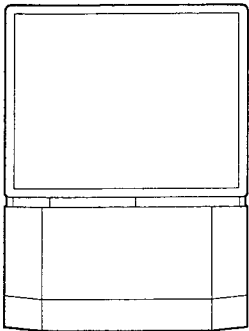
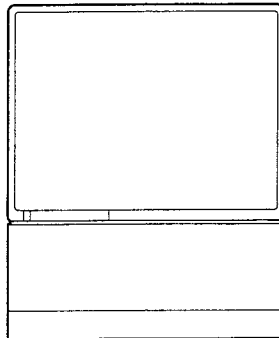
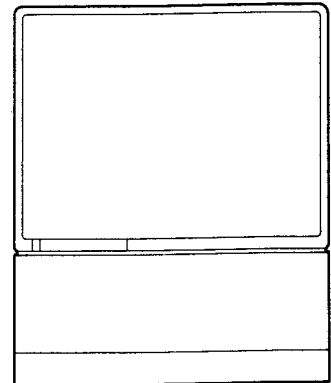


PROJECTION TELEVISION
VZ1 Chassis

MODEL
VS-40VA2

MODEL
VS-45VA1/VA2/VA2CA
VS-50VA1/VA2/VA2CA

MODEL
VS-60VA2/VA2CA
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	AC 120V 60Hz	• Weight	193.8lbs(VS-40VA2)
• Power Consumption	260W		207.0lbs(VS-45VA1/VA2/VA2CA)
• Reception	VHF 54~168, 174~468MHz		207.0lbs(VS-50VA1/VA2/VA2CA)
• Frequency	UHF 470~806MHz		262.1lbs(VS-60VA2/VA2CA)
• Antenna Input	VHF 75 ohm unbalanced	• Input	2 -Video inputs
	UHF 75 ohm unbalanced		1.0Vp-p 75 ohm (RCA JACK)
• CRT	VT07M72JB22(R.G.B)		2-Audio inputs (L/R)
	Hybrid (Magnetic + Static)		over 10k ohm -7dB (RCA JACK)
	Focus		S-input (Y/C Separate input)
			75 ohm
• Intermediate Frequency	Video IF Carrier 45.75MHz		Y: 1.0Vp-p C: 0.286Vp-p (Burst)
	Sound IF Carrier 41.25MHz	• Output	2-Video output
	Color IF Carrier 42.17MHz		1.0Vp-p 75 ohm (RCA JACK)
• High Voltage	32.0kV (at 0μA)		2-Audio output (L/R)
• Speaker	4.7"×7.1"oval 2cps		(RCA JACK)
	2.0"round 2cps		2-Speaker outputs (L/R)
• Cabinet Dimensions			8 ohm
	34.5"(W) x 45.9"(H) x 27.0"	• Effective picture size	40" diagonal (VS-40VA2)
	(VS-40VA2)		45" diagonal (VS-45VA1/VA2/VA2CA)
	39.8"(W) x 49.9"(H) x 21.5"		50" diagonal (VS-50VA1/VA2/VA2CA)
	(VS-45VA1/VA2/VA2CA)		60" diagonal (VS-60VA2/VA2CA)
	44.3"(W) x 52.4"(H) x 23.0"		
	(VS-50VA1/VA2/VA2CA)		
	49.4"(W) x 56.7"(H) x 26.3"		
	(VS-60VA2/VA2CA)		

SAFETY PRECAUTIONS

NOTICE : Observe all cautions and safety 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 presents a shock hazard from the receiver power supplies. Work on the receiver should not be attempted by anyone who is not thoroughly familiar with the 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 cover page.

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 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 meg ohm. 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

Use the circuit in Fig. 1 to perform this test.

- (1) With switch S1 open, connect the receiver to the measuring circuit. Immediately after connection, measure the leakage current 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 closed, energizing the receiver. Immediately after closing the switch, measure the leakage current 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.

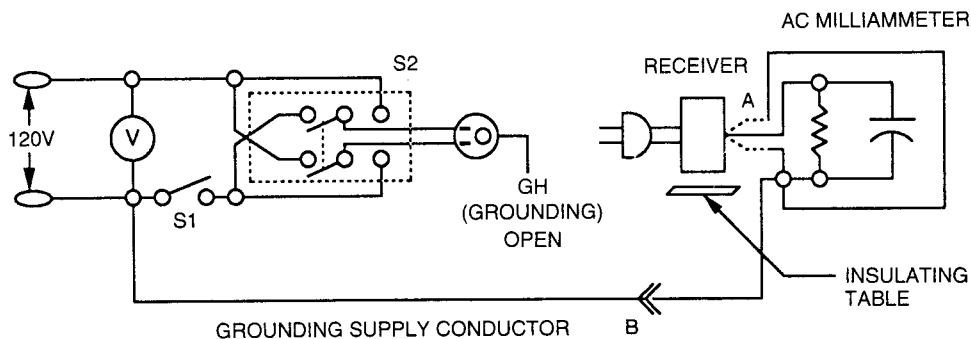


Fig. 1

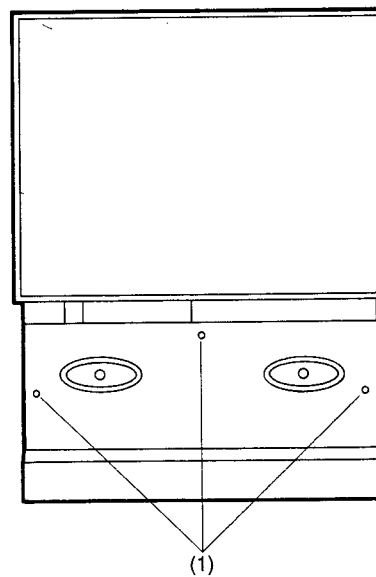
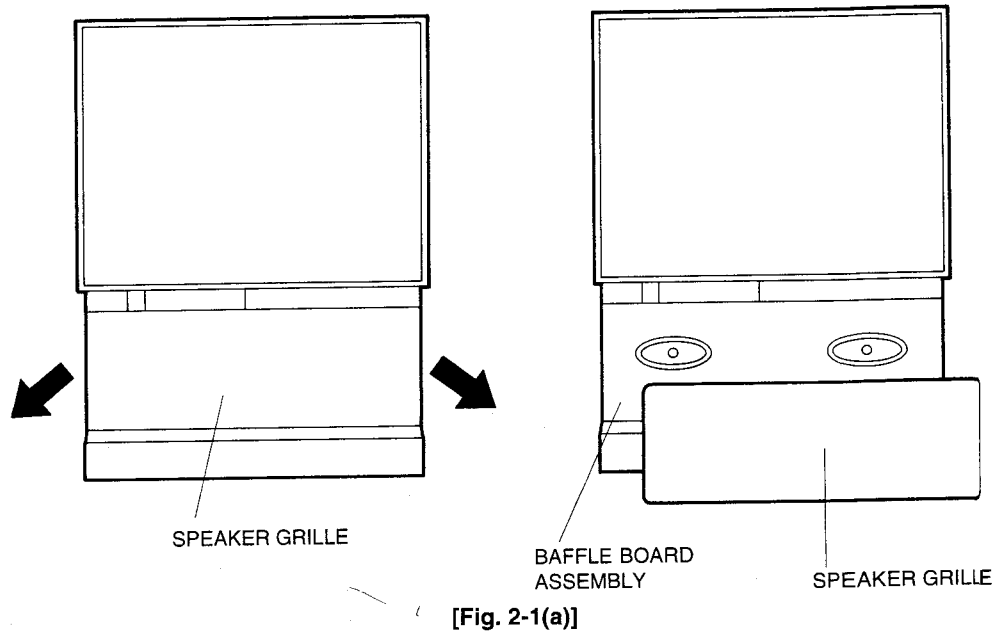
PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the VSS 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 of the supplementary sheet for this chassis to be issued subsequently.

SERVICING

REMOVAL OF BAFFLE BOARD ASSEMBLY 40" Models

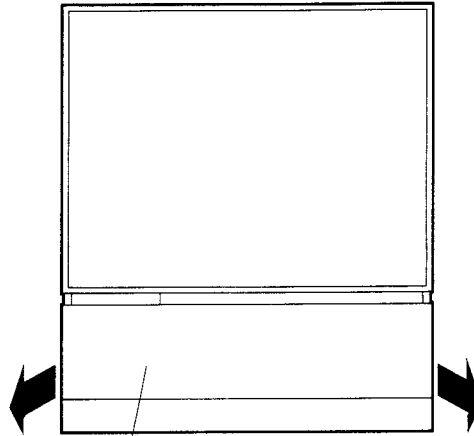
1. Pull the SPEAKER GRILLE forward to remove. [Fig. 2-1(a)]
2. Remove 3 screws (1) retaining BAFFLE BOARD ASSEMBLY. [Fig. 2-1(b)]



SERVICING

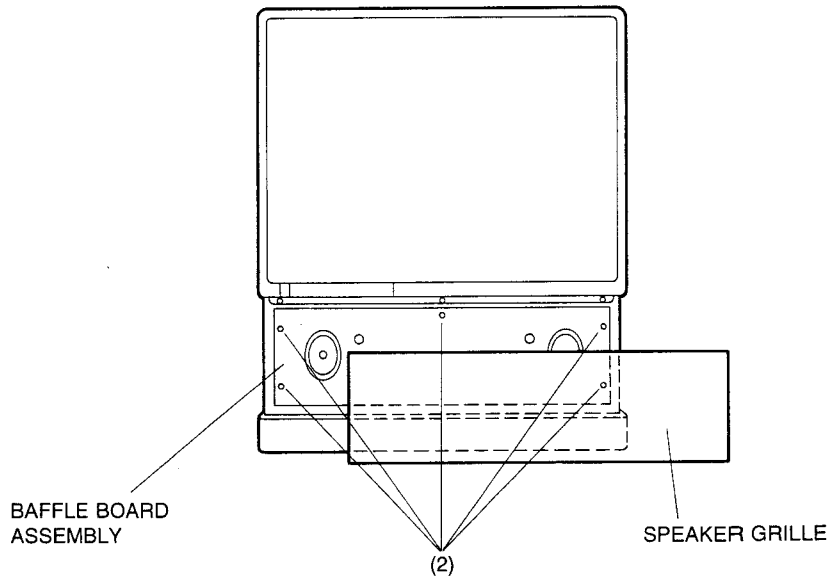
**REMOVAL OF
BAFFLE BOARD
ASSEMBLY
45", 50" and 60"
Models**

1. Pull the SPEAKER GRILLE forward to remove. [Fig. 2-1(c)]
2. Remove 5 screws (2) retaining BAFFLE BOARD ASSEMBLY. [Fig. 2-1(d)]



SPEAKER GRILLE

[Fig. 2-1(c)]



BAFFLE BOARD
ASSEMBLY

SPEAKER GRILLE

(2)

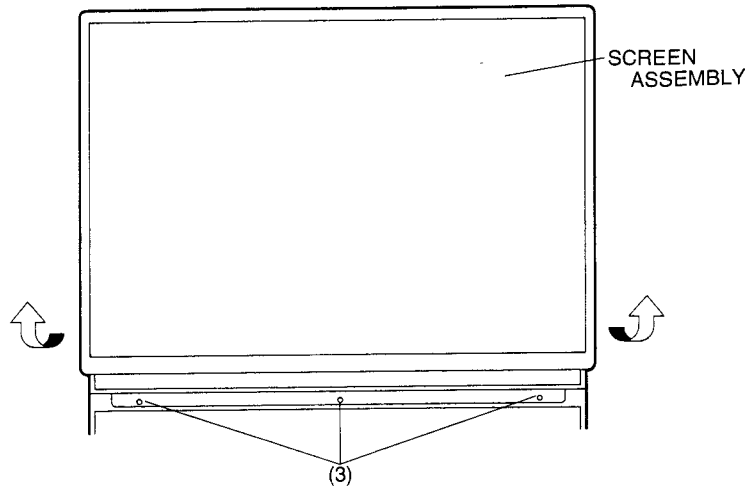
[Fig. 2-1(d)]

SERVICING

REMOVAL OF SCREEN ASSEMBLY

40", 45" and 50" Models

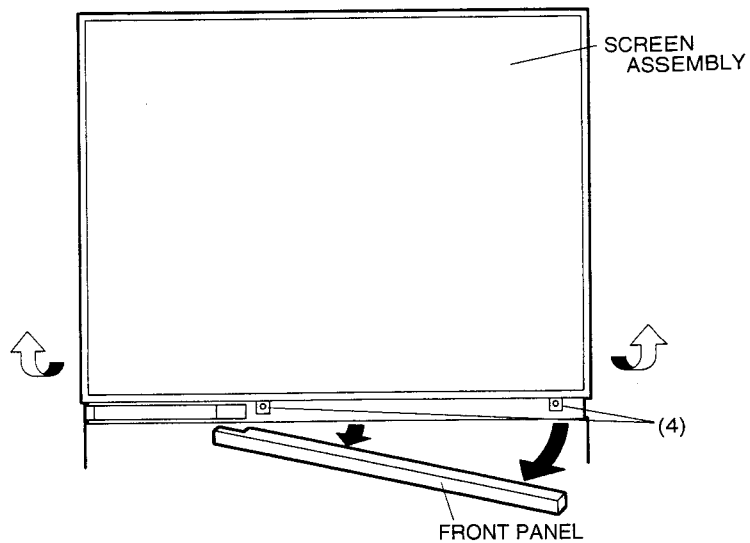
1. Remove the SPEAKER GRILLE. [Refer to Fig. 2-1(a), (c)]
2. Remove the BAFFLE BOARD ASSEMBLY. [Refer to Fig. 2-1(b), (d)]
3. Remove Connectors **ZD**, **ZE** and **ZF**.
4. Remove 3 screws (3) retaining the SCREEN ASSEMBLY. [Fig. 2-2(a)]
5. Remove the SCREEN ASSEMBLY in arrow direction. [Fig. 2-2(a)]



[Fig. 2-2(a)]

60" Models

1. Pull the FRONT PANEL forward to remove. [Fig. 2-2(b)]
2. Remove 2 screws (4) retaining the SCREEN ASSEMBLY. [Fig. 2-2(b)]
3. Remove the SCREEN ASSEMBLY in arrow direction. [Fig. 2-2(b)]



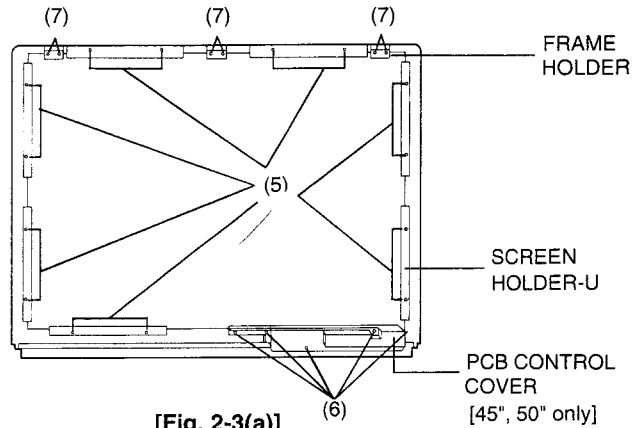
[Fig. 2-2(b)]

SERVICING

REMOVAL OF LENTICULAR SCREEN AND FRESNEL LENS

40", 45" and 50" Models

1. Remove the SPEAKER GRILLE. [Refer to Fig. 2-1(a), (c)]
2. Remove the BAFFLE BOARD ASSEMBLY. [Refer to Fig. 2-1(b), (d)]
3. Remove the SCREEN ASSEMBLY. [Refer to Fig. 2-2(a)]
4. Remove 14 screws (5) retaining the SCREEN HOLDER-U. [Fig. 2-3(a)]
5. Remove 5 screws (6) retaining the PCB-CONTROL COVER. [Fig. 2-3(a)][45", 50"]
6. Remove 6 screws (7) retaining the FRAME HOLDER. [Fig. 2-3(a)]



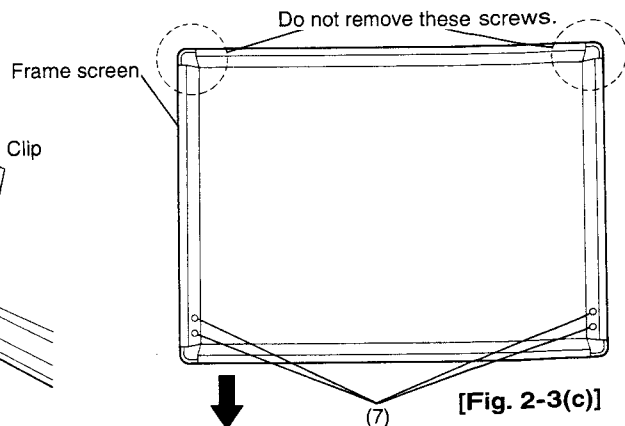
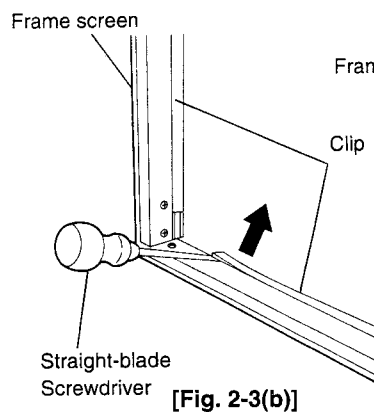
Notes regarding handling of the SCREEN.

1. Wear gloves during handling to prevent scratches and/or fingerprints.
2. Do not handle the fresnel lens outdoors or in direct sunlight.
Never leave it unattended; doing so might result in fire or in someone getting burned.
3. Store in a dry place; absorbed humidity could cause deformation.
4. When the fresnel lens or the lenticular screen are removed, never lean them against a wall or anything else; this might cause warping or bending of the lens or screen.
5. Always handle carefully to prevent scratches or other damage.

60" Models

1. Perform Steps 1 through 3 above.
2. Insert a straight driver under the end of clip at the bottom of the Frame screen. Move up the clip with the driver slightly to remove it. [Fig. 2-3(b)]
3. Remove 4 screws, (7) in Fig. 2-3(c), and the Frame at the bottom in the direction of the arrow. [Fig. 2-3(c)]
4. Remove the Lenticular screen and the Fresnel lens.

NOTE: Strip off pressure sensitive adhesive double coated tape carefully, warming the joint of the Lenticular screen and the Fresnel lens with a heat gun.

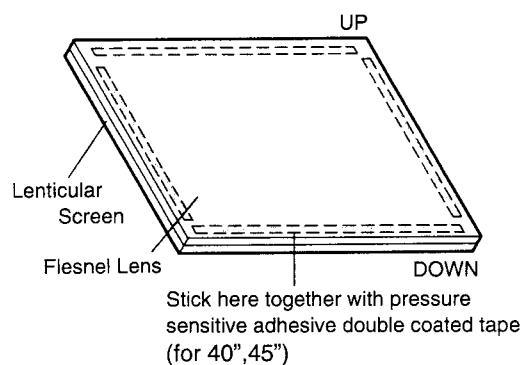


SERVICING

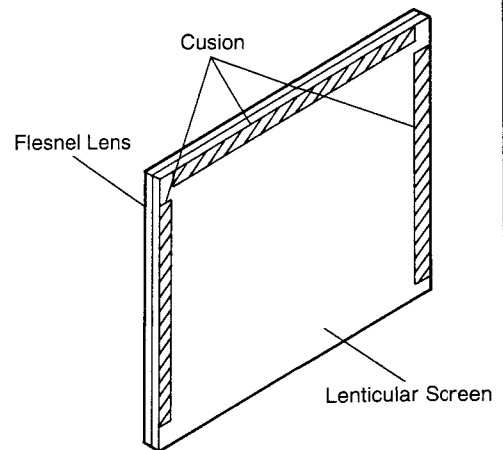
ATTACHMENT OF LENTICULAR SCREEN AND FLESNEL LENS

40", 45" and 50" Models

1. Stick the Lenticular screen and the Flesnel lens together with pressure sensitive adhesive double coated tape. [Fig. 2-4(a)]
2. Stick some cushion at the side of the Lenticular screen. This prevents dusting from vibration between the Frame and the Lenticular screen.
3. Fit the Lenticular screen and the Flesnel lens into the Frame screen.
4. Attach the FRAME HOLDER. [Refer to Fig. 2-3(a)]
5. Attach the SCREEN HOLDER-U. [Refer to Fig. 2-3(a)]
6. Attach the PCB-CONTROL COVER. [Refer to Fig. 2-3(a)][45", 50"]



[Fig. 2-4(a)]



[Fig. 2-4(b)]

60" Models

1. Stick the Lenticular screen and the Flesnel lens together with pressure sensitive adhesive double coated tape. [Fig. 2-4(a)]
2. Stick some cushion at the side of the Lenticular screen. This prevents dusting from vibration between the Frame and the Lenticular screen.
3. Fit the Lenticular screen and the Flesnel lens into the Frame screen.
4. Tighten 4 screws of the Frame screen, (7) in Fig. 2-3(c).
5. Insert the clip onto the Frame screen to fix the Lenticular screen and the Flesnel lens.

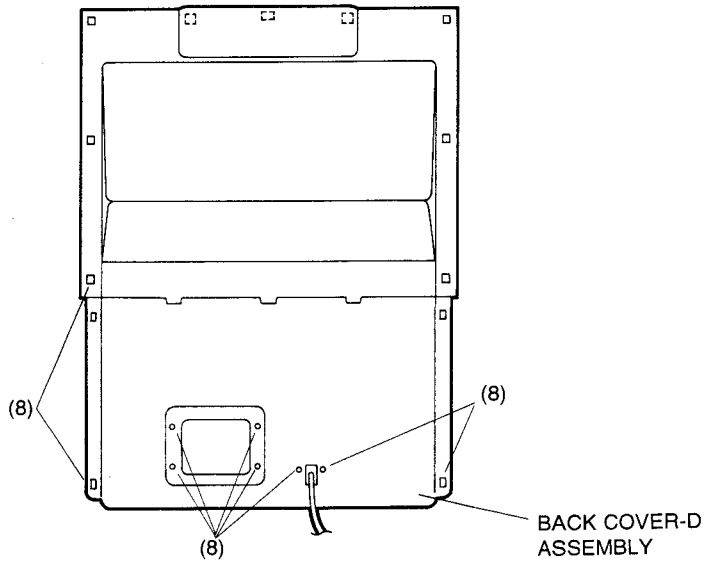
CAUTIONS IN HANDLING LENTICULAR SCREEN AND FLESNEL LENS

1. Wear gloves in handling the Lenticular screen and the Flesnel lens. This prevents cut and finger print fouling.
2. Do not face the Flesnel lens to the sun. This prevents fire and heat injury to persons.
3. Store in a dry place. High humidity causes deformation of Lenticular screen and Flesnel lens.

SERVICING

**REMOVAL OF
BACK-COVER-D
ASSEMBLY
40", 45" and 50"
Models**

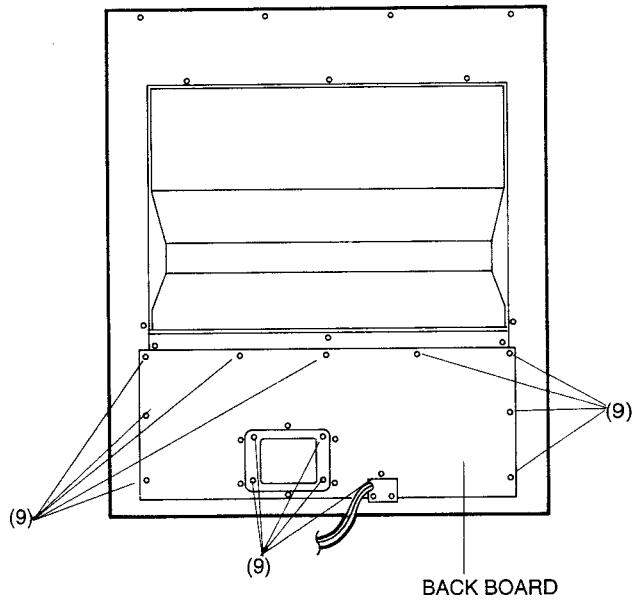
1. Remove 10 screws (8) retaining the BACK COVER-D ASSEMBLY. [Fig. 2-5]



[Fig. 2-5]

**REMOVAL OF
BACK BOARD
60" Models**

1. Remove 14 screws (9) retaining the BACK BOARD. [Fig. 2-6]

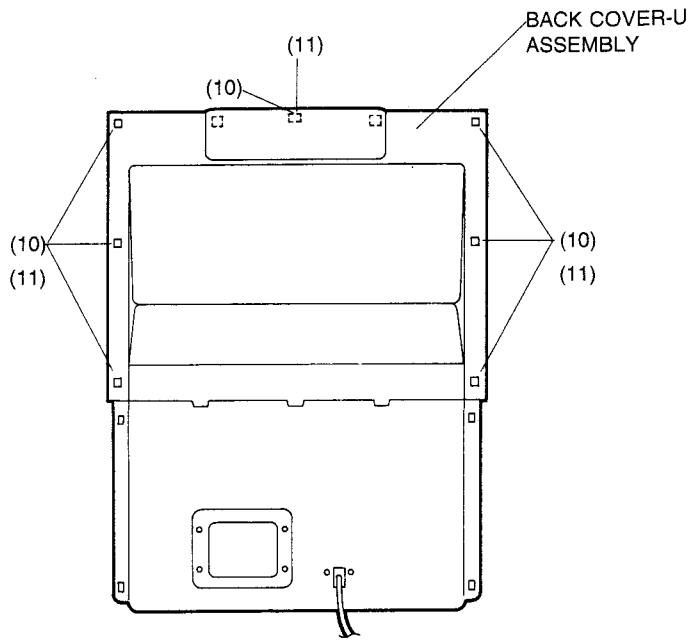


[Fig. 2-6]

SERVICING

**REMOVAL OF
BACK-COVER-U
ASSEMBLY
40", 45" and 50"
Models**

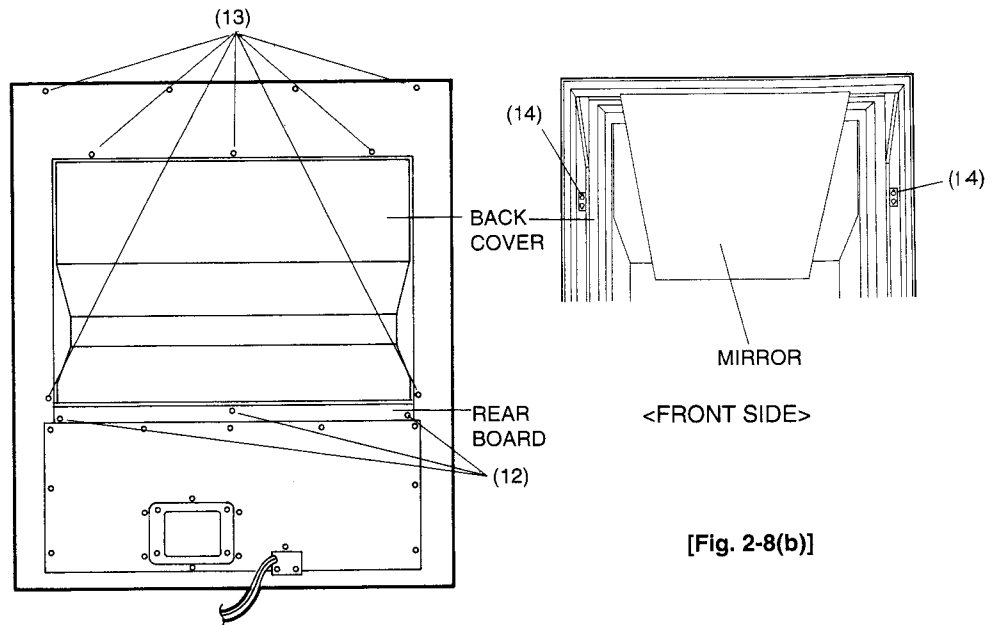
1. Remove the BACK COVER-D ASSEMBLY. [Refer to Fig. 2-5]
2. Remove 7 screws (10) retaining the BACK COVER-U ASSEMBLY. [Fig. 2-7][40"]
Remove 9 screws (11) retaining the BACK COVER-U ASSEMBLY. [Fig. 2-7][45", 50"]



[Fig. 2-7]

**REMOVAL OF
BACK COVER
60" Models**

1. Remove the BACK BOARD. [Refer to Fig. 2-6]
2. Remove 3 screws (12) retaining the REAR BOARD. [Fig. 2-8(a)]
3. Remove 9 screws (13) retaining the BACK COVER. [Fig. 2-8(a)]
4. Remove 2 screws (14) retaining the BACK COVER. [Fig. 2-8(b)]



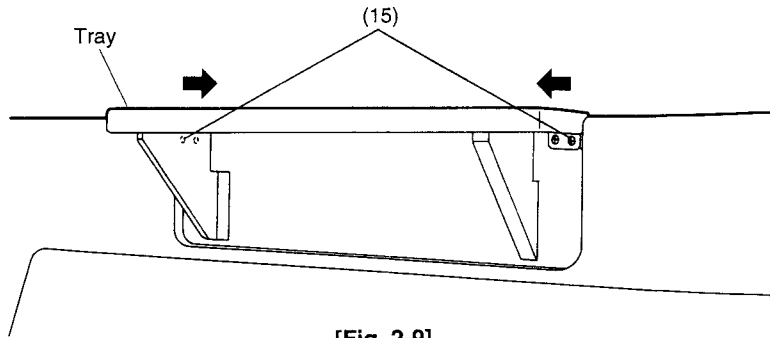
[Fig. 2-8(a)]

[Fig. 2-8(b)]

SERVICING

**REMOVAL OF
TRAY
45" and 50"
Models ONLY**

1. Remove 2 screws of the Tray, (15) in Fig. 2-9.
2. Remove fittings of the tray in the direction of the arrow.



[Fig. 2-9]

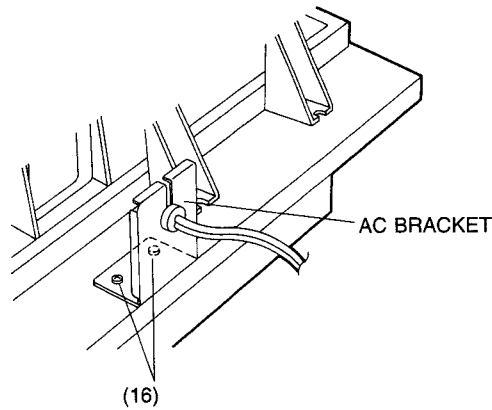
General note for PCB removal: When servicing the PCB, unclamp the lead wires and pull out the PCB for servicing. After servicing is completed, reclamp the lead wires in their original position.

SERVICING

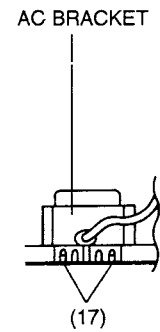
REMOVAL OF PCB-MAIN, PCB-SIGNAL, PCB-TERMINAL and PCB-POWER-SUB.

* When servicing PCB-PIP, PCB-FS, PCB-PCC and PCB-TERMINAL use the service JIG (Part No. 859C432O10) for easier access.

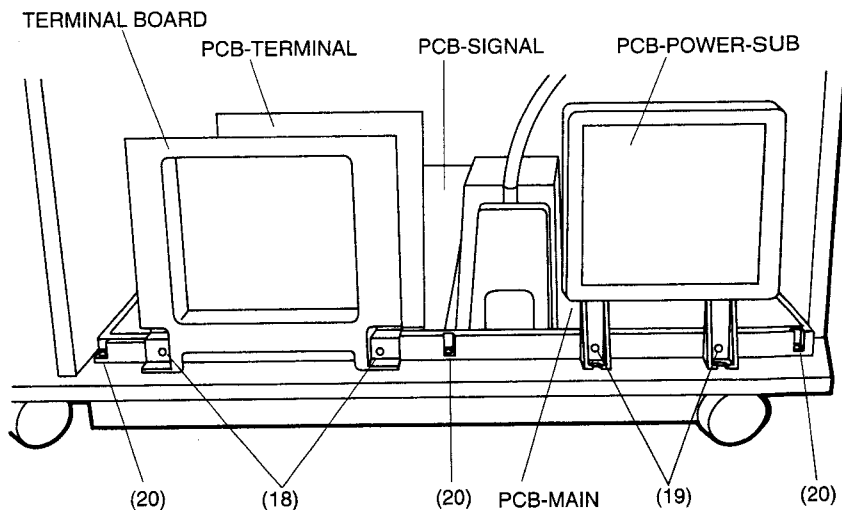
1. Remove the BACK-COVER-D ASSEMBLY. [Refer to Fig. 2-5][40", 45", 50"]
Remove the BACK BOARD. [Refer to Fig. 2-6][60"]
2. Remove 2 screws (16) retaining the AC BRACKET. [Fig. 2-10(a)][40", 45", 50"]
Remove 2 screws (17) retaining the AC BRACKET. [Fig. 2-10(b)][60"]
3. Remove 2 screws (18) retaining the TERMINAL BOARD. [Fig. 2-10(c)]
4. Remove 2 screws (19) retaining the PCB-POWER-SUB. [Fig. 2-10(c)]
5. Remove 3 screws (20) retaining the PCB-MAIN and PCB-SIGNAL. [Fig. 2-10(c)]



[Fig. 2-10(a)]



[Fig. 2-10(b)]

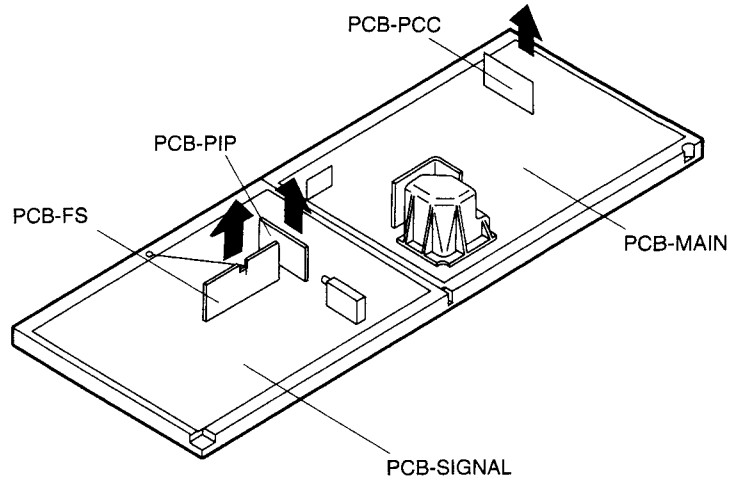


[Fig. 2-10(c)]

SERVICING

REMOVAL OF PCB-FS, PCB-PIP and PCB-PCC

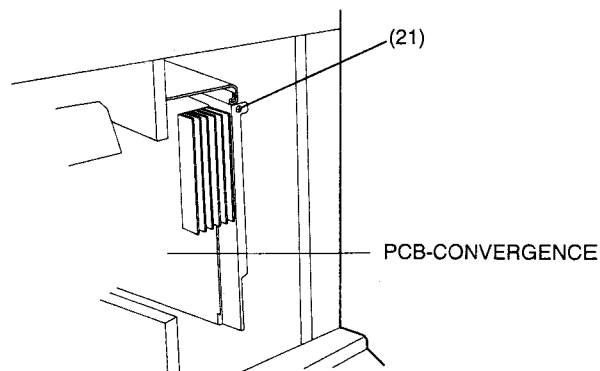
1. Remove the BACK COVER-D ASSEMBLY. [Refer to Fig. 2-5][40", 45", 50"]
Remove the BACK BOARD. [Refer to Fig. 2-6][60"]
2. Remove the AC BRACKET. [Refer to Fig. 2-10(a), (b)]
3. Remove the PCB-MAIN and PCB-SIGNAL. [Refer to Fig. 2-10(c)]
4. Remove the PCB-FS, PCB-PIP and PCB-PCC to arrow direction. [Fig. 2-11]



[Fig. 2-11]

REMOVAL OF PCB-CONVERGENCE

1. Remove the SPEAKER GRILLE. [Refer to Fig. 2-1(a), (c)]
2. Remove the BAFFLE BOARD ASSEMBLY. [Refer to Fig. 2-1(b), (d)]
3. Remove 1 screw (21) retaining PCB-CONVERGENCE. [Fig. 2-12]
4. Slide the front of PCB-CONVERGENCE to the right to remove.



