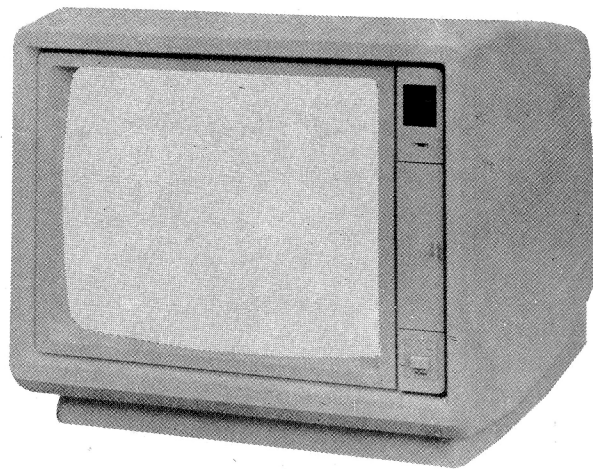


TANDY[®] **Service Manual**

25-4035

COLOR MONITOR EGM-1

Catalog Number: 25-4035



CUSTOM MANUFACTURED FOR RADIO SHACK, A DIVISION OF TANDY CORPORATION

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SPECIFICATIONS

DESCRIPTION	NOMINAL	LIMIT
1. Power input	AC 120V, 60Hz	
2. Power consumption	90W	+10%, -30%
3. CRT	14" 90° deflection. Non-glare. 0.31 dot pitch	
4. Input signal		
a) Video	Mode 1 ; R, G, B, I separate TTL - Level. positive. Mode 2 ; R, G, B, r, g, b separate TTL - Level. positive	2.4-5.0Vp-p
b) Synchronous	Mode 1 ; H, V - Sync TTL - Level. positive. Mode 2 ; H - Sync TTL - Level. positive. V - Sync TTL - Level. negative.	
5. Resolution		
	Mode 1 ; 640 dots x 200 Lines (16 colors) Mode 2 ; 640 dots x 350 Lines (64 colors)	
6. Synchronous		
a) Horizontal	Mode 1 ; 15.75kHz (overscan) Mode 2 ; 21.8kHz (underscan)	±0.3kHz ±0.3kHz
b) Vertical	50 - 60 Hz	
7. Display size	9.84" x 6.69" (250mm x 170 mm)	+4/-2mm
8. Linearity		7% Max.
9. High voltage	22kV	±0.5kV

NOTE: Nominal specs represent the design specs; all units should be able to approximate these — some will exceed and some may drop slightly below these specs.

Limit specs represent the absolute worst condition which still might be considered acceptable; in no case should a unit perform to less than within any limit spec.

IMPORTANT SERVICE SAFETY PRECAUTIONS

Service work should be performed only by qualified service technicians who are thoroughly familiar with all of the following safety checks and servicing guidelines:

WARNING

1. For continued safety, do not attempt to modify the circuit.
2. Disconnect the AC power before servicing.
3. Semiconductor heat sinks are potential shock hazards when the chassis is operating.

SERVICING THE HIGH VOLTAGE SYSTEM AND PICTURE TUBE

When servicing the high voltage system, remove the static charge by connecting a 10k ohm resistor in series with an insulated wire (such as a test probe) between the chassis and the anode lead. (The AC line cord should be disconnected from the AC outlet.)

1. The picture tube in this display monitor employs integral implosion protection.
2. Replace with a tube of the same type and number for continued safety.
3. Do not lift the picture tube by the neck.
4. Handle the picture tube only when wearing shatter-proof goggles and after discharging the high-voltage anode completely.

X-RADIATION AND HIGH VOLTAGE LIMITS

1. Be sure all service personnel are aware of the procedures and instructions covering X-radiation. The only potential source of X-ray in a current solid-state display monitor is the picture tube. However, the picture tube does not emit measurable X-ray radiation if the high voltage is as specified in the "high-voltage check" instructions.
It is only when high voltage is excessive that X-radiation is capable of penetrating the shell of the picture tube, including the lead in glass material. The important precaution is to keep the high voltage below the maximum level specified.
2. It is essential that servicemen have available at all times an accurate high-voltage meter. The calibration of this meter should be checked periodically.
3. High voltage should always be kept at the rated value — no higher. Operation at higher voltages may cause a failure of the picture tube or high voltage circuitry and, also, under certain conditions, may produce radiation in excess of desirable levels.

4. When the high voltage regulator is operating properly there is no possibility of an X-radiation problem. Every time a color chassis is serviced, the brightness should be tested 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.
5. Do not use a picture tube other than that specified or make unrecommended circuit modifications to the high voltage circuitry.
6. When troubleshooting and taking test measurements on a display monitor with excessively high voltage, avoid being unnecessarily close to the display monitor. Do not operate the display monitor longer than is necessary to locate the cause of excessive voltage.

BEFORE RETURNING THE DISPLAY MONITOR

Fire and Shock Hazard

Before returning the display monitor to the user, perform the following safety checks:

1. Inspect all lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the display monitor.
2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner:
 - Plug the AC line cord directly into a 120-volt AC outlet. (Do not use an isolation transformer for this test.)
 - Using two clip leads, connect 1.5k ohm, 10 watt resistor paralleled by a 0.15 μ F capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to earth ground.
 - Use a SSVM or VOM with 1000 ohms per-volt or higher sensitivity to measure the AC voltage drop across the resistor. (See Figure 1.)

Connect the resistor connection to all exposed metal parts having a return path to the chassis (metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.

All checks must be repeated with the AC line cord plug connection reversed. (If necessary, a nonpolarized adapter plug must be used only for the purpose of completing these checks.)

Any reading of 0.3 volt RMS (this corresponds to 0.2 milliamp. AC) or more is excessive and indicates a potential shock hazard which must be corrected before returning the display monitor to the user.

SAFETY NOTICE

Many electrical and mechanical parts in display monitors have special safety-related characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc.

Replacement parts that have these special safety characteristics are identified in this manual; electrical components having such features are identified by a Δ and shaded in the Replacement Parts Lists and Schematic Diagram. For continued protection, replacement parts must be identical to those used in the original circuit. The use of a substitute replacement part that does not have the same safety characteristics as specified in this service manual, may create shock, fire, X-radiation or other hazards.

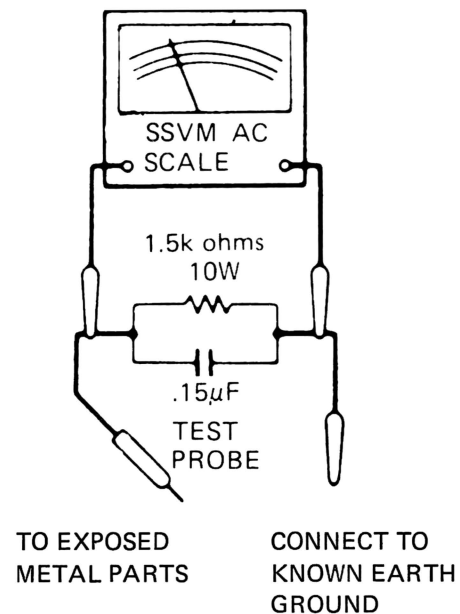


Figure 1. Leakage Current Test Circuit

THEORY OF OPERATION

GENERAL

The EGM-1 is a high-resolution color display using a 0.31 pitch CRT with etched faceplate. It uses six TTL-level color input signals and separate sync signals. It can operate in either 200 or 350-line mode.

The switching is automatic and based on the polarity of vertical sync.

DESCRIPTION

1. Power Supply

This is a constant-frequency quasi-bridge switched-mode power supply of flyback type. The output voltage regulation is achieved by means of variable duty cycle. The control circuit IC911 monitors the voltage at pin 13 of MM912 and regulates the duty cycle so that this voltage is kept constant. The output voltages can be varied by means of VR911.

Q915 and Q916 act as switches. D924 and D925 form the rest of the quasibridge circuit. R933, C930 and D921 form a DIAC oscillator which is used to start the power supply.

When the power-supply starts R932 and D923, turn off the DIAC oscillator.

Output Voltages:	Pin No.	V
	M1/1	12
	M1/2	GND
	M1/3	6.2
	M1/4	Heater GND
	M2/1	153
	M2/3	55
	M2/4	GND
	M2/5	20

IMPORTANT: When replacing the power supply, make sure that the green/yellow ground wire is properly attached to the main chassis frame. When replacing the fuse, make sure that the fuse is of the same type and rating as the original.

2. Main Board

2-1. Vertical Oscillator/Amplifier IC411 IC411 (TDA 2653A) Includes the Following Functions.

- o Vertical oscillator
- o Ramp generator
- o Linearity control
- o Output amplifier

There are two vertical height controls: RT1 and RT2. RT1 is for the 200 line mode and RT2 for the 350 line mode. The potentiometers are automatically selected by analog switch IC511.

2-2. Horizontal Combination IC311 (TDA2593) IC311 Includes the Following Functions.

- o Horizontal oscillator
- o Phase-locked loop for frequency and phase comparison.
- o Phase locked loop to compensate various delay times of the horizontal output transistor.
- o Driver stage.

The sync signal is input to pin 9 and the horizontal flyback pulse to pin 6. These two signals are compared and the circuit is locked to a correct frequency and phase. Analog switch IC312 uses the mode signal to switch the horizontal oscillator to 15.7KHz or 22 KHz mode.

2-3. Horizontal Output Stage Q362

Q362 is a horizontal output switch, which is closed during the scan period and opened during the flyback. It receives a drive signal from IC311 via Q361 and M361.

The flyback time is determined by the resonance of C366 and the deflection yoke.

The additional energy to compensate for the losses in the circuit is driven via L363.

C363 makes the necessary S-correction. Because of the losses in the deflection yoke, a linearity correction is required. This is achieved by L362, which is a saturating choke.

The saturation is controlled by means of adjustable permanent magnet rings.

2-4. Horizontal Width Control Stage Q511

The amount of energy fed to the horizontal output stage is controlled by Q511. It is simply a linear series regulator. D513 forms a reference voltage. This voltage and a rectified flyback voltage are compared in an error amplifier Q512, which controls Q511. In this way a very stable picture width is achieved. Pincushion correction is achieved by adding a parabolic waveform to the reference voltage. This

parabola is formed by integrating a vertical sawtooth in the first stage of IC512. The second stage of IC512 inverts the parabola. Analog switch IC511 takes care of the width correction between the two deflection frequencies.

2-5. High-Voltage Generator Q214

A voltage of 22kV for the CRT is generated by a flyback generator which is synchronized to the horizontal frequency in order to avoid jitter. High-voltage transformer M212 provides an output voltage of about 7kV, which is fed to a tripler. The focus voltage is also divided in the tripler from the anode voltage resulting in a good focus tracking.

Anode voltage is regulated against the variations in the beam current. IC211/Q213 form a series regulator with a feedback from the focus voltage divider. D214 is a reference diode. R225 and Q231 with its peripheral components limit the average beam current to 300μA max.

IC211 is also used for X-ray protection. In case of abnormally high voltage, the X-ray protection circuit periodically shuts down the high-voltage generator. D219 is used as a reference for this purpose.

2-6. CRT Socket Board.

Functions: G2 voltage alignment VR1

2-7. Video Amplifier

Video card receives six TTL-level color signals in the high-resolution mode and three color signals plus an intensity bit in the medium-resolution mode. These input bits plus mode bit address a multiplexer (IC102).

Six bits of the contents of each memory location are used to determine the color. The outputs of the multiplexer (IC102) are designated R0, B0, G0 and R1, B1, G1, R0, B0 and G0 are LSBs; R1, G1 and B1 are MSBs.

The brightness control in the front has an effect on both MSB and LSB, while contrast controls only LSB. The consequence of this is that contrast works as a HUE control.

The front contrast control can be made effective by pulling out the knob. Otherwise the HUE is in a normalized position, which is determined by RT4 in the rear panel. The background brightness can be slightly varied by RT3 in the rear panel.

Pin	16 Color(Mode 1)	64 Color(Mode 2)
1	Shield GND	Ground
2	Shield GND	R0
3	R1	R1
4	G1	G1
5	B1	B1
6	Intensity	G0
7	Unused	B0
8	Horiz Sync	Horiz Sync
9	Vert Sync (+)	Vert Sync (—)

Signal cable pin connections.

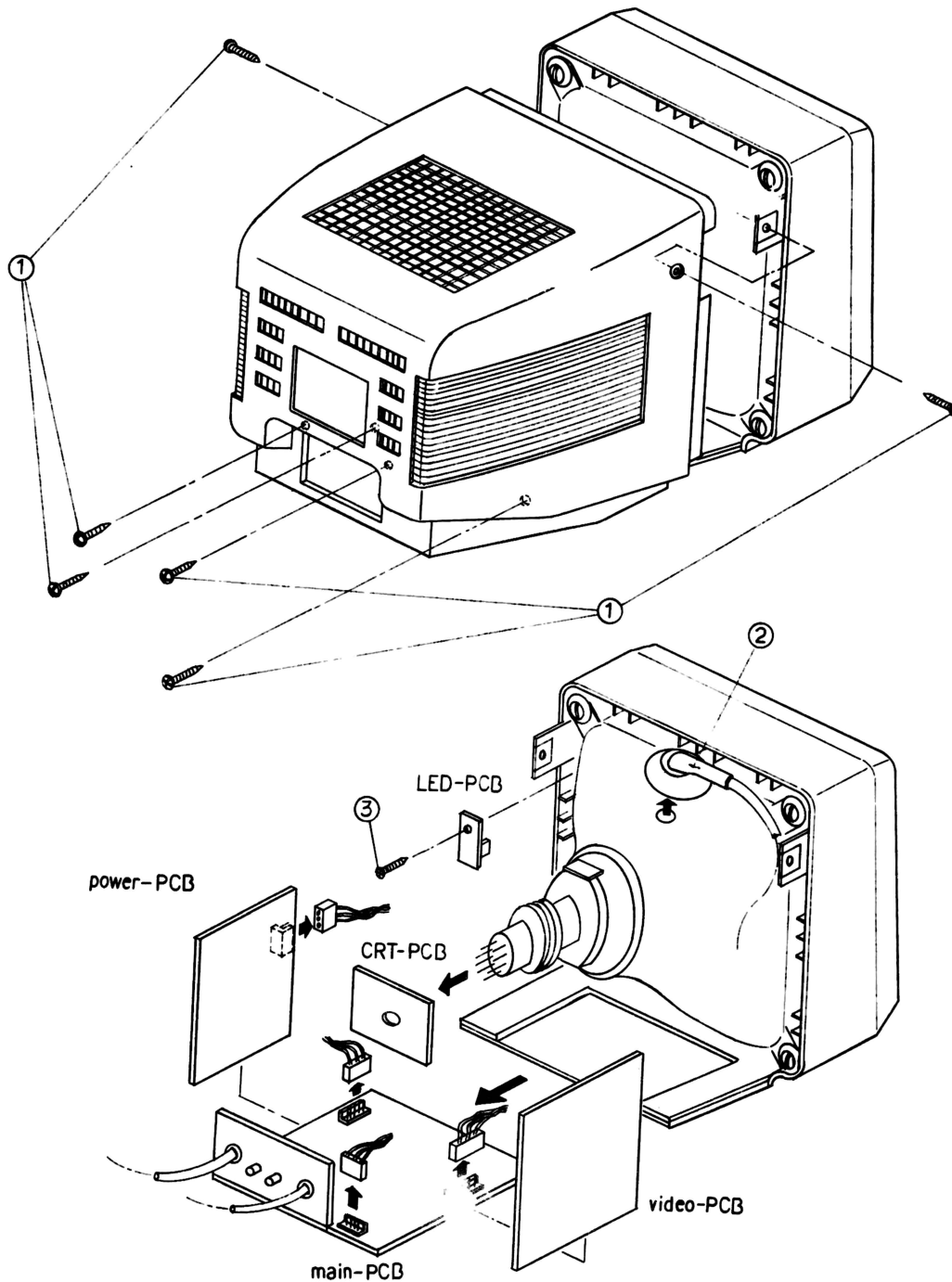
DISASSEMBLY INSTRUCTIONS

1. Remove the 6 screws ① retaining the rear cabinet.

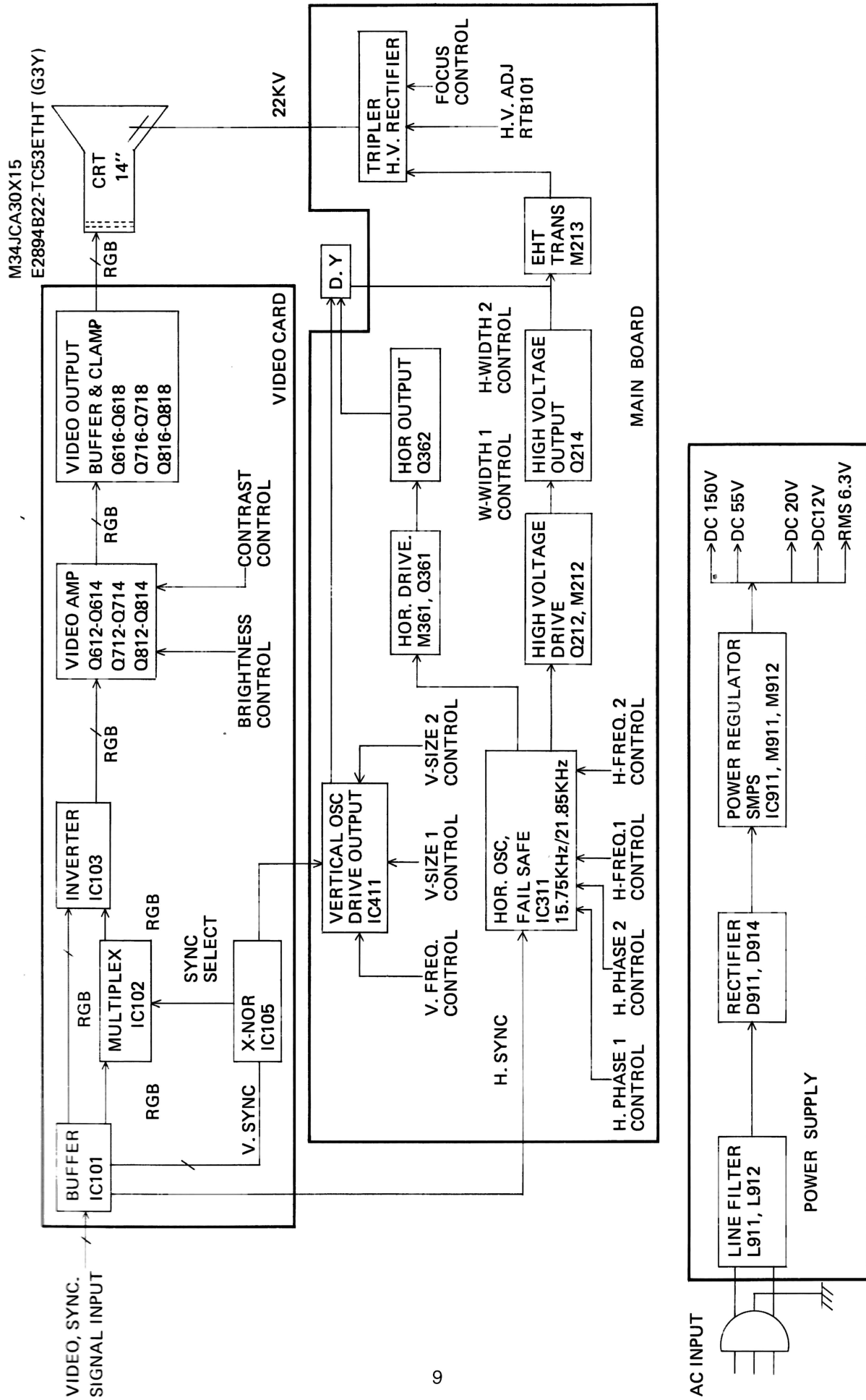
2. (1) Remove the CRT's anode cap ② from the CRT.
(2) Remove the CRT-PCB after disconnecting the ground connector.
(3) Disconnect all of the connectors from the PCBs.
(4) Remove the video-PCB and power-PCB from the main-PCB.
(5) Remove the main-PCB and LED-PCB from the front cabinet.

