

SERVICE MANUAL

CV-2562 Color Monitor

NOTE: This product is part of the 'A'-Line Color Television Receivers of Zenith Electronics Corporation. The material contained herein is reprinted from the Zenith Service Manual.

The purpose of this page is to make sure that all service bulletins are entered in this manual. When a service bulletin is received, mark the manual and list the information in the record below.

Record of Field Service Bulletins

SERVICE BULLETIN NUMBER	DATE OF ISSUE	CHANGED PAGE(S)	PURPOSE OF SERVICE BULLETIN	INITIALS

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St. Joseph, Michigan 49085

Contents

Introduction

Table 1: CV2562 Modules

Product Safety Servicing Guidelines

CV2562 Color TV Monitor

Interconnect Diagram, Modular Monitor CV2562

Schematic, 9-227-01 through -04 RGB Main Module

Legend (A), 9-227-01 through 9-227-04 RGB Main Module

Legend (B), 9-227-01 through 9-227-04 RGB Main Module

Schematic and Legend, A-12302-05 Secondary Control Assembly

Schematic, 9-365 Sweep Board — RGB Color Monitor

Legend, 9-365 Sweep Board — RGB Color Monitor

Schematic, 9-155-23 Medium Resolution Video Output

Legend, 9-155-23 Medium Resolution Video Output

Introduction

The CV2562 is a medium-resolution 25-inch (diagonally measured) color monitor that can be used to display the output of a video cassette recorder/player, video disc player, or personal computer. Up to 450 lines of resolution can be displayed using either RGB or composite video signals. A green-only switch allows the monitor to be used in applications requiring 80 characters of text per line, blanking the red and blue picture elements for enhanced readability.

Table 1 describes the modules used in the CV2562.

Table 1: CV2562 Modules

MODULE/PART NUMBER	DESCRIPTION
9-155-23	CRT socket module
9-227-02	Main module
9-230-03	RGB interface
9-365	High voltage and horizontal sweep module
14-11582-01	Cabinet rear
20-3918-25	Degausser coil
24-2971-01	Control cover
49-1334-01	Speaker
57-9002-01	CRT escutcheon
63-10914	On/off volume control assembly
85-1559 and 95-3406-02	Deflection yoke
206-948	Operator's manual
A-8846	On/off volume control knob
A-9731-03	AC line cord
A-10177-02	Light sensor
A-12302-05	Secondary control assembly
A-12696-01	Cabinet front
A-12802	High voltage power supply assembly
A63AAX01X	CRT

The following pages are reprints from the Zenith Electronics Corporation service manual on this product.

PRODUCT SAFETY SERVICING GUIDELINES FOR COLOR TELEVISION RECEIVERS

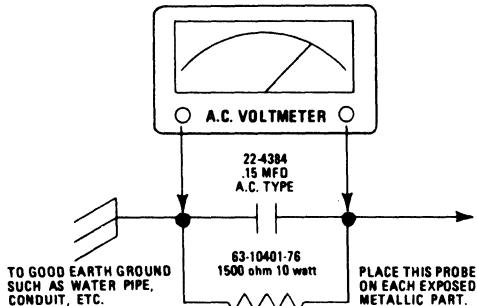
CAUTION: No modification of any circuit should be attempted. Service work should be performed only after you are thoroughly familiar with all of the following safety checks and servicing guidelines. To do otherwise increases the risk of potential hazards and injury to the user.

SAFETY CHECKS

After the original service problem has been corrected, a check should be made of the following:

SUBJECT: FIRE & SHOCK HAZARD

1. Be sure that all components are positioned in such a way as to avoid possibility of adjacent component shorts. This is especially important on those chassis which are transported to and from the repair shop.
2. Never release a repair unless all protective devices such as insulators, barriers, covers, shields, strain reliefs, and other hardware have been reinstalled per original design.
3. Soldering must be inspected to discover possible cold solder joints, frayed leads, damaged insulation (including AC cord), solder splashes or sharp solder points. Be certain to remove all loose foreign particles.
4. Check the "across-the-line" capacitor and other components for physical evidence of damage or deterioration and replace if necessary. Follow original layout, lead length and dress.
5. No lead or component should touch a receiving tube or a resistor rated at 1 watt or more. Lead tension around protruding metal surfaces must be avoided.
6. All critical components (shaded on the schematic diagram and parts lists) such as fuses, flameproof resistors, capacitors, etc. must be replaced with exact Zenith types. Do not use replacement components other than those specified or make unrecommended circuit modifications.
7. After re-assembly of the set always perform an AC leakage test on all exposed metallic parts of the cabinet, (the channel selector knobs, antenna terminals, handle and screws) to be sure the set is safe to operate without danger of electrical shock. **DO NOT USE A LINE ISOLATION TRANSFORMER DURING THIS TEST.** Use an AC voltmeter, having 5000 ohms per volt or more sensitivity, in the following manner: Connect a 1500 ohm 10 watt resistor (63-10401-76), paralleled by a .15 mfd. 150V AC type capacitor (22-4384) between a known good earth ground (water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination 1500 ohm resistor and .15 mfd. capacitor. Reverse the AC plug and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed .75 volts RMS. This corresponds to 0.5 milliamp AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



SUBJECT: IMPLOSION

1. All Zenith picture tubes are equipped with an integral implosion protection system, but care should be taken to avoid damage during installation. Avoid scratching the tube.
2. Use only recommended Zenith replacement tubes.

SUBJECT: X-RADIATION

1. Be sure procedures and instructions to all service personnel cover the subject of X-radiation. The only potential source of X-rays in current TV receivers is the picture tube. However, this tube does not emit X-rays when the H.V. is at the factory specified level. It is only when the H.V. is excessive that X-radiation may be generated. Refer

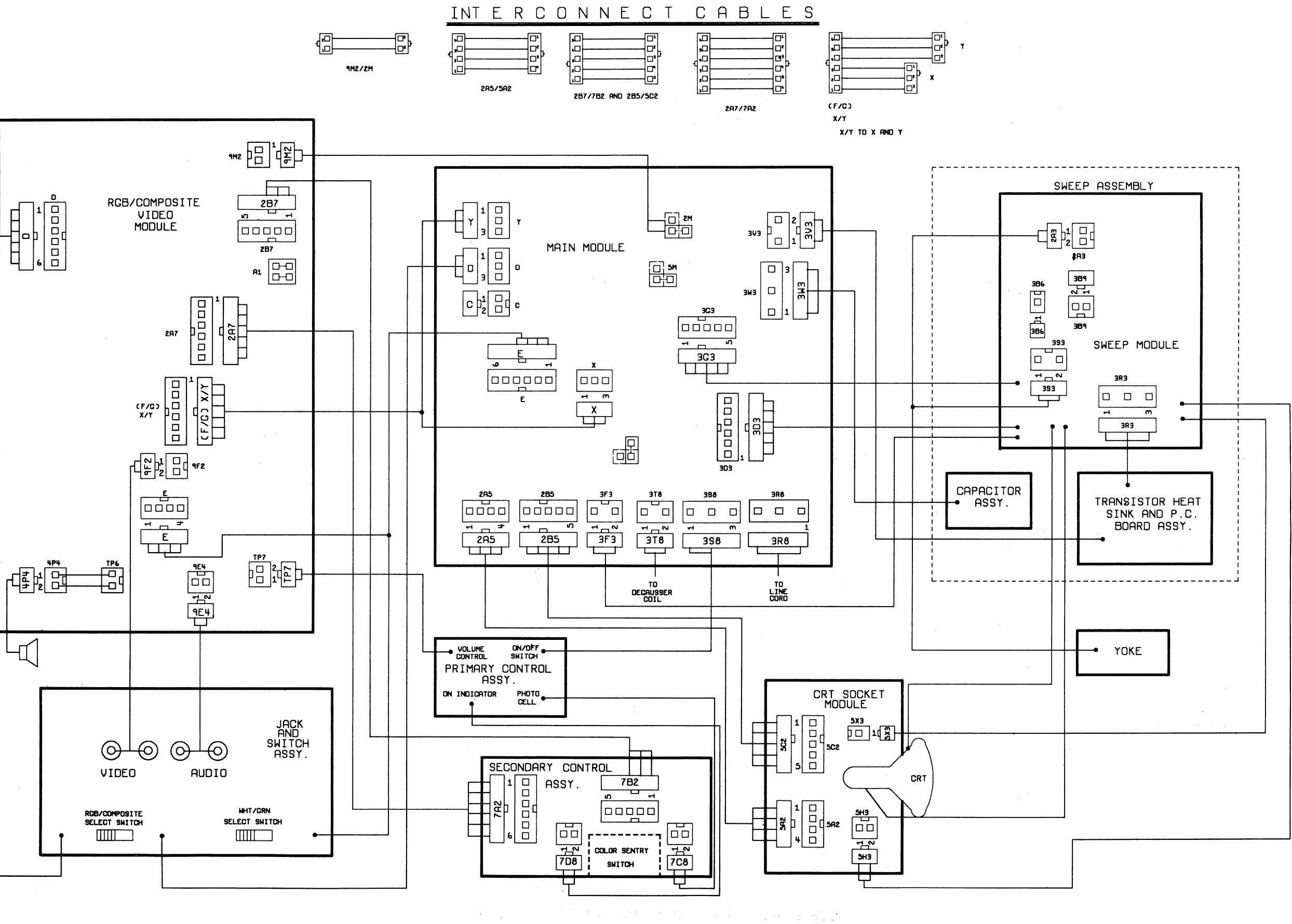
to the X-ray Precaution Label which is located inside each television receiver for the correct high voltage. The proper value is also given in the applicable service manual. Operation at higher voltages may cause a failure of the picture tube or high voltage supply and, under certain circumstances, may produce radiation in excess of desirable levels.

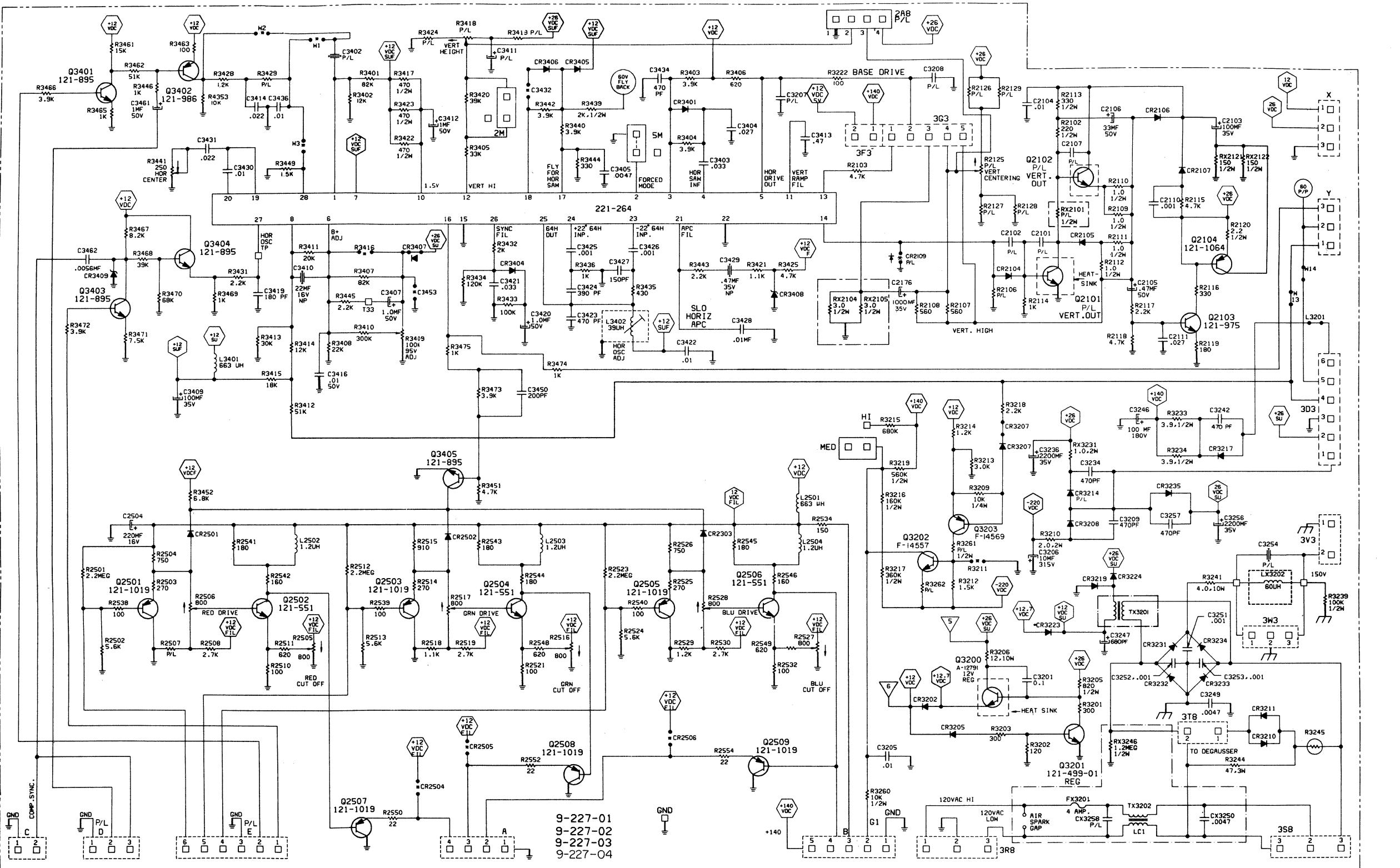
2. Only Zenith specified CRT anode connectors must be used. The degaussing shield also serves as an X-ray shield in color sets, do not defeat its purpose.
3. It is essential that the serviceman has available an accurate and reliable high voltage meter. The calibration of the meter should be checked periodically against a reference standard, such as the one available at your distributor.
4. When the high voltage circuitry is operating properly there is no possibility of an X-radiation problem. Every time a color chassis is serviced, the brightness should be run up and down while monitoring the high voltage with a meter to be certain that the high voltage does not exceed the specified value and that it is regulating correctly. We suggest that you and your service organization review test procedures so that voltage regulation is always checked as a standard servicing procedure, and that the high voltage reading be recorded on each customer's invoice.
5. When trouble shooting and making test measurements in a receiver with a problem of excessive high voltage, avoid being unnecessarily close to the picture tube and the high voltage compartment. Do not operate the chassis longer than is necessary to locate the cause of excessive voltage.
6. Color transistor sets manufactured after June, 1973 ("E" Line and later), use new type picture tubes specifically designed to withstand higher operating voltages without causing excessive X-radiation. It is strongly recommended that the C.R.T. shop fixture be equipped with the new type tube. Addition of a permanently connected H.V. meter to the H.V. anode of the shop C.R.T. fixture is advisable. The C.R.T.'s in these sets should never be replaced with any other tube types as that may result in excessive X-radiation and possible violation of the law.
7. Starting with late production "E" line color sets, a special four lead damper capacitor was used. Its feature, the interlocking four leads, should not be defeated. However, each time one of these sets is serviced, for whatever reason, the part number of the capacitor should be examined. If it is the 22-7233 type (used in "E" and "F" model lines only), that capacitor must be replaced with an improved recommended type (22-7504-01). Please refer to Zenith Tech Topics (Issue No. 87) for the details. Your distributor will answer any questions, or you may write to Zenith for further details.