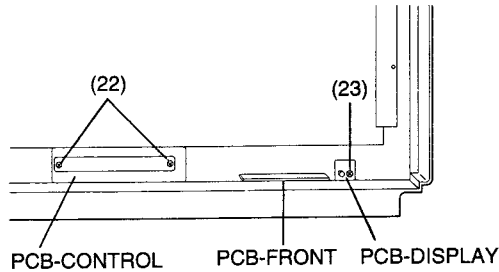
[Fig. 2-12]

SERVICING

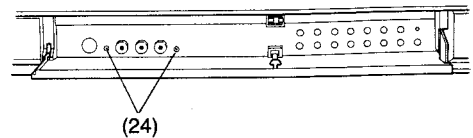
REMOVAL OF PCB-CONTROL, PCB-FRONT and PCB-DISPLAY

40", 45" and 50" Models

1. Remove the SPEAKER GRILLE and BAFFLE BOARD ASSEMBLY. [Refer to Fig. 2-1]
2. Remove the SCREEN ASSEMBLY. [Refer to Fig. 2-2(a)]
3. Remove the PCB-CONTROL COVER. [Refer to Fig. 2-3(a)][45", 50"]
4. Remove 2 screws (22) retaining the PCB-CONTROL. [Fig. 2-13(a)]
5. Remove 1 screw (23) retaining the PCB-DISPLAY. [Fig. 2-13(a)]
6. Remove 2 screws (24) retaining the PCB-FRONT. [Fig. 2-13(b)]



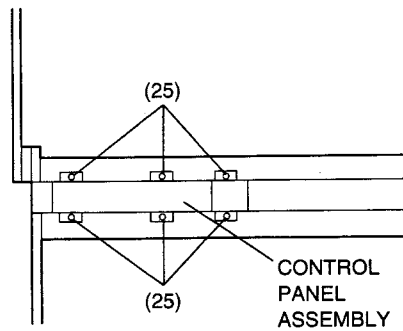
[Fig. 2-13(a)]



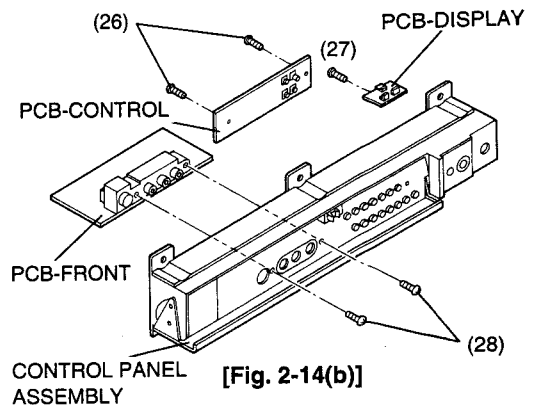
[Fig. 2-13(b)]

60" Models

1. Remove the SPEAKER GRILLE and BAFFLE BOARD ASSEMBLY. [Refer to Fig. 2-1(c), (d)]
2. Remove the SCREEN ASSEMBLY. [Refer to Fig. 2-2(b)]
3. Remove connectors ZD, ZE and ZF.
4. Remove 6 screws (25) retaining the CONTROL PANEL ASSEMBLY. [Fig. 2-14(a)]
5. Remove 2 screws (26) retaining the PCB-CONTROL. [Fig. 2-14(b)]
6. Remove 1 screw (27) retaining the PCB-DISPLAY. [Fig. 2-14(b)]
7. Remove 2 screws (28) retaining the PCB-FRONT. [Fig. 2-14(b)]



[Fig. 2-14(a)]



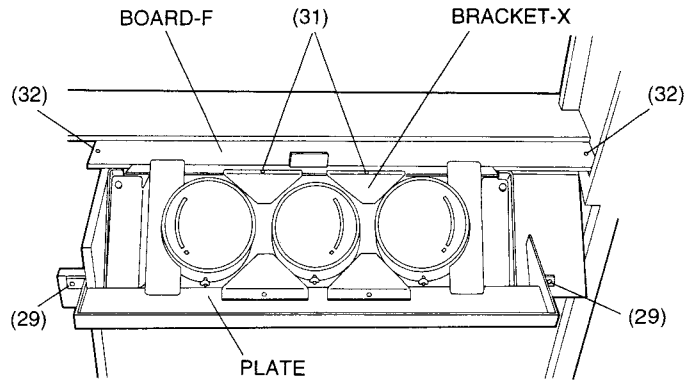
[Fig. 2-14(b)]

SERVICING

**REMOVAL OF CRT
40" and 45"
Models**

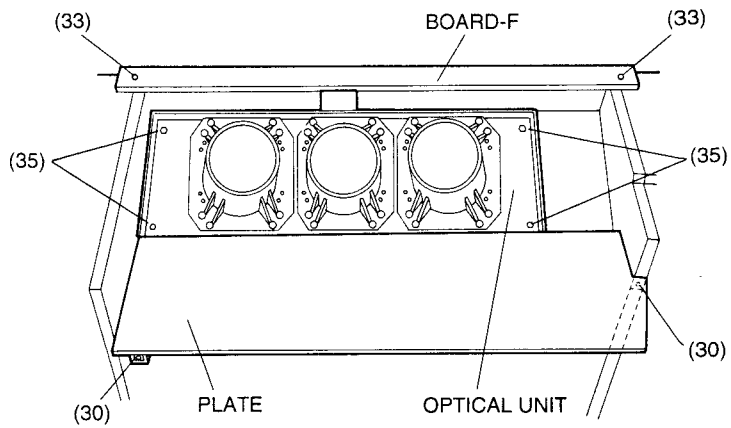
1. Remove the SPEAKER GRILLE. [Refer to Fig. 2-1(a), (c)]
2. Remove the BAFFLE BOARD ASSEMBLY. [Refer to Fig. 2-1(b), (d)]
3. Remove the SCREEN ASSEMBLY. [Refer to Fig. 2-2(a)]
4. Remove the BACK COVER-D ASSEMBLY. [Refer to Fig. 2-5]
5. Remove the BACK COVER-U ASSEMBLY. [Refer to Fig. 2-7]
6. Remove 2 screws (29) retaining the PLATE. [Fig. 2-15(a)][40"]
Remove 2 screws (30) retaining the PLATE. [Fig. 2-15(b)][45"]
7. Remove 2 screws (31) retaining the BRACKET-X. [Fig. 2-15(a)][40"]
8. Remove the 3 PCB-CRT.
9. Remove 2 screws (32) retaining the BOARD-F. [Fig. 2-15(a)][40"]
Remove 2 screws (33) retaining the BOARD-F. [Fig. 2-15(b)][45"]
10. Remove 4 hex-nuts (34) retaining the OPTICAL UNIT. [Fig. 2-15(c)][40"]
Remove 4 hex-nuts (35) retaining the OPTICAL UNIT. [Fig. 2-15(b)][45"]

40" Models



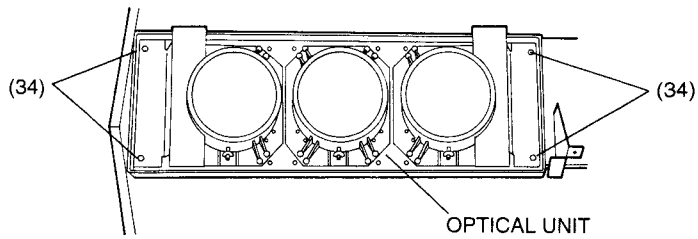
[Fig. 2-15(a)]

45" Models



[Fig. 2-15(b)]

40" Models

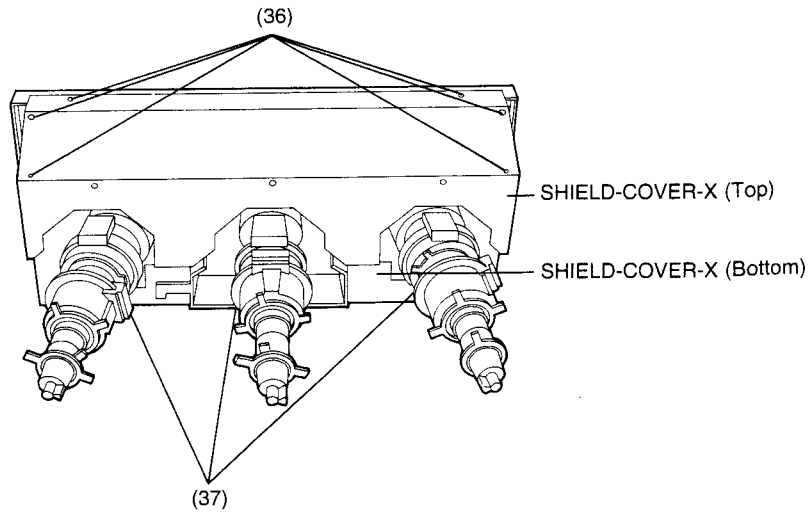


[Fig. 2-15(c)]

SERVICING

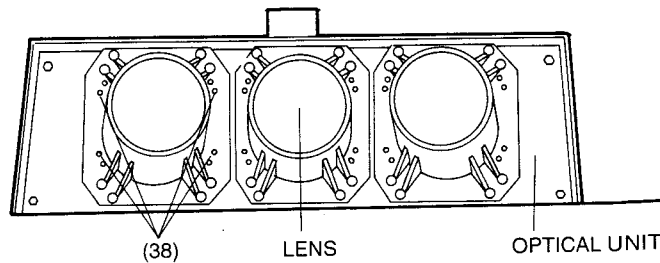
REMOVAL OF CRT 40" and 45" Models

11. Remove 6 screws (36) retaining the SHIELD COVER-X (Top). [Fig. 2-15(d)]
12. Remove 3 screws (37) retaining the SHIELD COVER-X (Bottom). [Fig. 2-15(d)]

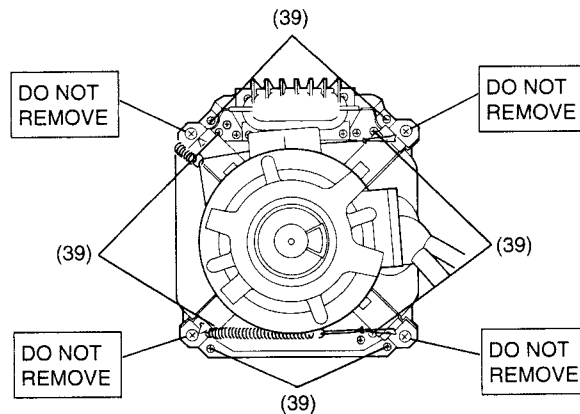


[Fig. 2-15(d)]

13. Remove 4 screws (38) retaining the INNER LENS of the CRT to be replaced. [Fig. 2-15(e), Fig. 2-17(a)]
14. To remove the CRT mounted as shown in Fig. 2-16(f), remove 8 screws (39).
NOTE: DO NOT remove RED screws.



[Fig. 2-15(e)]



[Fig. 2-15(f)]

SERVICING

REMOVAL OF CRT 40" and 45" Models

15. Remove the deflection yoke assembly, focus magnet and alignment magnet assembly from the neck of tube.
16. Disconnect the Anode Cap.
Anode caps are secured to the CRT and sealed with a rubbery, silicone based compound. The seal must be broken and excess compound stripped from the anode area before the anode cap can be successfully removed.

CAUTION !

High voltage should be completely discharged prior to anode cap removal. Since all three CRT receive high voltage from a single cable, discharge simultaneously by shorting the open end of the high voltage cable to chassis ground. The anode cap seal can now be safely broken by inserting a thin-bladed tool between the edge of the anode cap and the CRT rotating the tool around the outer edge of the anode cap.

NOTE:

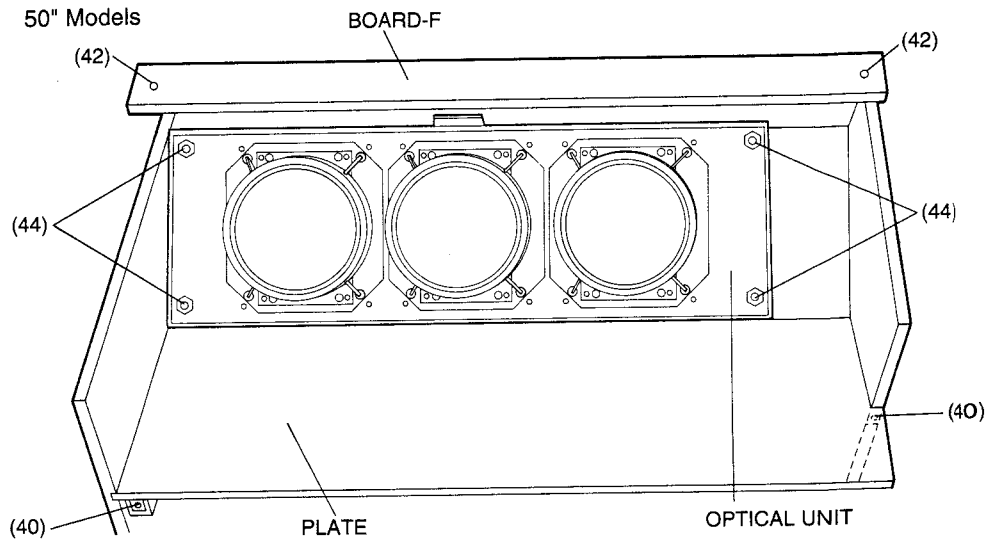
Do NOT damage the Anode cap during removal! Due to safety regulations, the length of the original H.V. cable is not long enough to permit the installation of a replacement anode cap. Consequently, a replacement anode cap is NOT packaged with the replacement CRT.

If the Anode Cap is damaged during removal, a new H.V. cable and Anode Cap Harness Assembly must be installed. This assembly includes the H.V. leads and Anode Caps for ALL THREE CRTs.

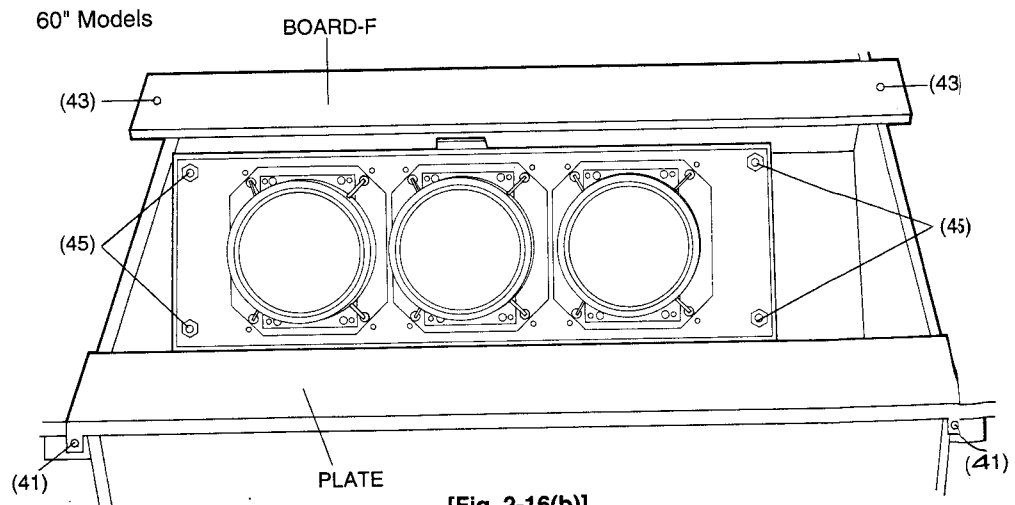
SERVICING

**REMOVAL OF CRT
50" and 60"
Models**

1. Remove the SPEAKER GRILLE. [Refer to Fig. 2-1(c)]
2. Remove the Baffle Board Assembly. [Refer to Fig. 2-1(d)]
3. Remove the SCREEN ASSEMBLY. [Refer to Fig. 2-2(a), (b)]
4. Remove the BACK COVER-D ASSEMBLY. [Refer to Fig. 2-5][50"]
Remove the BACK BOARD. [Refer to Fig. 2-6][60"]
5. Remove the BACK COVER-U ASSEMBLY. [Refer to Fig. 2-7][50"]
Remove the BACK COVER. [Refer to Fig. 2-8][60"]
6. Remove 2 screws (40) retaining the PLATE. [Fig. 2-16(a)][50"]
Remove 2 screws (41) retaining the PLATE. [Fig. 2-16(b)][60"]
7. Remove the 3 PCB-CRT.
8. Remove 2 screws (42) retaining the BOARD-F. [Fig. 2-16(a)][50"]
Remove 2 screws (43) retaining the BOARD-F. [Fig. 2-16(b)][60"]
9. Remove 4 hex-nuts (44) retaining the OPTICAL UNIT. [Fig. 2-16(a)][50"]
Remove 4 hex-nuts (45) retaining the OPTICAL UNIT. [Fig. 2-16(b)][60"]



[Fig. 2-16(a)]

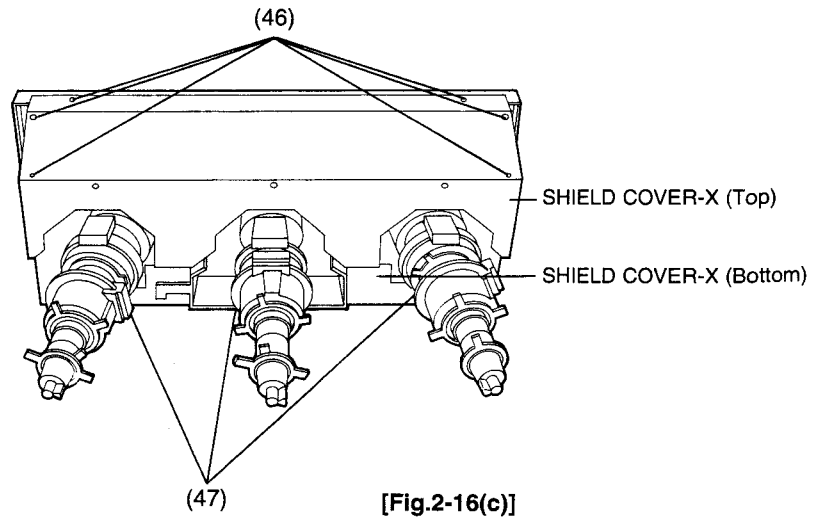


[Fig. 2-16(b)]

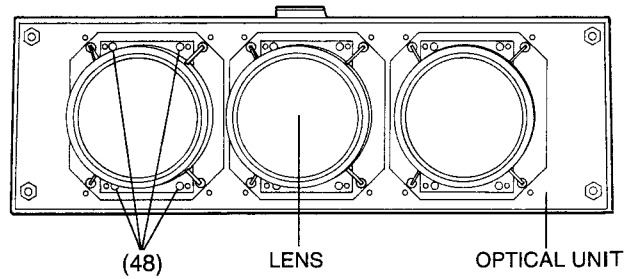
SERVICING

REMOVAL OF CRT 50" and 60" Models

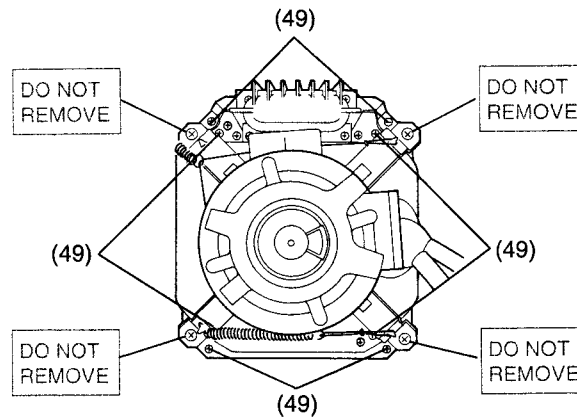
10. Remove 6 screws (46) retaining the SHIELD COVER-X (Top). [Fig.2-16(c)]
11. Remove 3 screws (47) retaining the SHIELD COVER-X (Bottom). [Fig.2-16(c)]



12. Remove 4 screws (48) retaining the INNER LENS of the CRT to be replaced. [Fig.2-16(d), Fig.2-17(a)]
13. To remove the CRT mounted as shown in Fig. 2-16(e), remove 8 screws (49).
NOTE: DO NOT remove RED screws.



[Fig.2-16(d)]



[Fig.2-16(e)]

SERVICING

REMOVAL OF CRT 50" and 60" Models

14. Remove the deflection yoke assembly, focus magnet and alignment magnet assembly from the neck of tube.
15. Disconnect the Anode Cap.
Anode caps are secured to the CRT and sealed with a rubbery, silicone based compound. The seal must be broken and excess compound stripped from the anode area before the anode cap can be successfully removed.

CAUTION !

High voltage should be completely discharged prior to anode cap removal. Since all three CRT receive high voltage from a single cable, discharge simultaneously by shorting the open end of the high voltage cable to chassis ground. The anode cap seal can now be safely broken by inserting a thin-bladed tool between the edge of the anode cap and the CRT rotating the tool around the outer edge of the anode cap.

NOTE:

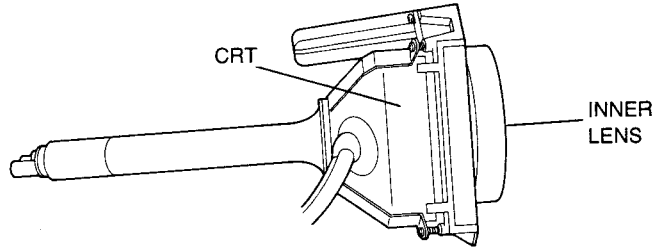
Do NOT damage the Anode cap during removal! Due to safety regulations, the length of the original H.V. cable is not long enough to permit the installation of a replacement anode cap. Consequently, a replacement anode cap is NOT packaged with the replacement CRT.

If the Anode Cap is damaged during removal, a new H.V. cable and Anode Cap Harness Assembly must be installed. This assembly includes the H.V. leads and Anode Caps for ALL THREE CRTs.

SERVICING

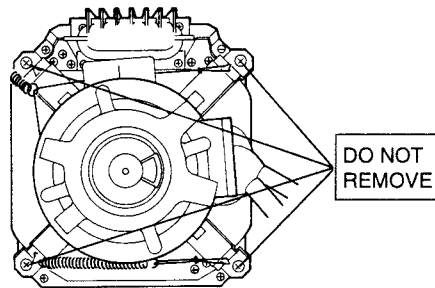
INSTALLATION OF CRT

The service replacement CRT is supplied as an assembly, comprised of the CRT and the inner lens, with the space between them filled with ethylene glycol. Care should be taken during handling and installation to prevent shock from disrupting the seal or alignment between the CRT and inner lens. [Fig.2-17(a)]



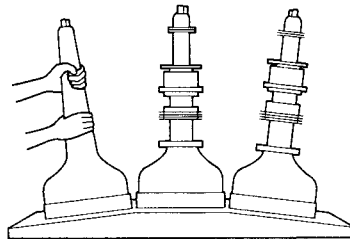
[Fig.2-17(a)]

* The CRT fixing screws should not be allowed to loosen nor should they be removed. [Fig.2-17(b)]

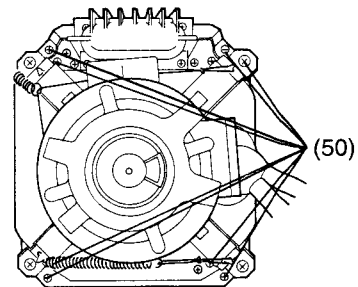


[Fig.2-17(b)]

1. Carefully position replacement CRT fully toward the front, and fasten into place, using 8 screws (50) as shown in Fig. 2-17(c) or Fig. 2-17(d).



[Fig.2-17(c)]



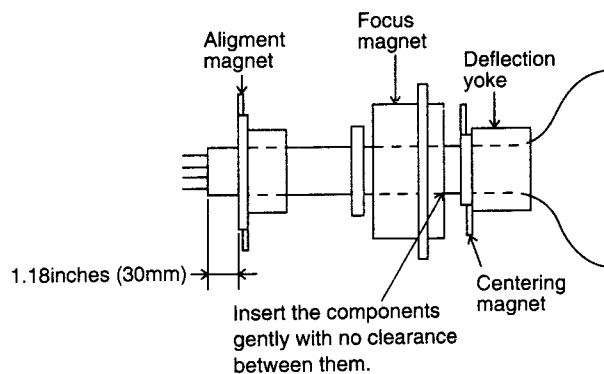
[Fig.2-17(d)]

2. Mount deflection yoke, focus magnet assembly and alignment magnet assembly on the CRT neck.
3. Strip the old silicone glue from the inner surface of the anode cap with a knife, taking care not to scratch it.

SERVICING

INSTALLATION OF CRT

4. Prior to connecting the anode cap, apply an even coat of the sealant compound to the anode area of the CRT and the inside edges of the anode cap. Make sure the anode and the metal connector of the anode cap are not contaminated by the sealant when the anode cap is installed.
5. Insert the clip of the anode cap into the top of the anode terminal on the new CRT, and fix the cap in place. Following the connection of the anode cap, apply another thin coat of sealant around the outside edges of the anode cap assuring a positive seal.
6. Reinstall the screws on inner lens removed in step 13, removal of CRT. [40", 45"]
Reinstall the screws on inner lens removed in step 12, removal of CRT. [50", 60"]
7. Assemble the shield cover removed in steps 11 and 12, removal of CRT. [40", 45"]
Assemble the shield cover removed in steps 10 and 11, removal of CRT. [50", 60"]
8. Insert the OPTICAL UNIT in the cabinet.
9. Insert the BOARD-F removed in step 9, removal of CRT. [40", 45"]
Insert the BOARD-F removed in step 8, removal of CRT. [50", 60"]
10. Insert the BRACKET-X removed in step 7, removal of CRT. [40"]
11. Insert the PLATE removed in step 6, removal of CRT.
12. Insert the BACK COVER-U ASSEMBLY removed in step 5, removal of CRT. [40", 45", 50"]
Insert the BACK COVER removed in step 5, removal of CRT. [60"]
13. Insert the BACK COVER-D ASSEMBLY removed in step 4, removal of CRT. [40", 45", 50"]
Insert the BACK BOARD removed in step 4, removal of CRT. [60"]
14. Insert the high voltage wire into HV-BLOCK.
15. Install the PCB-CRT.
16. Position deflection yoke, focus magnet assembly, and centering magnet together so that there is no space between these parts. [Fig. 2-17(e)]
17. Position the Alignment assembly on the neck of the CRT so that the distance between the alignment magnet and the base of the tube is 1.18 inches (30mm). [Fig. 2-17(e)]



[Fig. 2-17(e)]

18. Reclamp the lead wires in their original position.

Adjustment of after replacing the CRT

When replacing the CRT, perform following adjustments.

- CRT Circuit adjustment.
 - (1) CRT cut off (No.18 on Page 33)
 - (2) White Balance (No.19 on Page 34)
- Static convergence adjustment (No.28 on Page 39)
- Focus adjustment (No.25 on Page 37)
- DYNAMIC CONVERGENCE adjustment (No.29 on Page 40)

Electrical Adjustment

Perform only the alignment. If proper equipment is not available, do not attempt an alignment.

■ Measuring equipment and Jigs

- Oscilloscope (Unless otherwise specified in particular, use 10:1 probes.)
- Signal generator
- Frequency counter
- Sweep signal generator
- Direct current voltmeter
- Electrical tools

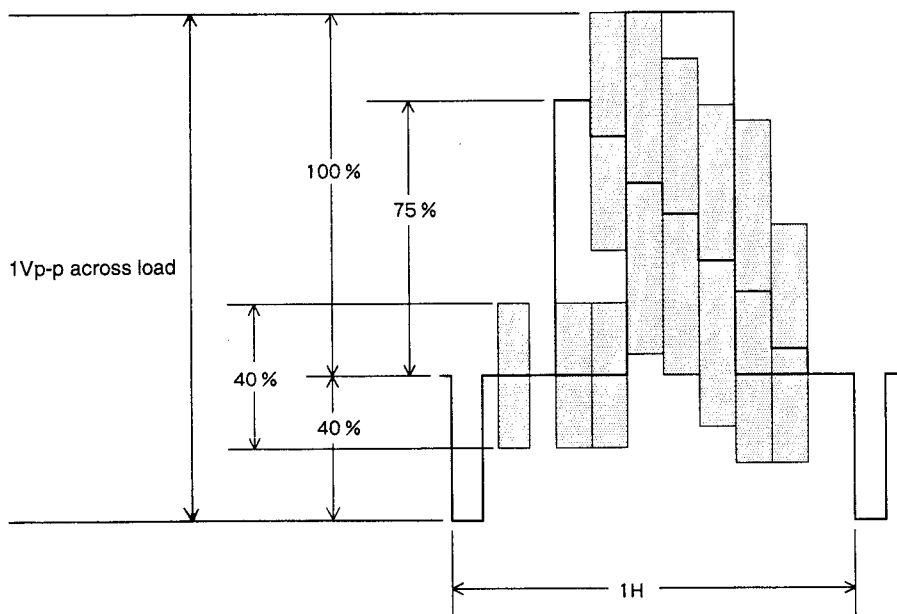
■ Test Signal

1). Monoscope signal

When you have no monoscope signal source for adjustment, connect the unit to a VCR and play an alignment tape (Monoscope).

2). Color bar signal

In this manual, unless otherwise specified in particular, use color bar signal in specifications below.

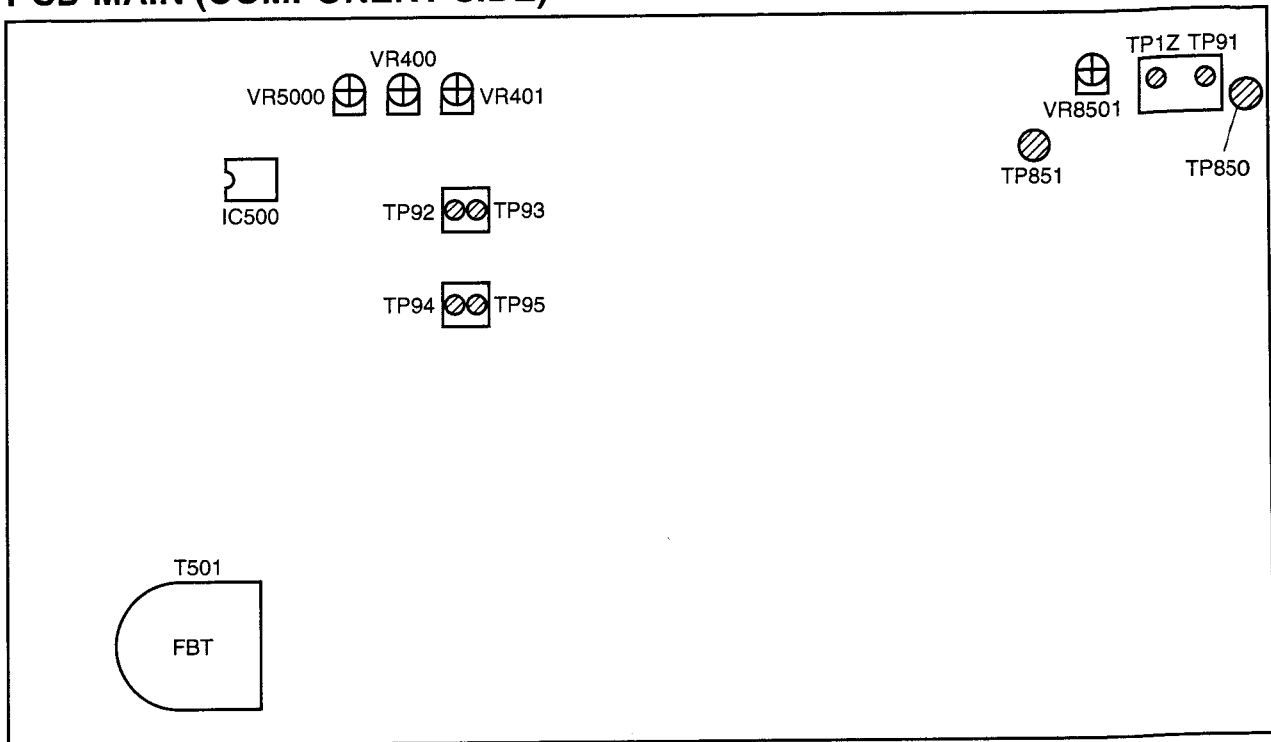


NTSC Split-field color bars with 100% window

LOCATION OF TEST POINTS AND ADJUSTMENTS

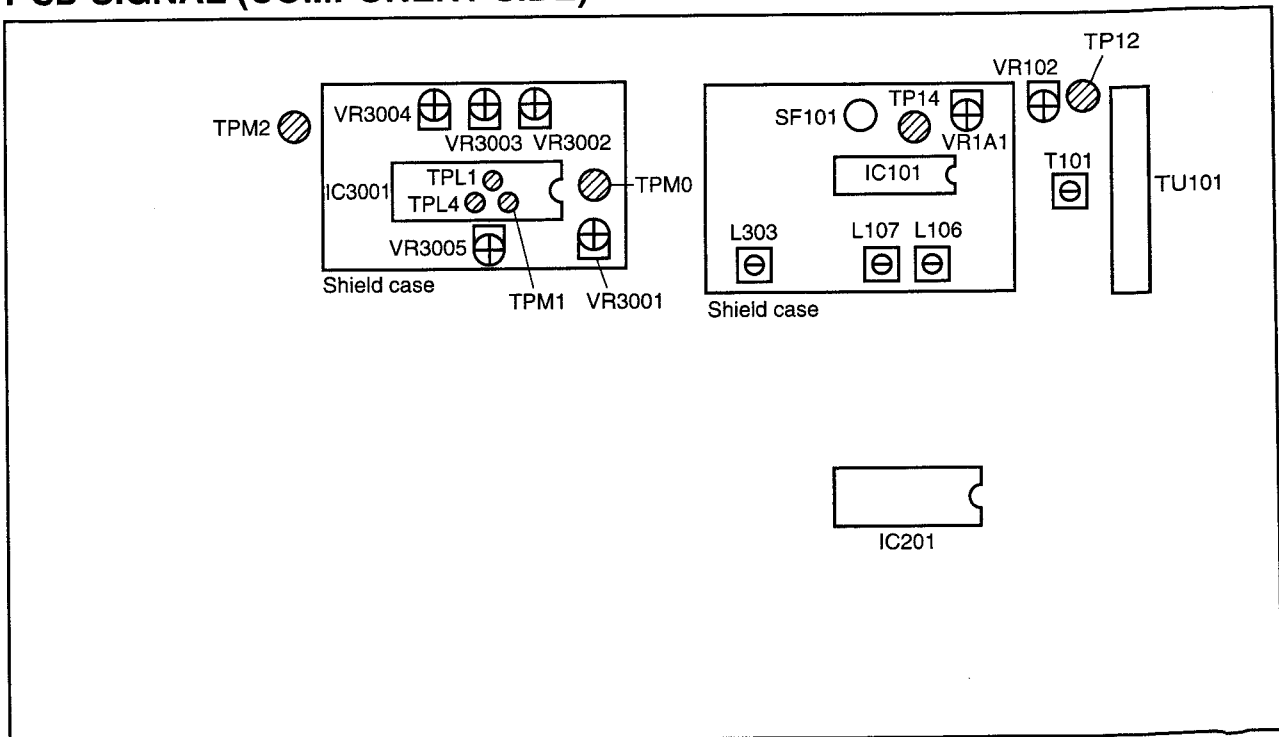
PCB-MAIN (COMPONENT SIDE)

