32 Hex 4	142898	Connector, 24 Pt Plug 2	148893	Plate 3
74712	Spring 4	142899	Connector, 24 Pt Receptacle 2,3	148894	Cover 3
74728	Terminal, Contact 5	142915	Bracket, Mounting 2	150353	Stud 2
74805	Screw, 10-32 x 3/4 Hex 2	142950	Bar, Left 2,3	150966	Insulator, Terminal Block 2,3
75750	Washer, Insulating 3	142951	Bar, Right 2	151073	Screw, 4-40 x 5/32 Fil 2
76099	Washer, Flat 3	142952	Plate, Mounting 2	151335	Stud 2,3
76898	Grommet, Rubber 3	142953	Post 2,3	151346	Screw, 6-40 x 3/8 Fil 2,3
77902	Screw, 6-40 x 2-3/8 Rd 3	142954	Stud 2	151415	Block, Terminal 2,3
80845	Screw, 10-32 x 1-7/8 Fil 4	142955	Bracket, Left Rear 2	151630	Screw, 6-40 x 1/4 Hex 2,3
82097	Spring, Contact 5	142956	Bracket, Right Rear 2	151631	Screw, 6-40 x 5/16 Hex 4
82547	Insulator, .094" Thk 5	142959	Plate 2	151637	Screw, 4-40 x 1/4 Fil 3
82548	Insulator, .062" Thk 5	142964	Board, Terminal 2	151657	Screw, 6-40 x 1/4 Fil 2,3
84666	Spring, Contact 5	142965	Board, Terminal 2,3	151658	Screw, 6-40 x 1/4 Fil 4
84705	Spring, Contact 5	142966	Resistor, 25 Ohm 2	151723	Screw, 10-32 x 3/8 Hex 2
85020	Screw, 10-32 Shoulder 2	142970	Post 2	151724	Screw, 10-32 x 5/8 Hex 2
91683	Nut, 15/32-32 Hex 2	142974	Spacer, Tape Reel 4	151880	Nut, 4-40 Hex 5
91684	Nut, 15/32-32 Ring 2	142975	Brake 4	153442	Screw, 10-32 x 1/2 Hex 2,3,4
93985	Lockwasher 2	142976	Shaft 4	153537	Screw, 6-40 x 9/32 Hex 4,5
95320	Switch, SP-ST Toggle 2	142977	Reel, Tape 4	153841	Screw, 6-40 x 9/16 Hex 4
97266	Plate, Clamp 5	142982	Guide, Tape 4	154661	Diode 2,3
98726	Screw, 3-48 x 1/4 Fil 2	142985	Cable Assembly, Motor 2	154697	Grommet, Rubber 2
110743	Lockwasher 2,3	142991**	Cover, Motor 6	155752	Sleeve, 5/64 Id x 1/2" Lg Insulating 2,3
111017	Screw, 6-40 x 5/16 Fil 2,3	143000	Contact Assembly, Tape Out 5	155753	Sleeve, 1/8 Id 1/2 Lg Insulating 5
114466	Connector, 3 Pt Receptacle 2	143002	Plate, Rear 4,5	155755	Sleeve, 11/64 ID x 5/8" Lg Insulating 2
114467	Connector, 3 Pt Plug 2	143003	Stud 5	156768	Screw, 8-32 x 9/32 Hex 2
114589	Mount, Vibration 2	143004	Cover, Insulating 5	161552	Screw, 10-32 Spl 4
119421	Washer, Flat 2	143068	Brake w/Arm 4	170863	Mount Vibration 4
119649	Ring, Retaining 4	143070	Bracket 4	173261	Spring 4
119652	Ring, Retaining 4	143071	Shaft 4	179017	Mount, Vibration 4
119743	Grommet, Rubber 3	143092**	Cover, Motor 6	181892	Sleeve, 9/64 ID x 1" Lg Insulating 2
120175	Plate, ON - OFF 2	143095	Gasket, Rubber 6		
121242	Clamp, 1/8 ID Cable 2	146518	Roller, Spring 4		
121244	Clamp, 1/4 ID Cable 2	146519	Modification Kit 4		
124294	Roller 4	146689	Disc w/Hub 4		
124374	Bushing 4	146690	Disc w/Flange 4		
		146691	Brake 4		

**Refer to page 1 for finish suffix

NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
305056	Plate, Identification 6	320410	Terminal, Spade Type 2	320418	Terminal, Ring type 2,3

HIGH SPEED TAPE PUNCH (BRPE1 to BRPE5)
HIGH SPEED TAPE PUNCH BASE (BRPEB2 to BRPEB4)
and
HIGH SPEED TAPE PUNCH COVER

FIGURE	CONTENTS	PAGE	FIGURE	CONTENTS	PAGE
1	Base	2	14	136127** Modification Kit to Equip a High Speed Tape Punch with a Motor Cover	9
2	Magnet Mounting Plate Mechanism	3	15	139956 Modification Kit to Add a Magnetic Pick-up	10
3	Punch Blocks	4	16	113779 and 135080 Modification Kit to Provide Motor Mounting and Drive Parts (600 O.P.M. Gear Drive)	11
4	Shaft Mechanism	5	17	135259 Modification Kit to Provide Motor Mounting and Drive Parts (3600 O.P.M. Direct Drive)	11
5	Bail and Link Mechanism	5	18	113762 Modification Kit to Provide Motor Mounting and Drive Parts (3800 O.P.M. Belt Drive)	12
6	Tape Tension Lever and Tape Roller Mechanism	5		Numerical Index	13
7	Feed Wheel and Tape Guide Mechanism	5			
8	Main Shaft Mechanism	6			
9	Tape Feed-out Mechanism	6			
10	124304 Timing Contact Box Assembly	7			
11	Contact Box Mounting Plate	7			
12	Tape Guide Bracket	8			
13	Window Cover	8			

PAINT FINISH COLOR CODE CHART (for parts and assemblies requiring a paint finish)									
Color	Finish Suffixes				Color	Finish Suffixes			
	Wrinkle Finish	Smooth Finish	Textured Vinyl	Smooth Vinyl		Wrinkle Finish	Smooth Finish	Textured Vinyl	Smooth Vinyl
Black	AA (37)	BB			Brussels Light Blue		EC		
Dark Brown	AD (38)				Medium Blue		ES		
Gray Green	AB (40)	BK	GA (45)		Cherry Red		EF		
Charcoal Gray	AL	BZ		HA	Pastel Yellow		EG		
Dark Gray			GB		White		EH		
Light Gray		EJ		HB (68)	Ivory		EM		
Beige Gray			GC		Beige		ET		
Light Beige		EL		HC	Rose Beige		ER		
Moss Green		EN		HD	Rose Pink		EU		
Eye Rest Green		EA			Dark Covert Gray				HE
Turquoise		EV			Light Olive Gray		EW	GE	HF (46)
Aqua Blue		EK			Fawn				HG

The double asterisks (**) denotes a painted part. Suffix to be applied following the part number.
Number in parenthesis indicates Bell System code

COLOR CODE CHART FOR MULTI-COLOR APPARATUS		
Color Code	Basic Color	Finish Suffixes
MA	BEIGE	HC and HG
MB	GRAY	HB and HE
MC	GREEN	HD and HB
MH	GRAY	BJ and EJ

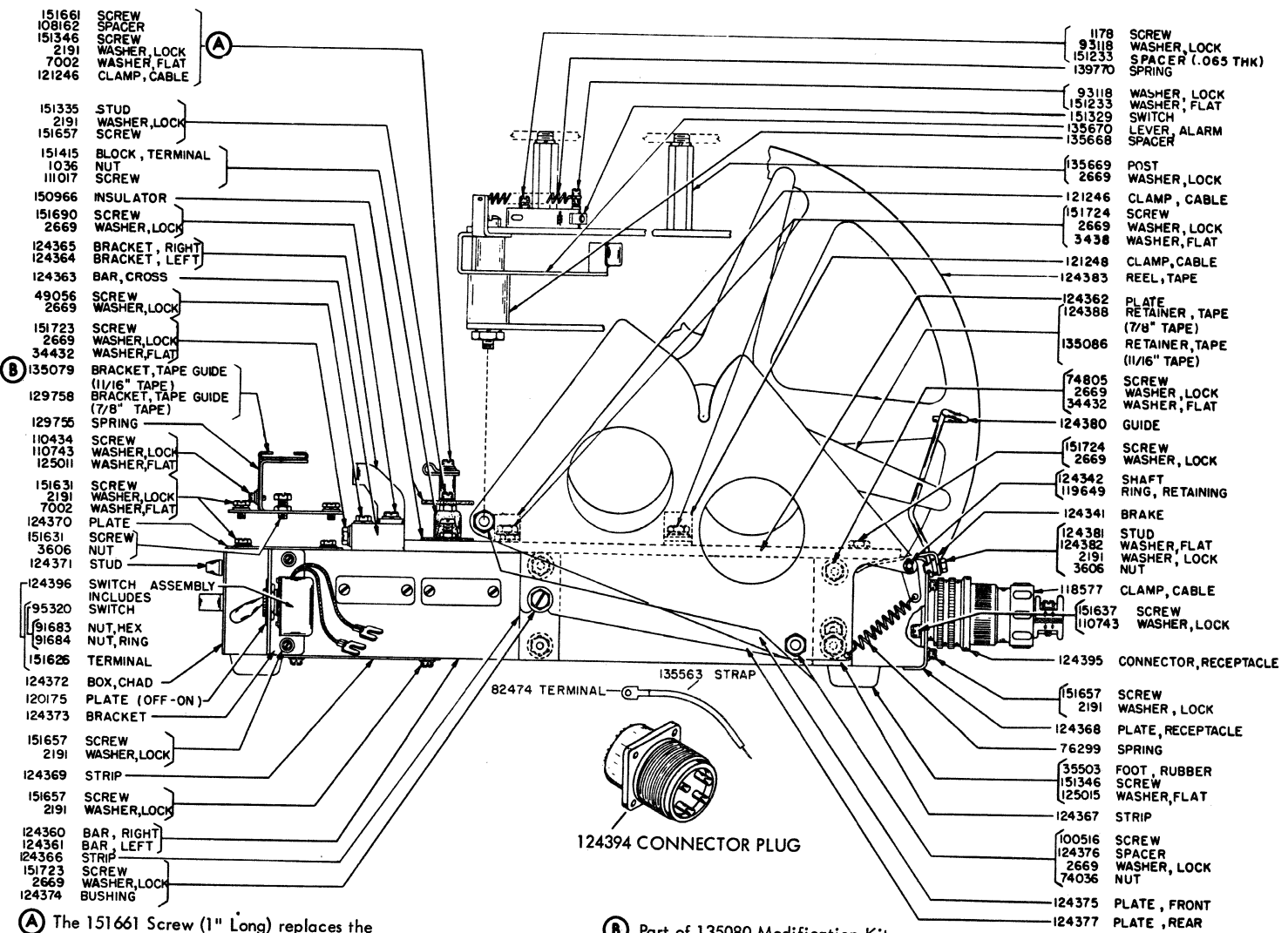
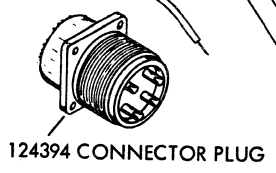


FIGURE 1. BASE

A The 151661 Screw (1" Long) replaces the 151346 Screw (3/8" Long) when the 108162 Spacer is used.

B Part of 135080 Modification Kit for additional parts see Page 11.



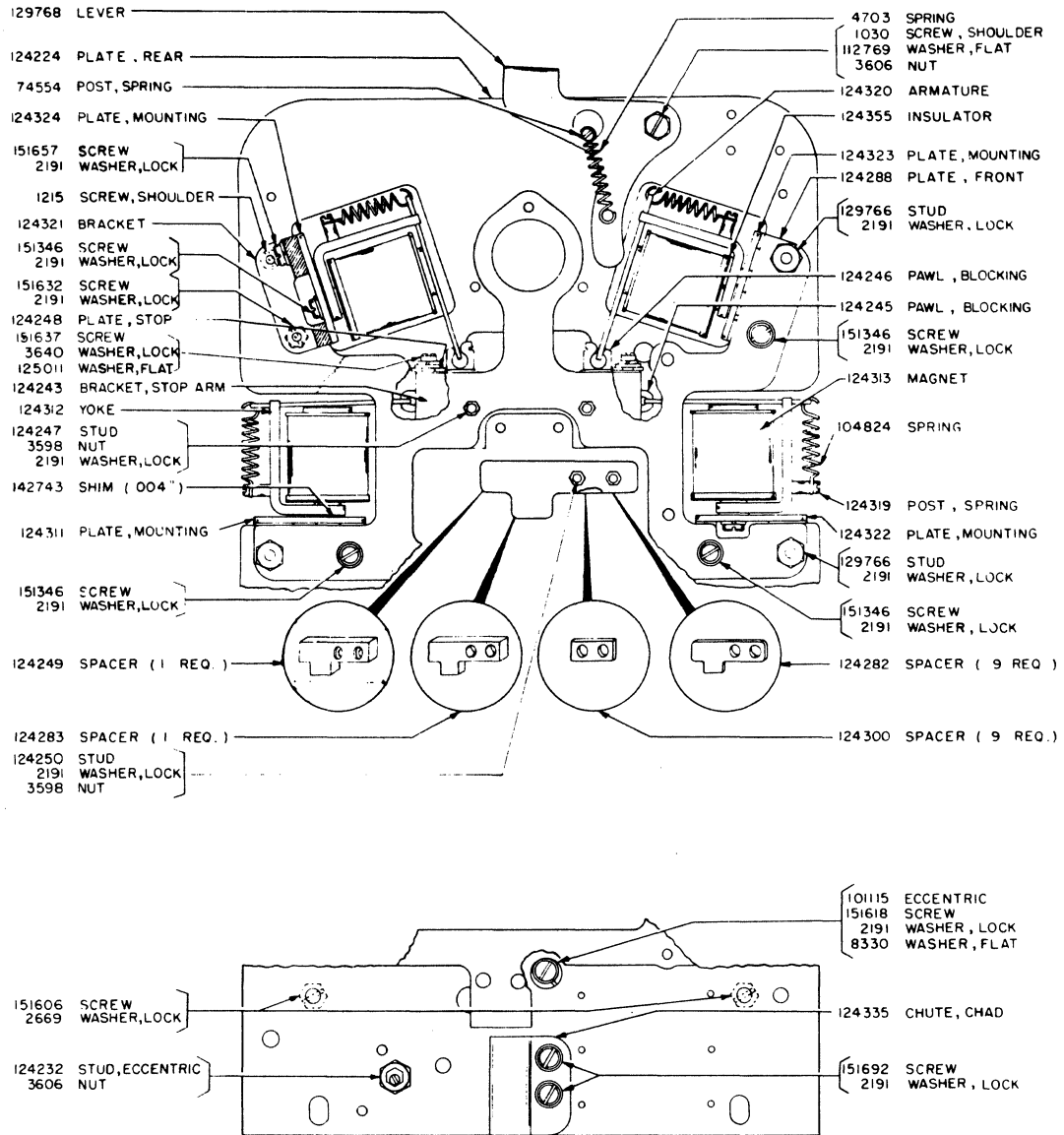
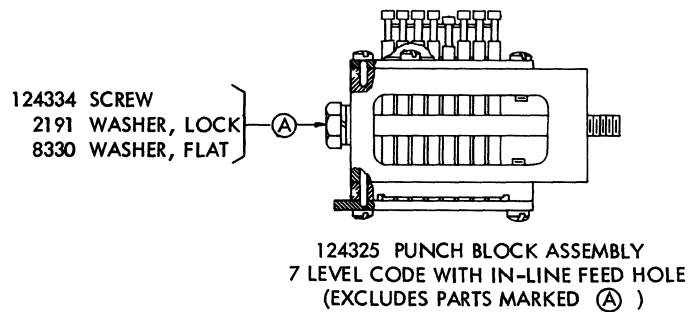
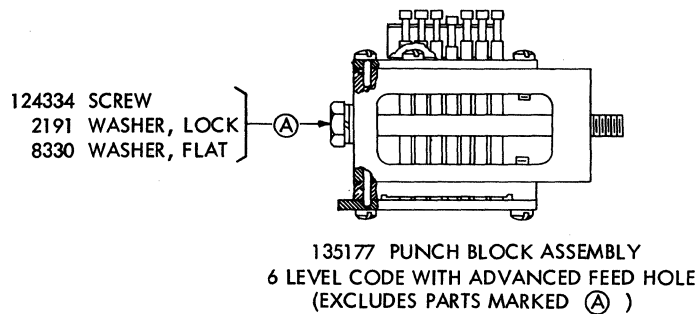
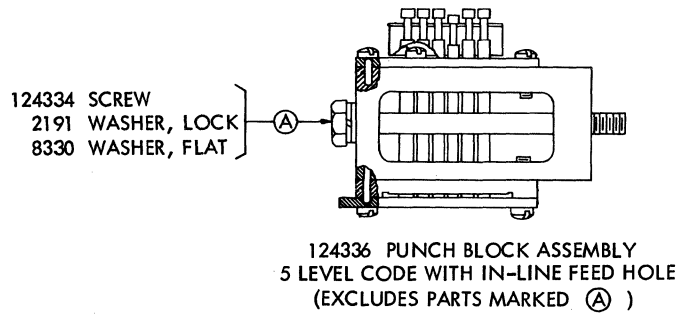


FIGURE 2. MAGNET MOUNTING PLATE MECHANISM



Due to special assembly processes, it is recommended that Teletype Corporation be contacted to determine if part replacement or repair is possible.