3. Remove the screw ③ from the front cabinet to remove the LED-PCB.

NOTE: 1. When servicing, be sufficiently careful with the control door because it may be detached from the cabinet when it touches the surface while the set is inclined toward the front.
2. Refer to the EXPLODED VIEW for a more detailed disassembly procedure.

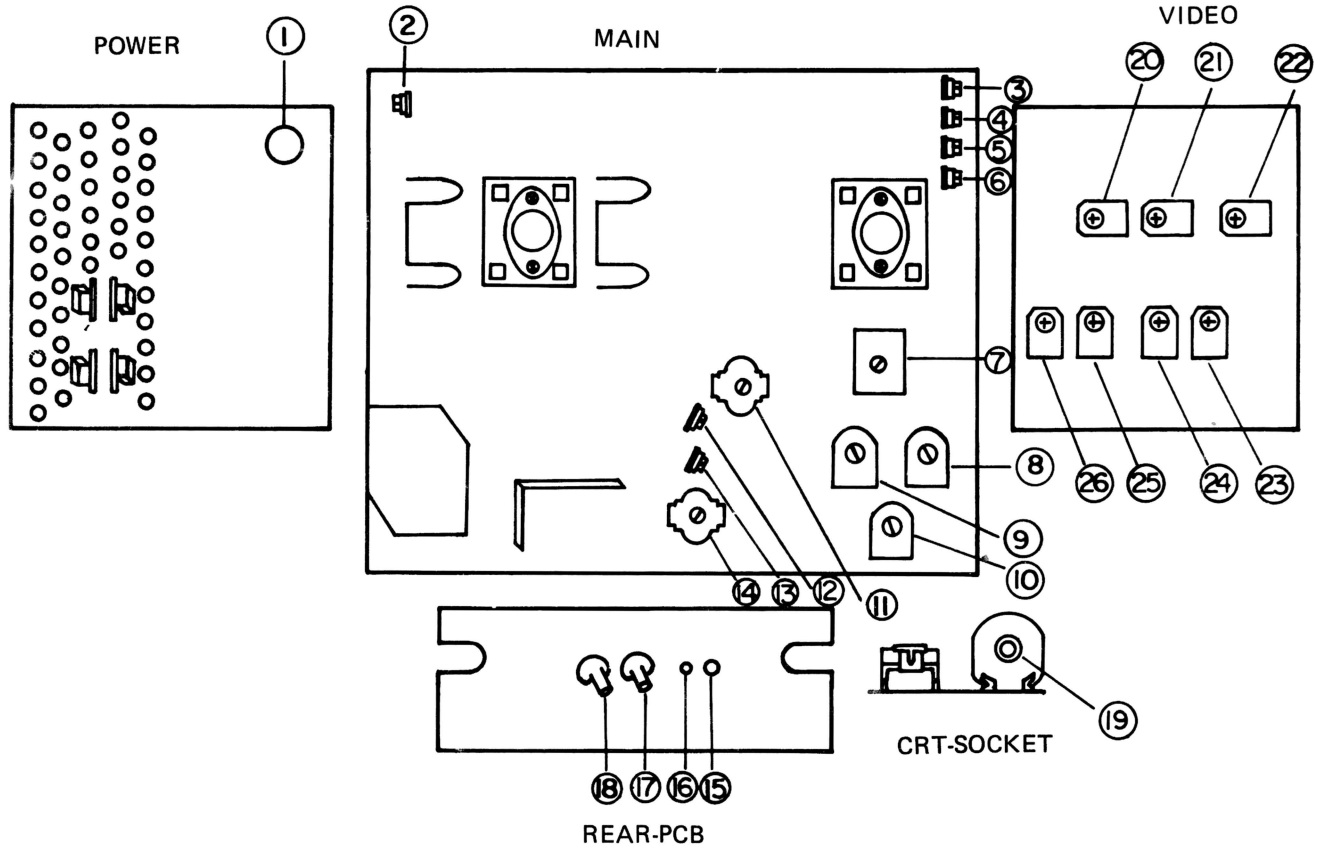


BLOCK DIAGRAM



ALIGNMENT INSTRUCTIONS

• ADJUSTMENT POINT/PARTS LOCATION



NO.	REF. NO.	CONTROL FUNCTION	NO.	REF. NO.	CONTROL FUNCTION
1	VR911	POWER SUPPLY VOLTAGE (153V)	14	VR413	V-CENTERING
2	VR212	ANODE VOLTAGE (22kV)	15	RT4	SUB-CONTRAST
3	VR312	H-FREQ. MODE 1	16	RT3	SUB-BRIGHTNESS
4	VR313	H-FREQ. MODE 2	17	RT2	V. SIZE MODE 2
5	VR314	H-PHASE. MODE 1	18	RT1	V. SIZE MODE 1
6	VR315	H-PHASE. MODE 2	19	VR1	G2 VOLTAGE
7	L362	HORIZONTAL LINEARITY	20	VR814	G-CUT OFF VOLTAGE
8	VR513	H-WIDTH. MODE 1	21	VR714	B-CUT OFF VOLTAGE
9	VR512	H-WIDTH. MODE 2	22	VR614	R-CUT OFF VOLTAGE
10	VR515	PINCUSHION	23	VR812	G-MSB
11	VR362	H-CENTERING	24	VR813	G-LSB
12	VR412	V-FREQ.	25	VR712	B-MSB
13	VR414	VERTICAL LINEARITY	26	VR713	B-LSB

● **ALIGNMENTS AFTER REPAIRING PARTS ON PCB LEVEL**

Alignment \ PCB Level	Power PCB	Main PCB	Video PCB	CRT PCB	CRT
Ext. Degaussing	0	0	0	0	0
Power S. Output Voltage	0				
Vertical Freq.		0			
Horizontal Freq.		0			
Anode Voltage		0	x	x	0
Focus		0	x	x	0
Hor. Centering		0			0
Hor. Linearity		0			0
Pincushion		0			0
Width		0			0
Vertical Cent.		0			0
Vertical Lin.		0			0
Height 1	x	0			0
Height 2	x	0			0
White X/Y		0	0	0	0
CRT Tilt					0
Convergence		x			0

0 = Alignment Items x = Check Items

● **ALIGNMENT PROCEDURE (Unit Facing East)**

1. Power Supply Output Voltage

Connect a DVM to connector M2 pin 1. Adjust the voltage to 153V by means of VR911.

2. Vertical Frequency

Connect a frequency counter across the vertical deflection coil and adjust the frequency to 45Hz by means of VR412. The signal cable must be disconnected from the computer.

3. Horizontal Frequency

Use a crosshatch pattern. Short-circuit connector B5 pin 1 to ground. Use VR313 in the High-Res. Mode and VR312 in the Med-Res. Mode to get the crosshatch in an upright position remove the short.

4. Horizontal Centering

Increase background brightness to show the raster. Use VR315 in the high-resolution mode to center the crosshatch within the raster. Use VR362 to center the raster. Centering tolerance should be $\pm 2\text{mm}$. Use VR314 to center the crosshatch in the medium-resolution mode.

5. Anode Voltage

Adjust the best overall focus. Measure the anode voltage from the CRT anode CAP. Adjust anode voltage to 22kV using VR212. Check the focus and readjust if necessary.

6. Horizontal Linearity

High-resolution mode. Crosshatch pattern.
Adjust L362 for maximum picture width. Then slowly back until the squares are equal in width.

7. Pincushion

Straighten the side lines with VR515.

8. Width

Adjust the data area width to $250 \pm 2\text{mm}$ using VR512 in the high-resolution mode and using VR513 in the medium-resolution mode.

9. Vertical Centering

Center the data area with VR413.

10. Vertical Linearity

Adjust the squares equal in height with VR414.

11. Height 1 (200 Lines)

Adjust data-area height to $170 \pm 2\text{mm}$ with RT1.

12. Height 2 (350 Lines)

Switch to 350 line mode. Adjust data-area height to $170 \pm 2\text{mm}$ with RT2.

13. White X/Y

White data area, high-resolution mode. Turn the brightness to the minimum position. Connect the DVM to each CRT cathode (200 V/DC range). Use respective potentiometers VR614, 714, and 814 to adjust a voltage of 110V to each cathode. Turn the G2 control to a position where the raster just disappears.

Disconnect the vertical deflection yoke (connector B3). Turn VR1 so that the horizontal line just disappears. Notice the color of the line. Connect the vertical deflection yoke.

Place the sensor of the color analyzer on the center of the screen. Turn the brightness clockwise to a point where the reading of the analyzer is reliable. Use two potentiometers out of VR614 and 814 to achieve the correct color coordinates ($X=0.281$, $Y=0.311$). You should not change the voltage of the most sensitive color any more (color of the horizontal line). White data area, gray 1 (MSB only). Pull out the contrast knob and turn the contrast to maximum. Adjust VR813 and VR713 to achieve the correct color coordinates. Push down the contrast knob.

Brown data area. Adjust RT4 to set the data area brown.

14. CRT Tilt Adjustment

Use a cross-hatch pattern. Adjust the CRT with fastening screws so that dimensions A and B, measured from bezel edge, are separately equal. (Fig. 2, Below)

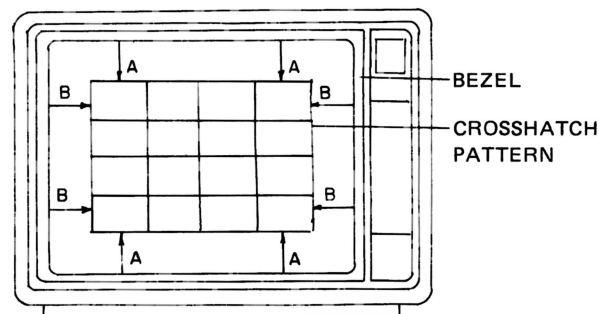


Fig. 2.

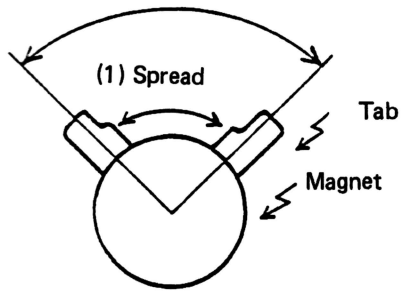
15. Static Convergence Adjustment

Use a cross-hatch pattern. Convergence error should not be over 0.5mm. Preheat monitor at least 15 minutes.

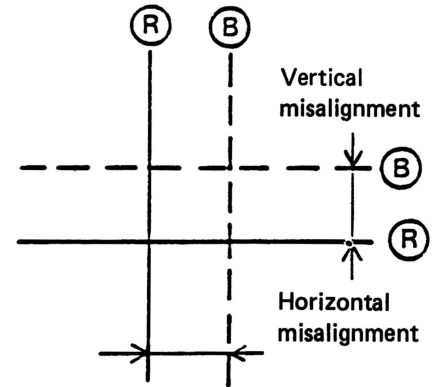
Turn the CRT to face east and degauss it.

A. Alignment of (R) and (B) with the 4-pole magnet

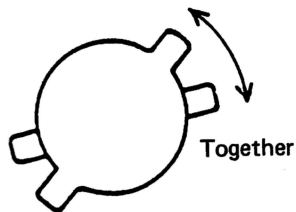
(2) Movable in spread condition



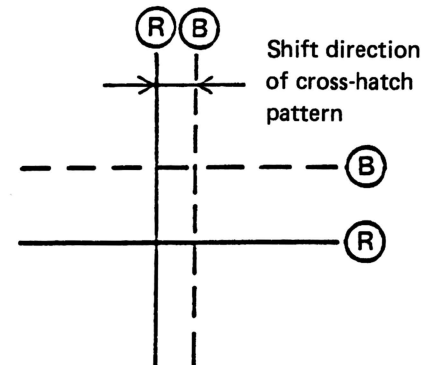
O-MAGNETIC
FIELD



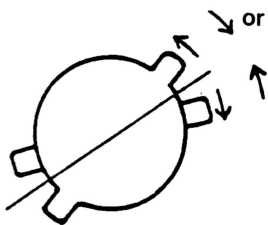
Vertical direction



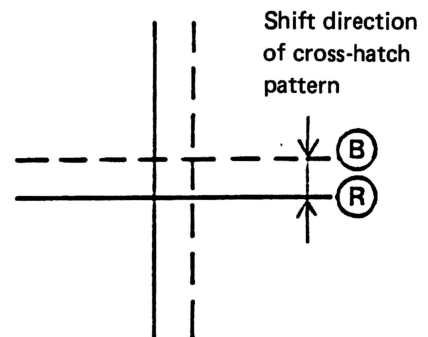
MOTION (1)



Horizontal direction

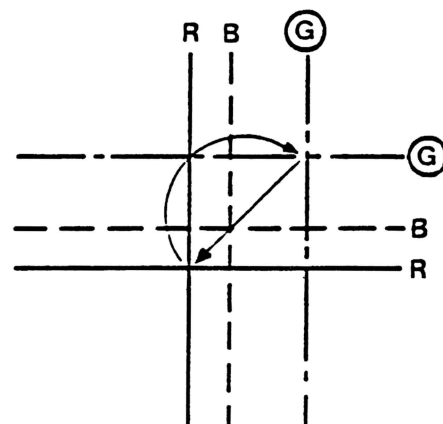


MOTION (2)

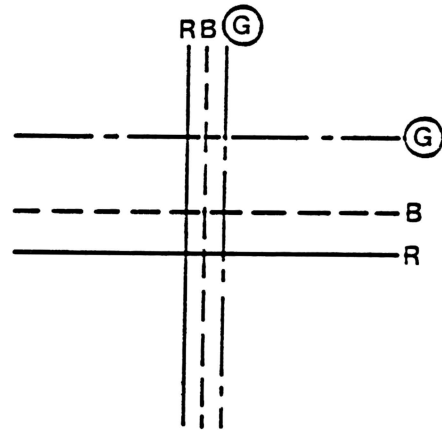


B. Alignment of (R) and (B) with (G) (6-pole magnet)

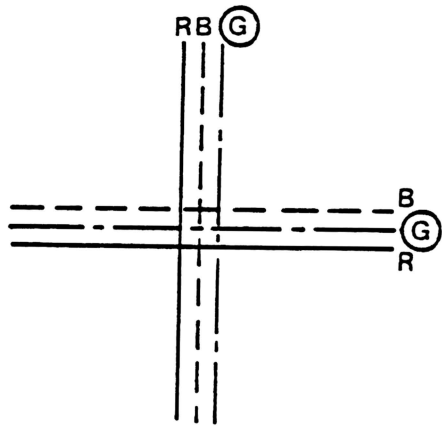
O-MAGNETIC
FIELD



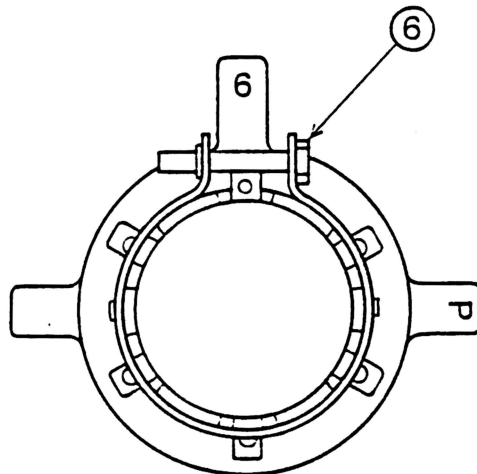
MOTION (1)



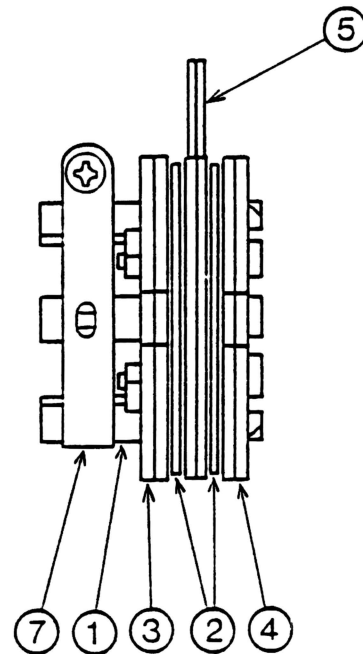
MOTION (2)