FRONT



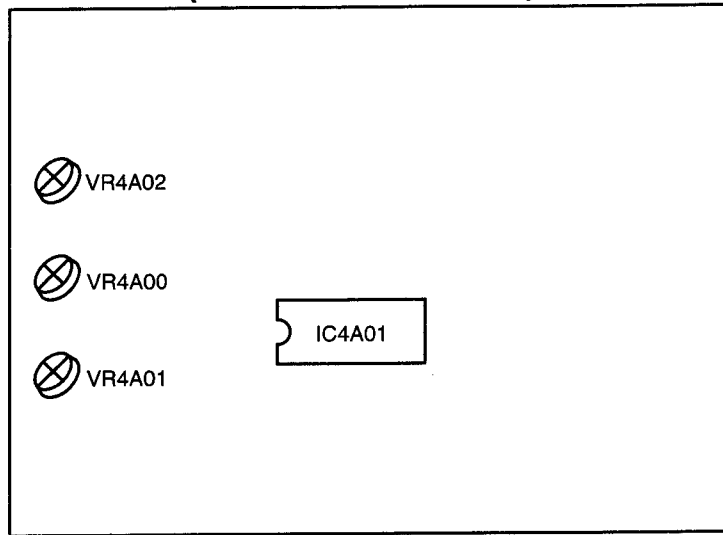
PCB-SIGNAL (COMPONENT SIDE)

FRONT



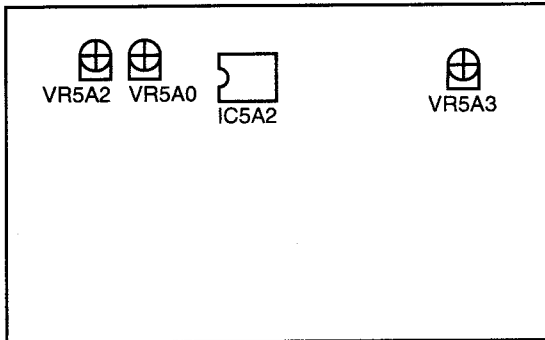
PCB-PCC (COMPONENT SIDE)

FRONT



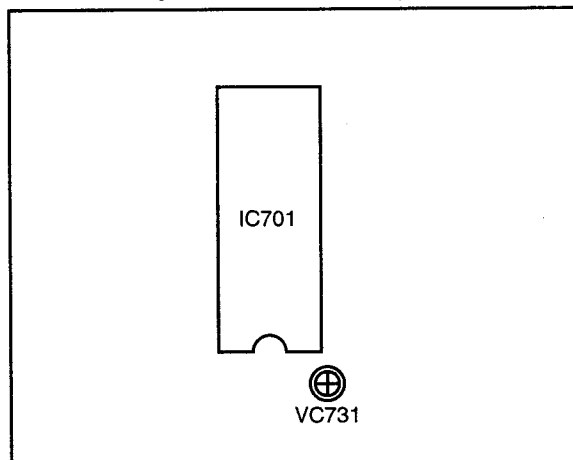
PCB-SIDE-PIN (COMPONENT SIDE)

↑ UP SIDE

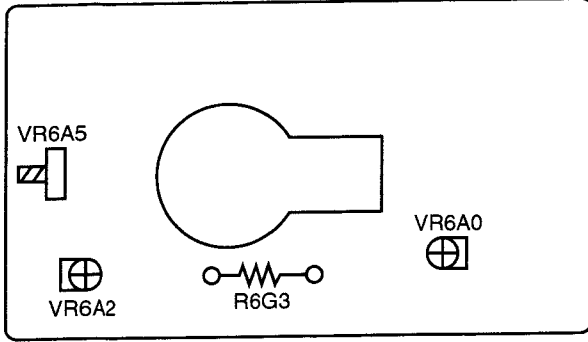


PCB-FS (COMPONENT SIDE)

↑ UP SIDE

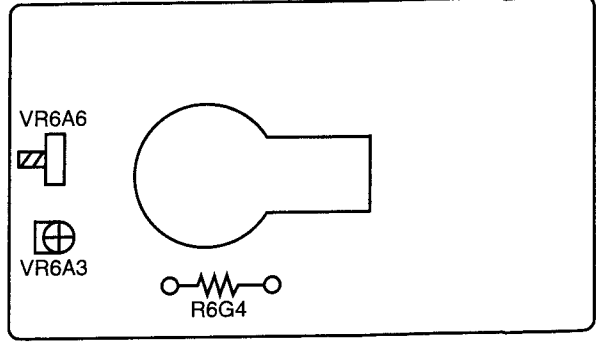


PCB-CRT(R) (COMPONENT SIDE)



FRONT

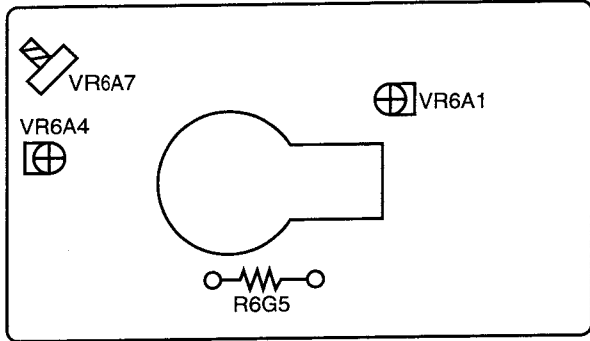
PCB-CRT(G) (COMPONENT SIDE)



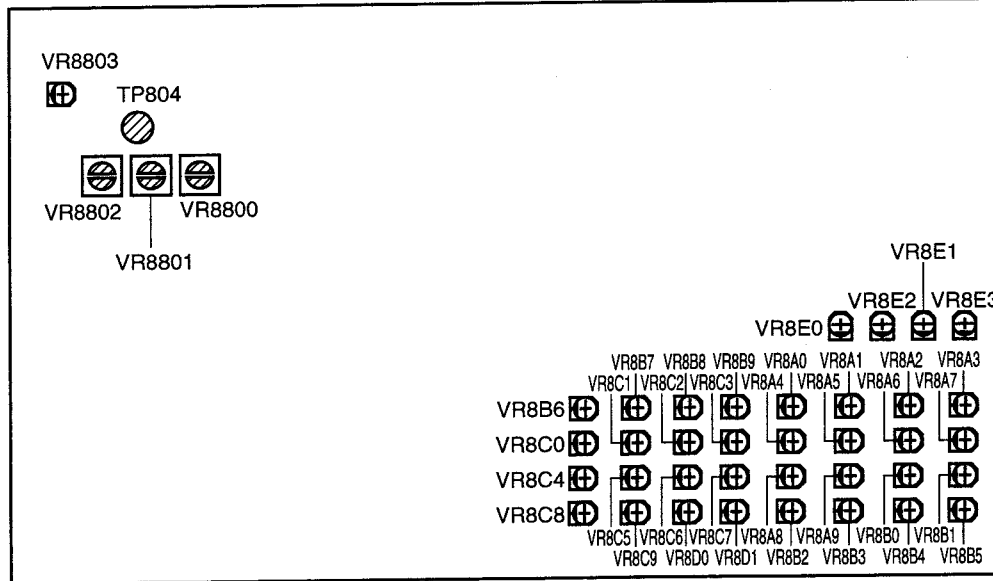
FRONT

PCB-CRT(B) (COMPONENT SIDE)

FRONT



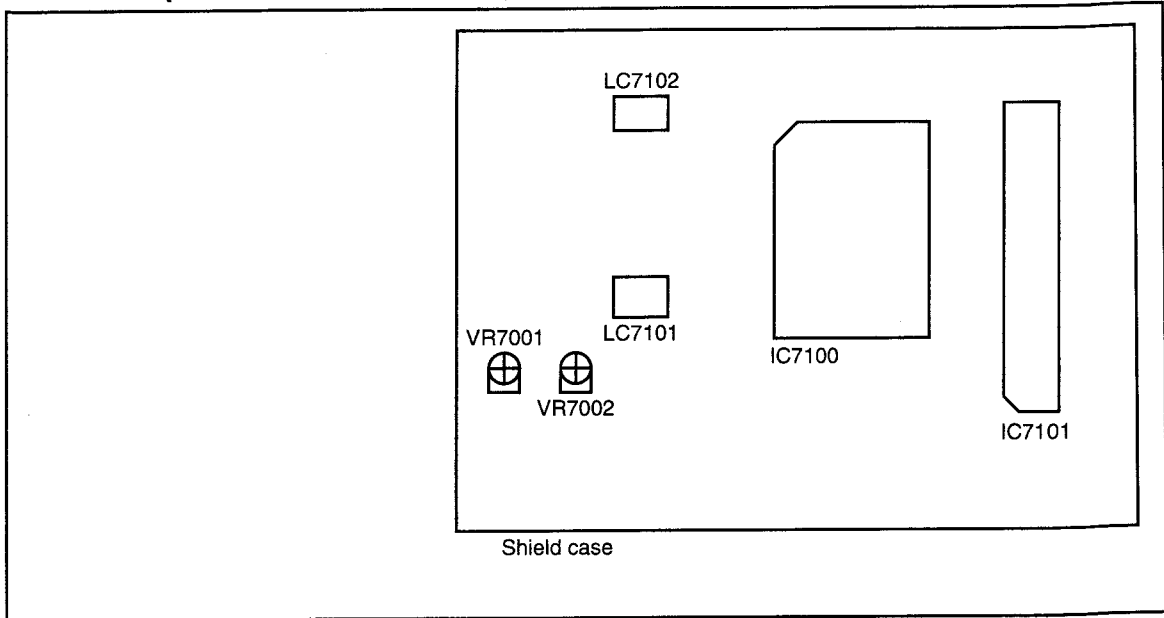
PCB-CONV (COMPONENT SIDE)



FRONT

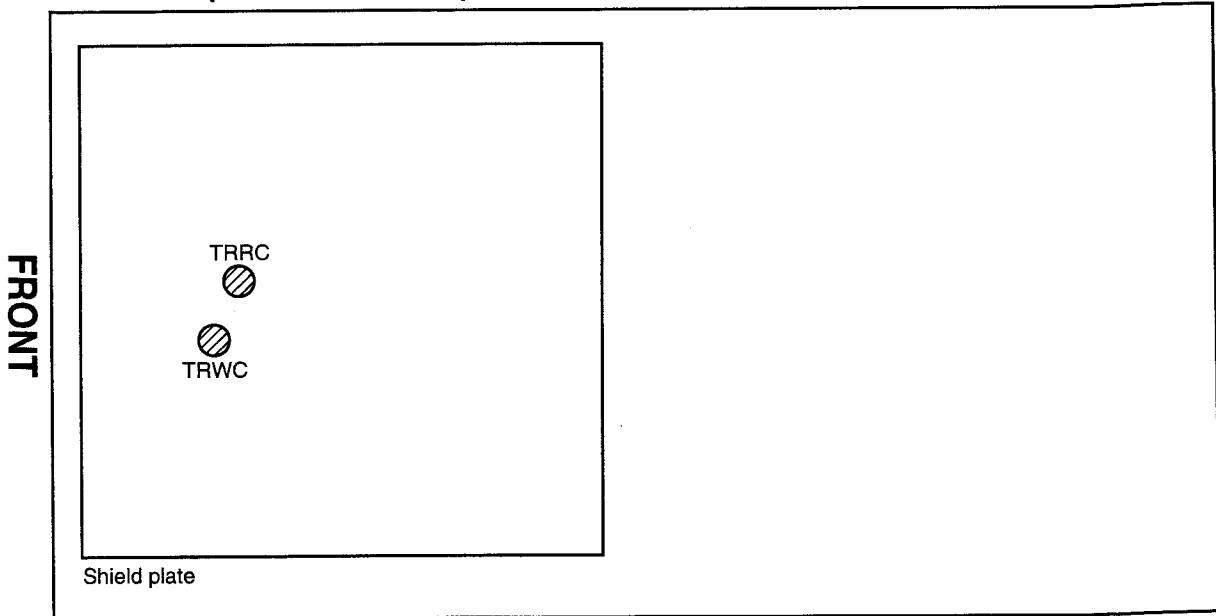
PCB-PIP (COMPONENT SIDE)

↑ **UP SIDE**



PCB-PIP (SOLDER SIDE)

↑ **UP SIDE**

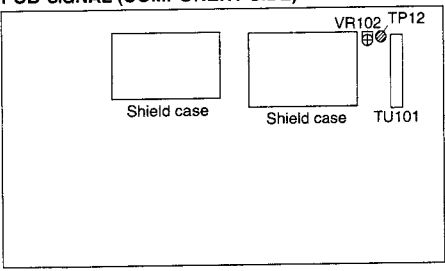
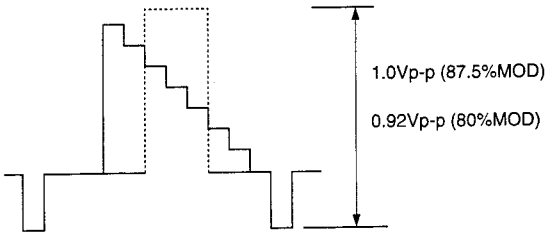


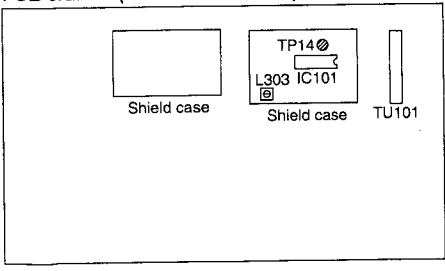
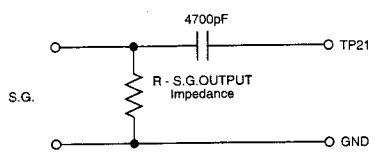
<p>[IF Circuit] 1. VCO Free run frequency</p>	<p>Adjustment purpose Setting VCO free run frequency to IF of picture.</p> <p>Symptom when incorrectly adjusted Impossible setting to the normal frequency when tuning.</p>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Measuring instrument</td> <td>Oscilloscope</td> </tr> <tr> <td>Test point</td> <td>IC101 pin (28)</td> </tr> <tr> <td>EXT trigger</td> <td>...</td> </tr> <tr> <td>Measurement range</td> <td>DIV 20mV TIM 2ms</td> </tr> <tr> <td>Input signal</td> <td>Sweep signal (90±2dBμ/load)</td> </tr> <tr> <td>Input terminal</td> <td>Tuner testpoint</td> </tr> </table>	Measuring instrument	Oscilloscope	Test point	IC101 pin (28)	EXT trigger	...	Measurement range	DIV 20mV TIM 2ms	Input signal	Sweep signal (90±2dBμ/load)	Input terminal	Tuner testpoint	<ol style="list-style-type: none"> 1. Select VHF-High band. 2. Connect IC101 pin (25) to the ground via a capacitor (22μF, 16V or more). 3. Connect a sweep generator to the Tuner testpoint using a High pass filter, as shown in Figure. (Use the shield case of Tuner Unit for the ground.) 4. Connect a DC Power supply to TP14. 5. Adjust the voltage of TP14 so that the amplitude of the waveform on the oscilloscope is 1.2Vp-p. 6. Adjust L107 so that the zero beat point is aligned with 45.75MHz marker on the oscilloscope. 	
Measuring instrument	Oscilloscope													
Test point	IC101 pin (28)													
EXT trigger	...													
Measurement range	DIV 20mV TIM 2ms													
Input signal	Sweep signal (90±2dBμ/load)													
Input terminal	Tuner testpoint													
<p>PCB-SIGNAL (COMPONENT SIDE)</p>	<ol style="list-style-type: none"> 7. Remove the Power supply from TP14 and connect TP14 to the ground. 8. Remove the Capacitor from IC101 pin (25). 9. Measure the voltage on IC101 pin (25). 10. Open TP14. 11. Set the output of a generator to 45.75MHz sine wave and connect to the tuner testpoint using the circuit, as shown in Figure. 12. Adjust L107 so that the voltage reading on IC101 pin (25) is the value within ±30mV the reading measured in Item 2 (VIF over all response). 													

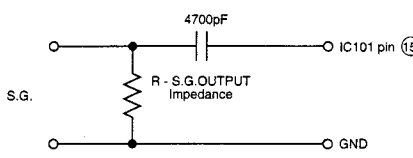
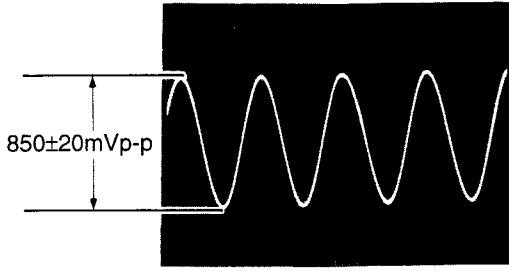
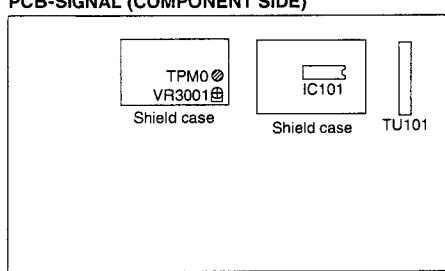
<p>2. VIF over all response</p>	<p>Adjustment purpose Frequency characteristics of VIF detection circuit.</p> <p>Symptom when incorrectly adjusted Too sharp or too soft picture.</p>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Measuring instrument</td> <td>Oscilloscope</td> </tr> <tr> <td>Test point</td> <td>IC101 pin (28)</td> </tr> <tr> <td>EXT trigger</td> <td>...</td> </tr> <tr> <td>Measurement range</td> <td>DIV 20mV TIM 2ms</td> </tr> <tr> <td>Input signal</td> <td>Sweep signal (90±2dBμ/load)</td> </tr> <tr> <td>Input terminal</td> <td>Tuner testpoint</td> </tr> </table>	Measuring instrument	Oscilloscope	Test point	IC101 pin (28)	EXT trigger	...	Measurement range	DIV 20mV TIM 2ms	Input signal	Sweep signal (90±2dBμ/load)	Input terminal	Tuner testpoint	<ol style="list-style-type: none"> 1. Select VHF-High band. 2. Connect a capacitor (50V, 2200pF) across SF101 pins 1 and 4. 3. Connect a sweep generator to the Tuner testpoint using a High pass filter, as shown in Figure. (Use the shield case of Tuner Unit for the ground.) 4. Connect a DC Power supply to TP14. 5. Observe the waveform at IC101 pin (28). 6. Adjust the voltage of TP14 so that the amplitude of the waveform on the oscilloscope is 1.2Vp-p. 7. Adjust T101 to tune the trap frequency to 45.75MHz. 8. Remove a capacitor from SF101 pins (1) and (4). 9. Adjust the IF coil in the tuner unit so that the peak amplitude of the waveform on the oscilloscope is around 44.0MHz. <p>Make sure that the amplitude at 41.67MHz and 45.75MHz are almost the same as shown the illustration.</p> <p>Note: Make sure that there is no dip at 44.0MHz.</p>	
Measuring instrument	Oscilloscope													
Test point	IC101 pin (28)													
EXT trigger	...													
Measurement range	DIV 20mV TIM 2ms													
Input signal	Sweep signal (90±2dBμ/load)													
Input terminal	Tuner testpoint													
<p>PCB-SIGNAL (COMPONENT SIDE)</p>	<ol style="list-style-type: none"> 10. Open TP14. 11. Set the output of a generator to 45.75MHz sine wave and connect to the tuner testpoint using the circuit, as shown in Figure. 12. Adjust L107 so that the voltage reading on IC101 pin (25) is the value within ±30mV the reading measured in Item 2 (VIF over all response). 													

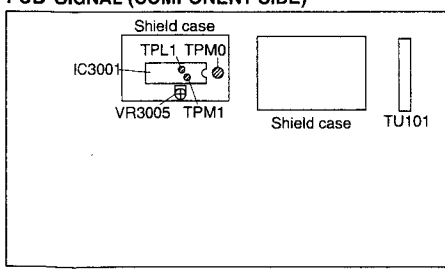
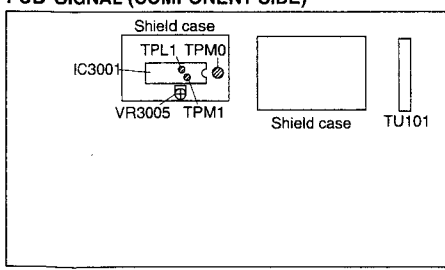
3. AFT		Adjustment purpose Setting frequency to the specified point of AFT circuit.
		Symptom when incorrectly adjusted Too sharp or too soft picture.
Measuring instrument	DC Voltmeter	<p>* This adjustment must follow Item 1 (VCO Free run frequency).</p> <ol style="list-style-type: none"> 1. Make sure that TP14 and IC101 pin (25) are opened. 2. Connect the generator to the tuner testpoint using a High pass filter, as shown in Figure. 3. Observe the DC voltage at IC101 pin (16). 4. Adjust L106 so that the DC voltmeter reads DC 4.5±0.1V.
Test point	IC101 pin (16)	
EXT trigger	...	
Measurement range	...	
Input signal	Sinewave signal (45.75MHz, 90dBμ)	
Input terminal	Tuner testpoint	
PCB-SIGNAL (COMPONENT SIDE)		
		<p style="text-align: center;">High pass filter</p>

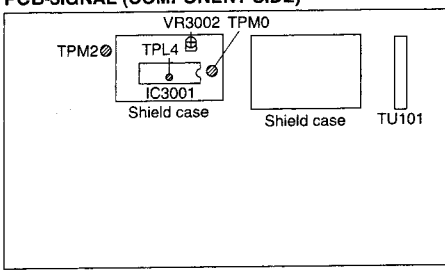
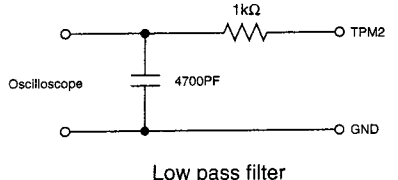
[AGC circuit] 4. RF AGC		Adjustment purpose Setting RF AGC to optimum point for RF reception.
		Symptom when incorrectly adjusted Poor S/N ratio or cross modulation.
Measuring instrument	...	<p>* This adjustment should be done when there is cross modulation or the picture tears horizontally.</p> <p>* This adjustment must follow Item 3 (AFT).</p> <ol style="list-style-type: none"> 1. Supply an RF signal (program). 2. Turn on AFT. 3. Adjust VR1A1 until the symptom disappears.
Test point	...	
EXT trigger	...	
Measurement range	...	
Input signal	RF signal (program)	
Input terminal	RF IN terminal	
PCB-SIGNAL (COMPONENT SIDE)		

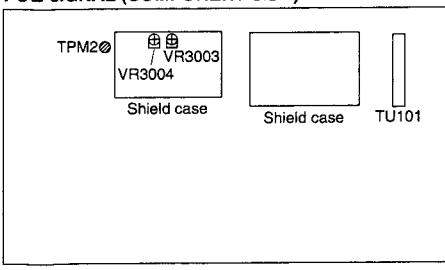
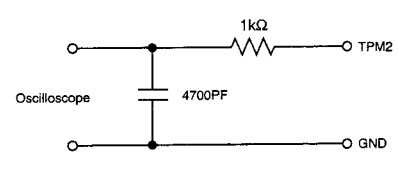
5. Video level		Adjustment purpose Setting tuner video level. Symptom when incorrectly adjusted Too bright or too dark picture when receiving broadcast programs.
Measuring instrument	Oscilloscope	* This adjustment must follow Item 3 (AFT). 1. Supply an RF signal (color bar). 2. Observe the waveform at TP12. 3. Adjust VR102 so that the amplitude of the waveform is 1.0Vp-p (87.5%MOD) or 0.92Vp-p (80%MOD)
Test point	TP 1 2	
EXT trigger	...	
Measurement range	DIV 20mV TIM 10μs	
Input signal	RF signal (color bar)	
Input terminal	RF IN terminal	
PCB-SIGNAL (COMPONENT SIDE) 		

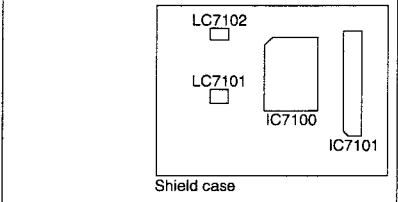
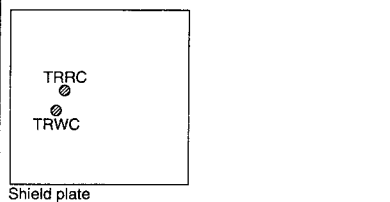
[Audio Circuit] 6. FM Multiplex audio detect		Adjustment purpose The best demodulation of the FM signal. Symptom when incorrectly adjusted Sound distortion or impossible SAP mode detection.
Measuring instrument	DC Voltmeter	1. Supply a DC 3±0.3V to TP14. 2. Connect a signal generator (0% MOD.) to IC101 pin ⑮ using a High pass filter, as shown in Figure. 3. Observe the DC voltage at TP22. 4. Adjust L303 so that a DC voltmeter reads DC 4.5±0.1V.
Test point	TP 2 2	
EXT trigger	...	
Measurement range	...	
Input signal	Sinewave signal (4.5MHz, 90dBμ)	
Input terminal	IC101 pin ⑮	
PCB-SIGNAL (COMPONENT SIDE) 		 <p style="text-align: center;">High pass filter</p>

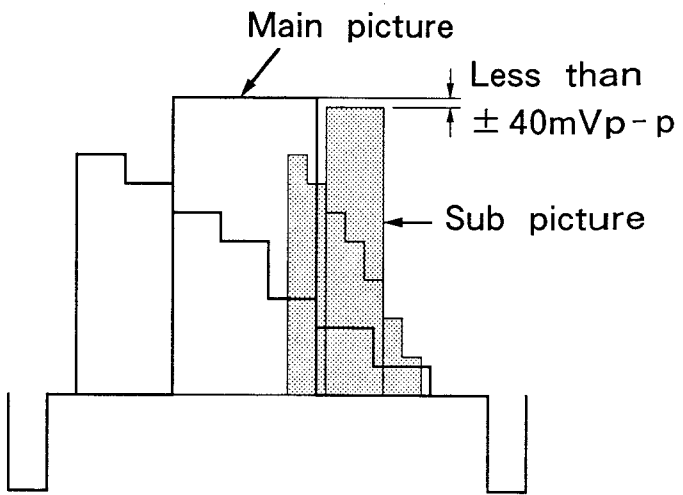
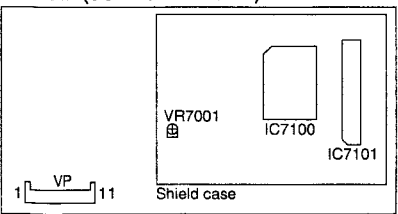
7. Composite level		Adjustment purpose Setting input level of audio detection signal to normal.	
		Symptom when incorrectly adjusted Variable output level or malfunction of STEREO mode display.	
Measuring instrument	Oscilloscope	<ol style="list-style-type: none"> 1. Supply an FM modulated signal (400Hz, 100%MOD.) to IC101 pin ⑮ using a High pass filter, as shown in Figure. 2. Observe the waveform at TPM0. 3. Adjust VR3001 so that the amplitude of the waveform on the oscilloscope is $850 \pm 20 \text{mVp-p}$. 	
Test point	T P M 0		
EXT trigger	...		
Measurement range	DIV 20mV TIM 1ms		
Input signal	FM signal (4.5MHz, 90dBμ)		
Input terminal	IC101 pin ⑮		
PCB-SIGNAL (COMPONENT SIDE)		 <p style="text-align: center;">High pass filter</p> 	
			

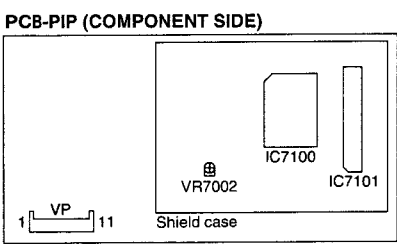
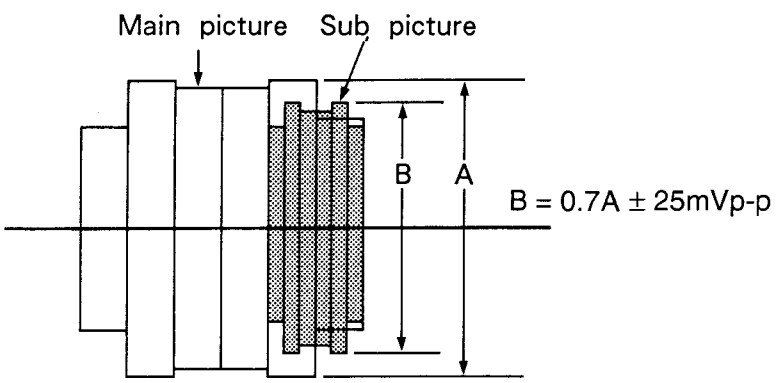
8. Stereo VCO		Adjustment purpose Setting oscillator of multiplex IC to the reference frequency.	
		Symptom when incorrectly adjusted Impossible STEREO mode detection.	
Measuring instrument	Frequency counter	<ol style="list-style-type: none"> 1. Connect TPL1 to IC3001 pin ⑫ via a resistor (1/4W 100kΩ). 2. Connect the TPM0 to the ground via a capacitor (2200μF, 16V or more). 3. Observe the frequency at TPM1. 4. Adjust VR3005 for $15.73 \pm 0.05 \text{kHz}$ reading on the frequency counter. 5. Open TPL1 and IC3001 pin ⑫, and remove the capacitor. 	
Test point	T P M 1		
EXT trigger	...		
Measurement range	...		
Input signal	...		
Input terminal	...		
PCB-SIGNAL (COMPONENT SIDE)			
			

9. Filter		Adjustment purpose Filter for pilot signal.
		Symptom when incorrectly adjusted Poor S/N ratio of signal for STEREO or SAP mode.
Measuring instrument	Oscilloscope	<ol style="list-style-type: none"> 1. Connector TPM0 to the ground via a capacitor (2200μF, 16V or more). 2. Short-circuit ground and pin ②7 of IC3001. 3. Set the signal generator output to 15.73kHz, 100mVrms sine wave and connect to TPL4. 4. Observe the waveform at TPM2 using a Low pass filter as shown in Figure. 5. Adjust VR3002 so that the amplitude of the waveform on the oscilloscope is minimum. 6. Open TPL4.
Test point	T P M 2	
EXT trigger	...	
Measurement range	DIV 20mV TIM 50 μ s	
Input signal	Sinewave signal (15.73kHz, 100mVrms)	
Input terminal	TPL4	
PCB-SIGNAL (COMPONENT SIDE)		
		
 <p style="text-align: center;">Low pass filter</p>		

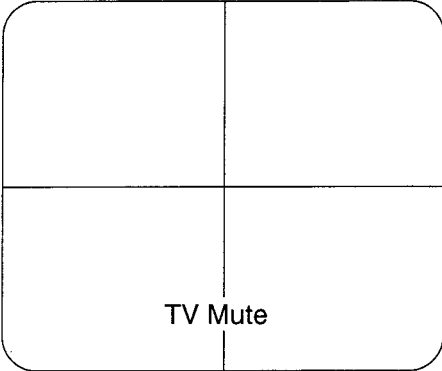
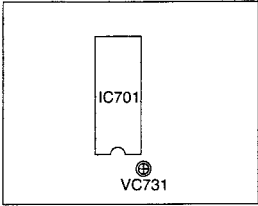
10. Separation and Spectral		Adjustment purpose Separating left and right audio signal.
		Symptom when incorrectly adjusted One signal will be mixed with the other.
Measuring instrument	Oscilloscope	<ol style="list-style-type: none"> 1. Set a multiplex audio signal generator to L-CH only, NR ON, PILOT ON, SAP OUT OFF, TELEMETRY OUT OFF with modulation at 300Hz, -11dBm. 2. Set an RF modulator to MONO, NR OFF, PILOT OFF, SAP OUT OFF, TELEMETRY OUT OFF, and set to AUDIO mode with 25kHz deviation. 3. Set the output level of an RF modulator to 0dBm. 4. Observe the waveform at TPM2 using a Low pass filter, as shown in Figure. 5. Adjust VR3003 so that an amplitude of the waveform (300Hz) on an oscilloscope is minimum. 6. Change the modulating signal from 300Hz to 3kHz. 7. Adjust VR3004 so that an amplitude of the waveform (3kHz) on an oscilloscope is minimum. 8. Repeat the above steps once more.
Test point	T P M 2	
EXT trigger	...	
Measurement range	DIV 10mV TIM 2ms	
Input signal	RF signal (multiplex audio)	
Input terminal	RF IN terminal	
PCB-SIGNAL (COMPONENT SIDE)		
		
 <p style="text-align: center;">Low pass filter</p>		

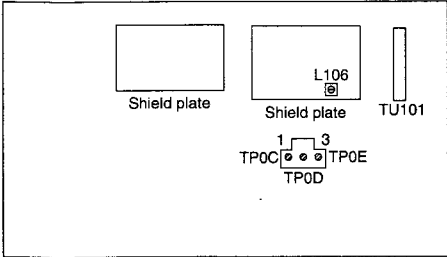
[PIP Circuit] 11. Write clock and Read clock		Adjustment purpose Clock frequency when writing or reading sub picture.
		Symptom when incorrectly adjusted Shifted sub picture, or sub picture does not appear.
Measuring instrument	Frequency counter	* Preheat the set for two minutes or more. 1. Display the same picture for main and sub picture with PIP button on the remote hand unit. 2. Press the VIDEO DOWN button. 3. Observe the frequency at TRWC. (Use the shield plate for ground.) 4. Adjust LC7102 so that the frequency is 13.81 ± 0.01 MHz. 5. Observe the frequency at TRRC. (Use the shield plate for ground.) 6. Adjust LC7101 so that the frequency is 31.3 ± 0.1 MHz. 7. Press the VIDEO UP button.
Test point	TRWC TRRC	
EXT trigger	...	
Measurement range	...	
Input signal	Video signal (color bar)	
Input terminal	VIDEO IN terminal	
PCB-PIP (COMPONENT SIDE)		PCB-PIP (SOLDER SIDE)
		

