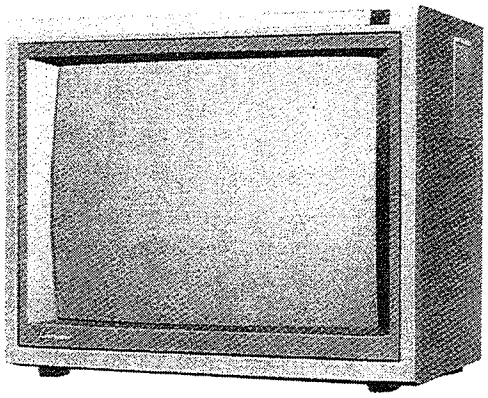
1161

OCTOBER
1987

MITSUBISHI Service Manual

COLOR MONITOR
SX1 CHASSIS FAMILY



MODEL
AM-3501R

CAUTION

Before servicing this chassis, it is important that the serviceman reads the "SAFETY PRECAUTIONS" and "PRODUCT SAFETY NOTICE" in this service manual.

SPECIFICATIONS

- **Power Input** AC120V60Hz
- **Power Consumption** 320W
- **Signal**
  - VIDEO Input : EXT1, EXT2, EXT3, VTR, S−Y/C, D-SUB 25Pin
  - Output : THROUGH (EXT1), SWITCHED VTR, D-SUB 25Pin
  - RGB TTL Input : D-SUB 9Pin (8/16/64/AUTO Color/Monochrome)
  - RGB ANALOG Input : D-SUB 25Pin/BNC (Separate Sync/Sync on Green)
  - Output : BNC (Through)
  - Super Impose : VIDEO+ANALOG (Ys/Ym/AV)
- **Speaker** 4"×6"Oval type, 8ohm 2pcs.
- **Picture Tube** A89JVU81X 110° Deflection
- **Picture High Voltage** 30KV (at 0mA)
- **Cabinet Dimensions** 755mm (H) ×910mm (W) ×594mm (D) 29-3/4" (H) ×35-7/8" (W) ×23-3/8" (D)
- **Weight (Net)** 110kg 242.5lbs
- **Special Features**
  - Automatic tracking of wide range horizontal and vertical scanning frequencies.
    f (H) : 15.5~35KHz
    f (V) : 40~70Hz
  - Size and position of the screen can be adjusted with external controls.
  - High-resolution 35"color CRT, 1.0mm stripe pitch.
  - Supports wide variety of input signals such as, video composite, RGB TTL, RGB ANALOG and Super Impose.
  - Diverse displays are obtainable by input of various signals such as composite video, RGB TTL, analog and monochrome.

MITSUBISHI ELECTRIC SALES AMERICA, INC.
5757 Plaza Drive P.O. Box 6007 Cypress, California 90630-0007

SAFETY PRECAUTIONS

NOTICE. Observe all cautions and safety related notes located inside the receiver cabinet and on the receiver chassis.

WARNING

1. Operation of this receiver, outside the cabinet or with the cover removed, involves a shock hazard from the receiver power supplies. Work on the receiver should not be attempted by anyone who is not thoroughly familiar with precautions necessary when working on high-voltage equipment.
2. Do not install, remove or handle the picture tube in any manner unless shatter-proof goggles are worn. People not so equipped should be kept away while the picture tube is being handled. Keep the picture tube away from the body while handling.

X-RADIATION WARNING

The surface of the picture tube may generate X-Radiation. Precaution during service and, if possible, the use of a lead apron is recommended for shielding while handling.

When replacing the picture tube, use only the designated replacement part since it is a critical component with regard to X-Radiation as noted above. (No high-voltage adjustments are provided.) The high-voltage specification is described on page 1.

LEAKAGE CURRENT CHECK

Before returning the receiver to the customer, it is recommended that leakage current be measured according to the following methods.

1. Cold Check

With the AC plug removed from the 120V AC source, place a jumper across the two AC plug prongs. Turn the receiver AC switch on. Using an ohm-meter, connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (antennas, handle bracket, metal cabinet, screwheads, metal overlays, control shafts, etc.),particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistance reading of 1 megohm. Any resistance below this value indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

2. Hot Check

The test sequence, with reference to the measuring circuit in Fig.1, is as follows:

(1) With switch S1 open, the receiver is to be connected to the measuring circuit. Immediately after connection, the leakage current is measured using both positions of switch S2, and with the switching devices in the receiver in all of their operating positions.

(2) Switch S1 is then to be closed, energizing the receiver, and immediately after closing the switch, the leakage current is to be measured using both positions of switch S2, and with the switching devices in the receiver in all of their operating positions.

Current measurements of items (1) and (2) are to be repeated after the receiver has reached thermal stabilization.

The leakage current shall not be more than 0.5 milliampere.

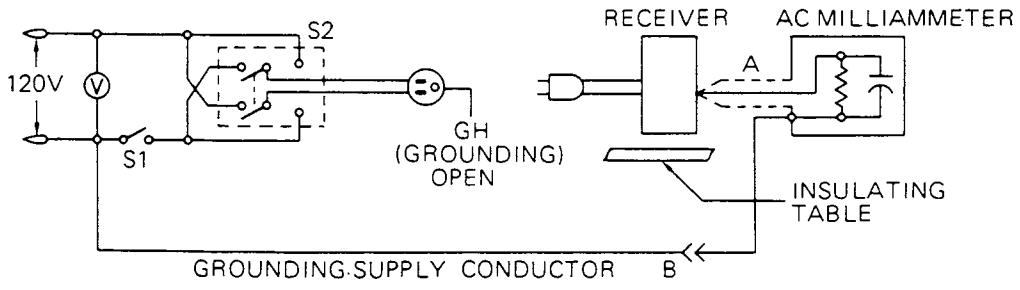


Fig. 1

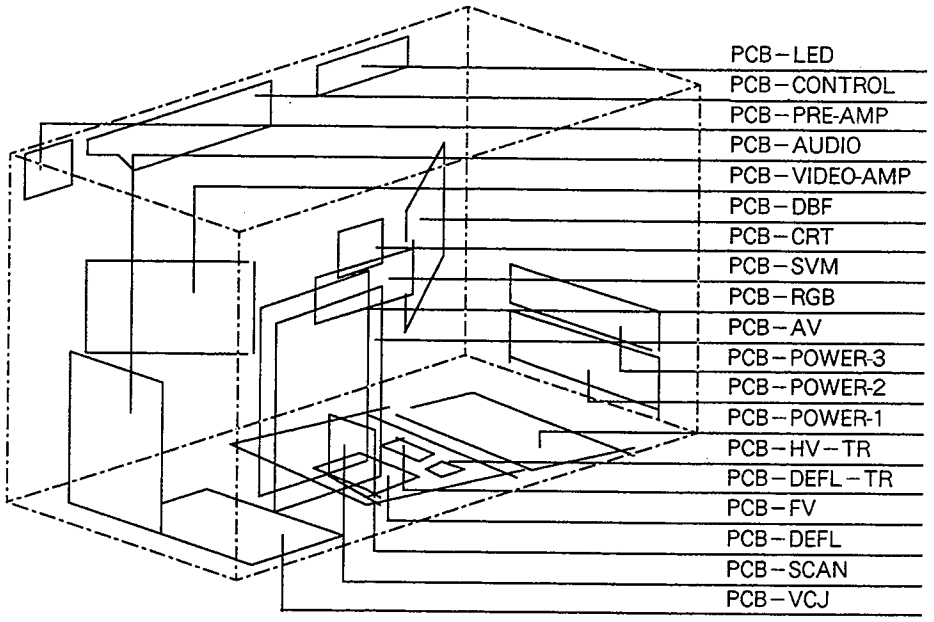
PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in television receivers have special safety related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this service manual. Electrical components having such features are identified by shading on the schematic diagram and the parts list of this service manual and by marking on the supplementary sheet for this chassis to be issued subsequently. Therefore replacements for any safety parts should be identical in value and characteristics.

DISASSEMBLY PROCEDURES

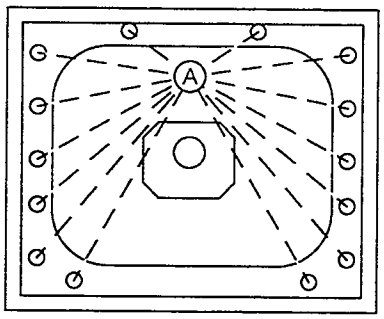
REMOVAL OF PCB

- AUDIO-PCB
- VIDEO-AMP-PCB
- DBF-PCB
- CRT-PCB
- RGB & AV-PCB
- POWER-PCB
- DEFL-PCB
  (HV-TR-PCB)
  (DEFL-TR-PCB)
  (FV-PCB)
- SCAN-PCB
- VCJ-PCB



FRONT-MASK REMOVAL

1. Remove the 14 screws Ⓐ around the perimeter of the mask, as shown in Figure 2.
2. Unplug all inter-connecting cables to the assemblies mounted on the FRONT-MASK, and open all ties securing the cables.
3. Tilt the top of the FRONT-MASK forward and then lift the mask from the cabinet.



MASK REMOVAL

Figure 2

PICTURE TUBE REPLACEMENT

GENERAL

In some instances, after picture tube replacement, Purity and Convergence may require adjustment. If it is required, follow the procedure described in the alignment section of this manual.

CAUTION: Safety goggles must be worn at all times when handling the picture tube.

CAUTION: The picture tube is extremely sensitive to mechanical shock, therefore care must be taken at all times when handling the picture tube.

SUGGESTED TOOLS AND JIGS

The following tools and jigs are useful for replacement and final adjustment of the picture tube, and are available through the National Parts Department.

1. T TYPE BOX DRIVER #859C35802 (Figure 1)

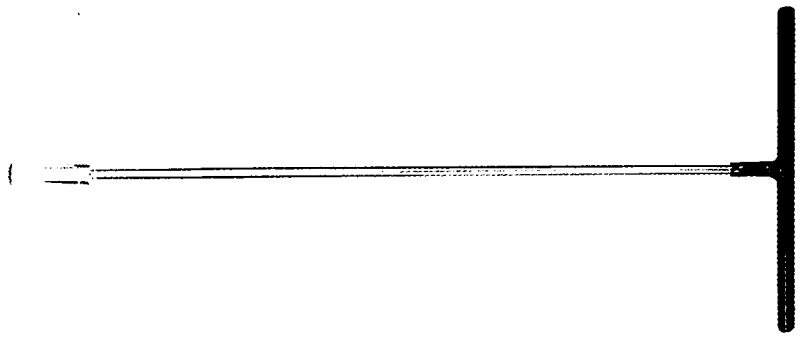


Figure 1

2. CRT-JACK-Part #859C35801 (Figure 2)
   Capable of supporting the picture tube and adjusting its position in the cabinet.

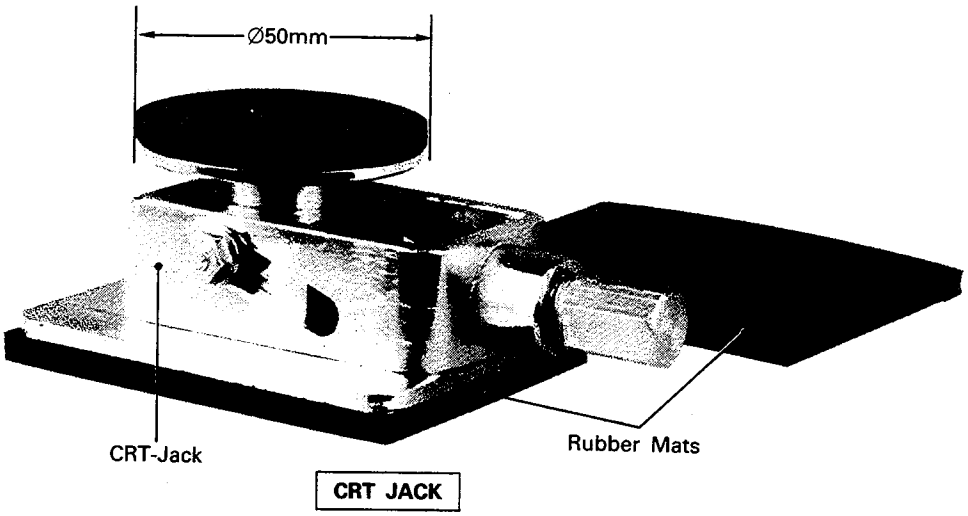


Figure 2

PICTURE TUBE REMOVAL PROCEDURE

1. Remove the 17 back screws and remove the Cabinet Back.

2. Carefully pierce the silicon adhesive at the outer edge of the second anode cover (Figure 3) and discharge the picture tube to the CRT Shield.

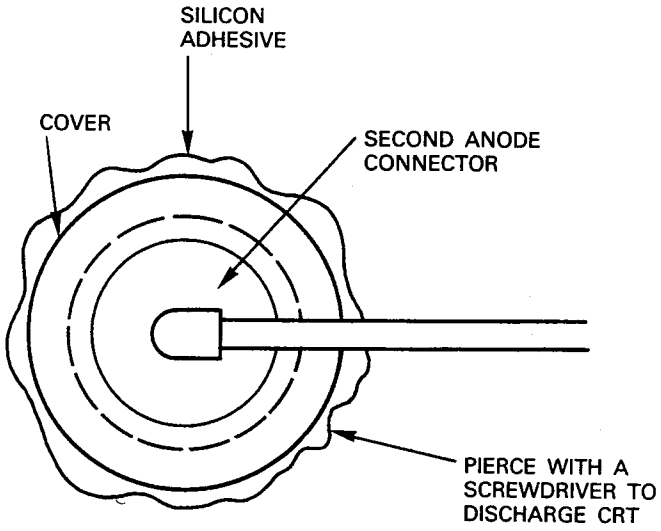


Figure 3

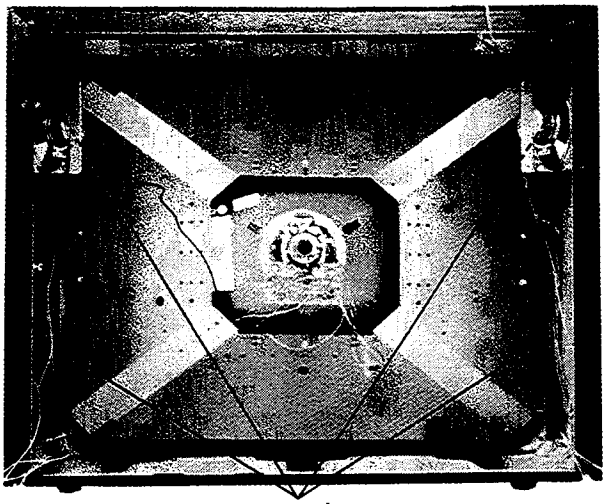
3. Use a thin blade tool to carefully cut the silicon adhesive around the outer perimeter of the second anode connector cover and the surface of the CRT.

4. Peel the cover free of the CRT and the second anode connector. Remove any residual silicon adhesive between the second anode connector insulation and the CRT.

5. Disconnect the second anode connector from the CRT.

6. Remove the PCBs as described in the Disasembly Procedure. (Page 3)

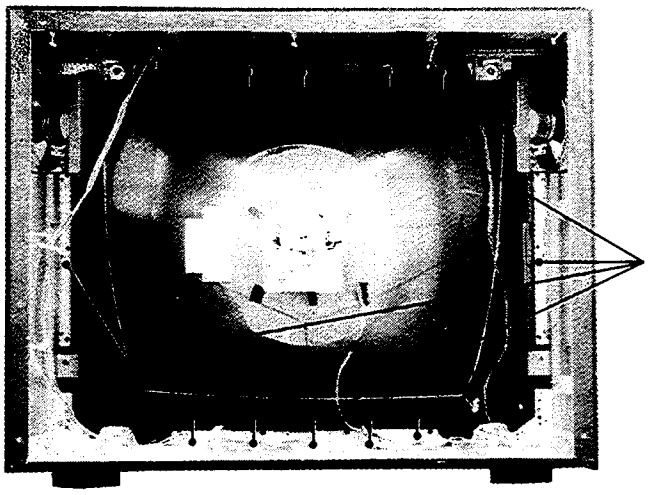
7. Remove the 4 Hex nuts securing the SHIELD-COVER and remove the SHIELD-COVER from the cabinet. (Figure 4)



Shield cover securing screws

Figure 4

8. Remove the 15 screws securing the FRONT-MASK and remove the FRONT-MASK. (Figure 5)



Front mask securing screws

Figure 5

9. Remove the single mounting screw from each CRT-HOLDER (L & R), but leave the Holders L & R in place. (Figure 6)

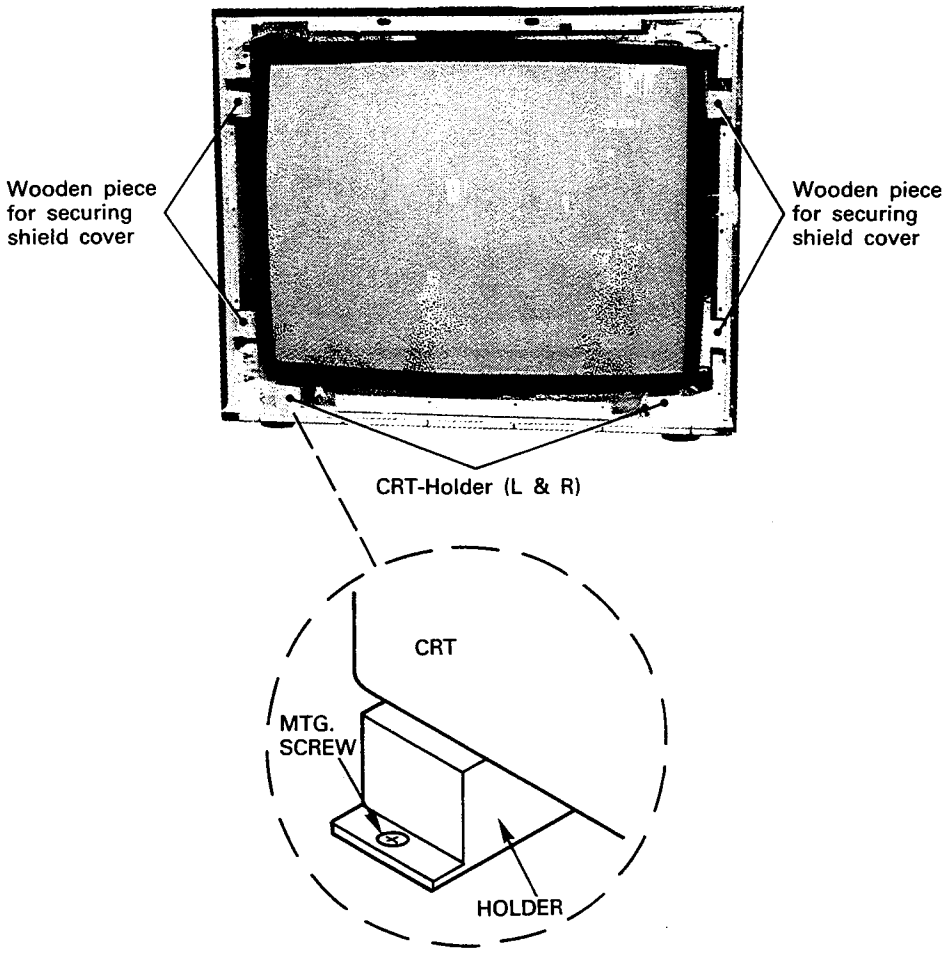


Figure 6

10. Place a thick cushion or slab of foam rubber on the floor and carefully lie the TV set on its face, taking care not to strike or scratch the face of the picture tube.

11. Remove the 4 picture tube mounting hex nuts and washers. (Figure 7)

12. Lift the cabinet from the picture tube. The CRT-HOLDERS (L & R) will fall free when the cabinet is removed. Be sure to lift the cabinet high enough to clear the neck of the CRT.

    Note: If the mounting screws have not been removed from the two CRT-HOLDERS, the cabinet cannot be removed from the CRT.

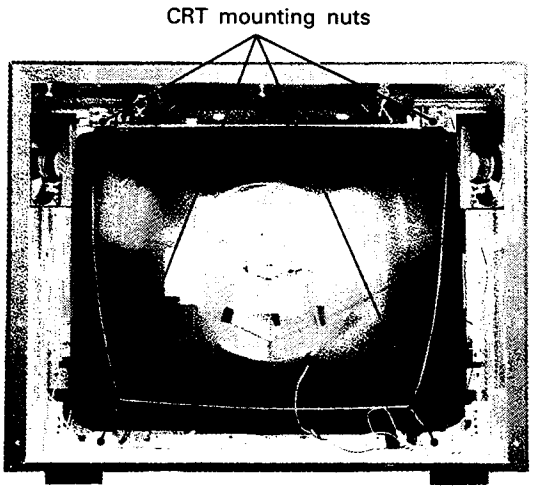


Figure 7

13. Remove the CRT mounting screw and the two philips head screws from each LUG-HOLDER, then remove all four LUG-HOLDERS. (Figure 8)

14. Remove the CRT grounding wire.

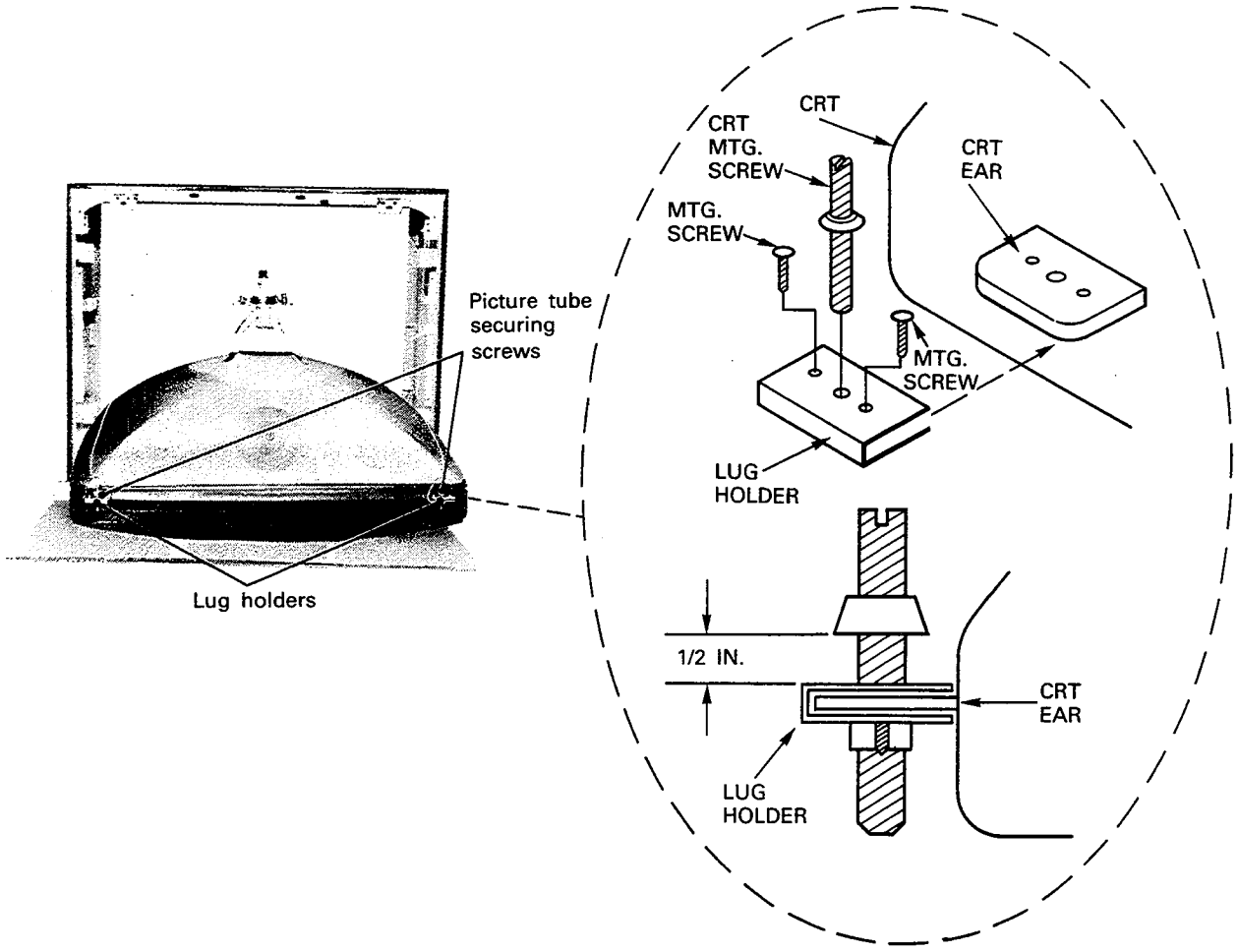


Figure 8

PICTURE TUBE INSTALLATION PROCEDURE

1. Place a cushion on the floor and carefully lie the replacement CRT face down on the cushion.

2. Install the CRT ground wire.

3. Install a LUG-HOLDER on each of the CRT Ears, and secure each with the two Philips mounting screw. (Figure 8)

4. Manually start a CRT mounting screw in each LUG-HOLDER, leave approximately 1/2 inch between the bushing on the screw and the LUG-HOLDER. (Figure 8)

5. Place the cabinet over the picture tube and position it so the distance between the CRT and cabinet is equal on both sides and so the CRT is as far as possible toward the top of the cabinet.