SUBJECT: TIPS ON PROPER INSTALLATION

1. Never install any receiver in a closed-in recess, cubbyhole or closely fitting shelf space.
2. Never install a receiver over, or close to a heat duct, or in the path of heated air flow.
3. Avoid conditions of high humidity such as; outdoor patio installations where dew is a factor, near steam radiators where steam leakage is a factor, etc.
4. Avoid placement where draperies may obstruct rear venting. The customer should also avoid the use of decorative scarves or other coverings which might obstruct ventilation.
5. Wall and shelf mounted installations using a commercial mounting kit, must follow the factory approved mounting instructions.
6. A receiver mounted to a shelf or platform must retain its original feet (or the equivalent thickness in spacers) to provide adequate air flow across the bottom. Bolts or screws used for fasteners must not touch any parts or wiring. Perform leakage tests on customized installations.
7. Caution customers against the mounting of a receiver on a sloping shelf or in a tilted position, unless the receiver is properly secured.
8. A receiver in a roll-about cart should be stable in its mounting to the cart. Caution the customer on the hazards of trying to roll a cart with small casters across thresholds or deep pile carpets.
9. Caution customers against the use of a cart or stand which has not been listed by Underwriters Laboratories, Inc. for use with their specific model of television receiver.

CV2562 COLOR TV MONITOR					
PART NO	REF CODE	DESCRIPTION	PART NO	REF CODE	DESCRIPTION
PRINCIPAL COMPONENTS					
A-9731-03		LINE CORD & CONNECTOR HOUSING ASSEMBLY (3R8)	86-798-03		TERMINAL PIN (15 REQ)
A-10177-02		LIGHT SENSOR & PCB ASSEMBLY (SEE BREAKDOWN WITHIN THIS LIST)	86-799		TERMINAL PIN (15 REQ)
A-12302-05		SECONDARY CONTROLS & PCB ASSEMBLY (SEE BREAKDOWN WITHIN THIS LIST)	A-12802		HORIZ OUTPUT TRANSISTOR, HEAT SINK & REGULATOR TRANSFORMER ASSEMBLY (SEE A-12802 BREAKDOWN WITHIN THIS LIST)
A-12696-01		MAIN CABINET & SPEAKER ASSEMBLY (A-12696-01 BREAKDOWN WITHIN THIS LIST)	9-365		HORIZ AGC & HORIZ SWEEP MODULE (SEE 9-365 PARTS LIST FOR COMPONENTS)
A-12802		HORIZ OUTPUT TRANSISTOR, HEAT SINK & REGULATOR TRANSFORMER PCB ASSEMBLY (SEE BREAKDOWN WITHIN THIS LIST)	19-733-01		CABINET TIE STRAP (2 PC)
9-155-23		CRT SOCKET MODULE (SEE 9-155-23 PARTS LIST FOR COMPONENTS)	114-802		8-18X5/16X1/4AF HEX WASHER HD THD FORM SCREW TP B STAT BRONZE (2 REQ)
9-227-02		RGB MAIN MODULE (SEE 9-227-02 PARTS LIST FOR COMPONENTS)	157-44		SINGLE PIECE PUSH-IN FASTENER INSULATING STRIP
9-230-03		RGB/COMPOSITE VIDEO INTERFACE MODULE (SEE 9-230-03 PARTS LIST FOR COMPONENTS)	194-1029-01		
9-365		HIVOLTAGE & HORIZ SWEEP MODULE (SEE 9-365 PARTS LIST FOR COMPONENTS)	A-12802 HORIZ OUTPUT TRANSISTOR, HEAT SINK & REGULATOR TRANSFORMER PCB ASSEMBLY		
14-11582-01		CABINET REAR DEGAUSSER COIL (SEE 20-3918-25 BREAKDOWN WITHIN THIS LIST)	A-9943-07		CABLE & HOUSING ASSEMBLY (3W3) REGULATOR TRANSFORMER & PCB ASSEMBLY (SEE A-12891 BREAKDOWN WITHIN THIS LIST)
20-3918-25		DEGAUSSER COIL (SEE 20-3918-25 BREAKDOWN WITHIN THIS LIST)	A-12891		HEAT SINK & MTG BRACKET (MTS 9-365 SWEEP MODULE)
46-10335		ON/OFF PUSH-BUTTON KNOB (PART OF A-12696-01)	12-8276-03		CABLE TIE STRAP CLAMP
49-1334-01		SPEAKER, OVAL 3"X6 1/2"	19-733-01		530pF ±10% 3000V CERAMIC DISC CAP 300/180/1700/180V ELECTROLYTIC CAP
57-9002-01		CRT ESCUTCHEON	19-981		22-7735-01 SOCKET TRANSISTOR M3-1/2 HEX WASHER HD METRIC THD SCREW (2 REQ)
63-10914		VOLUME CONTROL	22-6466		8-18X3/8X1/4AF HEX WASHER HD THD FORM SCREW TP B STAT BRONZE (2 REQ)
95-3406-02		DEFLECTION YOKE (SEE 95-3406-02 BREAKDOWN WITHIN THIS LIST)	22-7735-01		6-30X2/8X1/4AF HEX WASHER HD THD FORM SCREW TP B STAT BRONZE
136-113-23		FUSE, 4 AMP 250V SUN SCREEN	112-2367		8-18X3/8X1/4AF HEX HD W/WASHER THD FORM SCREW TP B STAT BRONZE
192-726		CRT (A63AA0X1X)	114-802-01		HORIZ OUTPUT TRANSISTOR, NPN INSULATING STRIP, TRANSISTOR
CONTROL PANEL COMPONENTS					
A-8846		ON/OFF VOLUME CONTROL & BRACKET ASSEMBLY (SEE ON/OFF VOLUME CONTROL ASSEMBLY BREAKDOWN WITHIN THIS LIST)	121-1033		A-12891 REGULATOR TRANSFORMER & PCB ASSEMBLY
A-10177-02		VOLUME CONTROL KNOB ASSEMBLY	194-678		CABLE & HOUSING ASSEMBLY (3V3) CABLE & HOUSING ASSEMBLY (3R3)
A-12302-05		LIGHT SENSOR PCB ASSEMBLY (SEE A-10177-02 BREAKDOWN WITHIN THIS LIST)	A-9941-25		CABLE TIE STRAP
19-733-04		SECONDARY CONTROL ASSEMBLY (SEE A-12302-05 BREAKDOWN WITHIN THIS LIST)	A-9943-12		1000pF ±10% 500V CERAMIC DISC CAP
24-2971-01		CABLE RETAINING TIE	19-733-01		180pF ±10% 3000V CERAMIC DISC CAP
43-1938-02		CONTROL COVER	22-5688		530pF ±10% 3000V CERAMIC DISC CAP (3 REQ)
73-205-02		HOUSING, CONTROL PANEL	22-5704		0.01μF ±20% 2000V CERAMIC DISC CAP
93-2115-01		8-32X6.53 SPECIAL SET SCREW SLOTTED (3) (CONTROLLER DOOR)	22-6466		0.18Ω 10% 5W WIREWOUND RES
114-1393		WASHER, MM FLAT	22-7523-01		0.33Ω 10% 3W WIREWOUND RES
156-149-01		8-10X1/2X1/4AF HEX WASHER HD HI RISE THD CUT SCREW (5 REQ, 3 MT A-12302-05 SEC CONT TO 43-1938-02 HSG & 2 MT VOLUME CONT BRKT TO 43-1938-02 HSG)	63-10444-06		EYELET, ROLLER FLANGE SPRING, BRAZED UNDER COATED TERMINAL, CLOSED END
192-723-04		CATCH WITH KEEPER (MTS FRAME)	63-10852-02		REGULATING TRANSFORMER
194-663-03		CRYSTAL WINDOW INSULATOR ROUND	64-519-01		DIODE, LOW VOLT
ON-OFF, VOLUME CONTROL & BRACKET COMPONENTS					
A-10150-01		CABLE & HOUSING ASSEMBLY (3S8)	64-1032		DIODE, LOW VOLT
12-8653		METAL BRACKET, CONTROL MTG	86-1032		CORE, FERRITE BEAD
19-733-04		CABLE RETAINING TIE	90-21		
50-209-64		CABLE & HOUSING ASSEMBLY (TP7)			
63-10914		VOLUME CONTROL			
85-1559-02		ON/OFF SWITCH, PUSH-BUTTON			
114-584		4-24X1/4X3/16A1 HEX HD SLOTTED THD FORM SCREW, TP BC ADIUM (3 REQ, 2 MT 85-1559-02 SWCH TO 12-8653 BRKT, 1 MT A-10177-02 PC BOARD TO 12-8653 BRKT)			
A-10177-02 LIGHT SENSOR & PCB ASSEMBLY					
A-8865-03		RED EMITTING DIODE, PREFORMED LEADS	A-9941-07		CABLE & HOUSING ASSEMBLY (3T8) COIL, DEGAUSSER
22-7859-08		47μF 20% 16V ELECTROLYTIC CAP	20-3918-25		SPICE CAP, CRIMP TYPE (2 REQ)
50-209-65		CABLE & HOUSING ASSEMBLY (7C8)	78-3021-02		2 POSITION F SLOT CONNECTOR HSG (3T8)
50-209-66		CABLE & HOUSING ASSEMBLY (7D8)	79-317-03		HEAT SHRINKABLE SLEEVE (2 REQ)
162-10		PHOTOVARISTOR SLEEVE	125-230		STRAIN RELIEF
199-642					
A-12302-05 SECONDARY CONTROL ASSEMBLY					
63-10235-72		1KΩ 5% 1/4W FILM RES	A-9919-62		CABLE & HOUSING ASSEMBLY (D)
63-10235-73		1100Ω 5% 1/4W FILM RES	A-11217-03		CABLE & HOUSING ASSEMBLY (E)
63-10235-77		1600Ω 5% 1/4W FILM RES	A-11218-06		JACK & BRACKET ASSEMBLY (S1AKING)
63-10235-86		3900Ω 5% 1/4W FILM RES	A-11861-01		CABLE & HOUSING ASSEMBLY (D)
63-10762		BLACK LEVEL CONTROL	A-11862		CABLE & HOUSING ASSEMBLY (E)
63-10763		PICTURE CONTROL	A-11886		OVERLAY, AUTO/DEO
63-10763-01		SHARPNESS CONTROL	30-1076		OVERLAY, SWITCH RGB/COMP
63-10763-01		COLOR ADJUST CONTROL	30-1076-01		75.5Ω 5% 1/4W FILM RES
63-10857-11		CONTROL SERVICE ADJUST (2 REQ)	63-10243-45		JACK, SINGLE (2 REQ)
64-1211-01		COLOR LEVEL/TINT & BRIGHTNESS RANGE	78-2215-02		JACK, PHONO SINGLE (YELLOW)
85-1594		EYELET, TUBULAR (24 REQ)	78-19-06		SLEEVING (2 REQ)
		COLORSENTRY LEVER SWITCH (3 POSITION)	85-1614		SLIDE SWITCH, AUTO/MANUAL
			85-1640-01		SLIDE SWITCH (RGB/COMP)
			86-623		TERMINAL SPRING
JACK & CONNECTOR COMPONENTS					
63-10235-72		1KΩ 5% 1/4W FILM RES			
63-10235-73		1100Ω 5% 1/4W FILM RES			
63-10235-77		1600Ω 5% 1/4W FILM RES			
63-10235-86		3900Ω 5% 1/4W FILM RES			
63-10762		BLACK LEVEL CONTROL			
63-10763		PICTURE CONTROL			
63-10763-01		SHARPNESS CONTROL			
63-10763-01		COLOR ADJUST CONTROL			
63-10857-11		COLOR LEVEL/TINT & BRIGHTNESS RANGE			
64-1211-01		EYELET, TUBULAR (24 REQ)			
85-1594		COLORSENTRY LEVER SWITCH (3 POSITION)			





EMATIC, 9-227-01 THRU -04 RGB MAIN MODULE

SPECIAL SAFETY COMPONENTS:
THE "X" IN THE ELECTRICAL SCHEMATIC AND PARTS LIST,
INDICATES SPECIAL CRITICAL SAFETY COMPONENTS. THESE SHOULD
BE ORDERED ONLY WITH TYPES IDENTICAL TO THOSE IN THE ZENITH
ELECTRICAL SCHEMATIC AND PARTS LIST.