NOTE:
The punch block assemblies shown on this page are for BRPE1 through BRPE5.

FIGURE 3. PUNCH BLOCKS

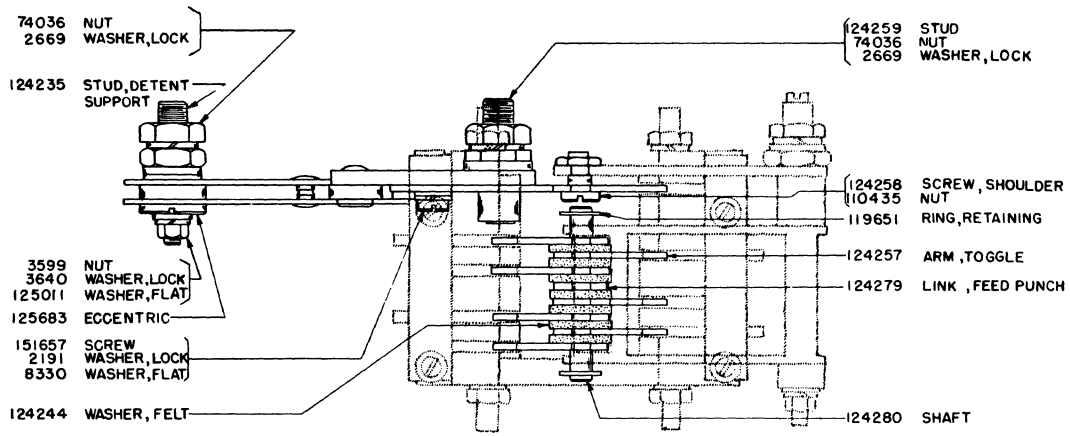


FIGURE 4. SHAFT MECHANISM

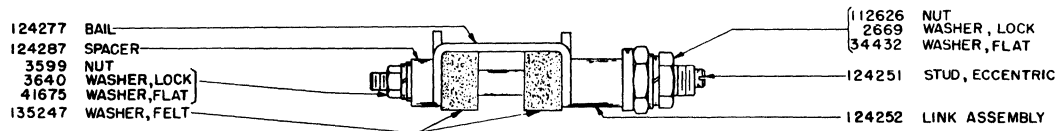


FIGURE 5. BAIL AND LINK MECHANISM

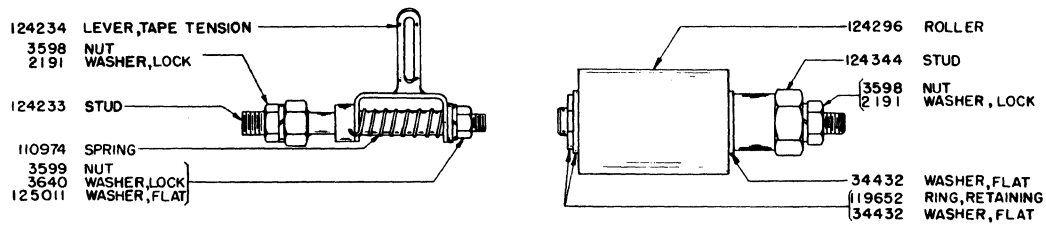


FIGURE 6. TAPE TENSION LEVER AND TAPE ROLLER MECHANISM

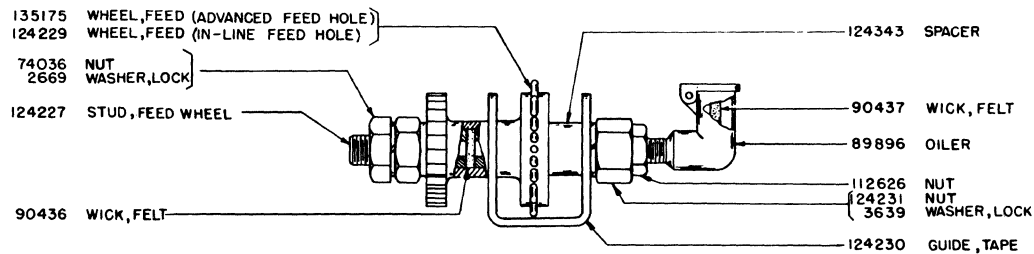


FIGURE 7. FEED WHEEL AND TAPE GUIDE MECHANISM

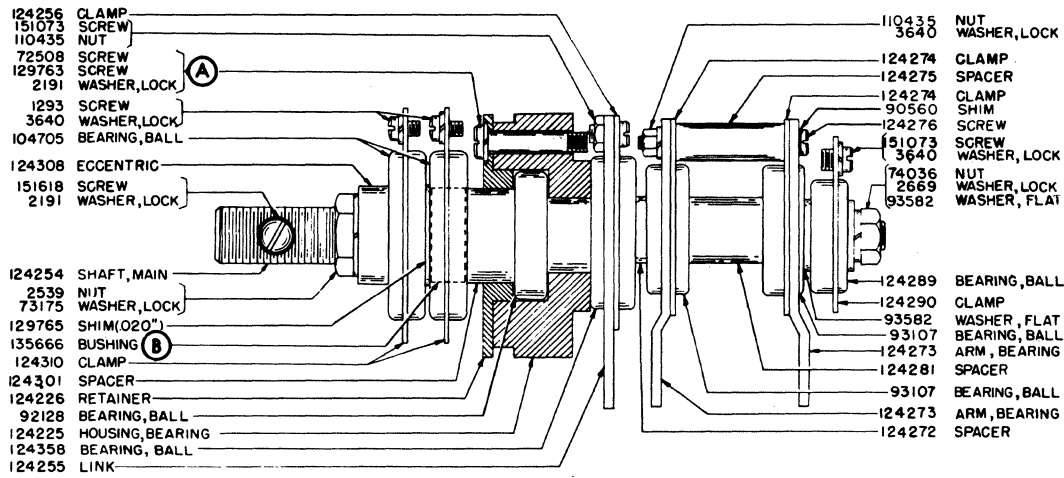
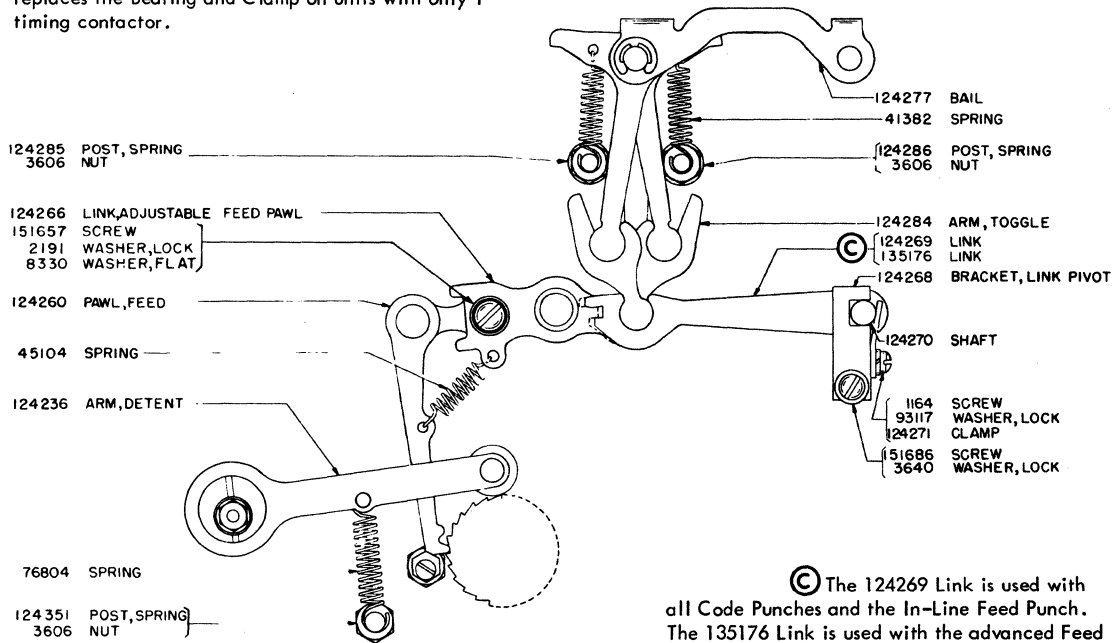


FIGURE 8. MAIN SHAFT MECHANISM

Ⓐ The 72508 (6-40 x 3/4" Hex) replaces the 129763 Screws (6-40 x 11/16" Fil) on units with only 1 timing contactor. Ⓑ The 135666 Bushing replaces the Bearing and Clamp on units with only 1 timing contactor.



Ⓒ The 124269 Link is used with all Code Punches and the In-Line Feed Punch. The 135176 Link is used with the advanced Feed Punch.