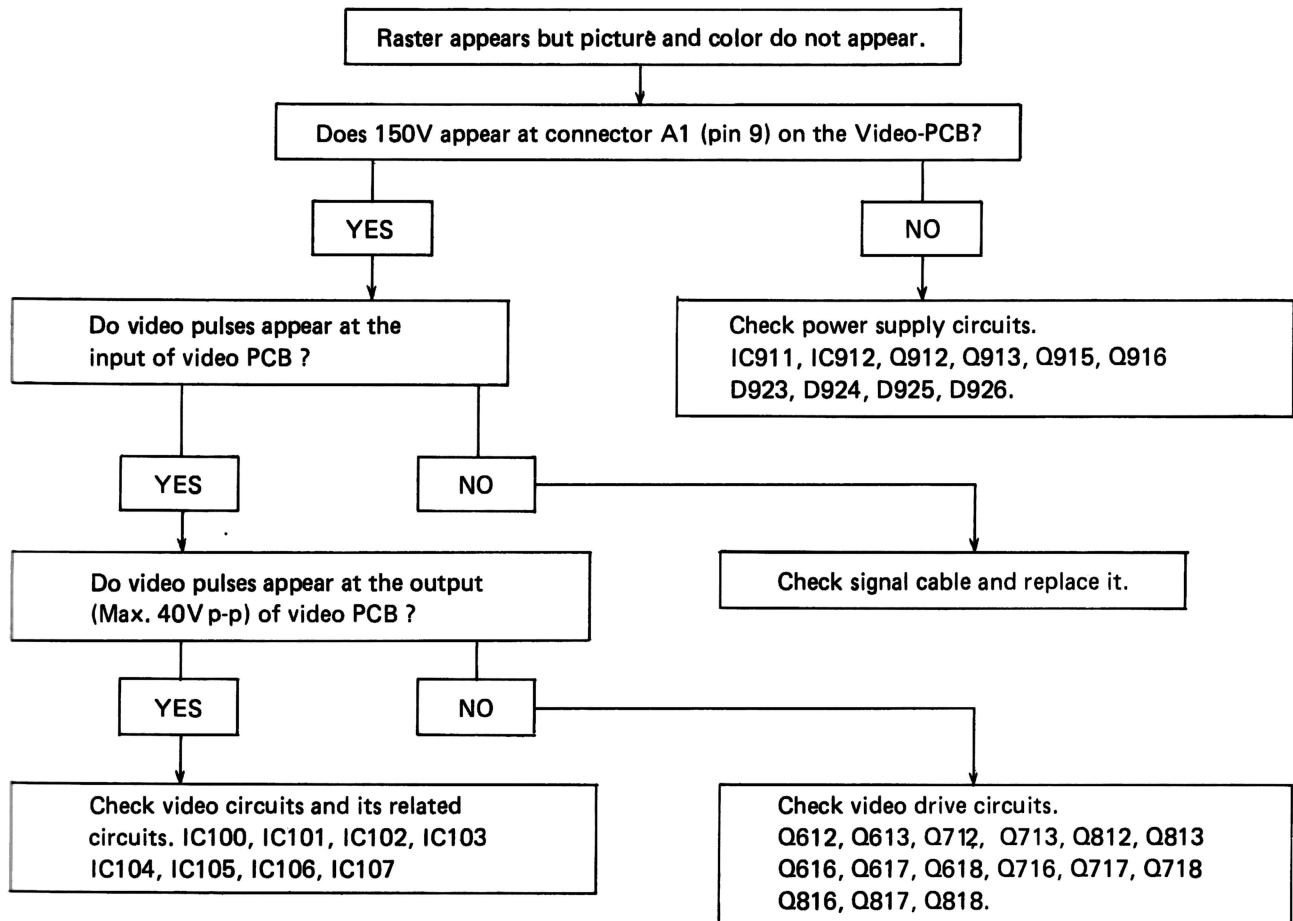
Convergence Purity Magnet

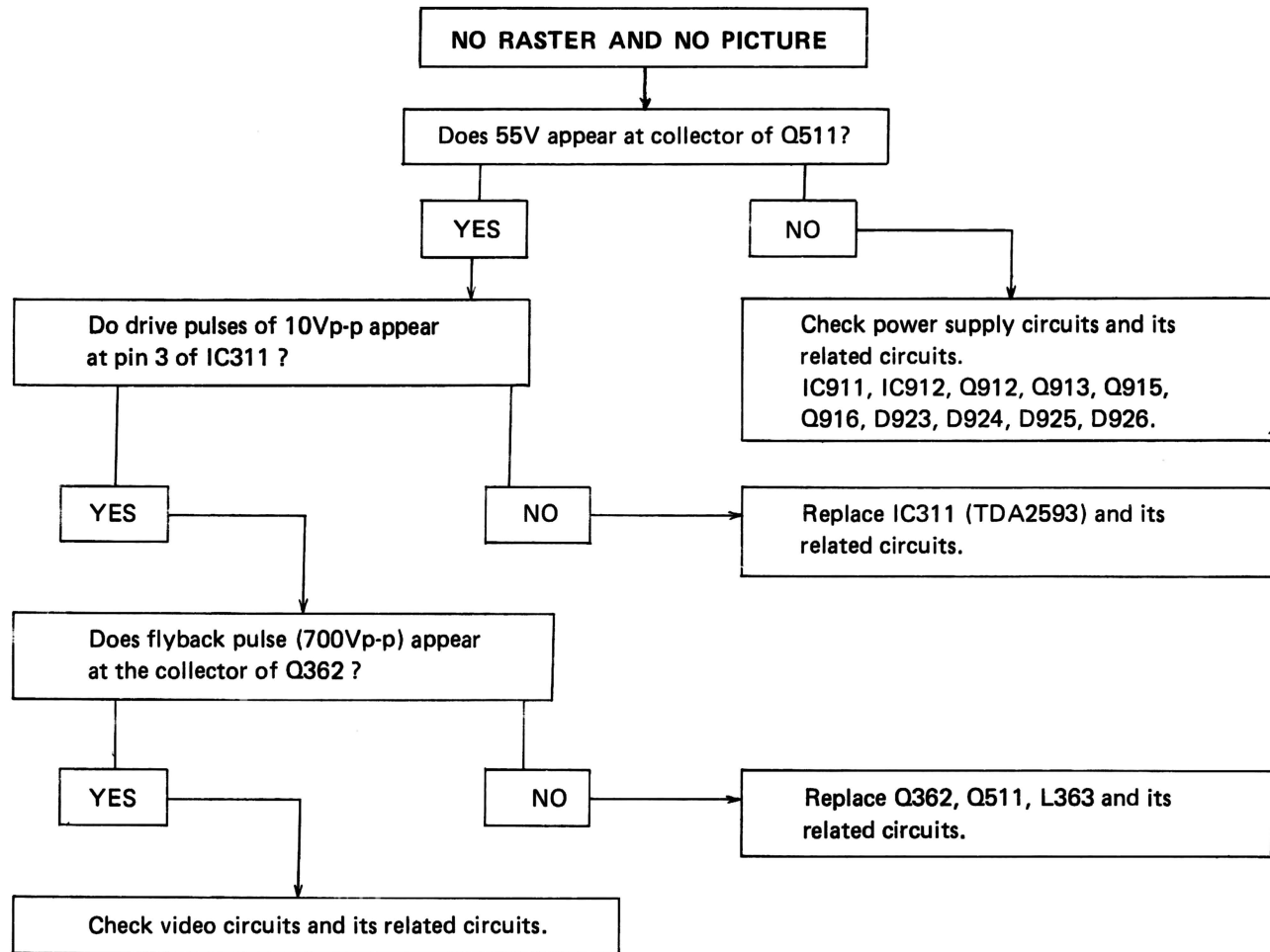


1. Holder
2. Spacer
3. Purity magnet
4. 4 pole magnet
5. 6 pole magnet
6. Setup bolt
7. Band



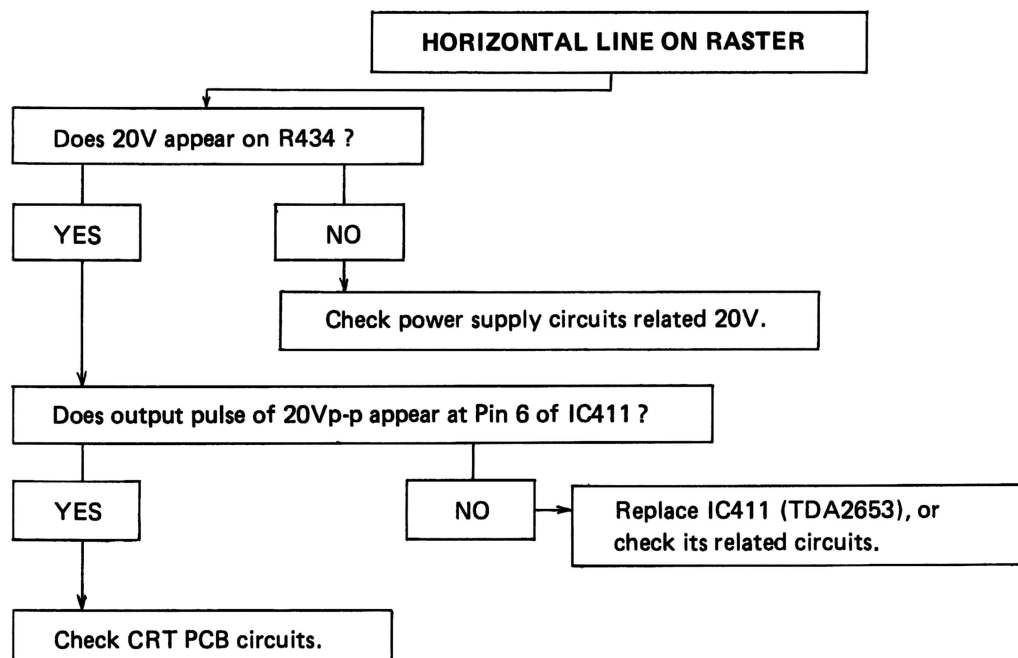
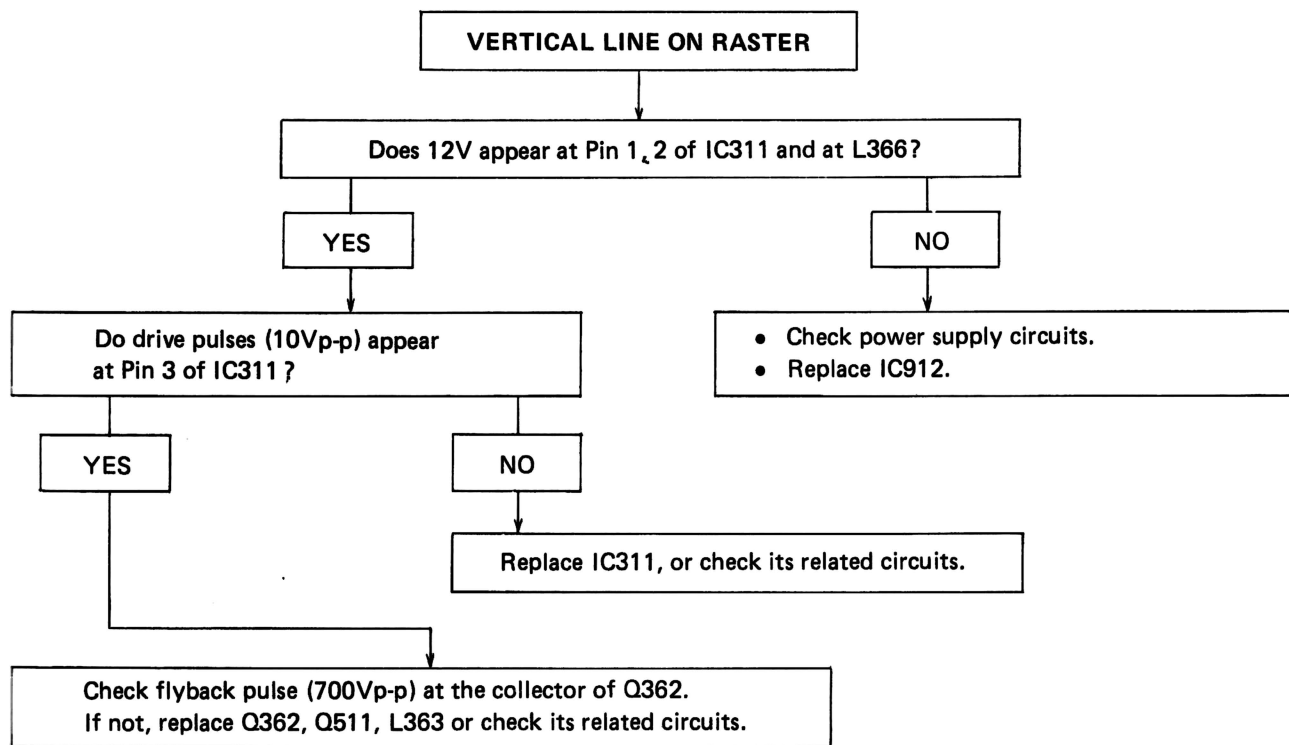
TROUBLESHOOTING GUIDE

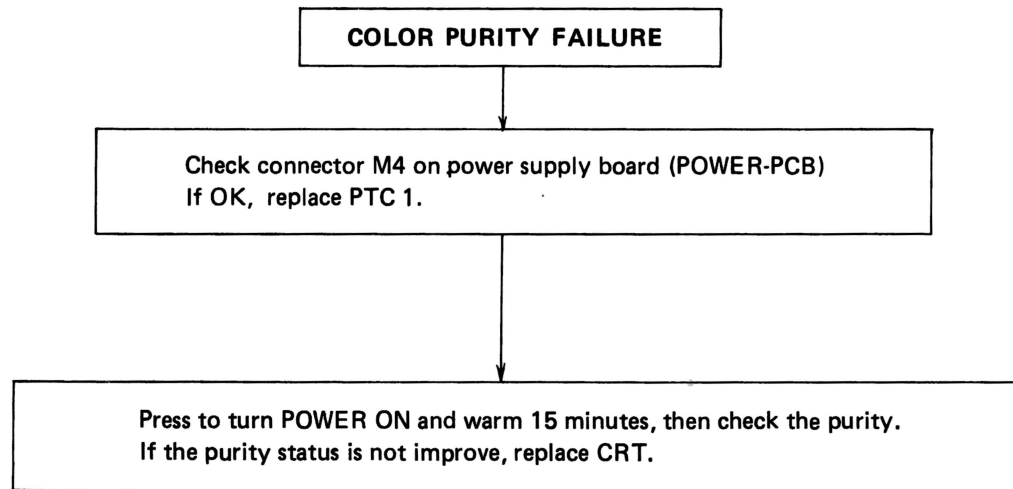




CIRCUITS TO BE CHECKED:

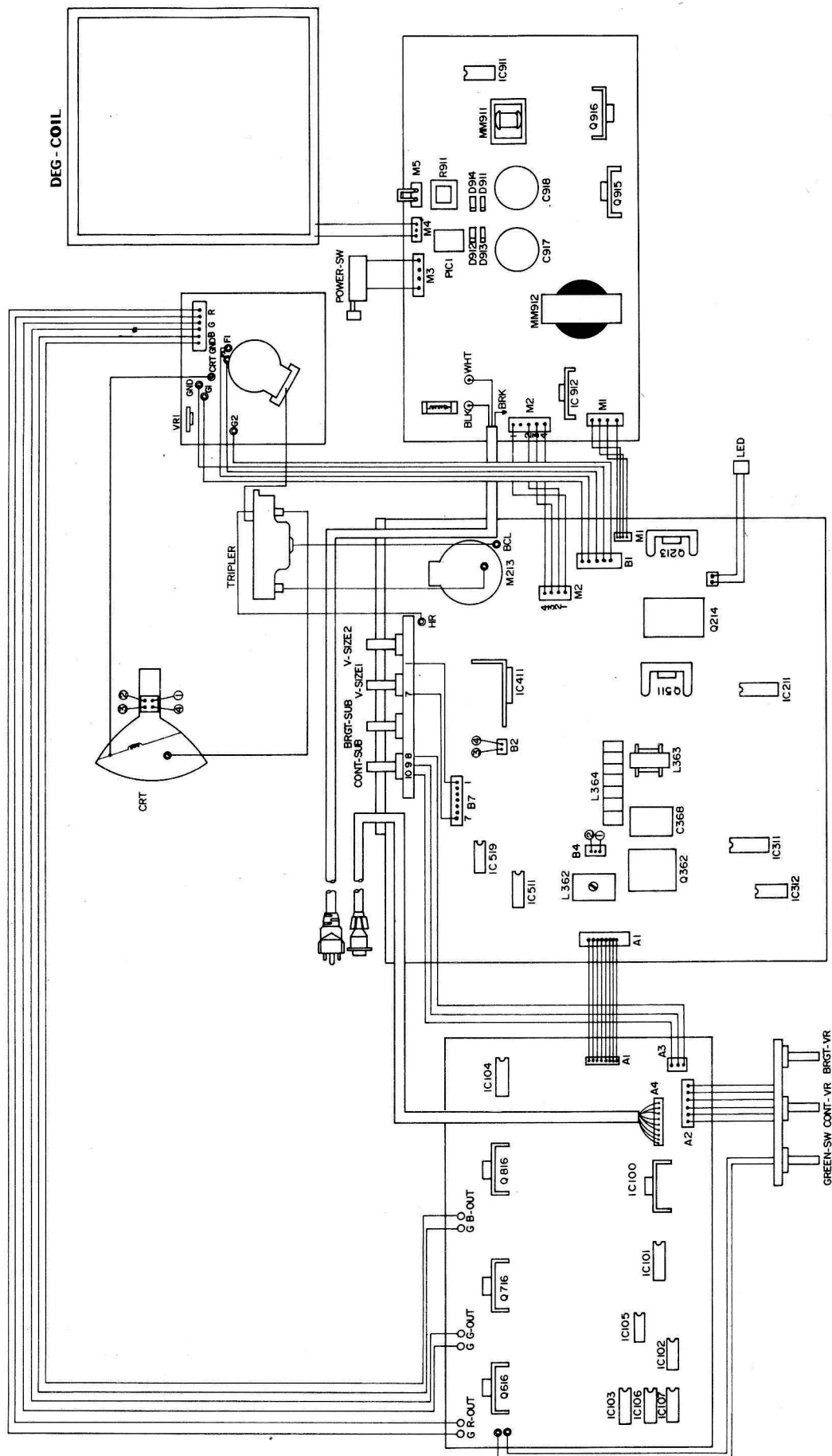
1. No raster appears
 - Power circuits
 - Horizontal sync circuits
 - Protector circuits (Related IC311 Pin 4)
2. A high voltage develops but no raster appears.
 - Video output circuits.
3. A high voltage is not developed.
 - High voltage circuits.



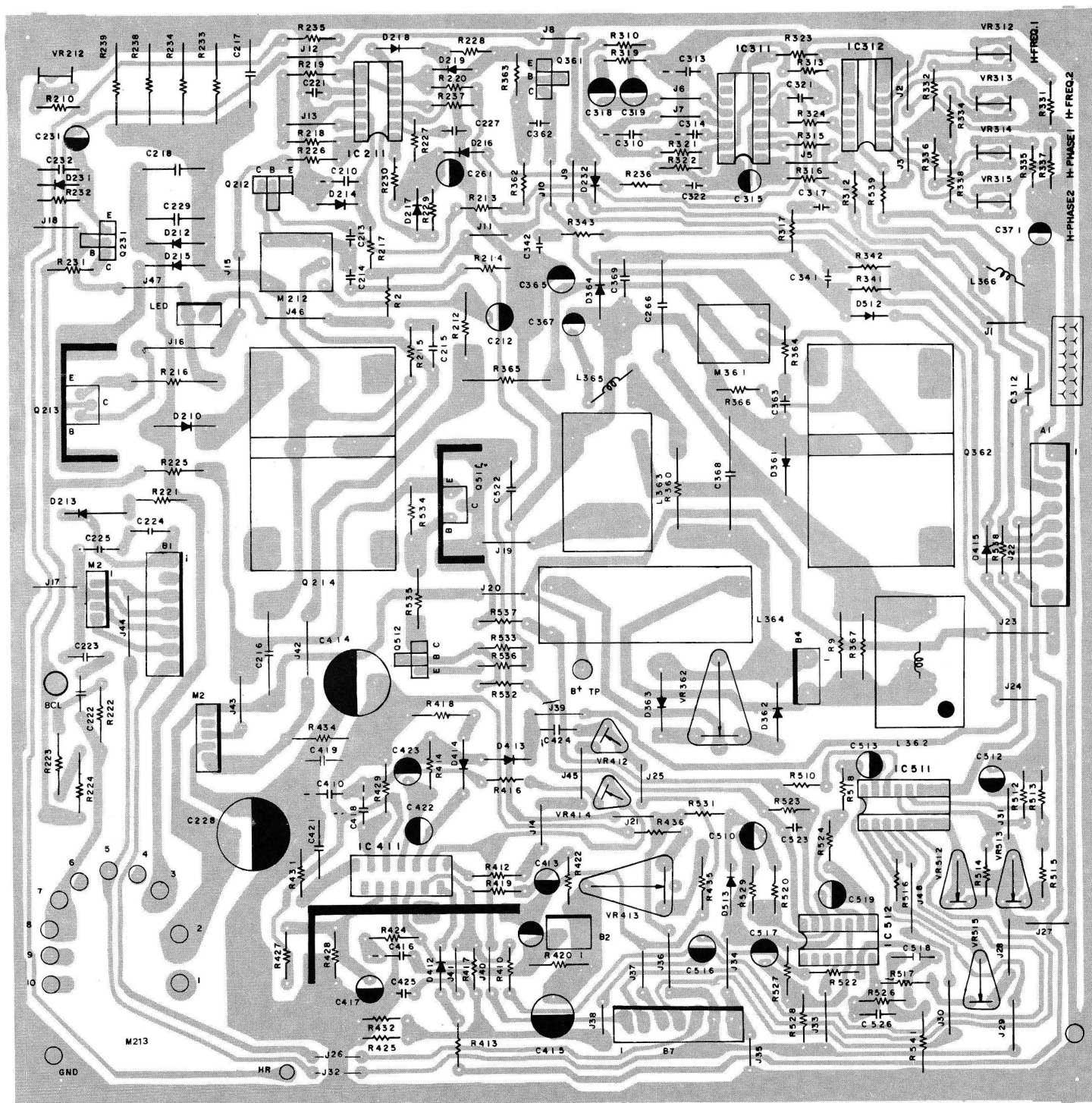


NOTE: If color purity is not normal, manual degauss should be done by mandatory method using the manual degaussing coil before inspecting.