6. Secure the CRT to the cabinet with the 4 CRT mounting washers and hex nuts. (Figure 7)

7. Turn the TV upright, slide the CRT-HOLDERS (L & R) under the front of the CRT and secure both CRT-HOLDERs with a Philips mounting screw. (Figure 6)

   Note: If the CRT is sitting too low to insert the CRT-HOLDERS, raise the CRT by the procedure described in Step 8.

8. Check that the picture tube is seated securely in the HOLDERS (L & R). If required lower or raise the CRT by the following procedure:

   (1) Insert the JACK-CRT under the side of the CRT to be raised or lowered. (Figure 9)

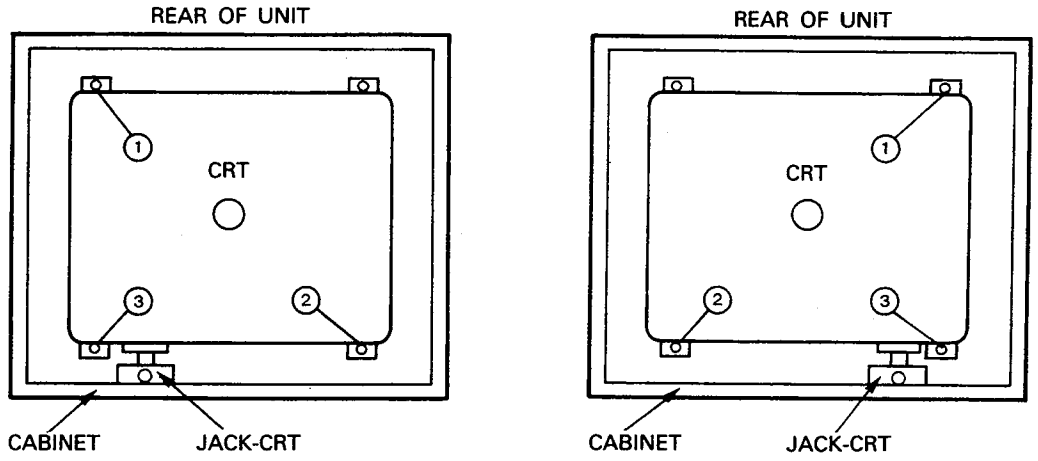
   (2) Adjust the height of the JACK-CRT so it is flush against the bottom of the CRT.

   (3) Loosen the upper CRT mounting nut on the side to be raised or lowered, then the diagonally opposite lower mounting nut, and lastly the lower mounting nut on the side to be moved, as illustrated in Figure 9.

   CAUTION: Loosen the CRT mounting nuts in small steps only so the CRT does not suddenly drop onto the CRT-HOLDERS.

   (4) Lower or raise the CRT to the desired position by adjusting the height of the JACK-CRT.

   (5) Tighten all four CRT mounting nuts.



LOWERING OR RAISING LEFT SIDE OF CRT

LOWERING OR RAISING RIGHT SIDE OF CRT

Figure 9

9. Temporarily insert the FRONT-MASK in the cabinet and check that no space exists between the picture tube and the mask, or between the mask and the cabinet. If no space exists proceed to step 11. If a space does exist proceed to Step 10.

10. Adjust the 4 CRT adjustment screws (Figure 7) with a flat blade screwdriver to vary the front to rear position of the CRT to eliminate any gaps between the CRT and mask, or mask and cabinet. (Rotate the CRT screw clockwise to move the picture tube toward the front of the cabinet and Counter Clockwise to move it toward the rear).

11. When the CRT position is correct, securely tighten the 4 CRT mounting nuts. (Figure 7)

12. Install and tighten the 14 FRONT-MASK mounting screws. (Figure 5)

13. Reinstall the SHIELD-COVER. (Figure 4)

14. Install the PCBs.

15. Connect the second anode connector to the picture tube.

16. Apply silicon compound to the surface of the CRT around the second anode connector insulation and then press the second anode cover in place.

PURITY AND CONVERGENCE

GENERAL

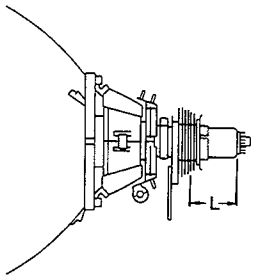
Purity and Convergence adjustment should be achieved in the following sequence order, when replacing Picture-Tube, Deflection-Yoke, or Purity-Convergence Magnetic Assembly.

Note 1: Picture-tube which is for the purpose of service is supplied in the form of assembly with Picture-tube, Deflection-yoke and Purity/Convergence magnetic assembly.
As a rule, Purity/Convergence adjustment has been already preset at factory, so that the regular adjustment only is required.

Note 2: When replacing either Deflection-yoke or Purity/Convergence magnetic assembly, proceed in the following procedure (1)-(4).

PROCEDURE

(1) Remove the deflection-yoke and the rubber wedges from the picture-tube-cone with care not to strike or scratch the cone surface.
(2) Clean the remaining cement off the deflection-yoke and the surface of the picture-tube-cone.
(3) Put the deflection-yoke on the neck of the picture-tube, fully forward against cone.
(4) Put the Purity/Convergence assembly on the neck of the picture-tube so that the distance between the 6-pole magnet and the base of the tube is 40 mm (1-9/16 inches) as shown in Fig. 4-1, and tighten the screw by hand.
(5) Demagnetize the front and sides of the picture-tube with a degaussing coil.



CRT	LENGTH
A89JVU81X	1-9/16 inches

Fig. 4-1

Preliminary Adjustment

1. Purity

(1) Connect the receiver to an external crosshatch generator with blank raster capabilities.
Set generator to "RASTER" position.

(2) Set the B-CUT off switch S602 (on VCJ-PCB) to the extreme left position to produce a yellow raster.

(3) With the deflection yoke positioned fully forward, adjust the purity magnet so that the yellow bar is at the center of the screen with normal vertical centering.

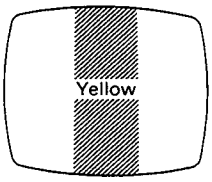


Fig. 4-2

(4) Slide the deflection yoke slowly backwards to produce a uniform yellow raster.

(5) Produce the primary color rasters; red, green, and blue and make sure no contamination is observed for each color.
To produce a red raster, set the B-CUT off switch S602 and G-CUT off switch S601 to the extreme left position.
To produce green and blue primary color, short-circuit the base and emitter of O605 (R-AMP) and set the B-CUT off switch S602 or G-CUT off switch S601 to the extreme left position. Temporarily fasten the deflection yoke.

2. Static Convergence

(1) Connect receiver to an external crosshatch generator set to crosshatch position.

(2) Set Contrast control to minimum (fully counter-clockwise). If necessary, adjust Brightness.

(3) Turn the plastic lock nut clockwise as observed from the back to loosen Convergence-Purity Assembly.

(4) Adjust the two 4-pole magnets to converge red and blue vertical and horizontal lines at the center of the screen.

(5) Adjust the two 6-pole magnets to converge the red and blue lines on green.

3. Focus

If necessary, adjust focus. Be certain focus is optimum throughout the entire screen.

Regular Adjustment

1. Purity

(1) Connect the receiver to an external crosshatch generator with blank raster capabilities.
Set generator to "RASTER" position.

(2) Set the B-CUT off switch S602 to the extreme left position and to produce yellow raster.

(3) Loosen the deflection yoke screw and move it forward. Make certain that the yellow bar is at the horizontal center. If necessary, adjust purity magnets to center it.

(4) Slide the yoke backwards to produce a uniform yellow raster.

(5) Using the same procedure as for preliminary Adjustment, produce red, blue, and green primary color raster and make sure no contamination is observed for each color.

(6) If necessary, repeat above steps.

(7) Tighten the yoke in position.

Note:

- Adjustment of the 4-pole magnets affects red and blue beams, moving them an equal distance in opposite directions.
- Adjustment of the 6-pole magnets affects red and blue beams, moving an equal distance in the same direction.
- The degree of the angle between the tab on the 4-pole magnet and that on the 6-pole magnet controls the amount of beam movement.
- Rotation of the 4 and 6-pole magnets together controls the direction of beam movement.

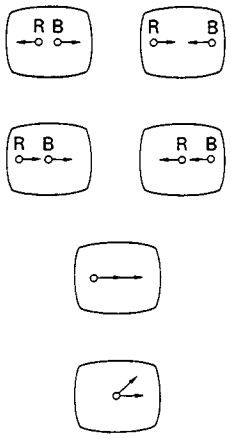


Fig. 4-3

Note: When adjusting the deflection yoke position, never touch any portion of the yoke other than the screw. Do not touch the purity ring magnets unless absolutely necessary, in which case carry out preliminary purity adjustment procedures again. The color select switches S601 and S602 must be reset to their original positions, otherwise abnormal tint will occur on color programs.

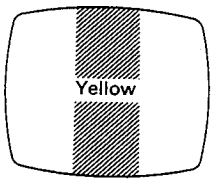


Fig. 4-4

2. Static Convergence

(1) Provide a cross-hatch signal.

(2) Set Contrast control to minimum.

(3) Adjust the 4-pole magnets to converge red and blue vertical and horizontal lines at the center of the screen.

(4) Adjust the 6-pole magnets to place the red and blue converged lines on the green.

(5) If necessary, repeat steps (3) and (4) above.

(6) Fasten the plastic lock nut of the Convergence-purity Assembly by turning clockwise.

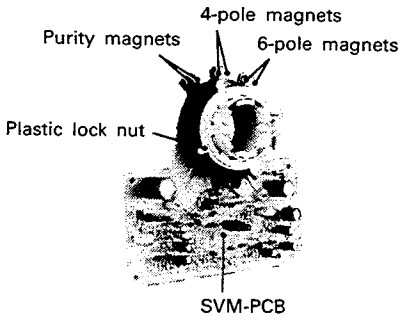


Fig. 4-5

3. Peripheral Convergence

(1) Observe the horizontal lines at the center of screen. If the red and blue horizontal lines have shifted crossing the green horizontal lines, as shown in Fig. 4-6, converge by vertically tilting yoke. Then confirm that vertical lines at the screen center are also converged.

(2) Observe the vertical lines at left and right center of the screen as shown in Fig. 4-7. If red or blue is shifted against green, converge by tilting the yoke horizontally. Then confirm that the horizontal lines both at top and bottom centers of the screen are also converged.

(3) Insert three rubber wedges between the picture tube cone surface and the deflection yoke, as indicated in Fig. 4-8, so that no space remains.

(4) Observe the entire screen and make sure convergence adjustment is completed. If necessary, change the positions of the wedges and repeat steps (1) and (2) above.

(5) After positioning the wedges, gently turn each wedge over and strip the tape from the rear to expose the adhesive material, then replace each wedge in position to adhere to the picture tube cone.

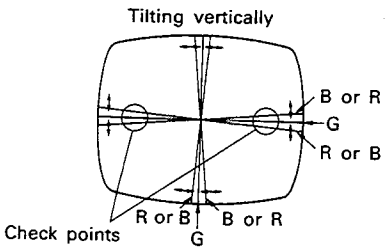


Fig. 4-6

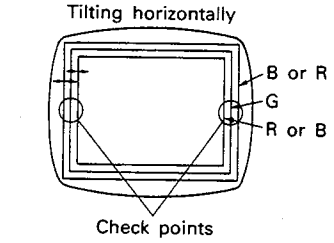


Fig. 4-7

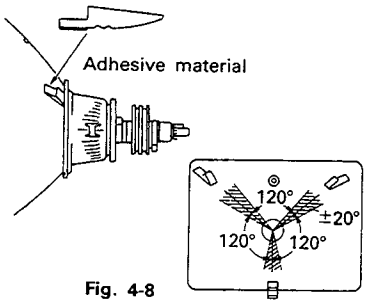
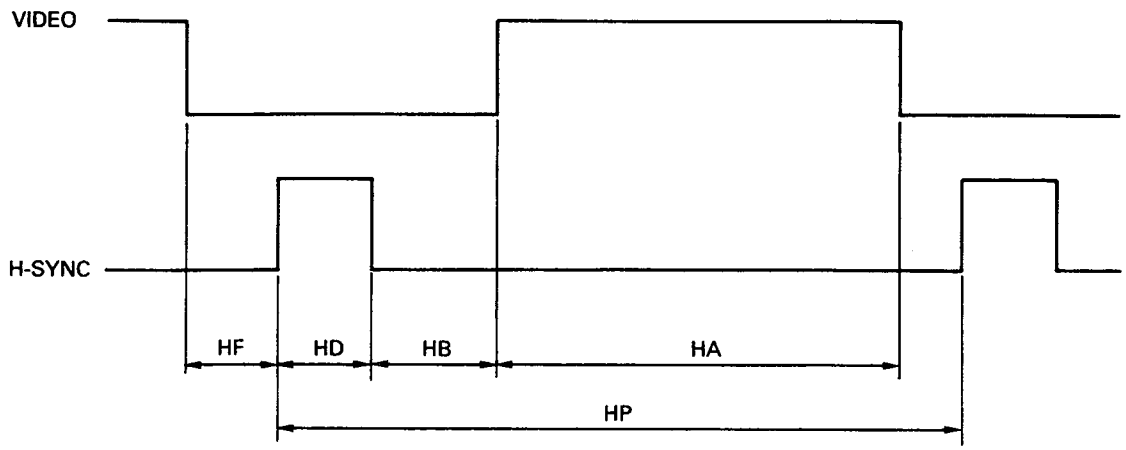


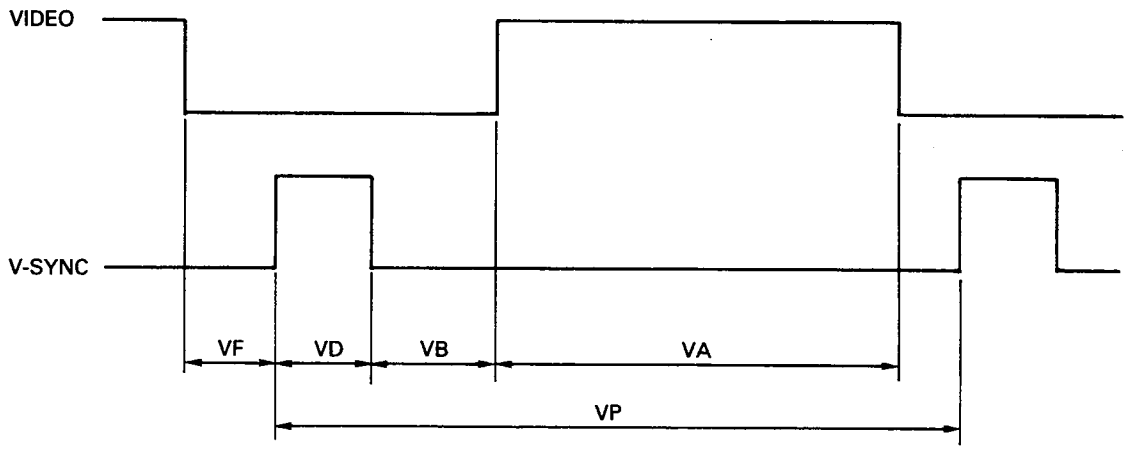
Fig. 4-8

TIMING CHART

HORIZONTAL



VERTICAL

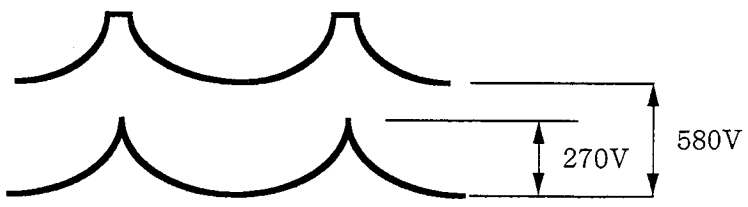


MODE	Horizontal Timing					Vertical Timing					Unit	f_H (kHz)	f_v (Hz)	Note
	HP	HF	HD	HB	HA	VP	VF	VD	VB	VA				
M1-2	63.78	6.47	4.45	8.03	44.83	16680	1640	190	2110	12740	μS	15.7	60	CGA
M2-1	45.75	−0.14	4.924	1.65	39.62	16750	44	595	100	16011	μS	21.8	59.7	EGA
M3-1	54.34	0.348	8.29	1.49	44.212	20040	51	868	133	18990	μS	18.4	50	MDA
M4-1	32	0.64	5.12	0.64	25.6	16670	384	512	418	15356	μS	31.25	60	
M5-1	32.7	0.2	4.48	2.36	25.66	16650	97	65	816	15672	μS	30.5	60	PGA Mode control "H" 480 lines
M5-2	32.7	0.2	4.48	2.36	25.66	16650	1400	65	2120	13065	μS	30.5	60	PGA Mode control "L" 400 lines

SERVICE ADJUSTMENT

High voltage Adjustment (EGA) <M2−1>	**VR5T1 VR5T2**	**Note : VR5T1 and VR5T2 are fixed by melting with soldering iron.** (1) Set VR5T1 and VR5T2 at full counterclockwise position. (2) Connect a DC voltmeter between pin-1 (+) and pin-2 (−) of connecter"D8". (3) Provide an RGB EGA white raster signal.<M2−1> (4) Adjust VR5T1 for 26.2±0.2V reading on the meter. (5) After completion of adjustment, fix the VR5T1 by melting with soldering iron.
Horizontal width (Summary) (EGA) <M2−1>	**VR553**	(1) Provide an RGB EGA white raster signal.<M2−1> (2) Set underscan position. (3) Reset H-SIZE control. (4) Adjust VR553 for approx 90% horizontal SIZE.
X− Protector Adjustment	**VR5T2**	★This adjustment should be made after completing the beam adjustment. (1) Provide a composite monochrome color bar signal. (15.734KHz) (2) Set overscan position. (3) Connect a DC voltmeter between test-point TP-91 (+) and TP1Z (−). (4) Adjust CONTRAST and BRIGHT control for 100V reading. (5) Connect a DC voltmeter between pin-1 (+) and pin-2 (−) of connecter"D9". (6) Adjust VR5T2 for 1.9±0.2V reading on the meter. (7) After completion of adjustment, fix the VR5T1 by melting with soldering iron.
Vertical width Change over SW (EGA) <M2−1>	**VR403 VR404**	(1) Set VR403 and VR404 at full counterclockwise position. (2) Provide an RGB EGA crosshatch signal <M2−1> (3) Set underscan position. (4) Reset V-POSI and V-SIZE control. (5) f (V) : 53.3Hz (6) Turn the VF-L control VR404 clockwise until suddenly open. (7) f (V) : 58.3Hz (8) Turn the VF-L control VR404 counterclockwise until suddenly open.
Vertical width (Summary) (EGA) <M2−1>	**VR452**	(1) Provide an RGB EGA white raster signal.<M2−1> (2) Set underscan position. (3) Adjust Height control VR452 for approx 90% vertical SIZE.

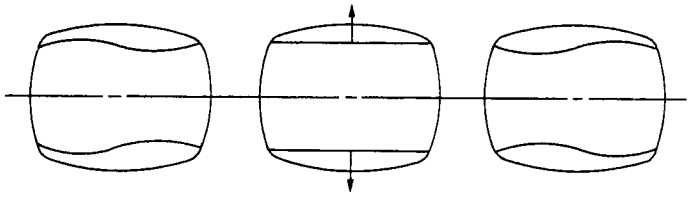
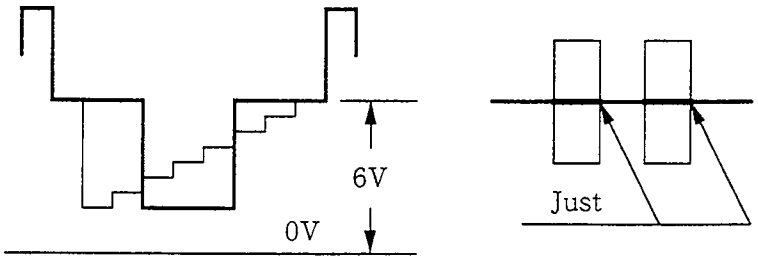
SERVICE ADJUSTMENT

Raster position (EGA) <M2−1>	**S551**	(1) Provide an RGB EGA crosshatch signal.<M2−1> (2) Set S552 for mechanical center position. (3) Set S551 for extreme right position. (4) Adjust S552 for optimum position.
Horizontal position (EGA) <M2−1>	**VR5P3**	(1) Provide an RGB EGA monochrome signal.<M2−1> (2) Set underscan position. (3) Reset H-POSI control. (4) Adjust VR5P3 to center picture.
(PGA) <M5−1>	**VR5P4**	(1) Provide an RGB PGA monochrome signal.<M5−1> (2) Set underscan position. (3) Reset H-POSI control. (4) Adjust VR5P4 to center picture.
(MDA) <M3−1>	**VR5P5**	(1) Provide an RGB MDA monochrome signal.<M3−1> (2) Set underscan position. (3) Reset H-POSI control. (4) Adjust VR5P5 to center picture.
(CGA) <M1−2>	**VR5P6**	(1) Provide an RGB CGA monochrome signal.<M1−2> (2) Set overscan position. (3) Reset H-POSI control. (4) Adjust VR5P6 to center picture.
(Composite)	**VR5P7**	(1) Provide a composite monochrome signal. (2) Reset H-POSI control. (3) Adjust VR5P7 to center picture.
DBF− AGC	**VR453** **VR5501** **VR5503**	(1) Turn OFF the power switch. (2) Connect an oscilloscope to test-point TP-8A on PCB-DBF. (3) Set VR453 (PCB-VCJ) and VR5501,VR5502 (PCB-DBF) at mechanical center position. (4) Turn on the power switch. (5) Provide a RGB EGA signal.<M2−1> (6) Set underscan position. (7) Adjust VR453 for best symmetry wave form pattern. (8) Connect an oscilloscope to test-point TP−8B. (CAUTION : Risk of electric shock) (9) Adjust VR5502 clockwise for reading of 270V. (10) Adjust VR5501 clockwise for reading of 580V. 

SERVICE ADJUSTMENT

East-West PCC (EGA) <M2-1>	**VR5J1**	(1) Provide an RGB EGA crosshatch signal.<M2-1> (2) Set underscan position. (3) Adjust VR5J1 for minimum East-West PCC distortion.
(Composite)	**VR5J2**	(1) Provide a composite crosshatch signal. (2) Set overscan position. (3) Adjust VR5J2 for minimum East-West PCC distortion.
Horizontal width (EGA) <M2-1>	**VR551** **VR553**	(1) Set VR551,VR552 and VR553 at mechanical center position. (2) Provide an RGB EGA white raster signal.<M2-1> (3) Set underscan position. (4) Set H-SIZE control at minimum position. (5) Adjust VR553 so that horizontal width becomes 24 in. (6) Reset H-SIZE control. (7) Adjust VR551 so that horizontal width becomes 25-3/8 in.
(Composite)	**VR552**	(1) Provide a composite monochrome signal. (2) Set underscan position. (3) Reset H-SIZE control. (4) Adjust VR552 so that horizontal width becomes 25-3/8 in.
Vertical width (EGA) <M2-1>	**VR451** **VR452**	(1) Provide an RGB EGA crosshatch signal.<M2-1> (2) Set underscan position. (3) Reset V-POSI and V-SIZE control. (4) Adjust HEIGHT control VR452 so that vertical width becomes 19-3/16±3/16 in. (5) Adjust V-LIN control VR451 for symmetry of vertical linearity. (6) Readjust HEIGHT control VR452 so that vertical width becomes 19-3/16±3/16 in.
(Composite)	**VR401**	(1) Provide a composite monochrome signal. (2) Set overscan position. (3) Reset V-SIZE and V-POSI control. (4) Adjust V-SIZE-O control VR401 for picture symmetry.
(PGA) <M5-2>	**VR402**	(1) Provide an RGB PGA crosshatch signal.<M5-2> (2) Set underscan position. (3) Reset V-POSI and V-SIZE control. (4) Adjust V-SIZE-P control VR402 so that vertical width becomes 19-3/4±3/16 in.