CV2562 COLOR TV MONITOR (Cont.)											
REF #	HOUSING PART #	# OF POS.	TERMINAL PART #	PART OF ASSEMBLY #	PART NO	REF CODE	DESCRIPTION HARDWARE				
CONNECTOR REFERENCE DESIGNATION OF CABLE & HOUSING ASSEMBLIES, HOUSINGS & PLUGS											
D	78-3039-06	6	P/O HSG	A-9919-62	112-2280		8-18X4 RECESSED CROSS-CUT FLAT HD THD FORM SCREW, TP B, BLACK OXIDE (3 REQ)				
E	78-3039-04	4	P/O HSG	A-11862	112-2407		8-10X3/4 RECESSED CROSS-CUT HI RISE TRUSS HD THD CUT SCREW, STAT BRONZE (3 MT CONT PANEL TO CABT)				
TP7	78-3039-02	2	P/O HSG	50-209-64			8-18X0/8X1/4AF HEX WASHER HD THD CUT SCREW, TP B, STAT BRONZE (5 REQ 3 MT CRT TO 12-8228, 2 MT 12-8228 RGB BRKT TO 12-8327-01 VERT BRKT)				
X	78-3039-03	3	P/O HSG	A-11677-03	114-1154		8-18X1/2 X1/4AF HEX WASHER HD THD FORM SCREW, TP AB, STAT BRONZE				
XY	78-3039-03	3	P/O HSG	A-11677-03			8-18X5/8X1/4AF HEX WASHER HD THD FORM SCREW, TP AB, STAT BRONZE ESC BOT MTG				
Y	78-3039-03	3	P/O HSG	A-11677-03			8-18X1/1/4AF HEX WASHER HD THD FORM SCREW, TP AB, STAT BRONZE (2 MT 9-227-02 TO SHELF)				
2A5	78-3039-04	4	P/O HSG	50-445-02			8-18X7/8X1/4AF HEX HD W/WASHER THD FORM SCREW, TP AB, STAT BRONZE (2 MT 12-8228 RGB BRKT TO CABT REAR SCREW HI RISER (11 REQ 2 MTA-12891 TC CABT, 9 MT 57-09002-01 TO CABT)				
2A7	78-3039-06	6	6P/O HSG	50-249-06	114-1156		10-32X1/2X1/4AF HEX HD W/WASHER MACHINE SCREW, CADMIUM (4 MT CRT)				
2B5	78-3039-05	5	P/O HSG	50-248-04			8-15X3/4X1/4AF HEX WASHER HD THD CUT SCREW, TP 17, STAT BRONZE (2 MT 12-08372-01 TO SHELF)				
2B5	78-3039-05	5	P/O HSG	50-248-10	114-1190		8-15X3/4X1/4AF HEX WASHER HD THD CUT SCREW, TP 17, STAT BRONZE (4 MT CABT BACK TO CABT)				
2B7	78-3039-05	5	P/O HSG	50-248-09							
3R3	78-3021-03	3	P/O HSFA-9943-12								
3S8	78-3021-03	3	P/O HSG	A-10150-01	114-1202						
3T8	78-3021-02	2	P/O HSG	A-9941-07							
3V3	78-3021-03	3	P/O HSG	A-9941-25	114-1286						
3W3	78-3021-03	3	P/O HSG	A-9943-07							
4P4	78-3039-02	2	P/O HSG	50-246-02							
5A2	78-3039-04	4	P/O HSG	50-445-02	114-1393-01						
5C2	78-3039-05	5	P/O HSG	50-248-04							
5C2	78-3039-05	5	P/O HSG	50-248-10							
7A2	78-3039-06	6	P/O HSG	50-249-06	114-1432-01						
TB2	78-3039-05	5	P/O HSG	50-248-09							
TCB	78-3039-02	2	P/O HSG	50-209-65	114-1436						
TDB	78-3039-02	2	P/O HSG	50-209-66							
9E4	78-3039-02	2	P/O HSG	A-11217-03	114-1436-01						
9F2	78-3039-02	2	P/O HSG	A-11218-06							
PART NO	REF CODE	DESCRIPTION	CV2562 CABINET COMPONENTS PART OF A-12696-01								
MINOR COMPONENTS											
A-12718-01		PACKING CARTON									
A-12811		SPEAKER CABLE & HSG ASSEMBLY (4P4)									
12-7850-01		PLASTIC RAIL (2 REQ MTS PCB)									
12-8228		BRACKET, PCB MTG (2 REQ)									
12-8372-01		BRACKET, VERTICAL MOUNT									
12-8514		BRACKET, GLASS SUPPORT									
19-550		RETAINING CLIP (4 REQ)									
19-550-01		WIRE TIE PURSE-LOCK									
19-733-05		CABLE TIE STRAP (4 REQ)									
19-1018		CLIP, GLASS RETAINING (2 REQ)									
24-2941		MODULE COVER									
30-1090-02		OVERLAY, DECORATIVE									
52-2514-01		75Ω COAXIAL CABLE & PLUGS									
52-2515-01		SHIELDED CABLE & PLUGS									
78-3110		ADAPTOR JACK									
86-733-06		LOCKING TERMINAL, WIRE MT (2 REQ)									
125-198-04		STRAIN RELIEF, HINGE TYPE									
125-217		STRAIN RELIEF, CRIMP TYPE									
127-265-01		GROUNDRING CONTACT (CRT)									
149-477		FERRITE CORE, THREADED (ADD TO WIDTH COIL WHEN NEEDED)									
152-326-01		Yoke Adj Wedge (3 REQ)									
192-726		SUN SCREEN									
194-250-30		CUSHIONING CORRUGATED MATERIAL									
194-1188-01		FIBERBOARD SHEET									
206-948		OPERATING GUIDE									
OPTIONAL AT EXTRA COST											
			STATIC CONVERGENCE HELPER (APPROX 4 3/4" LONG)								
			STATIC CONVERGENCE HELPER (APPROX 3 1/2" LONG)								