FIGURE 9. TAPE FEED-OUT MECHANISM

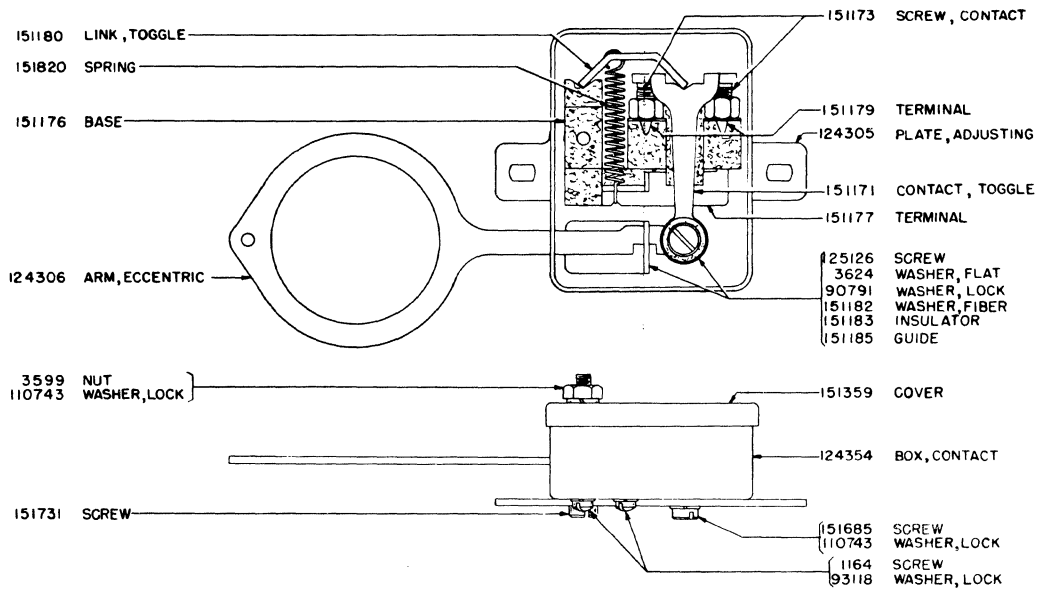


FIGURE 10. 124304 TIMING CONTACT BOX ASSEMBLY

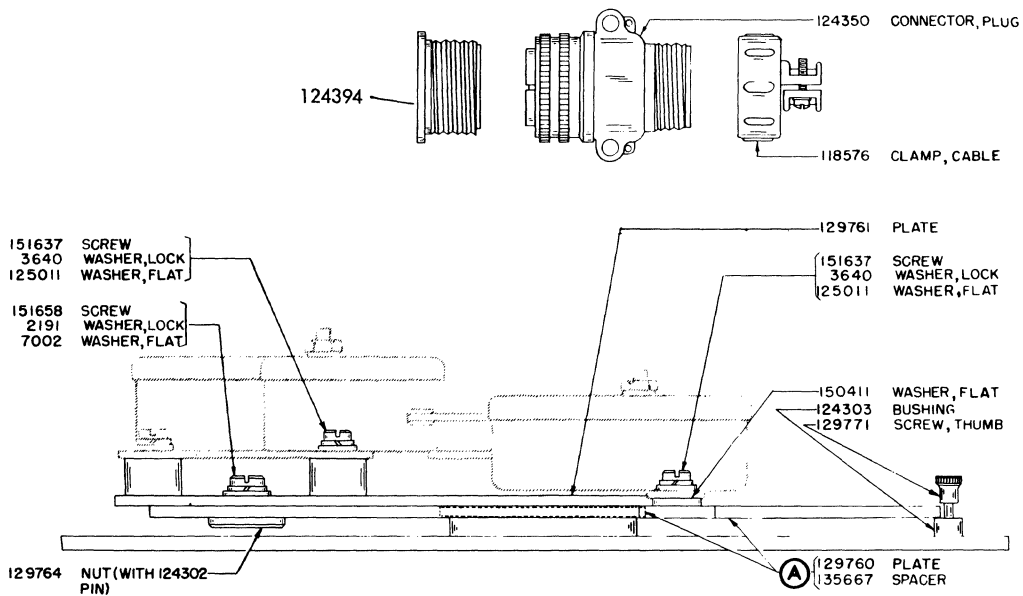


FIGURE 11. CONTACT BOX MOUNTING PLATE

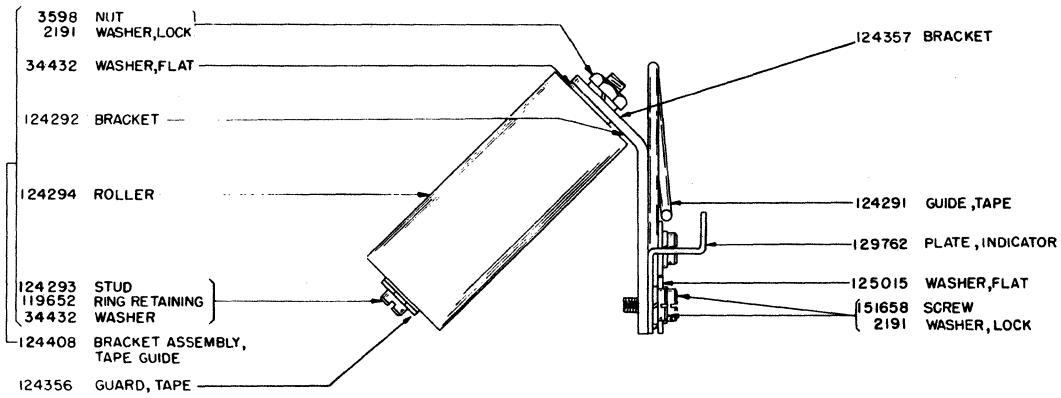


FIGURE 12. TAPE GUIDE BRACKET

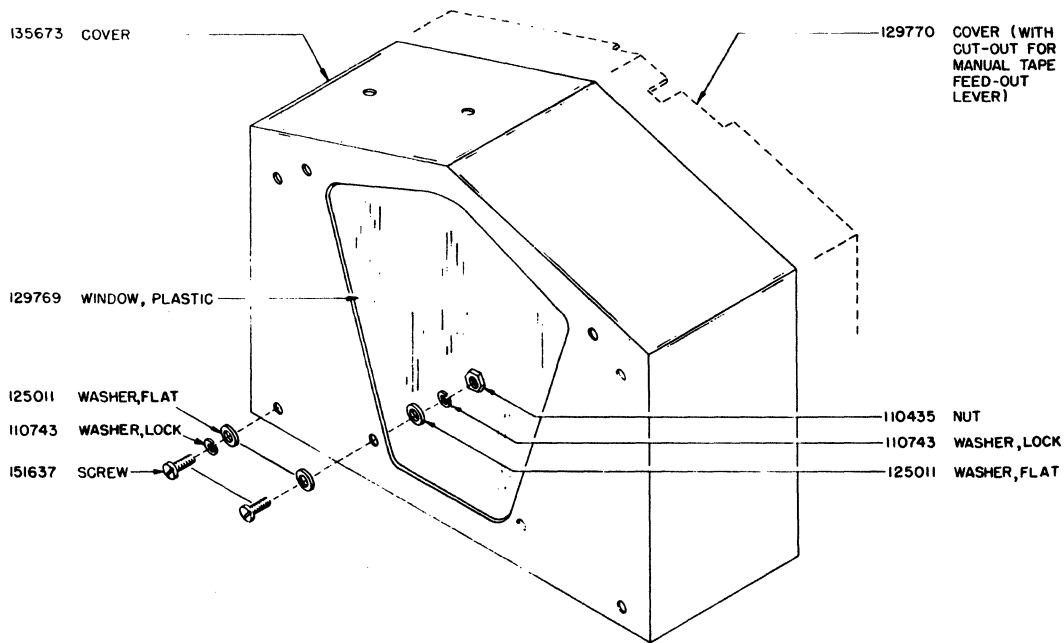
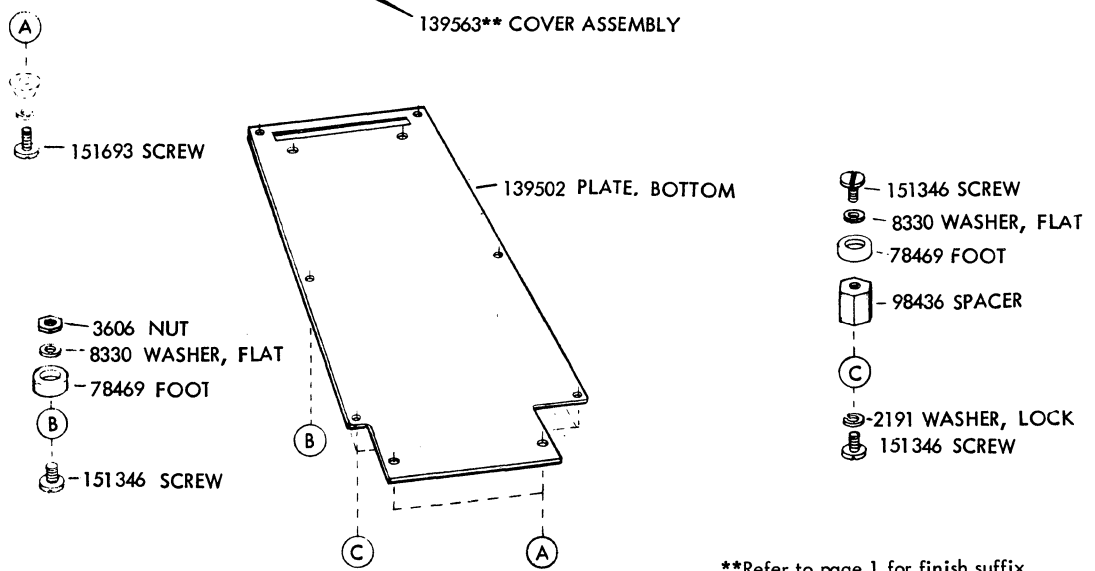
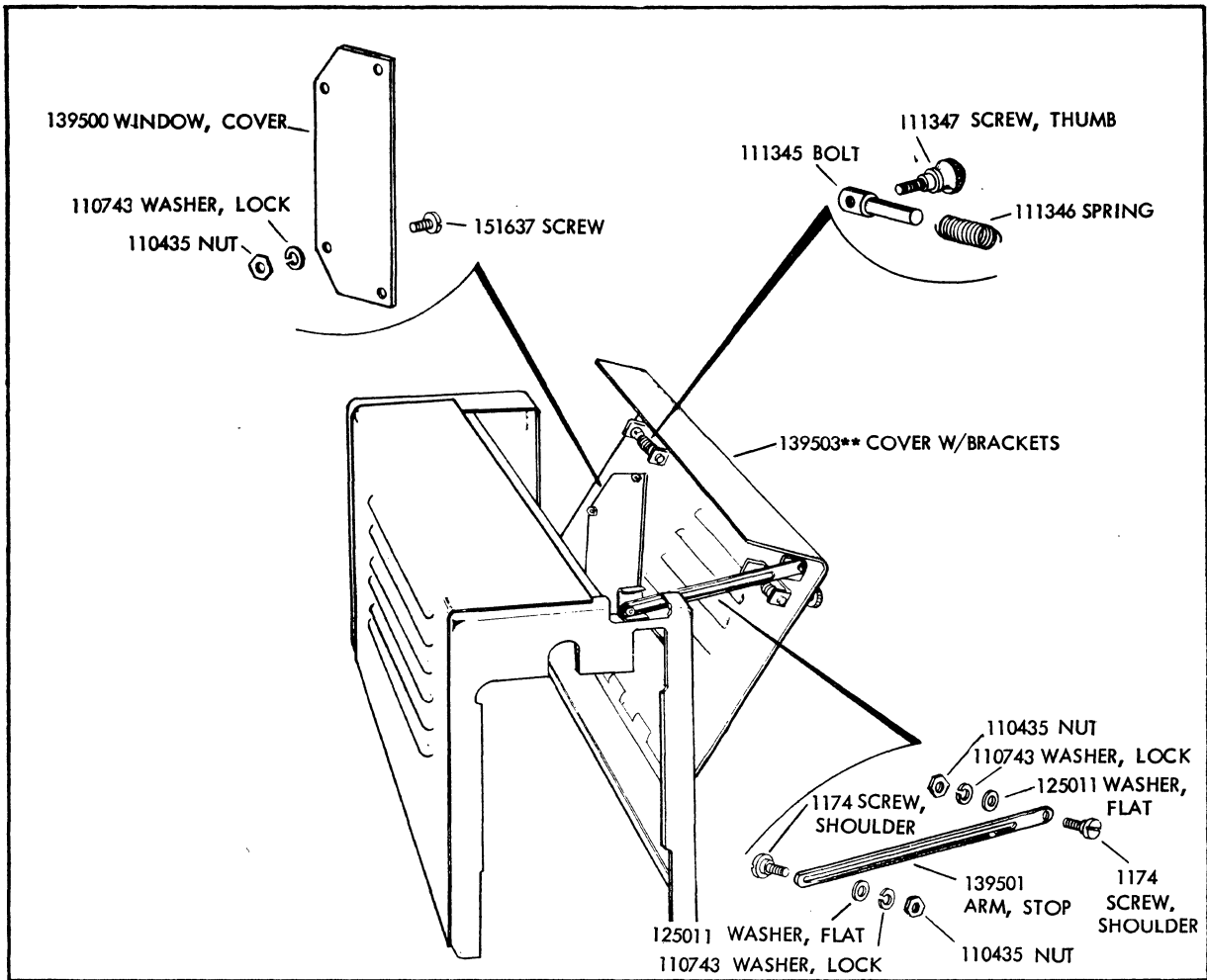
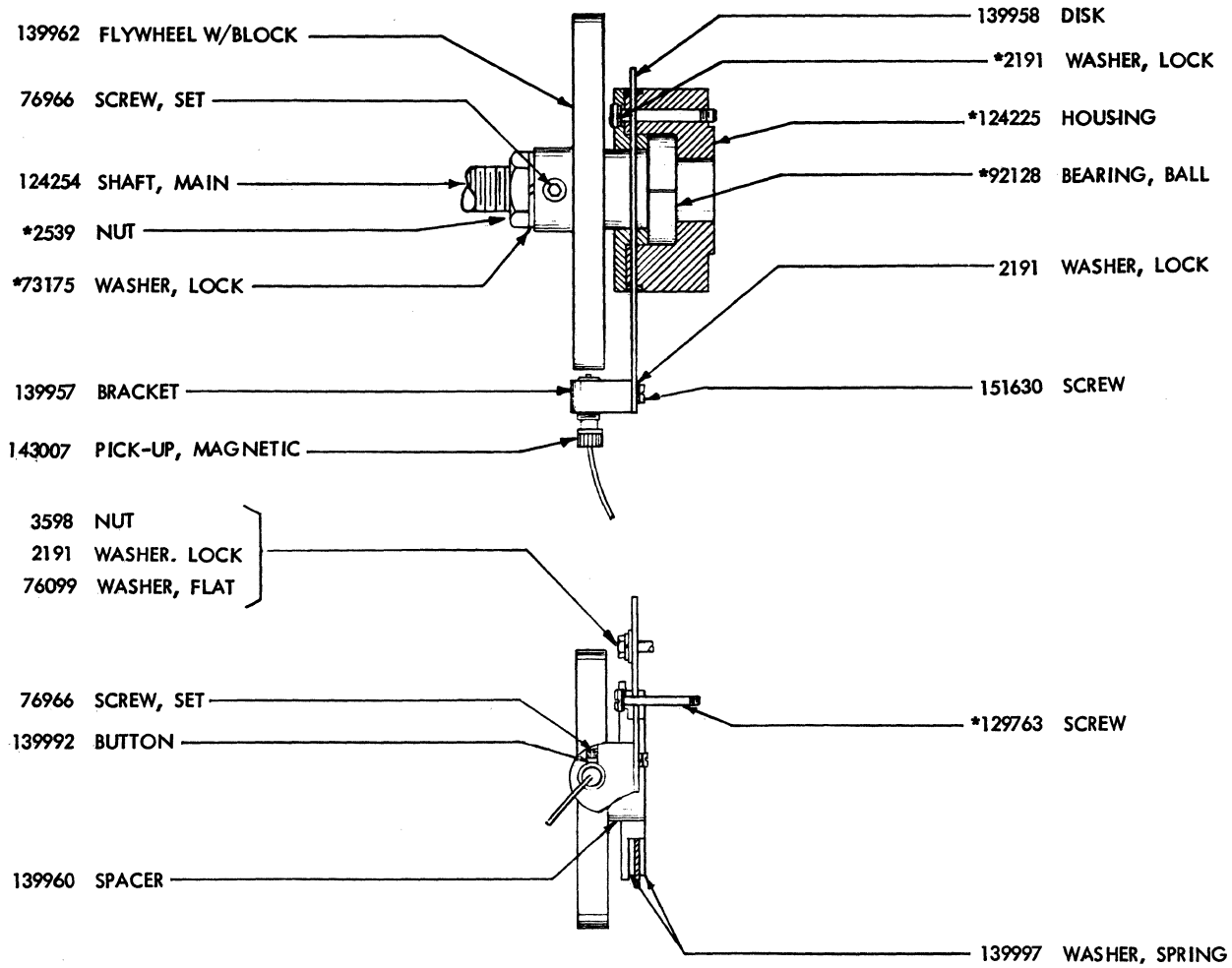


FIGURE 13. WINDOW COVER

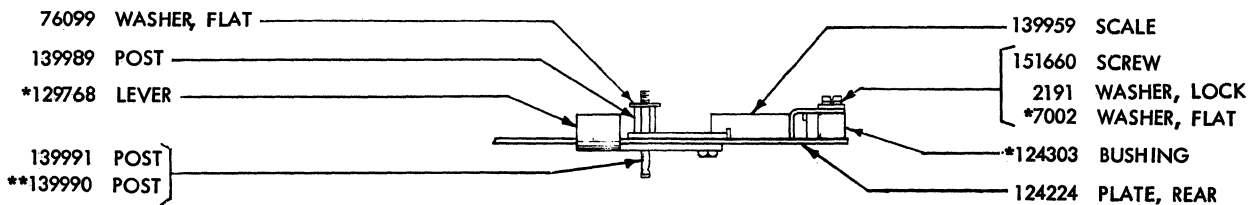


**Refer to page 1 for finish suffix

FIGURE 14. 136127** MODIFICATION KIT TO EQUIP A HIGH SPEED TAPE PUNCH WITH A MOTOR COVER



(Main Shaft Parts)



(Rear Plate Parts)

*NOT PART OF 139956 MODIFICATION KIT

**FOR UNITS NOT HAVING MANUAL TAPE FEED OUT

FIGURE 15. 139956 MODIFICATION KIT TO ADD A MAGNET PICK-UP

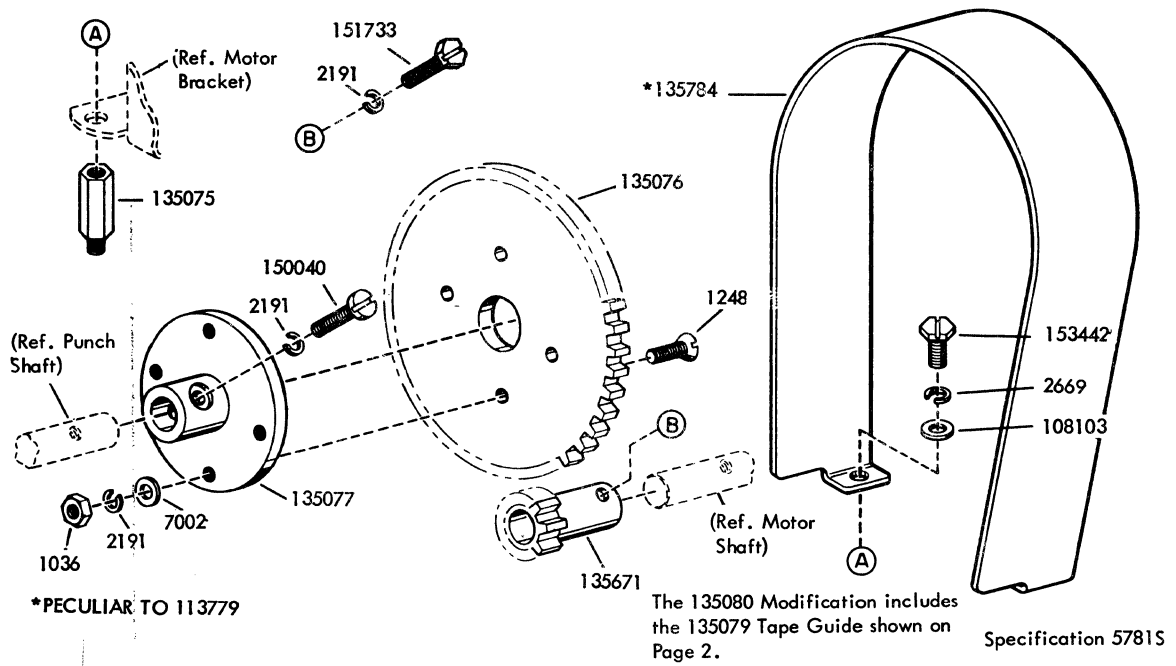


FIGURE 16. 113779 AND 135080 MODIFICATION KIT TO PROVIDE MOTOR MOUNTING AND DRIVE PARTS (600 O.P.M. GEAR DRIVE)

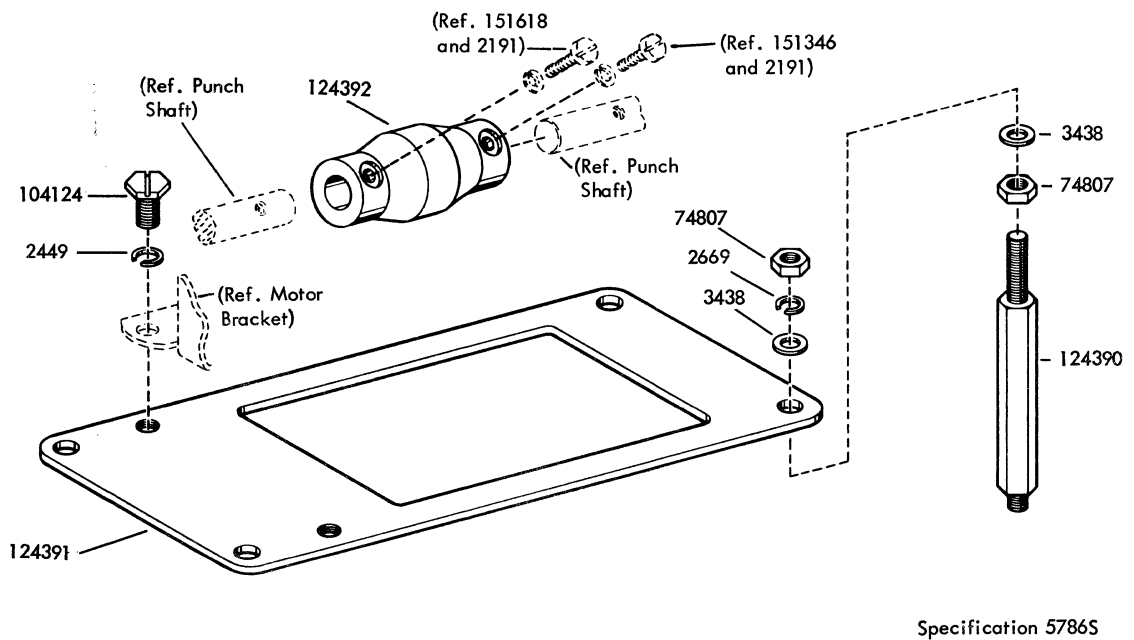


FIGURE 17. 135259 MODIFICATION KIT TO PROVIDE MOTOR MOUNTING AND DRIVE PARTS (3600 O.P.M. DIRECT DRIVE)