SERVICE ADJUSTMENT

North–South PCC (CGA) <M1–2>	**L451**	(1) Provide a composite crosshatch signal.<M1–2> (2) Reset V-POSI and V-SIZE control. (3) Set overscan position. (4) Adjust L451 for optimum North–South PCC phase. Adjust for maximum  (a) Low inductance (b) Normal (c) High inductance ※Simplified method Connect an oscilloscope across C465. Adjust L451 for maximum waveform.
Comb Filter		(1) Provide a composite color bar signal.(to EXT1) (2) Connect an oscilloscope to test-point TP-1A (R2A1). Set oscilloscope sensivity. V.scale : 50mV/DIV H.scale : 2 μ S/DIV (3) Set VR201 at mechanical center position. (4) Adjust L203 for minimum phase. (3.58MHz : less than 5mVp-p, 7.16MHz : less than 10mVp-p)
VIDEO RGB Circuit	**VR204**	★This adjustment should be made after setting clanp-switch to the mode A position. (DIP SW No.6) (1) Provide a composite color bar signal.(to EXT1) (2) Reset TINT,COLOR,BRT and CONT control. Set G-CUT-OFF and B-CUT-OFF switch at center position. (4) Set WHITE–SW at extreme rear position. (5) Connect an oscilloscope to test-point TP-1H. (IC201 pin-18) (6) Adjust VR2A5 for DC6V, as shown in (a). (7) Ground test-point TP-1L (R2H7). (8) Connect an oscilloscope to test-point TP-4G. (9) Adjust VR204 for coincidence, as shown in (b). (a) VR2A5 Adjustment (b) VR204 Adjustment 

SERVICE ADJUSTMENT

Video CONT Video R-DRIVE Video B-DRIVE	VR2A4 VR202 VR203	(1) Set SCREEN VR at full counterclockwise position. (2) Disconnect connector "DT". (3) Provide a composite color-bar signal (to EXT1). (4) Connect an oscilloscope to test-point TP-4G. (5) Adjust VR2A4 for 0.54Vp-p. (6) Set WHITE-SW at extreme rear position. (7) Connect an oscilloscope to test-point TP-4R. (8) Adjust VR202 for 0.54Vp-p. (9) Connect an oscilloscope to test-point TP-4B. (10) Adjust VR2A3 for 0.54Vp-p. (11) Reconnect connector "DT".
R-CUT-OFF G-CUT-OFF B-CUT-OFF R-DRIVE G-DRIVE B-DRIVE D/A SUB CONT D/ASUB BRIGHT SCREEN VR	VR6D1 VR6D2 VR6D3 VR8A1 VR8A2 VR8A3 VR8A4 VR8A5	(1) Provide a composite monoscope signal (to EXT1). (2) Set overscan position. (3) Reset BRT and CONT control. (4) Set VR6D1,6D2 and 6D3 at full counterclockwise position. Set VR8A1,VR8A2 and VR8A3 at full clockwise position. Set SCREEN VR at full counterclockwise position. (5) Connect an oscilloscope to test-point TP-6R (IC8B4 pin-14). (6) Adjust VR8A4 for 7.0V. (7) Set SERVICE-SW S451 (PCB-VCJ) at rear position. (8) Connect an oscilloscope to test-point TP-4K. (9) Adjust VR8A5 for DC200V. (10) Turn the SCREEN control clockwise until a red,blue or green horizontal line appears. (11) Adjust VR6D1,VR6D2 or VR6D3 to produce a white line. (12) Set WHITE-SW S603 at rear position. (13) Connect a voltmeter (input IMP=1MΩ) between test-point TP-91 (+) and TP-1Z (-). (14) Provide a composite monochrome color-bar signal. (15) Adjust VR8A4 for DC100V. (16) Provide a composite monoscope signal. (17) Adjust VR8A1,VR8A2 or VR8A3 to produce a white raster over the entire screen. (18) Provide a composite monochrome color-bar signal. (19) Readjust VR8A4 for DC100V. (20) Reset WHITE SW at front position.

<table>
<tr>
<td>RGB R-DRIVE
RGB G-DRIVE
RGB B-DRIVE</td>
<td>VR8A6
VR8B0
VR8A7</td>
<td>(1) Provide an RGB TTL CGA white raster signal.(to D-SUB9pin)
(R,G,B,g="H")
(2) Set RGB TTL 16 colors position.
Set RGB 16 colors CONTRAST VR at full clockwise position.
(3) Set underscan position.
(4) Reset BRT and CONT control.
(5) Set the mode A position.(DIP SW No.6)
(6) Set VR8A8 at full clockwise position.
(7) Connect a DC voltmeter between test-point TP-91 (+)
and TP-1Z (−).
(8) Set VR8A0 at full counterclockwise position.
(9) Adjust VR8A0 for DC90V.
(10) Set VR8A6,VR8B0 and VR8A7 at full clockwise position.
(11) Adjust VR8A6,VR8B0 and VR8A7 to produce a white raster
over the entire screen.</td>
</tr>
<tr>
<td>RGB SUB CONT
RGB TTL BRIGHT</td>
<td>VR8A8
VR8A0</td>
<td>(1) Provide an RGB ANALOG CGA white raster signal.
(to D-SUB 25pin or BNC 75ohm 0.6±0.01Vp-p)
(2) Set RGB ANALOG SEPARATE SYNC position.
(3) Reset BRT and CONT control.
(4) Connect a voltmeter (input IMP=1MΩ) between
test-point TP-9Z (+) and TP-1Z (−).
(5) Adjust VR8A8 for DC100V.
(6) Provide a RGB TTL CGA white raster signal.(R,G,B,g="H")
(7) Set RGB TTL 16 colors position.
(8) Adjust VR8A0 for DC100V.</td>
</tr>
<tr>
<td>MONOCHROME
SUB CONT</td>
<td>VR8A9</td>
<td>(1) Provide an RGB TTL CGA white raster signal.(R,G,B,g="H")
(2) Set the SELECT position.(DIP switch No.1 to No.5)
(3) Set RGB MONOCHROME position.
(4) Reset BRT and CONT control.
(5) Set VR8A9 at full counterclockwise position.
(6) Adjust VR8A9 for DC90V.</td>
</tr>
<tr>
<td>SUB TINT
SUB COLOR</td>
<td>VR602
VR601</td>
<td>(1) Provide a composite color-bar signal.
(2) Reset TINT,COLOR,BRT and CONT control.
(3) Adjust VR601 and VR602 for optimum.

※Connect a vectorscope to TP-46R

<table>
<tr><th>R−VECTOR</th><th>R−AMPLITUDE</th></tr>
<tr><td>110°</td><td>2.3Vp-p</td></tr>
</table>
</td>
</tr>
</table>

FOCUS		(1) Provide an RGB EGA crosshatch signal. (2) Set underscan position. (3) Set RGB ANALOG position. (4) Adjust FOCUS-2VR control for optimum center V-line. (5) Adjust FOCUS-1VR control for optimum center H-line. (6) Readjust several times for best results.

PARTS LIST(AM−3501R)

In order to expedite delivery of replacement part orders,

Specify : 1.Model number

2.Part number and Description

3.Quantity

Unless full information is supplied,delay in execution of orders will result.

＊ Warranty return items

RESISTOR / CAPACITOR

MARK	TOLERANCE	MARK	TOLERANCE	MARK	TOLERANCE
J	±5%	J	±5%	Z	+80% −20%
K	±10%	K	±10%	C	±0.25pF
M	±20%	M	±20%	D	±0.5pF
N	±30%	P	+100% − 0%	F	±1pF
				Q	+30% −10%

: Critical components

SYMBOL NO.	PART NO.	PART NAME	DESCRIPTION
		TUNER AND TUBES	
＊	255B94605	ITC ASSY	A89JVU81X
		IC'S	
IC201	266P21409	M51411SP	VCJ
IC202	266P21501	M51386L	COMB AMP
IC2A1	266P92304	NJM78L05A	5V REG
IC2A2	272P12901	M51457AP	APERTURE
IC2A3	263P05302	TC4053BP	NR SW
IC2001	272P02801	TA7717AP	AV SELECT-1
IC2002	266P01601	LA7016	AV SELECT-2
IC301	263P05202	TC4052BP	AUDIO SELECT
IC3A1	266P38802	AN5836	AUDIO CONTROL
IC3Q1	266P36402	STK4332	MAIN AMP
IC3Q2	266P93209	NJM7805A／AN7805／	5V REG
IC3Q3	266P93209	NJM7805A／AN7805／	5V REG
IC401	266P93404	μ PC7812H	12V REG
IC402	266P41901	M5223P	VF AMP
IC403	266P15401	μ PC393C	VF COMPARATOR
IC4A1	263P53807	TC4538BP	V-FVC
IC4A2	266P41901	M5223P	V-HOLD
IC501	263P53807	TC4538BP／HD14538BP	SYNC-DET
IC502	263P53807	TC4538BP／HD14538BP	CS-FV-C
IC503	266P72701	μ PC339C／MC3302P	FREQ-COMP
IC504	266P80601	M53206P／SN7406N	CS-SW-BUFFER
IC552	266P93209	NJM7805A／AN7805／	
IC553	266P71901	M51841P／NE555V	MANUAL-DG-SW
IC5A1	272P15701	LA7851	JUNGLE
IC5A2	266P83609	SN74LS161AN／	FVC-1
IC5A3	266P83609	SN74LS161AN／	FVC-2
IC5A4	263P37402	TC74HC74P	FVC-4
IC5A5	266P84001	SN74LS00N／HD74LS00P	FVC-3
IC5A6	266P41901	M5223P	FV AMP-1
IC5A7	266P41901	M5223P	FV AMP-2
IC5A8	266P41901	M5223P	DUTY CONTROL
IC5A9	266P92201	μ PC78M05H	5V REG
IC5B1	272P15601	μ PC78M24H	24V REG
IC5B2	266P93404	μ PC7812H	12V REG
IC5B3	263P06602	TC4066BP	AFC MODE SW
IC5J1	266P38601	AN5733	PCC AMP-1
IC5J2	266P41901	M5223P	PCC AMP-2
IC5P1	266P84401	SN74LS123N	H-PHASE CONTROL
IC5P2	263P05101	TC4051BP／MC14051	H-PHASE SW
IC5501	266P75201	M5109P	H-AGC-1
IC5502	266P75201	M5109P	V-AGC-1
IC6001	266P01601	LA7016	Y-SW
IC6002	266P01601	LA7016	CHROMA SW
IC701	272P14601	M50747E−225SP	MICROCOMPUTER
IC703	272P06401	M58630P	EAROM
IC704	266P13002	PST520C	RESET
IC705	266D03706	μ PD4514BC	LED DECODER-1
IC706	266D03706	μ PD4514BC	
IC707	272P13001	μ PA2981C	LED DRIVER-2
IC708	272P13001	μ PA2981C	LED DRIVER-2
IC709	272P13001	μ PA2981C	LED DRIVER-3
IC711	266P13002	PST520C	POWER DETECTOR
IC713	263P86901	μ PD6326C	D／A-1
IC714	263P86901	μ PD6326C	D／A-2
IC7F0	266P24901	CX20106A	PREAMP
IC801	263P05302	TC4053BP	RGB ANALOG SIGNAL SW
IC802	266P46801	SN74LS157N	TTL ANALOG SYNC SW
IC803	266P46801	SN74LS157N	RGB ANALOG SYNC SW
IC805	266P85001	SN74LS04N／HD74LS04P	SYNC POLARITY DETECTION
IC806	266P46509	M74LS136P／	SYNC POLARITY CORRECTION
IC807	266P85302	SN74LS08N	MODE SW
IC8A0	266P85302	SN74LS08N	RGB DIGITAL BUFFER-1
IC8A1	266P85901	SN74LS11N	RGB DIGITAL BUFFER-2
IC8A2	266P48601	SN74LS158N	TTL PROCESSING-1
IC8A3	266P45201	SN74LS05N	TTL PROCESSING-2
IC8A4	266P45701	SN74LS38N	TTL PROCESSING-3
IC8A5	266P45201	SN74LS05N	TTL PROCESSING-4
IC8A6	266P45701	SN74LS38N	TTL PROCESSING-5
IC8A7	266P84801	SN74LS02N	TTL PROCESSING-6
IC8A8	272P12801	SN74LS33N	MONOCHROME PROCESSING-2
IC8A9	266P25601	SN74LS09N	MONOCHROME PROCESSING-3
IC8B0	266P45201	SN74LS05N	MONOCHROME PROCESSING-4

SYMBOL NO.	PART NO.	PART NAME	DESCRIPTION
IC8B1	272P02701	AN5862K	TTL MONOCHROME SIGNAL SW
IC8B2	272P02701	AN5862K	TTL ANALOG SIGNAL SW
IC8B3	272P05501	AN5860	RGB VIDEO SW
IC8B4	272P08101	M51387P	SIGNAL PRE AMP
IC8B5	266P85302	SN74LS08N	MONOCHROME PROCESSING-1
IC8B6	266P45101	SN74LS03N/HD74LS03P	AV DECODER-2
IC8B7	266P45101	SN74LS03N/HD74LS03P	AV DECODER-1
IC80A1	266P84401	SN74LS123N	CLAMP PULSE
IC80A2	266P84401	SN74LS123N	V-SYNC SEP-1
IC80A3	266P84902	SN74LS74AN/HD74LS7	V-SYNC SEP-2
IC80A4	263P05302	TC4053BP	H-SYNC SW
IC80A5	263P05302	TC4053BP	V-SYNC SW-1
IC80A6	266P01601	LA7016	V-SYNC SW-2
IC80A7	263P05302	TC4053BP	AV SELECT-3
IC80A8	266P84401	SN74LS123N	H-SYNC REG
IC80A9	272P22801	AN5650	ON GREEN SYNC BUFFER-1
IC80B0	272P22801	AN5650	ANALOG SYNC SEP
IC9001	266D08801	STR53041	
IC9101	266D08802	STR45111	
IC9201	266D08801	STR53041	
IC9301	266D08802	STR45111	
IC9401	266D08801	STR53041	
IC9501	266D08803	SI3152V	15V REG
IC9502	266D08804	AN7812/HA17812P	12V REG
IC9503	266D08805	AN7824/HA17824P	30V REG
IC9504	266D08806	AN7805/HA17805P	5V REG

TRANSISTORS

Q 201	260P33804	2SC2603-E,F	VIDEO DRIVE-1
Q 202	260P25601	2SA1115-E,F	VIDEO DRIVE-2
Q 203	260P25601	2SA1115-E,F	VIDEO DRIVE-3
Q 204	260P33804	2SC2603-E,F	VIDEO CLAMP-1
Q 205	260P30501	2SC2901	VIDEO CLAMP-2
Q 206	260P33804	2SC2603-E,F	VIDEO CLAMP-3
Q 207	260P25601	2SA1115-E,F	VIDEO CLAMP-4
Q 2A1	260P33804	2SC2603-E,F	NOTCH SW
Q 2A2	260P25601	2SA1115-E,F	VIDEO BUFFER-1
Q 2A3	260P25601	2SA1115-E,F	VIDEO AMP-1
Q 2A4	260P25601	2SA1115-E,F	VIDEO BUFFER-2
Q 2A5	260P41904	2SC2724-C,D	VIDEO BUFFER-3
Q 2A6	260P25601	2SA1115-E,F	VIDEO BUFFER-4
Q 2A7	260P41904	2SC2724-C,D	VIDEO BUFFER-5
Q 2A8	260P25601	2SA1115-E,F	VIDEO BUFFER-6
Q 2A9	260P41904	2SC2724-C,D	APERTURE AMP-1
Q 2B1	260P41904	2SC2724-C,D	VIDEO BUFFER-8
Q 2B2	260P33804	2SC2603-E,F	VIDEO BUFFER-9
Q 2B3	260P33804	2SC2603-E,F	APERTURE AMP-2
Q 2B4	260P25601	2SA1115-E,F	VIDEO BUFFER-10
Q 2B5	260P25601	2SA1115-E,F	VIDEO BUFFER-7
Q 2B6	260P33804	2SC2603-E,F	SVM BUFFER
Q 2B7	260P33804	2SC2603-E,F	PIX CONTROL
Q 2001	260P33804	2SC2603-E,F	AV VIDEO SW
Q 2002	260P41905	2SC2724-D,E	VTR OUT-1
Q 2004	260P38703	2SC2236-Y	VTR OUT-2
Q 2005	260P38703	2SC2236-Y	VIDEO OUT-1
Q 2007	260P38703	2SC2236-Y	VIDEO OUT-2
Q 2008	260P41905	2SC2724-D.E	AV VIDEO OUT
Q 2009	260P41905	2SC2724-D.E	AV VIDEO AMP-1
Q 2010	260P41905	2SC2724-D.E	AV VIDEO AMP-2
Q 2011	260P41603	2SC2274-F	SWITCHED OUT-3
Q 2012	260P41905	2SC2724-D.E	AV VIDEO AMP-3
Q 2013	260P25601	2SA1115-E,F	Y/C BUFFER
Q 2014	260P41905	2SC2724-D.E	SWITCHED OUT-1
Q 2015	260P41905	2SC2724-D.E	SWITCHED OUT-2
Q 2016	260P33804	2SC2603-E,F	Y/C SW
Q 301	260P33804	2SC2603-E.F	R-AUDIO LINE OUT
Q 302	260P33804	2SC2603-E.F	L-AUDIO LINE OUT
Q 3A1	260P25601	2SA1115-E,F	MUTE-1
Q 3A2	260P33804	2SC2603-E,F	MUTE-2
Q 3A5	260P33804	2SC2603-E.F	MUTE-3
Q 3A6	260P33804	2SC2603-E,F	MUTE-4
Q 3B1	260P33804	2SC2603-E.F	SIG-AMP-1
Q 3B2	260P33804	2SC2603-E,F	SIG-AMP-3
Q 3B3	260P33804	2SC2603-E,F	SIG-AMP-2
Q 3B4	260P33804	2SC2603-E,F	SIG-AMP-4
Q 3B5	260P33804	2SC2603-E,F	VARI-OUT-1
Q 3B6	260P33804	2SC2603-E,F	VARI-OUT-2
Q 3B7	260P33804	2SC2603-E,F	VARI-OUT-3
Q 3B8	260P33804	2SC2603-E,F	VARI-OUT-4
Q 3B9	260P33804	2SC2603-E,F	MUTE-5
Q 3E1	260P42706	2SC1826	14V REG
Q 401	260P25601	2SA1115-E,F	VIDEO SYNC OUT
Q 402	260P25601	2SA1115-E,F	VIDEO BLACKING
Q 403	260P33804	2SC2603-E,F	V-HEIGHT-CONT
Q 404	260P33804	2SC2603-E,F	VF-L SW
Q 405	260P33804	2SC2603-E,F	VF-H SW
Q 406	260P33804	2SC2603-E,F	OVER SCAN SW
Q 407	260P33804	2SC2603-E,F	PGA SW
Q 408	260P33804	2SC2603-E,F	V-BLK OUT-2
Q 410	260P25601	2SA1115-E.F	BEAM LIMITER
Q 451	260P42802	2SC2168-Y	V-OUT-1
Q 452	260P62202	2SA958-Y	V-OUT-2
Q 453	260P57102	2SC3789-E,F	V-DRIVE

SYMBOL NO.	PART NO.	PART NAME	DESCRIPTION
Q 454	260P62202	2SA958-Y	PONPING OUT
Q 455	260P57102	2SC3789-E,F	PONPING DRIVE-2
Q 456	260P57102	2SC3789-E,F	PONPING DRIVE-1
Q 457	260P33804	2SC2603-E,F	DBF V-AMP
Q 463	260P33805	2SC2603-G	RELAY DRIVE
Q 465	260P38603	2SC2230-Y,GR	V-POSI COMP
Q 467	260P42802	2SC2168-Y	V-POSI DRIVE
Q 468	260P33804	2SC2603-E,F	V-BLK OUT-1
Q 469	260P57102	2SC3789-E,F	PONPING DRIVE-4
Q 470	260P33804	2SC2603-E,F	PONPING DRIVE-3
Q 4A1	260P33804	2SC2603-E,F	VD-AMP
Q 4A2	260P33804	2SC2603-E,F	V-LIMIT
Q 4A3	260P60301	DTC124ES	V-SYNC AMP
Q 501	260P33804	2SC2603-E,F	BLK SW
Q 502	260P45501	DTC124F	SYNC AMP
Q 503	260P33804	2SC2603-E,F	CS-SW-1
Q 505	260P33804	2SC2603-E,F	CS-SW-2
Q 507	260P33804	2SC2603-E,F	CS-SW-3
Q 551	260P62601	2SC3183-M	H-DRIVE
Q 552	260P38503	2SC2229-O,Y	O.S DRIVE-1
Q 553	260P56101	2SA1371	O.S DRIVE-2
Q 554	260P62001	2SC3997	H-DEFL OUT
Q 555	260P33804	2SC2603-E,F	CR-SW-1
Q 556	260P33804	2SC2603-E,F	CS-21KHz-SW
Q 557	260P33804	2SC2603-E,F	CS-18KHz-SW
Q 558	260P33804	2SC2603-E,F	CS-15KHz-SW
Q 559	260P33804	2SC2603-E,F	BLANKER
Q 560	260P38502	2SC2229-Y	-HWIDTH-CONT
Q 561	260P38502	2SC2229-Y	PCC MOD
Q 562	260P33804	2SC2603-E,F	HW-MUTE-1
Q 563	260P38502	2SC2229-Y	HW-OFFSET
Q 564	260P42201	2SC2482	HW-NF-1
Q 565	260P57102	2SC3789-E,F	HW-NF-2
Q 568	260P33804	2SC2603-E,F	H-BLK AMP
Q 570	260P33804	2SC2603-E,F	HV-MUTE-3
Q 571	260P38502	2SC2229-Y	HV-MUTE-1
Q 572	260P33804	2SC2603-E,F	HW-SW-1
Q 573	260P45501	DTC124F	HW-SW-4
Q 574	260P33804	2SC2603-E,F	HW-SW-3
Q 575	260P33804	2SC2603-E,F	HW-SW-5
Q 576	260P56101	2SA1371	DRIVE CONTROL
Q 577	260P25601	2SA1115-E,F	HW-SW-2
Q 5A1	260P25601	2SA1115-E,F	LOW LIMIT
Q 5A2	260P25604	2SA1115-F	OSC DRIVE-1
Q 5A3	260P33805	2SC2603-G	OSC DRIVE-2
Q 5A6	260P25504	2SA950-Y	OSC DRIVE-3
Q 5A7	260P33804	2SC2603-E,F	AFC SW
Q 5A8	260P60301	DTC124ES	MODE SW-3
Q 5A9	260P60301	DTC124ES	MODE SW-4
Q 5B1	260P41603	2SC2274-F	H-DRIVE
Q 5B2	260P33804	2SC2603-E,F	MODE SW-5
Q 5B5	260P33805	2SC2603-G	MODE SW-1
Q 5B6	260P33804	2SC2603-E,F	MODE SW-2
Q 5B7	260P47603	2SC2274-F	RIPPLE FILTER
Q 5E7	260P25601	2SA1115-E,F	SYNC AMP
Q 5J1	260P33804	2SC2603-E,F	PCC GAIN CONT
Q 5J2	260P58201	2SK656	PCC SW
Q 5M1	260P33804	2SC2603-E,F	DUTY DET-2
Q 5M2	260P33804	2SC2603-E,F	DUTY AMP
Q 5M3	260P32503	2SC2655-Y	DUTY DET-1
Q 5P1	260P25601	2SA1115-E,F	H-PHASE AMP-1
Q 5P2	260P25601	2SA1115-E,F	H-PHASE AMP-2
Q 5P3	260P25601	2SA1115-E,F	H-PHASE AMP-3
Q 5P4	260P33804	2SC2603-E,F	VCC BUFFER
Q 5P5	260P33804	2SC2603-E,F	H-PHASE CONTROL
Q 5T2	260P62101	2SD1881	HV-OUT
Q 5T3	260P33804	2SC2603-E,F	CR-SW-2
Q 5T4	260P25601	2SA1115-E,F	X-PRO-1
Q 5T5	260P25601	2SA1115-E,F	X-PRO-2
Q 5T6	260P38502	2SC2229-Y	HV-REG-1
Q 5T7	260P38502	2SC2229-Y	HV-REG-2
Q 5T8	260P38502	2SC2229-Y	HV-REG-3
Q 5T9	260P38502	2SC2229-Y	HV-REG-4
Q 5U1	260P38502	2SC2229-Y	HV-REG-5
Q 5U2	260P38502	2SC2229-Y	HV-REG-6
Q 5U3	260P25601	2SA1115-E,F	ACL-AMP
Q 5U4	260P56101	2SA1371	ACL-SW-3
Q 5U5	260P38501	2SC2229-Y	ACL-SW-2
Q 5U6	260P33804	2SC2603-E,F	ACL-SW-1
Q 5U7	260P33804	2SC2603-E,F	B-LEVEL SW
Q 5U8	260P38503	2SC2229-O,Y	START MUTE
Q 5U9	260P25601	2SA1115-E,F	BEAM LIMIT
Q 5V1	260P25601	2SA1115-E,F	HV-MUTE-1
Q 5V2	260P33804	2SC2603-E,F	HV-MUTE-2
Q 5V6	260P33804	2SC2603-E,F	X-PRO DRIVE
Q 5501	260P33804	2SC2603-E,F	H-AGC-2
Q 5502	260P25601	2SA1115-E,F	H-BUFFER
Q 5503	260P33804	2SC2603-E,F	H-AMP
Q 5504	260P33804	2SC2603-E,F	H-AGC OUT
Q 5505	260P33804	2SC2603-E,F	V-AGC-2
Q 5506	260P25601	2SA1115-EF	V-BUFFER
Q 5507	260P33804	2SC2603-E,F	V-AGC OUT
Q 5510	260P25601	2SA1115-E,F	DBF AMP-1
Q 5511	260P33804	2SC2603-E,F	DBF DRIVE
Q 5512	260P61701	2SC4256	DBF OUT-1
Q 5513	260P61701	2SC4256	DBF OUT-2
Q 5514	260P33804	2SC2603-E,F	V-AGC BUFFER
Q 5515	260P33804	2SC2603-E,F	V-AGC OUT-2
Q 601	260P33804	2SC2603-E,F	CHROMA BUFFER-1
Q 602	260P33804	2SC2603-E,F	R-MATRIX