27-02 MAIN MODULE

9-227-02 MAIN MODULE			
ART NO	REF CODE	DESCRIPTION	PART NO
831		COILS	63-10235-76
887-01		RCF COIL (2 REQ L2501, L3401)	63-10235-79
026		RCF COIL (3 REQ L2502, L2503 & L2504)	63-10235-80
		RCF TUNABLE (L3402)	63-10235-82
512		CAPACITORS	63-10235-83
6854	0.01 μ F +40% -10% 1000V CERAMIC DISC (C3205)	63-10235-84	1500 Ω 1/4W 5% FILM (2 REQ R3112, R3429)
390-02	0.1 μ F 20% 125V (CX3258)	63-10235-86	2000 Ω 1/4W 5% FILM (R3432)
395	0.47 μ F 20% 50V ELECTROLYTIC (C2105)	63-10235-88	2200 Ω 1/4W 5% FILM (5 REQ R2117, R3218, R3431, R3443)
404-06	22 μ F 20% 16V ELECTROLYTIC (4 REQ C3209, C3234, C3242 & C3257)	63-10235-90	2700 Ω 1/4W 5% FILM (3 REQ R2508, R2519, R2530, R3428)
406-01	22 μ F 20% 16V ELECTROLYTIC (C3410)	63-10235-92	3000 Ω 1/4W 5% FILM (R3213)
431-06	0.47 μ F \pm 20% 35V ELECTROLYTIC (C3429)	63-10235-93	3300 Ω 1/4W 5% FILM (R3419)
562-32	1 μ F 20% 35V ELECTROLYTIC (C3402)	63-10235-94	3900 Ω 1/4W 5% FILM (7 REQ R3403, R3404, R3440, R3442, R3466, R3472, R3473)
603-01	0.0047 μ F \pm 20% CERAMIC DISC (2 REQ C3249, CX3250)	63-10235-96	4700 Ω 1/4W 5% FILM (5 REQ R2103, R2115, R2118, R3425, R3451)
613-08	0.47 μ F 5% 100V POLYESTER (C3413)	63-10235-98	5600 Ω 1/4W 5% FILM (3 REQ R2502, R2513, R2524)
613-24	10 μ F +100% -10% 315V LYTIC (C3206)	63-10236	6800 Ω 1/4W 5% FILM (R3452)
619-41	470pF 10% 50V CERAMIC DISC (C3423)	63-10236-02	7500 Ω 1/4W 5% FILM (R3471)
647-35	0.01 μ F 10% 50V CERAMIC DISC (3 REQ C2104, C3422, C3430)	63-10236-03	8200 Ω 1/4W 5% FILM (R3467)
678	200pF 5% 50V CERAMIC DISC (C3450)	63-10236-04	10K Ω 1/4W 5% FILM
708-09	150pF 5% 50V CERAMIC DISC (C3427)	63-10236-07	12K Ω 1/4W 5% FILM (2 REQ R2570, R3414)
709-09	100 μ F +100% -10% 180V LYTIC (C3246)	63-10236-08	15K Ω 1/4W 5% FILM (R3461)
710-01	100 μ F \pm 50-10% 25V LYTIC (C3411)	63-10236-10	18K Ω 1/4W 5% FILM (R3415)
710-07	100 μ F \pm 50-10% 35V ELECTROLYTIC (C3409)	63-10236-13	20K Ω 1/4W 5% FILM (R3411)
742-05	1 μ F +50-10% 50V ELECTROLYTIC (4 REQ C3407, C3412, C3420, C3461)	63-10236-16	22K Ω 1/4W 5% FILM (R3408)
742-06	33 μ F \pm 50-10% 50V ELECTROLYTIC (C2106)	63-10236-18	30K Ω 1/4W 5% FILM (R3213)
742-10	390pF 10% 50V CERAMIC TUBULAR (C3424)	63-10236-20	33K Ω 1/4W 5% FILM (R3405)
751-39	470pF 10% 50V CERAMIC TUBULAR (C3434)	63-10236-22	39K Ω 1/4W 5% FILM (2 REQ R3420, R3468)
773-17	1000pF 10% 50V CERAMIC TUBULAR (C3426)	63-10236-31	51K Ω 1/4W 5% FILM (2 REQ R3412, R3462)
773-18	(4 REQ C2110, C3207, C3425, C3426)	63-10236-52	68K Ω 1/4W 5% FILM (R3470)
774-09	180pF 5% 50V CERAMIC TUBULAR	63-10243-11	82K Ω 1/4W 5% FILM (2 REQ R3401, R3407)
774-12	0.027 μ F 5% 100V POLYESTER (C3404)	63-10243-56	100K Ω 1/4W 5% FILM (R3433)
774-14	0.033 μ F 5% 100V POLYESTER (2 REQ C3403, C3421)	63-10243-60	120K Ω 1/4W 5% FILM (R3402, R3434)
774-16	0.0056 μ F 10% 100V POLYESTER (C3462)	63-10243-63	300K Ω 1/4W 5% FILM (R3410)
775-08	0.01 μ F 10% 100V POLYESTER (2 REQ C3428, C3436)	63-10243-64	2.2 MEGOHM 1/4W 5% FILM
802-07	0.015 μ F 10% 100V POLYESTER (2 REQ C2101, C2107)	63-10243-79	(3 REQ R2501, R2512, R2523)
811	0.022 μ F 10% 100V POLYESTER (3 REQ C2102, C3414, C3431)	63-10244-20	3 Ω 1/2W 5% FILM (2 REQ RX2104, RX2105)
859-10	0.027 μ F 10% 100V POLYESTER (C2111)	63-10244-24	220 Ω 1/2W 5% FILM (R2102)
860-09	0.0047 μ F 20% 100V POLYESTER (C3405)	63-10244-33	330 Ω 1/2W 5% FILM
860-29	0.01 μ F 20% 50V CERAMIC TUBULAR (C3416)	63-10244-38	(3 REQ R2113, R3417, R3423)
861-09	1000 μ F 10% 1000V CERAMIC DISC	63-10244-40	430 Ω 1/2W 5% FILM (R2126)
861-13	(3 REQ C3251, C3252, C3253)	63-10244-51	470 Ω 1/2W 5% FILM (2 REQ R3422)
861-14	220 μ F 20% 16V ELECTROLYTIC (C2504)	63-10422-24	2000 Ω 1/2W 5% FILM (R3439)
7900-01	100 μ F 20% 25V ELECTROLYTIC (C2106)	63-10422-24	10K Ω 1/2W 5% FILM (R3260)
-113-23	100 μ F 20% 25V ELECTROLYTIC (C2107)	63-10422-24	100K Ω 1/2W 5% FILM (R3229)
	1000 μ F 20% 25V ELECTROLYTIC (C2108)	63-10422-24	150K Ω 1/2W 5% FILM (R3261)
	100 μ F 20% 35V ELECTROLYTIC (C2103)	63-10422-24	160K Ω 1/2W 5% FILM (R3216)
	1000 μ F 20% 35V ELECTROLYTIC (C2176)	63-10422-24	360K Ω 1/2W 5% FILM (R3217)
	1000 μ F 20% 35V ELECTROLYTIC (C2176)	63-10422-24	560K Ω 1/2W 5% FILM (R3219)
	1220 μ F 20% 16V ELECTROLYTIC (C2504)	63-10430-64	680K Ω 1/2W 5% FILM (R3215)
	100 μ F 20% 25V ELECTROLYTIC	63-10460-50	2 Ω 2W 5% WIREWOULD (R3210)
	680 μ F 20% 25V ELECTROLYTIC (C3247)	63-10565	1 Ω 2W 10% WIREWOULD (RX3231)
	100 μ F 20% 35V ELECTROLYTIC (C2103)	63-10565-08	47 Ω 3W 10% WIREWOULD (R3244)
	1000 μ F 20% 35V ELECTROLYTIC (C2176)	63-10565-14	12 Ω 10W 10% WIREWOULD (R3206)
	2200 μ F 20% 35V ELECTROLYTIC	63-10565-32	1 Ω 1/2W 5% FILM
	(2 REQ C3236, C3256)	63-10565-52	(4 REQ R2109, R2110, R2111, R2112)
	22 μ F 20% 100V ELECTROLYTIC (C3254)	63-10657-03	2.2 Ω 1/2W 5% FILM (R2120)
	FUSES	63-10657-10	3.9 Ω 1/2W 5% FILM (2 REQ R3233, R3234)
	4AMP 250V FUSE (FX3201)	63-10832-56	22 Ω 1/2W 5% FILM (RX2101)
	(FUSE NOT FURNISHED)	63-10832-65	150 Ω 1/2W 5% FILM (2 REQ RX2121, RX2122)
	AS PART OF 9-227-02 MODULE)	63-10857-02	150 Ω 1/2W 5% FILM (2 REQ RX2121, RX2122)
	RESISTORS & CONTROLS	63-10857-08	1.2 MEGOHM 1/2W 20% CARBON (RX3246)
	820 Ω 1/2W 5% CARBON (R3205)	63-10857-17	THERMISTOR (R3245)
	4 Ω 10W 10% WIREWOULD (R3241)	63-10857-25	220 Ω 1W 5% FILM (R2129)
	VERTICAL CENTERING CONTROL (R2125)	63-10857-26	510 Ω 1W 5% FILM (2 REQ R2127, R2128)
	22 Ω 1/4W 5% FILM	63-10857-27	HORIZ CENTERING CONTROL (R3441)
	(3 REQ R2550, R2552, R2554)		VERTICAL HEIGHT CONTROL (R3418)
10235-48	100 Ω 1/4W 5% FILM (8 REQ R2510, R2521, R2532, R2538, R2539, R2540, R3222)	63-10857-27	ADJUSTMENT CONTROL (R3409)
10235-50	120 Ω 1/4W 5% FILM (R3202)	95-3439	GRN DRIVE & GRN CUT-OFF CONTROL (2 REQ R2517, R2516)
10235-52	150 Ω 1/4W 5% FILM (R2534)	95-3501-02	BLUE DRIVE & BLUE CUT-OFF CONTROL (2 REQ R2527, R2528)
10235-53	160 Ω 1/4W 5% FILM (2 REQ R2542, R2546)	95-3558-03	RED DRIVE & RED CUT-OFF CONTROL (2 REQ R2505, R2506)
10235-54	180 Ω 1/4W 5% FILM (5 REQ R2119, R2541, R2543, R2544, R2545)		TRANSFORMERS
10235-58	270 Ω 1/4W 5% FILM (3 REQ R2503, R2514, R2555)	103-142-01	LINE FILTER (TX3202)
10235-59	300 Ω 1/4W 5% FILM (2 REQ R3201, R3203)		FILTER CHOKE (LX3202)
10235-60	330 Ω 1/4W 5% FILM (2 REQ R2116, R3444)		POWER TRANSFORMER (T3201)
10235-63	430 Ω 1/4W 5% FILM (R3435)	103-254-01	DIODES
10235-66	560 Ω 1/4W 5% FILM (2 REQ R2107, R2108)	103-279-14	LOW VOLTAGE (9 REQ CR2104, CR2108, CR2501, CR2502, CR2503, CR3401, CR3404, CR3405, CR3406)
10235-67	620 Ω 1/4W 5% FILM (4 REQ R2511, R2548, R2549, R3409)	103-279-19	LOW VOLTAGE (5 REQ CR2105, CR2106, CR2107, CR3206, CR3211, CR3211)
10235-68	680 Ω 1/4W 5% FILM (R3262)	103-284	ZENER DIODE 6.8V 0.5W (CR3408)
10235-69	750 Ω 1/4W 5% FILM (2 REQ R2504, R2526)	103-309-01	ZENER DIODE 10V 0.5W (CR3409)
10235-71	910 Ω 1/4W 5% FILM (R2515)	103-315-06	LOW VOLTAGE (CR3235)
10235-72	1000 Ω 1/4W 5% FILM (9 REQ R2106, R2114, R3436, R3446, R3463, R3465, R3469, R3474, R3475)	103-326	ZENER DIODE 10V 1/2W (CR3205)
10235-73	1100 Ω 1/4W 5% FILM (R3424)	103-330	LOW VOLTAGE (4 REQ CR3231, CR3232, CR3233, CR3243)
10235-74	1300 Ω 1/4W 5% FILM (2 REQ R3214, R3421)	103-377-04	LOW VOLTAGE (2 REQ CR3208, CR3214)
10235-75	1300 Ω 1/4W 5% FILM (3 REQ R2507, R2518, R2529, R3453)		LOW VOLTAGE (4 REQ CR3202, CR3219, CR3223, CR3224)
			LOW VOLTAGE (CR3217)