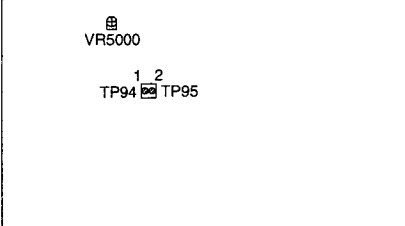
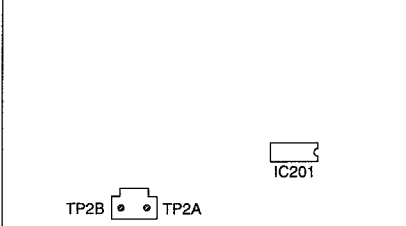
12. Y-Level		Adjustment purpose Y-level of main and sub picture.
		Symptom when incorrectly adjusted Different brightness between main and sub picture.
Measuring instrument	Oscilloscope	1. Display the same color bar for main and sub picture with PIP button on the remote hand unit. 2. Observe the waveform at pin ⑪ of connector VP. 3. Adjust VR7001 so that the amplitude of main and sub pictures level differs less than 40mVp-p.
Test point	Pin ⑪ of connector VP	
EXT trigger	...	
Measurement range	DIV 10mV TIM 10μs	
Input signal	Video signal (color bar)	
Input terminal	VIDEO IN terminal	
PCB-PIP (COMPONENT SIDE)		
		

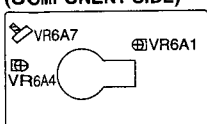
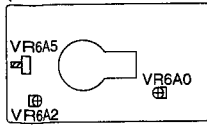
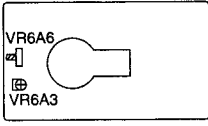
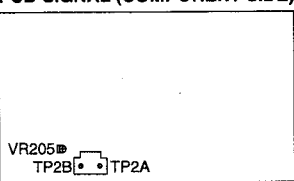
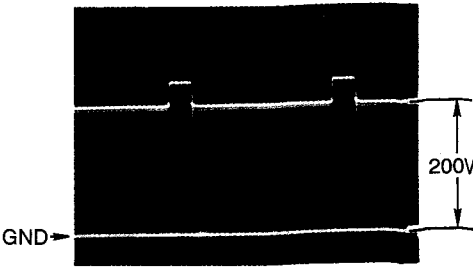
13. Sub chroma gain		Adjustment purpose Color level between main and sub picture.
		Symptom when incorrectly adjusted Different color level between main and sub picture.
Measuring instrument	Oscilloscope	<ol style="list-style-type: none"> 1. Display the same color bar for main and sub picture with PIP button on the remote hand unit. 2. Set VR7002 to the center position. 3. Observe the waveform at pin 9 of connector VP. 4. Adjust VR7002 so that the chroma amplitude of main and sub pictures differ less than 25mVp-p. <p>Note: Adjustment Item 14 (Sub TINT, Y-DELAY-WRITE) must be performed immediately after this one.</p>
Test point	Pin ⑨ of connector VP	
EXT trigger	...	
Measurement range	DIV 5mV TIM 10μs	
Input signal	Video signal (color bar)	
Input terminal	VIDEO IN terminal	
		

14. Sub TINT, Y-DELAY-WRITE		Adjustment purpose Hue between main and sub picture.
		Symptom when incorrectly adjusted Different hue between main and sub picture and color smear in contour.
Measuring instrument	...	<p>* Preheat the set for a minute or more.</p> <ol style="list-style-type: none"> 1. Press the MENU button on the remote control. 2. Press the "0", "0" and "7" buttons. 3. Press the PIP button. 4. Press the ADJUST buttons on the remote control to set both hue of the background image and the reduced image in PIP mode to the same. 5. Press the VIDEO UP button four times. 6. Press the ADJUST UP button and keep it until "OF" mark appears. 7. Press the MENU button twice.
Test point	...	
EXT trigger	...	
Measurement range	...	
Input signal	RF signal (color bar)	
Input terminal	RF IN terminal	

15. Character position		<p>Adjustment purpose Character positions on screen.</p> <p>Symptom when incorrectly adjusted Characters shifted to the left, or the right</p>
Measuring instrument	...	<ol style="list-style-type: none"> 1. Press Mute button on the remote hand unit, and display "TV Mute". 2. Adjust VC731 so that the left side of the "U" is at the center of the screen width. (See Figure below) <div style="text-align: center; margin: 20px 0;">  <p>Figure</p> </div>
Test point	...	
EXT trigger	...	
Measurement range	...	
Input signal	Video signal (center cross)	
Input terminal	VIDEO IN terminal	
<p>PCB-FS (COMPONENT SIDE)</p> 		

16. AFT2		<p>Adjustment purpose Setting frequency to the specified point of AFT circuit.</p> <p>Symptom when incorrectly adjusted Too sharp or too soft picture, or beats in picture.</p>
Measuring instrument	DC Voltmeter	<ol style="list-style-type: none"> 1. Supply an RF signal (color bar). 2. Short-circuit TPOE and TPOD. 3. Observe the DC voltage at TPOC. 4. Adjust L106 so that the DC voltmeter reads $2.2 \pm 0.1V$.
Test point	T P O C	
EXT trigger	...	
Measurement range	...	
Input signal	RF signal (color bar)	
Input terminal	RF IN terminal	
<p>PCB-SIGNAL (COMPONENT SIDE)</p> 		

17. High voltage rectifying	Adjustment purpose CRT anode voltage.	
	Symptom when incorrectly adjusted Too dark picture or X-ray protector operating.	
Measuring instrument	DC Voltmeter	<ol style="list-style-type: none"> 1. VIDEO FUNCTION are RESET. 2. Supply a video signal (mono scope). 3. Observe the DC voltage at TP94 and TP95 (Plus lead to TP94). 4. Short-circuit TP2A and TP2B. 5. Adjust VR5000 so that the voltage is $0.25 \pm 0.03V$. 6. Open-circuit TP2A and TP2B. <p>Note: Adjustment 18 (CRT cut off) must be performed immediately after this adjustment.</p>
Test point	(+) lead: TP94 (-) lead: TP95	
EXT trigger	...	
Measurement range	...	
Input signal	Video signal (mono scope)	
Input terminal	VIDEO IN terminal	
<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p>PCB-MAIN (COMPONENT SIDE)</p>  </div> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p>PCB-SIGNAL (COMPONENT SIDE)</p>  </div> </div>		

18. CRT cut off	Adjustment purpose Point of electron beam cut off for each electron gun.	
	Symptom when incorrectly adjusted Colored monochrome picture. Too bright or too dark picture.	
Measuring instrument	Oscilloscope	<p>* This adjustment must follow Item 17 (High voltage rectifying).</p> <ol style="list-style-type: none"> 1. Short-circuit TP2A and TP2B. 2. Supply a video signal (monoscope). 3. Set BRIGHT to reset position +11 and CONTRAST to reset position by ADJUST KEY. 4. Turn VR6A5, VR6A6, VR6A7 fully counter-clockwise. 5. Set VR6A2, VR6A3 and VR6A4 to the center position. 6. Set VR6A0, VR6A1 and VR205 to the center position. 7. Observe the waveform at TP6A. 8. Adjust VR205 so that the collector voltage is 200V as shown below. 9. Set VR6A5, VR6A6 and VR6A7 to a point where one RED, GREEN or BLUE line becomes just visible. 10. Open-circuit TP2A and TP2B. 11. Return BRIGHT and CONTRAST to the reset position. 12. Adjust VR205 so that the black level is optimum. <p>Note: Adjustment 19 (white balance) must be performed immediately after this adjustment.</p>
Test point	T P 6 A	
EXT trigger	...	
Measurement range	DIV 5V TIM 10 μ s	
Input signal	Video signal (mono scope)	
Input terminal	VIDEO IN terminal	
<div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> <p>PCB-CRT(B) (COMPONENT SIDE)</p>  </div> <div style="width: 20%;"> <p>PCB-CRT(R) (COMPONENT SIDE)</p>  </div> <div style="width: 20%;"> <p>PCB-CRT(G) (COMPONENT SIDE)</p>  </div> <div style="width: 20%;"> <p>PCB-SIGNAL (COMPONENT SIDE)</p>  </div> <div style="width: 30%; text-align: right;">  </div> </div>		

19. White balance **Adjustment purpose** Point of electron beam cut off for each electron gun.
Symptom when incorrectly adjusted Colored monochrome picture.

Measuring instrument	DC milliammeter
Test point	R6G3, R6G4, R6G5
EXT trigger	...
Measurement range	...
Input signal	Video signal (white raster)
Input terminal	VIDEO IN terminal

- * This adjustment must follow Item 18 (CRT cut off).
 * This adjustment must be performed only when focus is good.
 If focus is not good, set the focus to good, and then perform this adjustment.
1. Supply a video signal (white raster).
 2. VIDEO FUNCTION are RESET.
 3. Adjust VR6A0 and VR6A1 so that the current ratios of light tubes are according to the following table.

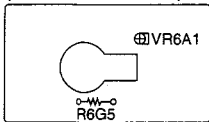
CRT	Ratio	Current
R	0.42	250 μ A
G	1.00	595 μ A
B	0.85	505 μ A

4. Confirm that the current of Green and blue should not over following table.

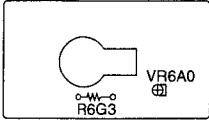
Max Current

	Current
GREEN	630 μ A
BLUE	580 μ A

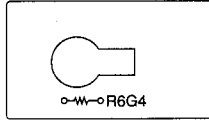
PCB-CRT(B)
(COMPONENT SIDE)



PCB-CRT(R)
(COMPONENT SIDE)



PCB-CRT(G)
(COMPONENT SIDE)



Note: Connecting point (step 2 and 3)

- RED : (+) R6G3 (Cathode side), (-) R6G3 (Tr side)
 GREEN : (+) R6G4 (Cathode side), (-) R6G4 (Tr side)
 BLUE : (+) R6G5 (Cathode side), (-) R6G5 (Tr side)

Note: Adjustment 20 (Video) must be performed immediately after this adjustment.

20. Video **Adjustment purpose** The best value of beam current.
Symptom when incorrectly adjusted Too bright or too dark picture.

Measuring instrument	DC milliammeter
Test point	(+) lead: TP91 (-) lead: TP1Z
EXT trigger	...
Measurement range	...
Input signal	Video signal (gray scale)
Input terminal	VIDEO IN terminal

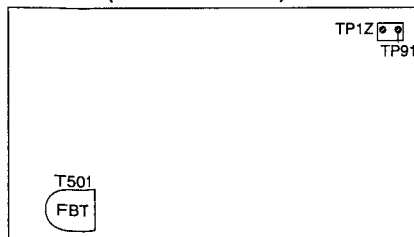
- * This adjustment must follow Item 19 (white balance).
1. Supply a video signal (gray scale).
 2. VIDEO FUNCTION are RESET.
 3. Short-circuit TP2C and TP2D.
 4. Turn VR204 to fully counter clockwise from component side.
 5. Observe the DC current at TP91 and TP1Z. (Plus lead to TP91)
 6. Adjust VR204 so that a DC milliammeter reads the value shown in the table below.

MODULATION	ADJUST CURRENT
	ALL MODEL
87.5%	500 μ A

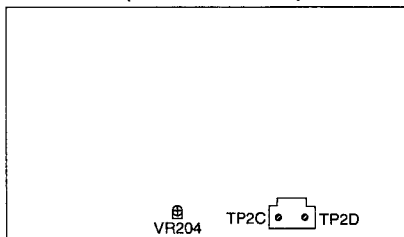
7. Open-circuit TP2C and TP2D.

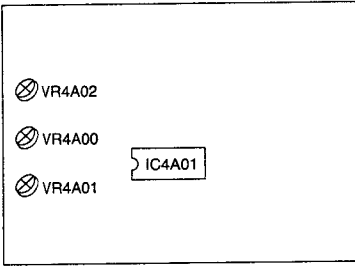
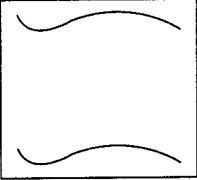
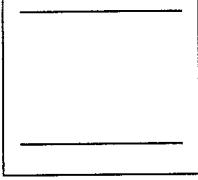
Note: Adjustment 21 must be performed immediately after this adjustment.

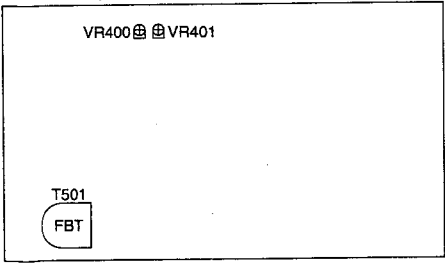
PCB-MAIN (COMPONENT SIDE)

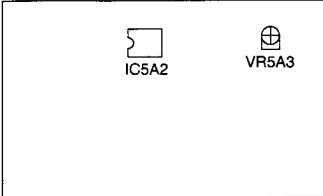


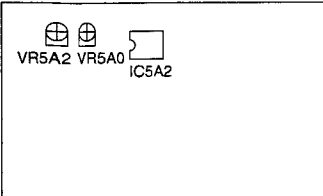
PCB-SIGNAL (COMPONENT SIDE)



21. Top bottom PCC		Adjustment purpose Minimize top and bottom Pincushion distortion. Symptom when incorrectly adjusted Top or bottom of the picture is bowed.	
Measuring instrument	...	* This adjustment must follow Item 20 (Video). 1. Supply a video signal (crosshatch). 2. Cover the RED and BLUE lenses, producing a green monochrome picture on the screen. 3. Make sure that the horizontal center line on screen is horizontal. If it is not, turn DEFL-YOKE so that the horizontal center line on screen is horizontal. 4. Observe the top and bottom lines. 5. Adjust VR4A00 so that the horizontal top line is straight. 6. Adjust VR4A01 so that the horizontal bottom line is straight. 7. Adjust VR4A02 so that the top and bottom lines are horizontal. Note: Adjustment 22 (Vertical height, linearity) must be performed immediately after this adjustment.	
Test point	...		
EXT trigger	...		
Measurement range	...		
Input signal	Video signal (crosshatch)		
Input terminal	VIDEO IN terminal		
PCB-PCC (COMPONENT SIDE) 		 INCORRECT	 CORRECT

22. Vertical height, linearity		Adjustment purpose Vertical height, linearity and picture position. Symptom when incorrectly adjusted Vertically improper picture position.	
Measuring instrument	...	* This adjustment must follow Item 21 (Top bottom PCC). 1. VIDEO FUNCTION are RESET. 2. Supply a video signal (monoscope). 3. Cover the RED and BLUE lenses, producing a green monochrome picture on the screen. 4. Adjust VR400 so that the amplitude is 92.6% of the total height of the screen. 5. Adjust VR401 to get a linearity in which picture is symmetric about the horizontal center line. 6. Adjust VR400 so that the markers of the large circle on the monoscope, sum to '4'. Note: Bottom side marker value must be 1.5 or more. 7. If necessary, fine adjust each VR by repeating the above steps. Note: Adjustment 23 (Horizontal width) must be performed immediately after this adjustment.	
Test point	...		
EXT trigger	...		
Measurement range	...		
Input signal	Video signal (mono scope)		
Input terminal	VIDEO IN terminal		
PCB-MAIN (COMPONENT SIDE) 			

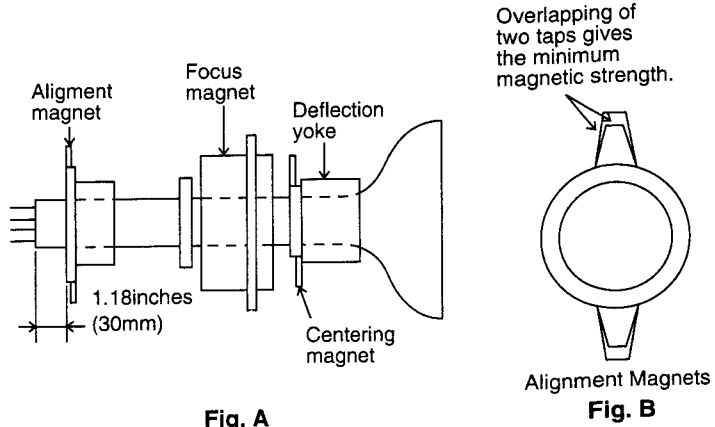
23. Horizontal width		Adjustment purpose Horizontal width of picture.
		Symptom when incorrectly adjusted Picture compressed or expanded horizontally.
Measuring instrument	...	<p>* This adjustment must follow Item 22 (Vertical height, linearity). * Repeatedly this adjustment and adjustment Item 24 (Horizontal raster deflection correction).</p> <ol style="list-style-type: none"> 1. Supply a video signal (monoscope). 2. Cover the RED and BLUE lenses, producing a green monochrome on the screen. 3. Adjust horizontal width with VR5A3 so that the sum of markers is 6.
Test point	...	
EXT trigger	...	
Measurement range	...	
Input signal	Video signal (monoscope)	
Input terminal	VIDEO IN terminal	
PCB-SIDE-PIN (COMPONENT SIDE)		
		

24. Horizontal raster deflection correction		Adjustment purpose Horizontal linearity of picture.
		Symptom when incorrectly adjusted Horizontal deflection of picture.
Measuring instrument	...	<p>* Repeat this adjustment and item #23 (Horizontal width) until an optional raster is produced.</p> <ol style="list-style-type: none"> 1. Supply a video signal (crosshatch). 2. Cover the RED and BLUE lenses, producing a green monochrome on the screen. 3. Adjust VR5A2 so that the keystone on the screen is minimum. 4. Adjust VR5A0 so that the vertical lines of both sides is linear. <p>Note: Make sure that the keystone is minimum after step 4. If it is not, repeat the adjustment of step 3.</p> <p>Note: Adjustment 25 (FOCUS) must be performed immediately after this adjustment.</p>
Test point	...	
EXT trigger	...	
Measurement range	...	
Input signal	Video signal (cross hatch)	
Input terminal	VIDEO IN terminal	
PCB-SIDE-PIN (COMPONENT SIDE)		
		

25. FOCUS	Adjustment purpose Sharpness of picture.
	Symptom when incorrectly adjusted Poor sharpness of picture.

Measuring instrument	...
Test point	...
EXT trigger	...
Measurement range	...
Input signal	Video signal (center cross)
Input terminal	VIDEO IN terminal

- * This adjustment must follow Item 24 (Horizontal raster deflection correction).
- * This adjustment should be performed only when CRT is replaced or reinstalled. You must not adjust the alignment magnet and the focus magnet except when replacing or reinstalling the CRT.
- * To each CRT, red, green and blue, make sure that the deflection yoke, the focus magnet and the alignment magnet on the CRT neck are assembled to the specified positions. (See Fig. A)
- * When adjusting one of the CRTs, the others should be shielded.



Note: Position deflection yoke and focus magnet assembly together so that there is no space between these parts.

1. Supply a video signal (center cross signal).
 2. Rotate or open a centering magnet so that picture is located at the center on the screen.
- Note:** If adjusting a red or a blue CRT, adjust a green CRT at first, and the red or the blue so that the red or the blue picture lies on the green.
3. Minimize the magnetic strength of the alignment magnet. (See Fig. B)
 4. Turn a focus control of a color required, VR8800(R), VR8801(G) or VR8802(B) full counterclockwise to produce halo on the screen. (See Fig. C. Contrary to blooming, a picture with the "wicks" at the center.)
 5. Check where the center position of the intersection of the center cross line is on the screen (See Fig. C)
 6. Turn a focus control of a color required, VR8800(R), VR8801(G) or VR8802(B) full clockwise to produce blooming on the screen. (See Fig. C, a picture without with "wicks" at the center.)
 7. Check where the center position of the intersection of the center cross line is on the screen (See Fig. D)

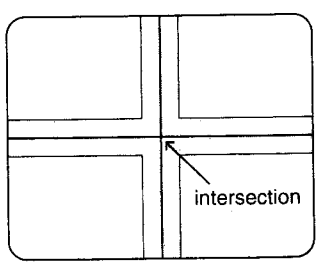
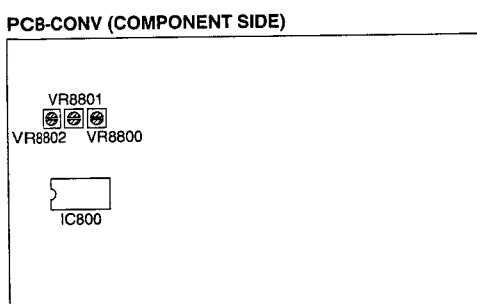


Fig. C
Halo

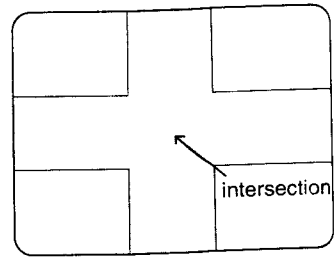
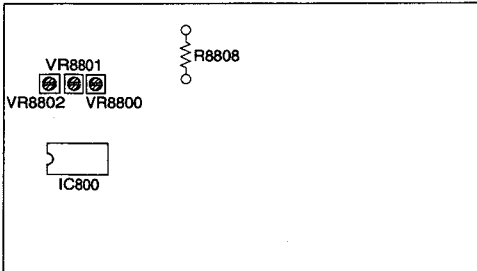
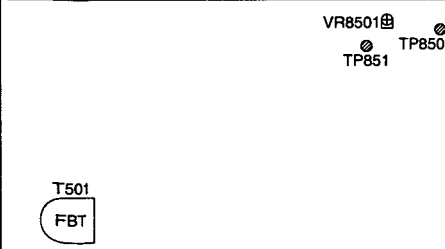
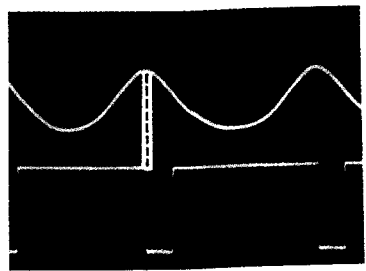


Fig. D
Blooming

8. Rotate the focus magnet and turn or open the alignment magnet to locate both intersections under halo and blooming conditions to the same position.
9. Adjust a focus control required so that the focus is the best.

Note: Adjustment 26 (Electrical magnetic focus) must be performed immediately after this one.

26. Electrical magnetic focus		Adjustment purpose The best resolution of picture. Symptom when incorrectly adjusted Out of focus picture.
Measuring instrument	DC Voltmeter	* This adjustment must follow Item 25 (FOCUS). 1. Supply a video signal (monoscope). 2. VIDEO FUNCTION are RESET. 3. Adjust VR8800, VR8801 and VR8802 so that the sharpness of the Top area on screen is optimum. 4. Adjust VR8802 so that the voltage across R8808 is decreased 3.2V. 5. Supply a video signal (crosshatch). 6. Make sure that the red width is equal to the green width. If it is not, adjust VR8800 so that the red width is equal to the green width. Note: Adjustment 27 (Dynamic focus phase) must be performed immediately after this one.
Test point	R8808	
EXT trigger	...	
Measurement range	...	
Input signal	Video signal (monoscope, cross hatch)	
Input terminal	VIDEO IN terminal	
PCB-CONV (COMPONENT SIDE) 		

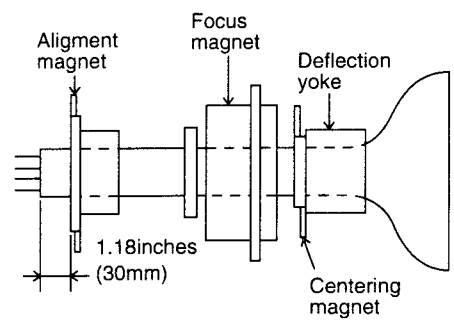
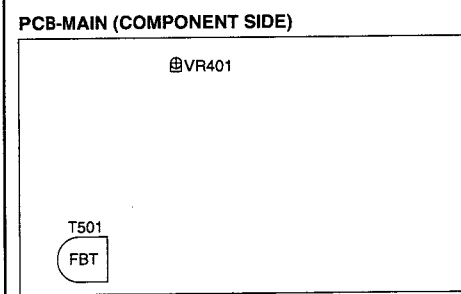
27. Dynamic focus phase		Adjustment purpose The best ambient resolution of picture. Symptom when incorrectly adjusted Dull ambient picture.
Measuring instrument	Oscilloscope	* This adjustment must follow Item 26 (Electrical magnetic focus). 1. Supply a video signal (monoscope). 2. Observe the waveform at TP851 and TP850. (CH-1 to TP851) 3. Adjust VR8501 so that a discontinuous point of the waveform on CH-1 coincide with a falling edge of the waveform on CH-2 as below. Note: Adjustment 28 (Static convergence) must be performed immediately after this one.
Test point	TP851, TP850	
EXT trigger	...	
Measurement range	DIV 2V TIM 20μs	
Input signal	Video signal (monoscope)	
Input terminal	VIDEO IN terminal	
PCB-MAIN (COMPONENT SIDE) 		 Adjust to match this point.

28. Static convergence	Adjustment purpose Correcting color impurity by installed direction. Symptom when incorrectly adjusted Color edging around objects in the picture.
------------------------	---

Measuring instrument	...
Test point	...
EXT trigger	...
Measurement range	...
Input signal	Video signal (cross hatch)
Input terminal	VIDEO IN terminal

- * This adjustment must follow Item 27 (Dynamic focus phase).
1. Supply a VIDEO signal. (cross hatch)
 2. VIDEO FUNCTION are RESET.
 3. Degauss the metal around the CRT. Be sure not to DE-magnetize the focus magnet.
 4. Adjust VR401 for rough vertical linearity.
 5. Feed an external cross-hatch generator signal.
 6. Adjust green centering magnet to center the green cross-hatch in the center of the screen.
 7. Adjust red and blue centering magnets to converge red and blue cross-hatch to the green cross-hatch at the center of the screen.

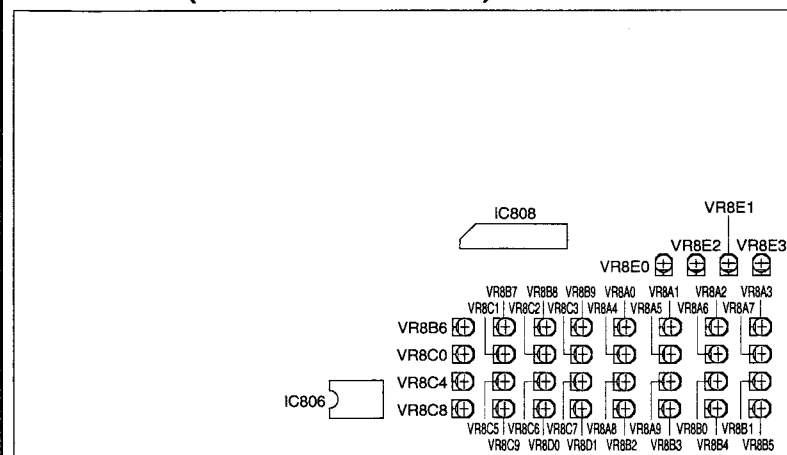
Note:
 Do not use the internally generated crossbar pattern for this adjustment procedure, since the center of the internal crossbar pattern will not necessarily be located in the center of the screen.
Note: Adjustment 29 (Dynamic convergence) must be performed immediately after this adjustment.



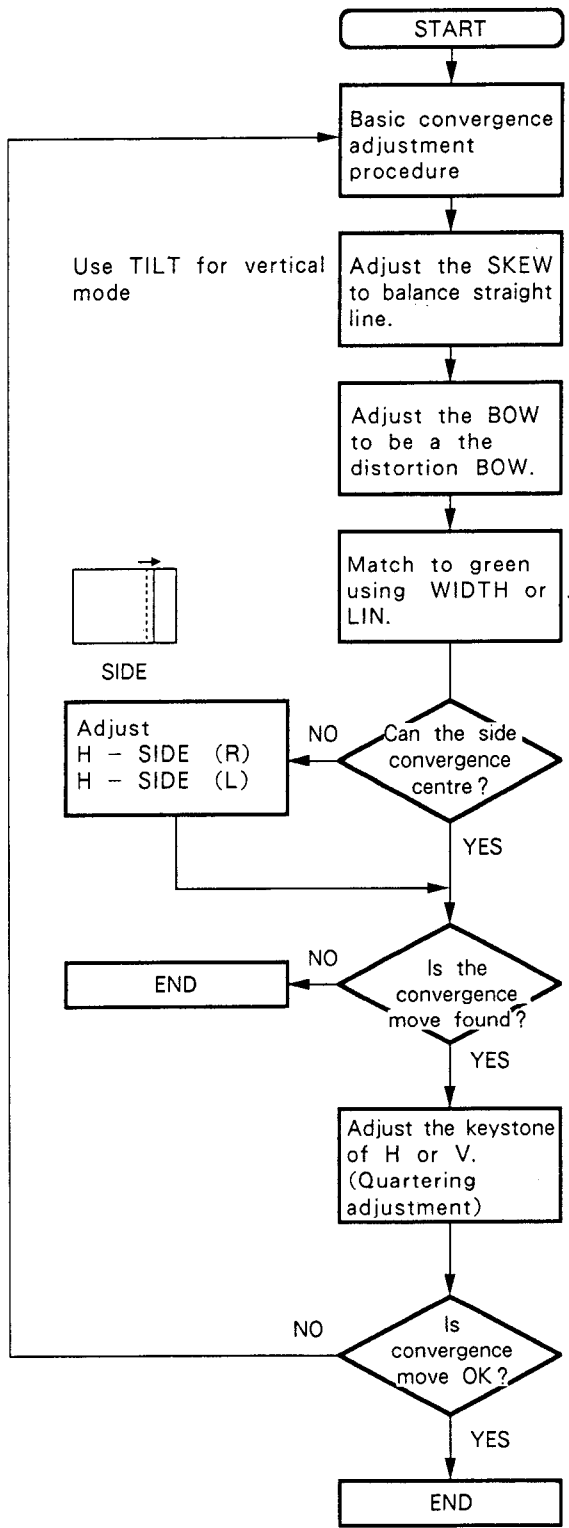
29. Dynamic convergence		Adjustment purpose To converge the edges of the picture.
		Symptom when incorrectly adjusted Color fringing at the edges of the picture.
Measuring instrument	...	<p>* This adjustment must follow the adjustment in Item 28.</p> <p>* Dynamic Convergence should not be attempted until the Static Convergence has been properly adjusted (including centering adjustments, if required).</p> <p>In this adjustment, green is stationary, and only red and blue are adjustable. Accordingly, the red and blue lines are converged to the green line with a convergence adjustment flowchart on the following page. Convergence is simplified when working with only two colors. First, adjust the red controls to converge the red lines to the green lines, then adjust the blue controls to converge the blue lines to the green lines.</p>
Test point	...	
EXT trigger	...	
Measurement range	...	
Input signal	Video signal (cross hatch)	
Input terminal	VIDEO IN terminal	

Red	Blue	Item	Adjusting Method
VR8A2	VR8A0	Vertical tilt	Merge horizontal centre line with green line
VR8B0	VR8A8	Vertical height	Merge horizontal line with green line
VR8B4	VR8B2	Vertical linearity	Merge horizontal line with green line
VR8A6	VR8A4	Vertical bow	Merge horizontal centre line with green line
VR8B1	VR8A9	Skew	Merge vertical centre line with green line
VR8B5	VR8B3	Horizontal bow	Merge vertical centre line with green line
VR8A3	VR8A1	Horizontal width	Merge vertical centre line with green line
VR8A7	VR8A5	Horizontal linearity	Merge vertical centre line with green line
VR8B9	VR8B7	Horizontal keystone	Merge upper left vertical line with green line (A)
VR8C3	VR8C1	Horizontal keystone	Merge lower left vertical line with green line (B)
VR8C7	VR8C5	Horizontal keystone	Merge lower right vertical line with green line (C)
VR8D1	VR8C9	Horizontal keystone	Merge upper right vertical line with green line (D)
VR8B8	VR8B6	Vertical keystone	Merge upper left horizontal line with green line (A)
VR8C2	VR8C0	Vertical keystone	Merge lower left horizontal line with green line (B)
VR8C6	VR8C4	Vertical keystone	Merge lower right horizontal line with green line (C)
VR8D0	VR8C8	Vertical keystone	Merge upper right horizontal line with green line (D)
VR8E2	VR8E3	Horizontal side linearity	Merge left vertical line with green line
VR8E1	VR8E0	Horizontal side	Merge right vertical line with green line

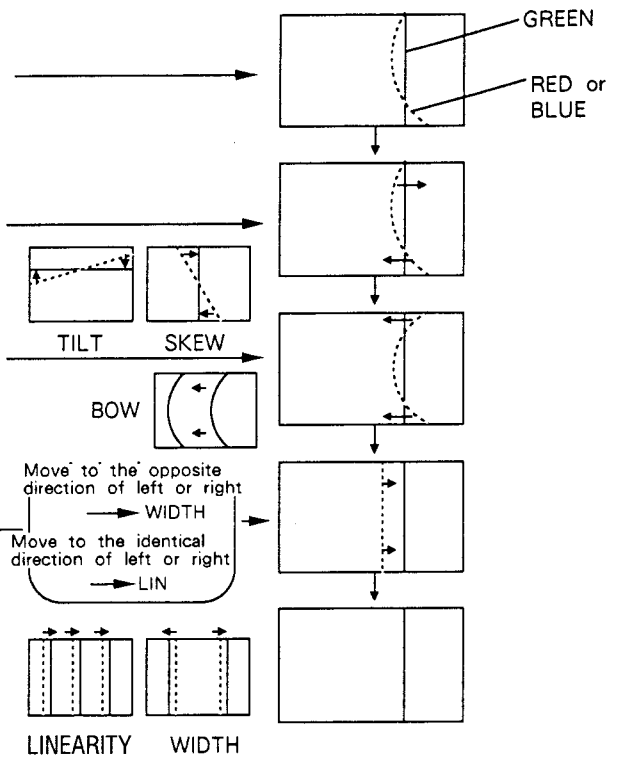
PCB-CONV (COMPONENT SIDE)