After Serial # 00586 use 260P25604 (2SC2603)

SYMBOL NO.	PART NO.	PART NAME	DESCRIPTION
Q 603	260P33804	2SC2603-E,F	G-MATRIX
Q 604	260P33804	2SC2603-E,F	B-MATRIX
Q 605	260P25601	2SA1115-E,F	VIDEO R-AMP
Q 606	260P25601	2SA1115-E,F	VIDEO G-AMP
Q 607	260P25601	2SA1115-E,F	VIDEO B-AMP
Q 608	260P25601	2SA1115-E,F	VIDEO R-OUT
Q 609	260P25601	2SA1115-E,F	VIDEO G-OUT
Q 610	260P25601	2SA1115-E,F	VIDEO B-OUT
Q 6A1	260P59801	2SC3468-D	R-AMP-1
Q 6A2	260P59801	2SC3468-D	G-AMP-1
Q 6A3	260P59801	2SC3468-D	B-AMP-1
Q 6A4	260P33804	2SC2603-E,F	R-SW
Q 6A5	260P33804	2SC2603-E,F	G-SW
Q 6A6	260P33804	2SC2603-E,F	B-SW
Q 6A7	260P56101	2SA1371-D	R-AMP-2
Q 6A8	260P56101	2SA1371-D	G-AMP-2
Q 6A9	260P56101	2SA1371-D	B-AMP-2
Q 6B1	260P53301	2SC3598-E	R-BUFFER
Q 6B2	260P53301	2SC3598-E	G-BUFFER
Q 6B3	260P53301	2SC3598-E	B-BUFFER
Q 6B4	260P61601	2SC3946	R-OUT-1
Q 6B5	260P61601	2SC3946	G-OUT-1
Q 6B6	260P61601	2SC3946	B-OUT-1
Q 6B7	260P53301	2SC3598-E	R-DRIVE
Q 6B8	260P53301	2SC3598-E	G-DRIVE
Q 6B9	260P53301	2SC3598-E	B-DRIVE
Q 6C1	260P59801	2SC3468-D	R-OUT-2
Q 6C2	260P59801	2SC3468-D	G-OUT-2
Q 6C3	260P59801	2SC3468-D	B-OUT-3
Q 6C4	260P62701	2SA1480-D	R-OUT-3
Q 6C5	260P62701	2SA1480-D	G-OUT-3
Q 6C6	260P62701	2SA1480-D	B-OUT-3
Q 6K1	260P56101	2SA1371-D	R-CUT-OFF
Q 6K2	260P56101	2SA1371-D	G-CUT-OFF
Q 6K3	260P56101	2SA1371-D	B-CUT-OFF
Q 6001	260P33804	2SC2603-E,F	Y/C Y-INPUT
Q 6002	260P33804	2SC2603-E,F	Y/C MIXER
Q 6003	260P33804	2SC2603-E,F	Y/C MIX OUT
Q 6004	260P33804	2SC2603-E,F	Y/C Y-OUT
Q 6005	260P33804	2SC2603-E,F	Y/C CHROMA IN
Q 6007	260P33804	2SC2603-E,F	Y/C CHROMA OUT
Q 6008	260P33804	2SC2603-E,F	Y/C INPUT SW
Q 6009	260P33804	2SC2603-E,F	COMP CHROMA BUFFER-2
Q 6010	260P33804	2SC2603-E,F	COMP CHROMA BUFFER-1
Q 701	260P33804	2SC2603-E,F	SELECT SW-1
Q 702	260P33804	2SC2603-E,F	SELECT SW-2
Q 703	260P33804	2SC2603-E,F	SELECT SW-3
Q 704	260P33804	2SC2603-E,F	SELECT SW-4

SYMBOL NO.	PART NO.	PART NAME	DESCRIPTION
Q 705	260P33804	2SC2603-E,F	SELECT SW-5
Q 706	260P33804	2SC2603-E,F	SELECT SW-6
Q 707	260P33804	2SC2603-E,F	SELECT SW-7
Q 708	260P33804	2SC2603-E,F	SELECT SW-8
Q 709	260P33804	2SC2603-E,F	SELECT SW-9
Q 710	260P33804	2SC2603-E,F	SELECT SW-10
Q 711	260P33804	2SC2603-E,F	POWER SW-1
Q 712	260P33804	2SC2603-E,F	POWER SW-2
Q 713	260P33804	2SC2603-E,F	SELECT SW-11
Q 714	260P33804	2SC2603-E,F	OVER/UNDER SW
Q 716	260P33804	2SC2603-E,F	VIDEO MUTE DRIVE-1
Q 717	260P33804	2SC2603-E,F	VIDEO MUTE DRIVE-2
Q 718	260P33804	2SC2603-E,F	POWER SW-3
Q 719	260P33804	2SC2603-E,F	LED MUTE-1
Q 720	260P33804	2SC2603-E,F	LED MUTE-2
Q 721	260P41605	2SC2274-E,F	D/A REG
Q 801	260P33804	2SC2603-E,F	SYNC BUFFER-2
Q 807	260P41905	2SC2724-D,E	SYNC BUFFER-1
Q 808	260P41905	2SC2724-D,E	SYNC PROCESSING-1
Q 809	260P25601	2SA1115-EF	SYNC PROCESSING-2
Q 811	260P33804	2SC2603-E,F	MODE SW PROCESSING-1
Q 813	260P33804	2SC2603-E,F	MODE SW PROCESSING-3
Q 814	260P33804	2SC2603-E,F	MODE SW PROCESSING-4
Q 816	260P33804	2SC2603-E,F	MODE SW PROCESSING-2
Q 8A0	260P38701	2SC2236-O,Y	RGB BRIGHT-1
Q 8A1	260P38703	2SC2236-Y	RGB BRIGHT-2
Q 8A2	260P38703	2SC2236-Y	RGB CONTRAST
Q 8A3	260P33804	2SC2603-E,F	RGB CONTRAST SW
Q 8A4	260P25601	2SA1115-E,F	B-VIDEO BUFFER
Q 8A5	260P25601	2SA1115-E,F	G-VIDEO BUFFER
Q 8A6	260P25601	2SA1115-E,F	R-VIDEO BUFFER
Q 8A7	260P16704	2SA673A-D	R-SIGNAL BUFFER-1
Q 8A8	260P16704	2SA673A-D	G-SIGNAL BUFFER-1
Q 8A9	260P16704	2SA673A-D	B-SIGNAL BUFFER-1
Q 8B0	260P30501	2SC2901	SIGNAL BLANKING-1
Q 8B1	260P33804	2SC2603-E,F	MODE SW PROCESSING-5
Q 8B2	260P30501	2SC2901	SIGNAL BLANKING-3
Q 8B3	260P30501	2SC2901	SIGNAL BLANKING-2
Q 8B4	260P33804	2SC2603-E,F	SIGNAL MUTE
Q 8B5	260P41605	2SC2274-E,F	MONOCHROME DRIVE
Q 8B6	260P30501	2SC2901	YM-SW-1
Q 8B7	260P33804	2SC2603-E,F	AV-SW-1
Q 8B8	260P33804	2SC2603-E,F	YM-SW-2

SYMBOL NO.	PART NO.	PART NAME	DESCRIPTION
Q 8B9	260P33804	2SC2603-E,F	YS-SW-1
Q 8C0	260P33804	2SC2603-E,F	YS-SW-2
Q 8C2	260P25601	2SA1115-E,F	CONTRAST BUFFER
Q 8C3	260P33804	2SC2603-E,F	f SW MUTE
Q 8C4	260P41905	2SC2724-D,E	RGB R-DRIVE
Q 8C5	260P41905	2SC2724-D,E	RGB G-DRIVE
Q 8C6	260P41905	2SC2724-D,E	RGB B-DRIVE
Q 8C7	260P41905	2SC2724-D,E	R-SIGNAL BUFFER-2
Q 8C8	260P41905	2SC2724-D,E	G-SIGNAL BUFFER-2
Q 8C9	260P41905	2SC2724-D,E	B-SIGNAL BUFFER-2
Q 8D0	260P33804	2SC2603-E,F	RGB WHITE PEAK
Q 8D1	260P33804	2SC2603-E,F	PGA SW-2
Q 8D2	260P33804	2SC2603-E,F	PGA SW-1
Q 8001	260P57301	2SB940-P	SVM OUT-1
Q 8002	260P57401	2SD1264-P	SVM OUT-2
Q 8003	260P33806	2SC2603-F,G	SVM DRIVE-1
Q 8004	260P25604	2SA1115-F	SVM DRIVE-2
Q 8005	260P33806	2SC2603-F,G	SIG-OUT
Q 8006	260P33804	2SC2603-E,F	SIG-AMP-4
Q 8007	260P33804	2SC2603-E,F	SIG-AMP-3
Q 8008	260P33804	2SC2603-E,F	SIG-AMP-2
Q 8009	260P33804	2SC2603-E,F	SIG-AMP-1
Q 8010	260P33804	2SC2603-E,F	BLANKER
Q 80A1	260P33804	2SC2603-E,F	ON GREEN SYNC BUFFER-1
Q 80A2	260P33804	2SC2603-E,F	ON GREEN SYNC BUFFER-2
Q 80A4	260P33804	2SC2603-E,F	ON GREEN SYNC MUTE
Q 80A5	260P33804	2SC2603-E,F	ANALOG RGB SYNC SW
Q 80A6	260P33804	2SC2603-E,F	H-SYNC BUFFER
Q 80A7	260P25601	2SA1115-E,F	V-SYNC BUFFER-1
Q 80A8	260P25601	2SA1115-E,F	V-SYNC BUFFER-3
Q 80A9	260P33804	2SC2603-E,F	VIDEO SYNC BUFFER
Q 80B0	260P33804	2SC2603-E,F	V-SYNC BUFFER-2
Q 80B1	260P33804	2SC2603-E,F	ANALOG LEVEL SYNC SW-1
Q 80B2	260P33804	2SC2603-E,F	ANALOG LEVEL SYNC SW-2
Q 80B3	260P33804	2SC2603-E,F	CLAMP SW
Q 80B6	260P33804	2SC2603-E,F	ANALOG SYNC BUFFER-2
Q 80B7	260P33804	2SC2603-E,F	ANALOG SYNC BUFFER-1
Q 80C0	260P33804	2SC2603-E,F	H-SYNC DRIVE
Q 80C1	260P33805	2SC2603-G	V-SYNC DRIVE
Q 9001	260D17405	2SC2655-Y	
Q 9101	260D17405	2SC2655-Y	
Q 9201	260D17405	2SC2655-Y	
Q 9301	261D018022	2SC2688/2SC2611	
Q 9302	261D01803	2SA673	
Q 9303	261D01804	2SC2482	
Q 9304	260D17405	2SC2655-Y	
Q 9401	260D17405	2SC2655-Y	
Q 9501	261D01805	2SA1123-R,S/2SA1038-R,S	
Q 9502	261D01806	2SB885	
Q 9503	261D01807	2SC2631-R,S/2SC2389-R,S	
Q 9504	261D01807	2SC2631-R,S/2SC2389-R,S	
Q 9505	261D01808	2SC2553	
Q 9506	261D01809	2SA1091	
Q 9507	261D01804	2SC2482	
Q 9508	261D01804	2SC2482	

DIODES

D 215	264P04504	1S2471
D 216	264P04504	1S2471
D 217	264P04504	1S2471
D 220	264P12303	1SS99
D 221	264P12303	1SS99
D 2A1	264P04504	1S2471
D 2A2	264P04504	1S2471
D 2001	264P46408	EQA02-11C,D
D 2002	264P46408	EQA02-11C,D
D 2003	264P46408	EQA02-11C,D
D 2004	264P46408	EQA02-11C,D
D 2005	264P46408	EQA02-11C,D
D 2006	264P46408	EQA02-11C,D
D 2007	264P46408	EQA02-11C,D
D 2008	264P46408	EQA02-11C,D
D 301	264P04504	1S2471
D 302	264P04504	1S2471
D 303	264P04504	1S2471
D 304	264P04504	1S2471
D 305	264P04504	1S2471
D 306	264P04504	1S2471
D 307	264P04504	1S2471
D 308	264P04504	1S2471
D 3A1	264P04504	1S2471
D 3A2	264P04504	1S2471
D 3A3	264P50105	HZ3BLL
D 3A4	264P50105	HZ3BLL
D 3A5	264P04504	1S2471
D 3A6	264P04504	1S2471
D 3D1	264P20006	S2VB10

SYMBOL NO.	PART NO.	PART NAME	DESCRIPTION
D 3D2	264P48807	RD15EB2	
D 3D4	264P20006	S2VB10	
D 3E1	264P04504	1S2471	
D 3E2	264P04504	1S2471	
D 3E3	264P50801	S1WB (A) 10	
D 3E4	264P23101	TVR1G	
D 3E5	264P50203	HZ5CLL	
D 401	264P04504	1S2471	
D 410	264P04504	1S2471	
D 411	264P04504	1S2471	
D 413	264P04504	1S2471	
D 414	264P04504	1S2471	
D 415	264P04504	1S2471	
D 416	264P04504	1S2471	
D 420	264P28501	S5500D	
D 421	264P46004	EQA02-05A	
D 451	264P28501	S5500D	
D 452	264P28501	S5500D	
D 453	264P28501	S5500D	
D 454	264P28501	S5500D	
D 455	264P28501	S5500D	
D 460	264P28501	S5500D	
D 467	264P46101	EQA02-06AB/RD5.6EB2,B3	
D 472	264P28501	S5500D	
D 473	264P28501	S5500D	
D 474	264P46101	EQA02-06AB/RD5.6EB2,B3	
D 475	264P46506	EQA02-12B/RD13EB2	
D 476	264P28501	S5500D	
D 477	264P12303	1SS99	
D 478	264P12303	1SS99	
D 4A1	264P46106	EQA02-06C	
D 4A2	264P04504	1S2471	
D 503	264P04504	1S2471	
D 504	264P04504	1S2471	
D 505	264P04504	1S2471	
D 549	264P04504	1S2471	
D 551	264P52801	RP1H	
D 552	264P53001	RG4C	
D 553	264P53001	RG4C	
D 554	264P52901	CTS-G3FR	
D 555	264P28501	S5500D	
D 556	264P28501	S5500D	
D 557	264P28501	S5500D	
D 558	264P28501	S5500D	
D 559	264P04504	1S2471	
D 560	264P04504	1S2471	
D 561	264P04504	1S2471	
D 562	264P04504	1S2471	
D 563	264P10201	UF-2/RU-3A	
D 564	264P28501	S5500D	

SYMBOL NO.	PART NO.	PART NAME	DESCRIPTION
D 565	264P28501	S5500D	
D 566	264P28501	S5500D	
D 567	264P47003	EQA02-30B	
D 568	264P28501	S5500D	
D 569	264P28501	S5500D	
D 571	264P49301	RD39FB1	
D 572	264P49301	RD39FB1	
D 573	264P49301	RD39FB1	
D 578	264P52102	EU-1	
D 579	264P46007	EQA02-05D	
D 580	264P04504	1S2471	
D 581	264P04504	1S2471	
D 583	264P04504	1S2471	
D 584	264P46104	EQA02-06A	
D 585	264P04504	1S2471	
D 587	264P52102	EU-1	
D 589	264P04504	1S2471	
D 590	264P04504	1S2471	
D 591	264P28501	S5500D	
D 592	264P24402	HZT33-10	
D 594	264P49103	RD27EB1	
D 595	264P49103	RD27EB1	
D 596	264P18901	TLR124	
D 597	264P18901	TLR124	
D 598	264P18901	TLR124	
D 5A1	264P04506	1S2076A	
D 5A2	264P04506	1S2076A	
D 5A4	264P04504	1S2471	
D 5A6	264P04506	1S2076A	
D 5A7	264P46104	EQA02-06A	
D 5A8	264P46104	EQA02-06A	
D 5A9	264P46104	EQA02-06A	
D 5B1	264P04506	1S2076A	
D 5B5	264P04506	1S2076A	
D 5B6	264P04506	1S2076A	
D 5B7	264P04506	1S2076A	
D 5B8	264P04504	1S2471	
D 5C1	264P04504	1S2471	
D 5C2	264P04504	1S2471	
D 5M1	264P04504	1S2471	
D 5M2	264P04504	1S2471	
D 5M3	264P04504	1S2471	
D 5P1	264P04504	1S2471	
D 5P2	264P46104	EQA02-06A	
D 5P3	264P04504	1S2471	
D 5P4	264P04504	1S2471	
D 5T1	264P52801	RP1H	
D 5T2	264P24402	HZT33-10	
D 5T3	264P46007	EQA02-05D	
D 5T4	264P04504	1S2471	

SYMBOL NO.	PART NO.	PART NAME	DESCRIPTION
D 5T5	264P24402	HZT33-10	
D 5T6	264P28501	S5500D	
D 5T7	264P28501	S5500D	
D 5T8	264P47003	EQA02-30B	
D 5T9	264P53301	RS4FS	
D 5U1	264P52102	EU-1	
D 5U2	264P04504	1S2471	
D 5U3	264P28501	S5500D	
D 5U4	264P04504	1S2471	
D 5U5	264P04504	1S2471	
D 5U8	264P10205	RU-3	
D 5W1	264P28501	S5500D	
D 5Z1	264P50105	HZ3BLL	
D 5501	264P48802	RD13ED1	
D 5502	264P46503	EQA02-11D	
D 5503	264P04504	1S2471	
D 5504	264P04504	1S2471	
D 5505	264P04504	1S2471	
D 5506	264P46503	EQA02-11D	
D 5507	264P04504	1S2471	
D 5508	264P04504	1S2471	
D 5510	264P04504	1S2471	
D 601	~~264P46203~~	EQA02-07A	264P46104 (EQA02-06A)
D 6A1	264P46405	EQA02-10U	
D 6A2	264P46405	EQA02-10U	
D 6A3	264P46405	EQA02-10U	
D 6A4	264P04504	1S2471	
D 6A5	264P04504	1S2471	
D 6A6	264P04504	1S2471	
D 6D1	264P23101	TVR1G	
D 6D2	264P23101	TVR1G	
D 6D3	264P23101	TVR1G	
D 6D4	264P28501	S5500D	
D 6D5	264P28501	S5500D	
D 6D6	264P28501	S5500D	
D 6001	264P46202	EQA02-07CD	
D 6002	264P46202	EQA02-07CD	
D 701	264P04504	1S2471	
D 702	264P04504	1S2471	
D 703	264P04504	1S2471	
D 704	264P04504	1S2471	
D 705	264P04504	1S2471	
D 706	264P04504	1S2471	
D 707	264P04504	1S2471	
D 708	299D09003	DIODE-BLOCK	
D 709	299D09005	DIODE-BLOCK	
D 716	264P04504	1S2471	
D 717	264P04504	1S2471	
D 718	264P04504	1S2471	
D 719	264P04504	1S2471	

SYMBOL NO.	PART NO.	PART NAME	DESCRIPTION
D 720	264P04504	1S2471	
D 721	264P04504	1S2471	
D 722	264P04504	1S2471	
D 723	264P04504	1S2471	
D 724	264P04504	1S2471	
D 725	264P04504	1S2471	
D 726	264P04504	1S2471	
D 727	264P04504	1S2471	
D 728	264P04504	1S2471	
D 729	264P04504	1S2471	
D 730	264P04504	1S2471	
D 731	264P04504	1S2471	
D 732	264P46406	EQA02-10D	
D 740	264P46603	EQA02-14B	
D 741	264P04504	1S2471	
D 742	264P46605	EQA02-15A	
D 743	264P46101	EQA02-06AB	
D 744	264P46101	EQA02-06AB	
D 753	264P46101	EQA02-06AB	
D 754	264P46101	EQA02-06AB	
D 755	264P46101	EQA02-06AB	
D 756	264P46101	EQA02-06AB	
D 757	264P46101	EQA02-06AB	
D 758	264P46101	EQA02-06AB	
D 759	264P46101	EQA02-06AB	
D 780	299D09003	DIODE-BLOCK	
D 7F0	264P22601	SFH205	
D 7H0	264P21202	LN31GP.HL	
D 7H1	264P21202	LN31GP.HL	
D 7H2	264P21202	LN31GP.HL	
D 7H3	264P23802	GL5ND5	
D 7H4	264P21202	LN31GP.HL	
D 7H5	264P21202	LN31GP.HL	
D 7H6	264P21202	LN31GP.HL	
D 7H7	264P21202	LN31GP.HL	
D 7H8	264P21202	LN31GP.HL	
D 7H9	264P21202	LN31GP.HL	
D 7J0	264P21202	LN31GP.HL	
D 801	264P04504	1S2471	
D 802	264P04504	1S2471	
D 803	264P04504	1S2471	
D 804	264P04504	1S2471	
D 805	264P04504	1S2471	
D 806	264P04504	1S2471	
D 807	264P04504	1S2471	
D 808	264P04504	1S2471	
D 809	264P04504	1S2471	
D 810	264P04504	1S2471	
D 811	264P04504	1S2471	
D 812	264P04504	1S2471	