Part Number	Description	9-227	9-227-01	9-227-02	9-227-03	9-227-04	Circuit Reference Designator	Part Number	Description	9-227	9-227-01	9-227-02	9-227-03	9-227-04	Circuit Reference Designator	Part Number	Description	9-227	9-227-01	9-227-02	9-227-03	9-227-04		
22-7775-10A	CAPACITOR, POLYESTER, .0068 MF, ±20%, 100V	X		X	X	X	C3430	22-7613-24D	CAPACITOR, DISC, .01 MF, ±1%, 50V	X	X	X	X	X	Q2505	121-1019-	TRANSISTOR, PNP	X	X	X	X	X		
22-7775-24A	CAPACITOR, POLYESTER, .01 MF, ±20%, 100V	X		X	X	X	C3431	22-7774-16A	CAPACITOR, POLYESTER, .022 MF, ±10%, 100V	X	X	X	X	X	Q2506	121-1895-	TRANSISTOR, NPN	X						
22-7774-16	CAPACITOR, POLYESTER, .022 MF, ±10%, 100V	X		X	X	X	C3432		PROVISION FOR 22-7759-04	*	X	*	*	*	Q3200	F-12737	TRANSISTOR & HEAT SINK ASSY	X	X	X	X	X		
22-7709-09C	CAPACITOR, ELECTROLYTIC, .100 MF, ±50-10%, 35V	X	X	X	X	X	C3434	22-7742-06	CAPACITOR, AXIAL, .47 UF, ±10%, 50V	X	X	Y	X	X	Q2506	121-1551	TRANSISTOR, NPN	X	X	X	X	X		
22-7613-24D	CAPACITOR, DISC, .01 MF, ±10%, 50V	X		X	X	X	C3436	22-7613-24C	CAPACITOR, DISC, .01 MF, ±10%, 100V	X	X	X	X	X	Q2507	121-1019	TRANSISTOR	X	X	X	X	X		
22-7774-14	CAPACITOR, POLYESTER, .015 MF, ±10%, 100V	X		X	X	X	C3435	22-7742-14U	CAPACITOR, AXIAL, .001 MF, ±10%, 50V	*					Q3201	121-1499-01	TRANSISTOR, NPN, REG. FEEDBACK	X	X	X	X	X		
22-7390-47	CAPACITOR, ELECTROLYTIC, .47 MF, ±20%, 5CV	X	X	X	X	X	C3436	22-7709-06A	CAPACITOR, AXIAL, .001 MF, ±10%, 50V	X					Q2502	121-1034-	TRANSISTOR, NPN	X	X	X	X	X		
22-7774-10C	CAPACITOR, ELECTROLYTIC, .33 MF, ±50-10%, 50V	X	X	X	X	X	C3437	22-7742-14U	CAPACITOR, POLYESTER, .0056 MF, ±10%, 100V	*					Q2508	121-1019	TRANSISTOR	X	X	X	X	X		
22-7774-14	CAPACITOR, POLYESTER, .015 MF, ±10%, 100V	X		X	X	X	C3438	22-7709-06A	CAPACITOR, POLYESTER, .0056 MF, ±10%, 100V	*					Q3203	121-1059-	TRANSISTOR, PNP	X	X	X	X	X		
22-7615-03D	CAPACITOR, DISC, .0033 MF, ±8U-10X, 50V	X		X	X	X	C3439	22-7739-29A	CAPACITOR, POLYESTER, .027 MF, ±10%, 100V	X	X	X	X	X	Q3401	121-1895-	TRANSISTOR, NPN	X	X	X	X	X		
22-7742-10	CAPACITOR, POLYESTER, .001 MF, ±10%, 50V	X	X	X	X	X	C3440	22-7710-01A	CAPACITOR, ELECTROLYTIC, .10 MF, ±50-10%, 50V	X	X	X	X	X	Q2509	121-1019	TRANSISTOR	X	X	X	X	X		
22-7774-17A	CAPACITOR, POLYESTER, .027 MF, ±10%, 100V	X	X	X	X	X	C3442	22-7710-01C	CAPACITOR, ELECTROLYTIC, .10 MF, ±50-10%, 50V	X					Q3402	121-936-	TRANSISTOR, PNP	X	X	X	X	X		
22-7861-13	CAPACITOR, ELECTROLYTIC, 1000 MF, ±20%, 35V	X	X	X	X	X	CR2104	103-142-01	D100E, LOW VOLTAGE	X	X	X	X	X	Q3403	121-1895-	TRANSISTOR, NPN	X	X	X	X	X		
22-7621-42C	CAPACITOR, DISC, .220 PF, ±5%, 50V	X		X	X	X	CR2105	103-254-01	D100E, LOW VOLTAGE	X	X	X	X	X	Q3404	121-895-	TRANSISTOR, NPN	X	X	X	X	X		
22-7621-42C	CAPACITOR, DISC, .220 PF, ±5%, 50V	X		X	X	X	CR2106	103-254-01	D100E, LOW VOLTAGE	X	X	X	X	X	Q3405	121-1895-	TRANSISTOR, NPN	X	X	X	X	X		
22-7621-42C	CAPACITOR, DISC, .220 PF, ±5%, 50V	X		X	X	X	CR2108	103-279-14A	D100E, LOW VOLTAGE	X	X	X	X	X	R2101	63-10565-32	RESISTOR, FILM, 22 OHM, 10W, FS 1/2W	X	X	X	X	X		
	PROVISION FOR .01 MF CAPACITOR	*	*				CR2107	103-254-01	D100E, LOW VOLTAGE	X	X	X	X	X	R2102	63-10243-56	RESISTOR, FILM, 220 OHM, ±5%, 1/2W	X	X	X	X	X		
22-7859-10	CAPACITOR, ELECTROLYTIC, .220 MF, ±20%, 16V	X	X	X	X	X	CR2504		PROVISION FOR DIODE 103-254-01	*	X	*	*	*										
22-7775-24A	CAPACITOR, POLYESTER, .01 MF, ±20%, 100V	X	X	X	X	X	CR2505	103-142-01	D100E, LOW VOLTAGE	X	X	X	X	X	R2103	63-10235-88	RESISTOR, FILM, 4.7 K OHM, ±5%, 1/2W	X	X	X	X	X		
22-7603	CAPACITOR, ELECTROLYTIC, 4.7 MF, ±100-10%, 315V	X		X	X	X	CR2505	103-142-01	D100E, LOW VOLTAGE	X	X	X	X	X	R2104	63-10649-11	RESISTOR, FILM, 3.0 OHM, ±5%, 1/2W	X	X	X	X	X		
22-3512	CAPACITOR, DISC, .01 MF, ±4U-20%, 1KV	X	X	X	X	X	CR3202	103-330A	D100E, LOW VOLTAGE	X	X	X	X	X	R2105	63-10243-11	RESISTOR, FILM, 3.0 OHM, ±5%, 1/2W	X	X	X	X	X		
22-7603-01B	CAPACITOR, ELECTROLYTIC, 10 MF, ±100-10%, 315V	X	X	X	X	X	CR3205	103-309-01	D100E, ZENER, 10V, 1W	X	X	X	X	X	R2106	63-10235-72	RESISTOR, FILM, 1.0 OHM, ±5%, 1/4W	X	X	X	X	X		
22-7742-10	CAPACITOR, AXIAL, .001 MF, ±10%, 50V	X	X	X	X	X	CR3206	103-254-01	D100E, LOW VOLTAGE	X					R2107	63-10235-66	RESISTOR, FILM, 560 OHM, ±5%, 1/4W	X	X	X	X	X		
22-7742-10	CAPACITOR, AXIAL, .001 MF, ±10%, 50V	X		X	X	X	CR3207	91-2053D	WIRE, SOLID SINGLE, +22 GA	X	X	X	X	X	R2108	63-10235-66	RESISTOR, FILM, 560 OHM, ±5%, 1/4W	X	X	X	X	X		
22-7395	CAPACITOR, DISC, 470 PF, ±5%, 500V	X	X	X	X	X	CR3208	103-326A	D100E, LOW VOLTAGE	X	X	X	X	X	R2109	63-10565-	RESISTOR, FILM, 1.0 OHM, ±5%, FS 1/2W	X	X	X	X	X		
22-7861-14	CAPACITOR, ELECTROLYTIC, 2200 MF, ±20%, 35V	X	X	X	X	X	CR3210	103-254-01	D100E, LOW VOLTAGE	X	X	X	X	X	R2110	63-10565-	RESISTOR, FILM, 1.0 OHM, ±5%, FS 1/2W	X	X	X	X	X		
2-5685	CAPACITOR, DISC, 100 PF, ±20, 500V	X	X	X	X	X	CR3205	103-254-01	D100E, LOW VOLTAGE	X					R2111	63-10565-	RESISTOR, FILM, 1.0 OHM, ±5%, FS 1/2W	X	X	X	X	X		
	PROVISION FOR 22-5688	*	*				CR3211	103-254-01	D100E, LOW VOLTAGE	X	X	X	X	X	R2112	63-10565-	RESISTOR, FILM, 1.0 OHM, ±5%, FS 1/2W	X	X	X	X	X		
22-7603-01A	CAPACITOR, ELECTROLYTIC, 10 MF, ±100-10%, 315V	X		X	X	X	CR3219	103-330A	D100E, LOW VOLTAGE	X	X	X	X	X	R2113	63-10243-60	RESISTOR, FILM, 330 OHM, ±5%, 1/2W	X	X	X	X	X		
22-7678	CAPACITOR, ELECTROLYTIC, 100 MF, ±100-10%, 180V	X	X	X	X	X	CR3214	103-326A	D100E, LOW VOLTAGE	X					R2114	63-10235-72	RESISTOR, FILM, 1K OHM, ±5%, 1/4W	X	X	X	X	X		
22-7695 12	CAPACITOR, ELECTROLYTIC, 680 MF, ±20%, 25V	X	X	X	X	X	CR3223	103-330A	D100E, LOW VOLTAGE	X	X	X	X	X	R2115	63-10235-88	RESISTOR, FILM, 4.7K OHM, ±5%, 1/4W	X	X	X	X	X		
2-7860-12	CAPACITOR, ELECTROLYTIC, 470 MF, ±20%, 25V			X	X	X	CR3224	103-330A	D100E, LOW VOLTAGE	X	X	X	X	X										
22-7431-06	CAPACITOR, DISC, .0047 MF, ±20%, UL	X	X	X	X	X	CR3232	103-315-06A	D100E,	X	X	X	X	X										
22-7451-06	CAPACITOR, DISC, .0047 MF, ±20%, UL	X	X	X	X	X	CR3233	103-315-06A	D100E,	X	X	X	X	X										
22-7811	CAPACITOR, DISC, .001 MF, ±10%, 1KV	X	X	X	X	X	CR3234	103-315-06A	D100E,	X	X	X	X	X										
22-7811	CAPACITOR, DISC, .001 MF, ±10%, 1KV	X	X	X	X	X	CR3235	103-284A	D100E, LOW VOLTAGE	X	X	X	X	X										
22-7900	CAPACITOR, ELECTROLYTIC, 22 MF, ±20%, 100V	X	X	X	X	X	CR3401	103-142-01	D100E, LOW VOLTAGE	X	X	X	X	X										
22-7404-06D	CAPACITOR, ELECTROLYTIC, 22 MF, ±20%, 10V	X		X	X	X	CR3404	103-142-01	D100E, LOW VOLTAGE	X	X	X	X	X										
22-7661-14	CAPACITOR, ELECTROLYTIC, 2200 MF, ±20%, 35V	X	X	X	X	X	CR3405	103-142-01	D100E, LOW VOLTAGE	X	X	X	X	X										
2-5685	CAPACITOR, .01 MF, ±20%, 125V			X	X	X	CR3409	103-279-19	D100E, ZENER, 10V, ±5%, 1/2W	X	X	X	X	X										
22-7395	CAPACITOR, DISC, 470 PF, ±5%, 500V	X	X	X	X	X	CR3406	103-142-01	D100E, LOW VOLTAGE	X	X	X	X	X										
2-TG13-24D	CAPACITOR, DISC, .01 MF, ±10%, 50V	X		X	X	X	CR3407	91-2053D	WIRE, SOLID, SINGLE, +22 GAUGE	X														
2-7406-01A	CAPACITOR, ELECTROLYTIC, 1.0 MF, ±20%, 35V	X	X	X	X	X	CR3408	103-279-14A	D100E, ZENER, 5.8V, 1/2W	X	X	X	X	X										
2-7773-18	CAPACITOR, POLYESTER, .033 MF, ±5%, 100V	X	X	X	X	X	IC3401	221-175	I ^T INTEGRATED CIRCUIT, HORIZONTAL & VERTICAL PROC	X														
2-7775-08B	CAPACITOR, POLYESTER, .0068 MF, ±20%, 100V	X	X	X	X	X	L2502	20-3887-01	COIL, PEAKING, 12 uH	X	X	X	X	X										
2-7773-17	CAPACITOR, POLYESTER, .027 MF, ±5%, 100V	X	X	X	X	X	L2501	20-3831A	COIL, PEAKING, 663 uH	X	X	X	X	X										
2-7710-01A	CAPACITOR, ELECTROLYTIC, 1.0 MF, ±50-10%, 50V	X	X	X	X	X	L2502	20-3887-01	COIL, PEAKING, 12 uH	X	X	X	X	X										
2-7562-32	CAPACITOR, POLYESTER, .47 MF, ±5%, 100V	X	X	X	X	X	L3401	20-3831A	COIL, PEAKING, 663 uH	X	X	X	X	X										
2-7774-16	CAPACITOR, POLYESTER, .022 MF, ±10%, 100V	X	X	X	X	X	L3402	20-3887-01	COIL, PEAKING, 39 uH	X	X	X	X	X										
2-7602-07	CAPACITOR, AXIAL, .01 MF, ±10%, 50V	X	X	X	X	X	L3402	20-3998	COIL, PEAKING, 39 uH	X	X	X	X	X										
2-7710-01C	CAPACITOR, AXIAL, 1.0 MF, ±50-10%, 50V	X	X	X	X	X	L3201	121-1975	TRANSISTOR, PNP	X	X	X	X	X										
2-7774-16	CAPACITOR, POLYESTER, .022 MF, ±10%, 100V	X	X	X	X	X	L3201	121-1975	TRANSISTOR, PNP	X	X	X	X	X										
2-7774-16	CAPACITOR, AXIAL, 1.0 MF, ±10%, 50V	X	X	X	X	X	L3201	1																

NOTICE

NO CIRCUMSTANCES SHOULD

ALTERED WITHOUT PER-
MISSION. ALL COMBINATIONS

RATION. ALL COMPONENTS IDENTICAL TO THOSE IN

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REDUNDANT CIRCUITRY

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Critical areas are shaded
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**DESIGNATOR, DESIGNATES
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X DIFFER FROM THE AC-

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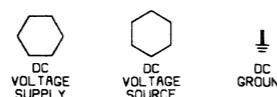
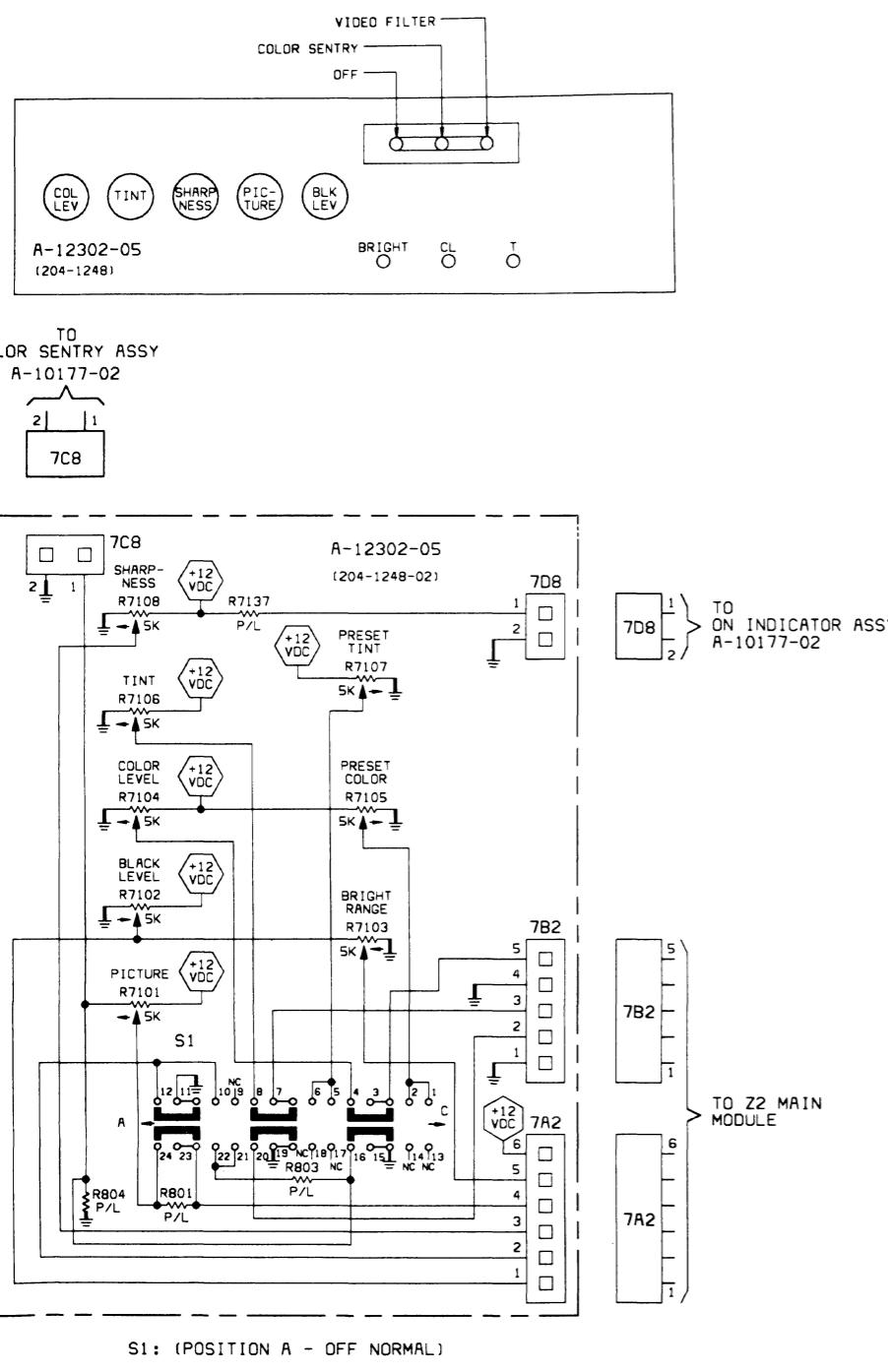
CHANGES INTO THE SETS IS
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SCHEMATIC AND PARTS LIST.