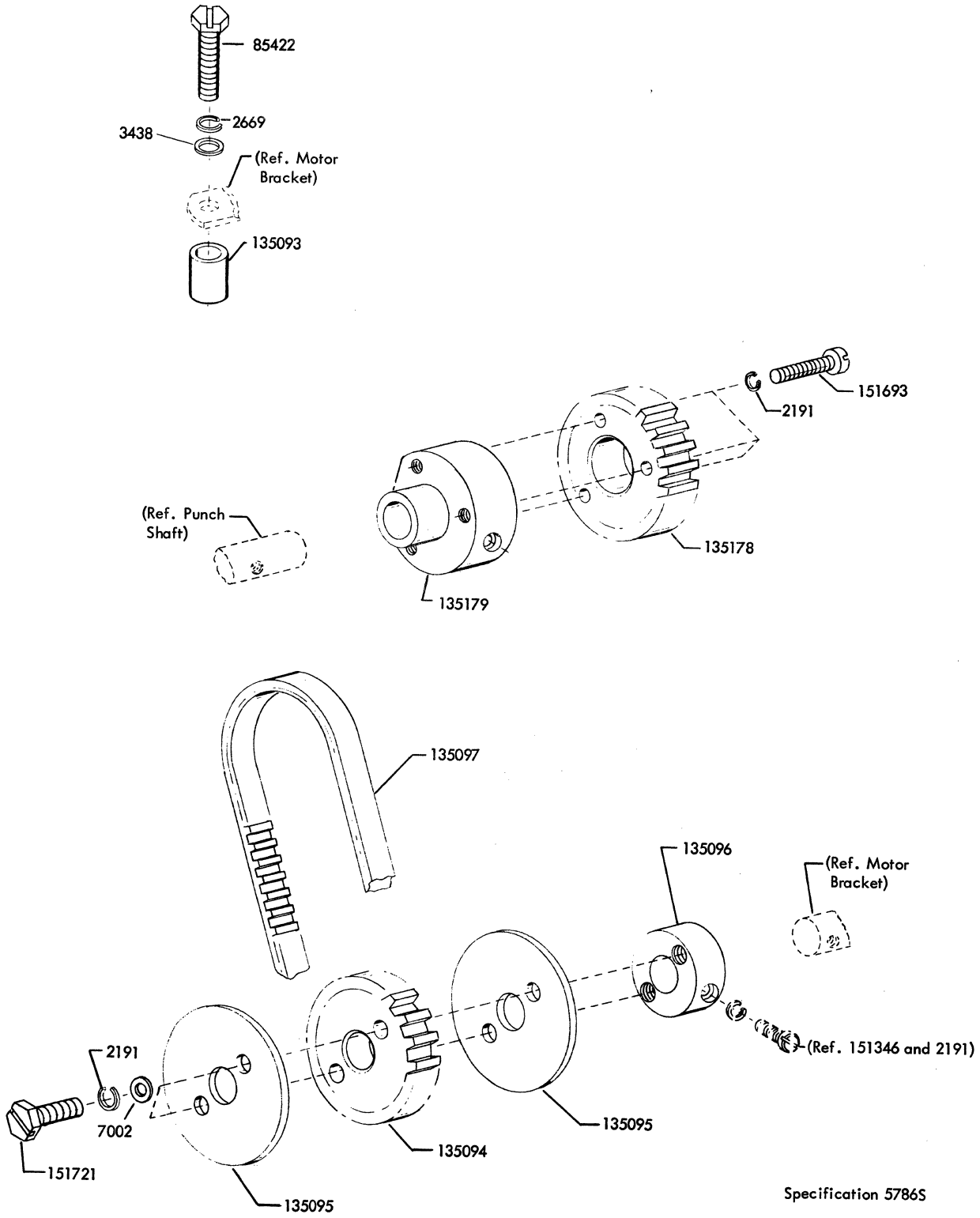


FIGURE 18. 113762 MODIFICATION KIT TO PROVIDE MOTOR MOUNTING AND DRIVE PARTS (3800 O.P.M. BELT DRIVE)

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
1030	Screw, Shoulder (6-40) 3	111017	Screw (6-40 x 5/16 Fil) 2	124290	Clamp 6
1036	Nut (6-40 Hex) 2, 11	111345	Bolt 9	124291	Guide, Tape 8
1164	Screw (2-56 x 3/16 Fil) 6, 7	111346	Spring, Compression 9	124292	Bracket 8
1174	Screw, Shoulder (4-40) 9	111347	Screw, Thumb (4-40) 9	124293	Stud 8
1178	Screw (2-56 x 7/16 Fil) 2	112626	Nut (10-32 Hex) 5	124294	Roller 8
1215	Screw, Shoulder (6-40) 3	112769	Washer, Flat 3	124296	Roller 5
1248	Screw (6-40 x 1/2 Flat) 11	113762	Modification Kit 12	124300	Spacer 3
1293	Screw (4-40 x 1/8 Fil) 6	113779	Modification Kit 11	124301	Spacer 6
2191	Washer, Lock 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12	118576	Clamp, Cable 7	124302	Pin 7
2449	Washer, Lock 11	118577	Clamp, Cable 2	124303	Bushing 7, 10
2539	Nut (3/8-32 Hex) 6, 10	119649	Ring, Retaining 2	124304	Box Assembly, Contact 7
2669	Washer, Lock 2, 3, 5, 6, 11, 12	119651	Ring, Retaining 5	124305	Plate, Adjusting 7
3438	Washer, Flat 2, 11, 12	119652	Ring, Retaining 5, 8	124306	Arm, Eccentric 7
3598	Nut (6-40 Hex) 3, 5, 8, 10	120175	Plate (On-Off) 2	124308	Eccentric 6
3599	Nut (4-40 Hex) 5, 7	121246	Clamp, Cable (3/8" ID) 2	124310	Clamp 6
3606	Nut (6-40 Hex) 2, 3, 6, 9	121248	Clamp, Cable (1/2" ID) 2	124311	Plate 3
3624	Washer, Flat 7	124224	Plate, Rear 3, 10	124312	Yoke 3
3639	Washer, Lock 5	124225	Housing, Bearing 6, 10	124313	Magnet Assembly 3
3640	Washer, Lock 3, 5, 6, 7	124226	Retainer 6	124319	Post 3
4703	Spring 3	124227	Stud 5	124320	Armature 3
7002	Washer, Flat 2, 7, 10, 11, 12	124229	Wheel, Feed 5	124321	Bracket 3
8330	Washer, Flat 3, 4, 5, 6, 9	124230	Guide 5	124322	Plate, Mounting 3
34432	Washer, Flat 2, 5, 8	124231	Nut (10-32 Hex) 5	124323	Plate, Mounting 3
35503	Foot, Rubber 2	124232	Stud 3	124324	Plate, Mounting 3
41382	Spring 6	124233	Stud 5	124325	Block Assembly, Punch 4
41675	Washer, Flat 5	124234	Lever 5	124334	Screw (6-40 x 1-27/32 Hex) 4
45104	Spring 6	124235	Stud 5	124335	Chute, Chad 3
49056	Screw (10-32 x 7/8 Hex) 2	124236	Arm 6	124336	Block Assembly, Punch 4
72508	Screw (6-40 x 3/4 Hex) 6	124243	Bracket, Stop Arm 3	124341	Brake 2
73175	Washer, Lock 6, 10	124244	Washer, Felt 5	124342	Shaft 2
74036	Nut (10-32 Hex) 2, 5, 6	124245	Pawl 3	124343	Spacer 5
74554	Post, Spring 3	124246	Pawl 3	124344	Stud 5
74805	Screw (10-32 x 3/4 Hex) 2	124247	Stud 3	124350	Connector, Plug (17 Pt) 7
74807	Nut (10-32 Hex) 11	124248	Plate, Stop 3	124351	Post 6
76099	Washer, Flat 10	124249	Spacer 3	124354	Box, Contact 7
76299	Spring 2	124250	Stud 3	124355	Insulator (.010") 3
76804	Spring 6	124251	Stud 5	124356	Guard, Tape 8
76966	Screw, Set (10-32) 10	124252	Link 5	124357	Bracket 8
78469	Foot, Rubber 9	124254	Shaft 6, 10	124358	Bearing, Ball 6
82474	Terminal 2	124255	Link 6	124360	Bar, Right 2
85422	Screw (10-32 x 15/16 Hex) 12	124256	Clamp 6	124361	Bar, Left 2
89896	Oiler 5	124257	Arm, Toggle 5	124362	Plate, Mounting 2
90436	Wick, Felt 5	124258	Screw, Shoulder (4-40) 5	124363	Bar 2
90437	Wick, Felt 5	124259	Stud 5	124364	Bracket, Left 2
90560	Washer, Flat 6	124260	Pawl, Feed 6	124365	Bracket, Right 2
90791	Washer, Lock 7	124266	Link, Adjustable Pawl 6	124366	Strip, Front 2
91683	Nut (15/32-32 Hex) 2	124268	Bracket 6	124367	Strip, Rear 2
91684	Nut (15/32-32 Ring) 2	124269	Link 6	124368	Plate, Receptacle Mounting 2
92128	Bearing, Ball 6, 10	124270	Shaft 6	124369	Strip 2
93107	Bearing, Ball 6	124271	Clamp 6	124370	Plate 2
93117	Washer, Lock 6	124272	Spacer 6	124371	Stud 2
93118	Washer, Lock 2, 7	124273	Arm, Bearing 6	124372	Box, Chad 2
93582	Washer, Flat 6	124274	Clamp 6	124373	Bracket 2
95320	Switch, SP-ST Toggle 2	124275	Spacer 6	124374	Bushing 2
98436	Spacer 9	124276	Screw (4-40 x 1-3/64 Fil) 6	124375	Plate, Front 2
100516	Screw (10-32 x 1-1/4 Fil) 2	124277	Bail 5, 6	124376	Spacer 2
101115	Eccentric 3	124279	Link, Feed Punch 5	124377	Plate 2
104124	Screw (1/4-32 x 11/32 Hex) 11	124280	Shaft 5	124380	Guide 2
104705	Bearing, Ball 6	124281	Spacer 6	124381	Stud 2
104824	Spring 3	124282	Spacer 3	124382	Washer, Flat 2
108103	Washer, Flat 11	124283	Spacer 3	124383	Reel, Tape 2
108162	Spacer 2	124284	Arm, Toggle 6	124388	Retainer, Tape 2
110434	Screw (4-40 x 3/16 Fil) 2	124285	Post 6	124390	Stud 11
110435	Nut (4-40 Hex) 5, 6, 8, 9	124286	Post 6	124391	Plate, Motor Mounting 11
110743	Washer, Lock 2, 7, 8, 9	124287	Spacer 5	124392	Coupling, Flexible 11
110974	Spring 5	124288	Plate, Front 3	124394	Connector, Plug (4 Pt) 2, 7
		124289	Bearing, Ball 6	124395	Connector, Receptacle (4 Pt) 2

NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
124396	Switch Assembly 2	135259	Modification Kit 11	151176	Base 7
124408	Bracket Assembly 8	135563	Jumper 2-3/4" Green 2	151177	Terminal 7
125011	Washer, Flat 2, 3, 5, 7, 8, 9	135666	Spacer 6	151179	Terminal 7
125015	Washer, Flat 2, 8	135667	Spacer 7	151180	Link, Toggle 7
125126	Screw (2-56 x 9/32 Fil) 7	135668	Spacer 2	151182	Washer, Insulating 7
125683	Bushing, Eccentric 5	135669	Post 2	151183	Insulator 7
129755	Spring, Flat 2	135670	Lever 2	151185	Guide 7
129758	Bracket, Tape Guide 2	135671	Gear (14T) 11	151233	Spacer (.065"Thk) 2
129760	Plate 7	135673	Cover 8	151239	Switch, Sensitive 2
129761	Plate 7	135784	Guard, Gear 11	151335	Stud 2
129762	Plate 8	136127**	Modification Kit 9	151346	Screw (6-40 x 3/8 Fil) 2, 3, 9
129763	Screw (6-40 x 11/16 Fil) 6, 10	139500	Window 9	151359	Cover w/Springs 7
129764	Nut (6-40 Spl) 7	139501	Arm, Stop 9	151415	Block, Terminal 2
129765	Shim (.020") 6	139502	Plate, Bottom 9	151606	Screw (10-32 x 1/4 Hex) 3
129766	Stud 3	139503**	Cover w/Brackets 9	151618	Screw (6-40 x 7/16 Fil) 3, 6
129768	Lever 3, 10	139563**	Cover Assembly 9	151626	Terminal 2
129769	Window, Plastic 8	139770	Spring, Torsion 2	151630	Screw (6-40 x 1/4 Hex) 10
129770	Cover 8	139956	Modification Kit 10	151631	Screw (6-40 x 5/16 Hex) 2
129771	Screw, Thumb (6-40) 7	139957	Bracket 10	151632	Screw (6-40 x 3/8 Hex) 3
135075	Post 11	139958	Disk 10	151637	Screw (4-40 x 1/4 Fil) 2, 3, 7, 8, 9
135076	Gear (84T) 11	139959	Scale 10	151657	Screw (6-40 x 1/4 Fil) 2, 3, 6
135077	Hub, Gear 11	139960	Spacer 10	151658	Screw (6-40 x 5/16 Fil) 7, 8
135079	Bracket, Tape Guide 2, 11	139962	Flywheel w/Block 10	151660	Screw (6-40 x 7/8 Fil) 10
135080	Modification Kit 2, 11	139989	Post 10	151661	Screw (6-40 x 1 Fil) 2
135086	Retainer, Tape 2	139990	Post 10	151685	Screw (4-40 x 5/16 Fil) 7
135093	Spacer 12	139991	Post, Spring 10	151686	Screw (4-40 x 3/8 Fil) 6
135094	Pulley, Toothed (19T) 12	139992	Button 10	151690	Screw (10-32 x 5/16 Fil) 2
135095	Retainer, Belt 12	139997	Washer, Spring 10	151692	Screw (6-40 x 3/16 Fil) 3
135096	Hub 12	142743	Shim (.004") 3	151693	Screw (6-40 x 9/16 Fil) 9, 12
135097	Belt, Toothed (38T) 12	143007	Pick-Up, Magnetic 10	151721	Screw (6-40 x 3/4 Hex) 12
135175	Wheel, Feed 5	150040	Screw (6-40 x 5/8 Fil) 11	151723	Screw (10-32 x 3/8 Hex) 2
135176	Link 6	150411	Washer, Flat 7	151724	Screw (10-32 x 5/8 Hex) 2
135177	Block Assembly, Punch 4	150966	Insulator (1-4) 2	151731	Screw (4-40 x 7/8 Fil) 7
135178	Pulley, Toothed (18T) 12	151073	Screw (4-40 x 5/32 Fil) 6	151733	Screw (4-40 x 9/16 Fil) 11
135179	Hub 12	151171	Toggle, Contact 7	151820	Spring, Contact 7
135247	Oiler, Felt 5	151173	Screw, Contact (4-40) 7	153442	Screw (10-32 x 1/2 Hex) 11

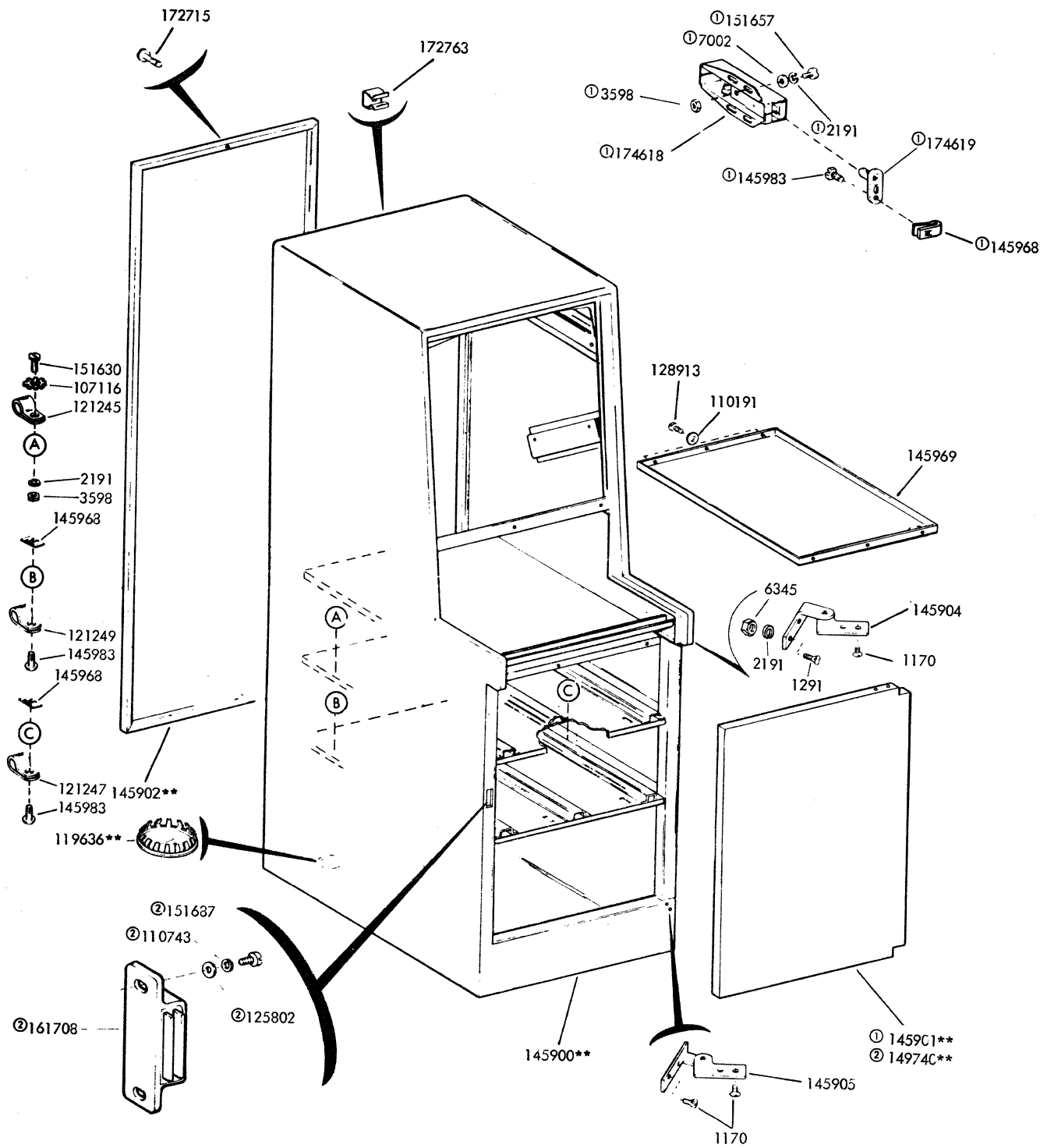
HIGH SPEED TAPE RECEIVER CABINET (AC)
AND
MODULES (TRD AND TRSC)
TYPES 1 AND 2
PARTS