SYMBOL NO.	PART NO.	PART NAME	DESCRIPTION
D 813	264P04504	1S2471	
D 814	264P04504	1S2471	
D 815	264P04504	1S2471	
D 816	264P04504	1S2471	
D 817	264P04504	1S2471	
D 818	264P04504	1S2471	
D 825	264P04504	1S2471	
D 826	264P04504	1S2471	
D 827	264P04504	1S2471	
D 828	264P04504	1S2471	
D 836	264P04504	1S2471	
D 837	264P04504	1S2471	
D 839	264P46001	EQA02-05AB/RD4.7EB2	
D 8A0	264P04504	1S2471	
D 8A1	264P04504	1S2471	
D 8A2	264P04504	1S2471	
D 8A3	264P04504	1S2471	
D 8A4	264P04504	1S2471	
D 8A5	264P04504	1S2471	
D 8A6	264P04504	1S2471	
D 8A7	264P04504	1S2471	
D 8A8	264P04504	1S2471	
D 8A9	264P04504	1S2471	
D 8B0	264P04504	1S2471	
D 8B1	264P04504	1S2471	
D 8B2	264P04504	1S2471	
D 8B3	264P04504	1S2471	
D 8B4	264P04504	1S2471	
D 8B5	264P04504	1S2471	
D 8B6	264P04504	1S2471	
D 8B7	264P04504	1S2471	
D 8B8	264P04504	1S2471	
D 8B9	264P04504	1S2471	
D 8C0	264P04504	1S2471	
D 8C1	264P04504	1S2471	
D 8C2	264P04504	1S2471	
D 8C3	264P04504	1S2471	
D 8C4	264P04504	1S2471	
D 8C5	264P04504	1S2471	
D 8C6	264P04504	1S2471	
D 8C7	264P04504	1S2471	
D 8C8	264P04504	1S2471	
D 8C9	264P04504	1S2471	
D 8D0	264P04504	1S2471	
D 8D1	264P04504	1S2471	
D 8D2	264P04504	1S2471	
D 8D3	264P04504	1S2471	
D 8D4	264P04504	1S2471	
D 8D5	264P04504	1S2471	
D 8D6	264P04504	1S2471	

SYMBOL NO.	PART NO.	PART NAME	DESCRIPTION
D 8D7	264P04504	1S2471	
D 8D8	264P04504	1S2471	
D 8D9	264P04504	1S2471	
D 8E0	264P04504	1S2471	
D 8E1	264P04504	1S2471	
D 8E2	264P04504	1S2471	
D 8E3	264P04504	1S2471	
D 8E4	264P04504	1S2471	
D 8E5	264P04504	1S2471	
D 8E6	264P04504	1S2471	
D 8E7	264P04504	1S2471	
D 8E8	264P04504	1S2471	
D 8E9	264P04504	1S2471	
D 8001	264P04504	1S2471	
D 8002	264P04504	1S2471	
D 8003	264P28501	S5500D	
D 8004	264P28501	S5500D	
D 8007	264P46505	EQA02-12A	
D 80A1	264P04504	1S2471	
D 80A2	264P04504	1S2471	
D 80A5	264P04504	1S2471	
D 80A6	264P04504	1S2471	
D 80A9	264P04504	1S2471	
D 9001	264D11202	S10VB60	
D 9002	264D11101	RG2A	
D 9003	264D11103	EG01	
D 9004	264D11102	EU02	
D 9005	264D11102	EU02	
D 9006	264D11203	ES-1	
D 9007	264D11102	EU02	
D 9101	264D11104	RU4AM LFJ1	
D 9102	264D11106	RG1C	
D 9103	264D11105	R2KN	
D 9104	264D11102	EU02	
D 9105	264D11103	EG01	
D 9106	264D11107	FMG-G26S	
D 9107	264D11108	R2KS	
D 9108	264D11102	EU02	
D 9201	264D11101	RG2A	
D 9202	264D11102	EU02	
D 9203	264D11102	EU02	
D 9204	264D11102	EU02	
D 9205	264D11103	EG01	
D 9301	264D11104	RU4AM LFJ1	
D 9302	264D11105	R2KN	
D 9303	264P04504	1S2076A/1S2471	
D 9304	264D11106	RG1C	
D 9305	264D11102	EU02	
D 9306	264D11103	EG01	
D 9307	264D11107	FMG-G26S	

SYMBOL NO.	PART NO.	PART NAME	DESCRIPTION
D 9308	264D11108	R2KS	
D 9310	264D11102	EU02	
D 9311	264D11109	HZ24-2	
D 9312	264D11201	EM1Z/EM01Z	
D 9401	264D11101	RG2A	
D 9402	264D11102	EU02	
D 9403	264D11102	EU02	
D 9404	264D11102	EU02	
D 9405	264D11103	EG01	
D 9501	264D11204	CTL-G12S	
D 9502	264D11204	CTL-G12S	
D 9503	264D11102	EU02	
D 9504	264D11205	HZ6C1	
D 9505	264D11206	RU4M LFJ1	
D 9506	264D11207	HZ24	
D 9507	264D11208	HZ12B	
D 9508	264P04504	1S2076A/1S2471	
D 9509	264P04504	1S2076A/1S2471	
D 9510	264D11209	HZ6B2	
D 9511	264D11301	RU3B	
D 9512	264D11302	HZ12B2	
D 9513	264P04504	1S2076A/1S2471	
D 9514	264P04504	1S2076A/1S2471	
D 9515	264D11209	HZ6B2	
D 9516	264P04504	1S2076A/1S2471	
D 9517	264P04504	1S2076A/1S2471	
D 9518	264P04504	1S2076A/1S2471	
D 9519	264P04504	1S2076A/1S2471	
D 9520	264D11303	HZ15	

DELAY LINES

DL201	337P10301	DELAY LINE	ADL-CT036
DL2A1	337P10901	DELAY LINE	SDL-2054
DL2A3	337P10801	DELAY LINE	SDL-4259
DL2A4	337P10701	DELAY LINE	SDL-4185

COILES

	409B05404	DEGAUSSING COIL	
	409B05802	COIL-CANCEL	
L 203	349P14403	DL MATCH COIL	6.8 μ H
L 204	325C10608	PEAKING COIL	27 μ H-J
L 205	325C10701	PEAKING COIL	47 μ H-J
L 2A1	325C10603	PEAKING COIL	10 μ H-J
L 2A2	325C10601	PEAKING COIL	6.8 μ H-J
L 2A4	325C10704	PEAKING COIL	82 μ H-J
L 451	335P00406	H-WIDTH COIL	
L 491	330P11901	DEFLECTION YOKE COIL	
L 551	321D01901	RF COIL	0.47 μ H-M
L 552	411P00101	FERRITE LEAD COIL	
L 553	409P00609	FILTER COIL	4700 μ H-J
L 554	333P02301	HORIZONTAL LIN. COIL	
L 555	333P02301	HORIZONTAL LIN. COIL	
L 556	333P02301	HORIZONTAL LIN. COIL	
L 5P1	325C11109	PEAKING COIL	330 μ H-K
L 5T1	351P04601	CHOKE COIL	
L 5T2	411P00101	FERRITE LEAD COIL	
L 5T3	321D01901	RF COIL	0.47 (M) H-M
L 5T4	321C13009	RF COIL	10 μ H-K
L 601	325C10703	PEAKING COIL	68 μ H-J
L 602	325C10702	PEAKING COIL	56 μ H-J
L 604	325C10605	PEAKING COIL	15 μ H-J
L 605	325C10605	PEAKING COIL	15 μ H-J
L 606	325C10605	PEAKING COIL	15 μ H-J
L 6A1	325C10505	PEAKING COIL	2.2 μ H-J
L 6A2	325C10505	PEAKING COIL	2.2 μ H-J
L 6A3	325C10505	PEAKING COIL	2.2 μ H-J
L 6A4	325C10509	PEAKING COIL	4.7 μ H-J
L 6A5	325C10509	PEAKING COIL	4.7 μ H-J
L 6A6	325C10509	PEAKING COIL	4.7 μ H-J
L 6A7	411D01201	FERRITE CORE FILTER	BL02RN2-R62
L 6A8	411D01201	FERRITE CORE FILTER	BL02RN2-R62
L 6A9	411D01201	FERRITE CORE FILTER	BL02RN2-R62
L 6B4	321C01001	RF COIL	100 μ H-K
L 6B5	321C01001	RF COIL	100 μ H-K
L 6B6	409P41801	CHOKE COIL	FK0B160MH02
L 6D1	409P41901	CHOKE COIL	PLTIR53C
L 6D2	409P41901	CHOKE COIL	PLTIR53C
L 701	325C11103	PEAKING COIL	10 μ H-K
L 703	325C11103	PEAKING COIL	10 μ H-K
L 704	325C11103	PEAKING COIL	10 μ H-K
L 705	325C11103	PEAKING COIL	10 μ H-K
L 7F0	325C11205	PEAKING COIL	100 μ H-K
L 801	411D01201	FERRITE CORE FILTER	BL02RN2-R62
L 802	411D01201	FERRITE CORE FILTER	BL02RN2-R62
L 803	411D01201	FERRITE CORE FILTER	BL02RN2-R62
L 804	411D01201	FERRITE CORE FILTER	BL02RN2-R62
L 805	411D01201	FERRITE CORE FILTER	BL02RN2-R62
L 8A0	411D01201	FERRITE CORE FILTER	BL02RN2-R62
L 8A1	411D01201	FERRITE CORE FILTER	BL02RN2-R62
L 8A2	411D01201	FERRITE CORE FILTER	BL02RN2-R62
L 8A3	411D01201	FERRITE CORE FILTER	BL02RN2-R62
L 8A4	411D01201	FERRITE CORE FILTER	BL02RN2-R62

SYMBOL NO.	PART NO.	PART NAME	DESCRIPTION
L 8A5	411D01201	FERRITE CORE FILTER	BL02RN2-R62
L 8A6	411D01201	FERRITE CORE FILTER	BL02RN2-R62
L 8A7	411D01201	FERRITE CORE FILTER	BL02RN2-R62
L 8A8	411D01201	FERRITE CORE FILTER	BL02RN2-R62
L 8A9	411D01201	FERRITE CORE FILTER	BL02RN2-R62
L 8B0	411D01201	FERRITE CORE FILTER	BL02RN2-R62
L 8B1	325C11103	PEAKING COIL	10 μ H-K
L 8B2	325C11103	PEAKING COIL	10 μ H-K
L 8B3	325C11103	PEAKING COIL	10 μ H-K
L 8B4	325C11103	PEAKING COIL	10 μ H-K
L 8B5	325C11103	PEAKING COIL	10 μ H-K
L 8B6	411D01201	FERRITE CORE FILTER	BL02RN2-R62
L 8B7	411D01201	FERRITE CORE FILTER	BL02RN2-R62
L 8B8	411D01201	FERRITE CORE FILTER	BL02RN2-R62
L 8001	411D00902	FERRITE CORE	
L 8002	325C10605	PEAKING COIL	15 μ H-J
L 8003	325C10609	PEAKING COIL	33 μ H-J
L 80A1	411D01201	FERRITE CORE FILTER	BL02RN2-R62
L 80A2	411D01201	FERRITE CORE FILTER	BL02RN2-R62
L 80A3	411D01201	FERRITE CORE FILTER	BL02RN2-R62
L 80A4	411D01201	FERRITE CORE FILTER	BL02RN2-R62
L 9003	411D01501	LEAD FERRITE	ZBF113T-01
L 9004	411D01502	LEAD FERRITE	411P011-1
L 9101	325D06601	SP0508-220Y-1R9	22 μ H
L 9102	325D06602	SP0406-3R9K-1R8	3.9 μ H
L 9103	411D01501	LEAD FERRITE	ZBF113T-01
L 9104	411D01502	LEAD FERRITE	411P011-1
L 9201	411D01501	LEAD FERRITE	ZBF113T-01
L 9202	411D01502	LEAD FERRITE	411P011-1
L 9301	325D06601	SP0508-220Y-1R9	22 μ H
L 9302	325D06602	SP0406-3R9K-1R8	3.9 μ H
L 9303	411D01501	LEAD FERRITE	ZBF113T-01
L 9304	411D01502	LEAD FERRITE	411P011-1
L 9401	411D01501	LEAD FERRITE	ZBF113T-01
L 9402	411D01502	LEAD FERRITE	411P011-1
L 9501	325D06603	TSL1110-100M3R2	10 μ H-M
L 9502	325D06604	SP0406-220K1R3	22 μ H-K
L 9503	325D06603	TSL1110-100M3R2	10 μ H-M
L 9504	325D06604	SP0406-220K1R3	22 μ H-K
L 9505	325D06604	SP0406-220K1R3	22 μ H-K

SYMBOL NO.	PART NO.	PART NAME	DESCRIPTION
		TRANSFORMERS	
	350P38301	POWER TRANS.	
BP6001	349P15904	CHROMA-BP TRANS.	
T 451	349P15604	PCC TRANS.	
T 551	336P01801	H.DRIVE TRANS.	
T 552	351P04201	H.OUTPUT TRANS.	
T 5T1	336P00904	H.DRIVE TRANS.	
T 5T2	334P15101	FLYBACK TRANS.	
T 9051	350D03307	TRANS-POWER	D069-155A
T 9052	336D00501	DRIVE-TRANS	ETH-24K21AYA
T 9101	350D03308	TRANS-POWER	D069-157A
T 9102	336D00502	DRIVE-TRANS	ETH-19K69AYA
T 9251	350D03304	TRANS-POWER	D053-151A
T 9252	336D00501	DRIVE-TRANS	ETH-24K21AYA
T 9301	350D03306	TRANS-POWER	D053-156A
T 9302	336D00502	DRIVE-TRANS	ETH-19K69AYA
T 9451	350D03309	TRANS-POWER	D052-282A
T 9452	336D00501	DRIVE-TRANS	ETH-24K21AYA
		VARIABLE RESISTORS	
	129P04901	VR-FOCUS	MHF141-30A
VR201	127C09004	VR-SEMIFIXED	1/5W B1K-M
VR202	127C09001	VR-SEMIFIXED	1/5W B200-M
VR203	127C09001	VR-SEMIFIXED	1/5W B200-M
VR204	127C09009	VR-SEMIFIXED	1/5W B20K-M
VR2A4	127C09101	VR-SEMIFIXED	1/5W B50K-M
VR2A5	127C09101	VR-SEMIFIXED	1/5W B50K-M
VR3A1	127C09008	VR-SEMIFIXED	1/5W B10K-M
VR3A4	127C09100	VR-SEMIFIXED	1/5W B30K-M
VR401	127C08103	VR-SEMIFIXED	1/5W B200K-N
VR402	127C08103	VR-SEMIFIXED	1/5W B200K-N
VR403	127C09008	VR-SEMIFIXED	1/5W B10K-M
VR404	127C09008	VR-SEMIFIXED	1/5W B10K-M
VR451	127C09102	VR-SEMIFIXED	1/5W B100K
VR452	127C09003	VR-SEMIFIXED	1/5W B500-M
VR453	127C09006	VR-SEMIFIXED	1/5W B3K-M
VR4A1	127C09100	VR-SEMIFIXED	1/5W B30K-M
VR4A2	127C09009	VR-SEMIFIXED	1/5W B20K-M
VR4D1	127C08104	VR-SEMIFIXED	1/5W B300K-N
VR501	127C09009	VR-SEMIFIXED	1/5W B20K-M
VR502	127C09009	VR-SEMIFIXED	1/5W B20K-M
VR503	127C09009	VR-SEMIFIXED	1/5W B20K-M
VR551	127C09008	VR-SEMIFIXED	1/5W B10K-M
VR552	127C09100	VR-SEMIFIXED	1/5W B30K-M
VR553	127C09005	VR-SEMIFIXED	1/5W B2K-M

SYMBOL NO.	PART NO.	PART NAME	DESCRIPTION
VR5A1	127C09001	VR-SEMIFIXED	1/5W B200K-M
VR5A2	127C09008	VR-SEMIFIXED	1/5W B10K-M
VR5A3	127C09007	VR-SEMIFIXED	1/5W B5K-M
VR5A4	127C09006	VR-SEMIFIXED	1/5W B3K-M
VR5A5	127C09102	VR-SEMIFIXED	1/5W B100K-M
VR5J1	127C08102	VR-SEMIFIXED	1/5W B100K-M
VR5J2	127C08009	VR-SEMIFIXED	1/5W B20K-M
VR5P1	127C09005	VR-SEMIFIXED	1/5W B2KM
VR5P2	127C09009	VR-SEMIFIXED	1/5W B20K-M
VR5P3	127C09006	VR-SEMIFIXED	1/5W B30K-M
VR5P4	127C09006	VR-SEMIFIXED	1/5W B30K-M
VR5P5	127C09006	VR-SEMIFIXED	1/5W B30K-M
VR5P6	127C09006	VR-SEMIFIXED	1/5W B30K-M
VR5P7	127C09006	VR-SEMIFIXED	1/5W B30K-M
VR5T1	129D13009	VR-SEMIFIXED	1/4W B10K-M
VR5T2	129D13009	VR-SEMIFIXED	1/4W B10K-M
VR5501	127C09003	VR-SEMIFIXED	1/5W B500-M
VR5502	127C09003	VR-SEMIFIXED	1/5W B500-M
VR601	127C09103	VR-SEMIFIXED	1/5W B200K-M
VR602	127C09103	VR-SEMIFIXED	1/5W B200K-M
VR6D1	127C19101	VR-SEMIFIXED	1/10W B50K-M
VR6D2	127C19101	VR-SEMIFIXED	1/10W B50K-M
VR6D3	127C19101	VR-SEMIFIXED	1/10W B50K-M
VR7A1	120C33202	VR-PCB	1/20W B200K-20
VR7A2	127C08106	VR-SEMIFIXED	1/5W B1M-M
VR8A0	127C08008	VR-SEMIFIXED	1/5W B10K-M
VR8A1	127C08009	VR-SEMIFIXED	1/5W B20K-M
VR8A2	127C08009	VR-SEMIFIXED	1/5W B20K-M
VR8A3	127C08009	VR-SEMIFIXED	1/5W B20K-M
VR8A4	127C09101	VR-SEMIFIXED	1/5W B50K-M
VR8A5	127C09007	VR-SEMIFIXED	1/5W B5K-M
VR8A6	127C09002	VR-SEMIFIXED	1/5W B300-M
VR8A7	127C09002	VR-SEMIFIXED	1/5W B300-M
VR8A8	127C09101	VR-SEMIFIXED	1/5W B50K-M
VR8A9	127C09008	VR-SEMIFIXED	1/5W B10K-M
VR8B0	127C09002	VR-SEMIFIXED	1/5W B300-M
VR9001	127D00101	VZ068TL1	B100K
VR9201	127D00101	VZ068TL1	B100K
VR9401	127D00101	VZ068TL1	B100K
VR9501	127D00102	VZ068TL1	B5K
VR9502	127D00102	VZ068TL1	B5K

RESISTORS

R 451	109D06704	CEMENT RESISTOR	10W 33-K
R 481	103P45800	FUSIBLE RESISTOR	2W 1-K
R 601	103P43804	FUSE METAL RESISTOR	2W 2.2K
R 703	103P56401	RESISTOR (NETWORK)	1/8W 22K-JX6
R 763	103P57301	RESISTOR (NETWORK)	1/8W 3.3K-JX7
R 765	103P55301	RESISTOR (NETWORK)	1/8W 3.3K-JX5
R 786	103P59108	RESISTOR (NETWORK)	1/8W 270-JX9
R 9001	※	COMPOSITE RESISTOR	1/2W 470K-J
R 9002	※	CARBON RESISTOR	1/4W 220K-J
R 9003	※	METAL RESISTOR	3W 33K-J
R 9004	※	METAL RESISTOR	2W 18-J
R 9005	※	CARBON RESISTOR	1/4W 120K-J
R 9006	※	CARBON RESISTOR	1/4W 22K-J
R 9007	※	METAL RESISTOR	3W 33-J
R 9008	103D00105	FUSIBLE RESISTOR	1/4W 2.2-J
R 9009	103D00101	FUSIBLE RESISTOR	1/4W 33-J
R 9010	※	METAL RESISTOR	3W 0.27-J
R 9011	103D00102	FUSIBLE RESISTOR	1/4W 39-J
R 9012	※	METAL RESISTOR	1W 0.82-J
R 9013	102D00102	CEMENT RESISTOR	20W 2.2-K
R 9014	※	CARBON RESISTOR	1/4W 150-J
R 9101	※	METAL RESISTOR	2W 15-J
R 9102	※	CARBON RESISTOR	1/4W 270K-J
R 9103	※	METAL RESISTOR	3W 33K-J
R 9104	※	METAL RESISTOR	2W 18-J
R 9105	※	METAL RESISTOR	1W 3.9-J
R 9106	※	METAL RESISTOR	2W 33-J
R 9107	103D00104	FUSIBLE RESISTOR	1/4W 100-J
R 9108	※	CARBON RESISTOR	1/4W 33-J
R 9109	※	METAL RESISTOR	2W 0.39-J
R 9110	※	METAL RESISTOR	2W 560-J
R 9111	※	METAL RESISTOR	2W 560-J
R 9112	※	CARBON RESISTOR	1/4W 560-J
R 9113	※	METAL RESISTOR	3W 0.2-J
R 9114	※	METAL RESISTOR	3W 0.2-J
R 9201	※	METAL RESISTOR	3W 33-J
R 9202	※	METAL RESISTOR	2W 18-J
R 9203	※	CARBON RESISTOR	1/4W 220K-J
R 9204	※	CARBON RESISTOR	1/4W 120K-J
R 9205	※	CARBON RESISTOR	1/4W 22K-J
R 9206	103D00101	FUSIBLE RESISTOR	1/4W 33-J
R 9207	※	METAL RESISTOR	3W 0.27-J
R 9208	103D00102	FUSIBLE RESISTOR	1/4 39-J
R 9209	※	METAL RESISTOR	3W 33-J
R 9210	※	METAL RESISTOR	1W 0.82-J
R 9211	※	CARBON RESISTOR	1/4W 150-J
R 9301	※	METAL RESISTOR	2W 15-J
R 9302	102D00101	CEMENT RESISTOR	10W 2.7K-J
R 9303	※	CARBON RESISTOR	1/4W 100K-J
R 9304	※	METAL RESISTOR	2W 2.2-J
R 9305	※	CARBON RESISTOR	1/4W 220-J
R 9306	103D00103	FUSIBLE RESISTOR	1/4W 1K-J
R 9307	※	CARBON RESISTOR	1/4W 120K-J
R 9308	※	FUSIBLE RESISTOR	1/4W 1K-J
R 9309	※	CARBON RESISTOR	1/4W 1K-J

SYMBOL NO.	PART NO.	PART NAME	DESCRIPTION
R 9310	※	METAL RESISTOR	3W 33K-J
R 9311	※	METAL RESISTOR	2W 18-J
R 9312	※	CARBON RESISTOR	1/4W 270K-J
R 9313	※	METAL RESISTOR	1W 3.9-J
R 9314	※	METAL RESISTOR	2W 33-J
R 9315	103D00104	FUSIBLE RESISTOR	1/4W 100-J
R 9316	※	CARBON RESISTOR	1/4W 33-J
R 9317	※	METAL RESISTOR	2W 0.39-J
R 9318	※	METAL RESISTOR	2W 560-J
R 9319	※	METAL RESISTOR	2W 560-J
R 9320	※	CARBON RESISTOR	1/4W 560-J
R 9321	※	METAL RESISTOR	3W 0.2-J
R 9322	※	METAL RESISTOR	3W 0.2-J
R 9401	※	METAL RESISTOR	3W 33K-J
R 9402	※	METAL RESISTOR	2W 18-J
R 9403	※	CARBON RESISTOR	1/4W 220K-J
R 9404	※	CARBON RESISTOR	1/4W 120K-J
R 9405	※	CARBON RESISTOR	1/4W 22K-J
R 9406	103D00101	FUSIBLE RESISTOR	1/4W 33-J
R 9407	※	METAL RESISTOR	3W 0.27-J
R 9408	103D00102	FUSIBLE RESISTOR	1/4W 39-J
R 9409	※	METAL RESISTOR	3W 33-J
R 9410	※	METAL RESISTOR	1W 0.82-J
R 9411	※	CARBON RESISTOR	1/4W 150-J
R 9501	102D00103	CEMENT RESISTOR	5W 5.6-J
R 9502	102D00104	CEMENT RESISTOR	5W 12-J
R 9503	※	CARBON RESISTOR	1/4W 3.9K-J
R 9504	※	CARBON RESISTOR	1/4W 2.2K-J
R 9505	※	CARBON RESISTOR	1/4W 220K-J
R 9506	※	CARBON RESISTOR	1/4W 1K-J
R 9507	※	CARBON RESISTOR	1/4W 1M-J
R 9508	※	METAL RESISTOR	1W 5.6K-J
R 9509	※	CARBON RESISTOR	1/4W 100K-J
R 9510	103D00106	FUSIBLE RESISTOR	1/4W 8.2K-J
R 9511	103D00106	FUSIBLE RESISTOR	1/4W 8.2K-J
R 9512	※	CARBON RESISTOR	1/4W 33K-J
R 9513	※	CARBON RESISTOR	1/4W 15K-J
R 9514	※	CARBON RESISTOR	1/4W 33K-J
R 9515	※	CARBON RESISTOR	1/4W 33K-J
R 9516	※	CARBON RESISTOR	1/4W 4.7K-J
R 9517	※	CARBON RESISTOR	1/4W 100K-J
R 9518	103D00107	FUSIBLE RESISTOR	1/4W 680-J
R 9519	103D00108	FUSIBLE RESISTOR	1/4W 120-J
R 9520	※	METAL RESISTOR	2W 68K-J
R 9521	※	CARBON RESISTOR	1/4W 1M-J
R 9522	103D00106	FUSIBLE RESISTOR	1/4W 8.2K-J
R 9523	103D00106	FUSIBLE RESISTOR	1/4W 8.2K-J
R 9524	※	CARBON RESISTOR	1/4W 120K-J
R 9525	※	CARBON RESISTOR	1/4W 15K-J
R 9526	※	CARBON RESISTOR	1/4W 330K-J
R 9527	※	CARBON RESISTOR	1/4W 330K-J
R 9528	※	CARBON RESISTOR	1/4W 15K-J
R 9529	※	METAL RESISTOR	2W 560-J
R 9530	※	CARBON RESISTOR	1/4W 560-J
R 9531	※	CARBON RESISTOR	1/4W 560-J
R 9532	※	CARBON RESISTOR	1/4W 680-J
R 9533	103D00109	FUSIBLE RESISTOR	1/4W 0.22-J
R 9534	103D00109	FUSIBLE RESISTOR	1/4W 0.22-J

※ NOT SETTLED PARTS.