COMPONENTS. THESE SHOULD
AL TO THOSE IN THE

(A), 9-227-01 THRU 9-227-04 RGB MAIN MODULE

CIRCUIT REFERENCE DESIGNATOR	PART NUMBER	DESCRIPTION	9-227 -01	9-227 -02	9-227 -03	9-227 -04	CIRCUIT REFERENCE DESIGNATOR	PART NUMBER	DESCRIPTION	9-227 -01	9-227 -02	9-227 -03	9-227 -04	CIRCUIT REFERENCE DESIGNATOR	PART NUMBER	DESCRIPTION	9-227 -01	9-227 -02	9-227 -03	9-227 -04
R2116	63-10235-60	RESISTOR, FILM, 350 OHM, ±5%, 1/4W	X	X	X	X	R3214	63-10235-74	RESISTOR, FILM, 1.2K OHM, ±5%, 1/4W	X	X	X	X	R3463	63-10235-89	RESISTOR, FILM, 5.1K OHM, ±5%, 1/4W	X			
R2117	63-10235-80	RESISTOR, FILM, 2.2K OHM, ±5%, 1/4W	X	X	X	X	R3215	63-10243-48	RESISTOR, FILM, 56K OHM, ±5%, 1/2W	X				R3465	63-10235-72	RESISTOR, FILM, 1K OHM, ±5%, 1/4W	X	X	X	X
R2118	63-10235-88	RESISTOR, FILM, 4.7K OHM, ±5%, 1/4W	X	X	X	X	R3216	63-10243-25	RESISTOR, FILM, 8.8K OHM, ±5%, 1/2W	X	X	X	X	R3468	63-10235-86	RESISTOR, FILM, 3.9K OHM, ±5%, 1/4W	X	X	X	X
R2119	63-10235-94	RESISTOR, FILM, 160 OHM, ±5%, 1/4W	X	X	X	X	R3217	63-10243-31	RESISTOR, FILM, 36K OHM, ±5%, 1/2W	X	X	X	X	R3467	63-10235-94	RESISTOR, FILM, 8.2K OHM, ±5%, 1/4W	X	X	X	X
R2120	63-10832-02	RESISTOR, CARBON, 510 OHM, ±5%, 1W	X	X	X	X	R3218	63-10235-20	RESISTOR, FILM, 2.2K OHM, ±5%, 1/4W	X	X	X	X	R3468	63-10235-10	RESISTOR, FILM, 3.9K OHM, ±5%, 1/4W	X	X	X	X
R2121	63-10832-04	RESISTOR, FILM, 440 OHM, ±5%, 1W	X	X	X	X	R3222	63-10235-40	RESISTOR, FILM, 47 OHM, ±5%, 1/4W	X	X	X	X	R3469	63-10235-72	RESISTOR, FILM, 1K OHM, ±5%, 1/4W	X	X	X	X
R2122	63-10832-56	RESISTOR, CARBON, 220 OHM, ±5%, 1W	X	X	X	X	R3223	63-10555-14	RESISTOR, FILM, 3.9 OHM, ±5%, 1/2W	X	X	X	X	R3470	63-10235-72	RESISTOR, FILM, 1K OHM, ±5%, 1/4W	X	X	X	X
R2123	63-10235-02	CONTROL, ROTARY, SINGLE, 55U OHM, 120%, GRA	X	X	*	*	R3224	63-10235-54	RESISTOR, FILM, 180 OHM, ±5%, 1/4W	X	X	X	X	R3471	63-10235-93	RESISTOR, FILM, 1.3M OHM, ±5%, 1/4W	X	X	X	X
R2124	63-10243-63	RESISTOR, FILM, 430 OHM, ±5%, 1/2W	X	X	*	*	R3225	63-10565-14	RESISTOR, FILM, 3.9 OHM, ±5%, 1/2W	X	X	X	X	R3474	63-10235-72	RESISTOR, FILM, 2.5K OHM, ±5%, 1/4W	X	X	X	X
R2125	63-10243-53	RESISTOR, FILM, 180 OHM, ±5%, 1/2W	X				R3226	63-10243-20	RESISTOR, FILM, 100 OHM, ±5%, 1/2W	X	X	X	X	R3472	63-10235-86	RESISTOR, FILM, 3.9K OHM, ±5%, 1/4W	X	X	X	X
R2127	63-10243-66	RESISTOR, FILM, 56K OHM, ±5%, 1/4W	X	X	*	*	R3227	63-10235-54	RESISTOR, FILM, 180 OHM, ±5%, 1/4W	X	X	X	X	R3475	63-10235-72	RESISTOR, FILM, 1K, ±5%, 1/4W	X	X	X	X
R2128	63-10243-65	RESISTOR, CARBON, 510 OHM, ±5%, 1W	X	X	*	*	R3228	63-10243-66	RESISTOR, FILM, 4.0 OHM, 10W	X	X	X	X	R3476	63-10235-72	RESISTOR, FILM, 1K OHM, ±5%, 1/4W	X	X	X	X
R2129	63-10236-28	RESISTOR, FILM, 22K OHM, ±5%, 1/4W	X				R3229	63-10240-40	RESISTOR, TIN OXIDE, FILM, 47 OHM, ±5%, 3W	X	X	X	X	R3477	63-10235-72	RESISTOR, FILM, 1K OHM, ±5%, 1/4W	X	X	X	X
R2130	63-10236-32	RESISTOR, FILM, 2.2MEG OHM, ±5%, 1/4W	X	X	X	X	R3230	63-10235-54	RESISTOR, FILM, 180 OHM, ±5%, 1/4W	X	X	X	X	R3478	63-10235-72	RESISTOR, FILM, 1.3M OHM, ±5%, 1/4W	X	X	X	X
R2131	63-10235-90	RESISTOR, FILM, 5.6K OHM, ±5%, 1/4W	X	X	X	X	R3231	63-10710A	Thermistor	X	X	X	X	R3479	63-10235-93	RESISTOR, FILM, 1.3M OHM, ±5%, 1/4W	X	X	X	X
R2132	63-10235-56	RESISTOR, FILM, 180 OHM, ±5%, 1/4W	X				R3233	63-10857-03	RESISTOR, CARBON, 1.3MEG OHM, ±5%, 1/4W	X	X	X	X	R3480	63-10235-93	RESISTOR, FILM, 1.3M OHM, ±5%, 1/4W	X	X	X	X
R2133	63-10235-58	RESISTOR, FILM, 270 OHM, ±5%, 1/4W	X	X	X	X	R3234	63-10235-54	RESISTOR, FILM, 180 OHM, ±5%, 1/4W	X	X	X	X	R3481	63-10235-72	RESISTOR, START UP	X	X	X	X
R2134	63-10235-17	CONTROL, ROTARY, SINGLE, 5K OHM, RED	X				R3235	63-10235-54	RESISTOR, FILM, 100 OHM, ±5%, 1/4W	X	X	X	X	R3482	63-10235-72	TRANSFORMER, 16V, 1.0 OHM, 110VA	X	X	X	X
R2135	63-10857-17	CONTROL, ROTARY, SINGLE, 5K OHM, GREEN	X	X	X	X	R3236	63-10235-54	RESISTOR, FILM, 100 OHM, ±5%, 1/4W	X	X	X	X	R3483	63-10235-72	TRANSFORMER, LC	X	X	X	X
R2136	63-10235-50	CONTROL, ROTARY, SINGLE, 5K OHM, YELLOW	X	X	X	X	R3237	63-10235-54	RESISTOR, FILM, 100 OHM, ±5%, 1/4W	X	X	X	X	R3484	63-10235-72	TRANSFORMER, 16V, 1.0 OHM, 110VA	X	X	X	X
R2137	63-10857-27	CONTROL, ROTARY, SINGLE, 500OHM, GRN, DRIVE	X	X	X	X	R3238	63-10235-54	RESISTOR, FILM, 100 OHM, ±5%, 1/4W	X	X	X	X	R3485	63-10235-72	TRANSFORMER, 16V, 1.0 OHM, 110VA	X	X	X	X
R2138	63-10235-43	RESISTOR, FILM, 7.5K OHM, ±5%, 1/4W	X				R3239	63-10235-54	RESISTOR, FILM, 100 OHM, ±5%, 1/4W	X	X	X	X	R3486	63-10235-72	TRANSFORMER, 16V, 1.0 OHM, 110VA	X	X	X	X
R2139	63-10235-50	RESISTOR, FILM, 1.3K OHM, ±5%, 1/4W	X	X	X	X	R3240	63-10235-17	CONTROL, ROTARY, SINGLE, 100 OHM, GREEN	X	X	X	X	R3487	63-10235-72	TRANSFORMER, 16V, 1.0 OHM, 110VA	X	X	X	X
R2140	63-10235-52	RESISTOR, FILM, 2.2MEG OHM, ±5%, 1/4W	X	X	X	X	R3241	63-10235-32	RESISTOR, FILM, 22 OHM, ±5%, 1/4W	X	X	X	X	R3488	63-10235-72	TRANSFORMER, 16V, 1.0 OHM, 110VA	X	X	X	X
R2141	63-10235-56	RESISTOR, FILM, 2.2MEG OHM, ±5%, 1/4W	X	X	X	X	R3242	63-10235-31	RESISTOR, FILM, 300 OHM, ±5%, 1/4W	X	X	X	X	R3489	63-10235-72	TRANSFORMER, 16V, 1.0 OHM, 110VA	X	X	X	X
R2142	63-10235-71	RESISTOR, FILM, 500OHM, ±5%, 1/4W	X				R3243	63-10235-18	RESISTOR, FILM, 82K OHM, ±5%, 1/4W	X	X	X	X	R3490	63-10235-72	TRANSFORMER, 16V, 1.0 OHM, 110VA	X	X	X	X
R2143	63-10857-32	CONTROL, ROTARY, SINGLE, 5K OHM, GREEN	X	X	X	X	R3244	63-10235-17	RESISTOR, FILM, 300 OHM, ±5%, 1/4W	X	X	X	X	R3491	63-10235-72	TRANSFORMER, 16V, 1.0 OHM, 110VA	X	X	X	X
R2144	63-10235-30	CONTROL, ROTARY, SINGLE, 5K OHM, YELLOW	X				R3245	63-10236-04	RESISTOR, FILM, 22K OHM, ±5%, 1/4W	X	X	X	X	R3492	63-10235-72	TRANSFORMER, 16V, 1.0 OHM, 110VA	X	X	X	X
R2145	63-10235-76	RESISTOR, FILM, 1.5K OHM, ±5%, 1/4W	X	X	X	X	R3246	63-10235-32	RESISTOR, FILM, 22 OHM, ±5%, 1/4W	X	X	X	X	R3493	63-10235-72	TRANSFORMER, 16V, 1.0 OHM, 110VA	X	X	X	X
R2146	63-10235-53	RESISTOR, FILM, 7.5K OHM, ±5%, 1/4W	X				R3247	63-10235-32	RESISTOR, FILM, 1.5K OHM, ±5%, 1/4W	X	X	X	X	R3494	63-10235-72	TRANSFORMER, 16V, 1.0 OHM, 110VA	X	X	X	X
R2147	63-10235-73	RESISTOR, FILM, 1.1K OHM, ±5%, 1/4W	X	X	X	X	R3248	63-10235-36	RESISTOR, FILM, 1.8K OHM, ±5%, 1/4W	X	X	X	X	R3495	63-10235-72	TRANSFORMER, 16V, 1.0 OHM, 110VA	X	X	X	X
R2148	63-10235-55	RESISTOR, FILM, 1.2K OHM, ±5%, 1/4W	X				R3249	63-10235-36	RESISTOR, FILM, 1.8K OHM, ±5%, 1/4W	X	X	X	X	R3496	63-10235-72	TRANSFORMER, 16V, 1.0 OHM, 110VA	X	X	X	X
R2149	63-10235-80	RESISTOR, FILM, 2.2K OHM, ±5%, 1/4W	X	X	X	X	R3250	63-10235-32	RESISTOR, FILM, 22 OHM, ±5%, 1/4W	X	X	X	X</							



NOTES: (USED WITH CIRCUIT REFERENCE DESIGNATORS)

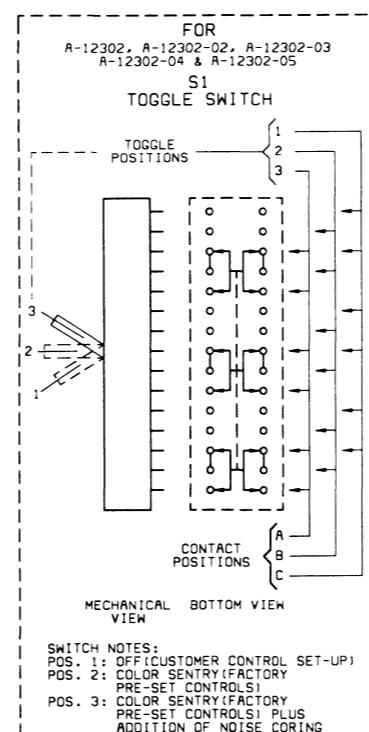
A. **P/L** = SEE PARTS LIST FOR APPLICABLE USAGE.