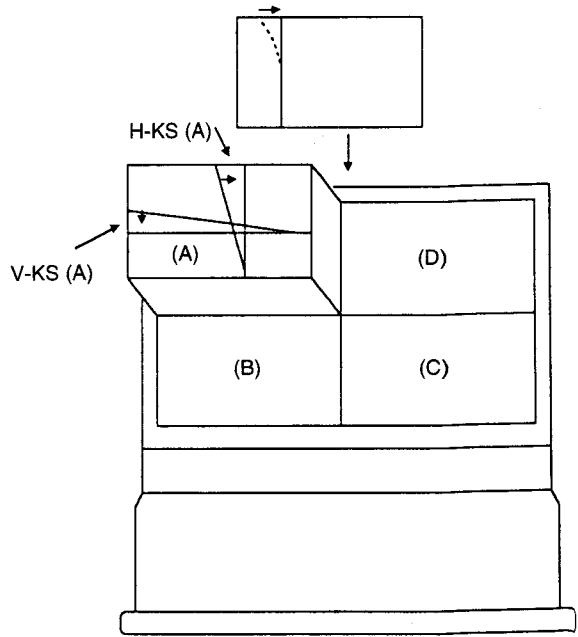
Convergence adjustment flowchart



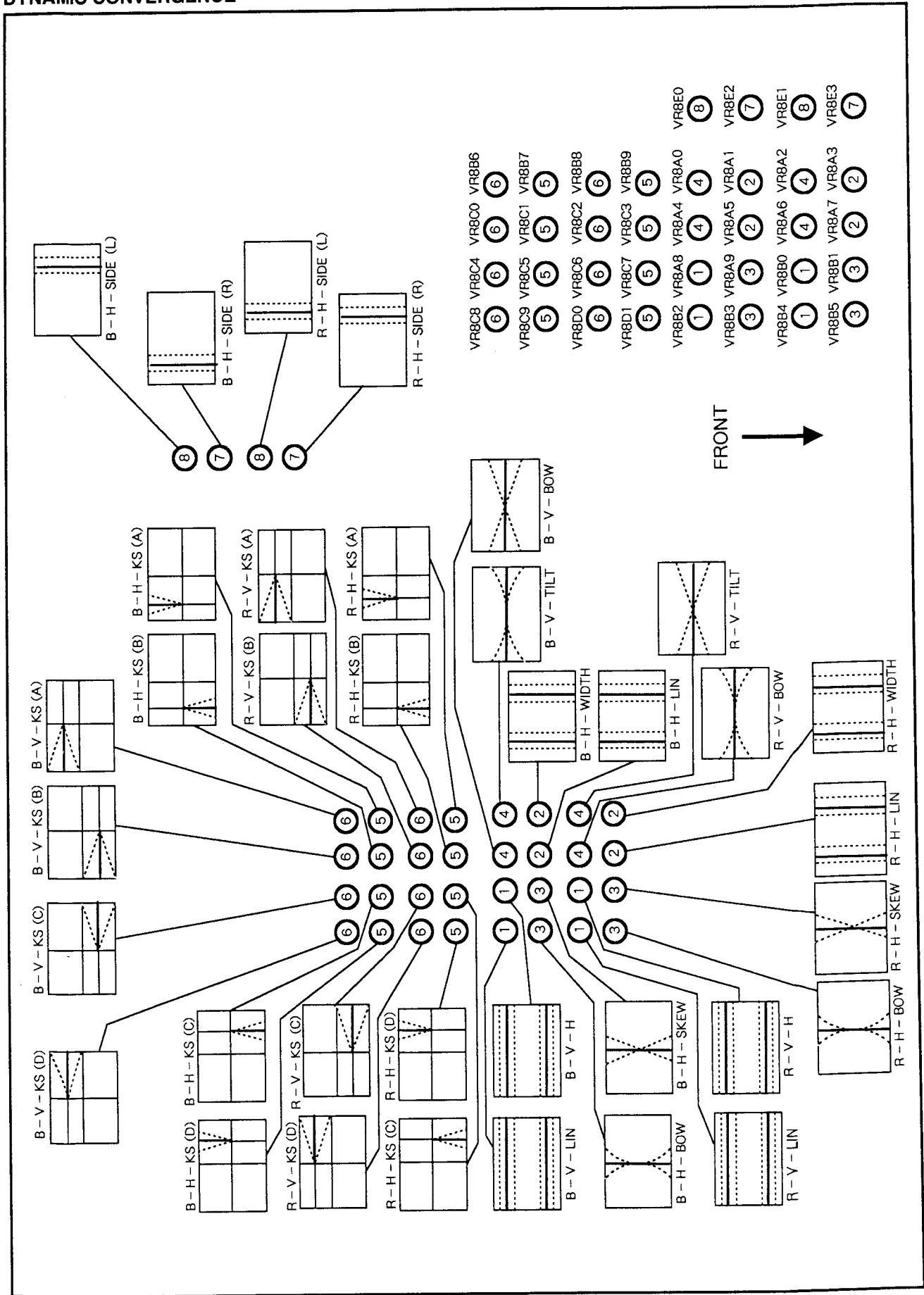
Check the elements of convergence distortion



Quadrant convergence adjustment

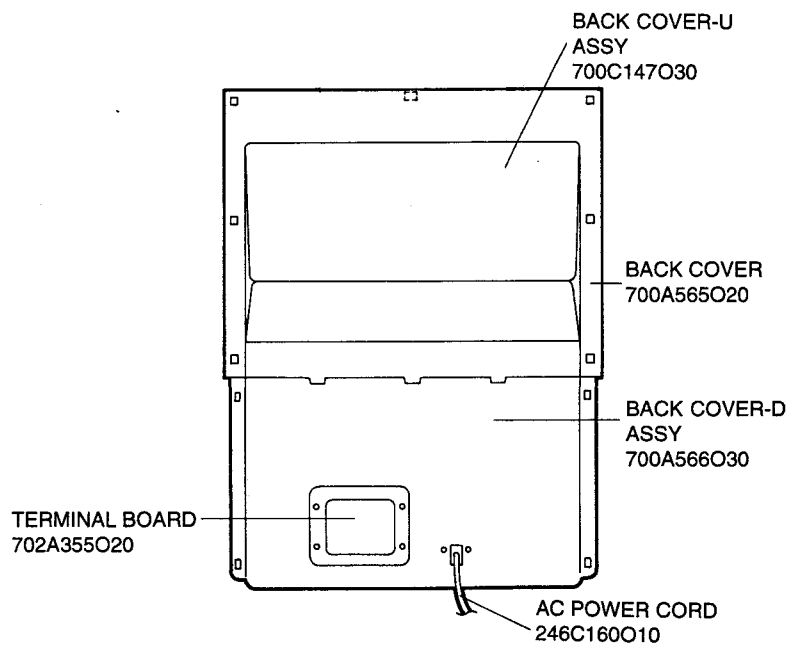
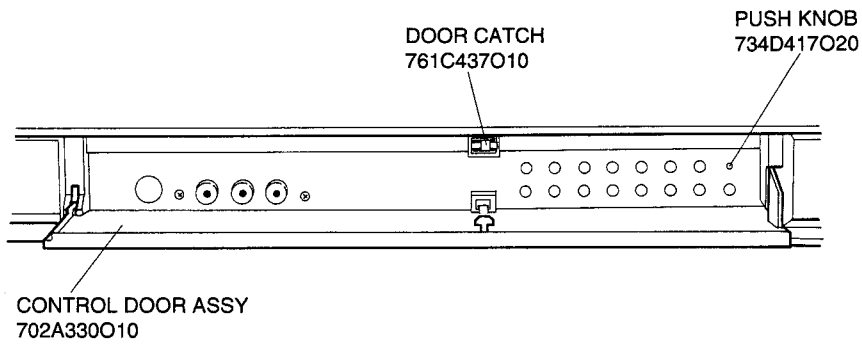
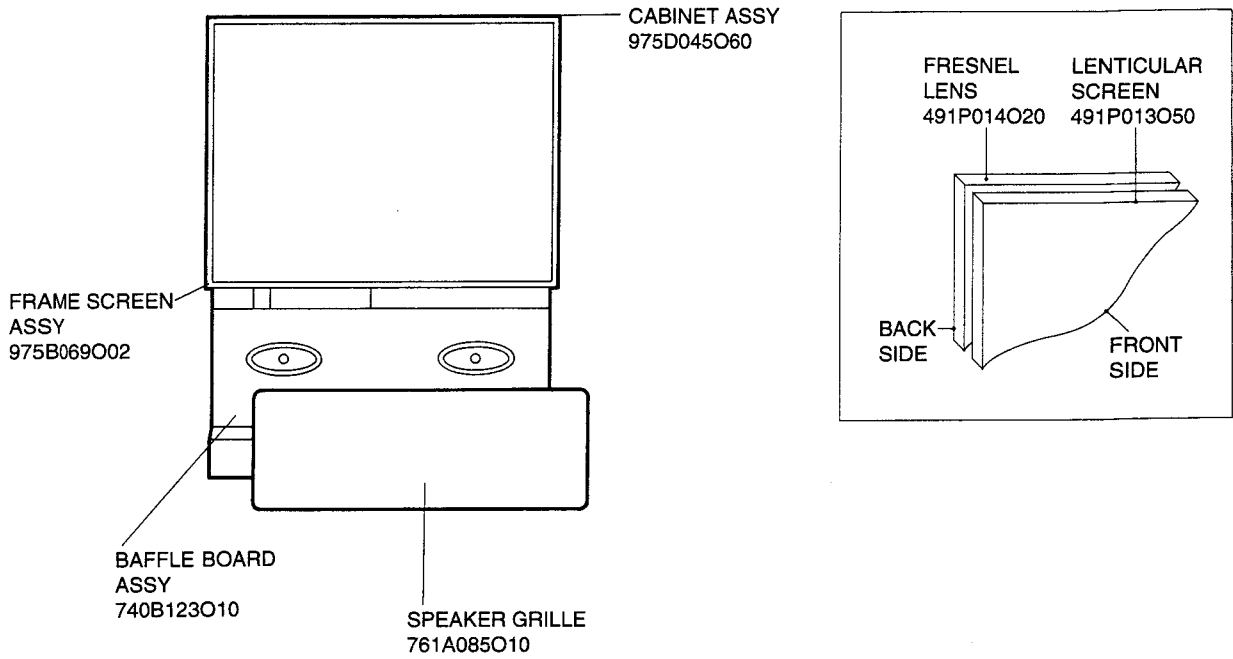


DYNAMIC CONVERGENCE



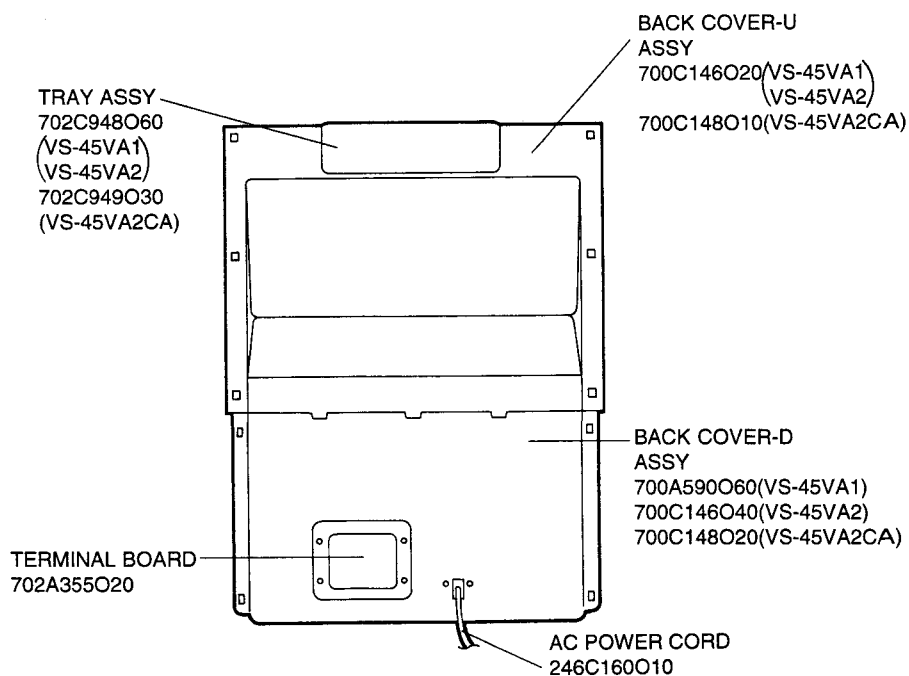
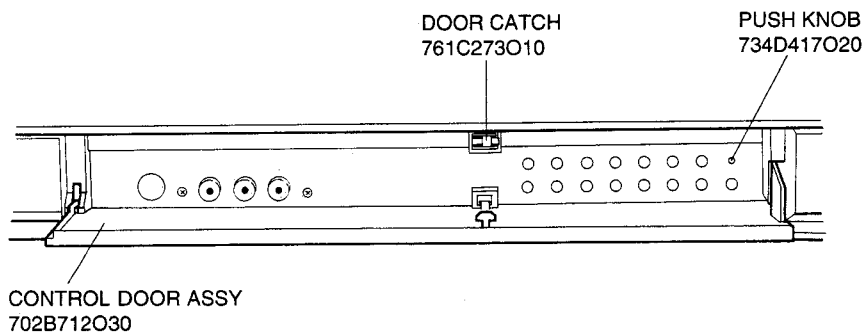
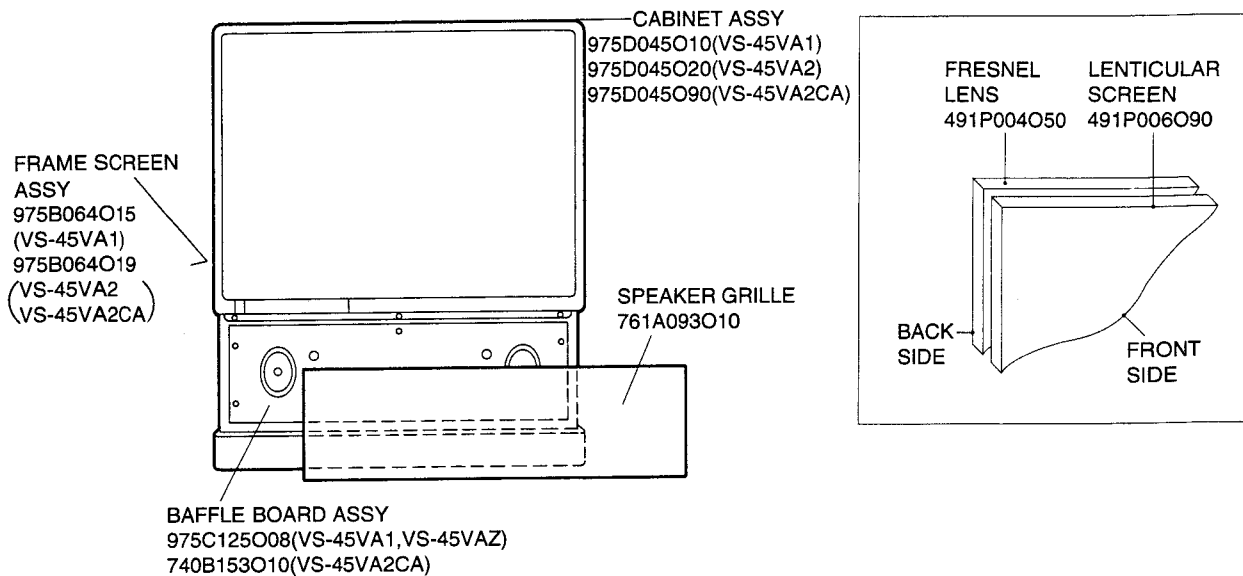
CABINET AND SCREEN PARTS

[40"]



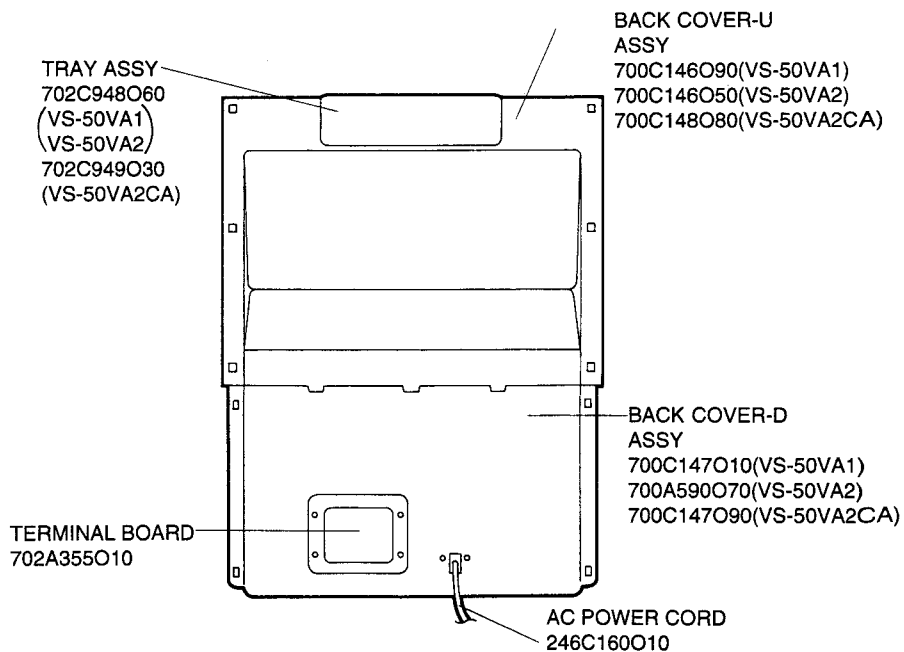
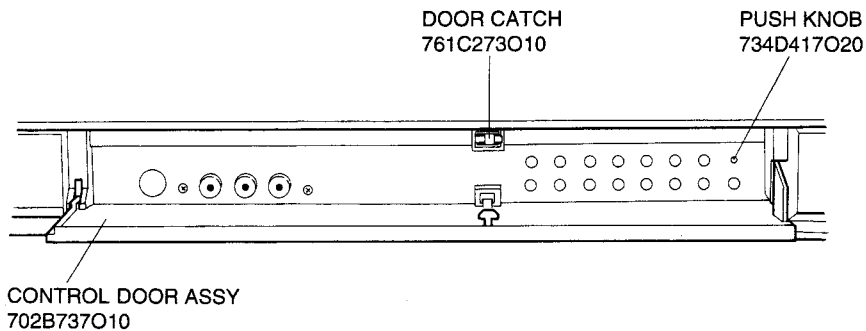
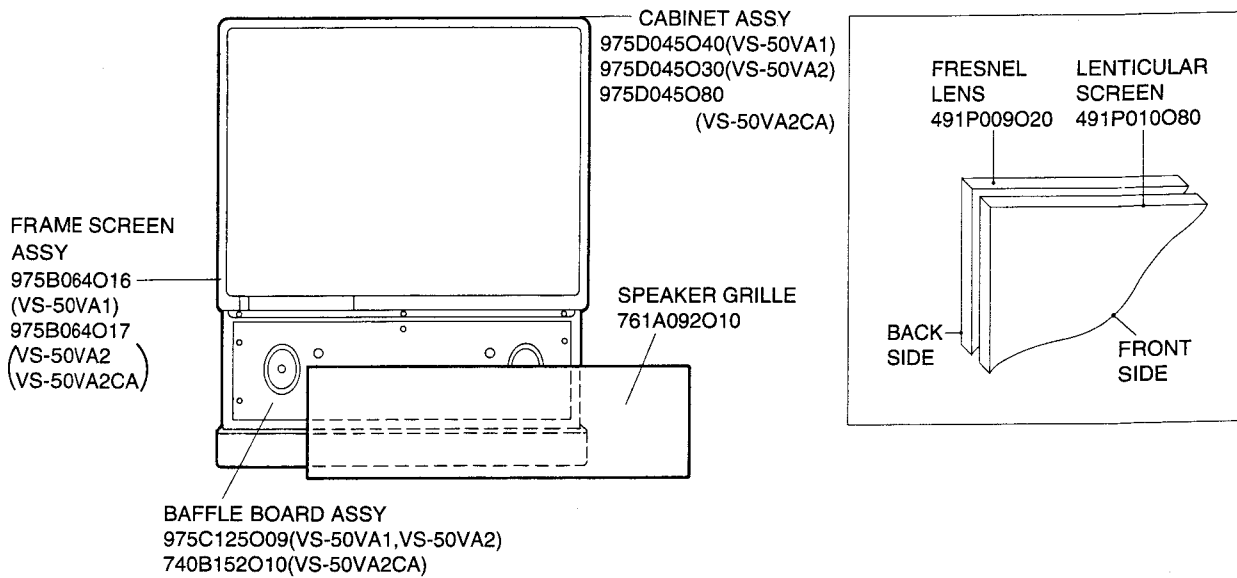
CABINET AND SCREEN PARTS

[45"]



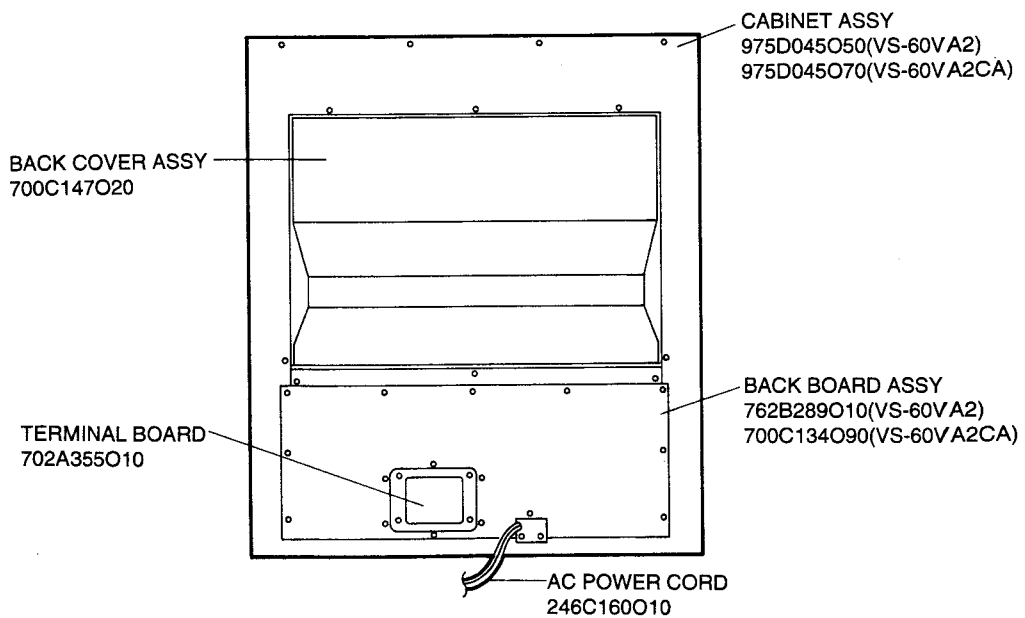
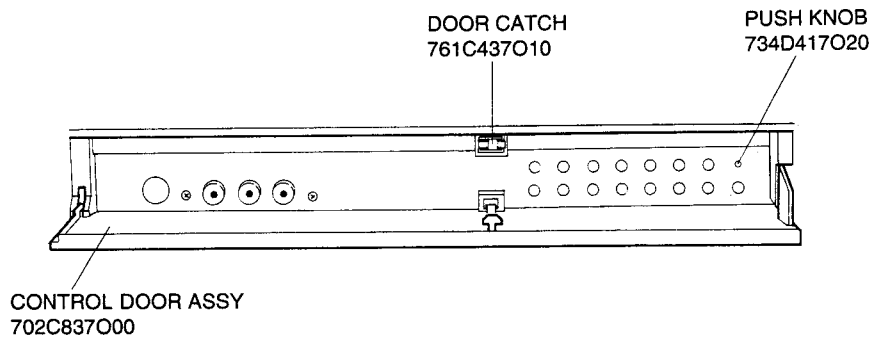
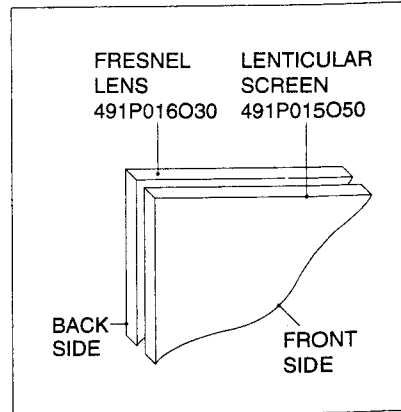
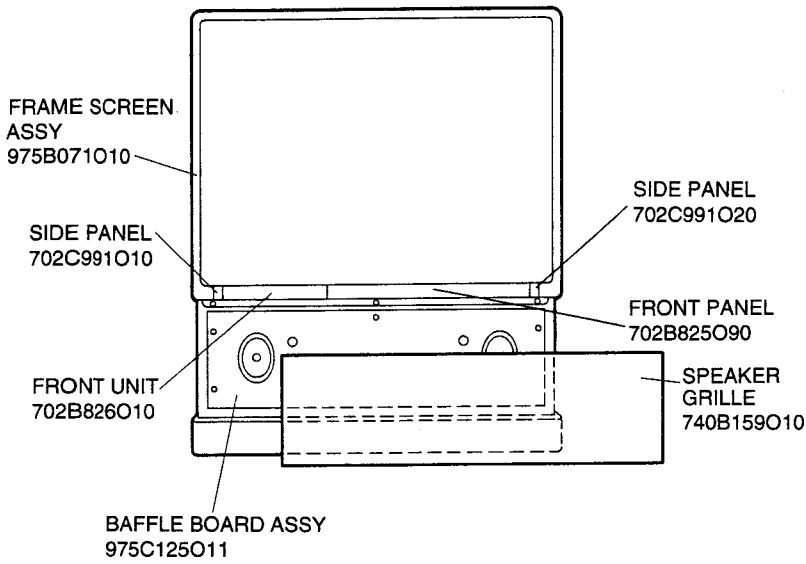
CABINET AND SCREEN PARTS

[50"]



CABINET AND SCREEN PARTS

[60"]



PARTS LIST

MODEL : VS - 45VA1 / VS - 50VA1

In order to expedite delivery of replacement part orders.

- Specify : 1. Model number / Serial number
- 2. Part number and Description
- 3. Quantity

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

* : Warranty return items

 : Critical components

MARK	B	C	D	F	G	J	K
TOLERANCE (%)	± 0.1	± 0.25	± 0.5	± 1	± 2	± 5	± 10

MARK	M	N	V	X	Z	P	Q
TOLERANCE (%)	± 20	± 30	+ 10 - 10	+ 40 - 20	+ 80 - 20	+ 100 - 0	+ 30 - 10

MARK	B	C	D	F	G
TOLERANCE (pF)	± 0.1	± 0.25	± 0.5	± 1	± 2

ABBREVIATION

[45] : VS - 45VA1

[50] : VS - 50VA1

[45] : VS - 45VA1

[50] : VS - 50VA1

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
TUBES							
	251C037040	CRT ASSY	RED-MONOCHROME [45]	IC7606	263P546010	IC	M66320P
	251C037050	CRT ASSY	GREEN-MONOCHROME [45]	IC800	272P690010	IC	PA0036
	251C037060	CRT ASSY	BLUE-MONOCHROME [45]	IC801	272P106020	IC	μ PC4574C
	251C039040	CRT ASSY	RED-MONOCHROME [50]	IC802	272P106020	IC	μ PC4574C
	251C039050	CRT ASSY	GREEN-MONOCHROME [50]	IC803	263P053020	IC	TC4053BP
	251C039060	CRT ASSY	BLUE-MONOCHROME [50]	IC804	272P106020	IC	μ PC4574C
INTEGRATED CIRCUITS				IC805	272P106020	IC	μ PC4574C
IC101	272P026010	IC	M51366SP	IC806	272P106020	IC	μ PC4574C
IC201	272P467010	IC	M52023SP	IC807	272P106030	IC	μ PC4570HA
IC202	272P181010	IC	CX20125	IC808	272P106030	IC	μ PC4570HA
IC203	266P064010	IC	M51320P	IC809	266P727010	IC	μ PC339C/MC3302P
IC204	272P302010	IC	PA0030	IC811	266P934020	IC	μ PC7812H
IC205	272P865010	IC	HA11561	IC812	266P919010	IC	μ PC7912H
IC206	272P631010	IC	AN91A14K	IC8A0	267P077020	IC	STK391-020
IC209	266P686010	IC	MSM5258RS	IC8A1	267P077020	IC	STK391-020
IC2001	267P076010	IC	SI-3120C	IC8501	263P306010	IC	TC74HC123AP
IC2002	267P076020	IC	SI-3090C	IC8551	267P108010	IC	STK396-010
IC2003	267P076030	IC	SI-3050C	IC8801	267P825020	IC	STK4275MB
IC2004	263P560010	IC	M62359P	IC9A0	267P112010	IC	STR-M6511
IC300	272P440010	IC	LA4282	IC9A1	267P062010	IC	SE130N
IC3001	272P351020	IC	μ PC1871CU	TRANSISTORS			
IC3301	266P419030	IC	M5223L	Q 101	260P356010	TRANSISTOR	2SC1906
IC3302	272P139020	IC	LA7953-N	Q 102	260P559030	TRANSISTOR	2SC1740S-S
IC3303	266P172010	IC	M5218L	Q 103	260P560040	TRANSISTOR	2SA933S-S
IC3304	272P373020	IC	5222P	Q 104	260P559030	TRANSISTOR	2SC1740S-S
IC3305	266P172010	IC	M5218L	Q 105	260P356010	TRANSISTOR	2SC1906
IC3306	266P419030	IC	M5223L	Q 201	260P559030	TRANSISTOR	2SC1740S-S
IC3307	272P184010	IC	LA7222	Q 221	260P559030	TRANSISTOR	2SC1740S-S
IC3308	272P184010	IC	LA7222 [50]	Q 222	260P559030	TRANSISTOR	2SC1740S-S
IC401	272P239050	IC	LA7838-S	Q 223	260P559030	TRANSISTOR	2SC1740S-S
IC4A00	263P306010	IC	TC74HC123AP	Q 224	260P559030	TRANSISTOR	2SC1740S-S
IC4A01	272P263010	IC	CXA 1268-P	Q 240	260P559030	TRANSISTOR	2SC1740S-S
IC4A02	272P106020	IC	μ PC4574C	Q 263	260P559030	TRANSISTOR	2SC1740S-S
IC4A03	263P053020	IC	TC4053BP	Q 264	260P560040	TRANSISTOR	2SA933S-S
IC4B04	272P106010	IC	μ PC-4570C	Q 280	260P559030	TRANSISTOR	2SC1740S-S
IC500	266P154010	IC	μ PC393C	Q 2B0	260P559030	TRANSISTOR	2SC1740S-S
IC5A0	272P132010	IC	AN 5551	Q 2B1	260P559030	TRANSISTOR	2SC1740S-S
IC5A1	272P106030	IC	μ PC4570HA	Q 2B2	260P559030	TRANSISTOR	2SC1740S-S
IC5000	272P240010	IC	M5237L	Q 2D0	260P559030	TRANSISTOR	2SC1740S-S
IC701	274P200010	IC	M37204M8-561SP	Q 2H0	260P559030	TRANSISTOR	2SC1740S-S
IC702	263P170030	IC	CAT35C102HP	Q 2H1	260P560040	TRANSISTOR	2SA933S-S
IC703	272P758010	IC	M62358P	Q 2K1	260P560040	TRANSISTOR	2SA933S-S
IC704	274P008020	IC	MN1380-L	Q 2K2	260P559030	TRANSISTOR	2SC1740S-S
IC706	267P076030	IC	SI-3050C	Q 2K3	260P559030	TRANSISTOR	2SC1740S-S
IC7000	272P860010	IC	HA11574	Q 2K4	260P559030	TRANSISTOR	2SC1740S-S
IC7100	274P177010	IC	HD49416FS	Q 2K5	260P559030	TRANSISTOR	2SC1740S-S
IC7101	263P548010	IC	M5M4C264L-12	Q 2K6	260P559030	TRANSISTOR	2SC1740S-S
IC7601	272P184010	IC	LA7222	Q 2L1	260P560040	TRANSISTOR	2SA933S-S
IC7602	272P394010	IC	LA7956	Q 2L2	260P560040	TRANSISTOR	2SA933S-S
IC7603	272P394010	IC	LA7956	Q 2L3	260P560040	TRANSISTOR	2SA933S-S
IC7604	272P164010	IC	LA7220	Q 2M0	260P559030	TRANSISTOR	2SC1740S-S
IC7605	266P064010	IC	M51320P	Q 2M1	260P559030	TRANSISTOR	2SC1740S-S
				Q 2N0	260P559030	TRANSISTOR	2SC1740S-S
				Q 2N1	260P559030	TRANSISTOR	2SC1740S-S

[45] : VS - 45VA1

[50] : VS - 50VA1

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
Q 2P1	260P559030	TRANSISTOR	2SC1740S-S	Q 7043	260P818080	CHIP TRANSISTOR	2SC2412K-R
Q 2P2	260P559030	TRANSISTOR	2SC1740S-S	Q 7050	260P818020	CHIP TRANSISTOR	2SC2412K-R
Q 2001	260P559030	TRANSISTOR	2SC1740S-S	Q 7051	260P818020	CHIP TRANSISTOR	2SC2412K-R
Q 2004	260P559030	TRANSISTOR	2SC1740S-S	Q 7052	260P817020	CHIP TRANSISTOR	2SA1037K-R
Q 2005	260P560040	TRANSISTOR	2SA933S-S	Q 7053	260P817020	CHIP TRANSISTOR	2SA1037K-R
Q 2007	260P559030	TRANSISTOR	2SC1740S-S	Q 7054	260P817030	CHIP TRANSISTOR	2SA1037K
Q 2008	260P559030	TRANSISTOR	2SC1740S-S	Q 7055	260P818080	CHIP TRANSISTOR	2SC2412K-R
Q 303	260P559030	TRANSISTOR	2SC1740S-S	Q 7056	260P817030	CHIP TRANSISTOR	2SA1037K
Q 311	260P560040	TRANSISTOR	2SA933S-S	Q 7057	260P818080	CHIP TRANSISTOR	2SC2412K-R
Q 312	260P559030	TRANSISTOR	2SC1740S-S	Q 7058	260P818080	CHIP TRANSISTOR	2SC2412K-R
Q 313	260P559030	TRANSISTOR	2SC1740S-S	Q 7602	260P559030	TRANSISTOR	2SC1740S-S
Q 318	260P559030	TRANSISTOR	2SC1740S-S	Q 7603	260P559030	TRANSISTOR	2SC1740S-S
Q 3A1	260P356010	TRANSISTOR	2SC1906	Q 7800	260P559030	TRANSISTOR	2SC1740S-S
Q 3301	260P559030	TRANSISTOR	2SC1740S-S	Q 808	260P305010	TRANSISTOR	2SC2901
Q 3302	260P559030	TRANSISTOR	2SC1740S-S	Q 809	260P459020	TRANSISTOR	2SK381-B
Q 3303	260P559030	TRANSISTOR	2SC1740S-S	Q 810	260P459020	TRANSISTOR	2SK381-B
Q 3304	260P559030	TRANSISTOR	2SC1740S-S	Q 811	260P459020	TRANSISTOR	2SK381-B
Q 3305	260P559030	TRANSISTOR	2SC1740S-S	Q 812	260P459020	TRANSISTOR	2SK381-B
Q 4A00	260P559030	TRANSISTOR	2SC1740S-S	Q 830	260P693010	TRANSISTOR	2SC3064-F
Q 4A01	260P559030	TRANSISTOR	2SC1740S-S	Q 838	260P690010	TRANSISTOR	2SA1237-F
Q 4B02	260P574030	TRANSISTOR	2SD1264A-P	Q 8501	260P559030	TRANSISTOR	2SC1740S-S
Q 4B03	260P574030	TRANSISTOR	2SD1264A-P	Q 8521	260P559030	TRANSISTOR	2SC1740S-S
Q 4B04	260P573020	TRANSISTOR	2SB940A-P	Q 8522	260P559030	TRANSISTOR	2SC1740S-S
Q 500	260P422010	TRANSISTOR	2SC2482	Q 8523	260P559030	TRANSISTOR	2SC1740S-S
Q 501	260P572010	TRANSISTOR	2SD1556	Q 8800	260P559030	TRANSISTOR	2SC1740S-S
Q 502	260P559050	TRANSISTOR	2SC1740S-E	Q 950	260P559050	TRANSISTOR	2SC1740S-E
Q 503	260P559050	TRANSISTOR	2SC1740S-E	Q 951	260P559050	TRANSISTOR	2SC1740S-E
Q 504	260P559030	TRANSISTOR	2SC1740S-S	Q 9A0	260P325030	TRANSISTOR	2SC2655-Y
Q 506	260P559030	TRANSISTOR	2SC1740S-S	Q 9A40	260P587020	TRANSISTOR	2SC 2333-M
Q 5A0	260P420020	TRANSISTOR	2SC2073-B, C	Q 9A41	260P422010	TRANSISTOR	2SC2482
Q 5000	260P559030	TRANSISTOR	2SC1740S-S	Q 9A42	260P422010	TRANSISTOR	2SC2482
Q 5001	260P167040	TRANSISTOR	2SA673A-D	Q 9A43	260P422010	TRANSISTOR	2SC2482
Q 6A1	260P385020	TRANSISTOR	2SC2229-Y	DIODES			
Q 6A2	260P385020	TRANSISTOR	2SC2229-Y	D 101	264P502010	DIODE	HZ5ALL
Q 6A3	260P385020	TRANSISTOR	2SC2229-Y	D 102	264P470040	DIODE	EQA02-30C/RD33EB1
Q 6A4	260P571010	TRANSISTOR	2SC3789-D, E	D 201	264P045040	DIODE	1S2471
Q 6A5	260P571010	TRANSISTOR	2SC3789-D, E	D 202	264P045040	DIODE	1S2471
Q 6A6	260P571010	TRANSISTOR	2SC3789-D, E	D 203	264P045040	DIODE	1S2471
Q 701	260P559030	TRANSISTOR	2SC1740S-S	D 204	264P045040	DIODE	1S2471
Q 705	260P559030	TRANSISTOR	2SC1740S-S	D 205	264P045040	DIODE	1S2471
Q 707	260P559030	TRANSISTOR	2SC1740S-S	D 206	264P045040	DIODE	1S2471
Q 711	260P559030	TRANSISTOR	2SC1740S-S	D 208	264P045040	DIODE	1S2471
Q 715	260P559030	TRANSISTOR	2SC1740S-S	D 209	264P045040	DIODE	1S2471
Q 716	260P560040	TRANSISTOR	2SA933S-S	D 210	264P045040	DIODE	1S2471
Q 717	260P559030	TRANSISTOR	2SC1740S-S	D 212	264P045040	DIODE	1S2471
Q 7001	260P817030	CHIP TRANSISTOR	2SA1037K	D 213	264P045040	DIODE	1S2471
Q 7002	260P817030	CHIP TRANSISTOR	2SA1037K	D 216	264P045040	DIODE	1S2471
Q 7003	260P817030	CHIP TRANSISTOR	2SA1037K	D 220	264P484070	DIODE	RD6. 2FB2
Q 7004	260P817030	CHIP TRANSISTOR	2SA1037K	D 222	264P045040	DIODE	1S2471
Q 7005	260P817030	CHIP TRANSISTOR	2SA1037K	D 223	264P045040	DIODE	1S2471
Q 7006	260P817030	CHIP TRANSISTOR	2SA1037K	D 224	264P045040	DIODE	1S2471
Q 7007	260P818080	CHIP TRANSISTOR	2SC2412K-R	D 225	264P045040	DIODE	1S2471
Q 7040	260P818080	CHIP TRANSISTOR	2SC2412K-R	D 226	264P045040	DIODE	1S2471
Q 7041	260P817020	CHIP TRANSISTOR	2SA1037K-R	D 228	264P483080	DIODE	RD5. 1FB2
Q 7042	260P817020	CHIP TRANSISTOR	2SA1037K-R				