CAPACITORS AND TRIMMERS

C 711	149D81104	CR-MULTIPLE	B50V 560PF-KX4
C 717	149D81104	CR-MULTIPLE	B50V 560PF-KX4
C 724	149D81106	CR-MULTIPLE	B50V 220PF-KX4
C 9001	※	C-MP LHX/ECQ-UH	AC125V 0.1 μ F
C 9003	※	C-MP LHX/ECQ-UH	AC125V 0.1 μ F
C 9004	※	C-C DE7100F222M	VAI 2200pF-M
C 9005	※	C-C DE7100F222M	VAI 2200pF-M
C 9006	※	C-E LLK2D681MHSA	200V 680 μ F-M
C 9007	※	C-C	500V E-2200pF-K
C 9008	※	C-PP DTW	630V 0.047 μ F-K
C 9009	※	C-C DE1210R152K	2KV R-1500pF-K
C 9010	※	C-E VT	50V 2.2 μ F-M
C 9011	※	C-C	500V B-470pF-K
C 9012	※	C-E VT	63V 47 μ F-M
C 9013	※	C-MF	50V 0.047 μ F-K
C 9014	※	C-C DE1210R152K	2KV R-1500pF-K
C 9057	※	C-C DE7090B102KVA1	VAI 1000pF
C 9058	※	C-C DE7090B471KVA1	VAI 470pF
C 9101	※	C-C DE0907R471K	2KV R-470pF-K
C 9102	※	C-E LLK2C821MHSA	160V 820 μ F-M
C 9103	※	C-PP DTW	630V 0.047 μ F-K
C 9104	※	C-C DE1210R152K	2KV R-1500pF-K
C 9105	※	C-C	500V E-1000pF-K
C 9106	※	C-E VX	160V 10 μ F-M
C 9107	※	C-E LLK2C331MHSZ	160V 330 μ F-M
C 9108	※	C-MF	50V 0.022 μ F-K
C 9109	※	C-E VX	160V 33 μ F
C 9110	※	C-C	500V E-100pF-K
C 9111	※	C-C	500V E-100pF-K
C 9112	※	C-E VX	160V 1 μ F
C 9113	※	C-C DE1210R152K	2KV R-1500pF-K
C 9201	※	C-E LLK 2D681MHSA	200V 680 μ F-M
C 9202	※	C-PP DTW	630V 0.047 μ F-K
C 9203	※	C-C DE1210R152K	2KV R-1500pF-K
C 9204	※	C-C	500V B-470pF-K

SYMBOL NO.	PART NO.	PART NAME	DESCRIPTION
C 9205	※	C-E VT	63V 47 μ F-M
C 9206	※	C-MF	50V 0.047 μ F-K
C 9207	※	C-C DE1210R152K	2KV R-1500pF-K
C 9251	※	C-C DE7090B102KVAI	VAI 1000pF
C 9252	※	C-C DE7090B471KVAI	VAI 470pF
C 9301	※	C-C DE0907R471K	2KV R-470pF-K
C 9302	※	C-E LLK2C821MHSA	160V 820 μ F-M
C 9303	※	C-E VT	50V 10 μ F-M
C 9304	※	C-E VX	50V 1 μ F-M
C 9305	※	C-E VX	160V 10 μ F-M
C 9306	※	C-C	500V E-1000pF-K
C 9307	※	C-E VX	160V 22 μ F-M
C 9308	※	C-PP DTW	630V 0.047 μ F-K
C 9309	※	C-C DE1210R152K	2KV R-1500pF-K
C 9310	※	C-MF	50V 0.022 μ F-K
C 9311	※	C-E LLK 2D681MHSA	160V 680 μ F-M
C 9312	※	C-E VX	160V 33 μ F-M
C 9313	※	C-C	500V E-1000pF-K
C 9314	※	C-E VX	160V 1 μ F-M
C 9315	※	C-C	500V E-4700pF-K
C 9316	※	C-C DE1210R152K	2KV R-1500pF-K
C 9401	※	C-E LLK 2D681MHSA	200V 680 μ F-M
C 9402	※	C-PP DTW	630V 0.047 μ F-K
C 9403	※	C-C DE1210R152K	2KV R-1500pF-K
C 9404	※	C-C	500V B-470pF-K
C 9405	※	C-E VT	63V 47 μ F-M
C 9406	※	C-MF	50V 0.047 μ F-K
C 9407	※	C-C DE1210R152K	2KV R-1500pF-K
C 9451	※	C-C DE7090B102KVAI	VAI 1000pF
C 9452	※	C-C DE7090B471KVAI	VAI 470pF
C 9502	※	C-E VT	25V 2200 μ F-M
C 9503	※	C-E VT	25V 2200 μ F-M
C 9505	※	C-E VX	25V 1000 μ F-M
C 9506	※	C-E VT	16V 470 μ F-M
C 9507	※	C-E VT	16V 1000 μ F-M
C 9508	※	C-E VT	16V 1000 μ F-M
C 9510	※	C-E VX	10V 1000 μ F-M
C 9512	※	C-E VT	50V 100 μ F-M
C 9513	※	C-E VT	50V 100 μ F-M
C 9515	※	C-E VT	50V 1 μ F-M
C 9516	※	C-E VX	50V 47 μ F-M
C 9517	※	C-E VT	50V 470 μ F-M
C 9518	※	C-E VT	50V 470 μ F-M
C 9520	※	C-E VX	50V 1 μ F-M
C 9521	※	C-E VT	100V 1 μ F-M
C 9522	※	C-C	500V B-220pF-K
C 9523	※	C-E VT	25V 47 μ F-M
C 9524	※	C-E VX	100V 47 μ F-M
C 9525	※	C-E LLK2G101MHSZ	400V 100 μ F-M
C 9526	※	C-E VX	350V 47 μ F-M
C 9528	※	C-E PC	350V 1 μ F-M
C 9529	※	C-E VT	25V 47 μ F-M
C 9531	※	C-E VX	315V 33 μ F-M
C 9533	※	C-C	500V E-1000pF

※ NOT SETTLED PARTS.

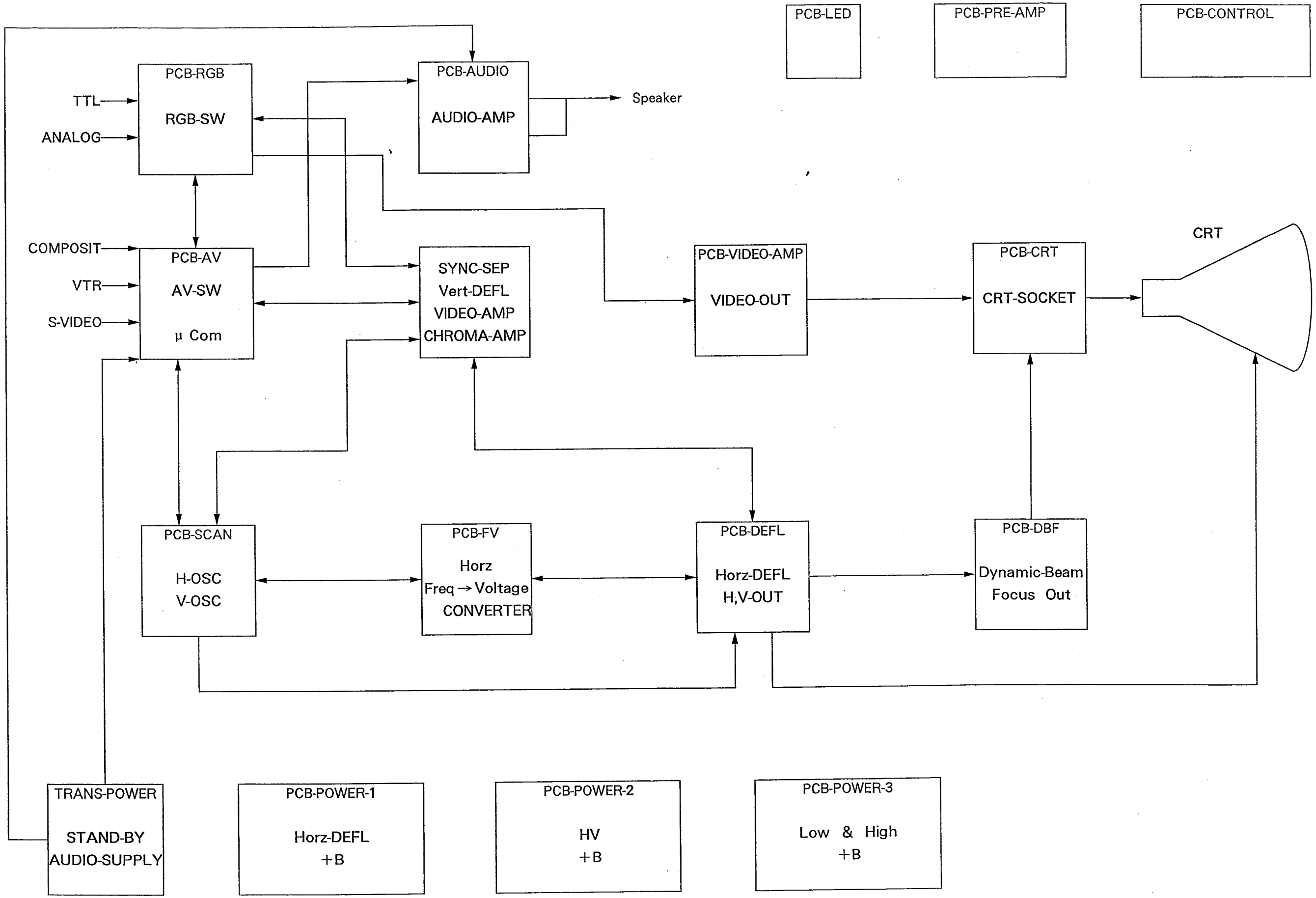
SWITCHES

	432C04009	PUSH SWITCH
S 551	431C06001	SLIDE SWITCH
S 552	431C05902	SLIDE SWITCH
S 7A1	431C06701	SLIDE SWITCH
S 7A2	431C06803	SLIDE SWITCH
S 7A3	432P10103	KEY BOARD SWITCH
S 7A4	432P08301	PUSH SWITCH
S 7A5	432P08301	PUSH SWITCH
S 7A6	432P08301	PUSH SWITCH
S 7A7	432P08301	PUSH SWITCH
S 7A8	432P08301	PUSH SWITCH
S 7A9	432P10103	KEY BOARD SWITCH
S 7B0	432P10103	KEY BOARD SWITCH
S 7B1	432P10103	KEY BOARD SWITCH
S 7B2	432P08401	PUSH SWITCH
S 7B3	432P08301	PUSH SWITCH
S 7B4	432P08301	PUSH SWITCH
S 7B5	432P08301	PUSH SWITCH
S 7B6	432P08301	PUSH SWITCH
S 7B7	432P08301	PUSH SWITCH
S 7B8	432P08301	PUSH SWITCH
S 7B9	432P08301	PUSH SWITCH
S 7C0	432P08402	PUSH SWITCH
S 7C1	432P08402	PUSH SWITCH
S 7C2	432P08402	PUSH SWITCH
S 991	432C04008	PUSH SWITCH

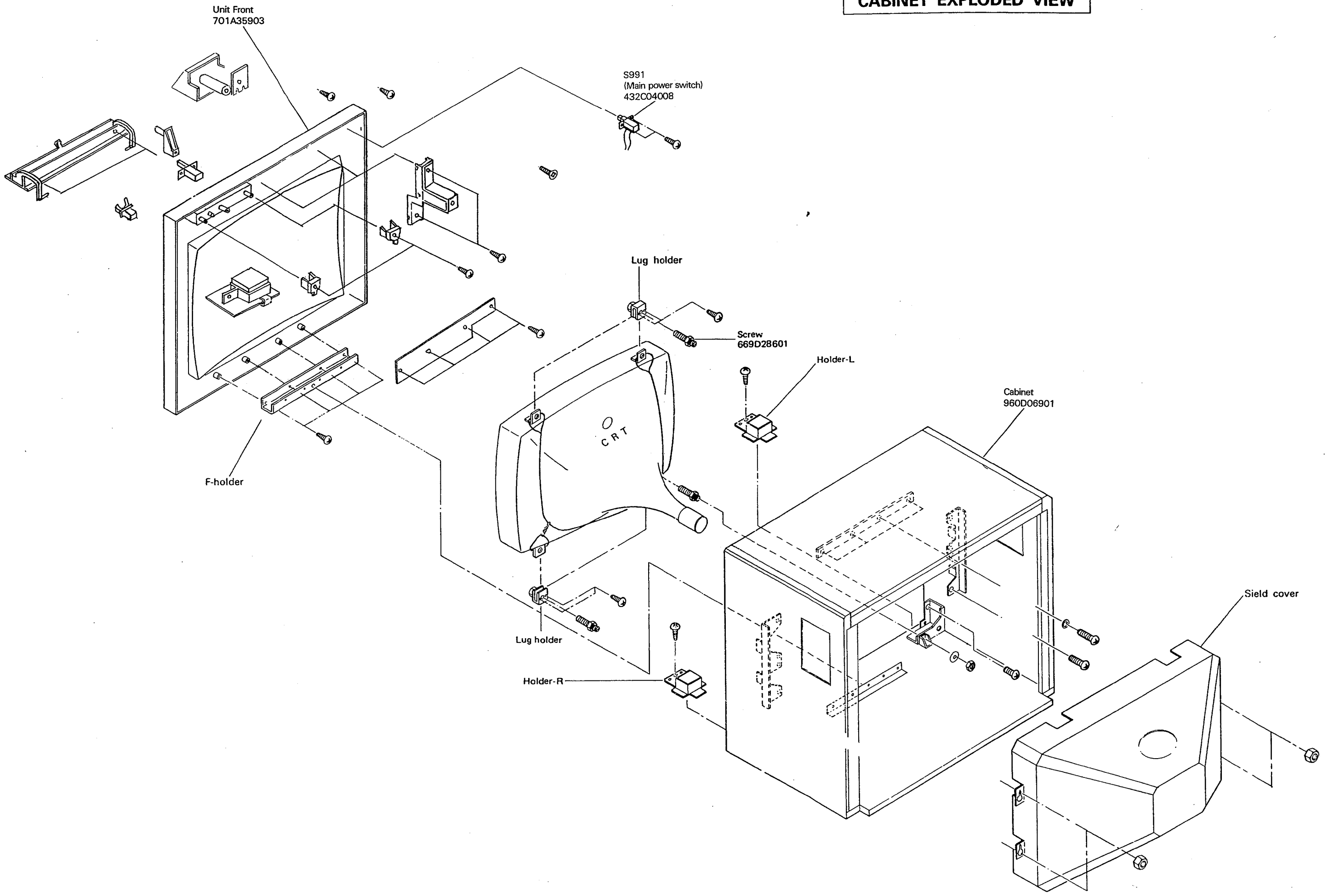
MISCELLANEOUS

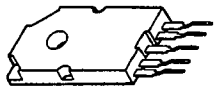
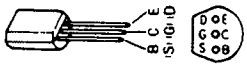
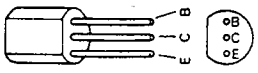
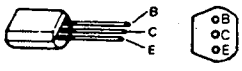
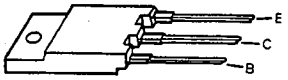
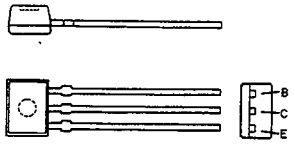
	288P08501	FAN-MOTOR
	338P02402	CPM ASSY
	449C08501	CRT SOCKET
	480P63801	SPEAKER
	920P00502	HV BLOCK

AM-3501R BLOCK-DIAGRAM



CABINET EXPLODED VIEW



	STR45111 STR53041
	2SC710 2SC763
	2SB885 2SC2073 2SD401
	2SA673※ 2SA950 2SA1038 2SA1091 2SA1123 2SA1371 2SA2655 2SC1213※ 2SC1214 2SC2229 2SC2236 2SC2274 2SC2389 2SC2482 2SC2631 2SC2901 2SC3468
	2SA673※ 2SC1213※
	2SA1115 2SC2603 2SC2724
	2SC3997
	2SD1881
	2SC2611 2SC2688 2SC3598
	2SA958 2SB940 2SC1826 2SC1983 2SC2168 2SC3183 2SC4256 2SD386 2SD1264
	2SC3789
	2SA1175 2SC2785
	2SD1555

※2SA673, 2SC1213 has two type of shapes as shown in.

CHASSIS WAVEFORMS


①1.2Vp-p(H)


②1.5Vp-p(H)


③1.0Vp-p(H)


④11Vp-p(H)


⑤0.5Vp-p(H)


⑥11Vp-p(H)


⑦4.5Vp-p(V)


⑧2.1Vp-p(V)


⑨1.0Vp-p(H)

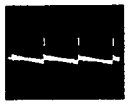

⑩5.2Vp-p(H)


⑪0.44Vp-p(H)


⑫0.44Vp-p(H)


⑬0.44Vp-p(H)

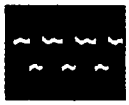

⑭0.9Vp-p(H)


⑮130Vp-p(V)


⑯0.32Vp-p(H)

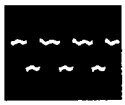

⑰0.2Vp-p(H)


⑱610Vp-p(H)


⑲370Vp-p(H)


⑳240Vp-p(H)


㉑220Vp-p(H)


㉒350Vp-p(H)


㉓270Vp-p(H)


㉔220Vp-p(H)


㉕380Vp-p(H)


㉖220Vp-p(H)


㉗40mVp-p(H)


㉘330Vp-p(H)


㉙1200Vp-p(H)

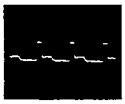

㉚1200Vp-p(H)


㉛5.8Vp-p


㉜0.15Vp-p(H)

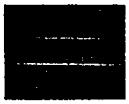

㉝0.64Vp-p(H)

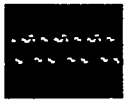

㉞4.0Vp-p(V)

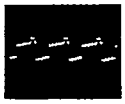

㉟9.5Vp-p(H)


㊱4.4Vp-p(H)


㊲11Vp-p(H)


㊳5.6Vp-p(H)


㊴140Vp-p(H)


㊵120Vp-p(H)

㊶110Vp-p(H)

㊷60Vp-p(H)

㊸3.7Vp-p(H)

㊹3.0Vp-p(H)

㊺2.8Vp-p(H)

㊻4.0Vp-p(H)

㊼2.8Vp-p(H)

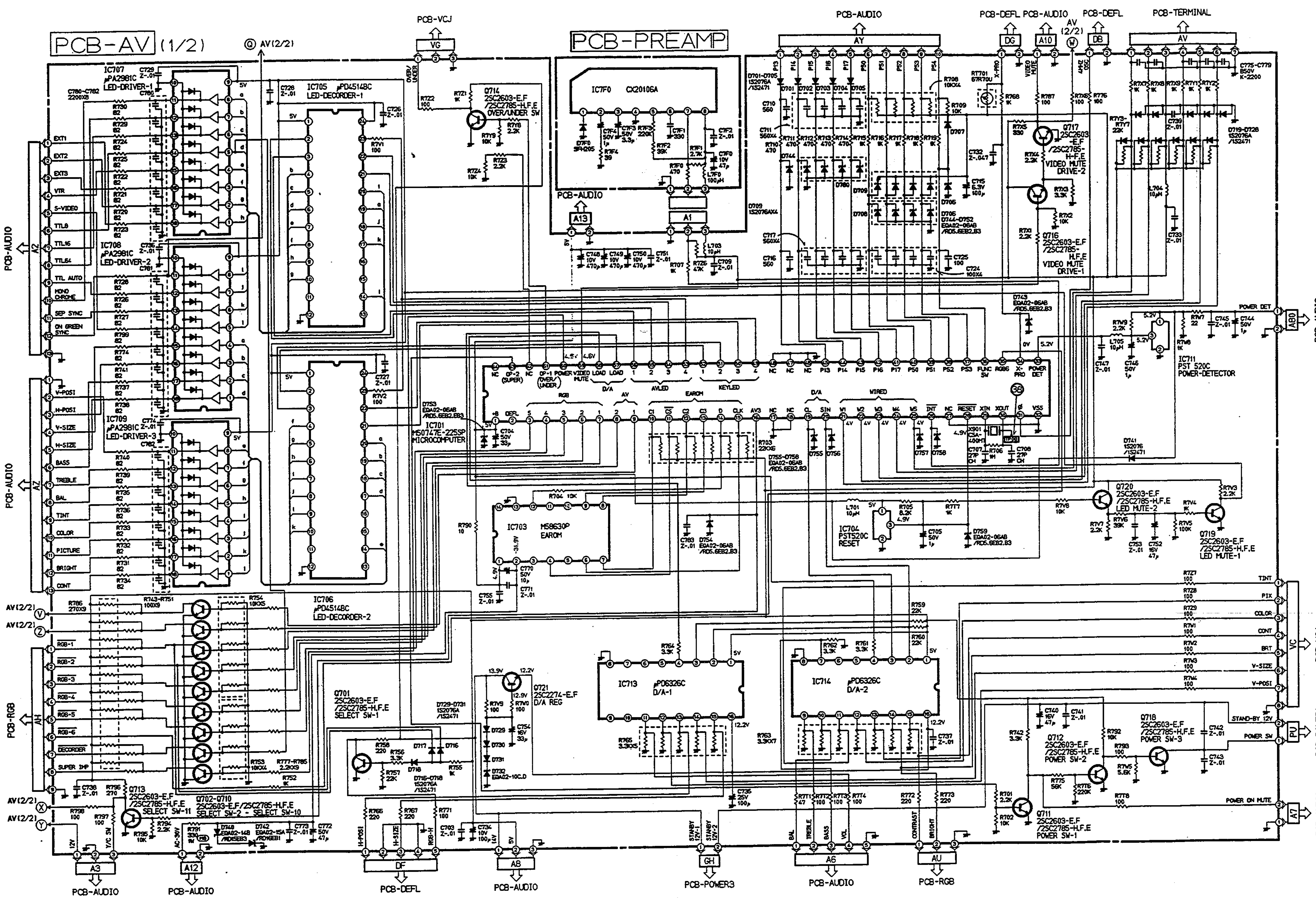
㊽1.6Vp-p(H)