B. **— — —** = JUMPER WIRE USED INSTEAD.

C. **— • —** = PROVISION ON PRINTED CIRCUIT BOARD.

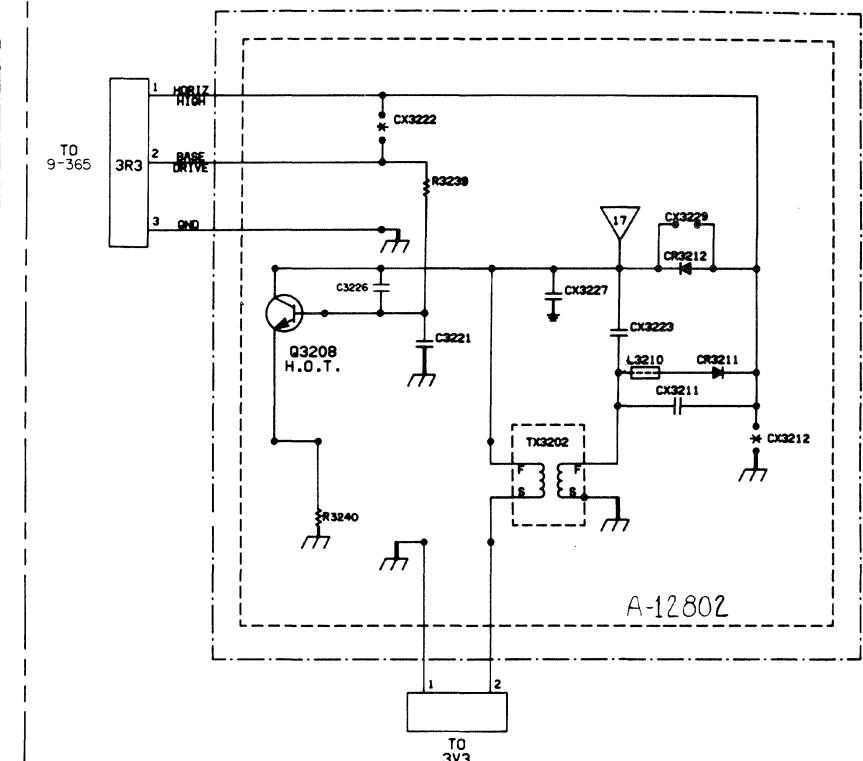
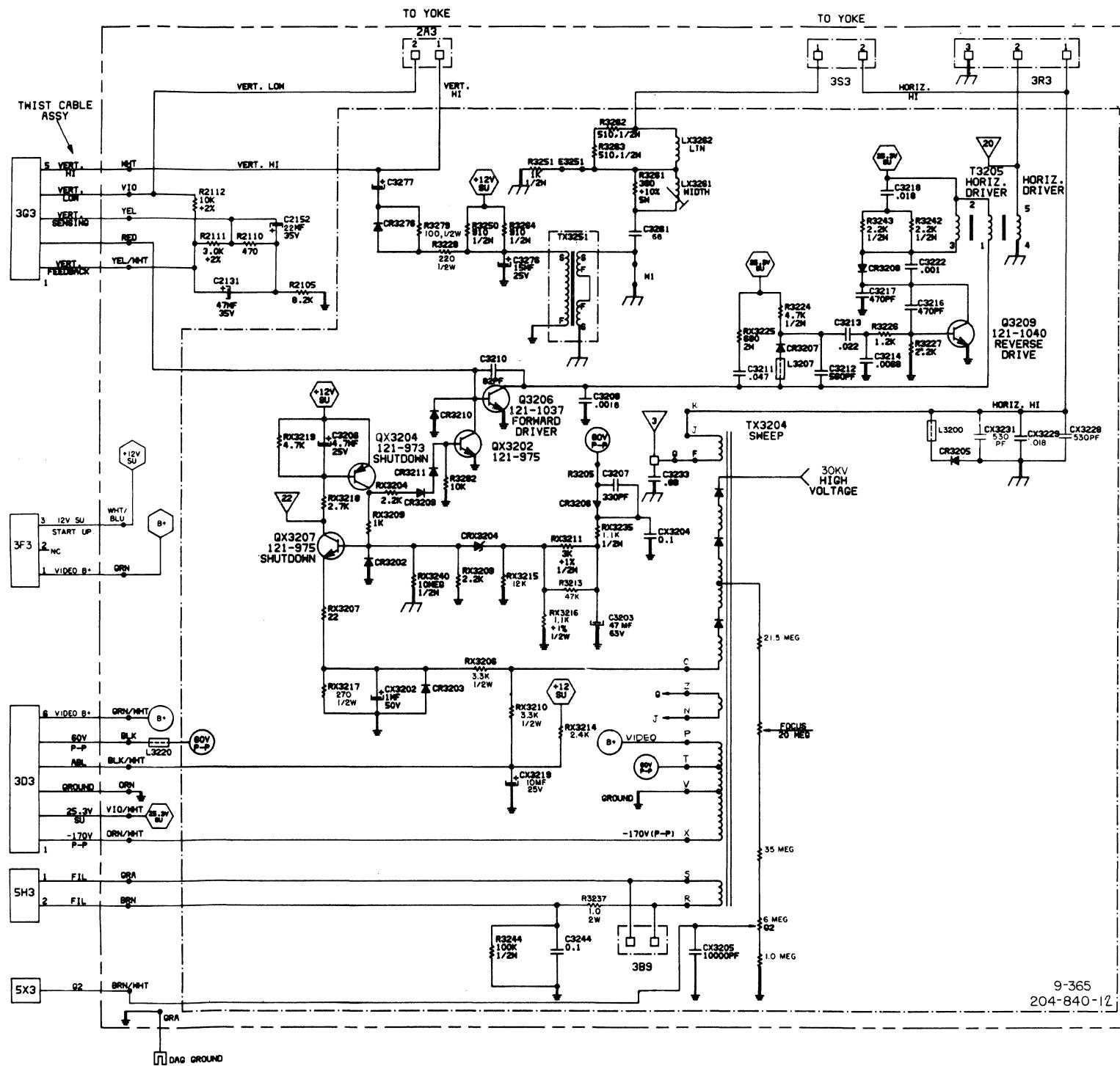
NOTES:

- ALL RESISTORS ARE 1/4 WATT, FILM, ±5% TOLERANCE UNLESS OTHERWISE SPECIFIED.
- ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.



CIRCUIT REFERENCE DESIGNATOR	PART NUMBER	SYMBOL NAME	DESCRIPTION	R-12302	R-12302-01	R-12302-02	R-12302-03	R-12302-04	R-12302-05		
R801	63-10235-73	RA12	RES.; FILM; 1.1K OHM SPCT 1/4W			X	X	X			
R801	63-10235-78	RA12	RES.; FILM; 1.8K OHM SPCT 1/4W			X					
R803	63-10235-77	RA12	RES.; FILM; 1.6K OHM SPCT 1/4W			X	X	X			
R803	63-10235-82	RA12	RES.; FILM; 2.7K OHM SPCT 1/4W			X					
R804	63-10235-86	RA12	RES.; FILM; 3.9K OHM SPCT 1/4W			X	X	X			
R804	63-10235-87	RA12	RES.; FILM; 4.3K OHM SPCT 1/4W			X					
R7101	63-10763		CONTROL; 5K OHM PICTURE	X	X	X	X	X			
R7102	63-10762	POT12	CONTROL; 5K OHM BLACK LEVEL	X	X	X	X	X			
R7103	63-10857-11	POT	CONTROL; 5K OHM BRIGHTNESS RANGE	X	X	X	X	X			
R7104	63-10764		CONTROL; 5K OHM COLOR LEVEL	X	X	X	X	X			
R7105	63-10857-11	POT	CONTROL; 5K OHM PRESET COLOR	X	X	X	X	X			
R7106	63-10764		CONTROL; 5K OHM TINT	X	X	X	X	X			
R7107	63-10857-11	POT	CONTROL; 5K OHM PRESET TINT	X	X	X	X	X			
R7108	63-10763		CONTROL; 5K OHM SHARPNESS	X	X	X	X	X			
R7109	63-10752-02		CONTROL; 5K OHM TONE	X	X	X					
R7137	63-10235-72	RA12	RES.; FILM; 1K OHM SPCT 1/4W						X		
S8001	85-1594		SWITCH; LEVER ACTION; 3 POSITION	X	X	X	X	X			
S8002	85-1585-03	S26	SWITCH; LEVER ACTION	X							
S8003	85-1585-03	S26	SWITCH; LEVER ACTION	X							
64-1211-01			EYELET; TUBULAR (QUANTITY 26)	X	X	X	X				
64-1211-01			EYELET; TUBULAR (QUANTITY 16)	X							
64-1211-01			EYELET; TUBULAR (QUANTITY 22)						X		
86-798-03			TERMINAL; PIN, 0.045 SQUARE (QUANTITY 18)	X							
86-798-03			TERMINAL; PIN, 0.045 SQUARE (QUANTITY 13)		X	X					
86-798-03			TERMINAL; PIN, 0.045 SQUARE (QUANTITY 11)			X	X				
86-798-03			TERMINAL; PIN, 0.045 SQUARE (QUANTITY 15)		X		X				
284-1248			PRINTED CIRCUIT; SECONDARY CONTROL	X	X	X	X				
284-1248-01			PRINTED CIRCUIT; SECONDARY CONTROL	X							
284-1248-02			PRINTED CIRCUIT; SECONDARY CONTROL					X			
R	B	C	D	E	F	G	H	I	J	K	L

SCHEMATIC AND LEGEND, A-12302-05 SECONDARY CONTROL ASSY.



VIDEO PULSE	MODULE
B+	9-365

NOTES:

- ALL RESISTORS ARE 1/4 WATT, FILM ±5% TOLERANCE UNLESS OTHERWISE SPECIFIED.
- ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.

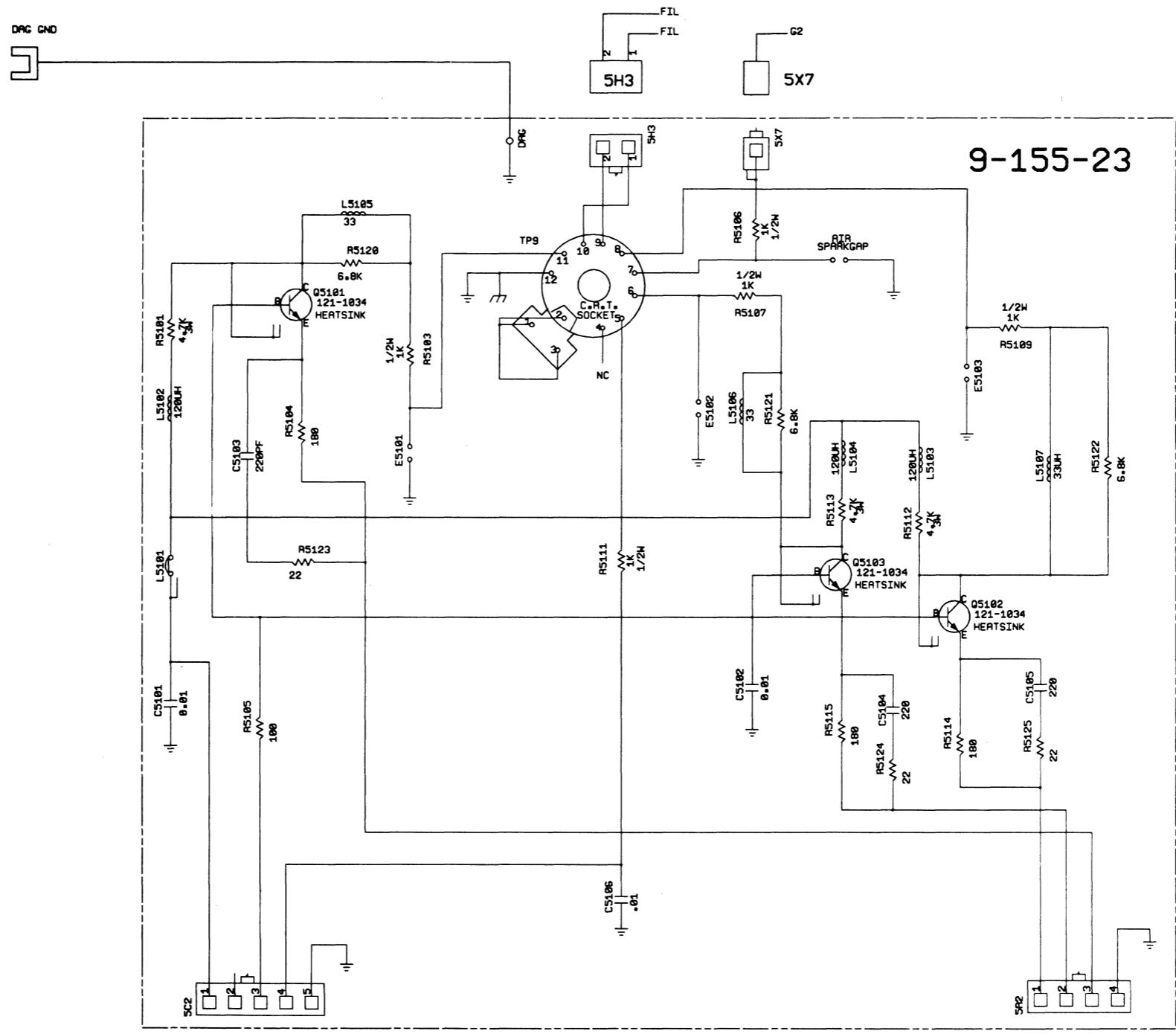
NOTES: (USED WITH CIRCUIT REFERENCE DESIGNATORS)

- P/L = SEE PARTS LIST FOR APPLICABLE USAGE.
- = JUMPER WIRE USED INSTEAD.
- = PROVISION ON PRINTED CIRCUIT BOARD.

B CRITICAL SAFETY COMPONENTS:
THE LETTER "X" IN THE ELECTRICAL SCHEMATIC AND PARTS LIST DESIGNATES SPECIAL CRITICAL SAFETY COMPONENTS. THESE SHOULD BE REPLACED ONLY WITH TYPES IDENTICAL TO THOSE IN THE ZENITH PARTS LIST AND SCHEMATIC.