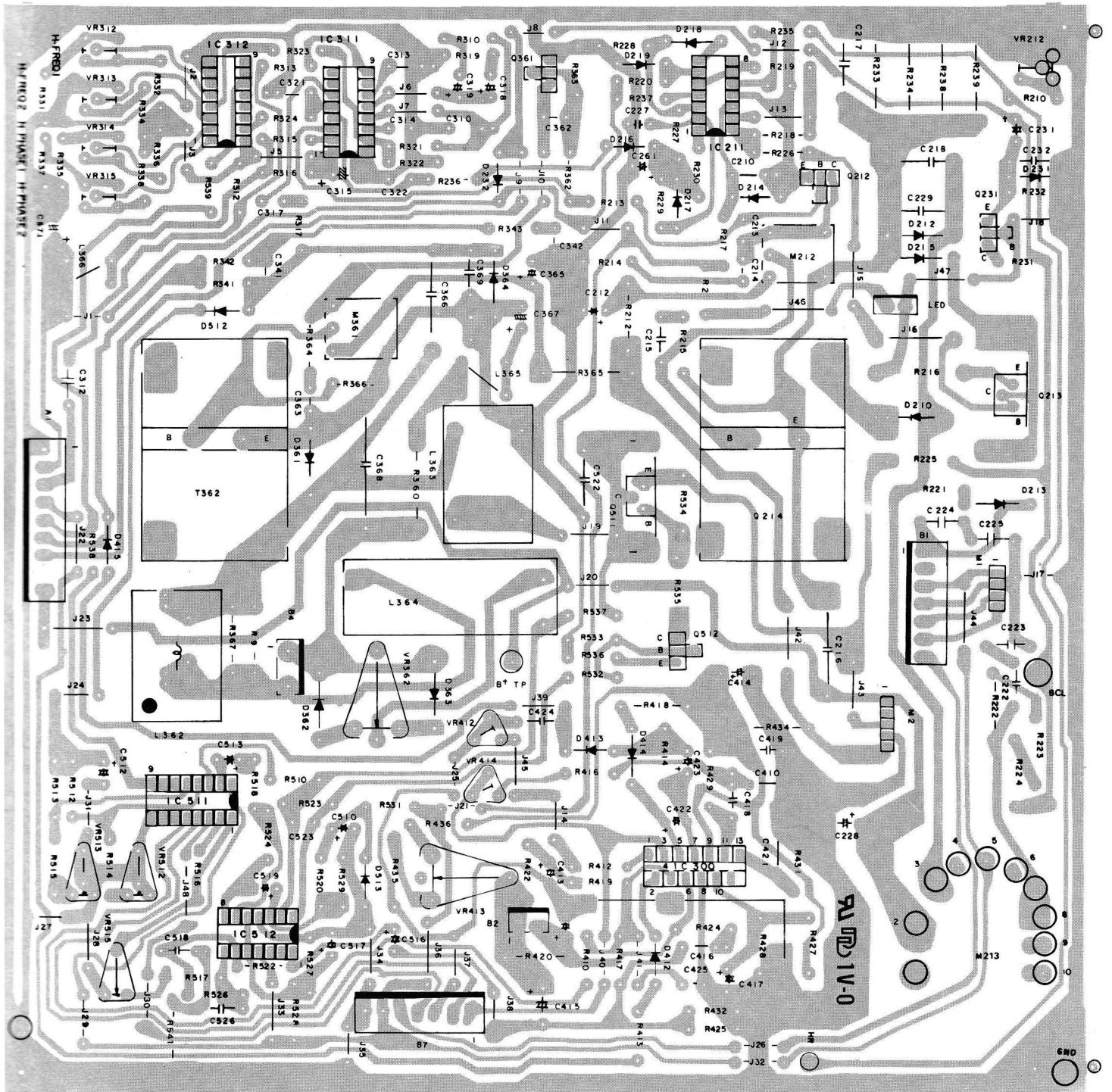
WIRING DIAGRAM AND PARTS LOCATION



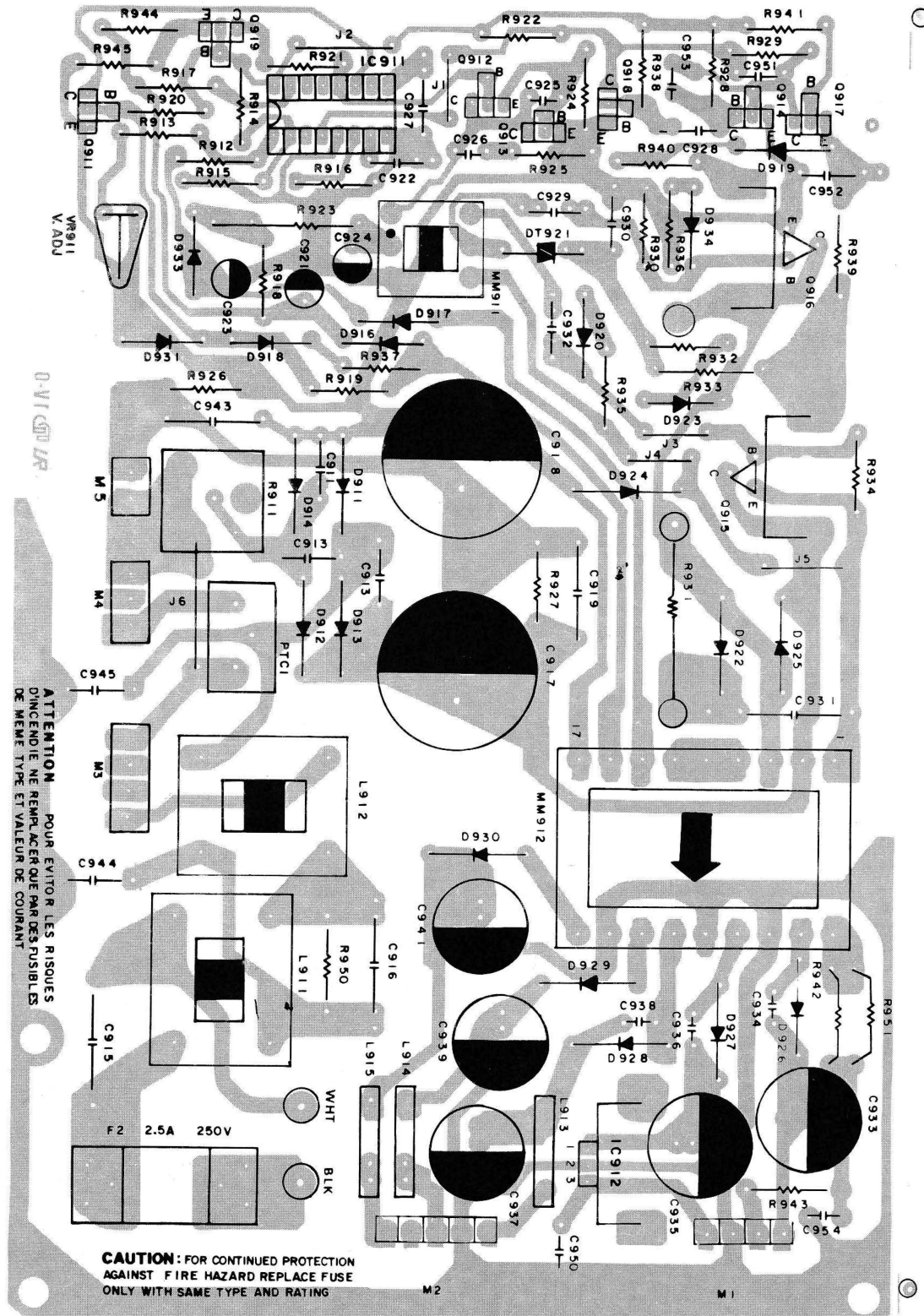
Main PCB (Top View)



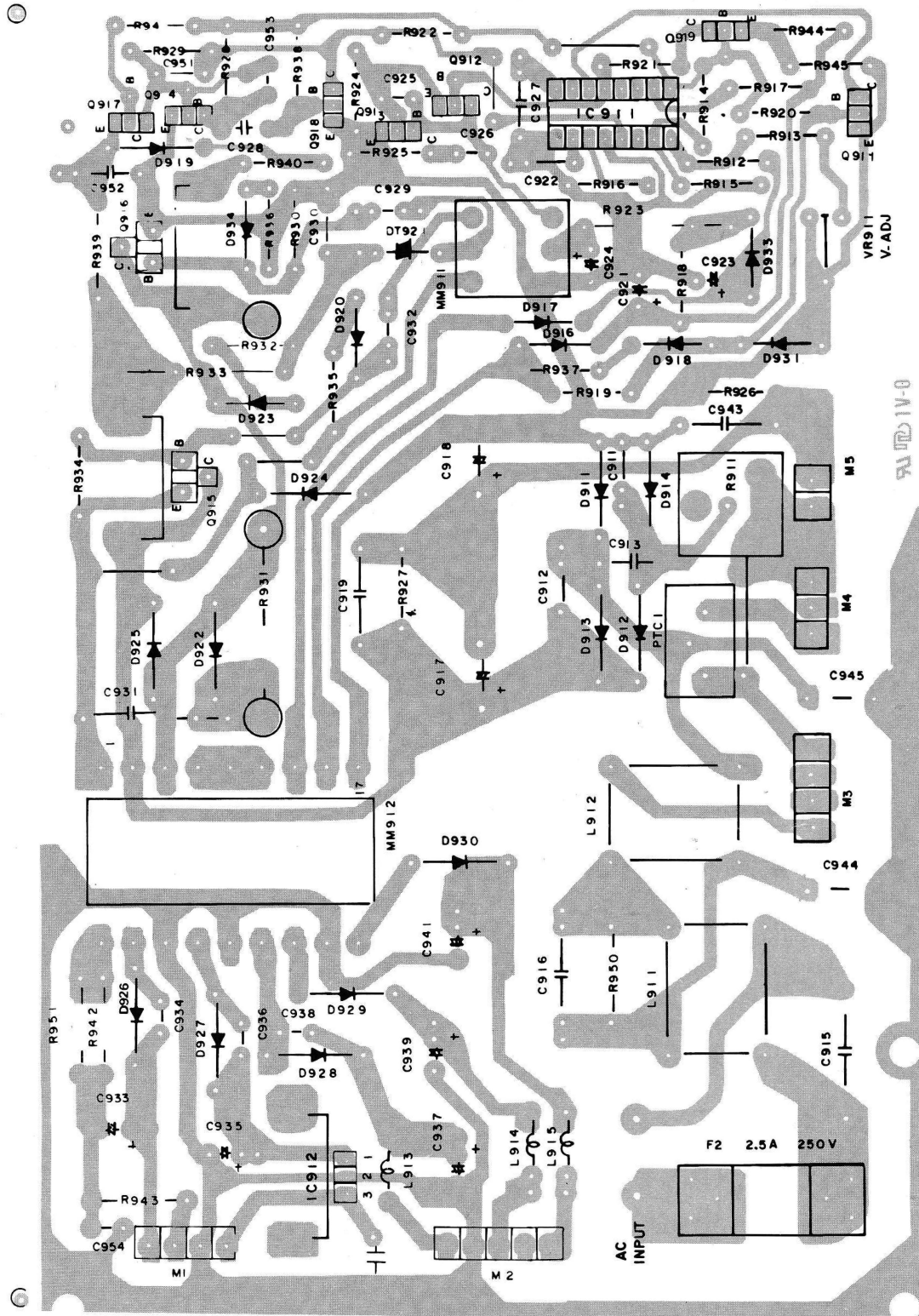
Main PCB (Bottom View)



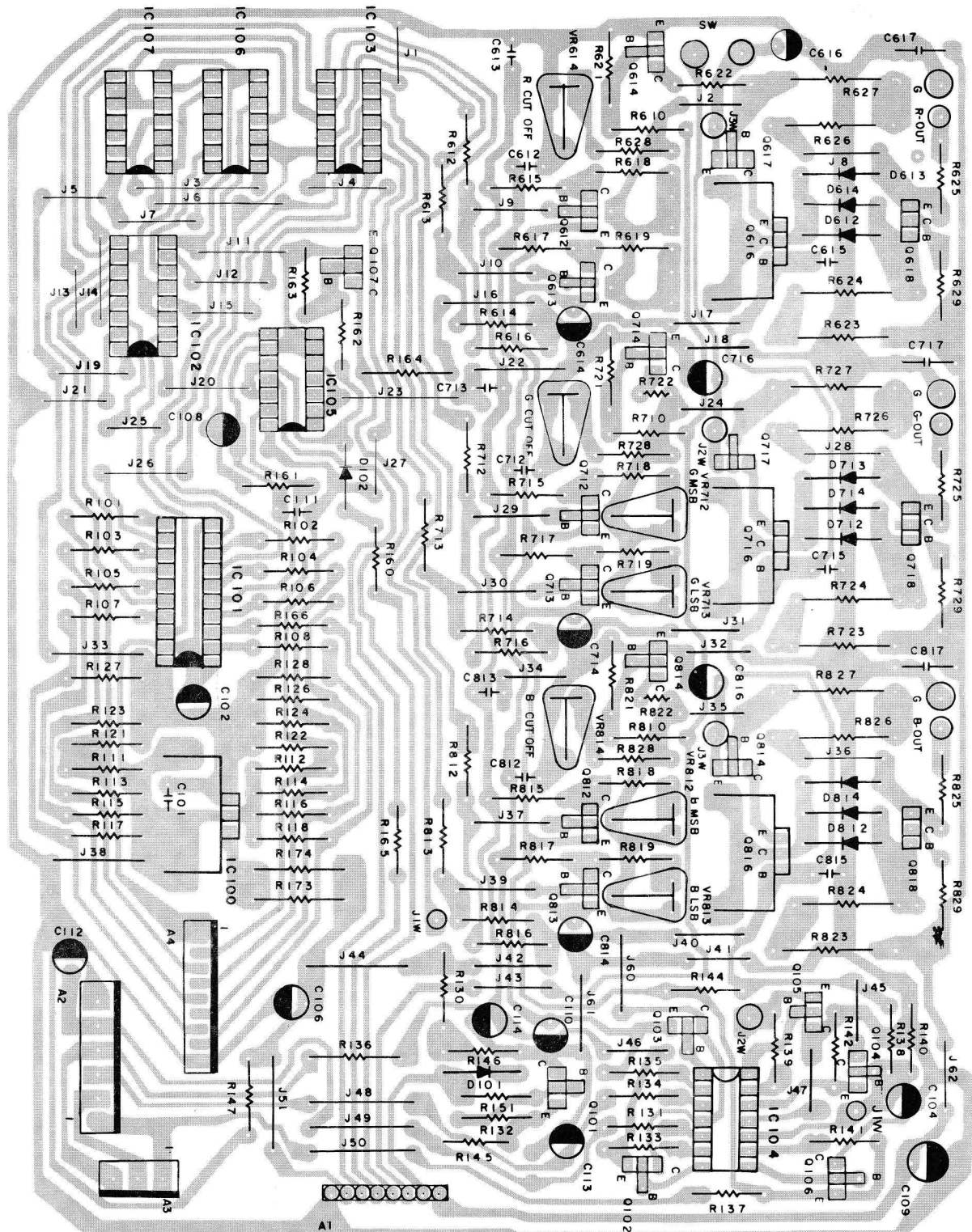
Power PCB (Top View)



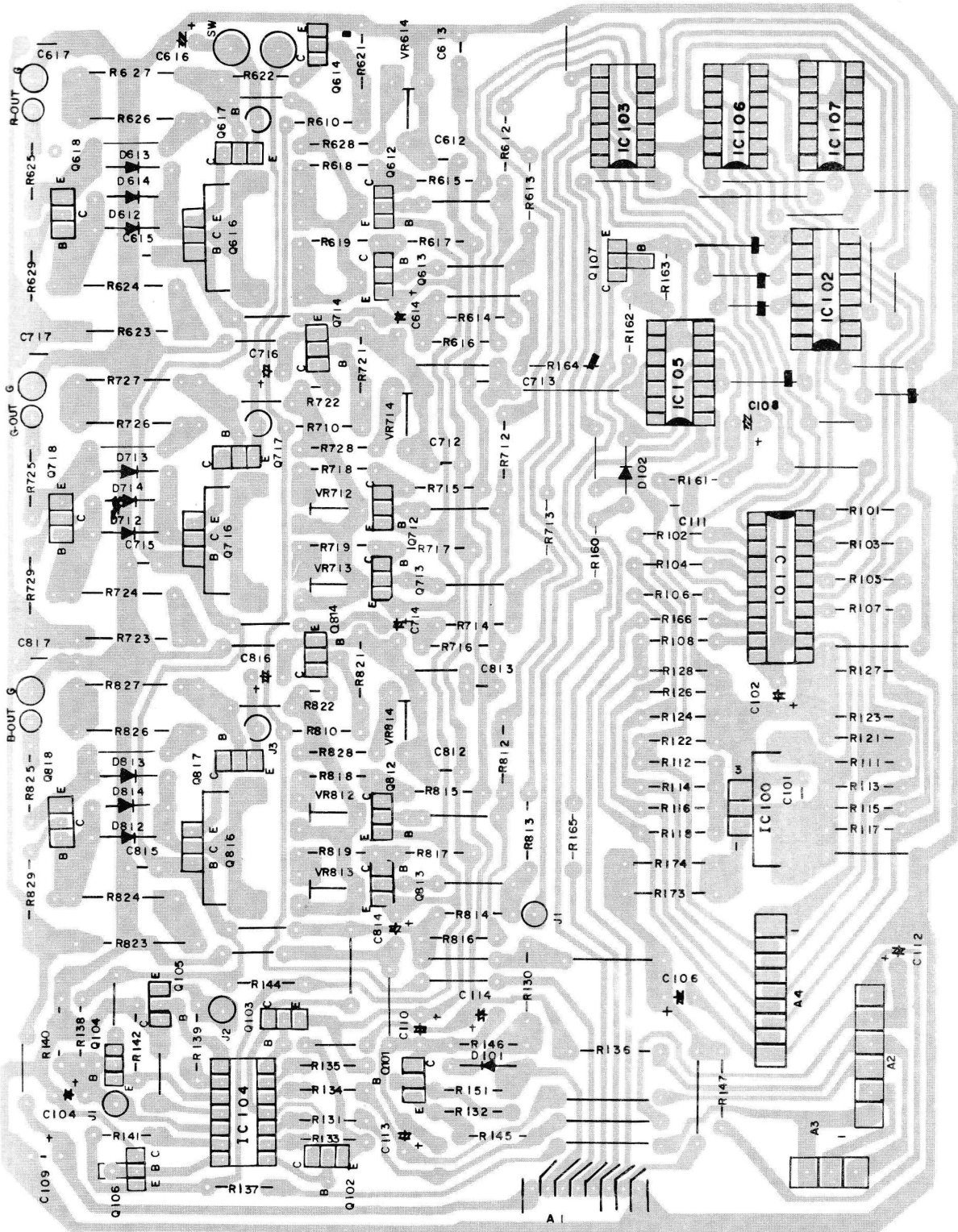
Power PCB (Bottom View)



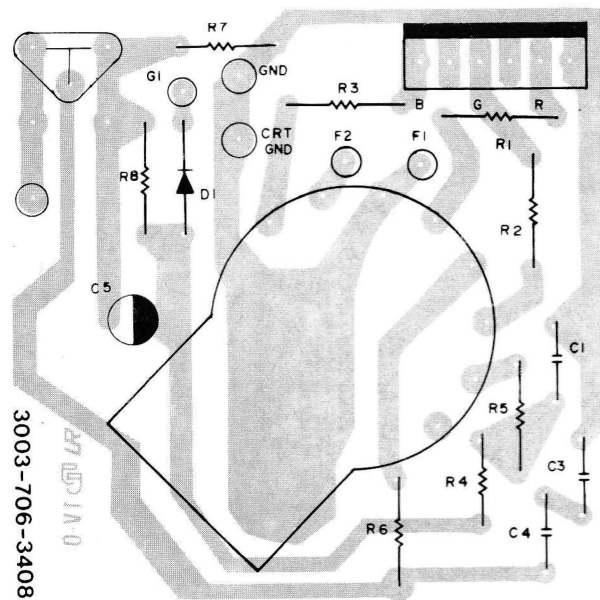
Video PCB (Top View)