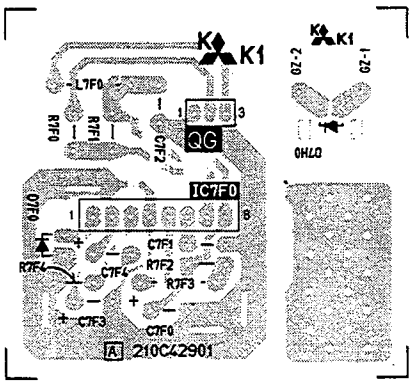
㊾4.6Vp-p(H)

㊿4.8Vp-p(V)

(51)2.3Vp-p(H)

(52)1.2Vp-p(H)


PCB-AV (1/2)
PCB-PREAMP
IC707 μPA2981C LED-DRIVER-1
IC708 μPA2981C LED-DRIVER-2
IC709 μPA2981C LED-DRIVER-3
IC705 μPD4514BC LED-DECORDER-1
IC706 μPD4514BC LED-DECORDER-2
IC701 M50747E-225SP MICROCOMPUTER
IC703 M58630P EAROM
IC704 PST520C RESET
IC711 PST 520C POWER-DETECTOR
IC713 μPD6326C D/A-1
IC714 μPD6326C D/A-2
IC7F0 CX20106A
Q714 2SC2603-E,F /2SC2785-H,F,E OVER/UNDER SW
Q717 2SC2603-E,F /2SC2785-H,F,E VIDEO MUTE DRIVE-2
Q716 2SC2603-E,F /2SC2785-H,F,E VIDEO MUTE DRIVE-1
Q720 2SC2603-E,F /2SC2785-H,F,E LED MUTE-2
Q719 2SC2603-E,F /2SC2785-H,F,E LED MUTE-1
Q701 2SC2603-E,F /2SC2785-H,F,E SELECT SW-1
Q721 2SC2274-E,F D/A REG
Q713 2SC2603-E,F /2SC2785-H,F,E SELECT SW-11
Q702-Q710 2SC2603-E,F/2SC2785-H,F,E SELECT SW-2 - SELECT SW-10
Q712 2SC2603-E,F /2SC2785-H,F,E POWER SW-2
Q718 2SC2603-E,F /2SC2785-H,F,E POWER SW-3
Q711 2SC2603-E,F /2SC2785-H,F,E POWER SW-1
PCB-VCJ
PCB-AUDIO
PCB-DEFL
PCB-TERMINAL
PCB-RGB
PCB-POWER1
PCB-POWER3
AV(2/2)


K1
L7F0
R7F0
R7F1
C7F2
QG
IC7F0
Q7F0
R7F4
C7F1
R7F2
C7F4
R7F3
C7F3
C7F0
A 210C42901
K1
Q7-2
Q7-1
Q7H0

PCB-PRE-AMP

MITSUBISHI

SCHEMATIC DIAGRAM

MODEL : AM-350 I R

NOTE 1:

1. The unit of resistance "ohm" no symbol.
   Accordingly, K = 1000 ohms
   M = 1000K ohms.
2. The wattage of resistor, if not specifically designated, is 1/4 watt.
3. Resistors, if not specifically designated, are carbon resistors.
4. The marks of resistors are as follows:
   - (CE) : Cemented resistor
   - (MB) : Metal oxide film resistor (type B)
   - (MPC) : Metal plate cement resistor.
   - (CM) : Cement metal oxide film resistor.
   - (S) : Fixed composition resistor
   - (W) : Wire wound resistor
   - (M) : Metal film resistor
5. The tolerance of resistor value is:
   Not specified=±5%, K=±10% M=±20%
6. The unit of capacitance, if not specifically designated, is:
   a) μF, for numbers less than 1
   b) PF, for numbers more than 1
7. Capacitors, if not specifically designated are Ceramic capacitors except electrolytic capacitors.
8. The marks of capacitors are as follows:
   - (ALM) : Aluminus electrolytic capacitor
   - (MF) : Polyester capacitor
   - (PP) : Polypropylene film capacitor
   - (TANT) : Tantalum capacitor
   - (TF) : Twin film capacitor.
   - (MF.PP) : Polyester polypropylene film capacitor.
   - (MPP) : Metallize plastic film capacitor.
   - (NP) : Non polarized electrolytic capacitor.
   - (SC) : Semi conductor capacitor.
   - : Electrolytic capacitor
9. The DC working voltage of capacitor, if not specifically designated is: 50V
10. The tolerance of capacitor value, if not specifically designated is: ±10% for polyester capacitor
    ±5% for ceramic capacitor
    and J =±5% K =±10% M =±20% P = $^{+100\%}_{-\ 0\%}$
    C =±0.25PF D = ±0.5PF F =±1PF Z = $^{+80\%}_{-20\%}$ N=±30%

SPECIFIC SYMBOL	
Zener Diode	Varistor
Varicap	Crystal unit
Posistor	Air Gap
Thermistor	Part (resistor) attached on the copper-foil side of PCB
Fusible Resistor	Ceramic filter

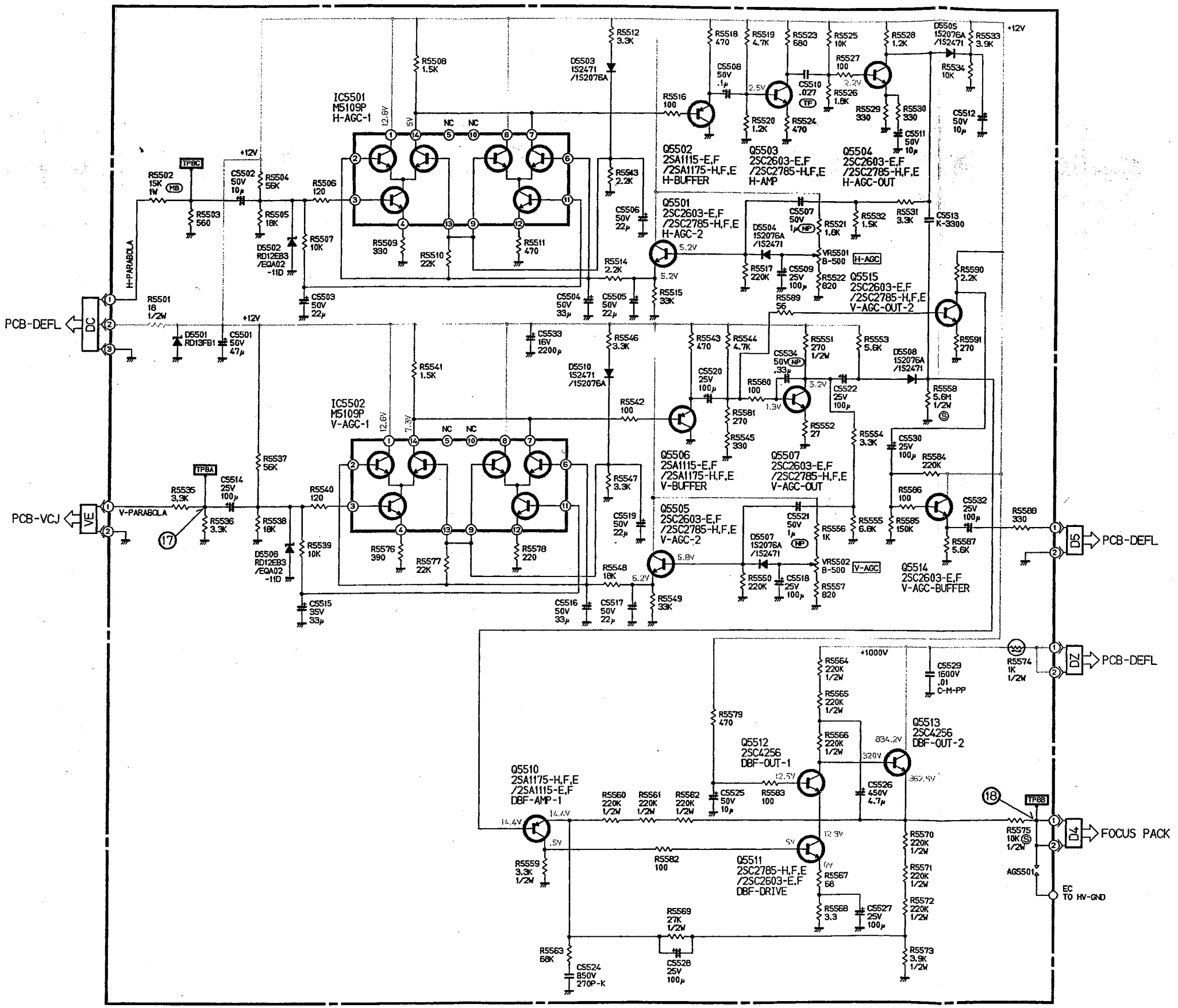
NOTE 2:

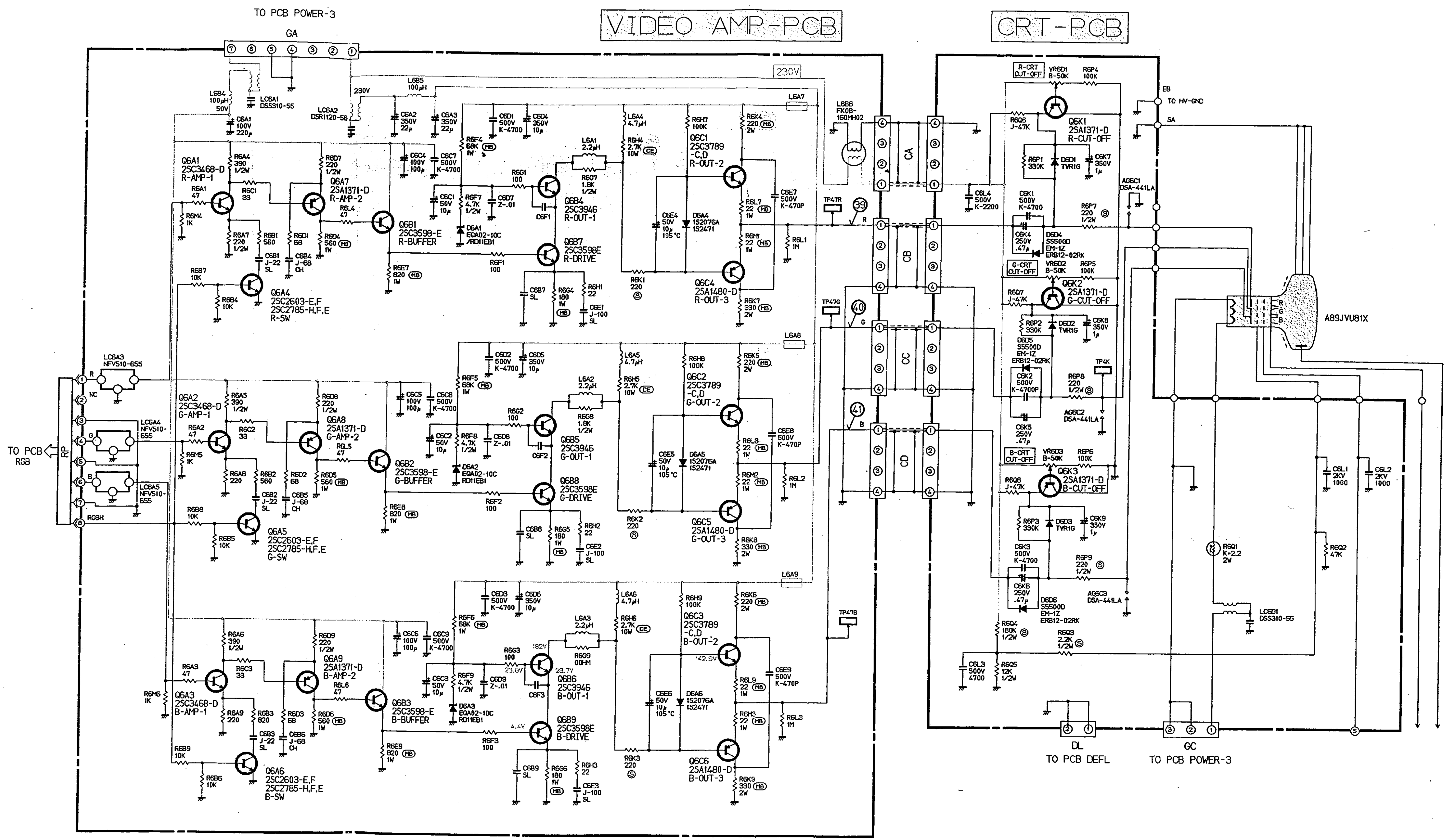
1. **DC voltages were measured from points indicated to the circuit ground with a VTVM.**
   Line voltage at 120V AC on signal applied.
2. **Waveforms were taken with offset rainbow color bar signal.**
3. **This is a basic schematic diagram. Some sets may be subject to modification according to engineering improvement.**

SHADED COMPONENTS HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS READ CAREFULLY THE PRODUCT SAFETY NOTICE IN THE SERVICE MANUAL. DON'T DEGRADE THE SAFETY OF THE RECEIVERS THROUGH IMPROPER SERVICING.

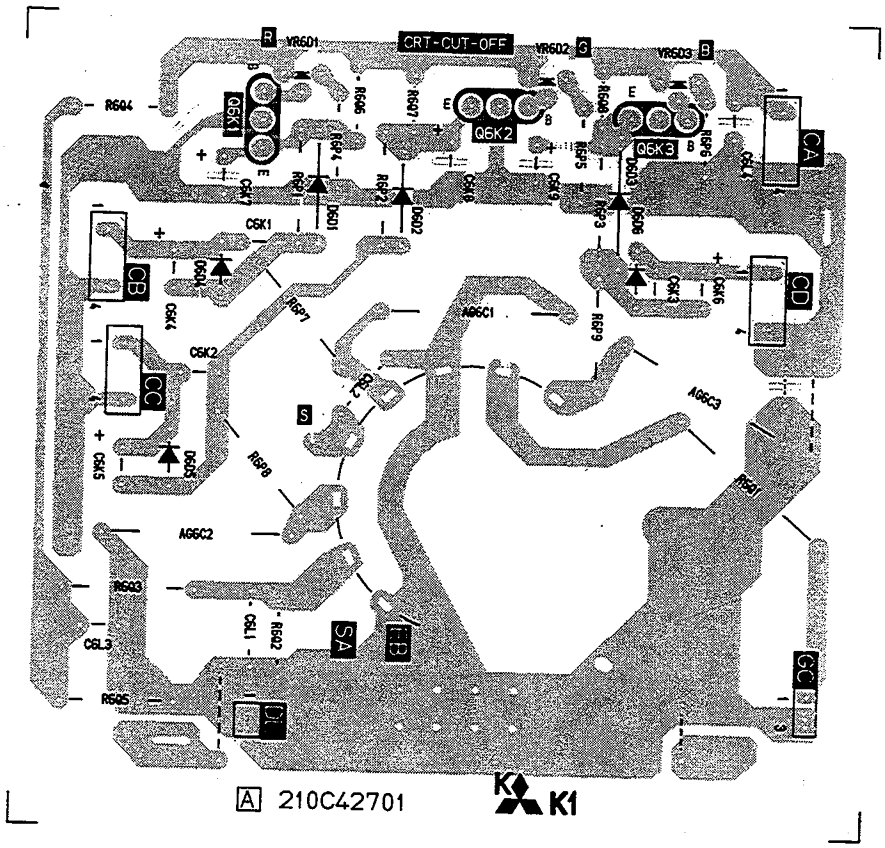
SERVICE MAN WARNING
X-RADIATION PRECAUTION
THIS PRODUCT INCLUDES CRITICAL ELECTRICAL AND MECHANICAL PARTS ESSENTIAL FOR X-RADIATION PROTECTION.
TO AVOID POSSIBLE EXPOSURE TO X-RADIATION TAKE X-RADIATION PROTECTIVE MEASURES FOR PERSONNEL DURING SERVICING.
SEE SERVICE INSTRUCTIONS FOR SPECIFIED REPLACEMENT PARTS AND SERVICE ADJUSTMENTS.

PCB-DBF


PCB-DEFL
DC
H-PARABOLA
R5501 18 1/2W
R5502 15K 1W MB
TPBC
C5502 50V 10µ
R5504 56K
R5505 18K
R5503 560
D5502 RD12EB3 /EQA02 -11D
R5506 120
R5507 10K
C5503 50V 22µ
D5501 RD13FB1
C5501 50V 47µ
+12V
IC5501 M5109P H-AGC-1
12.6V
5V
NC NC
R5508 1.5K
R5509 330
R5510 22K
R5511 470
R5512 3.3K
D5503 1S2471 /1S2076A
R5543 2.2K
C5506 50V 22µ
C5504 50V 33µ
C5505 50V 22µ
R5514 2.2K
R5515 33K
Q5501 2SC2603-E,F /2SC2785-H,F,E H-AGC-2
5.2V
R5516 100
Q5502 2SA1115-E,F /2SA1175-H,F,E H-BUFFER
R5518 470
R5519 4.7K
R5520 1.2K
C5508 50V .1µ
2.5V
R5523 680
C5510 .027 TF
R5524 470
Q5503 2SC2603-E,F /2SC2785-H,F,E H-AMP
R5525 10K
R5526 1.8K
R5527 100
2.2V
R5528 1.2K
R5529 330
R5530 330
C5511 50V 10µ
Q5504 2SC2603-E,F /2SC2785-H,F,E H-AGC-OUT
D5505 1S2076A /1S2471
R5533 3.9K
R5534 10K
C5512 50V 10µ
+12V
C5507 50V 1µ NP
R5521 1.6K
R5532 1.5K
R5531 3.3K
C5513 K-3300
D5504 1S2076A /1S2471
VR5501 B-500 H-AGC
R5517 220K
C5509 25V 100µ
R5522 820
Q5515 2SC2603-E,F /2SC2785-H,F,E V-AGC-OUT-2
R5589 56
R5590 2.2K
R5591 270
PCB-VCJ
VE
V-PARABOLA
TPBA
R5535 3.3K
C5514 25V 100µ
R5536 3.3K
R5537 56K
R5538 18K
R5540 120
R5539 10K
D5506 RD12EB3 /EQA02 -11D
C5515 35V 33µ
IC5502 M5109P V-AGC-1
12.6V
7.3V
NC NC
R5541 1.5K
R5576 390
R5577 22K
R5578 220
R5542 100
R5547 3.3K
C5519 50V 22µ
R5548 18K
6.2V
R5549 33K
C5516 50V 33µ
C5517 50V 22µ
C5533 16V 2200µ
D5510 1S2471 /1S2076A
R5546 3.3K
R5543 470
R5544 4.7K
C5520 25V 100µ
R5580 100
1.3V
R5581 270
R5545 330
Q5506 2SA1115-E,F /2SA1175-H,F,E V-BUFFER
R5551 270 1/2W
R5553 5.6K
C5534 50V NP .33µ
3.2V
C5522 25V 100µ
R5552 27
Q5507 2SC2603-E,F /2SC2785-H,F,E V-AGC-OUT
D5508 1S2076A /1S2471
R5558 5.6M 1/2W S
R5554 3.3K
C5530 25V 100µ
R5584 220K
R5586 100
R5585 150K
C5532 25V 100µ
R5587 5.6K
R5588 330
D5
PCB-DEFL
Q5505 2SC2603-E,F /2SC2785-H,F,E V-AGC-2
5.8V
D5507 1S2076A /1S2471
C5521 50V 1µ NP
R5556 1K
R5555 6.6K
VR5502 B-500 V-AGC
R5550 220K
C5518 25V 100µ
R5557 820
Q5514 2SC2603-E,F V-AGC-BUFFER
+1000V
R5564 220K 1/2W
R5565 220K 1/2W
R5566 220K 1/2W
C5529 1600V .01 C-M-PP
R5574 1K 1/2W
DZ
PCB-DEFL
R5579 470
Q5512 2SC4256 DBF-OUT-1
834.2V
320V
Q5513 2SC4256 DBF-OUT-2
362.5V
12.5V
C5525 50V 10µ
R5583 100
C5526 450V 4.7µ
Q5510 2SA1175-H,F,E /2SA1115-E,F DBF-AMP-1
14.4V
R5560 220K 1/2W
R5561 220K 1/2W
R5562 220K 1/2W
18
TPBB
R5575 10K S 1/2W
D4
FOCUS PACK
AGS501
EC TO HV-GND
R5559 3.3K 1/2W
.5V
R5582 100
12.9V
5V
Q5511 2SC2785-H,F,E /2SC2603-E,F DBF-DRIVE
6V
R5567 68
R5568 3.3
C5527 25V 100µ
R5570 220K 1/2W
R5571 220K 1/2W
R5572 220K 1/2W
R5573 3.9K 1/2W
R5569 27K 1/2W
C5528 25V 100µ
R5563 68K
C5524 B50V 270P-K