[45] : VS - 45VA1

[50] : VS - 50VA1

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
D 229	264P045040	DIODE	1S2471	D 7880	264P189010	LIGHT EMITTING DIODE	TLR124
D 231	264P045040	DIODE	1S2471	D 803	264P045040	DIODE	1S2471
D 232	264P464040	DIODE	EQA02-10B	D 804	264P045040	DIODE	1S2471
D 2001	264P045040	DIODE	1S2471	D 810	264P045040	DIODE	1S2471
D 2002	264P285010	DIODE	S5500D	D 811	264P045040	DIODE	1S2471
D 2003	264P045040	DIODE	1S2471	D 820	264P045040	DIODE	1S2471
D 301	264P285010	DIODE	S5500D	D 821	264P045040	DIODE	1S2471
D 302	264P045040	DIODE	1S2471	D 826	264P483080	DIODE	RD5. 1FB2
D 303	264P045040	DIODE	1S2471	D 827	264P483080	DIODE	RD5. 1FB2
D 304	264P502020	DIODE	HZ5BLL	D 830	264P045040	DIODE	1S2471
D 305	264P501040	DIODE	HZ3ALL	D 831	264P045040	DIODE	1S2471
D 307	264P285010	DIODE	S5500D	D 832	264P045040	DIODE	1S2471
D 309	264P045040	DIODE	1S2471	D 833	264P045040	DIODE	1S2471
D 3301	264P045040	DIODE	1S2471	D 834	264P045040	DIODE	1S2471
D 3302	264P501050	DIODE	HZ3BLL	D 835	264P045040	DIODE	1S2471
D 400	264P464050	DIODE	EQA02-10C	D 836	264P045040	DIODE	1S2471
D 401	264P285010	DIODE	S5500D	D 837	264P045040	DIODE	1S2471
D 4A00	264P045040	DIODE	1S2471	D 8A0	264P045040	DIODE	1S2471
D 4B01	264P045040	DIODE	1S2471	D 8A1	264P045040	DIODE	1S2471
D 4B02	264P483080	DIODE	RD5. 1FB2	D 880	264P045040	DIODE	1S2471
D 4B03	264P483080	DIODE	RD5. 1FB2	D 881	264P045040	DIODE	1S2471
D 4B04	264P045040	DIODE	1S2471	D 8501	264P045040	DIODE	1S2471
D 500	264P533010	DIODE	RS 4FS	D 8502	264P045040	DIODE	1S2471
D 501	264P358070	DIODE	RU 4AM	D 900	264P535010	DIODE	RBV-608
D 502	264P146010	DIODE	RC 2	D 920	264P512020	DIODE	RBV-40C
D 503	264P045040	DIODE	1S2471	D 921	264P512020	DIODE	RBV-40C
D 504	264P045040	DIODE	1S2471	D 951	264P487080	DIODE	RD12FB2
D 505	264P102020	DIODE	RU 3B	D 952	264P487080	DIODE	RD12FB2
D 506	264P045040	DIODE	1S2471	D 953	264P045040	DIODE	1S2471
D 507	264P244030	DIODE	HZT22-02	D 954	264P045040	DIODE	1S2471
D 508	264P045040	DIODE	1S2471	D 960	264P358090	DIODE	RU 4YX
D 509	264P457050	DIODE	RD3. 0EB1	D 962	264P102020	DIODE	RU 3B
D 510	264P045040	DIODE	1S2471	D 963	264P102020	DIODE	RU 3B
D 511	264P045040	DIODE	1S2471	D 964	264P102020	DIODE	RU 3B
D 512	264P101050	DIODE	RM 1B	D 9A01	264P578010	DIODE	RG 2A
D 515	264P045040	DIODE	1S2471	D 9A02	264P588010	DIODE	FML-G16S
D 518	264P489010	DIODE	RD16FB1	D 9A03	264P358090	DIODE	RU 4YX
D 5A1	264P045040	DIODE	1S2471	D 9A04	264P102040	DIODE	RU 3M
D 5000	264P285010	DIODE	S5500D	D 9A05	264P102040	DIODE	RU 3M
D 6A5	264P501020	DIODE	HZ2BLL	D 9A06	264P358090	DIODE	RU 4YX
D 6A6	264P045040	DIODE	1S2471	D 9A10	264P521040	DIODE	EU 1A
D 6A7	264P045040	DIODE	1S2471	D 9A11	264P622010	DIODE	AL01Z
D 701	264P045040	DIODE	1S2471	D 9A13	264P622010	DIODE	AL01Z
D 704	264P045040	DIODE	1S2471	D 9A42	264P102020	DIODE	RU 3B
D 705	264P045040	DIODE	1S2471	FILTERS			
D 706	264P486020	DIODE	RD8. 2FB3	CF101	296P024020	CERAMIC TRAP	TPS4. 5MB7
D 711	264P045040	DIODE	1S2471	CF201	299P051050	CERAMIC RESONATOR	CSB500F9
D 712	264P045040	DIODE	1S2471	CF301	296P067010	CERAMIC FILTER	SFS4. 5MB2
D 713	264P045040	DIODE	1S2471	DL205	296P113010	COMB FILTER	
D 714	264P502020	DIODE	HZ5BLL	LC7101	409P771010	LOW PASS FILTER	A285TCIS-13505
D 715	264P502020	DIODE	HZ5BLL	SF101	296P096020	SAW FILTER	SAF45MVK56Z
D 7001	264P821010	CHIP DIODE	HSM2836	SF301	296P092010	SAW FILTER	SAF41MC70Z
D 7601	264P463040	DIODE	EQA02-09AB/RD9. 1EB1	X 701	296P064010	CERAMIC RESONATOR	CSA-4. 00MG
D 7602	264P463040	DIODE	EQA02-09AB/RD9. 1EB1				
D 7603	264P463040	DIODE	EQA02-09AB/RD9. 1EB1				

[45] : VS - 45VA1

[50] : VS - 50VA1

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
DELAY LINES				L 6A4	325C161060	PEAKING COIL	18 μ H-K
DL200	337P147020	DELAY LINE		L 6A5	325C161060	PEAKING COIL	18 μ H-K
DL201	337P147010	DELAY LINE		L 701	325C121030	PEAKING COIL	10 μ H-K
DL202	337P113020	DELAY LINE	100NS	L 702	325C121030	PEAKING COIL	10 μ H-K
DL203	337P134010	DELAY LINE	SDL-4256	L 703	325C121060	PEAKING COIL	18 μ H-K
COILS				L 704	325C121030	PEAKING COIL	10 μ H-K
	330P164010	DEFLECTION YOKE COIL	RED/BLUE-CRT	L 707	325C121030	PEAKING COIL	10 μ H-K
	330P164020	DEFLECTION YOKE COIL	GREEN-CRT	L 708	321C010040	RF COIL	1000 μ H-J
L 101	325C124030	PEAKING COIL	0.22 μ H-M	L 710	325C121030	PEAKING COIL	10 μ H-K
L 102	325C124090	PEAKING COIL	0.68 μ H-M	L 711	325C121030	PEAKING COIL	10 μ H-K
L 103	325C120010	PEAKING COIL	1.0 μ H-M	L 712	325C121030	PEAKING COIL	10 μ H-K
L 104	325C121030	PEAKING COIL	10 μ H-K	L 7000	321C031040	RF COIL	10 μ H-K
L 105	325C122030	PEAKING COIL	68 μ H-K	L 7001	325C107050	PEAKING COIL	100 μ H-J
L 106	323P171010	VIF COIL	45.75MHz	L 7002	325C141030	CHIP COIL	10 μ H-K
L 107	323P111020	VIF COIL	45MHz	L 7003	325C141030	CHIP COIL	10 μ H-K
L 108	325C122030	PEAKING COIL	68 μ H-K	L 7004	325C141030	CHIP COIL	10 μ H-K
L 109	325C120020	PEAKING COIL	1.2 μ H-M	L 7005	321C031040	RF COIL	10 μ H-K
L 111	325C121030	PEAKING COIL	10 μ H-K	L 7101	325C141030	CHIP COIL	10 μ H-K
L 117	325C121030	PEAKING COIL	10 μ H-K	L 7102	325C141030	CHIP COIL	10 μ H-K
L 201	325C121030	PEAKING COIL	10 μ H-K	L 7103	325C141030	CHIP COIL	10 μ H-K
L 202	325C101030	PEAKING COIL	10 μ H-K	L 7601	325C121030	PEAKING COIL	10 μ H-K
L 203	325C121090	PEAKING COIL	33 μ H-K	L 7602	325C121030	PEAKING COIL	10 μ H-K
L 204	325C121030	PEAKING COIL	10 μ H-K	L 7603	325C121030	PEAKING COIL	10 μ H-K
L 205	325C121030	PEAKING COIL	10 μ H-K	L 77A1	325C121030	PEAKING COIL	10 μ H-K
L 207	325C121000	PEAKING COIL	5.6 μ H-K	L 7800	325C121030	PEAKING COIL	10 μ H-K
L 212	325C121030	PEAKING COIL	10 μ H-K	L 801	321C031040	RF COIL	10 μ H-K
L 213	325C161000	PEAKING COIL	5.6 μ H-K	L 805	321C031040	RF COIL	10 μ H-K
L 220	325C122040	PEAKING COIL	82 μ H-K	L 807	351P068030	PEAKING COIL	SBC-03
L 2N0	325C162090	PEAKING COIL	220 μ H-K	L 808	351P068030	PEAKING COIL	SBC-03
L 2N1	325C162090	PEAKING COIL	220 μ H-K	L 809	351P068030	PEAKING COIL	SBC-03
L 2002	325C121030	PEAKING COIL	10 μ H-K	L 810	351P068030	PEAKING COIL	SBC-03
L 2003	325C121030	PEAKING COIL	10 μ H-K	L 811	321C031040	RF COIL	10 μ H-K
L 2004	325C163070	PEAKING COIL	1000 μ H-K	L 812	321C031040	RF COIL	10 μ H-K
L 2006	325C121030	PEAKING COIL	10 μ H-K	L 814	321C031090	RF COIL	33 μ H-K
L 2007	325C121030	PEAKING COIL	10 μ H-K	L 815	321C031090	RF COIL	33 μ H-K
L 2009	321C031040	RF COIL	10 μ H-K	L 900	351P064030	LINE FILTER	SE26TL-40(30A)
L 303	327P072010	SIF COIL	TKACS-27071BY	L 9A01	411D009020	FERRITE CORE FILTER	
L 3A1	325C122030	PEAKING COIL	68 μ H-K	L 9A02	411P001010	FERRITE LEAD	
L 3301	325C121030	PEAKING COIL	10 μ H-K	L 9A03	351P070010	FILTER COIL	560 μ H-K
L 3A01	325C121030	PEAKING COIL	10 μ H-K	L 9A10	411P001010	FERRITE LEAD	
L 4A1	321C031090	RF COIL	33 μ H-K	L 9A12	411P001010	FERRITE LEAD	
L 4A2	321C031090	RF COIL	33 μ H-K	LC7102	409P736010	COIL	CLOCK-ADJ 11614
L 4B10	351P068010	PEAKING COIL	SB4-680-122	LF7000	409P696020	EMI FILTER	BLM41A01
L 500	321C030070	RF COIL	3.3 μ H-K	LF7001	409P402030	EMI FILTER	DSS306-55:Z103N100
L 501	411P001010	FERRITE LEAD		LF7002	409P402020	EMI FILTER	DSS306-55:1 02M100
L 502	411P001010	FERRITE LEAD		LF7003	409P402020	EMI FILTER	DSS306-55:1 02M100
L 503	333P025040	H-LIN. COIL		T 101	320P026030	TRAP COIL	
L 505	409P565020	FILTER COIL		TRANSFORMERS			
L 506	409P691010	FILTER COIL			350P581010	POWER	
L 6A0	325C107020	PEAKING COIL	56 μ H-J	T 201	349P159020	CHROMA-BP	
L 6A1	325C107020	PEAKING COIL	56 μ H-J	T 4800	349P192010	PCC	TOP-BOTTOM
L 6A2	325C107020	PEAKING COIL	56 μ H-J	T 500	336P009030	H. DRIVE	
L 6A3	325C161060	PEAKING COIL	18 μ H-K	T 501	334P191010	FLYBACK	
				T 5000	349P122080	PCC	

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
T 9A0	350P580010	POWER		VR8C4	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
		VARIABLE RESISTORS		VR8C5	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
VR102	127C080040	VR-SEMIFIXED	1/5W B1KΩ-M	VR8C6	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
VR1A1	127C080060	VR-SEMIFIXED	1/5W B3KΩ-M	VR8C7	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
VR204	127C080070	VR-SEMIFIXED	1/5W B5KΩ-M	VR8C8	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
VR205	127C080040	VR-SEMIFIXED	1/5W B1KΩ-M	VR8C9	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
VR3001	127C080070	VR-SEMIFIXED	1/5W B5KΩ-M	VR8D0	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
				VR8D1	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
VR3002	127C080090	VR-SEMIFIXED	1/5W B20KΩ-M	VR8E0	127C091010	VR-SEMIFIXED	1/5W B50KΩ-M
VR3003	127C080070	VR-SEMIFIXED	1/5W B5KΩ-M	VR8E1	127C091010	VR-SEMIFIXED	1/5W B50KΩ-M
VR3004	127C080070	VR-SEMIFIXED	1/5W B5KΩ-M	VR8E2	127C091010	VR-SEMIFIXED	1/5W B50KΩ-M
VR3005	127C081010	VR-SEMIFIXED	1/5W B50KΩ-M	VR8E3	127C091010	VR-SEMIFIXED	1/5W B50KΩ-M
VR400	127C090080	VR-SEMIFIXED	1/5W B10KΩ-M	VR8501	127C090080	VR-SEMIFIXED	1/5W B10KΩ-M
VR401	127C090090	VR-SEMIFIXED	1/5W B20KΩ-M	VR8800	120C330090	VR-PCB	1/20W B5KΩ-20N
VR4A00	127C190080	VR-SEMIFIXED	1/5W B10KΩ-M	VR8801	120C330090	VR-PCB	1/20W B5KΩ-20N
VR4A01	127C190080	VR-SEMIFIXED	1/5W B10KΩ-M	VR8802	120C330090	VR-PCB	1/20W B5KΩ-20N
VR4A02	127C190080	VR-SEMIFIXED	1/5W B10KΩ-M			RESISTORS	
VR5A0	127C280030	VR-SEMIFIXED	1/10W B500Ω-N	R 2F1	103P532070	NETWORK	1/8W 1.5KΩ-JX3
VR5A2	127C280060	VR-SEMIFIXED	1/10W B3KΩ-N	R 2Z9	103P553010	NETWORK	1/8W 3.3KΩ-JX5
VR5A3	127C280060	VR-SEMIFIXED	1/10W B3KΩ-N	R 311	103P378040	FUSE	1/4W 2.2Ω-J
VR5000	127C280040	VR-SEMIFIXED	1/10W B1KΩ-N	R 312	103P378040	FUSE	1/4W 2.2Ω-J
VR6A0	127C080010	VR-SEMIFIXED	1/5W B200Ω-M	R 4B52	103P397090	FUSE	1/2W 0.82Ω-J
VR6A1	127C080010	VR-SEMIFIXED	1/5W B200Ω-M	R 4B53	103P397090	FUSE	1/2W 0.82Ω-J
VR6A2	127C091040	VR-SEMIFIXED	1/5W B300KΩ-M	R 503	109D074030	CEMENT METAL	5W 3.9KΩ-K/J
VR6A3	127C091040	VR-SEMIFIXED	1/5W B300KΩ-M	R 508	103P438050	FUSE METAL	2W 2.7Ω-K/J
VR6A4	127C091040	VR-SEMIFIXED	1/5W B300KΩ-M	R 509	103P391030	FUSE	1/2W 100Ω-J
VR6A5	129D074010	VR-SEMIFIXED	0.6W-B4M-8S-M	R 510	103P398010	FUSE	1/2W 1.2Ω-J
VR6A6	129D074010	VR-SEMIFIXED	0.6W-B4M-8S-M	R 5008	103P398000	FUSE	1/2W 1.0Ω-J
VR6A7	129D074010	VR-SEMIFIXED	0.6W-B4M-8S-M	R 754	103P603070	NETWORK	1/8W 10KΩ-JX10
VR7001	127C090030	VR-SEMIFIXED	1/5W B500Ω-M	R 7C0	103P532050	NETWORK	1/8W 1KΩ-JX3
VR7002	127C090030	VR-SEMIFIXED	1/5W B500Ω-M	R 7001	103P402090	CHIP RESISTOR	1/10W 2.2KΩ-J
VR8A0	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7002	103P401050	CHIP RESISTOR	1/10W 150Ω-J
VR8A1	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7003	103P402090	CHIP RESISTOR	1/10W 2.2KΩ-J
VR8A2	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7004	103P401050	CHIP RESISTOR	1/10W 150Ω-J
VR8A3	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7007	103P402050	CHIP RESISTOR	1/10W 1KΩ-J
VR8A4	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7008	103P473060	CHIP RESISTOR	1/10W 3KΩ-F
VR8A5	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7009	103P402090	CHIP RESISTOR	1/10W 2.2KΩ-J
VR8A6	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7010	103P402060	CHIP RESISTOR	1/10W 1.2KΩ-J
VR8A7	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7011	103P402070	CHIP RESISTOR	1/10W 1.5KΩ-J
VR8A8	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7012	103P403020	CHIP RESISTOR	1/10W 3.9KΩ-J
VR8A9	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7013	103P402090	CHIP RESISTOR	1/10W 2.2KΩ-J
VR8B0	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7014	103P402060	CHIP RESISTOR	1/10W 1.2KΩ-J
VR8B1	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7015	103P402070	CHIP RESISTOR	1/10W 1.5KΩ-J
VR8B2	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7016	103P473000	CHIP RESISTOR	1/10W 1.6KΩ-F
VR8B3	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7019	103P403050	CHIP RESISTOR	1/10W 6.8KΩ-J
VR8B4	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7020	103P403090	CHIP RESISTOR	1/10W 15KΩ-J
VR8B5	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7021	103P403090	CHIP RESISTOR	1/10W 15KΩ-J
VR8B6	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M	R 7022	103P403050	CHIP RESISTOR	1/10W 6.8KΩ-J
VR8B7	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M	R 7023	103P402090	CHIP RESISTOR	1/10W 2.2KΩ-J
VR8B8	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M	R 7024	103P401050	CHIP RESISTOR	1/10W 150Ω-J
VR8B9	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M	R 7024	103P402020	CHIP RESISTOR	1/10W 560Ω-J
VR8C0	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M	R 7025	103P404020	CHIP RESISTOR	1/10W 27KΩ-J
VR8C1	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M	R 7026	103P404020	CHIP RESISTOR	1/10W 27KΩ-J
VR8C2	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M	R 7027	103P401050	CHIP RESISTOR	1/10W 150Ω-J
VR8C3	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M				

[45]
[50]

[45] : VS - 45VA1

[50] : VS - 50VA1

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION		SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	
R 7028	103P402090	CHIP RESISTOR	1/10W 2.2K Ω -J		R 7126	103P409050	CHIP RESISTOR	1/10W 0 Ω	
R 7029	103P405070	CHIP RESISTOR	1/10W 470K Ω -J		R 7127	103P409050	CHIP RESISTOR	1/10W 0 Ω	
R 7031	103P409050	CHIP RESISTOR	1/10W 0 Ω		R 7128	103P409050	CHIP RESISTOR	1/10W 0 Ω	
R 7032	103P409050	CHIP RESISTOR	1/10W 0 Ω	[45]	R 7129	103P409050	CHIP RESISTOR	1/10W 0 Ω	
R 7033	103P409050	CHIP RESISTOR	1/10W 0 Ω	[45]	R 7130	103P409050	CHIP RESISTOR	1/10W 0 Ω	
R 7034	103P409050	CHIP RESISTOR	1/10W 0 Ω		R 7131	103P409050	CHIP RESISTOR	1/10W 0 Ω	
R 7041	103P473090	CHIP RESISTOR	1/10W 3.9K Ω -F		R 7150	103P479000	CHIP METAL	1/10W 510K Ω -F	
R 7042	103P473090	CHIP RESISTOR	1/10W 3.9K Ω -F		R 901	109D071020	CEMENT WIRE	15W 2.2 Ω -K	
R 7043	103P402050	CHIP RESISTOR	1/10W 1K Ω -J		R 9A15	102P106080	WIRE	2W 0.1 Ω -J	
R 7044	103P402050	CHIP RESISTOR	1/10W 1K Ω -J		R 9A16	102P106080	WIRE	2W 0.1 Ω -J	
R 7045	103P402050	CHIP RESISTOR	1/10W 1K Ω -J		CAPACITORS AND TRIMMERS				
R 7046	103P474090	CHIP RESISTOR	1/10W 10K Ω -F		C 408	189P071050	C-M-PLASTIC-PP	200V 0.33 μ F-J	
R 7047	103P473030	CHIP RESISTOR	1/10W 2.2K Ω -F		C 4B30	189P071090	C-M-PLASTIC-PP	200V 0.27 μ F-J	
R 7048	103P402050	CHIP RESISTOR	1/10W 1K Ω -J		C 510	189P071010	C-M-PLASTIC-PP	200V 0.56 μ F-J	
R 7049	103P403030	CHIP RESISTOR	1/10W 4.7K Ω -J		C 511	189P071070	C-M-PLASTIC-PP	200V 0.39 μ F-J	
R 7050	103P402020	CHIP RESISTOR	1/10W 560 Ω -J	[50]	C 512	189P071080	C-M-PLASTIC-PP	200V 0.47 μ F-J	
R 7060	103P475040	CHIP RESISTOR	1/10W 16K Ω -F		C 513	189P071010	C-M-PLASTIC-PP	200V 0.56 μ F-J	
R 7061	103P475040	CHIP RESISTOR	1/10W 16K Ω -F		C 515	189P072020	C-M-POLYESTER	1600V 0.1 μ F-K	
R 7062	103P402050	CHIP RESISTOR	1/10W 1K Ω -J		C 520	189P071040	C-M-PLASTIC-PP	200V 0.12 μ F-J	
R 7063	103P475090	CHIP RESISTOR	1/10W 27K Ω -F		C 532	189P071050	C-M-PLASTIC-PP	200V 0.33 μ F-J	
R 7064	103P475040	CHIP RESISTOR	1/10W 16K Ω -F		C 716	149D811030	CR-MULTIPLE	50V 10000PFX4	
R 7065	103P402050	CHIP RESISTOR	1/10W 1K Ω -J		C 731	202P109040	TRIMMER CAPACITOR	7.3pF-45pF	
R 7066	103P475040	CHIP RESISTOR	1/10W 16K Ω -F		C 7001	181P504090	CHIP CAPACITOR	35V 4.7 μ F-M	
R 7067	103P475040	CHIP RESISTOR	1/10W 16K Ω -F		C 7002	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z	
R 7068	103P471060	CHIP RESISTOR	1/10W 430 Ω -F		C 7003	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z	
R 7070	103P402050	CHIP RESISTOR	1/10W 1K Ω -J		C 7004	141P133090	CHIP CAPACITOR	F50V 0.022 μ F-Z	
R 7071	103P402050	CHIP RESISTOR	1/10W 1K Ω -J		C 7006	141P133090	CHIP CAPACITOR	F50V0.022 μ F-Z	
R 7072	103P402010	CHIP RESISTOR	1/10W 470 Ω -J		C 7007	181P522030	CHIP ELECTROLYTIC-C	16V 10 μ F-M	
R 7073	103P402050	CHIP RESISTOR	1/10W 1K Ω -J		C 7008	154P323000	CHIP CAPACITOR	SL50V 56pF-J	[45]
R 7074	103P402050	CHIP RESISTOR	1/10W 1K Ω -J		C 7009	154P324000	CHIP CAPACITOR	SL50V 150pF-J	
R 7075	103P402010	CHIP RESISTOR	1/10W 470 Ω -J		C 7010	141P137060	CHIP CAPACITOR	B50V 0.033 μ F-K	
R 7080	103P472060	CHIP RESISTOR	1/10W 1.1K Ω -F		C 7011	181P506020	CHIP CAPACITOR	50V 2.2 μ F-M	
R 7081	103P401030	CHIP RESISTOR	1/10W 100 Ω -J		C 7012	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z	
R 7082	103P474030	CHIP RESISTOR	1/10W 5.6K Ω -F		C 7014	181P522060	CHIP ELECTROLYTIC-C	16V 47 μ F-M	
R 7083	103P472000	CHIP RESISTOR	1/10W 620 Ω -F		C 7015	181P506010	CHIP CAPACITOR	04W 50V 1 μ F-M	[45]
R 7084	103P409050	CHIP RESISTOR	1/10W 0 Ω		C 7015	181P500010	CHIP CAPACITOR	6.3V 22 μ F-M	[50]
R 7085	103P476010	CHIP RESISTOR	1/10W 33K Ω -F		C 7016	181P526010	CHIP CAPACITOR	50V 1 μ F-M	[50]
R 7086	103P476060	CHIP METAL	1/10W 51K Ω -F		C 7017	141P133090	CHIP CAPACITOR	F50V 0.022 μ F-Z	
R 7087	103P401070	CHIP RESISTOR	1/10W 220 Ω -J		C 7018	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z	
R 7088	103P401070	CHIP RESISTOR	1/10W 220 Ω -J		C 7020	181P526020	CHIP ELECTROLYTIC-C	04W 50V 2.2 μ F-M	[50]
R 7100	103P409050	CHIP RESISTOR	1/10W 0 Ω		C 7021	181P522030	CHIP ELECTROLYTIC-C	16V 10 μ F-M	
R 7101	103P406010	CHIP RESISTOR	1/10W 1M Ω -J	[45]	C 7022	141P133090	CHIP CAPACITOR	F50V 0.022 μ F-Z	
R 7102	103P403070	CHIP RESISTOR	1/10W 10K Ω -J		C 7023	181P502030	CHIP CAPACITOR	16V 10 μ F-M	
R 7103	103P402070	CHIP RESISTOR	1/10W 1.5K Ω -J		C 7024	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z	
R 7104	103P402070	CHIP RESISTOR	1/10W 1.5K Ω -J		C 7025	154P322000	CHIP CAPACITOR	SL50V 22pF-J	
R 7105	103P403050	CHIP RESISTOR	1/10W 6.8K Ω -J		C 7026	181P504090	CHIP CAPACITOR	35V 4.7 μ F-M	
R 7106	103P403020	CHIP RESISTOR	1/10W 3.9K Ω -J		C 7027	181P506020	CHIP CAPACITOR	50V 2.2 μ F-M	
R 7107	103P402020	CHIP RESISTOR	1/10W 560 Ω -J		C 7028	181P506000	CHIP CAPACITOR	50V 0.47 μ F-M	
R 7108	103P403020	CHIP RESISTOR	1/10W 3.9K Ω -J		C 7029	181P506000	CHIP CAPACITOR	50V 0.47 μ F-M	
R 7109	103P402020	CHIP RESISTOR	1/10W 560 Ω -J		C 7030	141P131010	CHIP CAPACITOR	B50V 1500pF-K	
R 7111	103P406010	CHIP RESISTOR	1/10W 1M Ω -J		C 7031	181P528030	CHIP ELECTROLYTIC-C		[50]
R 7112	103P406010	CHIP RESISTOR	1/10W 1M Ω -J		C 7032	181P520040	CHIP ELECTROLYTIC-C	6.3V 100 μ F-M	
R 7123	103P409050	CHIP RESISTOR	1/10W 0 Ω		C 7033	141P133090	CHIP CAPACITOR	F50V 0.022 μ F-Z	
R 7124	103P409050	CHIP RESISTOR	1/10W 0 Ω		C 7034	181P528030	CHIP ELECTROLYTIC-C		[50]
R 7125	103P409050	CHIP RESISTOR	1/10W 0 Ω						

[45] : VS - 45VA1

[50] : VS - 50VA1

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 7035	141P130090	CHIP CAPACITOR	B50V 1000pF-K	S 7802	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7036	181P524090	CHIP CAPACITOR	35V 4.7 μF-M	S 7803	432P100010	KEY BOARD SWITCH	1-1 H=4.3
			[50]	S 7804	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7037	141P133090	CHIP CAPACITOR	F50V 0.022 μF-Z	S 7805	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7038	181P500010	CHIP CAPACITOR	6.3V 22 μF-M	S 7806	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7039	154P322020	CHIP CAPACITOR	SL50V 27pF-J	S 7807	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7041	141P133080	CHIP CAPACITOR	F50V 0.01 μF-Z	S 7808	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7042	141P133080	CHIP CAPACITOR	F50V 0.01 μF-Z	S 7809	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7045	154P333030	CHIP CAPACITOR	CH50V 82pF-J				
C 7046	154P332090	CHIP CAPACITOR	CH50V 56pF-J	S 7810	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7047	141P133080	CHIP CAPACITOR	F50V 0.01 μF-Z	S 7811	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7050	141P133080	CHIP CAPACITOR	F50V 0.01 μF-Z	S 7812	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7051	141P133080	CHIP CAPACITOR	F50V 0.01 μF-Z	S 7813	432P100010	KEY BOARD SWITCH	1-1 H=4.3
			[45]	S 7814	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7052	181P506010	CHIP CAPACITOR	04W 50V 1 μF-M	S 7815	432P100030	KEY BOARD SWITCH	1-1 H=7
C 7053	141P133080	CHIP CAPACITOR	F50V 0.01 μF-Z				
C 7054	154P324080	CHIP CAPACITOR	SL50V 330pF-J			MISCELLANEOUS	
C 7055	154P324080	CHIP CAPACITOR	SL50V 330pF-J			462P004020	A-MAGNET ASSY
C 7060	141P133090	CHIP CAPACITOR	F50V 0.022 μF-Z			462P035010	MAGNET ASSY
						462P035020	MAGNET ASSY
C 7101	141P139030	CHIP CAPACITOR	B25V 0.1 μF-K			453B011040	ANODE CAP
C 7102	154P323060	CHIP CAPACITOR	SL50V 100pF-J			767D038020	MIRROR
C 7103	181P502030	CHIP CAPACITOR	16V 10 μF-M				[45]
C 7104	141P139030	CHIP CAPACITOR	B25V 0.1 μF-K				
C 7105	141P139030	CHIP CAPACITOR	B25V 0.1 μF-K				
							[50]
C 7106	141P139030	CHIP CAPACITOR	B25V 0.1 μF-K			767D028070	MIRROR
C 7107	141P139030	CHIP CAPACITOR	B25V 0.1 μF-K			449C026020	CRT SOCKET
C 7108	181P500010	CHIP CAPACITOR	6.3V 22 μF-M	AG6A0	224D019090	AIR GAP	1.5KV
C 7109	181P500010	CHIP CAPACITOR	6.3V 22 μF-M	AG6A1	224D019090	AIR GAP	1.5KV
C 7110	141P139030	CHIP CAPACITOR	B25V 0.1 μF-K	AG6A2	224D019090	AIR GAP	1.5KV
				AG6A3	224D019090	AIR GAP	1.5KV
C 7111	141P139030	CHIP CAPACITOR	B25V 0.1 μF-K	AG6A4	224D019090	AIR GAP	1.5KV
C 7112	141P137040	CHIP CAPACITOR	B25V 0.022 μF-K	AG6A5	224D019090	AIR GAP	1.5KV
C 7113	141P137040	CHIP CAPACITOR	B25V 0.022 μF-K	AG6A6	224D019040	AIR GAP	2KV
C 7114	141P139030	CHIP CAPACITOR	B25V 0.1 μF-K	AG6A7	224D019040	AIR GAP	2KV
C 7115	141P133090	CHIP CAPACITOR	F50V 0.022 μF-Z	AG6A8	224D019040	AIR GAP	2KV
C 7116	141P133090	CHIP CAPACITOR	F50V 0.022 μF-Z	F 900	283D060020	FUSE	S5A
C 7117	141P139030	CHIP CAPACITOR	B25V 0.1 μF-K	F 901	283D038070	FUSE	S4A
C 7118	141P133080	CHIP CAPACITOR	F50V 0.01 μF-Z	F 920	283D038060	FUSE	S2A
C 7119	141P139030	CHIP CAPACITOR	B25V 0.1 μF-K	F 9A0	283D038070	FUSE	S4A
C 7120	181P504090	CHIP CAPACITOR	35V 4.7 μF-M	K 3Z1	287P073010	POWER RELAY	VB-12TKU-526-UL3
C 7121	141P139030	CHIP CAPACITOR	B25V 0.1 μF-K	K 3Z2	287P060010	POWER RELAY	DH12D2-OS(M)
C 7122	181P500010	CHIP CAPACITOR	6.3V 22 μF-M	K 900	287P049020	POWER RELAY	DG12D1-0(M)-L
C 7123	181P506010	CHIP CAPACITOR	04W 50V 1 μF-M	K 901	287P049020	POWER RELAY	DG12D1-0(M)-L
C 7124	181P500010	CHIP CAPACITOR	6.3V 22 μF-M	PC9A0	268P033010	PHOTO COUPLER	ON3161-R
C 7126	141P139030	CHIP CAPACITOR	B25V 0.1 μF-K				
							[45]
C 7127	141P139030	CHIP CAPACITOR	B25V 0.1 μF-K	PJ3A01	440B095010	TERMINAL JACK	
C 7128	141P139030	CHIP CAPACITOR	B25V 0.1 μF-K	PJ3A01	440B095030	TERMINAL BOARD	PINX13+DIN
C 7129	181P520040	CHIP ELECTROLYTIC-C	6.3V 100 μF-M	PJ3A02	440C189010	SPEAKER TERMINAL	(+)X2&(-)X2
C 909	185D063080	ELECTROLYTIC-C	H200V 820 μF-M 105C	PJ79A0	440C181010	JACK BOARD	PINX3 & DINX1
C 923	185D057020	ELECTROLYTIC-C	H50V 6800 μF-M	RT500	265P090050	THERMISTOR	NTH5D102KA
C 927	185D054060	ELECTROLYTIC-C	H35V 4700 μF-M	RT501	265P090050	THERMISTOR	NTH5D102KA
C 9A08	185D063020	ELECTROLYTIC-C	H180V 470 μF-M 105C	RT502	265P090050	THERMISTOR	NTH5D102KA
C 9A20	185D063030	ELECTROLYTIC-C	H180V 820 μF-M 105C	RT500	265P090050	THERMISTOR	NTH5D102KA
VC731	202P109040	TRIMMER CAPACITOR	7.3pF-45pF	RV900	265P086010	VARIATOR	SNR-271KD10
				SP391	480P655010	SPEAKER	181P05M6910
				SP392	480P233010	SPEAKER	E040PX474M69
				SP393	480P655010	SPEAKER	181P05M6910
S 7800	432P100010	KEY BOARD SWITCH	1-1 H=4.3	SP394	480P233010	SPEAKER	E040PX474M69
S 7801	432P100010	KEY BOARD SWITCH	1-1 H=4.3	*TU101	295P266030	TUNER	ENV568D5G3