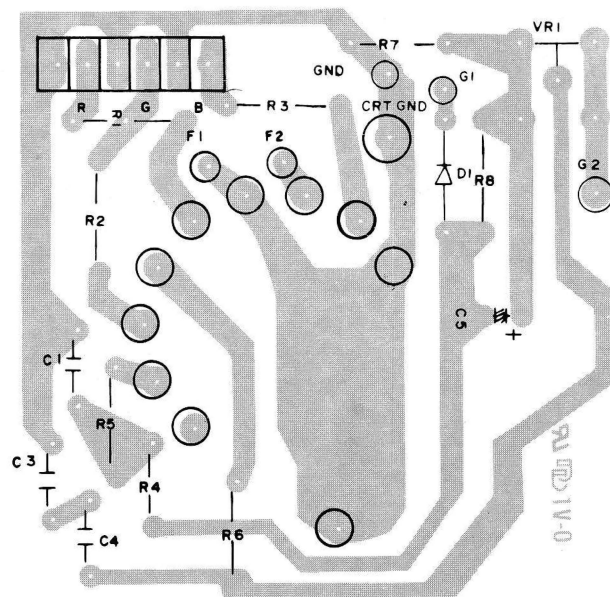
Video PCB (Bottom View)



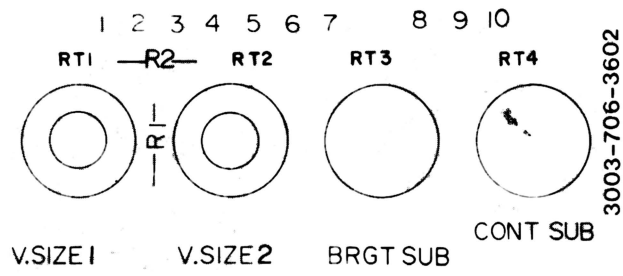
CRT Socket PCB (Top View)



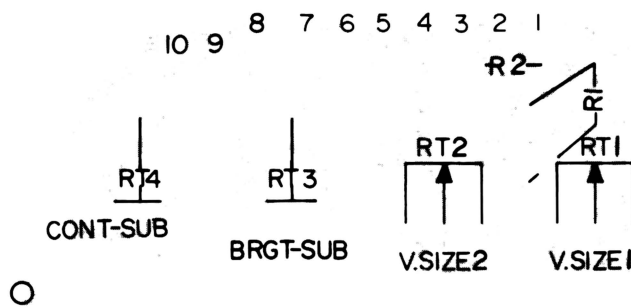
CRT Socket PCB (Bottom View)



Rear PCB (Top View)



Rear PCB (Bottom View)



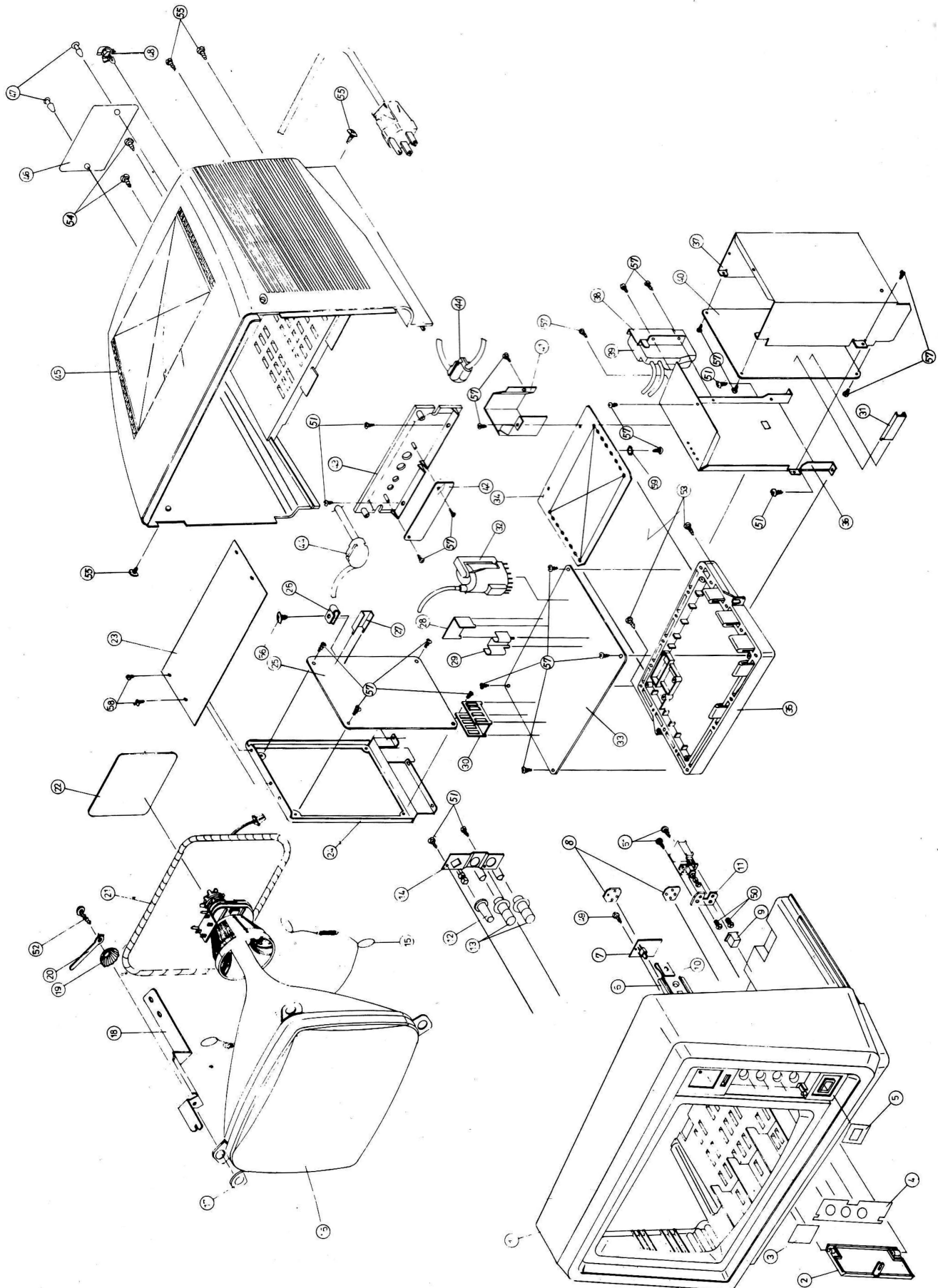
LED PCB (Top View)



LED PCB (Bottom View)



CABINET EXPLODED VIEW



CABINET PARTS LIST

REF. NO	DESCRIPTION	RS PART NO.	MFR'S PART NO.
1	Cabinet-Front		6001-781-0405
2	Door-Control		6053-703-5400
3	Badge-Brand		8023-700-5104
4	Inlay-Control		7713-705-6507
5	Inlay-Power		7714-721-4504
6	Boss-Cabinet		6464-700-7101
7	PCB-LED		3003-706-3505
8	Barrier-Cover		3904-701-7106
9	Knob-Main, Power		7624-144-3702
10	Nut-Speed		7223-700-2104
11	Bracket-Power		6614-722-8105
12	Knob-Green, Color		7624-503-2104
13	Knob-Control		7624-138-8106
14	Bracket-Control		6614-722-6105
15	Ground-CRT Ass'y		3054-221-9101
16	CRT + DY		2019-231-3203
17	Washer-Gum, CRT		6834-701-1101
18	Bracket-Connector		6613-709-1102
19	Washer-Spring		7334-700-7104
20	Clamper-Wire		6634-703-8106
21	Coil-Degaussing		2479-013-6109
22	PCB-CRT		3003-706-3408
23	Shield-Top		4543-702-3101
24	Frame-V, PCB		6122-701-2106
25	PCB-Video		3003-706-3301
26	Clamp-Cable		6634-704-2109
27	Heatsink-V-Out		5684-705-0106
28	Heatsink-IC		5683-705-1104
29	Heatsink-Drive		5684-704-8103
30	Heatsink-H-Out		5684-704-9108
31	Heatsink-Power		5684-704-7108
32	FBT (HV)		2859-111-1109
33	PCB-Main		3003-706-3107
34	Shield-Main PCB		4542-700-9108
35	Frame-Main PCB	AHC-0409	6021-101-9107
36	Bracket-Power L		6612-703-8102
37	Bracket-Power U		6612-703-7107
38	Bracket-Focus	AHC-0407	6614-722-4105
39	Tripler		2859-113-1105
40	PCB-Power		3003-706-3204
41	Shield-FBT (HV)		4543-702-2106
42	PCB-Rear		3003-706-3602

REF. NO.	DESCRIPTION	RS PART NO.	MFR'S PART NO.
43	Terminal-Board	AHC-0405	3302-700-3305
44	Holder-Cord	ART-0319	6603-703-0104
45	Cabinet-Back		6001-782-0417
46	Inlay-Rating		7712-701-6100
47	Holder-Button	ART-0320	6604-707-1108
48	Not Used		
49	Screw-Tap, RH, 3x8mm		7148-530-0819
50	Screw-RH, Machine, 3x6mm		7048-130-0616
51	Screw-Tap, RH, 4x12mm		7148-540-1213
52	Screw-Tap, TH, 5x20mm		7128-550-2015
53	Screw-Tap, TH, 4x16mm		7128-540-1620
54	Screw-Tap, TH, 4x12mm, Coating		7124-700-3103
55	Screw-Tap, TH, 4x16mm, Coating		7124-700-2108
56	Screw-Tap, TH, 4x8mm		7128-540-0810
57	Screw-Tap, RH, 3x10mm		7148-530-1018
58	Screw-Tap, RH, 4x8mm		7148-540-0810
59	Washer-Star		7328-103-0019

ELECTRICAL PARTS LIST

PRODUCT SAFETY NOTE: Components marked with a Δ have special characteristics important to safety. Before replacing any of these components, read carefully the SAFETY NOTICE on page 4 of this service manual. Do not degrade the safety of the product through improper servicing. Components marked with a \blacktriangle are related to the X-ray protection circuit.

NOTE: Unless otherwise specified

1. All the capacitance of the polypropylene capacitors, M-polyester and electrolytic capacitors are indicated in " μF ".
2. All the capacitance of the ceramic capacitors are indicated in " pF ".

REF. NO.	DESCRIPTION	RS PART NO.	MFR'S PART NO.
	ASSY-PCB, Main		9102-785-2206
CAPACITORS			
C210	M. Polyester, CF922 100V 0.1, $\pm 5\%$		1517-323-1049
C211	Not Used		
C212	Electrolytic, CE04W (T) 50V 1, $\pm 20\%$		1608-906-1090
C213	Ceramic Temp, CC45 (T) SL 50V 100, $\pm 5\%$		1407-017-1018
C214	Ceramic HK, CK45 (T) F 50V 4700, $+80/-20\%$		1417-344-4727
C215 Δ	M, Polyester, CF922M 250V 0.022, $\pm 5\%$		1517-383-2235
C216	M, Polyester, CF922M 250V 2.2, $\pm 5\%$		1517-383-2299
C217 Δ	M, Polyester, CF922M 100V 0.47, $\pm 5\%$		1517-323-4743
C218 Δ	M, Polypropylene, CF922M 1600V 0.0033, $\pm 5\%$		1518-373-3324
C219	Not Used		
C220	Electrolytic, CE04W (T) 50V 4.7, $\pm 20\%$		1608-906-4790
C221	Ceramic HK, CK45 (T) B 50V 2200, $\pm 10\%$		1417-318-2221
C222 Δ	M, Polyester, CF922M 630V 0.022, $\pm 5\%$		1517-353-2272
C223 Δ	M, Polyester, CF922M 680V 0.022, $\pm 5\%$		1517-353-2272
C224	M, Polyester, CF922M 630V 0.022, $\pm 5\%$		1517-353-2272
C225	M, Polyester, CF922M 630V 0.022, $\pm 5\%$		1517-353-2272
C226	Not Used		
C227	Ceramic HK, CK45 B 50V 4700, $\pm 10\%$		1416-318-4729
C228	Electrolytic, CE04W 200V 47, $\pm 20\%$		1803-915-4706
C229 Δ	M, Polypropylene, DKR 1600V 0.0022, $\pm 5\%$		1518-373-2222
C230	Not Used		
C231	Electrolytic, CE04W (T) 35V 22, $\pm 20\%$		1608-905-2205
C232	M, Polyester, CF922M 100V 0.22, $\pm 5\%$		1517-323-2248
C233			
I	Not Used		
C260			
C261	Electrolytic, CE04W (T) 50V 4.7, $\pm 20\%$		1608-906-4794
C262			
I	Not Used		
C309			
C310	M. Polyester, CF922 250V 0.01, $\pm 5\%$		1517-383-1036
C311	Not Used		
C312	M. Polyester, CF922 100V 0.1, $\pm 5\%$		1517-323-1049
C313	M. Polyester, CF922 100V 0.1, $\pm 5\%$		1517-323-1049
C314	P. Polypropylene CQ922M 100V 0.0047, $\pm 5\%$		1503-523-4720

REF. NO.	DESCRIPTION	RS PART NO.	MFR'S PART NO.
C315	Electrolytic, CE04W (T) 16V 100, $\pm 20\%$	CC-275JNCH	1608-903-1019
C316	M. Polyester, CF922 250V 0.01, $\pm 5\%$		1517-383-1036
C317	Ceramic HK, CK45 (T) B 500V 1000, $\pm 10\%$		1417-468-1026
C318	Electrolytic, CE04W (T) 50V 4.7, $\pm 20\%$		1608-906-4794
C319	Electrolytic, CE04W (T) 50V 0.47, $\pm 20\%$		1608-906-0475
C320	Not Used		
C321	M. Polyester, CF922M 250V 0.022, $\pm 5\%$		1517-383-2235
C322	Ceramic HK, CK45 (T) F50V 0.22, $-80/-20\%$		1417-344-2231
C323			
I	Not Used		
C359			
C360	Ceramic HK, CK45 (T) B 500V 4700, $\pm 10\%$		1417-468-4720
C361	Not Used		
C362	Ceramic Temp, CC45 (T) SL 50V 330, $\pm 5\%$		1407-017-3319
C363	Ceramic HK, CK45 (T) F 50V 4700, $+80/-20\%$		1417-344-4727
C364	Not Used		
C365	Electrolytic, CE04W (T) 50V 1, $\pm 20\%$		1608-906-1090
C366 Δ	M. Polypropylene, CF922M 1600V 0.0095, $\pm 5\%$		1518-373-9528
C367 Δ	Electrolytic, CE04W (T) 63V 22, $\pm 20\%$		1608-907-2201
C368 Δ	Polypropylene, CQ922M 160V 2.7, $\pm 5\%$ (WIMA)		1507-533-2747
C369 Δ	Polypropylene, CQ922M 400V 0.1, $\pm 5\%$ (SNY)		1507-543-1044
C370	Not Used		
C371	Electrolytic, CE04W (T) 16V 100, $\pm 20\%$		1608-903-1019
C372			
I	Not Used		
C409			
C410	M. Polyester, CF922 100V 0.1, $\pm 5\%$		1517-323-1049
C411			
I	Not Used		
C412			
C413	Electrolytic, CE04W (T) 50V 4.7, $\pm 20\%$		1608-906-4794
C414	Electrolytic, CE04W 40V 1000, $\pm 20\%$		1603-916-1023
C415	Electrolytic, CE04W 16V 2200, $\pm 20\%$		1609-401-5307
C416	M. Polyester, CF922 100V 0.1, $\pm 5\%$		1517-323-1049
C417	Electrolytic, CE04W (T) 35V 10, $\pm 20\%$		1608-905-1006
C418	M. Polyester, CF922 100V 0.1, $\pm 5\%$		1517-323-1049
C419	M. Polyester, CF922 100V 0.1, $\pm 5\%$		1517-323-1049
C420	Not Used		
C421	M. Polyester, CF922M 100V 0.47, $\pm 5\%$		1517-323-4743
C422	Electrolytic, CE04W 40V 100, $\pm 20\%$		1603-916-1014
C423	Electrolytic, CE04W (T) 35V 10, $\pm 20\%$		1608-905-1006
C424	M. Polyester, CF922M 100V 0.047, $\pm 5\%$		1517-323-4734
C426	Ceramic Temp, CC45 (T) SL 50V 270, $+80/-20\%$		1407-017-2712
C427			
I	Not Used		
C509			
C510	Electrolytic, CE04W (T) 35V 10, $\pm 20\%$		1608-905-1006

REF. NO.	DESCRIPTION	RS PART NO.	MFR'S PART NO.
C511	Not Used		
C512	Electrolytic, CE04W 100V 22, $\pm 20\%$		1603-908-2209
C513	Electrolytic, CE04W (T) 50V 4.7, $\pm 20\%$		1608-906-4794
C514			
I	Not Used		
C515			
C516	Electrolytic, CE04W (T) 50V 4.7, $\pm 20\%$		1608-906-4794
C517	Electrolytic, CE04W (T) 35V 10, $\pm 20\%$		1608-905-1006
C518	M. Polyester, CF922M 100V 0.047, $\pm 5\%$		1517-323-4734
C519	Electrolytic, CE04W (T) 35V 47, $\pm 20\%$		1608-905-4700
C520			
i	Not Used		
C521			
C522	M. Polyester, CF922M 100V 0.1, $\pm 5\%$		1517-323-1094
C523	Ceramic HK, CD45 (T) F 50V 0.033, $+80/-20\%$		1417-344-3333
COILS			
L362	Linearity, FU0464, FM0464 (S)	ACA-9042	2449-722-0105
L363 Δ	Choke, Input, FJ0480, FJ0480 (S)	ACB-2017	2429-054-0501
L364 Δ	Centering, FJ0482, FJ0482 (S)	ACA-9043	2489-700-1107
L365 Δ	Choke, 90 μ H, 90 μ H (S)	ACB-2018	2429-053-0108
L366	Choke, 90 μ H, 90 μ H (S)	ACB-2018	2429-053-0108
CONNECTORS			
A1	Wafer, B9P-VH	AJ-5146	3344-131-0801
B1	Wafer, B9P-VH	AJ-5147	3344-131-0704
B2	Wafer, B2P-VH (2P 3.96MM)	AJ-5148	3344-131-0102
B4	Wafer, B3P-VH (3P 3.96MM)	AJ-5149	3344-131-0209
B6	Wafer, B2P-VH (2P 3.96MM)	AJ-5148	3344-131-0102
B7	Wafer, B7P-VH	AJ-5147	3344-131-0704
M1	Wafer, B4PS-VH	AJ-5150	3344-131-0616
M2	Wafer, B5PS-VH	AJ-5151	3344-131-0519
DIODES			
D210 Δ	RGP 10G		2169-206-1009
D211	Not Used		
D212 Δ	BY228	DX-2819	2169-210-3002
D213 Δ	BA159 (ITT)	DX-2820	2169-210-1701
D214 Δ	Zener, ZPD5.1/BZX83C5V1	DX-2821	2169-404-6103
D215 Δ	RGP 10G		2169-206-1009
D216 \blacktriangle	IN4148		2169-301-4105
D217	IN4148		2169-301-4105
D218	IN4148		2169-301-4105
D219 $\Delta \blacktriangle$	Zener, ZPD6.8/BZX83C6VB	DX-2822	2169-400-6004
D220	Not Used		
D221	Not Used		

REF. NO.	DESCRIPTION	RS PART NO.	MFR'S PART NO.
D222 	Not Used		
D230			
D231	IN4148		2169-301-4105
D232	IN4148		2169-301-4105
D233 	Not Used		
D360			
D361	RGP 15M		2169-306-4207
D362 ▲	RGP 10G		2169-206-1009
D363 ▲	RGP 10G		2169-206-1009
D364	RGP 10G		2169-206-1009
D365 	Not Used		
D411			
D412	IN4148		2169-301-4105
D413	IN4002		2169-201-0601
D414	IN4002		2169-201-0601
D415	IN4148		2169-301-4105
D416 	Not Used		
D511			
D512	BAS11/BAV21	DX-2823	2169-201-0106
D513	ZENER, ZPD6.2/BZX83C6V2	DX-2824	2169-404-6200
ICs			
IC211 ▲	OP AMP, LM324N		2119-401-3609
IC212 	Not Used		
IC310			
IC311 ▲▲	Linear, TDA2593 (TFK/TOM)	MX-7536	2119-101-1903
IC312	C-mos, HCF4053BE	MX-7537	2109-303-3805
IC313 	Not Used		
IC410			
IC411 ▲▲	Linear, TDA2653A	MX-7538	2119-101-3000
IC412 	Not Used		
IC510			
IC511	C-mos, HEF4053B/HCF4053BE	MX-7537	2109-303-3805
IC512	OP AMP, LM324N		2119-401-3609
RESISTORS			
R2	Carbon, RD 1/4W 1k, ±5%		1018-277-1021