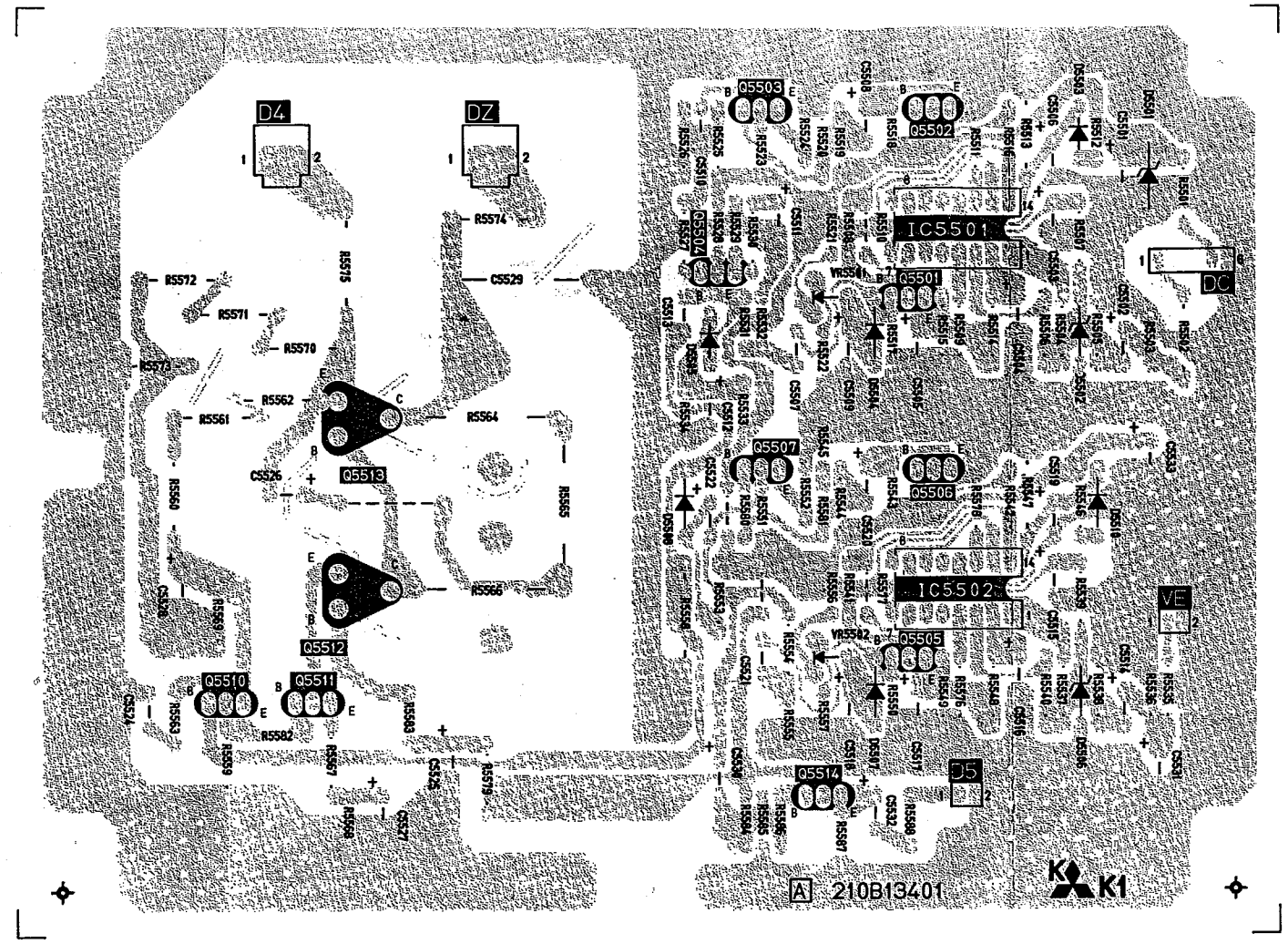


VIDEO AMP-PCB
CRT-PCB
TO PCB POWER-3
GA
TO PCB RGB
RP
CA
CB
CC
CD
TO HV-GND
DL
TO PCB DEFL
GC
TO PCB POWER-3
A89JVU81X

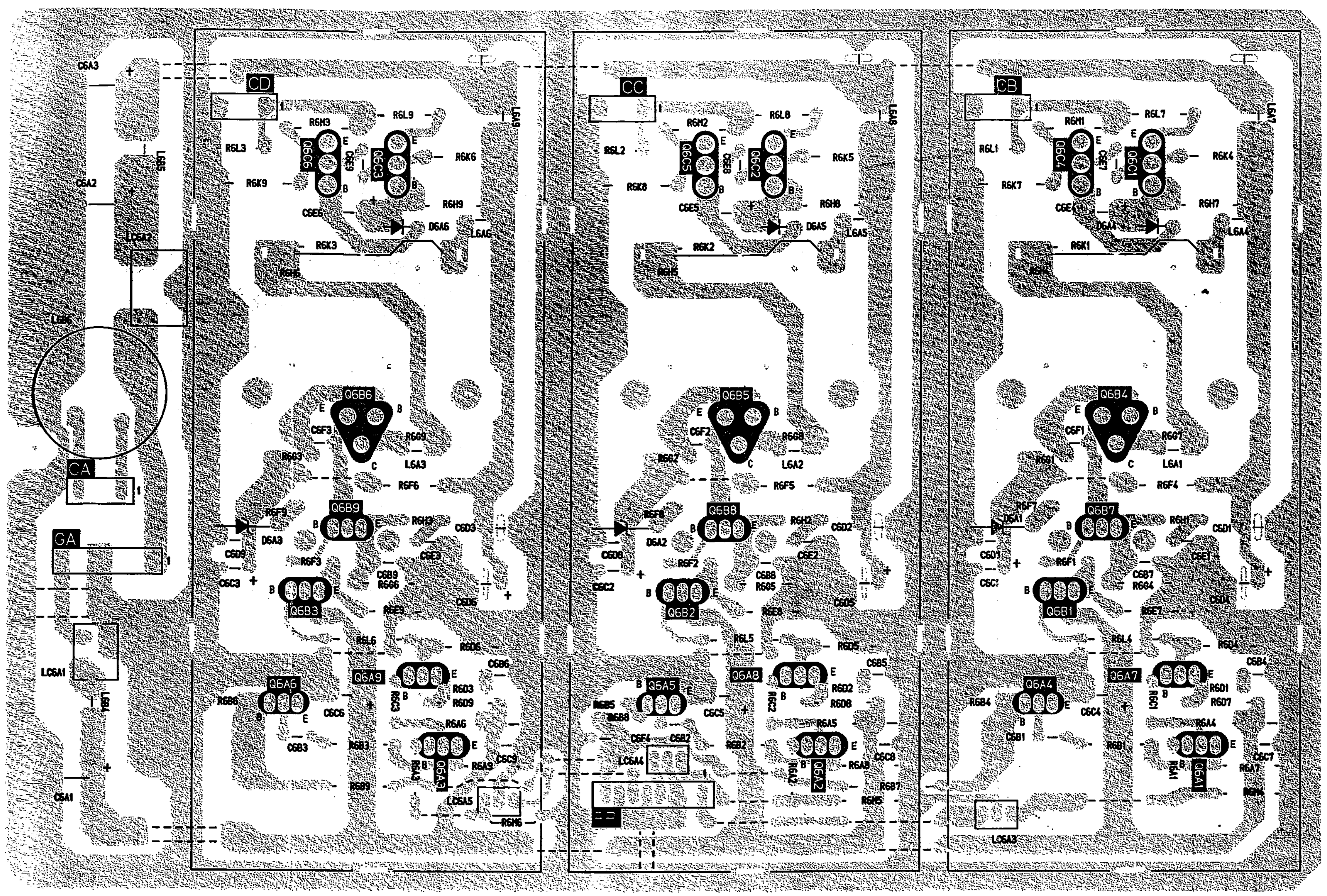


CRT-CUT-OFF
VR601
VR602
VR603
Q6K1
Q6K2
Q6K3
CA
CB
CC
CD
SA
GC
210C42701
K1

PCB-CRT

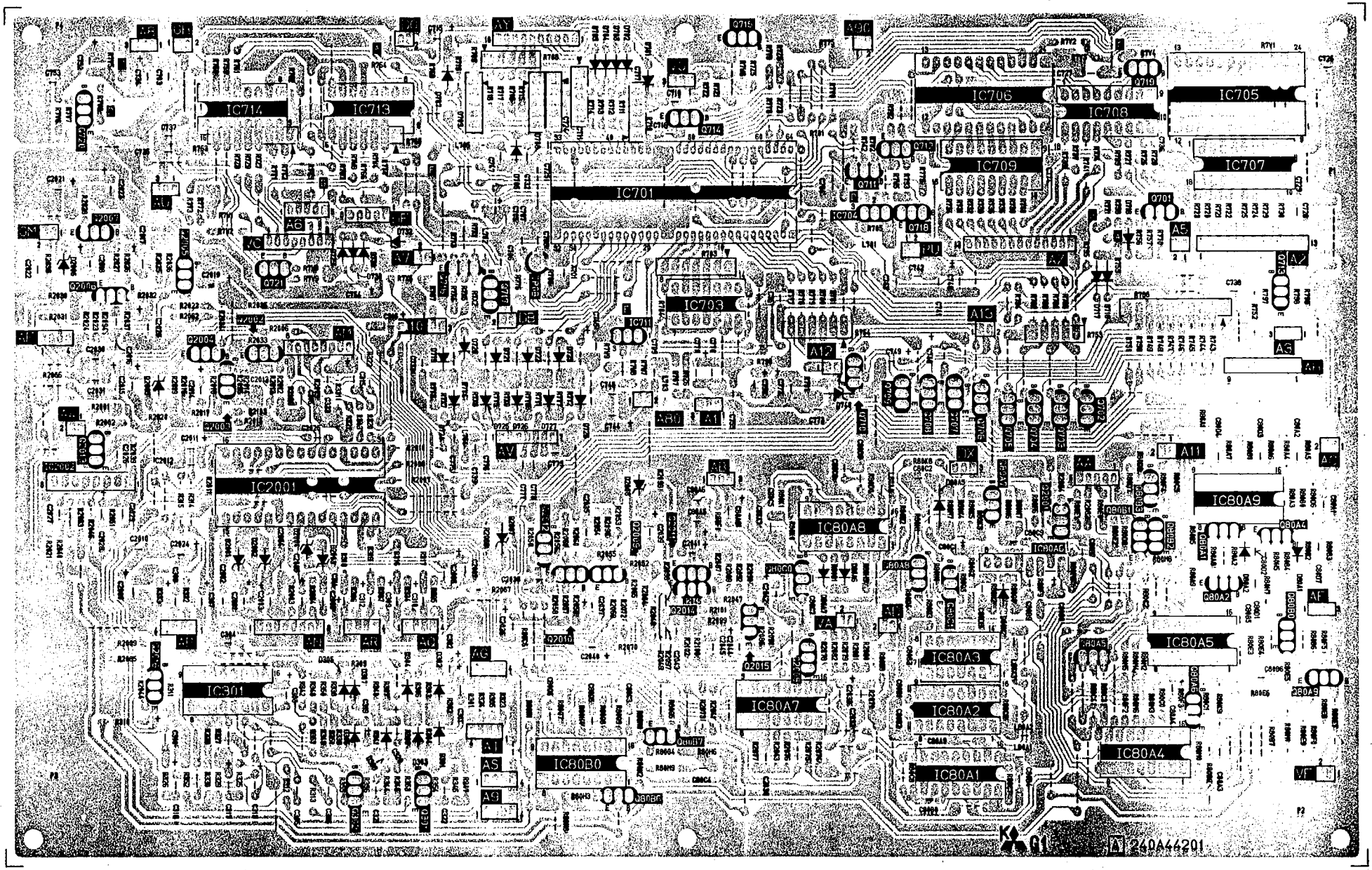

D4
DZ
IC5501
IC5502
Q5501
Q5502
Q5503
Q5504
Q5505
Q5506
Q5507
Q5510
Q5511
Q5512
Q5513
Q5514
DC
VE
J5
A 210B13401
K0 K1

PCB-DBF

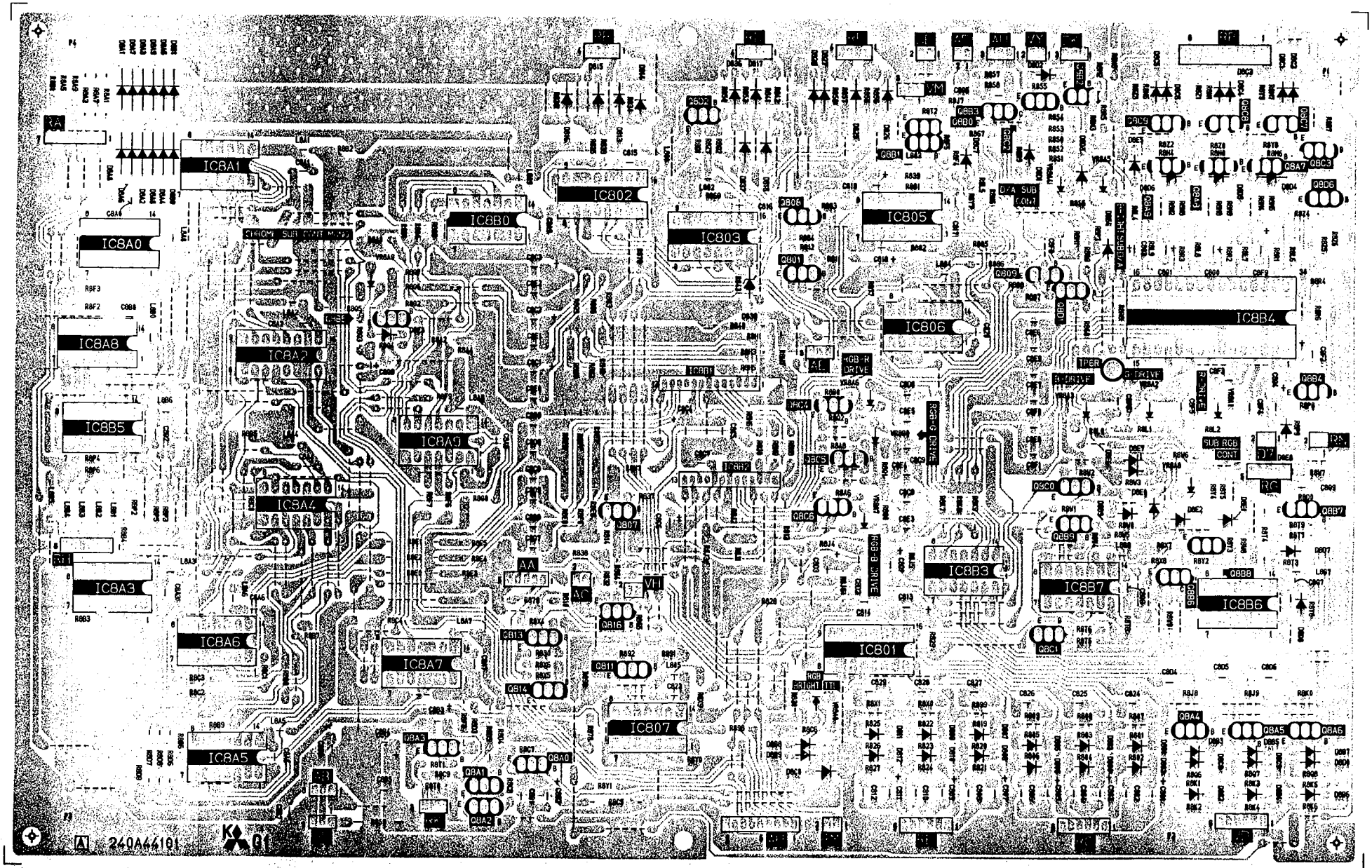


K1 [A] 240A44001

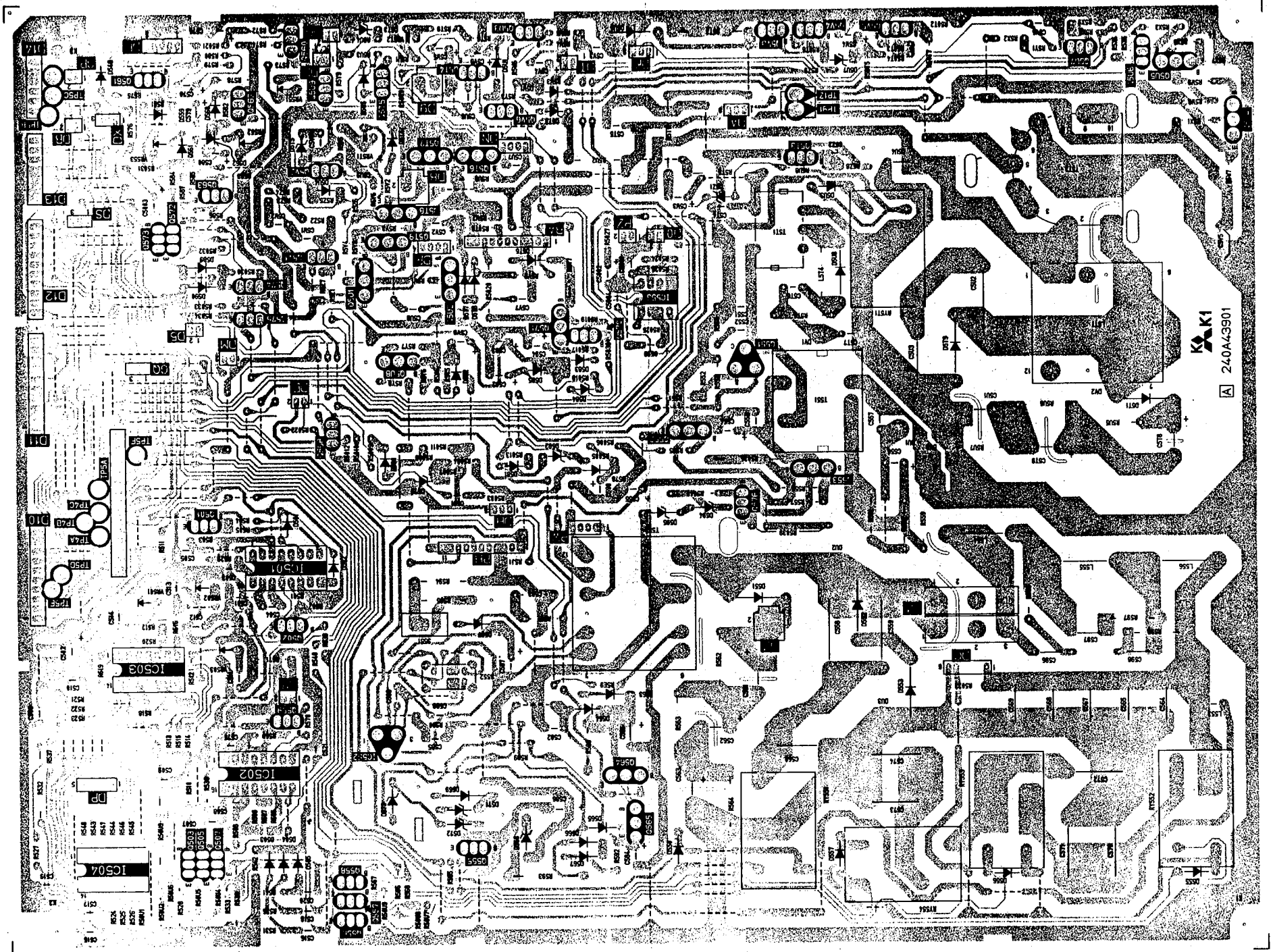
PCB-VIDEO-AMP

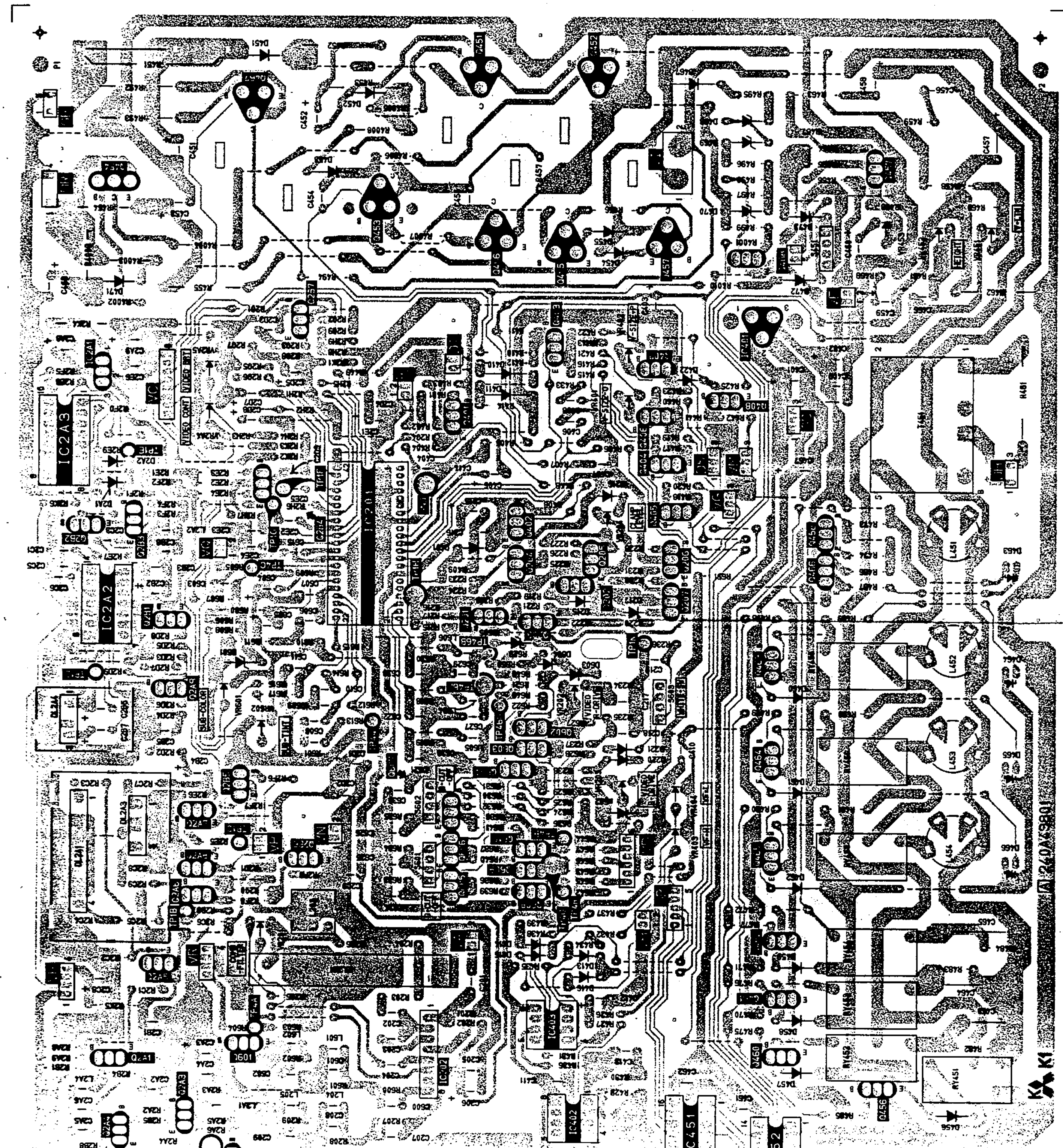

IC714
IC713
IC701
IC706
IC708
IC705
IC709
IC707
IC703
IC2001
IC80A8
IC80A9
IC80A6
IC80A5
IC80A3
IC301
IC80A7
IC80A2
IC80A4
IC80B0
IC80A1
240A44201

PCB-AV


IC8A1
IC802
IC8B0
IC8A0
IC803
IC805
IC8A8
IC8A2
IC806
IC8B4
IC8B5
IC8A9
IC8A4
IC8B3
IC8B7
IC8B6
IC8A3
IC8A6
IC8A7
IC801
IC807
IC8A5
240A44101

PCB-RGB


K1
A 240A43901
IC501
IC502
IC504
IC506



SYMBOL NO.	PART NO.	PART NAME	DESCRIPTION
RY455	287P04701	POWER RELAY	G6B-1114P
RY551	287P05001	RELAY	G4W-1112P
RY552	287P05001	RELAY	G4W-1112P
RY553	287P05001	RELAY	G4W-1112P
RY554	287P05001	RELAY	G4W-1112P
RY5T1	287P05001	RELAY	G4W-1112P
X 601	285P01501	CRYSTAL RESONATOR	HC-18/U
X 701	285P02902	CRYSTAL RESONATOR	HC-49/U
K 9051	287D02401	DH12D1-0 (M)	
K 9052	287D02402	DG12D1-0 (M)	
RP9001	265D03001	PTH451C42BF5R0M140	
RT701	265P08301	THERMISTOR	67R70U

PRINTED CIRCUIT BOARDS

★		DEFL PCB ASSY
★		CRT PCB ASSY
★		SCAN PCB ASSY
★		SVM PCB ASSY
★		VCJ PCB ASSY
★		RGB PCB ASSY
★		AUDIO PCB ASSY
★		VIDEO-AMP PCB ASSY
★		CONTROL PCB ASSY
★		LED PCB ASSY
★		AV PCB ASSY
★		DBF PCB ASSY
★		POWER UNIT-1 ASSY
★		POWER UNIT-2 ASSY
★		POWER UNIT-3 ASSY

★ NOT STOCKED ITEM.

COSMETIC PARTS

	242C89301	AC POWER CORD
	440B07101	TERMINAL BOARD
	440B07102	TERMINAL BOARD
	701A35903	FRONT PANEL ASSY
	702A18407	GRILLE SP
	704C49303	POWER KNOB
	712C52203	DOOR
	734D29402	KNOB
	734D33901	PUSH KNOB
	734D34401	PUSH KNOB

SYMBOL NO.	PART NO.	PART NAME	DESCRIPTION
	734D34601	SLIDE KNOB	
	734D36801	PUSH KNOB	
	761B10603	CRT COVER	
	761C27301	DOOR CATCH	25C781
	762B24701	BACK BOARD	
	960D06901	CABINET	

PACKING PARTS AND ACCSESSORY

	802B17201	PACKING CASE
	802B17202	PACKING CASE
	802B17203	PACKING CASE
	802B17204	PACKING CASE
	802B17205	PACKING CASE
	803C25904	PACKING CUSHION
	829D13507	CUSHION
	831D11009	PACKING BAG
	831D17409	PACKING BAG
	871C79102	INSTRUCTION BOOK
	939P21501	REMOTE HAND UNIT

PRINTED IN U.S.A.

871C33709