FIGURE	CONTENTS	PAGE	FIGURE	CONTENTS	PAGE
1	Cabinet Frame	2	14	199555** Protected Unattended Transmitter	
2	Front Panels	3		Recognizer Module	15
3	Rails and Front Plate	4	15	199555** Protected Unattended Transmitter	
4	Tape Feed-Out Components	5		Recognizer Module (Continued)	16
5	Tape Winder Components	6	16	199570 Signal Generator Assembly	17
6	Chad Blower Components	7	17	146521 and 172322 Circuit Cards	18
7	149787 Modification Kit to Add Brake to Supply Arm on Cabinet	8	18	172323 and 172325 Circuit Cards	19
8	Cables and Components	9	19	172333 and 172347 Circuit Cards	20
9	Receiving Distributor Module (TRD)	10	20	172351 and 172352 Circuit Cards	21
10	Receiving Signal Converter Module (TRSC)	11	21	172355 and 172359 Circuit Cards	22
11	177149** Multi-Voltage Rectifier Module	12	22	172363 and 172369 Circuit Cards	23
12	199593 Modification Kit to Provide Automatic Answer	13	23	172391 and 172393 Circuit Cards	24
13	199552** Protected Unattended Identifier Module	14	24	172394 and 172396 Circuit Cards	25
			25	172431 and 172497 Circuit Cards	26
			26	303650 Circuit Card	27
				Numerical Index	28

PAINT FINISH COLOR CODE CHART (for parts and assemblies requiring a paint finish)									
Color	Finish Suffixes				Color	Finish Suffixes			
	Wrinkle Finish	Smooth Finish	Textured Vinyl	Smooth Vinyl		Wrinkle Finish	Smooth Finish	Textured Vinyl	Smooth Vinyl
Beige		ET			Gray, Federal		BV	GG	
Beige, Light		EL		HC	Gray, Green	AB	BK	GA	
Beige, Rose		ER			Gray, Light		EJ		HB
Black	AA				Gray, Covert				HE
Black, High Gloss		BA			Gray, Olive		EW	GE	HF
Black, Semi Gloss		BB			Gray, Maritime				
Blue, Aqua		EK			Deck	AJ	BJ		
Blue, Brussels Light		EC			Gray, Oxford		EP		
Blue, Medium		ES			Green, Gray	AB	BK	GA	
Brown, Dark	AD				Green, Moss		EN		HD
Brown, Light	AC				Ivory		EM		
Fawn				HG	Pink, Rose		EU		
Gray, Beige			GC		Turquoise		EV		
Gray, Charcoal	AL	BZ	GF	HA	White		EH		
Gray, Dark			GB		Yellow, Pastel		EG		

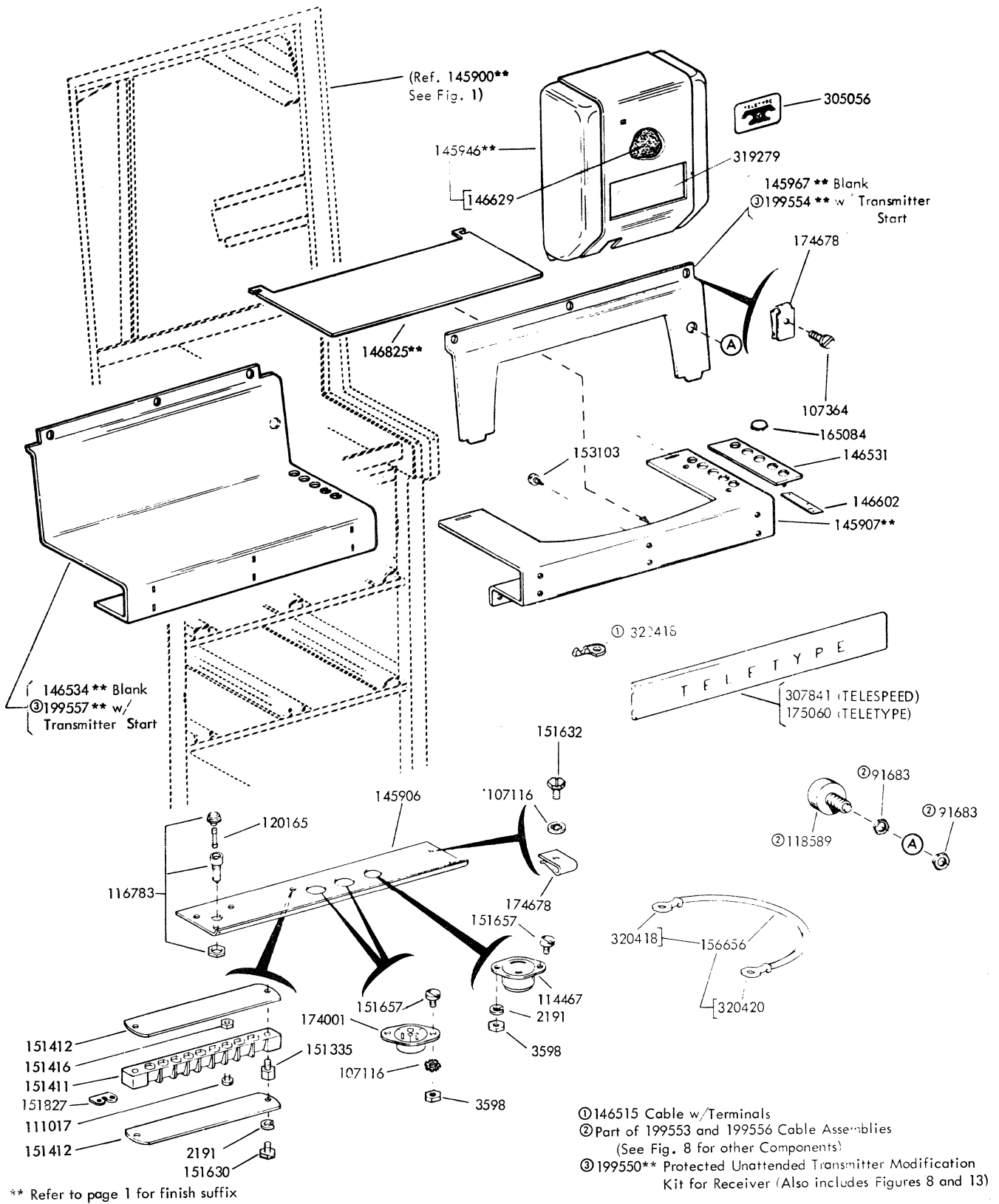
The double asterisk (**) denotes a painted part. Suffix to be applied following the part number.

COLOR CODE CHART FOR MULTI-COLOR APPARATUS		
Color Code	Basic Color	Finish Suffixes
MA	BEIGE	HC and HG
MB	GRAY	HB and HE
MC	GREEN	HD and HB
MH	GRAY	BJ and EJ



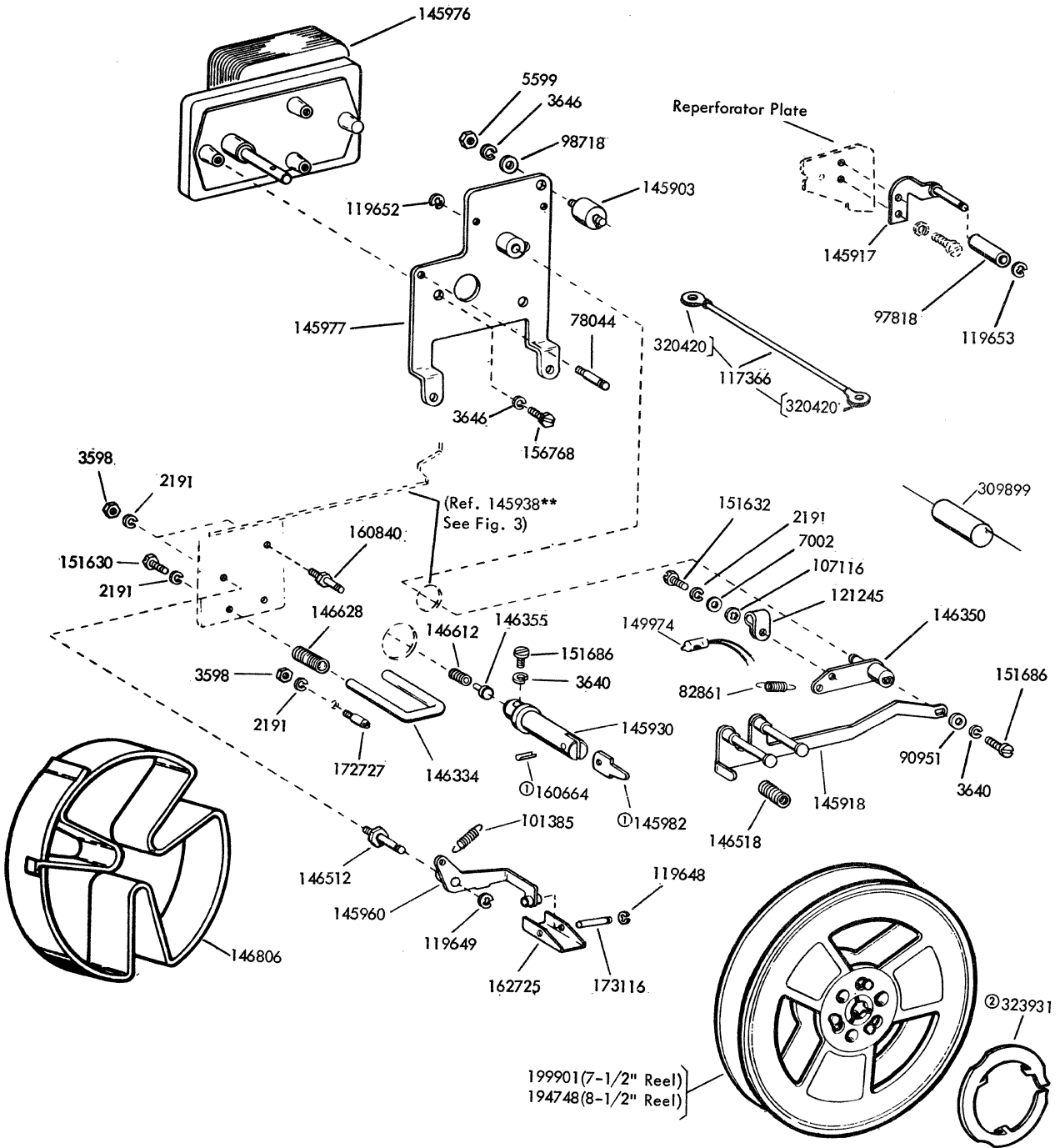
① Early Design Door and Latch
 ② New Design Door and Latch
 **Refer to page 1 for finish suffix

FIGURE 1. CABINET FRAME



** Refer to page 1 for finish suffix

FIGURE 2. FRONT PANELS



**Refer to page 1 for finish suffix

① Part of 145930
② Used to remove static from Tape on Winder Reel.

FIGURE 5. TAPE WINDER COMPONENTS

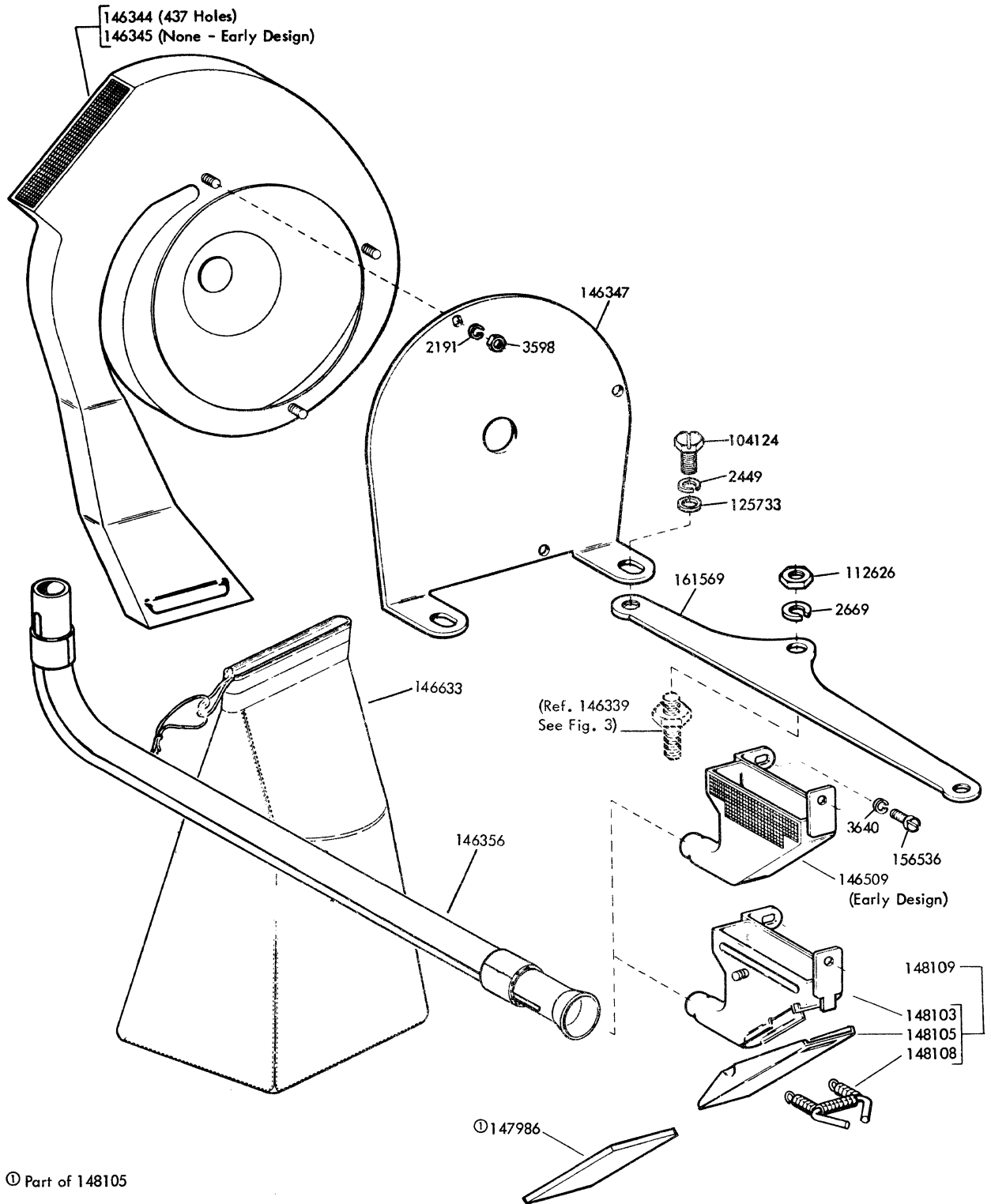
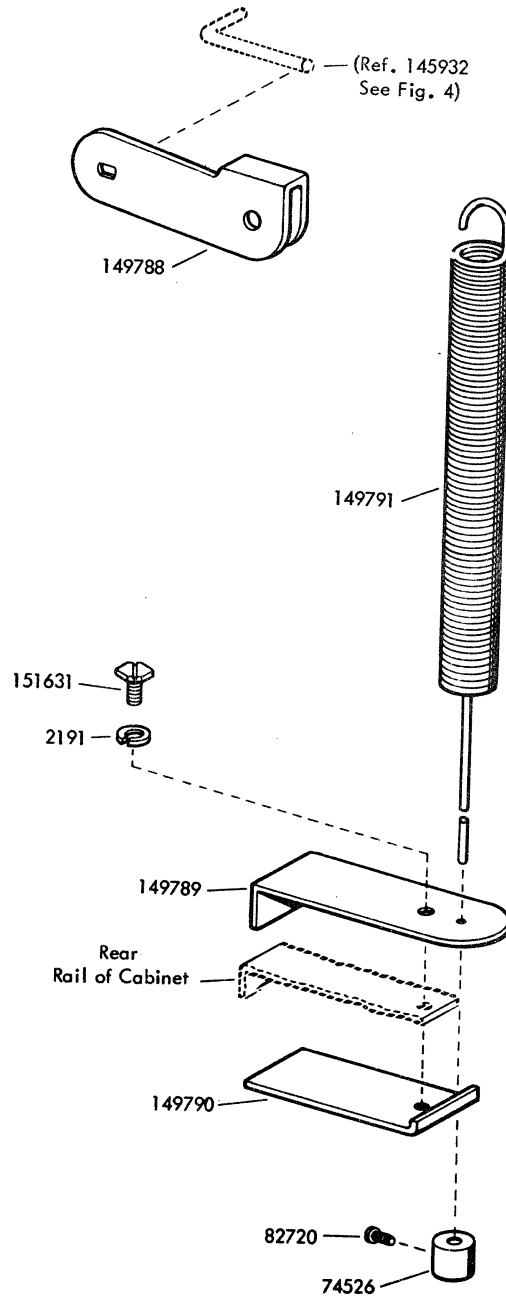