REF. NO.	DESCRIPTION	RS PART NO.	MFR'S PART NO.
R3			
I	Not Used		
R8			
R9	Carbon, RD 1/2W 1k, $\pm 5\%$		1018-377-1020
R10			
I	Not Used		
R209			
R210 Δ	Carbon, RD 1/4W 62k, $\pm 5\%$		1018-277-6239
R211	Not Used		
R212	Carbon, RD 1/2W 270, $\pm 5\%$		1018-377-2715
R213	Carbon, RD 1/4W 1k, $\pm 5\%$		1018-277-1021
R214	Carbon, RD 1/4W 180, $\pm 5\%$		1018-217-1818
R215 Δ	Carbon, RD 1/4W 27, $\pm 5\%$		1018-217-2707
R216 Δ	Metal Oxide, RS 1P 10, $\pm 5\%$		1045-427-1000
R217	Carbon, RD 1/4W 1k, $\pm 5\%$		1018-277-1021
R218	Carbon, RD 1/4W 56k, $\pm 5\%$		1018-277-5632
R219	Carbon, RD 1/4W 1k, $\pm 5\%$		1018-277-1021
R220	Carbon, RD 1/4W 3.3k, $\pm 5\%$		1018-277-3322
R221 Δ	Carbon, RD 1/2W 2.2k, $\pm 5\%$		1018-377-2229
R222 Δ	Carbon, RD 1/2W 560k, $\pm 5\%$		1018-377-5640
R223 Δ	Carbon, RD 1/2W 560k, $\pm 5\%$		1018-377-5640
R224 Δ	Carbon, RD 1/2W 560k, $\pm 5\%$		1018-377-5640
R225	Carbon, RD 1/4W 180k, $\pm 5\%$		1018-277-1845
R226	Carbon, RD 1/4W 220, $\pm 5\%$		1018-277-2211
R227	Carbon, RD 1/4W 10k, $\pm 5\%$		1018-277-1030
R228	Carbon, RD 1/4W 10k, $\pm 5\%$		1018-277-1030
R229	Carbon, RD 1/4W 1k, $\pm 5\%$		1018-277-1058
R230	Carbon, RD 1/4W 2.2k, $\pm 5\%$		1018-277-2220
R231	Carbon, RD 1/4W 100, $\pm 5\%$		1018-277-1012
R232	Carbon, RD 1/4W 470, $\pm 5\%$		1018-277-4716
R233 Δ	Metal, Oxide, ERG-2ANJ 2.7 (T), $\pm 20\%$		1043-577-2722
R234 Δ	Metal, Oxide, ERG-2ANJ 2.7 (T), $\pm 20\%$		1043-577-2722
R235	Carbon, RD 1/4W 10k, $\pm 5\%$		1018-277-1030
R236	Carbon, RD 1/4W 1.2k, $\pm 5\%$		1018-277-1225
R237	Carbon, RD 1/4W 220, $\pm 5\%$		1018-277-2211
R238	Metal, Oxide, ERG-2ANJ 2.7K (T) $\pm 20\%$		1043-577-2722
R239			
I	Not Used		
R309			
R310	Carbon, RD 1/4W 1.8k, $\pm 5\%$		1018-277-1827
R311	Not Used		
R312	Carbon, RD 1/4W 2.7k, $\pm 5\%$		1018-277-2752
R313	Carbon, RD 1/4W 6.8k, $\pm 5\%$		1018-277-6822
R314	Not Used		
R315	Carbon, RD 1/4W 22, $\pm 5\%$		1018-277-2203
R316	Carbon, RD 1/4W 10, $\pm 5\%$		1018-277-1003

REF. NO.	DESCRIPTION	RS PART NO.	MFR'S PART IO.
R317	Carbon, RD 1/4W 47k, $\pm 5\%$		1018-277-4734
R319 Δ	Carbon, RD 1/4W 3.3k, $\pm 5\%$		1018-277-3322
R320	Not Used		
R321	Carbon, RD 1/4W 68k, $\pm 5\%$		1018-277-6831
R322	Metal Film, RM 1/4W 12k, $\pm 20\%$		1048-275-1233
R323	Metal Film, RM 1/4W 15k, $\pm 20\%$		1048-275-1534
R324	Metal Film, RM 1/4W 10k, $\pm 5\%$		1048-277-1035
R325			
I	Not Used		
R330			
R331	Carbon, RD 1/4W 33k, $\pm 5\%$		1028-277-3331
R332	Carbon, RD 1/4W 27k, $\pm 5\%$		1018-277-2734
R333	Not Used		
R334	Carbon, RD 1/4W 220k, $\pm 5\%$		1018-277-2248
R335	Carbon, RD 1/4W 100k, $\pm 5\%$		1018-277-1049
R336	Carbon, RD 1/4W 27k, $\pm 5\%$		1018-277-2734
R337	Carbon, RD 1/4W 22k, $\pm 5\%$		1018-277-2239
R338	Carbon, RD 1/4W 4.7k, $\pm 5\%$		1018-277-4725
R339			
I	Not Used		
R359			
R360 Δ	Metal Oxide, ERG-2ANJ 56 (T), $\pm 20\%$		1043-577-5602
R361	Not Used		
R362	Carbon, RD 1/4W 470, $\pm 5\%$		1018-277-4716
R363	Carbon, RD 1/4W 1k, $\pm 5\%$		1018-277-1021
R364	Carbon, RD 1/4W 180, $\pm 5\%$		1018-277-1818
R365	Metal Oxide, RS 1P 180, $\pm 5\%$		1045-427-1815
R366	Carbon, RD 1/4W 100, $\pm 5\%$		1018-277-1012
R367 Δ	Carbon, RD 1/2W 1k, $\pm 5\%$		1018-377-1020
R368			
I	Not Used		
R409			
R410	Carbon, RD 1/4W 15k, $\pm 5\%$		1018-277-1535
R411	Not Used		
R412	Carbon, RD 1/2W 33k, $\pm 5\%$		1018-377-3330
R413	Carbon, RD 1/4W 4.7k, $\pm 5\%$		1018-277-4725
R414	Carbon, RD 1/4W 33K, $\pm 5\%$		1018-277-3331
R415			
I	Not Used		
R416			
R417	Carbon, RD 1/4W 3.3k, $\pm 5\%$		1018-277-3322
R418 Δ	Fusible, FMR 1/2P 1.2, $\pm 20\%$		1058-327-1292
R419	Carbon, RD 1/4W 18k, $\pm 5\%$		1018-277-1836
R420	Carbon, RD 1/2W 270, $\pm 5\%$		1018-377-2715
R421	Unused		
R422	Carbon, RD 1/4W 22k, $\pm 5\%$		1018-277-2239

REF. NO.	DESCRIPTION	RS PART NO.	MFR'S PART NO.
R423	Not Used	ARX-0178	
R424	Carbon, RD 1/4W 2.2, $\pm 5\%$		1018-277-2293
R425	Carbon, RD 1/4W 1, $\pm 5\%$		1018-277-1094
R426	Not Used		
R427	Carbon, RD 1/4W 220k, $\pm 5\%$		1018-277-2248
R428	Carbon, RD 1/4W 12k, $\pm 5\%$		1018-277-1234
R429	Carbon, RD 1/4W 1.2M, $\pm 5\%$		1018-277-1252
R430	Not Used		
R431	Carbon, RD 1/4W 39k, $\pm 5\%$		1018-277-3933
R432	Carbon, RD 1/4W 1, $\pm 5\%$		1018-277-1094
R433	Not Used		
R434 Δ	Fusible, FMR 1/2P 0.56, $\pm 5\%$		1058-327-0561
R435	Carbon, RD 1/2W 220, $\pm 5\%$		1018-377-2210
R436	Carbon, RD 1/2W 390, $\pm 5\%$		1018-377-3914
R437			
I	Not Used		
R509			
R510	Carbon, RD 1/4W 1k, $\pm 5\%$		1018-277-1021
R511	Not Used		
R512	Carbon, RD 1/4W 100k, $\pm 5\%$		1018-277-1049
R513	Carbon, RD 1/4W 100k, $\pm 5\%$		1018-277-1049
R514	Carbon, RD 1/4W 1k, $\pm 5\%$		1018-277-1021
R515	Carbon, RD 1/4W 1k, $\pm 5\%$		1018-277-1021
R516	Carbon, RD 1/4W 10k, $\pm 5\%$		1018-277-1030
R517	Carbon, RD 1/4W 10k, $\pm 5\%$		1018-277-1030
R518	Carbon, RD 1/4W 100k, $\pm 5\%$		1018-277-1049
R519	Not Used		
R520	Carbon, RD 1/4W 10k, $\pm 5\%$		1018-277-1030
R521	Not Used		
R522	Carbon, RD 1/4W 100k, $\pm 5\%$		1018-277-1049
R523	Carbon, RD 1/4W 1M, $\pm 5\%$		1018-277-1058
R524	Carbon, RD 1/4W 100k, $\pm 5\%$		1018-277-1049
R525	Not Used		
R526	Carbon, RD 1/4W 1M, $\pm 5\%$		1018-277-1058
R527	Carbon, RD 1/4W 10k, $\pm 5\%$		1018-277-1030
R528	Carbon, RD 1/4W 33k, $\pm 5\%$		1018-277-3331
R529	Carbon, RD 1/4W 82k, $\pm 5\%$		1018-277-8239
R530	Not Used		
R531	Carbon, RD 1/4W 820, $\pm 5\%$		1018-277-8211
R532	Carbon, RD 1/4W 2.2k, $\pm 5\%$		1018-277-2220
R533	Carbon, RD 1/4W 2.2k, $\pm 5\%$		1018-277-2220
R534	Carbon, RD 1/4W 100, $\pm 5\%$		1018-277-1012
R535	Carbon, RD 1/2W 220, $\pm 5\%$		1018-377-2210
R536	Carbon, RD 1/4W 330, $\pm 5\%$		1018-277-3313
R537	Carbon, RD 1/4W 56k, $\pm 5\%$		1018-277-5632
R538	Carbon, RD 1/4W 10k, $\pm 5\%$		1018-277-1030

REF. NO.	DESCRIPTION	RS PART NO.	MFR'S PART NO.
R539	Carbon, RD 1/4W 10k, ±5%		1018-277-1030
R540	Not Used		
R541	Carbon, RD 1/4W 100k, ±5%		1018-277-1049
TRANSFORMERS			
M212 △	Horiz, Drive, FM0494, FM0494 (S)	ATB-0011	2849-030-4109
M213 △ ▲	EHT, MSH9ACM02, Tripler, MSR3564A (MURATA)		2859-111-1109
M214			
I	Not Used		
M360			
M361 △	Horiz, Drive, FM0494, FM0494 (S)	ATB-0011	2849-030-4109
TRANSISTORS			
Q212	KSC1008-Y		2149-301-4309
Q213 △ ▲	MJE13005	1TR-0323	2149-302-8205
Q214 △	BU208		2149-302-8108
Q215			
I	Not Used		
Q230			
Q231	BC237B	1TR-0324	2139-302-3108
Q232			
I	Not Used		
Q360			
Q361	KSC1008-Y		2149-301-4309
Q362 △	BUX32B	1TR-0326	2149-302-8506
Q363			
I	Not Used		
Q510			
Q511	TIP30B	1TR-0327	2149-302-8700
Q512	KSC1008-Y		2149-301-4309
SEMI-FIXED VARIABLE RESISTORS			
VR212 △	Semi, CET 117A-B25k	AP-6019	1241-110-0077
VR213			
I	Not Used		
VR311			
VR312	Semi, CET 117A-B50k	AP-6020	1241-110-0059
VR313	Semi, CET 117A-B50k	AP-6020	1241-110-0059
VR314	Semi, CET 117A-B50k	AP-6020	1241-110-0059
VR315	Semi, CET 117A-B50k	AP-6020	1241-110-0059
VR316			
I	Not Used		
VR361			

REF. NO.	DESCRIPTION	RS PART NO.	MFR'S PART NO.
VR362	Wire, Wound, 68810-003 3W 68"S"	AP-7033	1296-101-0015
VR363			
I	Not Used		
VR411			
VR412	Semi, CET 117A-B10k	AP-2021	1241-110-0086
VR413	Wire, Wound, 68810-003 3W 1k	AP-7034	1296-101-0024
VR414	Semi, CET 117A-B500k	AP-6022	1241-110-0068
VR415			
I	Not Used		
VR511			
VR512	Semi, CET 92A-B5k	AP-6023	1241-108-0034
VR513	Semi, CET 92A-B5k	AP-6023	1241-108-0034
VR514	Not Used		
VR515	Semi, CET 92A-B10k	AP-6024	1241-108-0070
OTHERS			
38	Bracket-Focus SBHG-1 100 T1.0		6614-722-4105
35	Frame-Main, PCB ABS VO IVORY RF-303		6021-101-9107
29	Heatsink-Drive SPC-1 T1.0 FZ-2		5684-704-8103
30	Heatsink-Hout, SPC-1 T1.0 FZ-2		5684-704-9108
28	Heatsink-IC, SPC-1 T1.0 FZ-2		5683-705-1104
53	Screw-Tap, TH 2S-4x16 FE FZW		7128-540-1620
41	Shield-FBT SBHG-1 100 T0.5		4543-702-2106
34	Shield-Main, PCB SBHG-1 100 T0.8		4542-700-9108
	Barrier-Trans, Holder PVC Sheet T0.8		3933-700-710
	Rubber-Trans, Holder Neoprene VO BLK		6833-700-110
40	ASS'Y-PCB, Power		9102-785-2303
CAPACITORS			
C911 ▲	Ceramic AC. ECK-D3A-332KBN 1KV, ±20%		1461-121-8077
C912 ▲	Ceramic AC. ECK-D3A-332KBN 1KV, ±20%		1461-121-8077
C913 ▲	Ceramic AC. ECK-D3A-332KBN 1KV, ±20%		1461-121-8077
C914	Not Used		
C915 ▲	M, Paper, PME271M610 (0.1μF), ±20%		1535-829-1048
C916 ▲	M, Paper, PME271M610 (0.1μF), ±20%		1535-829-1048
C917 ▲	Electrolytic, CE04W 250V 220 (HS), ±20%		1603-910-2215
C918 ▲	Electrolytic, CE04W 250V 220 (HS), ±20%		1603-910-2215
C919 ▲	M, Polyester, CF922M 250V 0.22, ±5%		1517-383-2244
C920	Not Used		
C921 ▲	Electrolytic, CE04W (T) 35V 47, ±20%		1608-905-4700
C922 ▲	M, Polyester, CF922 250V 0.01, ±5%		1517-383-1036
C923 ▲	Electrolytic, CE04W (T) 35V 10, ±20%		1608-905-1006
C924 ▲	Electrolytic, CE04W (T) 50V 1, ±20%		1608-906-1090
C925 ▲	Ceramic TEMP, CC45 (T) SL 50V 100, ±5%		1407-017-1018

REF. NO.	DESCRIPTION	RS PART NO.	MFR'S PART NO.
C926 Δ	Ceramic, HK, CK45 (T) B 500V 1000, $\pm 10\%$		1417-468-1026
C927 Δ	M. Polyester, CF922 250V 0.01, $\pm 5\%$		1517-383-1036
C928 Δ	M. Polyester, CF922M 100V 0.22, $\pm 5\%$		1517-323-2248
C929 Δ	M. Polyester, DF922 63V 0.47, $\pm 5\%$		1517-313-4742
C930 Δ	M. Polyester, CF922M 250V 0.033, $\pm 5\%$		1517-383-3337
C931 Δ	Polypropylene CF922M 1600V 0.0012, $\pm 5\%$		1518-373-1227
C932 Δ	M. Polyester, CF922 63V 0.47, $\pm 5\%$		1517-313-4742
C933	Electrolytic, CE04W 16V 2200, $\pm 20\%$		1609-401-5307
C934	Ceramic HK, CK45 (T) B 500V 330, $\pm 10\%$		1417-468-3318
C935	Electrolytic, CE04W 25V 1000, $\pm 20\%$		1609-401-7200
C936	Ceramic, HK, CK45 (T) B 500V 330, $\pm 10\%$		1417-468-3318
C937	Electrolytic, CE04W 25V 1000, $\pm 20\%$		1609-401-7200
C938	Ceramic HK, CK45 (T) B 500V 330, $\pm 10\%$		1417-468-3318
C939	Electrolytic, CE04W 63V 220, $\pm 20\%$		1603-907-2215
C940	Not Used		
C941	Electrolytic, CE04W 200V 47, $\pm 20\%$		1603-915-4706
C942	Not Used		
C943 Δ	M. Polyester, CF922M 250V 0.22, $\pm 5\%$		1517-383-2244
C944 Δ	Ceramic, AC, DE 7100F 222MVAI, $\pm 20\%$		1461-137-8067
C945 Δ	Ceramic, AC, DE 7100F 222MVAI, $\pm 20\%$		1461-137-8067
C946			
I	Not Used		
C949			
C950 Δ	M. Polyester, CF922 100V 0.1, $\pm 5\%$		1517-323-1049
C951	M. Polyester, CF922 100V 0.1, $\pm 5\%$		1517-323-1049
C952 Δ	M. Polyester, CF922 250V 0.01, $\pm 5\%$		1517-383-1036
C953 Δ	Ceramic, HK, CK45 (T) B 50V 3300 $\pm 5\%$		1417-317-3320
C954	Ceramic, HK, CK45 (T) B 50V 3300 $\pm 5\%$		1416-467-4720
FUSE AND CLIP			
F911	Fuse, PBP3 ½H 0.4T SN		3164-700-1118
F911 Δ	Fuse, 3 SB2.5 (2.5A 31.BMM 250V)/S-BLOW	AHF-0028	4709-084-8300
COILS			
L911 Δ	RFI Choke, FJ0481/(S)	ACA-9045	2429-056-0107
L912 Δ	RFI Choke, FJ0481/(S)	ACA-9045	2429-056-0107
L913 Δ	Choke, 15 μ H/(S)	ACB-2019	2429-055-0104
L914 Δ	Choke, 15 μ H/(S)	ACB-2019	2429-055-0104
L915 Δ	Choke, 15 μ H/(S)	ACB-2019	2429-055-0104
CONNECTORS			
M1	PWR, M1, Assy, JSTVHR-4N(130)	AJ-5159	3054-616-9101
M2	PWR, M2, Assy, JSTVHR-5N (135)	AJ-5160	3054-617-4109