SCHEMATIC, 9-365 SWEEP BOARD-RGB COLOR MONITOR

CIRCUIT REFERENCE DESIGNATOR	PART NUMBER	SYMBOL NAME	DESCRIPTION	9-365	CIRCUIT REFERENCE DESIGNATOR	PART NUMBER	SYMBOL NAME	DESCRIPTION	9-365	CIRCUIT REFERENCE DESIGNATOR	PART NUMBER	SYMBOL NAME	DESCRIPTION	9-365	
.	103-215-01A	DIODE	LOW VOLTAGE GENERAL; SILICON	X	.	Q3209	121-1040	TRANSISTOR	NPN, SILICON	X	.	64-519-01	EYELET; ROLLED FLANGE	X	
.	149-454	FC1	CORE, FERRITE; BEAD	X	.	R2105	63-10235-94	RA12	RES.; FILM; 6.2K OHM SPCT 1/4W	X	.	64-519-03	EYELET; ROLLED FLANGE	X	
.	149-509-01	FC1	CORE, FERRITE; BEAD	X	.	R2110	63-10235-64	RA12	RES.; FILM; 470 OHM SPCT 1/4W	X	.	64-1032	CRIPPLET; 0.070 DIA X .065 LG; BRASS-SOLDER COATED	X	
.	.	.	.	.	.	R2111	63-10233-83	RA12	RES.; FILM; 3K OHM 2PCT 1/4W	X	.	78-3021-01	CONNECTOR; 1 CIRCUIT	X	
.	C2131	22-7861-06A	CAP.; 47 MFD 20PCT 35V; ELECTRO	X	.	RX3204	63-10235-80	RA12	RES.; FILM; 2.2K OHM SPCT 1/4W	X	.	78-3024-01	CONNECTOR; MULTI 1 CIRCUIT STRIP	X	
.	C2152	22-7861-06A	CAP.; 22 MFD 20PCT 35V; ELECTRO	X	.	RX3206	63-7005	RES.	CARBON; 3.3K OHM SPCT 0.5W	X	.	78-3039-02	CONNECTOR; 2 CIRCUIT	X	
.	CX3202	22-7862-01A	CE10	CAP.; 1 MFD 20PCT 50V; ELECTRO	X	.	RX3207	63-10235-32	RA12	RES.; FILM; 22 OHM SPCT 1/4W	X	.	78-3039-03	CONNECTOR; 3 CIRCUIT	X
.	C3203	22-7863-08	CE40	CAP.; 47 MFD 20PCT 63V; ELECTRO	X	.	RX3208	63-10235-80	RA12	RES.; FILM; 2.2K OHM SPCT 1/4W	X	.	78-3039-05	CONNECTOR; 5 CIRCUIT	X
.	CX3204	22-7773-24	CW3	CAP.; 0.1 MFD SPCT 100V; POLY	X	.	RX3209	63-10235-72	RA12	RES.; FILM; 1K OHM SPCT 1/4W	X	.	78-3042-02	CONNECTOR; MULTI 2 CIRCUIT CHAIN	X
.	CX3205	22-7523-01	CD752	CAP.; 0.01 MFD +10 PCT -10 PCT 2000V;	X	.	R3210	63-7005	RES.	CARBON; 3.3K OHM SPCT 0.5W	X	.	78-3042-03	CONNECTOR; MULTI 3 CIRCUIT CHAIN	X
.	.	.	DISC	.	.	R3211	63-10010-07	RES.	FILM; 3K OHM 1PCT 1/2W	X	.	78-3042-05	CONNECTOR; MULTI 5 CIRCUIT CHAIN	X	
.	C3206	22-7860-04A	CE10	CAP.; 4.7 MFD 20PCT 25V; ELECTRO	X	.	R3213	63-10236-12	RA12	RES.; FILM; 4.7K OHM SPCT 1/4W	X	.	78-3042-06	CONNECTOR; MULTI 6 CIRCUIT CHAIN	X
.	C3207	22-5665	CD270	CAP.; 330 PFD +10 PCT -10 PCT 1000V;	X	.	RX3214	63-10233-81	RA12	RES.; FILM; 2.4K OHM 2PCT 1/4W	X	.	79-317-04	SLEEVING; HEAT SHRINKABLE, 0.020 INCH	X
.	.	.	DISC	.	.	RX3215	63-10235-98	RA12	RES.; FILM; 12K OHM SPCT 1/4W	X	.	79-317-05	SLEEVING; HEAT SHRINKABLE, 0.020 INCH	X	
.	C3209	22-7242	CD7430	CAP.; 0.0015 MFD +10 PCT -10 PCT 500V;	X	.	R3216	63-10010	RES.	FILM; 1.1K OHM 1PCT 1/2W	X	.	86-733-02	TERMINAL; LOCKING; WIRE MOUNTED	X
.	.	.	DISC	.	.	RX3217	63-7760	RES.	CARBON; 270 OHM SPCT 1/2W	X	.	86-799	STAKE1 TERMINAL; PIN, 0.045 INCH SQUARE	X	
.	C3210	22-5495	CD599	CAP.; 62 PFD 20PCT 500V; DISC	X	.	RX3218	63-10235-82	RA12	RES.; FILM; 2.7K OHM SPCT 1/4W	X	.	86-848	TERMINAL; PC WIRE GRIP	X
.	C3211	22-7777-20B	CAP.; 0.047 MFD 10PCT 200V; POLY	X	.	RX3219	63-10235-88	RA12	RES.; FILM; 4.7K OHM SPCT 1/4W	X	.	91-2053	JUMP WIRE; SOLID, SINGLE CONDUCTOR; 22 GA	X	
.	C3212	22-7234	CAP.; 560 PFD 10PCT 500V; DISC	X	.	R3224	63-10243-88	RES.	FILM; 4.7K OHM SPCT 1/2W	X	.	TINNED			
.	C3213	22-7775-16	CW1	CAP.; 0.022 MFD 20PCT 100V; POLY	X	.	R3225	63-10036-68	RES.	FILM; 600 OHM SPCT 2W	X	.	101-1112	PRODUCTION; COUNT LABEL	X
.	C3214	22-7775-18	CW1	CAP.; 0.0068 MFD 20PCT 100V; POLY	X	.	R3226	63-10235-74	RA12	RES.; FILM; 1.2K OHM SPCT 1/4W	X	.	101-6239-11	LABEL; DATE CODE	X
.	C3216	22-5684	CD568	CAP.; 470 PFD +20 PCT -20 PCT 500V;	X	.	R3227	63-10235-80	RA12	RES.; FILM; 2.2K OHM SPCT 1/4W	X	.	114-1379-01	SCREW, THD FORM; 8-10X0.5 HI RISER	X
.	.	.	DISC	.	.	R3228	91-2053	JUMP	WIRE; SOLID, SINGLE CONDUCTOR; 22 GA	X	.	STAT BRONZE 1/4AF; HEX WASHER HEAD			
.	C3217	22-5684	CD568	CAP.; 470 PFD +20 PCT -20 PCT 500V;	X	.	.	.	.	.	.	140-336-02	TAPE; POLY FILM; 1/4 INCH WIDE	X	
.	.	.	DISC	.	.	.	.	.	.	.	177-67	HOT STAMP FOIL; NON-METALLIC, BLACK;	X		
.	C3218	22-7774-15	CW1	CAP.; 0.018 MFD 10PCT 100V; POLY	X	.	RX3235	63-10010	RES.	FILM; 1.1K OHM 1PCT 1/2W	X	.	3.628 IN WIDE		
.	CX3219	22-7860-05A	CE10	CAP.; 10 MFD 20PCT 25V; ELECTRO	X	.	R3237	63-10422-24	RES.	WN; 1 OHM 10PCT 2W	X	.	204-597-39	PC BOARD; BULK	X
.	C3222	22-7742-18	CA010	CAP.; 1000 PFD 10PCT 50V; TUBULAR	X	.	R3240	63-10657-84	RES.	CARBON; 10M OHM 20PCT 1/2W	X	.	204-848-12	PRINTED CIRCUIT; Z SWEEP	X
.	CX3220	22-6466	CD752	CAP.; 530 PFD +10PCT -10PCT 3000V; DISC	X	.	R3242	63-10243-88	RA25	RES.; FILM; 2.2K OHM SPCT 1/2W	X	.	.	.	.
.	CX3221	22-7672-05	CA754	CAP.; 0.018 MFD SPCT 1600V;	X	.	R3243	63-10243-88	RA25	RES.; FILM; 2.2K OHM SPCT 1/2W	X	.	.	.	.
.	.	.	POLYPROPYLENE	.	.	R3244	63-7068	RES.	CARBON; 100K OHM SPCT 1/2W	X	.	.	.	.
.	CX3231	22-6466	CD752	CAP.; 530 PFD +10PCT -10PCT 3000V; DISC	X	.	R3250	63-10243-71	RES.	FILM; 10 OHM SPCT 1/2W	X	.	.	.	.
.	C3233	22-7120	CF4	CAP.; 0.68 MFD 10PCT 200V; POLY	X	.	R3251	63-7785	RA25	RES.; CARBON; 1K OHM 10PCT 1/2W	X	.	.	.	.
.	C3244	22-7566-24	CP756	CAP.; 0.1 MFD 10PCT 250V; POLY	X	.	R3261	63-10444-86	RES.	WN; 390 OHM 10PCT 5W	X	.	.	.	.
.	CX3261	22-7683-03	CAP.	POLYPROPYLENE	X	.	R3262	63-10825-65	RES.	FILM; 510 OHM SPCT 1/2W	X	.	.	.	.
.	C3276	22-7860-26A	CAP.	15 MFD 20PCT 25V; ELECTRO	X	.	R3263	63-10825-65	RES.	FILM; 510 OHM SPCT 1/2W	X	.	.	.	.
.	C3277	22-7862-09	CE40	CAP.; 100 MFD 20PCT 50V; ELECTRO	X	.	R3264	63-10243-71	RES.	FILM; 100 OHM SPCT 1/2W	X	.	.	.	.
.	.	.	.	.	.	R3279	63-7743	RES.	CARBON; 100 OHM 10PCT 1/2W	X	.	.	.	.
.	.	.	.	.	.	R3282	63-10235-96	RA12	RES.; FILM; 10K OHM SPCT 1/4W	X	.	.	.	.
.	
.	CR3202	103-142-01	DA33	DIODE; LOW VOLTAGE GENERAL; SILICON	X	.	.	.	.	.	.	.	.	.	.
.	CR3203	103-330A	DIODE	LOW VOLTAGE GENERAL; SILICON	X	.	.	.	.	.	.	.	.	.	.
.	CR3204	103-308A	DA12	DIODE; ZENER; 12V 0.5W	X	.	TX3204	95-3756		SWEET XFMER; COLOR FINAL	X	.	.	.	.
.	CR3205	103-305A	DIODE	HIGH VOLTAGE GENERAL; SILICON	X	.	TX3205	95-3344		TRANSFORMER; HORIZONTAL DRIVER	X	.	.	.	.
.	CR3206	103-204A	DR56	DIODE; LOW VOLTAGE GENERAL; SILICON	X	.	TX3251	95-3389-04		TRANSFORMER; SATURABLE REACTOR	X	.	.	.	.
.	CR3207	F-16147	DIODE, FERRITE; BEAD SLEEVING ASSEMBLY	X	.	.	.	.	.	.	.	.	.	.	.
.	CR3208	103-215-01A	DA33	DIODE; LOW VOLTAGE GENERAL; SILICON	X	.	.	.	.	.	.	.	.	.	.
.	CR3210	103-142-01	DA33	DIODE; LOW VOLTAGE GENERAL; SILICON	X	.	.	.	.	.	.	.	.	.	.
.	CR3211	103-142-01	DA33	DIODE; LOW VOLTAGE GENERAL; SILICON	X	.	W0002	91-2053	JUMP	WIRE; SOLID, SINGLE CONDUCTOR; 22 GA	X	.	.	.	.
.	CR3276	103-254-01	DA22	DIODE; LOW VOLTAGE GENERAL; SILICON	X	.	.	.	.	.	.	.	.	.	.
.	
.	E3251	52-2240-08	SG2A	SPARK CAP	X	.	A-9911-58		CABLE HSNC ASSY; 0.156P 1 UP; SH3	X	.	.	.	.	.
.	.	.	.	.	.	.	A-9939-18		CABLE HSNC ASSY; 0.312P 1 UP; SX3	X	.	.	.	.	.
.	.	.	.	.	.	.	A-1000								



NOTES: (VALUE TAGS WITH SPECIAL MEANINGS)

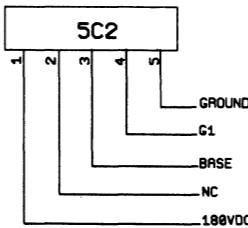
A. P/L = SEE PARTS LIST FOR APPLICABLE USAGE.

B. JUMPER = JUMPER WIRE USED INSTEAD OF NORMAL PART

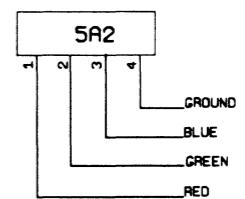
**C. PROV = PROVISION FOR A PHYSICAL PART
IN THE LAYOUT ONLY.**

NOTES:

1. RESISTORS ARE 1/4 WATT, 5 PERCENT TOLERANCE UNLESS OTHERWISE SPECIFIED.
2. CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.



— SIGNAL GND
 DAI GND



SCHEMATIC, 9-155-23 MED. RESOLUTION VIDEO OUTPUT