FIGURE 6. CHAD BLOWER COMPONENTS



Specification 50321S

FIGURE 7. 149787 MODIFICATION KIT TO ADD BRAKE TO SUPPLY ARM ON CABINET

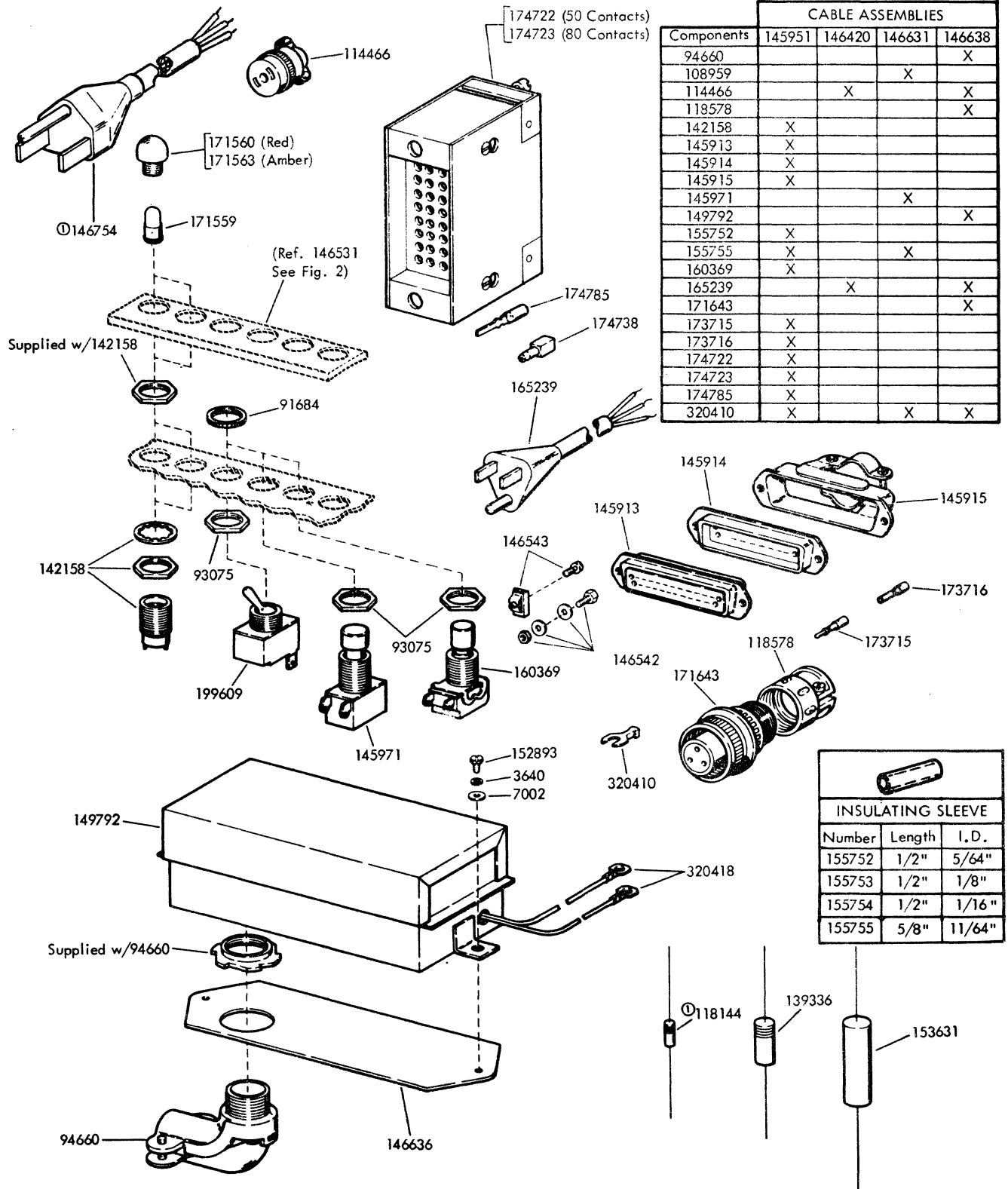


FIGURE 8. CABLES AND COMPONENTS

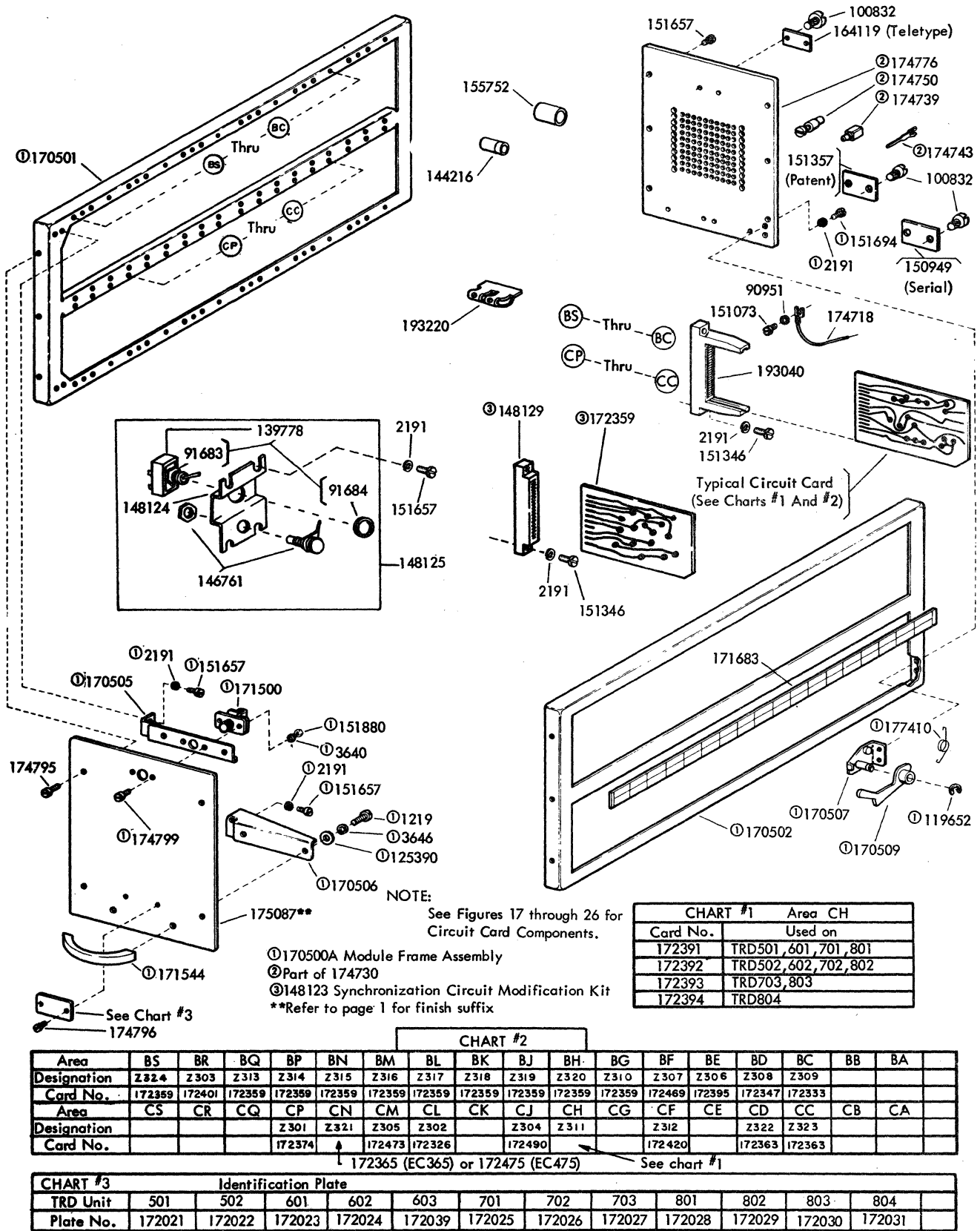
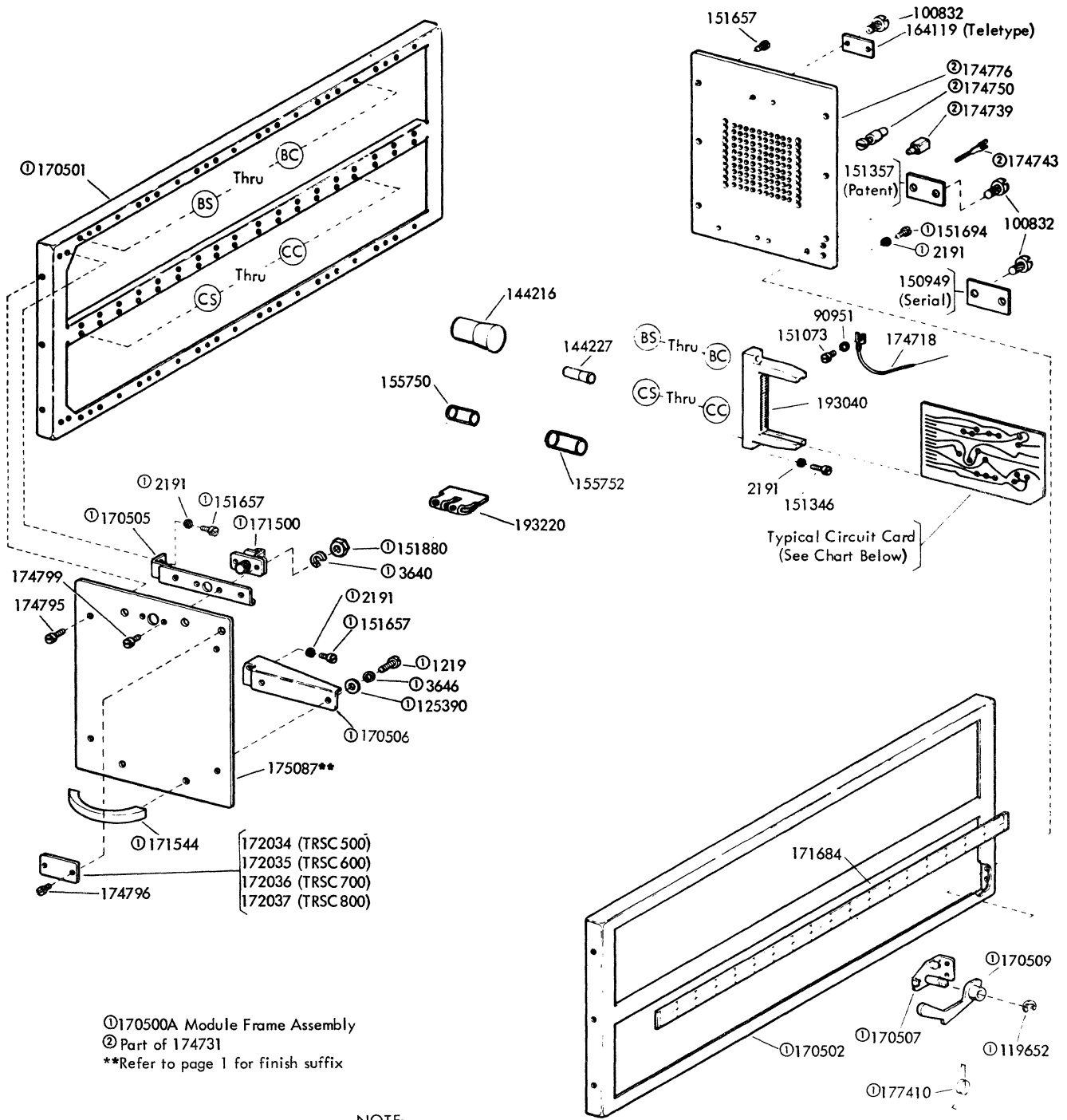


FIGURE 9. RECEIVING DISTRIBUTOR MODULE (TRD)



NOTE:
See Figures 17 through 26 for
Circuit Card Components.

Area	BS	BR	BQ	BP	BN	BM	BL	BK	BJ	BH	BG	BF	BE	BD	BC	BB	BA
Designation	Z 418	Z 417	Z 416	Z 415	Z 414	Z 413	Z 412	Z 411	Z 403	Z 407	Z 406	Z 408	Z 405		Z 410		
Card No.	172359	172359	172359	172359	172359	172359	172359	172359	172359	172469	172351	172347	172322		172333		
Area	CS	CR	CQ	CP	CN	CM	CL	CK	CJ	CH	CG	CF	CE	CD	CC	CB	CA
Designation	Z 427	Z 426	Z 425	Z 424	Z 423	Z 422	Z 421	Z 420	Z 419	Z 409	Z 402	Z 401	Z 429	Z 404	Z 428		
Card No.	172396	172396	172396	172396	172396	172396	172396	172396	172396	172323	172375	172355	172352	172431	172363		

FIGURE 10. RECEIVING SIGNAL CONVERTER MODULE (TRSC)