REF. NO.	DESCRIPTION	RS PART NO.	MFR'S PART NO.
M3	Wafer, B4PS-VH	AJ-5150	3344-131-0616
	PWR, Select, Assy, JST-2N (80)		3054-616-4106
M4	Wafer, B3PS-VH	AJ-5166	3344-131-0218
M5	Wafer, B2PS-VH		3344-131-0111
DIODES			
D911 ▲	BY133/GP	DX-0347	2169-306-4304
D912 ▲	BY133/GP	DX-0347	2169-306-4304
D913 ▲	BY133/GP	DX-0347	2169-306-4304
D914 ▲	BY133/GP	DX-0347	2169-306-4304
D915	Unused		
D916 ▲	RGP 10G		2169-206-1009
D917 ▲	RGP 10G		2169-206-1009
D918 ▲	1N4148		2169-301-4105
D919 ▲	BA159 (1TT)	DX-1701	2169-210-1701
D920 ▲	1N4148		2169-301-4105
D921 ▲	BTD-4	DX-0738	2169-901-0400
D922 ▲	BA159 (T)	DX-0918	2169-210-1774
D923 ▲	BA159 (T)	DX-0918	2169-210-1774
D924 ▲	BA159 (T)	DX-0918	2169-210-1774
D925 ▲	BA159 (T)	DX-0918	2169-210-1774
D926	RGP 15J (T)	DX-0921	2169-206-1771
D927	RGP 15J (T)	DX-0921	2169-206-1771
D928	RGP 15J	DX-0922	2169-206-1708
D929	RGP 15J	DX-0922	2169-206-1708
D930 ▲	RGP 15J	DX-0922	2169-206-1708
D931 ▲	1N4148		2169-301-4105
D932	Unused		
D933 ▲	1N4002		2169-201-0601
D934 ▲	1N4148		2169-301-4105
ICs			
IC911 ▲	SG 3524/IC-Linear, CA3524E	MX-7541	2119-501-3501
IC912	Regulator, TDD1512S/Linear, MC7812CT		2119-601-1306
POSISTOR			
PTC1 ▲	PTH451CO2BG200N270	ARX-0182	2199-603-1201
RESISTORS			
R911 ▲	Cement, Wire, RP 10P 4.7, ±5%		1039-727-4795
R912 ▲	Carbon, RD 1/4W 15k, ±5%		1018-277-1535
R913 ▲	Carbon, RD 1/4W 2.2k, ±5%		1018-277-2220

REF. NO.	DESCRIPTION	RS PART NO.	MFR'S PART NO.	
R914 Δ	Carbon, RD 1/4W 1k, ±5%	N-0224ELD	1018-277-1021	
R915 Δ	Carbon, RD 1/4W 2.7k, ±5%		1018-277-2725	
R916 Δ	Carbon, RD 1/4W 2.7k, ±5%		1018-277-2725	
R917 Δ	Carbon, RD 1/4W 100, ±5%		1018-277-1012	
R918 Δ	Carbon, RD 1/4W 820, ±5%		1018-277-8211	
R919 Δ	Carbon, RD 1/4W 47k, ±5%		1018-277-4734	
R920 Δ	Carbon, RD 1/4W 47k, ±5%		1018-277-4734	
R921 Δ	Carbon, RD 1/4W 10k, ±5%		1018-277-1030	
R922 Δ	Carbon, RD 1/4W 2.2k, ±5%		1018-277-2220	
R923 Δ	Metal, Oxide, ERG-2ANJ270 (T), ±20%		1043-577-2713	
R924 Δ	Carbon, RD 1/4W 100, ±5%		1018-277-1012	
R925 Δ	Carbon, RD 1/4W 180, ±5%		1018-277-1818	
R926 Δ	Carbon, RD 1/4W 220k, ±5%		1018-277-2248	
R927 Δ	Carbon, RD 1/4W 220k, ±5%		1018-277-2248	
R928 Δ	Carbon, RD 1/4W 220k, ±5%		1018-277-1021	
R929 Δ	Carbon, RD 1/4W 1k, ±5%		1018-277-1030	
R930 Δ	Carbon, RD 1/4W 10k, ±5%		1018-277-1021	
R931 Δ	Carbon, RD 1/4W 1k, ±5%		1043-927-2723	
R932 Δ	Metal, Oxide, RS 7P 2.7k ±5%		1018-277-6813	
R933 Δ	Carbon, RD 1/4W 680, ±5%		1043-577-1046	
R934 Δ	Metal, Oxide, ERG-2ANJ 100K (T), ±20%		1018-277-1021	
R935 Δ	Carbon, RD 1/4W 1k, ±5%		1018-277-2202	
R936 Δ	Carbon, RD 1/4W 22, ±5%		1018-277-2202	
R937 Δ	Carbon, RD 1/4W 4.7k, ±5%		1018-277-4725	
R938 Δ	Carbon, RD 1/4W 47k, ±5%		1018-277-4734	
R939 Δ	Carbon, RD 1/2W 680k, ±5%		1018-377-6849	
R940 Δ	Carbon, RD 1/4W 10, ±5%		1018-277-1003	
R941 Δ	Carbon, RD 1/4W 1k, ±5%		1018-277-1021	
R942	Fusible, FMR 1/2 (T) 1.2, ±5%		ARX-0182	1058-377-1297
R943 Δ	Fusible, FMR 1/2P 0.56, ±5%		ARX-0178	1058-327-0561
R944 Δ	Carbon, RD 1/4W 4.7k, ±5%		ARX-0182	1018-277-4725
R945 Δ	Carbon, RD 1/4W 4.7K, ±5%	1018-277-4725		
R946	Not Used			
I				
R949				
R950 Δ	Composition, RC1/2T330k, ±10%		1028-378-3347	
R951	Fusible, FMR1/2(T) 1.2, ±5%	ARX-0182	1058-377-1297	
TRANSFORMERS				
MM911 Δ	Horiz, Drive, FM0492/(S)	ATB-0012	2849-030-5104	
MM912 Δ	Switch Mode, FMO490/(S)	ATB-0013	2899-003-2100	
TRANSISTORS				
Q911 Δ	BC237 NPN, Silicon or	1TR-0324	2139-302-5108	

REF. NO.	DESCRIPTION	RS PART NO.	MFR'S PART NO.
Q911 ▲	KSC945-Y	1TR-0324	2139-302-7409
Q912 ▲	KSC1008-Y		2149-301-4309
Q913 ▲	KSC1008-Y		2149-301-4309
Q914 ▲	BC237B or KSC945-Y		2139-302-5108 2139-302-7409
Q915 ▲	MJE13005	1TR-0323	2149-302-8205
Q916 ▲	MJE13005	1TR-0323	2149-302-8205
Q917 ▲	BC307B	1TR-0324	2139-101-3000
Q918 ▲	BC237B or KSC945-Y		2139-302-5108 2139-302-7409
Q919 ▲	BC307B		2139-101-3000
SEMI-FIXED VARIABLE RESISTOR			
VR911 ▲	CET 92A B1K/VG086MLI 1K	AP-6025	1241-108-0113
OTHERS			
36	Bracket-Power, L SBHG-1 100 T1.0		6612-703-8102
37	Bracket-Power, L SBHG-1 100 T0.8		6612-703-7107
31	Heatsink-Power SPC-1 T1.0 FZ-2		5684-704-7108
	Screw-M, Hex M4X8 FE FZB		7093-700-1302
25	ASS'Y-PCB, Video		3003-706-3301
CAPACITORS			
C101	Ceramic HK, CK45 (T) F 50V 0.01, +80/−20%		1417-344-1032
C102	Electrolytic, CE04W (T) 35V 22, ±20%		1608-905-2205
C103	Not Used		
C104	Electrolytic, CE04W (T) 35V 10, ±20%		1608-905-1006
C105	Not Used		
C106	Electrolytic, CE04W (T) 16V 100, ±20%		1608-903-1019
C107	Not Used		
C108	Electrolytic, CE04W (T) 35V 10, ±20%		1608-905-1006
C109	Electrolytic, CE04W 350V 2.2, ±20%		1609-403-6706
C110	Electrolytic, CE04W (T) 35V 22, ±20%		1608-905-2205
C111	Electrolytic, CE04W (T) F 50V 0.01, +80/−20%		1417-344-1032
C112	Electrolytic, CE04W (T) 35V 10, ±20%		1608-905-1006
C113	Electrolytic, CE04W (T) 35V 10, ±20%		1608-905-1006
C114	Electrolytic, CE04W (T) 35V 22, ±20%		1608-905-2205
C115			
I	Not Used		
C611			
C612	Ceramic, HK, CK45 (T) F 50V 0.01, +80/−20%		1417-344-1032
C613	Ceramic, HK, CK45 (T) F 50V 0.01, +80/−20%		1417-344-1032
C614	Electrolytic, CE04W (T) 35V 10, ±20%		1608-905-1006

REF. NO.	DESCRIPTION	RS PART NO.	MFR'S PART NO.
C615	M. Polyester, MK2 0.1UF63V DC (105°C), ±20%		1517-521-1041
C616	Electrolytic, CD04W (T) 35V 22, ±20%		1608-905-2205
C617	M. Polyester, CF922M 250V 0.033, ±5%		1517-393-3337
C618			
I	Not Used		
C711			
C712	Ceramic, HK, CK45 (T) F 50V 0.01, +80/−20%		1417-344-1032
C713	Ceramic, HK, CK45 (T) F 50V 0.01, +80/−20%		1417-344-1032
C714	Electrolytic, CE04W (T) 35V 10, ±20%		1608-905-1006
C715	M. Polyester, MK2 0.1UF63V DC (105°C), ±20%		1517-521-1041
C716	Electrolytic, CE04W (T) 35W 22, ±20%		1608-905-2205
C717	M. Polyester, CF922M 250V 0.033, ±5%		1517-393-3337
C718			
I	Not Used		
C811			
C812	Ceramic, HK, CK45 (T) F 50V 0.01, +80/−20%		1417-344-1032
C813	Ceramic, HK, CK45 (T) F 50V 0.01, +80/−20%		1417-344-1032
C814	Electrolytic, CE04W (T) 35V 10, ±20%		1608-905-1006
C815	M. Polyester, MK2 0.1UF63V DC (105°C), ±20%		1517-521-1041
C816	Electrolytic, CD04W (T) 35V 22, ±20%		1608-905-2205
C817	M. Polyester, CF922M 250V 0.033, ±5%		1517-393-3337
CONNECTORS			
A1	Video Ass'y, JST VHR-9N (80)		3054-616-5101
A2	Pin Base, JST BGP-VH (GP 3.96MM)	AJ-5162	3344-131-0403
A3	Wafer, B3P-VH (3P 3.96MM)	AJ-5149	3344-131-0209
A4	Wafer, B9P-SHF/AA	AJ-5164	3344-150-7106
H1	RGB Cable Ass'y, JST VHR-6N (260)	AJ-5165	3054-616-8106
DIODES			
D101	1N4148		2169-301-4105
D102	1N4148		2169-301-4105
D103			
I	Not Used		
D611			
D612	1N4148		2169-301-4105
D613	1N4148		2169-301-4105
D614			
I	Not Used		
D711			
D712	1N4148		2169-301-4105
D713	1N4148		2169-301-4105
D714	Not Used		
D715	Not Used		

REF. NO.	DESCRIPTION	RS PART NO.	MFR'S PART NO.
D716 I	Not Used		
D811			
D812	1N4148		2169-301-4105
D813	1N4148		2169-301-4105
ICs			
IC100	Regulator, MC7805CT		2119-601-0602
IC101	TTL, SN74LS244N	MX-7539	2109-101-2408
IC102	TTL, SN74LS157N	MX-7540	2109-101-5801
IC103	TTL, SN74LS05		2109-101-9005
IC104	OP AMP, LM324N		2119-401-3609
IC105	CMOS, HCF-4077BE		2109-303-3601
IC106	TTL, SN74LS02N		2109-101-0301
IC107	SN74LS27		2109-302-1006
RESISTORS			
R101	Carbon, RD 1/4W 100, $\pm 5\%$		1018-277-1012
R102	Carbon, RD 1/4W 100, $\pm 5\%$		1018-277-1012
R103	Carbon, RD 1/4W 100, $\pm 5\%$		1018-277-1012
R104	Carbon, RD 1/4W 100, $\pm 5\%$		1018-277-1012
R105	Carbon, RD 1/4W 100, $\pm 5\%$		1018-277-1012
R106	Carbon, RD 1/4W 100, $\pm 5\%$		1018-277-1012
R107	Carbon, RD 1/4W 100, $\pm 5\%$		1018-277-1012
R108	Carbon, RD 1/4W 100, $\pm 5\%$		1018-277-1012
R109			
I	Not Used		
R110			
R111	Carbon, RD 1/4W 1.2k, $\pm 5\%$		1018-277-1225
R112	Carbon, RD 1/4W 1.2k, $\pm 5\%$		1018-277-1225
R113	Carbon, RD 1/4W 1.2k, $\pm 5\%$		1018-277-1225
R114	Carbon, RD 1/4W 1.2k, $\pm 5\%$		1018-277-1225
R115	Carbon, RD 1/4W 1.2k, $\pm 5\%$		1018-277-1225
R116	Carbon, RD 1/4W 1.2k, $\pm 5\%$		1018-277-1225
R117	Carbon, RD 1/4W 1.2k, $\pm 5\%$		1018-277-1225
R118	Carbon, RD 1/4W 1.2k, $\pm 5\%$		1018-277-1225
R119			
I	Not Used		
R120			
R121	Carbon, RD 1/4W 680, $\pm 5\%$		1018-277-6813
R122	Carbon, RD 1/4W 680, $\pm 5\%$		1018-277-6813
R123	Carbon, RD 1/4W 680, $\pm 5\%$		1018-277-6813
R124	Carbon, RD 1/4W 680, $\pm 5\%$		1018-277-6813
R125	Not Used		

REF. NO.	DESCRIPTION	RS PART NO.	MFR'S PART NO.
R126	Carbon, RD 1/4W 680, $\pm 5\%$		1018-277-6813
R127	Carbon, RD 1/4W 680, $\pm 5\%$		1018-277-6813
R128	Carbon, RD 1/4W 680, $\pm 5\%$		1018-277-6813
R129	Not Used		
R130	Carbon, RD 1/4W 1.2k, $\pm 5\%$		1018-277-1225
R131	Carbon, RD 1/4W 2.2k, $\pm 5\%$		1018-277-2220
R132	Carbon, RD 1/4W 5.6k, $\pm 5\%$		1018-277-5623
R133	Carbon, RD 1/4W 2.2k, $\pm 5\%$		1018-277-2220
R134	Carbon, RD 1/4W 2.2k, $\pm 5\%$		1018-277-2220
R135	Carbon, RD 1/4W 2.2k, $\pm 5\%$		1018-277-2220
R136	Carbon, RD 1/4W 33, $\pm 5\%$		1018-277-3304
R137	Carbon, RD 1/4W 33, $\pm 5\%$		1018-277-3304
R138	Metal, Film, RM 1/4W 1.5k, $\pm 1\%$		1048-275-1525
R139	Carbon, RD 1/4W 2.2k, $\pm 5\%$		1018-277-2220
R140	Metal, Film, RM 1/4W 820, $\pm 1\%$		1048-275-8210
R141	Carbon, RD 1/4W 2.2k, $\pm 5\%$		1018-277-2220
R142	Carbon, RD 1/4W 1k, $\pm 5\%$		1018-277-1021
R143	Not Used		
R144	Carbon, RD 1/4W 1.5k, $\pm 5\%$		1018-277-1526
R145	Carbon, RD 1/4W 33, $\pm 5\%$		1018-277-3304
R146	Carbon, RD 1/4W 3.3k, $\pm 5\%$		1018-277-3322
R147	Carbon, RD 1/4W 5.6k, $\pm 5\%$		1018-277-5623
R148			
I	Not Used		
R150			
R151	Carbon, RD 1/4W 10k, $\pm 5\%$		1018-277-1030
R152			
I	Not Used		
R159			
R160	Carbon, RD 1/4W 56k, $\pm 5\%$		1018-277-5632
R161	Carbon, RD 1/4W 10k, $\pm 5\%$		1018-277-1030
R162	Carbon, RD 1/4W 10k, $\pm 5\%$		1018-277-1030
R163	Carbon, RD 1/4W 10k, $\pm 5\%$		1018-277-1030
R164	Not Used		
R165	Carbon, RD 1/4W 1k, $\pm 5\%$		1018-277-1021
R166	Carbon, RD 1/4W 1k, $\pm 5\%$		1018-277-1021
R167			
I	Not Used		
R172			
R173	Carbon, RD 1/4W 33, $\pm 5\%$		1018-377-3303
R174	Carbon, RD 1/4W 33, $\pm 5\%$		1018-377-3303
R175			
I	Not Used		
R179			
R180	Carbon, RD 1/4W 12k, $\pm 5\%$		1018-277-1234
R181	Not Used		

REF. NO.	DESCRIPTION	RS PART NO.	MFR'S PART NO.
R182			
I	Not Used		
R609			
R610	Carbon, RD 1/4W 3.3k, $\pm 5\%$		1018-277-3322
R611	Not Used		
R612	Carbon, RD 1/4W 470, $\pm 5\%$		1018-277-4716
R613	Carbon, RD 1/4W 470, $\pm 5\%$		1018-277-4716
R614	Carbon, RD 1/4W 1.5k, $\pm 5\%$		1018-277-1526
R615	Metal, Film, RM 1/4W 464, $\pm 1\%$		1048-275-0052
R616	Carbon, RD 1/4W 1.5k, $\pm 5\%$		1018-277-1526
R617	Metal, Film, RM 1/4W 464, $\pm 1\%$		1048-275-0052
R618	Metal, Film, RM 1/4W 1.78k, $\pm 1\%$		1048-275-0061
R619	Metal, Film, RM 1/4W 1.78k, $\pm 1\%$		1048-275-0061
R620	Not Used		
R621	Carbon, RD 1/4W 820, $\pm 5\%$		1018-277-8211
R622	Carbon, RD 1/4W 560, $\pm 5\%$		1018-277-5614
R623	Metal, Oxide, ERG-2ANJ 2.7k (T), $\pm 20\%$		1043-577-2722
R624	Metal, Oxide, ERG-2ANJ 2.7k (T), $\pm 20\%$		1043-577-2722
R625	Carbon, RD 1/4W 68, $\pm 5\%$		1018-277-6804
R626	Metal, Oxide, ERG-2ANJ 6.8k (T), $\pm 20\%$		1043-577-6829
R627	Metal, Oxide, ERG-2ANJ 6.8k (T), $\pm 20\%$		1043-577-6829
R628	Carbon, RD 1/4W 330, $\pm 5\%$		1018-277-3313
R629	Carbon, RD 1/4W 100, $\pm 5\%$		1018-277-1012
R710	Carbon, RD 1/4W 3.3k, $\pm 5\%$		1018-277-3322
R711	Not Used		
R712	Carbon, RD 1/4W 470, $\pm 5\%$		1018-277-4716
R713	Carbon, RD 1/4W 470, $\pm 5\%$		1018-277-4716
R714	Carbon, RD 1/4W 1.5k, $\pm 5\%$		1018-277-1526
R715	Metal, Film, RM 1/4W 470, $\pm 5\%$		1048-277-4711
R716	Carbon, RD 1/4W 1.5k, $\pm 5\%$		1018-277-1526
R717	Metal, Film, RM 1/4W 470, $\pm 5\%$		1048-277-4711
R718	Metal, Film, RM 1/4W 1k, $\pm 1\%$		1048-275-1020
R719	Metal, Film, RM 1/4W 1k, $\pm 1\%$		1048-275-1020
R720	Not Used		
R721	Carbon, RD 1/4W 820, $\pm 5\%$		1018-277-8211
R722	Carbon, RD 1/4W 560, $\pm 5\%$		1018-277-5614
R723	Metal, Oxide, ERG-2ANJ 2.7k (T), $\pm 20\%$		1043-577-2722
R724	Metal, Oxide, ERG-2ANJ 2.7k (T), $\pm 20\%$		1043-577-2722
R725	Carbon, RD 1/4W 68, $\pm 5\%$		1018-277-6804
R726	Metal, Oxide, ERG-2ANJ 6.8k (T), $\pm 20\%$		1043-577-6829
R727	Metal, Oxide, ERG-2ANJ 6.8k (T), $\pm 20\%$		1043-577-6829
R728	Carbon, RD 1/4W 330, $\pm 5\%$		1018-277-3313
R729	Carbon, RD 1/4W 100, $\pm 5\%$		1018-277-1012
R730			
I	Not Used		
R809			