[45] : VS - 45VA1

[50] : VS - 50VA1

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
X 201	285P029050	CRYSTAL RESONATOR	3. 5795MHz		700C146090	BACK COVER	[50]
X 202	285P015010	CRYSTAL RESONATOR	3. 57955MHz		702A355020	TERMINAL BOARD	[45]
X 7001	285P066010	CRYSTAL RESONATOR	3. 5795MHz		702A355010	TERMINAL BOARD	[50]
Z 7706	939P296090	PREAMP UNIT	HC-437M		589D042030	CASTER	
Z 9A01	283P030090	FUSE	SSFR 4A		540C015010	LEAD CLAMPER	
Z 9A02	283P030090	FUSE	SSFR 4A		641D173010	CLIP	AC-POWER-CORDE
		PRINTED CIRCUIT BOARD ASSY'S			761C273010	DOOR CATCH	
*	935D156001	CONTROL PCB ASSY			702B712030	CONTROL DOOR ASSY	[45]
*	935C438002	CONV PCB ASSY	[45]		702B737010	CONTROL DOOR ASSY	[50]
*	935C438001	CONV PCB ASSY	[50]		771D090010	FOOT	(S)
*	935C440001	CRT PCB ASSY		*	491P004050	FRESNEL LENS	[45]
*	935D157001	DISPLAY PCB ASSY		*	491P009020	FRESNEL LENS	[50]
*	935D154001	FRONT PCB ASSY			761A093010	SPEAKER GRILLE	[45]
*	935D153001	FS PCB ASSY			761A092010	SPEAKER GRILLE	[50]
*	935C437002	MAIN PCB ASSY	[45]		734D417020	PUSH KNOB	
*	935C437001	MAIN PCB ASSY	[50]	*	491P006090	LENTICULAR SCREEN	[45]
*	935C442002	PCC PCB ASSY	[45]	*	491P010080	LENTICULAR SCREEN	[50]
*	935C442001	PCC PCB ASSY	[50]		440C176080	TERMINAL BOARD	ANTENNA
*	930B552001	PIP PCB ASSY			PACKING PARTS AND ACCESSORY		
*	935C439001	POWER SUB PCB ASSY		1	802B392010	PACKING CASE	SLEEVE [45]
*	935D155001	PREAMP PCB ASSY		1	802B390010	PACKING CASE	SLEEVE [50]
*	935D162002	SIDE PCC PCB ASSY	[45]	2	803B692010	CUSHION TOP	
*	935D162001	SIDE PCC PCB ASSY	[50]	3	802B392030	PACKING CASE	REAR-CORNER [45]
*	935C441002	SIGNAL PCB ASSY	[45]	3	802B390030	PACKING CASE	REAR-CORNER [50]
*	935C441001	SIGNAL PCB ASSY	[50]	4	802B392020	PACKING CASE	BOTTOM [45]
*	935D152002	TERMINAL PCB ASSY	[45]	4	802B390020	PACKING CASE	BOTTOM [50]
*	935D152001	TERMINAL PCB ASSY	[50]	5	831C060040	PACKING BAG	1900X2200X2. 0
		MECHANICAL PARTS		6	829C045020	PACKING SHEET	
	669D171080	SCREW	MAX25 0.7	7	829D126090	PACKING SHEET	2600X600X. 5
	669D204060	SCREW	MAX16 [45]	8	802B390040	PACKING CASE	FRONT-CORNER [50]
	669D130050	SCREW	4X20 BLACK		871D174030	INSTRUCTION BOOK	
	669D220030	SCREW	3X10 46LA005		871D174020	INSTRUCTION BOOK	[45]
	669D220040	SCREW	3X12 46LA005	*	939P434030	REMOTE HAND UNIT	
	669D220060	SCREW	3X16 46LA005		OTHER CRITICAL COMPONENTS		
	669D221040	SCREW	4X12 46LA005	C 506	172P170090	C-M-PLASTIC-PP	1600V 4700pF-J
	669D221080	SCREW	4X25 46LA005	C 507	172P171000	C-M-PLASTIC-PP	1600V 5600pF-J
	669D220020	SCREW	3X8 46LA005 [50]	C 508	172P085060	C-PLASTIC-PP	400V 0. 033 μ F-J
	669D212010	SCREW	3X12	C 509	189P177020	C-M-PLASTIC-PP	400V 0. 015 μ F-J
	669D222040	SCREW	3X12	C 900	189P033050	C-M-MF/PP-AC	AC125V/250V 0. 1 μ F-M
	683D010050	WASHER	104512	C 901	189P136080	C-CERAMIC-AC	B VA1 2200pF-M
		COSMETIC PARTS		C 902	189P136080	C-CERAMIC-AC	B VA1 2200pF-M
	246C160010	AC POWER CORD		C 903	189P033040	C-M-MF/PP-AC	AC125V/250V 0. 047 μ F-M
	975C125008	BAFFLE BOARD ASSY	[45]	C 904	189P136080	C-CERAMIC-AC	B VA1 2200pF-M
	975C125009	BAFFLE BOARD ASSY	[50]	C 905	189P136080	C-CERAMIC-AC	B VA1 2200pF-M
	975D045010	CABINET ASSY	[45]	C 906	189P136080	C-CERAMIC-AC	B VA1 2200pF-M
	975D045040	CABINET ASSY	[50]	C 907	189P136080	C-CERAMIC-AC	B VA1 2200pF-M
	975B064015	FRAME SCREEN ASSY	[45]	C 9A30	189P033070	C-M-MF/PP-AC	AC125V/250V 4700pF-M
	975B064016	FRAME SCREEN ASSY	[50]	C 9A31	189P033070	C-M-MF/PP-AC	AC125V/250V 4700pF-M
	702C948060	TRAY ASSY		R 900	109D031080	R-COMPOSITION	1/2W 820K Ω -K
	700A590060	BACK COVER	[45]				
	700C147010	BACK COVER	[50]				
	700C146020	BACK COVER	[45]				

PARTS LIST

MODEL : VS - 40VA2 / VS - 45VA2 / VS - 50VA2 / VS - 60VA2

In order to expedite delivery of replacement part orders.

- Specify :
1. Model number / Serial number
 2. Part number and Description
 3. Quantity

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

* : Warranty return items

: Critical components

MARK	B	C	D	F	G	J	K
TOLERANCE (%)	± 0.1	± 0.25	± 0.5	± 1	± 2	± 5	± 10

MARK	M	N	V	X	Z	P	Q
TOLERANCE (%)	± 20	± 30	+ 10 - 10	+ 40 - 20	+ 80 - 20	+ 100 - 0	+ 30 - 10

MARK	B	C	D	F	G
TOLERANCE (pF)	± 0.1	± 0.25	± 0.5	± 1	± 2

ABBREVIATION

[40] : VS - 40VA2

[45] : VS - 45VA2

[50] : VS - 50VA2

[60] : VS - 60VA2

[40] : VS - 40VA2

[45] : VS - 45VA2

[50] : VS - 50VA2

[60] : VS - 60VA2

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
TUBES							
	251C037070	CRT ASSY	RED-MONOCROME [40]	IC7101	263P548010	IC	M5M4C264L-12
	251C037080	CRT ASSY	GREEN-MONOCROME [40]	IC7601	272P184010	IC	LA7222
	251C037090	CRT ASSY	BLUE-MONOCROME [40]	IC7602	272P394010	IC	LA7956
	251C037040	CRT ASSY	RED-MONOCROME [45]	IC7603	272P394010	IC	LA7956
	251C037050	CRT ASSY	GREEN-MONOCROME [45]	IC7604	272P164010	IC	LA7220
				IC7605	266P064010	IC	M51320P
	251C037060	CRT ASSY	BLUE-MONOCROME [45]	IC7606	263P546010	IC	M66320P
	251C039040	CRT ASSY	RED-MONOCROME [50]	IC800	272P690010	IC	PA0036
	251C039050	CRT ASSY	GREEN-MONOCROME [50]	IC801	272P106020	IC	μ PC4574C
	251C039060	CRT ASSY	BLUE-MONOCROME [50]	IC802	272P106020	IC	μ PC4574C
	251C040070	CRT ASSY	RED-MONOCROME [60]	IC803	263P053020	IC	TC4053BP
				IC804	272P106020	IC	μ PC4574C
	251C040080	CRT ASSY	GREEN-MONOCROME [60]	IC805	272P106020	IC	μ PC4574C
	251C040090	CRT ASSY	BLUE-MONOCROME [60]	IC806	272P106020	IC	μ PC4574C
INTEGRATED CIRCUITS				IC807	272P106030	IC	μ PC4570HA
				IC808	272P106030	IC	μ PC4570HA
IC101	272P026010	IC	M51366SP	IC809	266P727010	IC	μ PC339C/MC3302P
IC201	272P467010	IC	M52023SP	IC811	266P934020	IC	μ PC7812H
IC202	272P181010	IC	CX20125	IC812	266P919010	IC	μ PC7912H
IC203	266P064010	IC	M51320P	IC8A0	267P077020	IC	STK391-020
IC204	272P302010	IC	PA0030	IC8A1	267P077020	IC	STK391-020
IC205	272P865010	IC	HA11561	IC8501	263P306010	IC	TC74HC123AP
IC206	272P631010	IC	AN91A14K	IC8551	267P108010	IC	STK396-010
IC209	266P686010	IC	MSM5258RS	IC8801	267P825020	IC	STK4275MB
IC2001	267P076010	IC	SI-3120C	IC9A0	267P112010	IC	STR-M6511
IC2002	267P076020	IC	SI-3090C	IC9A1	267P062010	IC	SE130N
IC2003	267P076030	IC	SI-3050C	TRANSISTORS			
IC2004	263P560010	IC	M62359P	Q 101	260P356010	TRANSISTOR	2SC1906
IC300	272P440010	IC	LA4282	Q 102	260P559030	TRANSISTOR	2SC1740S-S
IC3001	272P351020	IC	μ PC1871CU	Q 103	260P560040	TRANSISTOR	2SA933S-S
IC3301	266P419030	IC	M5223L	Q 104	260P559030	TRANSISTOR	2SC1740S-S
IC3302	272P139020	IC	LA7953-N	Q 105	260P356010	TRANSISTOR	2SC1906
IC3303	266P172010	IC	M5218L	Q 201	260P559030	TRANSISTOR	2SC1740S-S
IC3304	272P373020	IC	5222P	Q 201	260P559030	TRANSISTOR	2SC1740S-S
IC3305	266P172010	IC	M5218L	Q 222	260P559030	TRANSISTOR	2SC1740S-S
IC3306	266P419030	IC	M5223L	Q 223	260P559030	TRANSISTOR	2SC1740S-S
IC3307	272P184010	IC	LA7222	Q 224	260P559030	TRANSISTOR	2SC1740S-S
IC3308	272P184010	IC	LA7222 [50, 60]	Q 240	260P559030	TRANSISTOR	2SC1740S-S
IC401	272P239050	IC	LA7838-S	Q 263	260P559030	TRANSISTOR	2SC1740S-S
IC4A00	263P306010	IC	TC74HC123AP	Q 264	260P560040	TRANSISTOR	2SA933S-S
IC4A01	272P263010	IC	CXA 1268-P	Q 280	260P559030	TRANSISTOR	2SC1740S-S
IC4A02	272P106020	IC	μ PC4574C	Q 280	260P559030	TRANSISTOR	2SC1740S-S
IC4A03	263P053020	IC	TC4053BP	Q 2B1	260P559030	TRANSISTOR	2SC1740S-S
IC4B04	272P106010	IC	μ PC-4570C	Q 2B2	260P559030	TRANSISTOR	2SC1740S-S
IC500	266P154010	IC	μ PC393C	Q 2D0	260P559030	TRANSISTOR	2SC1740S-S
IC5A0	272P132010	IC	AN 5551	Q 2H0	260P559030	TRANSISTOR	2SC1740S-S
IC5A1	272P106030	IC	μ PC4570HA	Q 2H1	260P560040	TRANSISTOR	2SA933S-S
IC5000	272P240010	IC	M5237L	Q 2K1	260P560040	TRANSISTOR	2SA933S-S
IC701	274P200010	IC	M37204M8-561SP	Q 2K2	260P559030	TRANSISTOR	2SC1740S-S
IC702	263P170030	IC	CAT35C102HP	Q 2K3	260P559030	TRANSISTOR	2SC1740S-S
IC703	272P758010	IC	M62358P	Q 2K4	260P559030	TRANSISTOR	2SC1740S-S
IC704	274P008020	IC	MN1380-L	Q 2K5	260P559030	TRANSISTOR	2SC1740S-S
IC706	267P076030	IC	SI-3050C	Q 2K6	260P559030	TRANSISTOR	2SC1740S-S
IC7000	272P860010	IC	HA11574	Q 2L1	260P560040	TRANSISTOR	2SA933S-S
IC7100	274P177010	IC	HD49416FS				

[40] : VS - 40VA2

[45] : VS - 45VA2

[50] : VS - 50VA2

[60] : VS - 60VA2

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
Q 2L2	260P560040	TRANSISTOR	2SA933S-S	Q 7005	260P817030	CHIP TRANSISTOR	2SA1037K
Q 2L3	260P560040	TRANSISTOR	2SA933S-S	Q 7006	260P817030	CHIP TRANSISTOR	2SA1037K
Q 2M0	260P559030	TRANSISTOR	2SC1740S-S	Q 7007	260P818080	CHIP TRANSISTOR	2SC2412K-R
Q 2M1	260P559030	TRANSISTOR	2SC1740S-S	Q 7040	260P818080	CHIP TRANSISTOR	2SC2412K-R
Q 2N0	260P559030	TRANSISTOR	2SC1740S-S	Q 7041	260P817020	CHIP TRANSISTOR	2SA1037K-R
Q 2N1	260P559030	TRANSISTOR	2SC1740S-S	Q 7042	260P817020	CHIP TRANSISTOR	2SA1037K-R
Q 2P1	260P559030	TRANSISTOR	2SC1740S-S	Q 7043	260P818080	CHIP TRANSISTOR	2SC2412K-R
Q 2P2	260P559030	TRANSISTOR	2SC1740S-S	Q 7050	260P818020	CHIP TRANSISTOR	2SC2412K-R
Q 2001	260P559030	TRANSISTOR	2SC1740S-S	Q 7051	260P818020	CHIP TRANSISTOR	2SC2412K-R
Q 2004	260P559030	TRANSISTOR	2SC1740S-S	Q 7052	260P817020	CHIP TRANSISTOR	2SA1037K-R
Q 2005	260P560040	TRANSISTOR	2SA933S-S	Q 7053	260P817020	CHIP TRANSISTOR	2SA1037K-R
Q 2007	260P559030	TRANSISTOR	2SC1740S-S	Q 7054	260P817030	CHIP TRANSISTOR	2SA1037K
Q 2008	260P559030	TRANSISTOR	2SC1740S-S	Q 7055	260P818080	CHIP TRANSISTOR	2SC2412K-R
Q 303	260P559030	TRANSISTOR	2SC1740S-S	Q 7056	260P817030	CHIP TRANSISTOR	2SA1037K
Q 311	260P560040	TRANSISTOR	2SA933S-S	Q 7057	260P818080	CHIP TRANSISTOR	2SC2412K-R
Q 312	260P559030	TRANSISTOR	2SC1740S-S	Q 7058	260P818080	CHIP TRANSISTOR	2SC2412K-R
Q 313	260P559030	TRANSISTOR	2SC1740S-S	Q 7602	260P559030	TRANSISTOR	2SC1740S-S
Q 318	260P559030	TRANSISTOR	2SC1740S-S	Q 7603	260P559030	TRANSISTOR	2SC1740S-S
Q 3A1	260P356010	TRANSISTOR	2SC1906	Q 7800	260P559030	TRANSISTOR	2SC1740S-S
Q 3301	260P559030	TRANSISTOR	2SC1740S-S	Q 808	260P305010	TRANSISTOR	2SC2901
Q 3302	260P559030	TRANSISTOR	2SC1740S-S	Q 809	260P459020	TRANSISTOR	2SK381-B
Q 3303	260P559030	TRANSISTOR	2SC1740S-S	Q 810	260P459020	TRANSISTOR	2SK381-B
Q 3304	260P559030	TRANSISTOR	2SC1740S-S	Q 811	260P459020	TRANSISTOR	2SK381-B
Q 3305	260P559030	TRANSISTOR	2SC1740S-S	Q 812	260P459020	TRANSISTOR	2SK381-B
Q 4A00	260P559030	TRANSISTOR	2SC1740S-S	Q 830	260P693010	TRANSISTOR	2SC3064-F
Q 4A01	260P559030	TRANSISTOR	2SC1740S-S	Q 838	260P690010	TRANSISTOR	2SA1237-F
Q 4B02	260P574030	TRANSISTOR	2SD1264A-P	Q 8501	260P559030	TRANSISTOR	2SC1740S-S
Q 4B03	260P574030	TRANSISTOR	2SD1264A-P	Q 8521	260P559030	TRANSISTOR	2SC1740S-S
Q 4B04	260P573020	TRANSISTOR	2SB940A-P	Q 8522	260P559030	TRANSISTOR	2SC1740S-S
Q 500	260P422010	TRANSISTOR	2SC2482	Q 8523	260P559030	TRANSISTOR	2SC1740S-S
Q 501	260P572010	TRANSISTOR	2SD1556	Q 8800	260P559030	TRANSISTOR	2SC1740S-S
Q 502	260P559050	TRANSISTOR	2SC1740S-E	Q 950	260P559050	TRANSISTOR	2SC1740S-E
Q 503	260P559050	TRANSISTOR	2SC1740S-E	Q 951	260P559050	TRANSISTOR	2SC1740S-E
Q 504	260P559030	TRANSISTOR	2SC1740S-S	Q 9A0	260P325030	TRANSISTOR	2SC2655-Y
Q 506	260P559030	TRANSISTOR	2SC1740S-S	Q 9A40	260P587020	TRANSISTOR	2SC 2333-M
Q 5A0	260P420020	TRANSISTOR	2SC2073-B, C	Q 9A41	260P422010	TRANSISTOR	2SC2482
Q 5000	260P559030	TRANSISTOR	2SC1740S-S	Q 9A42	260P422010	TRANSISTOR	2SC2482
Q 5001	260P167040	TRANSISTOR	2SA673A-D	Q 9A43	260P422010	TRANSISTOR	2SC2482
Q 6A1	260P385020	TRANSISTOR	2SC2229-Y	DIODES			
Q 6A2	260P385020	TRANSISTOR	2SC2229-Y	D 101	264P502010	DIODE	HZ5ALL
Q 6A3	260P385020	TRANSISTOR	2SC2229-Y	D 102	264P470040	DIODE	EQA02-30C/RD33EB1
Q 6A4	260P571010	TRANSISTOR	2SC3789-D, E	D 201	264P045040	DIODE	1S2471
Q 6A5	260P571010	TRANSISTOR	2SC3789-D, E	D 202	264P045040	DIODE	1S2471
Q 6A6	260P571010	TRANSISTOR	2SC3789-D, E	D 203	264P045040	DIODE	1S2471
Q 701	260P559030	TRANSISTOR	2SC1740S-S	D 204	264P045040	DIODE	1S2471
Q 705	260P559030	TRANSISTOR	2SC1740S-S	D 205	264P045040	DIODE	1S2471
Q 707	260P559030	TRANSISTOR	2SC1740S-S	D 206	264P045040	DIODE	1S2471
Q 711	260P559030	TRANSISTOR	2SC1740S-S	D 208	264P045040	DIODE	1S2471
Q 715	260P559030	TRANSISTOR	2SC1740S-S	D 209	264P045040	DIODE	1S2471
Q 716	260P560040	TRANSISTOR	2SA933S-S	D 210	264P045040	DIODE	1S2471
Q 717	260P559030	TRANSISTOR	2SC1740S-S	D 212	264P045040	DIODE	1S2471
Q 7001	260P817030	CHIP TRANSISTOR	2SA1037K	D 213	264P045040	DIODE	1S2471
Q 7002	260P817030	CHIP TRANSISTOR	2SA1037K	D 216	264P045040	DIODE	1S2471
Q 7003	260P817030	CHIP TRANSISTOR	2SA1037K	D 220	264P484070	DIODE	RD6. 2FB2
Q 7004	260P817030	CHIP TRANSISTOR	2SA1037K				

[40] : VS - 40VA2

[45] : VS - 45VA2

[50] : VS - 50VA2

[60] : VS - 60VA2

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
D 222	264P045040	DIODE	1S2471	D 714	264P502020	DIODE	HZ5BLL
D 223	264P045040	DIODE	1S2471	D 715	264P502020	DIODE	HZ5BLL [45, 50]
D 224	264P045040	DIODE	1S2471	D 7001	264P821010	CHIP DIODE	HSM2836
D 225	264P045040	DIODE	1S2471	D 7601	264P463040	DIODE	EQA02-09AB/RD9. 1EB1
D 226	264P045040	DIODE	1S2471	D 7602	264P463040	DIODE	EQA02-09AB/RD9. 1EB1
D 228	264P483080	DIODE	RD5. 1FB2	D 7603	264P463040	DIODE	EQA02-09AB/RD9. 1EB1
D 229	264P045040	DIODE	1S2471	D 78A0	264P225010	LIGHT EMITTING DIODE	LN25RP [60]
D 231	264P045040	DIODE	1S2471	D 78B0	264P189010	LIGHT EMITTING DIODE	TLR124 [40, 45, 50]
D 232	264P464040	DIODE	EQA02-10B	D 803	264P045040	DIODE	1S2471
D 2001	264P045040	DIODE	1S2471	D 804	264P045040	DIODE	1S2471
D 2002	264P285010	DIODE	S5500D	D 810	264P045040	DIODE	1S2471
D 2003	264P045040	DIODE	1S2471	D 811	264P045040	DIODE	1S2471
D 301	264P285010	DIODE	S5500D	D 820	264P045040	DIODE	1S2471
D 302	264P045040	DIODE	1S2471	D 821	264P045040	DIODE	1S2471
D 303	264P045040	DIODE	1S2471	D 826	264P483080	DIODE	RD5. 1FB2
D 304	264P502020	DIODE	HZ5BLL	D 827	264P483080	DIODE	RD5. 1FB2
D 305	264P501040	DIODE	HZ3ALL	D 830	264P045040	DIODE	1S2471
D 307	264P285010	DIODE	S5500D	D 831	264P045040	DIODE	1S2471
D 309	264P045040	DIODE	1S2471	D 832	264P045040	DIODE	1S2471
D 3301	264P045040	DIODE	1S2471	D 833	264P045040	DIODE	1S2471
D 3302	264P501050	DIODE	HZ3BLL	D 834	264P045040	DIODE	1S2471
D 400	264P464050	DIODE	EQA02-10C	D 835	264P045040	DIODE	1S2471
D 401	264P285010	DIODE	S5500D	D 836	264P045040	DIODE	1S2471
D 4A00	264P045040	DIODE	1S2471	D 837	264P045040	DIODE	1S2471
D 4B01	264P045040	DIODE	1S2471	D 8A0	264P045040	DIODE	1S2471
D 4B02	264P483080	DIODE	RD5. 1FB2	D 8A1	264P045040	DIODE	1S2471
D 4B03	264P483080	DIODE	RD5. 1FB2	D 8B0	264P045040	DIODE	1S2471
D 4B04	264P045040	DIODE	1S2471	D 8B1	264P045040	DIODE	1S2471
D 500	264P533010	DIODE	RS 4FS	D 8501	264P045040	DIODE	1S2471
D 501	264P358070	DIODE	RU 4AM	D 8502	264P045040	DIODE	1S2471
D 502	264P146010	DIODE	RC 2	D 900	264P535010	DIODE	RBV-608
D 503	264P045040	DIODE	1S2471	D 920	264P512020	DIODE	RBV-40C
D 504	264P045040	DIODE	1S2471	D 921	264P512020	DIODE	RBV-40C
D 505	264P102020	DIODE	RU 3B	D 951	264P487080	DIODE	RD12FB2
D 506	264P045040	DIODE	1S2471	D 952	264P487080	DIODE	RD12FB2
D 507	264P244030	DIODE	HZT22-02	D 953	264P045040	DIODE	1S2471
D 508	264P045040	DIODE	1S2471	D 954	264P045040	DIODE	1S2471
D 509	264P457050	DIODE	RD3. 0EB1	D 960	264P358090	DIODE	RU 4YX
D 510	264P045040	DIODE	1S2471	D 962	264P102020	DIODE	RU 3B
D 511	264P045040	DIODE	1S2471	D 963	264P102020	DIODE	RU 3B
D 512	264P101050	DIODE	RM 1B	D 964	264P102020	DIODE	RU 3B
D 515	264P045040	DIODE	1S2471	D 9A01	264P578010	DIODE	RG 2A
D 518	264P489010	DIODE	RD16FB1	D 9A02	264P588010	DIODE	FML-G16S
D 5A1	264P045040	DIODE	1S2471	D 9A03	264P358090	DIODE	RU 4YX
D 5000	264P285010	DIODE	S5500D	D 9A04	264P102040	DIODE	RU 3M
D 6A5	264P501020	DIODE	HZ2BLL	D 9A05	264P102040	DIODE	RU 3M
D 6A6	264P045040	DIODE	1S2471	D 9A06	264P358090	DIODE	RU 4YX
D 6A7	264P045040	DIODE	1S2471	D 9A10	264P521040	DIODE	EU 1A
D 701	264P045040	DIODE	1S2471	D 9A11	264P622010	DIODE	AL01Z
D 704	264P045040	DIODE	1S2471	D 9A13	264P622010	DIODE	AL01Z
D 705	264P045040	DIODE	1S2471	D 9A42	264P102020	DIODE	RU 3B
D 706	264P486020	DIODE	RD8. 2FB3			FILTERS	
D 711	264P045040	DIODE	1S2471	CF101	296P024020	CERAMIC TRAP	TPS4. 5MB7
D 712	264P045040	DIODE	1S2471	CF201	299P051050	CERAMIC RESONATOR	CS8500F9
D 713	264P045040	DIODE	1S2471				

[40] : VS - 40VA2

[45] : VS - 45VA2

[50] : VS - 50VA2

[60] : VS - 60VA2

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
CF301	296P067010	CERAMIC FILTER	SFS4.5MB2	L 505	409P565020	FILTER COIL	
DL205	296P113010	COMB FILTER		L 506	409P691010	FILTER COIL	
LC7101	409P771010	LOW PASS FILTER	A285TCIS-13505	L 6A0	325C107020	PEAKING COIL	56 μ H-J
SF101	296P096020	SAW FILTER	SAF45MVK56Z	L 6A1	325C107020	PEAKING COIL	56 μ H-J
SF301	296P092010	SAW FILTER	SAF41MC70Z	L 6A2	325C107020	PEAKING COIL	56 μ H-J
X 701	296P064010	CERAMIC RESONATOR	CSA-4.00MG	L 6A3	325C161060	PEAKING COIL	18 μ H-K
		DELAY LINES		L 6A4	325C161060	PEAKING COIL	18 μ H-K
DL200	337P147020	DELAY LINE		L 6A5	325C161060	PEAKING COIL	18 μ H-K
DL201	337P147010	DELAY LINE		L 701	325C121030	PEAKING COIL	10 μ H-K
DL202	337P113020	DELAY LINE	100NS	L 702	325C121030	PEAKING COIL	10 μ H-K
DL203	337P134010	DELAY LINE	SDL-4256	L 703	325C121060	PEAKING COIL	18 μ H-K
		COILS		L 704	325C121030	PEAKING COIL	10 μ H-K
	330P164010	DEFLECTION YOKE COIL	RED/BLUE-CRT	L 707	325C121030	PEAKING COIL	10 μ H-K
	330P164020	DEFLECTION YOKE COIL	GREEN-CRT	L 708	321C010040	RF COIL	1000 μ H-J
L 101	325C124030	PEAKING COIL	0.22 μ H-M	L 710	325C121030	PEAKING COIL	10 μ H-K
L 102	325C124090	PEAKING COIL	0.68 μ H-M	L 711	325C121030	PEAKING COIL	10 μ H-K
L 103	325C120010	PEAKING COIL	1.0 μ H-M	L 712	325C121030	PEAKING COIL	10 μ H-K
L 104	325C121030	PEAKING COIL	10 μ H-K	L 7000	321C031040	RF COIL	10 μ H-K
L 105	325C122030	PEAKING COIL	68 μ H-K	L 7001	325C107050	PEAKING COIL	100 μ H-J
L 106	323P171010	VIF COIL	45.75MHz	L 7002	325C141030	CHIP COIL	10 μ H-K
L 107	323P111020	VIF COIL	45MHz	L 7003	325C141030	CHIP COIL	10 μ H-K
L 108	325C122030	PEAKING COIL	68 μ H-K	L 7004	325C141030	CHIP COIL	10 μ H-K
L 109	325C120020	PEAKING COIL	1.2 μ H-M	L 7005	321C031040	RF COIL	10 μ H-K
L 111	325C121030	PEAKING COIL	10 μ H-K	L 7101	325C141030	CHIP COIL	10 μ H-K
L 117	325C121030	PEAKING COIL	10 μ H-K	L 7102	325C141030	CHIP COIL	10 μ H-K
L 201	325C121030	PEAKING COIL	10 μ H-K	L 7103	325C141030	CHIP COIL	10 μ H-K
L 202	325C101030	PEAKING COIL	10 μ H-K	L 7601	325C121030	PEAKING COIL	10 μ H-K
L 203	325C121090	PEAKING COIL	33 μ H-K	L 7602	325C121030	PEAKING COIL	10 μ H-K
L 204	325C121030	PEAKING COIL	10 μ H-K	L 7603	325C121030	PEAKING COIL	10 μ H-K
L 205	325C121030	PEAKING COIL	10 μ H-K	L 77A1	325C121030	PEAKING COIL	10 μ H-K
L 207	325C121000	PEAKING COIL	5.6 μ H-K	L 7800	325C121030	PEAKING COIL	10 μ H-K
L 212	325C121030	PEAKING COIL	10 μ H-K	L 801	321C031040	RF COIL	10 μ H-K
L 213	325C161000	PEAKING COIL	5.6 μ H-K	L 805	321C031040	RF COIL	10 μ H-K
L 220	325C122040	PEAKING COIL	82 μ H-K	L 807	351P068030	PEAKING COIL	SBC-03
L 2N0	325C162090	PEAKING COIL	220 μ H-K	L 808	351P068030	PEAKING COIL	SBC-03
L 2N1	325C162090	PEAKING COIL	220 μ H-K	L 809	351P068030	PEAKING COIL	SBC-03
L 2002	325C121030	PEAKING COIL	10 μ H-K	L 810	351P068030	PEAKING COIL	SBC-03
L 2003	325C121030	PEAKING COIL	10 μ H-K	L 811	321C031040	RF COIL	10 μ H-K
L 2004	325C163070	PEAKING COIL	1000 μ H-K	L 812	321C031040	RF COIL	10 μ H-K
L 2006	325C121030	PEAKING COIL	10 μ H-K	L 814	321C031090	RF COIL	33 μ H-K
L 2007	325C121030	PEAKING COIL	10 μ H-K	L 815	321C031090	RF COIL	33 μ H-K
L 2009	321C031040	RF COIL	10 μ H-K	L 900	351P064030	LINE FILTER	SE26TL-40030A
L 303	327P072010	SIF COIL	TKACS-27071BY	L 9A01	411D009020	FERRITE CORE FILTER	
L 3A1	325C122030	PEAKING COIL	68 μ H-K	L 9A02	411P001010	FERRITE LEAD	
L 3301	325C121030	PEAKING COIL	10 μ H-K	L 9A03	351P070010	FILTER COIL	560 μ H-K
L 3A01	325C121030	PEAKING COIL	10 μ H-K	L 9A10	411P001010	FERRITE LEAD	
L 4A1	321C031090	RF COIL	33 μ H-K	L 9A12	411P001010	FERRITE LEAD	
L 4A2	321C031090	RF COIL	33 μ H-K	LC7102	409P736010	COIL	CLOCK-ADJ 11614
L 4B10	351P068010	PEAKING COIL	SB4-680-122	LF7000	409P696020	EMI FILTER	BLM41A01
L 500	321C030070	RF COIL	3.3 μ H-K	LF7001	409P402030	EMI FILTER	DSS306-55FZ103N100
L 501	411P001010	FERRITE LEAD		LF7002	409P402020	EMI FILTER	DSS306-55B102M100
L 502	411P001010	FERRITE LEAD		LF7003	409P402020	EMI FILTER	DSS306-55B102M100
L 503	333P025040	H-LIN. COIL		T 101	320P026030	TRAP COIL	