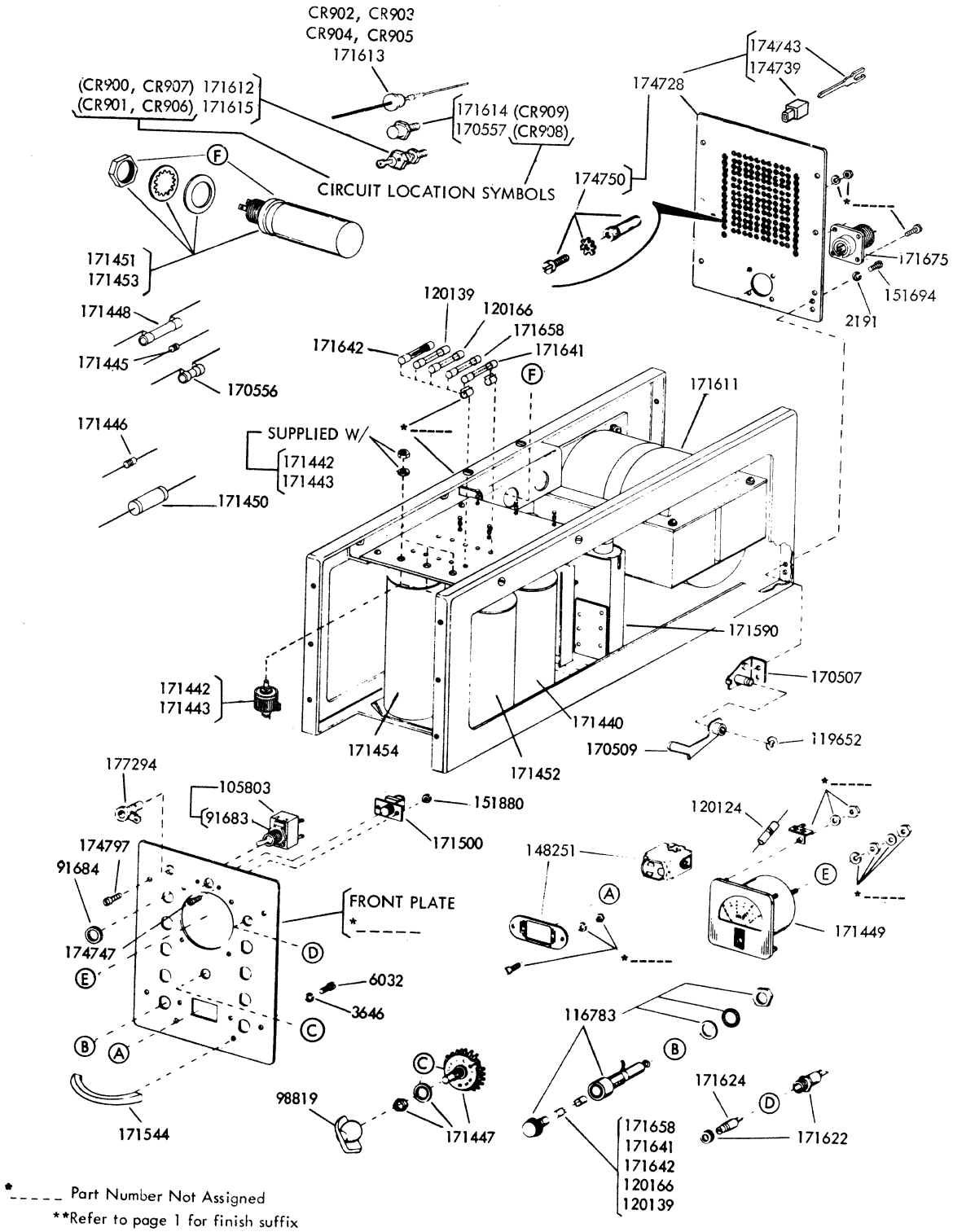


FIGURE 11. 177149** MULTI-VOLTAGE RECTIFIER MODULE

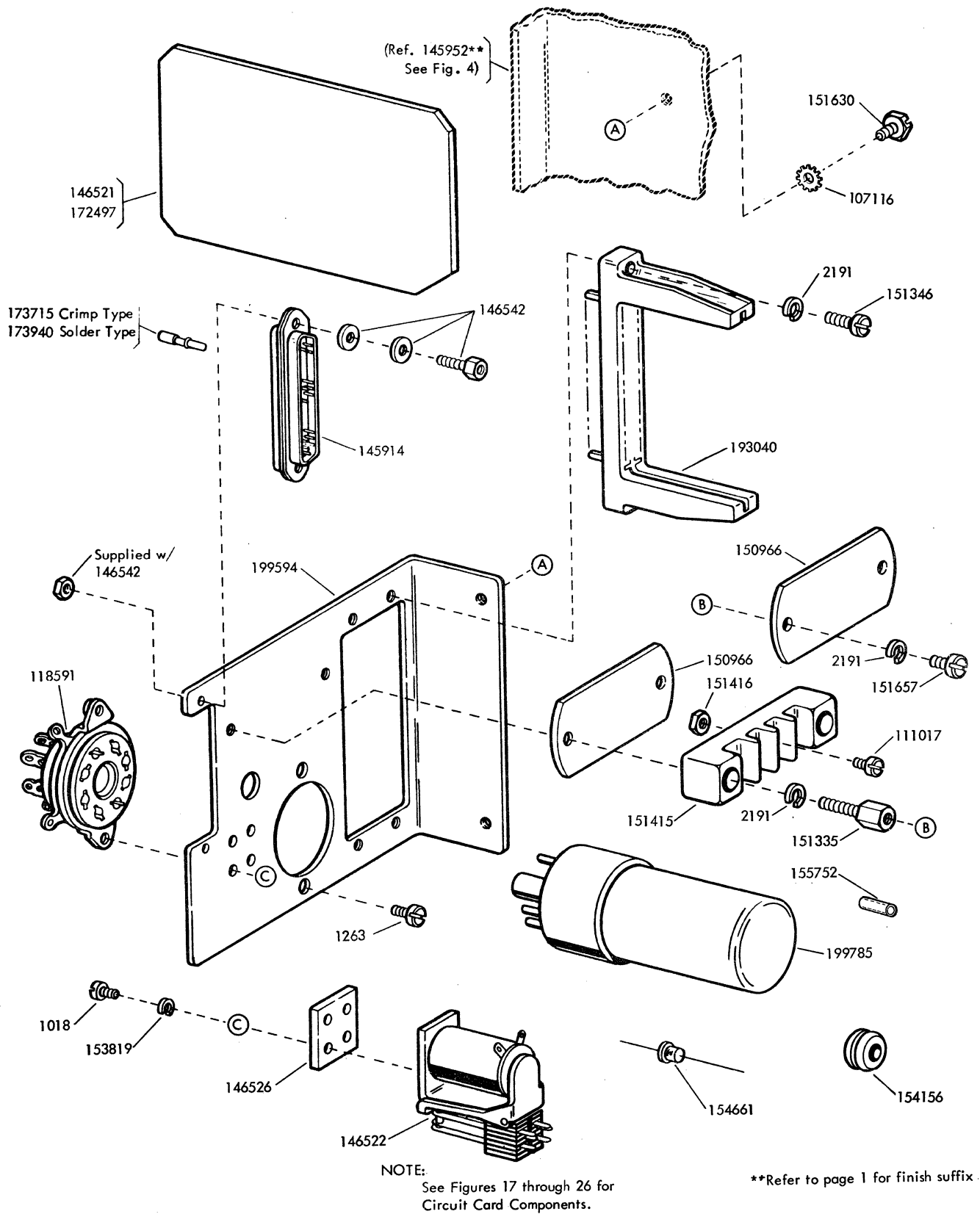


FIGURE 12. 199593 MODIFICATION KIT TO PROVIDE AUTOMATIC ANSWER

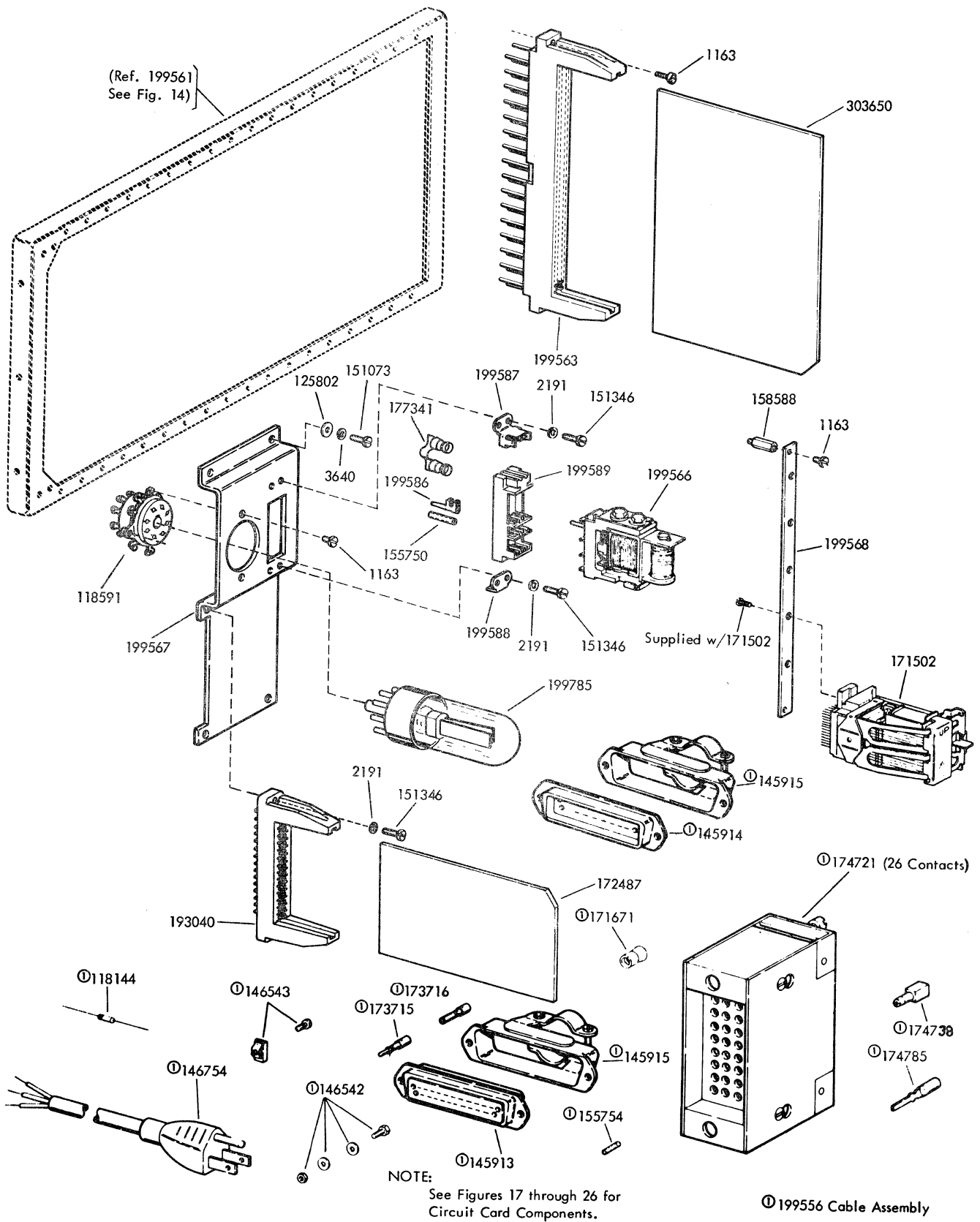
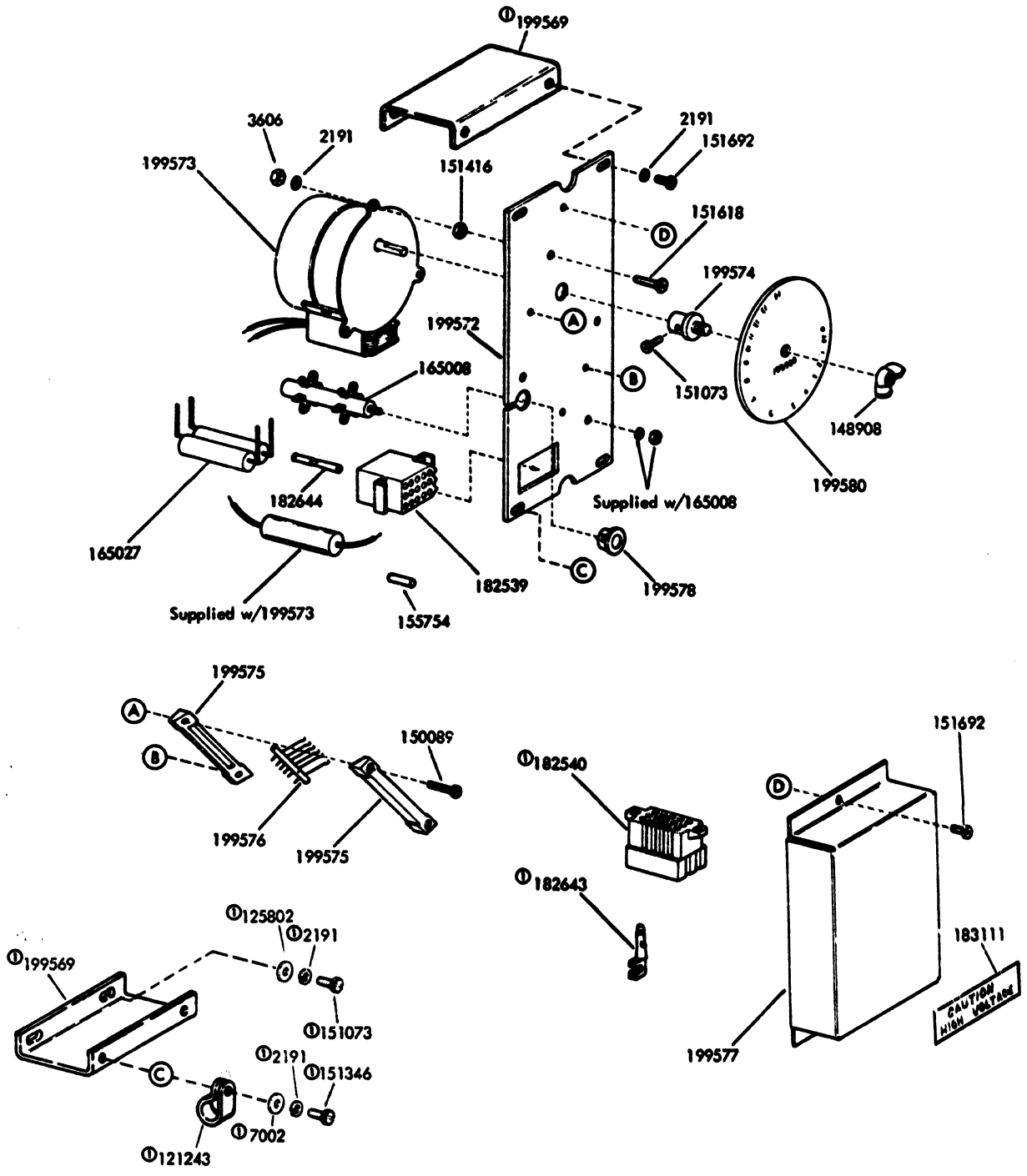
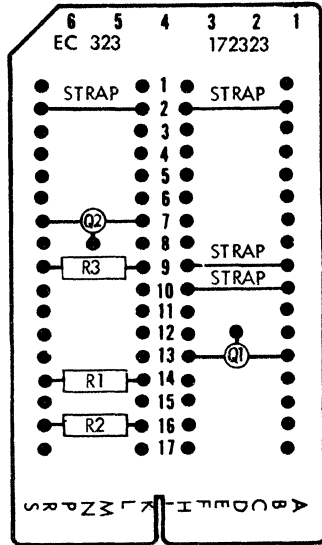


FIGURE 15. 199555** PROTECTED UNATTENDED TRANSMITTER RECOGNIZER MODULE (CONTINUED)

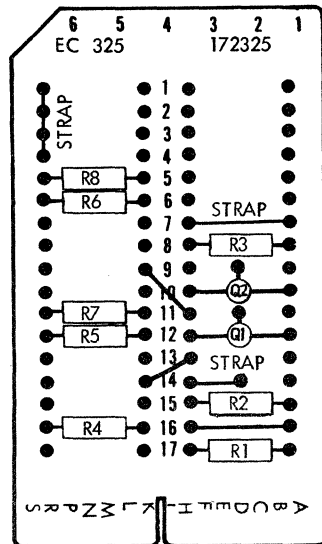


Ⓢ Not Part of 199570

FIGURE 16. 199570 SIGNAL GENERATOR ASSEMBLY

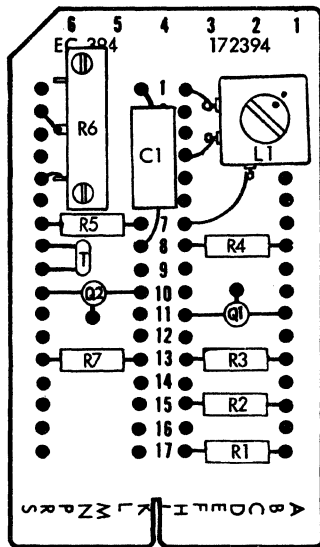


Ref Design	Part Number	Total Qty	Description
R1	118186	1	Resistor, Fixed 5600 Ohm
R2	137438	2	Resistor, Fixed 100 Ohm
R3			Same as R2
Q1	177106	1	Transistor N-33
Q2	177105	1	Transistor N-22
	172065	1	Card, Circuit
	144495	2	Pad, Transistor

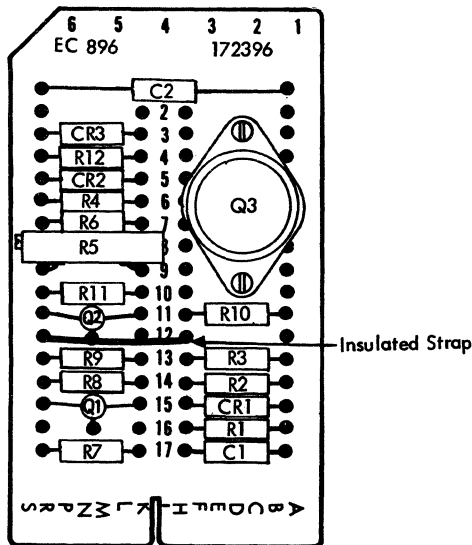


Ref Design	Part Number	Total Qty	Description
R1	118186	1	Resistor, Fixed 5600 Ohm
R2	118146	1	Resistor, Fixed 4700 Ohm
R3	137440	2	Resistor, Fixed 1000 Ohm
R4	137441	1	Resistor, Fixed 1200 Ohm
R5	118725	1	Resistor, Fixed 270 Ohm
R6	137601	2	Resistor, Fixed 68 Ohm
R7			Same as R3
R8			Same as R6
Q1	177105	1	Transistor P-22
Q2	177106	1	Transistor N-33
	172067	1	Card, Circuit
	144495	2	Pad, Transistor
		6	Strap-24Awg Bare