REF. NO.	DESCRIPTION	RS PART NO.	MFR'S PART NO.
R810	Carbon, RD 1/4W 3.3k, $\pm 5\%$		1018-277-3322
R811	Not Used		
R812	Carbon, RD 1/4W 470, $\pm 5\%$		1018-277-4716
R813	Carbon, RD 1/4W 470, $\pm 5\%$		1018-277-4716
R814	Carbon, RD 1/4W 1.5k, $\pm 5\%$		1018-277-1526
R815	Metal, Film, RM 1/4W 470, $\pm 5\%$		1048-277-4711
R816	Carbon, RD 1/4W 1.5k, $\pm 5\%$		1018-277-1526
R817	Metal, Film, RM 1/4W 470, $\pm 5\%$		1048-277-4711
R818	Metal, Film, RM 1/4W 1k, $\pm 1\%$		1048-275-1020
R819	Metal, Film, RM 1/4W 1k, $\pm 1\%$		1048-275-1020
R820	Not Used		
R821	Carbon, RD 1/4W 820, $\pm 5\%$		1018-277-8211
R822	Carbon, RD 1/4W 560, $\pm 5\%$		1018-277-5614
R823	Metal, Oxide, ERG-2ANJ 2.7k (T), $\pm 20\%$		1043-577-2722
R824	Metal, Oxide, ERG-2ANJ 2.7k (T), $\pm 20\%$		1043-577-2722
R825	Carbon, RD 1/4W 68, $\pm 5\%$		1018-277-6804
R826	Metal, Oxide, ERG-2ANJ 6.8k (T), $\pm 20\%$		1043-577-6829
R827	Metal, Oxide, ERG-2ANJ 6.8k (T), $\pm 20\%$		1043-577-6829
R828	Carbon, RD 1/4W 330, $\pm 5\%$		1018-277-3313
R829	Carbon, RD 1/4W 100, $\pm 5\%$		1018-277-1012
TRANSISTORS			
Q101	BC307B		2139-101-3000
Q102	BC237B	1TR-0324	2139-302-5108
Q103	BC237B	1TR-0324	2139-302-5108
Q104	BC237B	1TR-0324	2139-302-5108
Q105	BC307B		2139-101-3000
Q106	BC307B		2139-101-3000
Q107	BC237B		2139-302-5108
Q108			
I	Not Used		
Q611			
Q612	MPS2369	1TR-0324	2159-301-2304
Q613	MPS2369		2159-301-2304
Q614	BC237B	1TR-0324	2139-302-5108
Q615	Not Used		
Q616	KSC1507-O	2SC-15070	2139-301-2304
Q617	MPS2369		2159-301-2304
Q618	KSC1507-O	2SC-15070	2139-301-2304
Q619			
I	Not Used		
Q711			
Q712	MPS2369		2159-301-2304
Q713	MPS2369		2159-301-2304
Q714	BC237B	1TR-0324	2139-302-5108

REF. NO.	DESCRIPTION	RS PART NO.	MFR'S PART NO.
Q715	Not Used		
Q716	KSC1507-O	2SC-15070	2139-301-2304
Q717	MPS2369		2159-301-2304
Q718	KSC1507-O	2SC-15070	2139-301-2304
Q719			
I	Not Used		
Q811			
Q812	MPS2369		2159-301-2304
Q813	MPS2369		2159-301-2304
Q814	BC237B	1TR-0323	2139-302-5108
Q815	Not Used		
Q816	KSC1507-O	2SC-15070	2139-301-2304
Q817	MPS2369		2159-301-2304
Q818	KSC1507-O	2SC-15070	2139-301-2304
SEMI-FIXED RESISTORS			
VR614	63000-000B470PREH	AP-6015	1246-101-1316
VR615			
I	Not Used		
VR711			
VR712	63000-000B2.2KPREH	AP-6016	1246-101-1325
VR713	63000-000B2.2KPREH	AP-6016	1246-101-1325
VR714	63000-000B470PREH	AP-6015	1246-101-1316
VR715			
I	Not Used		
VR811			
VR812	63000-000B2.2KPREH	AP-6016	1246-101-1325
VR813	63000-000B2.2KPREH	AP-6016	1246-101-1325
VR814	63000-000B470PREH	AP-6015	1246-101-1316
OTHERS			
26	Clamp-Cable A1050S H14 T0.8		6634-704-2109
24	Frame-V, PCB SBHG-1 100 T1.0		6122-701-2106
27	Heatsink-V, Out SPC-1 T1.0 FZ-2		5684-705-0106
58	Screw-Tap, TH 2S-4X8 FE FZY		7128-540-0810
23	Shield-Top SBC-1 FZW T0.5		4543-702-3101
16	ASS'Y-PCB, CRT Socket		9102-785-2604
CAPACITORS			
C1	M. Polyester CF922M 630V 0.022, ±5%		1517-353-2232
C2	Not Used		
C3	M. Polyester, CF922M 630V 0.022, ±5%		1517-353-2232
C4	M. Polyester, CF922M 630V 0.022, ±5%		1517-353-2232

REF. NO.	DESCRIPTION	RS PART NO.	MFR'S PART NO.
C5	Electrolytic, CE04W 350V 2.2, ±20%		1609-403-6706
COIL			
21 Δ	Coil-Degaussing, DCR; 210MM L; 19MH	ACA-9044	2479-013-6109
CONNECTORS			
B1	Grid, Cable Ass'y JST VHR-7N (365)	AJ-7122	3045-616-3101
B2	Vert, DY Ass'y JST VHR-2N (310)		3054-616-6106
B3	Unused		
B4	Hor, DY Ass'y JST VHR-3N (310)		3054-617-0109
H1	Pin Base. JST BGP-VH (6P 3.96MM)		3344-131-0403
D1	Diode-1N4007		2169-201-1208
15	Ground CRT Ass'y, 3/16/0, 12%1190 Wire TBC		3054-221-9101
H5	Pin-GT, 14.2MM 2.35P1		3124-700-8104
H4 Δ	Socket-CRT, HPS0145-01-500		3354-704-0107
RESISTORS			
R1	Composition, RC 1/2W 330, ±5%		1028-378-3310
R2	Composition, RD 1/2W 330, ±5%		1028-378-3310
R3	Composition, RC 1/2W 330, ±5%		1028-378-3310
R4	Carbon, RD 1/4W 150k, ±5%		1018-277-1544
R5	Composition, RC 1/2W 1k, ±10%		1028-378-1028
R6	Composition, RD 1/2W 10k, ±10%		1028-378-1037
R7	Carbon, RD 1/2W 680k, ±5%		1018-377-6849
R8	Carbon Film, RD 1/2W 4.7, ±5%		1018-377-4751
RT1	VR-Semi, 60302-052 BIM-P		1246-101-1282
OTHERS			
18	Bracket-Connector SPC-1 T1.5 FZW		6613-709-1102
20	Clamper-Wire SBHG-1 100 T1.0		6634-703-8106
52	Screw-TAP, TH 2S-5X20 FE FZY		7128-550-2015
17	Washer-GUM, CRT Neoprene 11B BLK		6834-701-1101
19	Washer-Spring SPC-1 T1.6 FZYZ		7334-700-7104
43	ASS'Y-PCB, Terminal Board		9102-785-2507
CONNECTORS			
A3	Sub Cont Ass'y, JST VHR-3N (330)		3054-616-7101
B7	Rear Ass'y, JST VHR-7N (120)		3054-617-3104
	PWR S/W Ass'y, JST-VHR-4N (400)		3054-616-1101
RESISTORS			
R1	Carbon, RD 1/4W 1k ±5%		1018-277-1021

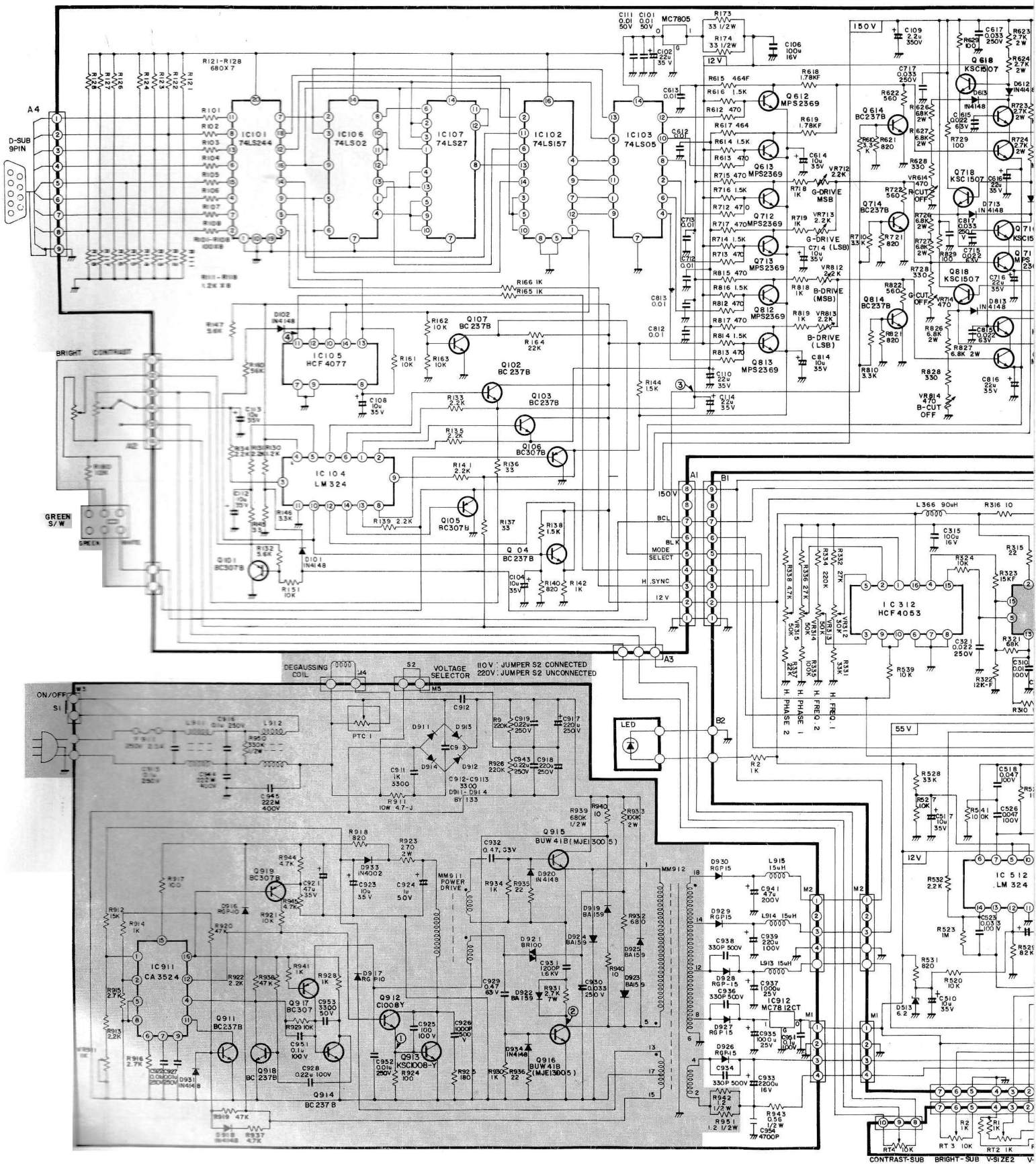
REF. NO.	DESCRIPTION	RS PART NO.	MFR'S PART NO.
R2	Carbon, RD 1/4W 1k, ±5% Switch-Push, ESB 8213V	AS-7005	1018-277-1021 3529-702-7102
VARIABLE RESISTORS			
RT1	Round, SGL, 18RN03-20SQ-B1 k	AP-7031	1201-105-9012
RT2	Round, SGL, 18RN03-20SQ-B1 k	AP-7031	1201-105-9012
RT3	Semi, 60224-001B10 k-S	AP-6018	1246-101-1273
RT4	Semi, 60224-001B10 k-S	AP-6018	1246-101-1273
OTHERS			
7	Ass'y-PCB, LED, 19X26 T1.6 CONN-LED Ass'y, JST VHR-2N (500) Led, KLG208E Ass'y-Control	AL-1028	3003-706-3505 3054-617-2109 2309-610-0907 9202-806-9305
43	Terminal-Board ABS VO BGE	AHC-0405	3302-700-3305
44	Holder-Cord PP VO BLK Screw-Tap, TH 2S-4X12 FE FZW		6603-703-0104 7128-540-1222
CONNECTORS			
	Control Ass'y, JST VHR-GN (580) Ass'y Green S/W, STP-LV (540)		3054-617-5104 3054-616-2106
SWITCHES			
RT1	VR-Round, SGL, 18SN 20F B10K		1201-102-0054
RT2	Push, Pull, 63253-100 10K PREH	AS-7007	3529-702-9102
S3	Push, NPB-PB21S	AS-7006	3529-101-0085
ASS'Y-CONTROL			
12	Knob-Green Color ABS HB GRN	AK-0584	7624-503-2104
13	Knob-Control ABS HB BLK25	AK-0583	7624-138-8106
14	Bracket-Control SBHG-1 100 T1.0		6614-722-6105
ASS'Y-CABINET, FRONT			
1	Cabinet-Front ABS VO BGE		6001-781-0405
2	Door-Control ABS VO BGE		6053-704-5400
3	Badge-Brand		8023-700-5104
4	Inlay-Control A1050S H14 T0.3		7713-705-6507
5	Inlay-Power A1050S H14 T0.3		7714-721-4504
8	Barrier-Cover PVC Sheet T0.8 VO BLK		3904-701-7106
11	Bracket-Power SBHG-1 100 T1.0		6614-722-8105

REF. NO.	DESCRIPTION	RS PART NO.	MFR'S PART NO.
9	Knob-Main, Power ABS VO BGE	AK-0585	7624-144-3702
10	Nut-Speed STC T0.7 BLK		7223-700-2104
57	Screw-Tap, PH 2S-3X10 FE FZY		7148-530-1018
CRT + DY			
▲▲	CRT+DY, M34JCA 30X15/3709B22 (ST)-TC01/ E2894B22-TC53ETHT (G3Y)	AXX-8024	2109-231-3203
ASS'Y-CABINET, BACK			
45	Cabinet-Back ABS VO BGE	AZ-0158	6001-782-0417
46	Inlay-Rating A1050S H14 T0.3	ART-0320	7712-701-6100
47	Holder-Button Nylon VO 66 WHT		6604-707-1108
54	Screw-Tap, TH 2S-4X12 FE FZW 1 VR		7124-700-3103
55	Screw-Tap, TH 2S-4x16 FE FZW 1 VR		7124-700-2108
HARDWARE KIT			
49	Screw-Tap, RH 2S-3X8 FE FZY		7148-530-0819
50	Screw-RH +M3X6 FE FZY		7048-130-0616
51	Screw-Tap, RH 2S-4X12 FE FZY		7148-540-1213
58	Screw-Tap, RH 2S-4X8 FE FZY		7148-540-0810
59	Washer Star, A-P13.0 FE FZY		7328-103-0019

Catalog Number: 25-4035


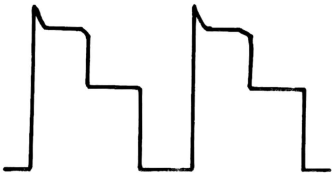
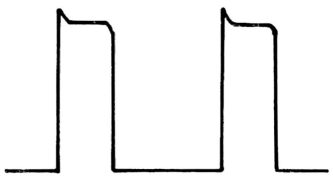
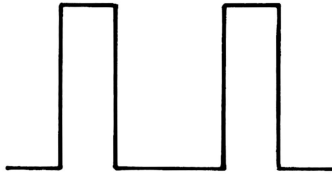
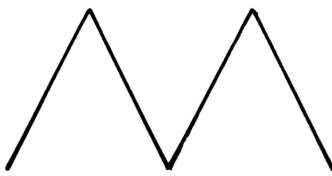
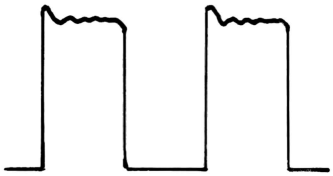
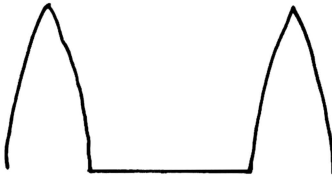

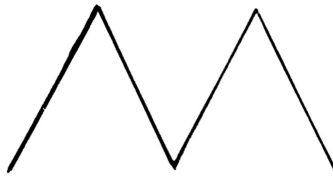
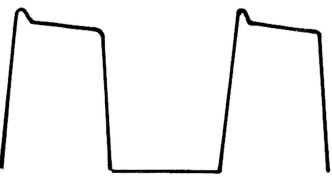
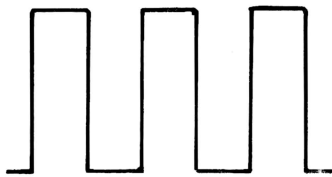
WARNING: THIS MONITOR CONTAINS SAFETY CRITICAL COMPONENTS. ALL PARTS SHOWN IN THE SHADED AREAS OF THE SCHEMATIC ARE SAFETY CRITICAL. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS. REFER TO PARTS LIST FOR EXACT REPLACEMENTS.

AVERTISSEMENT: "CE RECEPTEUR EST EQUIPE DE COMPOSANTS CRITIQUES POUR LA SECURITE. TOUTES LES PIECES INDIQUEES DANS LES ZONES OMBREES DU SCHEMA SONT CRITIQUES POUR LA SECURITE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL, NE REMPLACEZ LES COMPOSANTS DONT LE FONCTIONNEMENT EST POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT. CONSULTEZ LA NOMENCLATURE DES PIECES POUR TROUVER LES PIECES DE RECHANGE EXACTES."






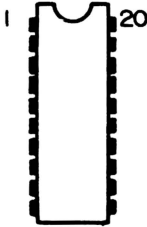
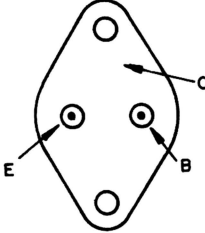
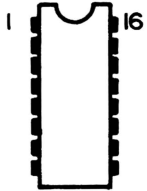
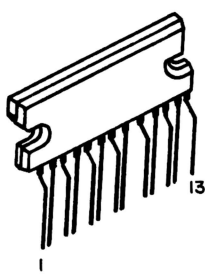
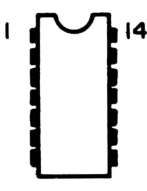




WAVEFORMS

		
① 50Vp-p	② 370Vp-p	③ 12Vp-p
		
④ 5Vp-p	⑤ 3.5Vp-p	⑥ 25Vp-p
		
⑦ 700Vp-p	⑧ 2.5Vp-p	⑨ 5.5Vp-p
		
⑩ 700Vp-p	⑪ 40Vp-p	

SEMICONDUCTOR LEAD IDENTIFICATION

PARTS	DESCRIPTION	REF. NO.	PARTS	DESCRIPTION	REF. NO.
	BC307B BC237B	Q919, Q917, Q105 Q106, Q101 Q911, Q918, Q914 Q107, Q614, Q714 Q814, Q103, Q102 Q104, Q231		MPS2369	Q617, Q717, Q612, Q613, Q713, Q812, Q817 Q712 Q813
	KSC1008-Y	Q912, Q913 Q512, Q212, Q361		MC7805CT MC7812CT	IC100 IC912
	MJE13005 TIP30B KSC1507-O	Q213, Q916, Q915 Q511 Q616, Q716, Q816 Q618, Q718, Q818		SN74LS244N	IC101
	BUX32B BU208	Q362 Q214		SN74LS157N CA3524E HCF4053BE/ HEF4053B TDA2593	IC102 IC911 IC511, IC312 IC311
	TDA2653A	IC411		SN74LS27N SN74LS02N SN74LS05N HCF4077BE LM324N	IC107 IC106 IC103 IC105 IC104, IC512 IC211

RADIO SHACK
A DIVISION OF TANDY CORPORATION
FORT WORTH, TEXAS 76102