FIGURE 18. 172323 AND 172325 CIRCUIT CARDS

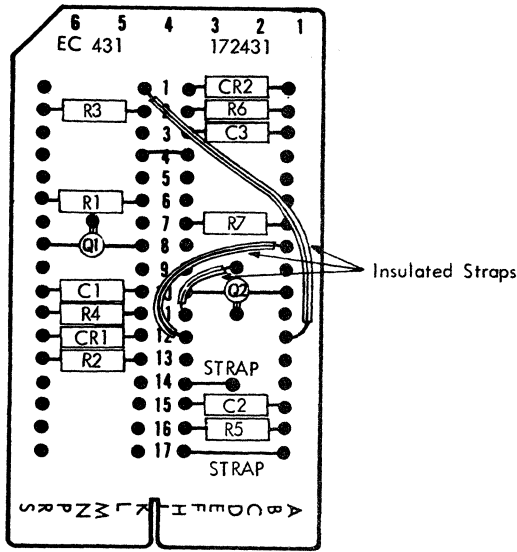


Ref Desig	Part Number	Total Qty	Description
R1	118147	1	Resistor, Fixed 6800 Ohm
R2	129856	1	Resistor, Fixed 150 Ohm
R3			Same as R2
R4	137442	1	Resistor, Fixed 1500 Ohm
R5	137441	1	Resistor, Fixed 1200 Ohm
R6	171565	1	Resistor Variable 10K Ohm
R7	129852	1	Resistor, Fixed 2200 Ohm
T	171830	1	Thermister 10K Ohm
C1	i71834	1	Capacitor, Polystyrene .050 MFD
L1	171686	1	Adjustroid .475H
Q1	177105	2	Transistor P-22
Q2			Same as Q1
	172047	1	Card, Circuit
	121018	2	Nut 4-40 Hex
	90951	2	Lockwasher
	1178	2	Screw 2-56 x .431 Fil
	110446	2	Nut 2-56 Hex
	144495	2	Pad, Transistor

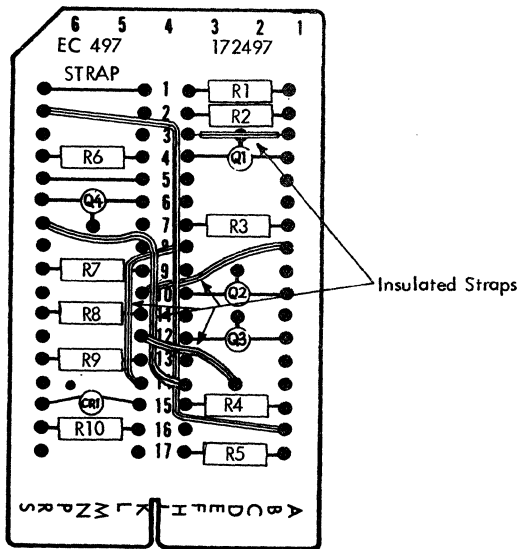


Ref Design	Part Number	Total Qty	Description
C1	171567	1	Capacitor, Ceramic .005 MFD
C2	171579	1	Capacitor, Mylar .47MFD
CR1	177108	3	Diode D-2
CR2			Same as CR1
CR3			Same as CR1
R1	118180	1	Resistor, Fixed 10K Ohm
R2	118144	1	Resistor, Fixed 2700 Ohm
R3	118177	1	Resistor, Fixed 22K Ohm
R4	118147	1	Resistor, Fixed 6800 Ohm
R5	171145	1	Resistor Variable 25K Ohm
R6	137441	2	Resistor, Fixed 1200 Ohm
R7			Same as R6
R8	137442	1	Resistor, Fixed 1500 Ohm
R9	118146	1	Resistor, Fixed 4700 Ohm
R10	129850	1	Resistor, Fixed 680 Ohm
R11	137601	1	Resistor, Fixed 68 Ohm
R12	171589	1	Resistor, Fixed 1 Ohm
Q1	177105	2	Transistor, P-22
Q2			Same as Q1
Q3	171607	1	Transistor, 2N380
	172064	1	Card, Circuit
	144495	2	Pad, Transistor
		1	Strap 24 AWG Insulated

FIGURE 24. 172394 AND 172396 CIRCUIT CARDS

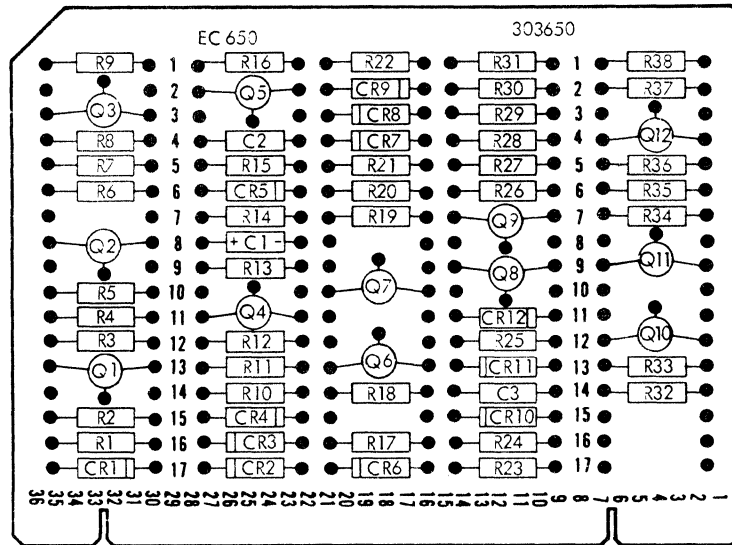


Ref Design	Part Number	Total Qty	Description
C1	171566	1	Capacitor, Ceramic .01MFD
C2	171567	1	Capacitor, Ceramic .005 MFD
C3	171585	1	Capacitor, Mylar .22 MFD
CR1	177108	2	Diode D-2
CR2			Same as CR1
R1	118144	1	Resistor, Fixed 2700 Ohm
R2	137441	1	Resistor, Fixed 1200 Ohm
R3	129852	1	Resistor, Fixed 2200 Ohm
R4	118180	1	Resistor, Fixed 10K Ohm
R5	118186	1	Resistor, Fixed 5600 Ohm
R6	137440	1	Resistor, Fixed 1000 Ohm
R7	118177	1	Resistor, Fixed 22K Ohm
Q1	177106	1	Transistor (NPN) N-33
Q2	177105	1	Transistor (PNP) P-22
	172067	1	Card, Circuit
	144495	2	Pad, Transistor
		3	Straps, Bare 24AWG
		3	Straps, Insulated 24 AWG



Ref Design	Part Number	Total Qty	Description
R1	118177	2	Resistor, Fixed 22K Ohm
R2			Same as R1
R3	118150	1	Resistor, Fixed 15K Ohm
R4	137438	1	Resistor, Fixed 100 Ohm
R5	118166	1	Resistor, Fixed 56 Ohm
R6	129851	2	Resistor, Fixed 3.3K Ohm
R7	118149	1	Resistor, Fixed 12K Ohm
R8	118153	1	Resistor, Fixed 33K Ohm
R9			Same as R6
R10	199591	1	Resistor, Fixed 180 Ohm
CR1	199590	1	Diode, 12V 1.5W
Q1	177105	2	Transistor P-22
Q2			Same as Q1
Q3	177224	1	Transistor P-41
Q4	177422	1	Transistor N-39
	172067	1	Card, Circuit
	144495	4	Pad, Transistor
		6	Strap, 24 AWG Insulated
		2	Strap, 24 AWG Bare

FIGURE 25. 172431 AND 172497 CIRCUIT CARDS



Reference Designation	Teletype Part No.	Total Qty.	Name and Description
C1	179529	1	Capacitor, Tanalium 1.0 MFD.
C2	171567	1	Capacitor, Ceramic .005 MFD.
C3	177332	1	Capacitor, Ceramic .002 MFD.
CR1	177611	2	Diode Silicon
CR2			Same as CR1
CR3			Same as CR1
CR4			Same as CR1
CR5			Same as CR1
CR6	177108	3	Diode, D2
CR7			Same as CR6
CR8			Same as CR6
CR9			Same as CR1
CR10			Same as CR1
CR11			Same as CR1
CR12			Same as CR1
R1	118146	2	Resistor, Fixed 4.7K
R2	118150	2	Resistor, Fixed 15K
R3	137441	6	Resistor, Fixed .12K
R4	129852	2	Resistor, Fixed 2.2K
R5	118147	3	Resistor, Fixed 6.8K
R6	118146		Same as R1
R7	118150		Same as R2
R8	137441		Same as R3
R9	118186	2	Resistor, Fixed 5.6K
R10	137441		Same as R3
R11	137441		Same as R3
R12	137602	2	Resistor, Fixed 470 Ohms
R13	137438	1	Resistor, Fixed 100 Ohms
R14	118157	1	Resistor, Fixed 68K
R15	137441		Same as R3
R16	118151	2	Resistor, Fixed 18K
R17	129851	4	Resistor, Fixed 3.3K
R18	129851		Same as R17
R19	118177	4	Resistor, Fixed 22K

Reference Designation	Teletype Part No.	Total Qty.	Name and Description
R20	118177	1	Same as R19
R21	129851		Same as R17
R22	118177		Same as R19
R23	129851		Same as R17
R24	118147		Same as R5
R25	118177		Same as R19
R26	118728	1	Resistor, Fixed 3.9K
R27	118147		Same as R5
R28	129852		Same as R4
R29	118186		Same as R9
R30	137441		Same as R3
R31	118151		Same as R16
R32	137443	2	Resistor, Fixed 1.8K
R33	118149	1	Resistor, Fixed 12K
R34	137443		Same as R32
R35	118724	1	Resistor, Fixed 220 Ohms
R36	137602		Same as R12
R37	118148	1	Resistor, Fixed 10K
R38	118144	1	Resistor, Fixed 27K
Q1	177105	7	Transistor P22
Q2	177224	4	Transistor P41
Q3	177105		Same as Q1
Q4	177610	1	Transistor Unijunction
Q5	177105		Same as Q1
Q6	177105		Same as Q1
Q7	177105		Same as Q1
Q8	177224		Same as Q2
Q9	177105		Same as Q1
Q10	177224		Same as Q2
Q11	177224		Same as Q2
Q12	177105		Same as Q1
EC	199559	1	Card, Circuit
	144495	1	Pad, Transistor

FIGURE 26. 303650 CIRCUIT CARD

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
1018	Screw, 3-48 x 5/16 Fil 13	110191	Washer, Lock 2,4	137440	Resistor, Fixed 1000 Ohm 19,20,24,26
1163	Screw, 4-40 x 3/16 Fil 14,16	110446	Nut, 2-56 Hex 24,25	137441	Resistor, Fixed 1,200 Ohm 18,19,20,21,22,25,26,27
1170	Screw, 6-32 x 5/16 Flat 2	110743	Washer, Lock 2,4	137442	Resistor, 1,500 Ohm 18,21,24,25
1178	Screw, 2-56 x 7/16 Fil 24,25	111017	Screw, 6-40 x 5/16 Fil 3,4,5,13	137443	Resistor, 1,800 Ohm 27
1219	Screw, 8-32 x 5/16 Fil 10,11,14,15,16	112626	Nut, 10-32 Hex 4,7	137601	Resistor, Fixed 68 Ohm 19,25
1263	Screw, 6-32 x 1/4 Fil 13	114466	Connector, 3 Pt Receptacle 9	137602	Resistor, 470 Ohm 27
1264	Screw, 10-32 x 1/2 Flat 4	114467	Connector, 3 Pt Plug 3	139336	Resistor, 150 Ohm 9
1291	Screw, 6-32 x 3/4 Flat 2	115594	Nut, Speed 5	139778	Switch, DP-DT Toggle 10
2191	Washer, Lock 2 to 8,10 to 17	116783	Holder, Fuse 3,12	142158	Holder, Lamp 9
2449	Washer, Lock 7	117366	Jumper, 8-1/2" Green 6	142964	Board, Terminal 4
2669	Washer, Lock 4,7	118144	Resistor, 2,700 Ohm 9,16,18,21,22,25 to 27	143000	Contact Assembly, Tape Out 5 Stud 5
3438	Washer, Flat 4,5	118146	Resistor, Fixed 4700 Ohm 19,20,25,27	143003	143003
3598	Nut, 6-40 Hex 2 to 7	118147	Resistor, 6,800 Ohm 21,24,25,27	143004	Cover, Insulating 5
3606	Nut, 6-40 Hex 17	118148	Resistor, 10,000 Ohm 27	143656	Resistor, 51 Ohm 21,22
3640	Washer, Lock 5,6,7,9,10,11,14 to 16	118149	Resistor, 12,000 Ohm 23,26,27	143667	Resistor, 3,900 Ohm 21
3642	Washer, Flat 4	118150	Resistor, 15,000 Ohm 26,27	144216	Guide, Spacing Pin 10,11
3646	Washer, Lock 4,5,6,10,11,12,14,15	118151	Resistor, 18,000 Ohm 27	144227	Connector, Black Insulated 11
5599	Nut, 8-32 Hex 4,5,6	118151	Resistor, 18,000 Ohm 27	144495	Pad, Transistor Mounting 18,19,20,21,22,24 to 27
6032	Screw, 8-32 x 7/16 Fil 12	118153	Resistor, 33,000 Ohm 26	145900**	Shell, Cabinet 2,3
6344	Screw, 6-32 x 11/32 Hex 5	118157	Resistor, 68K Ohm 27	145901**	Door, Front 2
6345	Nut, 6-32 Hex 2	118166	Resistor, 56 Meg Ohm 26	145902**	Panel, Rear 2
7002	Washer, Flat 2,4,5,6,9,17	118177	Resistor, 22,000 Ohm 18,21,22,25,26,27	145903	Mount, Vibration 6
35551	Screw, 10-32 x 3/8 Flat 4	118180	Resistor, 10,000 Ohm 18,21,25,26	145904	Hinge, Right 2
41746	Bushing, Insulating 5	118186	Resistor, Fixed 5,600 Ohm 18,19,22,26,27	145905	Hinge, Left 2
42827	Screw, 3-48 x 1/4 Fil 4	118578	Clamp, 3/4 ID Cable 9	145906	Panel, Service 3
70529	Stiffener 5	118589	Switch, Black Pushbutton 3	145907**	Panel, Control 3
71695	Spacer, x250" Thk 5	118591	Socket, Tube 13,16	145909	Channel, Left 4
74526	Collar 8	118724	Resistor, 220 Ohm 24,27	145910	Channel, Right 4
74728	Terminal, Contact 5	118725	Resistor, Fixed 270 Ohm 19	145913	Connector, 25 Pt Receptacle Type 9,14,16
75750	Washer, Insulating 4	118728	Resistor, 3,900 Ohm 27	145914	Connector, 25 Pt Plug Type 5,9,13,14,16
76099	Washer, Flat 4	119636**	Button, Plug 2	145915	Clamp, Cable 9,14,16
77902	Screw, 6-40 x 2-3/8 Rd 4	119648	Ring, Retaining 6	145917	Bracket w/Post 6
78044	Post, Spring 6	119649	Ring, Retaining 6	145918	Arm, Tape 6
82097	Spring, Contact 5	119652	Ring, Retaining 5,6,10,11,12,14,15	145930	Hub Assembly 6
82547	Insulator, .094" Thk 5	119653	Ring, Retaining 6	145932	Arm, Tape Brake 5,8
82548	Insulator, .062" Thk 5	120124	Resistor, 33,000 Ohm 12	145938**	Panel, Front 4,6
82720	Screw, 6-40 Set 8	120139	Fuse, 1 Amp 12	145941	Tray, Chad Bag 4
82832	Washer, Lock 4	120165	Fuse, 10 Amp 3	145942	Box, Chad 4
82861	Spring 6	120166	Fuse, 2 Amp 12	145943	Frame, Inner 4
83960	Washer, Flat 4	121018	Nut, 4-40 Hex 24,25	145946**	Cover w/Pad 3
84666	Spring, Contact 5	121243	Clamp, 3/16 ID Cable 17	145948	Brace 4
84705	Spring, Contact 5	121244	Clamp, 1/4 ID Cable 4	145949	Space 4
89897	Nut, 10-32 Hex 4	121245	Clamp, 5/16 ID Cable 2,6	145950	Bracket, Vibration Mount 4
90951	Washer, Lock 6,10,11,24,25	121247	Clamp, 7/16 ID Cable 2,5	145951	Cable Assembly 9
91228	Strap, 2-1/2" Braided 4	121249	Clamp, 5/8 ID Cable 2	145952**	Panel, Divider 5,13
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