[40] : VS - 40VA2

[45] : VS - 45VA2

[50] : VS - 50VA2

[60] : VS - 60VA2

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
TRANSFORMERS				VR8B6	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
T 201	350P581010	POWER		VR8B7	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
T 4800	349P159020	CHROMA-BP		VR8B8	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
T 500	349P192010	PCC	TOP-BOTTOM	VR8B9	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
T 501	336P009030	H. DRIVE		VR8C0	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
T 5000	334P191010	FLYBACK		VR8C1	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
T 9A0	349P122080	PCC		VR8C2	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
	350P580010	POWER		VR8C3	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
VARIABLE RESISTORS				VR8C4	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
VR102	127C080040	VR-SEMIFIXED	1/5W B1KΩ-M	VR8C5	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
VR1A1	127C080060	VR-SEMIFIXED	1/5W B3KΩ-M	VR8C6	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
VR204	127C080070	VR-SEMIFIXED	1/5W B5KΩ-M	VR8C7	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
VR205	127C080040	VR-SEMIFIXED	1/5W B1KΩ-M	VR8C8	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
VR3001	127C080070	VR-SEMIFIXED	1/5W B5KΩ-M	VR8C9	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
VR3002	127C080090	VR-SEMIFIXED	1/5W B20KΩ-M	VR8D0	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
VR3003	127C080070	VR-SEMIFIXED	1/5W B5KΩ-M	VR8D1	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
VR3004	127C080070	VR-SEMIFIXED	1/5W B5KΩ-M	VR8E0	127C091010	VR-SEMIFIXED	1/5W B50KΩ-M
VR3005	127C081010	VR-SEMIFIXED	1/5W B50KΩ-M	VR8E1	127C091010	VR-SEMIFIXED	1/5W B50KΩ-M
VR400	127C090080	VR-SEMIFIXED	1/5W B10KΩ-M	VR8E2	127C091010	VR-SEMIFIXED	1/5W B50KΩ-M
VR401	127C090090	VR-SEMIFIXED	1/5W B20KΩ-M	VR8E3	127C091010	VR-SEMIFIXED	1/5W B50KΩ-M
VR4A00	127C190080	VR-SEMIFIXED	1/5W B10KΩ-M	VR8501	127C090080	VR-SEMIFIXED	1/5W B10KΩ-M
VR4A01	127C190080	VR-SEMIFIXED	1/5W B10KΩ-M	VR8800	120C330090	VR-PCB	1/20W B5KΩ-20N
VR4A02	127C190080	VR-SEMIFIXED	1/5W B10KΩ-M	VR8801	120C330090	VR-PCB	1/20W B5KΩ-20N
VR5A0	127C280030	VR-SEMIFIXED	1/10W B500Ω-N	VR8802	120C330090	VR-PCB	1/20W B5KΩ-20N
VR5A2	127C280060	VR-SEMIFIXED	1/10W B3KΩ-N	RESISTORS			
VR5A3	127C280060	VR-SEMIFIXED	1/10W B3KΩ-N	R 2F1	103P532070	NETWORK	1/8W 1.5KΩ-JX3
VR5000	127C280040	VR-SEMIFIXED	1/10W B1KΩ-N	R 229	103P553010	NETWORK	1/8W 3.3KΩ-JX5
VR6A0	127C080010	VR-SEMIFIXED	1/5W B200Ω-M	R 311	103P378040	FUSE	1/4W 2.2Ω-J
VR6A1	127C080010	VR-SEMIFIXED	1/5W B200Ω-M	R 312	103P378040	FUSE	1/4W 2.2Ω-J
VR6A2	127C091040	VR-SEMIFIXED	1/5W B300KΩ-M	R 4B52	103P397090	FUSE	1/2W 0.82Ω-J
VR6A3	127C091040	VR-SEMIFIXED	1/5W B300KΩ-M	R 4B53	103P397090	FUSE	1/2W 0.82Ω-J
VR6A4	127C091040	VR-SEMIFIXED	1/5W B300KΩ-M	R 503	109D074030	CEMENT METAL	5W 3.9KΩ-K/J
VR6A5	129D074010	VR-SEMIFIXED	0.6W-B4M-8S-M	R 508	103P438050	FUSE METAL	2W 2.7Ω-K/J
VR6A6	129D074010	VR-SEMIFIXED	0.6W-B4M-8S-M	R 509	103P391030	FUSE	1/2W 100Ω-J
VR6A7	129D074010	VR-SEMIFIXED	0.6W-B4M-8S-M	R 510	103P398010	FUSE	1/2W 1.2Ω-J
VR7001	127C090030	VR-SEMIFIXED	1/5W B500Ω-M	R 5008	103P398000	FUSE	1/2W 1.0Ω-J
VR7002	127C090030	VR-SEMIFIXED	1/5W B500Ω-M	R 754	103P603070	NETWORK	1/8W 10KΩ-JX10
VR8A0	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7C0	103P532050	NETWORK	1/8W 1KΩ-JX3
VR8A1	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7001	103P402090	CHIP RESISTOR	1/10W 2.2KΩ-J
VR8A2	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7002	103P401050	CHIP RESISTOR	1/10W 150Ω-J
VR8A3	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7003	103P402090	CHIP RESISTOR	1/10W 2.2KΩ-J
VR8A4	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7004	103P401050	CHIP RESISTOR	1/10W 150Ω-J
VR8A5	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7007	103P402050	CHIP RESISTOR	1/10W 1KΩ-J
VR8A6	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7008	103P473060	CHIP RESISTOR	1/10W 3KΩ-F
VR8A7	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7009	103P402090	CHIP RESISTOR	1/10W 2.2KΩ-J
VR8A8	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7010	103P402060	CHIP RESISTOR	1/10W 1.2KΩ-J
VR8A9	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7011	103P402070	CHIP RESISTOR	1/10W 1.5KΩ-J
VR8B0	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7012	103P403020	CHIP RESISTOR	1/10W 3.9KΩ-J
VR8B1	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7013	103P402090	CHIP RESISTOR	1/10W 2.2KΩ-J
VR8B2	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7014	103P402060	CHIP RESISTOR	1/10W 1.2KΩ-J
VR8B3	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7015	103P402070	CHIP RESISTOR	1/10W 1.5KΩ-J
VR8B4	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7016	103P473000	CHIP RESISTOR	1/10W 1.6KΩ-F
VR8B5	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7019	103P403050	CHIP RESISTOR	1/10W 6.8KΩ-J
				R 7020	103P403090	CHIP RESISTOR	1/10W 15KΩ-J

[40] : VS - 40VA2

[45] : VS - 45VA2

[50] : VS - 50VA2

[60] : VS - 60VA2

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 7021	103P403090	CHIP RESISTOR	1/10W 15K Ω -J	R 7108	103P403020	CHIP RESISTOR	1/10W 3.9K Ω -J
R 7022	103P403050	CHIP RESISTOR	1/10W 6.8K Ω -J	R 7109	103P402020	CHIP RESISTOR	1/10W 560 Ω -J
R 7023	103P402090	CHIP RESISTOR	1/10W 2.2K Ω -J	R 7111	103P406010	CHIP RESISTOR	1/10W 1M Ω -J
R 7024	103P402020	CHIP RESISTOR	1/10W 560 Ω -J [40, 60]	R 7112	103P406010	CHIP RESISTOR	1/10W 1M Ω -J
R 7024	103P401050	CHIP RESISTOR	1/10W 150 Ω -J [45, 50]	R 7123	103P409050	CHIP RESISTOR	1/10W 0 Ω
R 7025	103P404020	CHIP RESISTOR	1/10W 27K Ω -J	R 7124	103P409050	CHIP RESISTOR	1/10W 0 Ω
R 7026	103P404020	CHIP RESISTOR	1/10W 27K Ω -J	R 7125	103P409050	CHIP RESISTOR	1/10W 0 Ω
R 7027	103P401050	CHIP RESISTOR	1/10W 150 Ω -J	R 7126	103P409050	CHIP RESISTOR	1/10W 0 Ω
R 7028	103P402090	CHIP RESISTOR	1/10W 2.2K Ω -J	R 7127	103P409050	CHIP RESISTOR	1/10W 0 Ω
R 7029	103P405070	CHIP RESISTOR	1/10W 470K Ω -J	R 7128	103P409050	CHIP RESISTOR	1/10W 0 Ω
R 7031	103P409050	CHIP RESISTOR	1/10W 0 Ω	R 7129	103P409050	CHIP RESISTOR	1/10W 0 Ω
R 7032	103P409050	CHIP RESISTOR	1/10W 0 Ω [45, 50]	R 7130	103P409050	CHIP RESISTOR	1/10W 0 Ω
R 7033	103P409050	CHIP RESISTOR	1/10W 0 Ω [45, 50]	R 7131	103P409050	CHIP RESISTOR	1/10W 0 Ω
R 7034	103P409050	CHIP RESISTOR	1/10W 0 Ω	R 7150	103P479000	CHIP METAL	1/10W 510K Ω -F
R 7041	103P473090	CHIP RESISTOR	1/10W 3.9K Ω -F	R 901	109D071020	CEMENT WIRE	15W 2.2 Ω -K
R 7042	103P473090	CHIP RESISTOR	1/10W 3.9K Ω -F	R 9A15	102P106080	WIRE	2W 0.1 Ω -J
R 7043	103P402050	CHIP RESISTOR	1/10W 1K Ω -J	R 9A16	102P106080	WIRE	2W 0.1 Ω -J
R 7044	103P402050	CHIP RESISTOR	1/10W 1K Ω -J	CAPACITORS AND TRIMMERS			
R 7045	103P402050	CHIP RESISTOR	1/10W 1K Ω -J	C 408	189P071050	C-M-PLASTIC-PP	200V 0.33 μ F-J
R 7046	103P474090	CHIP RESISTOR	1/10W 10K Ω -F	C 4B30	189P071090	C-M-PLASTIC-PP	200V 0.27 μ F-J
R 7047	103P473030	CHIP RESISTOR	1/10W 2.2K Ω -F	C 510	189P071010	C-M-PLASTIC-PP	200V 0.56 μ F-J
R 7048	103P402050	CHIP RESISTOR	1/10W 1K Ω -J	C 511	189P071070	C-M-PLASTIC-PP	200V 0.39 μ F-J
R 7049	103P403030	CHIP RESISTOR	1/10W 4.7K Ω -J	C 512	189P071080	C-M-PLASTIC-PP	200V 0.47 μ F-J
R 7060	103P475040	CHIP RESISTOR	1/10W 16K Ω -F	C 513	189P071010	C-M-PLASTIC-PP	200V 0.56 μ F-J
R 7061	103P475040	CHIP RESISTOR	1/10W 16K Ω -F	C 515	189P072020	C-M-POLYESTER	1600V 0.1 μ F-K
R 7062	103P402050	CHIP RESISTOR	1/10W 1K Ω -J	C 520	189P071040	C-M-PLASTIC-PP	200V 0.12 μ F-J
R 7063	103P475090	CHIP RESISTOR	1/10W 27K Ω -F	C 532	189P071050	C-M-PLASTIC-PP	200V 0.33 μ F-J
R 7064	103P475040	CHIP RESISTOR	1/10W 16K Ω -F	C 716	149D811030	CR-MULTIPLE	50V 10000PFX4
R 7065	103P402050	CHIP RESISTOR	1/10W 1K Ω -J	C 731	202P109040	TRIMMER CAPACITOR	7.3pF-45pF
R 7066	103P475040	CHIP RESISTOR	1/10W 16K Ω -F	C 7001	181P504090	CHIP CAPACITOR	35V 4.7 μ F-M
R 7067	103P475040	CHIP RESISTOR	1/10W 16K Ω -F	C 7002	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z
R 7068	103P471060	CHIP RESISTOR	1/10W 430 Ω -F	C 7003	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z
R 7070	103P402050	CHIP RESISTOR	1/10W 1K Ω -J	C 7004	141P133090	CHIP CAPACITOR	F50V 0.022 μ F-Z
R 7071	103P402050	CHIP RESISTOR	1/10W 1K Ω -J	C 7006	141P133090	CHIP CAPACITOR	F50V 0.022 μ F-Z
R 7072	103P402010	CHIP RESISTOR	1/10W 470 Ω -J	C 7007	181P522030	CHIP ELECTROLYTIC-C	16V 10 μ F-M
R 7073	103P402050	CHIP RESISTOR	1/10W 1K Ω -J	C 7008	154P323000	CHIP CAPACITOR	SL50V 56pF-J [45, 50]
R 7074	103P402050	CHIP RESISTOR	1/10W 1K Ω -J	C 7009	154P324000	CHIP CAPACITOR	SL50V 150pF-J
R 7075	103P402010	CHIP RESISTOR	1/10W 470 Ω -J	C 7010	141P137060	CHIP CAPACITOR	B50V 0.033 μ F-K
R 7080	103P472060	CHIP RESISTOR	1/10W 1.1K Ω -F	C 7011	181P506020	CHIP CAPACITOR	50V 2.2 μ F-M
R 7081	103P401030	CHIP RESISTOR	1/10W 100 Ω -J	C 7012	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z
R 7082	103P474030	CHIP RESISTOR	1/10W 5.6K Ω -F	C 7014	181P522060	CHIP ELECTROLYTIC-C	16V 47 μ F-M
R 7083	103P472000	CHIP RESISTOR	1/10W 620 Ω -F	C 7015	181P500010	CHIP CAPACITOR	6.3V 22 μ F-M [40, 60]
R 7084	103P409050	CHIP RESISTOR	1/10W 0 Ω	C 7015	181P506010	CHIP CAPACITOR	04W 50V 1 μ F-M [45, 50]
R 7085	103P476010	CHIP RESISTOR	1/10W 33K Ω -F	C 7016	181P526010	CHIP CAPACITOR	50V 1 μ F-M [40, 60]
R 7086	103P476060	CHIP METAL	1/10W 51K Ω -F	C 7017	141P133090	CHIP CAPACITOR	F50V 0.022 μ F-Z
R 7087	103P401070	CHIP RESISTOR	1/10W 220 Ω -J	C 7018	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z
R 7088	103P401070	CHIP RESISTOR	1/10W 220 Ω -J	C 7020	181P526020	CHIP ELECTROLYTIC-C	04W 50V 2.2 μ F-M [40, 60]
R 7100	103P409050	CHIP RESISTOR	1/10W 0 Ω	C 7021	181P522030	CHIP ELECTROLYTIC-C	16V 10 μ F-M
R 7101	103P406010	CHIP RESISTOR	1/10W 1M Ω -J [45, 50]	C 7022	141P133090	CHIP CAPACITOR	F50V 0.022 μ F-Z
R 7102	103P403070	CHIP RESISTOR	1/10W 10K Ω -J	C 7023	181P502030	CHIP CAPACITOR	16V 10 μ F-M
R 7103	103P402070	CHIP RESISTOR	1/10W 1.5K Ω -J	C 7024	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z
R 7104	103P402070	CHIP RESISTOR	1/10W 1.5K Ω -J	C 7025	154P322000	CHIP CAPACITOR	SL50V 22pF-J
R 7105	103P403050	CHIP RESISTOR	1/10W 6.8K Ω -J	C 7026	181P504090	CHIP CAPACITOR	35V 4.7 μ F-M
R 7106	103P403020	CHIP RESISTOR	1/10W 3.9K Ω -J				
R 7107	103P402020	CHIP RESISTOR	1/10W 560 Ω -J				

[40] : VS - 40VA2

[45] : VS - 45VA2

[50] : VS - 50VA2

[60] : VS - 60VA2

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 7027	181P506020	CHIP CAPACITOR	50V 2.2 μ F-M	C 909	185D063080	ELECTROLYTIC-C	H200V 820 μ F-M 105C
C 7028	181P506000	CHIP CAPACITOR	50V 0.47 μ F-M	C 923	185D057020	ELECTROLYTIC-C	H50V 6800 μ F-M
C 7029	181P506000	CHIP CAPACITOR	50V 0.47 μ F-M	C 927	185D054060	ELECTROLYTIC-C	H35V 4700 μ F-M
C 7030	141P131010	CHIP CAPACITOR	B50V 1500pF-K	C 9A08	185D063020	ELECTROLYTIC-C	H180V 470 μ F-M 105C
C 7031	181P528030	CHIP ELECTROLYTIC-C	[40, 60]	C 9A20	185D063030	ELECTROLYTIC-C	H180V 820 μ F-M 105C
C 7032	181P520040	CHIP ELECTROLYTIC-C	6.3V 100 μ F-M	VC731	202P109040	TRIMMER CAPACITOR	7.3pF-45pF
C 7033	141P133090	CHIP CAPACITOR	F50V 0.022 μ F-Z	SWITCHES			
C 7034	181P528030	CHIP ELECTROLYTIC-C	[40, 60]	S 7800	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7035	141P130090	CHIP CAPACITOR	B50V 1000pF-K	S 7801	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7036	181P524090	CHIP CAPACITOR	35V 4.7 μ F-M [40, 60]	S 7802	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7037	141P133090	CHIP CAPACITOR	F50V 0.022 μ F-Z	S 7803	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7038	181P500010	CHIP CAPACITOR	6.3V 22 μ F-M	S 7804	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7039	154P322020	CHIP CAPACITOR	SL50V 27pF-J	S 7805	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7041	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z	S 7806	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7042	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z	S 7807	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7045	154P333030	CHIP CAPACITOR	CH50V 82pF-J [45, 50]	S 7808	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7046	154P332090	CHIP CAPACITOR	CH50V 56pF-J	S 7809	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7047	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z	S 7810	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7050	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z	S 7811	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7051	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z	S 7812	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7052	181P506010	CHIP CAPACITOR	04W 50V 1 μ F-M	S 7813	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7053	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z	S 7814	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7054	154P324080	CHIP CAPACITOR	SL50V 330pF-J	S 7815	432P100030	KEY BOARD SWITCH	1-1 H=7
C 7055	154P324080	CHIP CAPACITOR	SL50V 330pF-J	MISCELLANEOUS			
C 7060	141P133090	CHIP CAPACITOR	F50V 0.022 μ F-Z	462P004020	A-MAGNET ASSY	[40]	
C 7101	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	462P016070	F-A MAGNET ASSY	[40]	
C 7102	154P323060	CHIP CAPACITOR	SL50V 100pF-J	462P020090	F-A MAGNET ASSY	[40]	
C 7103	181P502030	CHIP CAPACITOR	16V 10 μ F-M	462P022020	F-A MAGNET ASSY	[40]	
C 7104	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	462P035010	MAGNET ASSY	RED/BLUE-CRT [45, 50, 60]	
C 7105	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	462P035020	MAGNET ASSY	GREEN-CRT [45, 50, 60]	
C 7106	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	453B011040	ANODE CAP	[40]	
C 7107	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	767D027020	MIRROR	[45]	
C 7108	181P500010	CHIP CAPACITOR	6.3V 22 μ F-M	767D038020	MIRROR	[50]	
C 7109	181P500010	CHIP CAPACITOR	6.3V 22 μ F-M	767D028070	MIRROR	[60]	
C 7110	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	767D039010	MIRROR	[60]	
C 7111	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	449C026020	CRT SOCKET		
C 7112	141P137040	CHIP CAPACITOR	B25V 0.022 μ F-K	AG6A0	224D019090	AIR GAP	1.5KV
C 7113	141P137040	CHIP CAPACITOR	B25V 0.022 μ F-K	AG6A1	224D019090	AIR GAP	1.5KV
C 7114	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	AG6A2	224D019090	AIR GAP	1.5KV
C 7115	141P133090	CHIP CAPACITOR	F50V 0.022 μ F-Z	AG6A3	224D019090	AIR GAP	1.5KV
C 7116	141P133090	CHIP CAPACITOR	F50V 0.022 μ F-Z	AG6A4	224D019090	AIR GAP	1.5KV
C 7117	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	AG6A5	224D019090	AIR GAP	1.5KV
C 7118	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z	AG6A6	224D019040	AIR GAP	2KV
C 7119	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	AG6A7	224D019040	AIR GAP	2KV
C 7120	181P504090	CHIP CAPACITOR	35V 4.7 μ F-M	AG6A8	224D019040	AIR GAP	2KV
C 7121	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	F 900	283D060020	FUSE	S5A
C 7122	181P500010	CHIP CAPACITOR	6.3V 22 μ F-M	F 901	283D038070	FUSE	S4A
C 7123	181P500010	CHIP CAPACITOR	6.3V 22 μ F-M [40]	F 920	283D038060	FUSE	S2A
C 7123	181P506010	CHIP CAPACITOR	04W 50V 1 μ F-M [45, 50, 60]	F 9A0	283D038070	FUSE	S4A
C 7124	181P500010	CHIP CAPACITOR	6.3V 22 μ F-M	K 3Z1	287P073010	POWER RELAY	VB-12TKU-5(6)-UL3
C 7126	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	K 3Z2	287P060010	POWER RELAY	DH12D2-0S(1)
C 7127	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	K 900	287P049020	POWER RELAY	DG12D1-0(M)-L
C 7128	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	K 901	287P049020	POWER RELAY	DG12D1-0(M)-L
C 7129	181P520040	CHIP ELECTROLYTIC-C	6.3V 100 μ F-M				

[40] : VS - 40VA2

[45] : VS - 45VA2

[50] : VS - 50VA2

[60] : VS - 60VA2

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
PC9A0	268P033010	PHOTO COUPLER	ON3161-R				
PJ3A01	440B095010	TERMINAL JACK	[40, 45]				
PJ3A01	440B095030	TERMINAL BOARD	PINX13+DIN [50, 60]				
PJ3A02	440C189010	SPEAKER TERMINAL	(+)X2&(-)X2				
PJ79A0	440C181010	JACK BOARD	PINX3 & DINX1				
RT500	265P090050	THERMISTOR	NTH5D102KA				
RT501	265P090050	THERMISTOR	NTH5D102KA				
RT502	265P090050	THERMISTOR	NTH5D102KA				
RT5D0	265P090050	THERMISTOR	NTH5D102KA				
RV900	265P086010	VARIATOR	SNR-271KD10				
SP391	480P655010	SPEAKER	181P05M6910				
SP392	480P233010	SPEAKER	E040PX474M69 [45, 50, 60]				
SP393	480P655010	SPEAKER	181P05M6910				
SP394	480P233010	SPEAKER	E040PX474M69 [45, 50, 60]				
*TU101	295P266030	TUNER	ENV568D5G3				
X 201	285P029050	CRYSTAL RESONATOR	3. 5795MHz				
X 202	285P015010	CRYSTAL RESONATOR	3. 57955MHz				
X 7001	285P066010	CRYSTAL RESONATOR	3. 5795MHz				
Z 7706	939P296090	PREAMP UNIT	HC-437M				
Z 9A01	283P030090	FUSE	SSFR 4A				
Z 9A02	283P030090	FUSE	SSFR 4A				
		PRINTED CIRCUIT BOARD ASSY'S					
*	935D156001	CONTROL PCB ASSY					
*	935C438003	CONV PCB ASSY	[40]				
*	935C438002	CONV PCB ASSY	[45]				
*	935C438001	CONV PCB ASSY	[50]				
*	935C438004	CONV PCB ASSY	[60]				
*	935C440001	CRT PCB ASSY					
*	935D157001	DISPLAY PCB ASSY	[40, 45, 50]				
*	935D167001	DISPLAY PCB ASSY	[60]				
*	935D154001	FRONT PCB ASSY					
*	935D153001	FS PCB ASSY					
*	935C437006	MAIN PCB ASSY	[40]				
*	935C437002	MAIN PCB ASSY	[45]				
*	935C437001	MAIN PCB ASSY	[50]				
*	935C437005	MAIN PCB ASSY	[60]				
*	935C442003	PCC PCB ASSY	[40]				
*	935C442002	PCC PCB ASSY	[45]				
*	935C442001	PCC PCB ASSY	[50]				
*	935C442004	PCC PCB ASSY	[60]				
*	930B552003	PIP PCB ASSY	[40, 60]				
*	930B552001	PIP PCB ASSY	[45, 50]				
*	935C439001	POWER SUB PCB ASSY					
*	935D155001	PREAMP PCB ASSY					
*	935D162003	SIDE PCC PCB ASSY	[40]				
*	935D162002	SIDE PCC PCB ASSY	[45]				
*	935D162001	SIDE PCC PCB ASSY	[50]				
*	935D162004	SIDE PCC PCB ASSY	[60]				
*	935C441002	SIGNAL PCB ASSY	[40, 45]				
*	935C441001	SIGNAL PCB ASSY	[50, 60]				
*	935D152002	TERMINAL PCB ASSY	[40, 45]				
*	935D152001	TERMINAL PCB ASSY	[50, 60]				
						MECHANICAL PARTS	
				669D171080	SCREW	M4X25 0.7	
				669D204070	SCREW	M4X20	[40]
				669D204060	SCREW	M4X16	[45, 60]
				669D130050	SCREW	4X20 BLACK	[40, 45, 50]
				669D140070	SCREW	4X16	[60]
				669D220030	SCREW	3X10 46LA005	
				669D220040	SCREW	3X12 46LA005	
				669D220060	SCREW	3X16 46LA005	
				669D221040	SCREW	4X12 46LA005	
				669D220020	SCREW	3X8 46LA005	[40, 50, 60]
				669D221080	SCREW	4X25 46LA005	[45, 50, 60]
				669D221060	SCREW	4X16 46LA005	[60]
				669D212010	SCREW	3X12	
				669D222060	SCREW	3X16-12	[40]
				669D222040	SCREW	3X12	[45, 50, 60]
				683D010050	WASHER	104512	
						COSMETIC PARTS	
				246C160010	AC POWER CORD		
				762B289010	BACK BOARD ASSY		[60]
				740B123010	BAFFLE BOARD ASSY		[40]
				975C125008	BAFFLE BOARD ASSY		[45]
				975C125009	BAFFLE BOARD ASSY		[50]
				975C125011	BAFFLE BOARD ASSY		[60]
				975D045060	CABINET ASSY		[40]
				975D045020	CABINET ASSY		[45]
				975D045030	CABINET ASSY		[50]
				975D045050	CABINET ASSY		[60]
				975B069002	FRAME SCREEN ASSY		[40]
				975B064019	FRAME SCREEN ASSY		[45]
				975B064017	FRAME SCREEN ASSY		[50]
				975B071010	FRAME SCREEN ASSY		[60]
				702C948060	TRAY ASSY		[45, 50]
				700C147030	BACK COVER		[40]
				700A565020	BACK COVER	(F)	[40]
				700A566030	BACK COVER		[40]
				700C146040	BACK COVER		[45]
				700C146020	BACK COVER		[45]
				700A590070	BACK COVER		[50]
				700C146050	BACK COVER		[50]
				700C147020	BACK COVER		[60]
				702C991010	SIDE PANEL		[60]
				702C991020	SIDE PANEL		[60]
				702A355020	TERMINAL BOARD		[40, 45]
				702A355010	TERMINAL BOARD		[50, 60]
				589D042030	CASTER		[40, 45, 50]
				589C017010	CASTER		[60]
				540C015010	LEAD CLAMPER		
				641D173010	CLIP	AC-POWER-CORD	
				621D840010	SCREEN CLIP	UP/DOWN	[60]
				621D840070	SCREEN CLIP	SIDE-L/R	[60]
				761C437010	DOOR CATCH		[40, 60]
				761C273010	DOOR CATCH		[45, 50]

[40] : VS - 40VA2

[45] : VS - 45VA2

[50] : VS - 50VA2

[60] : VS - 60VA2

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION		SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	
	702A330010	CONTROL DOOR ASSY		[40]	OTHER CRITICAL COMPONENTS				
	702B712030	CONTROL DOOR ASSY		[45]	C 506	172P170090	C-M-PLASTIC-PP	1600V 4700pF-J	
	702B737010	CONTROL DOOR ASSY		[50]	C 507	172P171000	C-M-PLASTIC-PP	1600V 5600pF-J	
	702C837000	CONTROL DOOR ASSY		[60]	C 508	172P085060	C-PLASTIC-PP	400V 0.033 μF-J	
	771D091010	FOOT	(L)	[40]	C 509	189P177020	C-M-PLASTIC-PP	400V 0.015 μF-J	
	771D090010	FOOT	(S)	[40, 45, 50]	C 900	189P033050	C-M-MF/PP-AC	AC125V/250V 0.1 μF-M	
*	491P014020	FRESNEL LENS		[40]	C 901	189P136080	C-CERAMIC-AC	B VA1 2200pF-M	
*	491P004050	FRESNEL LENS		[45]	C 902	189P136080	C-CERAMIC-AC	B VA1 2200pF-M	
*	491P009020	FRESNEL LENS		[50]	C 903	189P033040	C-M-MF/PP-AC	AC125V/250V 0.047 μF-M	
*	491P016030	FRESNEL LENS		[60]	C 904	189P136080	C-CERAMIC-AC	B VA1 2200pF-M	
	702B826010	FRONT UNIT		[60]	C 905	189P136080	C-CERAMIC-AC	B VA1 2200pF-M	
	702B825090	FRONT PANEL		[60]	C 906	189P136080	C-CERAMIC-AC	B VA1 2200pF-M	
	761A085010	SPEAKER GRILLE		[40]	C 907	189P136080	C-CERAMIC-AC	B VA1 2200pF-M	
	761A093010	SPEAKER GRILLE		[45]	C 9A30	189P033070	C-M-MF/PP-AC	AC125V/250V 4700pF-M	
	761A092010	SPEAKER GRILLE		[50]	C 9A31	189P033070	C-M-MF/PP-AC	AC125V/250V 4700pF-M	
	740B159010	SPEAKER GRILLE		[60]	R 900	109D031080	R-COMPOSITION	1/2W 820K Ω-K	
	734D417020	PUSH KNOB							
*	491P013050	LENTICULAR SCREEN		[40]					
*	491P006090	LENTICULAR SCREEN		[45]					
*	491P010080	LENTICULAR SCREEN		[50]					
*	491P015050	LENTICULAR SCREEN		[60]					
	440C176080	TERMINAL BOARD	ANTENNA						
PACKING PARTS AND ACCESSORY									
1	803B684010	CUSHION TOP		[40]					
1	802B392040	PACKING CASE	SLEEVE	[45]					
1	802B390050	PACKING CASE	SLEEVE	[50]					
1	803B695010	CUSHION TOP		[60]					
2	802B311030	PACKING CASE	REAR-CUSHION	[40]					
2	803B692010	CUSHION TOP		[45, 50]					
2	802B315020	PACKING CASE		[60]					
3	802B311040	PACKING CASE	SLEEVE	[40]					
3	802B392030	PACKING CASE	REAR-CORNER	[45]					
3	802B390030	PACKING CASE	REAR-CORNER	[50]					
3	802B315050	PACKING CASE	SLEEVE	[60]					
4	802B311020	PACKING CASE	BOTTOM	[40]					
4	802B392020	PACKING CASE	BOTTOM	[45]					
4	802B390020	PACKING CASE	BOTTOM	[50]					
4	802B315070	PACKING CASE	SIDE-LEFT	[60]					
5	831C060040	PACKING BAG	1900X2200X2.0	[40, 45, 50]					
5	802B315060	PACKING CASE	SIDE-RIGHT	[60]					
6	829C045020	PACKING SHEET		[40, 45, 50]					
6	831C060060	PACKING BAG	2500X2300X2.0	[60]					
7	829D084010	PACKING SHEET		[40]					
7	829D126090	PACKING SHEET	2600X600X.5	[45, 50]					
7	829C047010	PACKING SHEET	TOP	[60]					
8	802B390040	PACKING CASE	FRONT-CORNER	[50]					
8	829D126030	PACKING SHEET	BOTTOM	[60]					
	871D178020	INSTRUCTION BOOK		[40]					
	871D174020	INSTRUCTION BOOK		[45]					
	871D174030	INSTRUCTION BOOK		[45, 50, 60]					
	871D178030	INSTRUCTION BOOK		[60]					
*	939P347050	REMOTE HAND UNIT		[40]					
*	939P434030	REMOTE HAND UNIT		[45, 50, 60]					

PARTS LIST

MODEL : VS – 45VA2CA / VS – 50VA2CA / VS – 60VA2CA

In order to expedite delivery of replacement part orders.

- Specify :
1. Model number / Serial number
 2. Part number and Description
 3. Quantity

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

MARK : Critical components

MARK	B	C	D	F	G	J	K
TOLERANCE (%)	± 0.1	± 0.25	± 0.5	± 1	± 2	± 5	± 10

MARK	M	N	V	X	Z	P	Q
TOLERANCE (%)	± 20	± 30	+ 10 - 10	+ 40 - 20	+ 80 - 20	+ 100 - 0	+ 30 - 10

MARK	B	C	D	F	G
TOLERANCE (pF)	± 0.1	± 0.25	± 0.5	± 1	± 2

ABBREVIATION

[45] : VS – 45VA2CA

[50] : VS – 50VA2CA

[60] : VS – 60VA2CA

[45] : VS - 45VA2CA

[50] : VS - 50VA2CA

[60] : VS - 60VA2CA

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
TUBES				IC7603	272P394010	IC	LA7956
				IC7604	272P164010	IC	LA7220
				IC7605	266P064010	IC	M51320P
251C037040	CRT ASSY		RED-MONOCHROME [45]	IC7606	263P546010	IC	M66320P
251C037050	CRT ASSY		GREEN-MONOCHROME [45]	IC800	272P690010	IC	PA0036
251C037060	CRT ASSY		BLUE-MONOCHROME [45]	IC801	272P106020	IC	μ PC4574C
251C039040	CRT ASSY		RED-MONOCHROME [50]	IC802	272P106020	IC	μ PC4574C
251C039050	CRT ASSY		GREEN-MONOCHROME [50]	IC803	263P053020	IC	TC4053BP
251C039060	CRT ASSY		BLUE-MONOCHROME [50]	IC804	272P106020	IC	μ PC4574C
251C040070	CRT ASSY		RED-MONOCHROME [60]	IC805	272P106020	IC	μ PC4574C
251C040080	CRT ASSY		GREEN-MONOCHROME [60]	IC806	272P106020	IC	μ PC4574C
251C040090	CRT ASSY		BLUE-MONOCHROME [60]	IC807	272P106030	IC	μ PC4570HA
				IC808	272P106030	IC	μ PC4570HA
INTEGRATED CIRCUITS				IC809	266P727010	IC	μ PC339C/MC3302P
IC101	272P026010	IC	M51366SP	IC811	266P934020	IC	μ PC7812H
IC201	272P467010	IC	M52023SP	IC812	266P919010	IC	μ PC7912H
IC202	272P181010	IC	CX20125	IC8A0	267P077020	IC	STK391-020
IC203	266P064010	IC	M51320P	IC8A1	267P077020	IC	STK391-020
IC204	272P302010	IC	PA0030	IC8501	263P306010	IC	TC74HC123AP
IC205	272P865010	IC	HA11561	IC8551	267P108010	IC	STK396-010
IC206	272P631010	IC	AN91A14K	IC8801	267P825020	IC	STK4275MB
IC209	266P686010	IC	MSM5258RS	IC9A0	267P112010	IC	STR-M6511
IC2001	267P076010	IC	SI-3120C	IC9A1	267P062010	IC	SE130N
IC2002	267P076020	IC	SI-3090C	TRANSISTORS			
IC2003	267P076030	IC	SI-3050C	Q 101	260P356010	TRANSISTOR	2SC1906
IC2004	263P560010	IC	M62359P	Q 102	260P559030	TRANSISTOR	2SC1740S-S
IC300	272P440010	IC	LA4282	Q 103	260P560040	TRANSISTOR	2SA933S-S
IC3001	272P351020	IC	μ PC1871CU	Q 104	260P559030	TRANSISTOR	2SC1740S-S
IC3301	266P419030	IC	M5223L	Q 105	260P356010	TRANSISTOR	2SC1906
IC3302	272P139020	IC	LA7953-N	Q 201	260P559030	TRANSISTOR	2SC1740S-S
IC3303	266P172010	IC	M5218L	Q 221	260P559030	TRANSISTOR	2SC1740S-S
IC3304	272P373020	IC	5222P	Q 222	260P559030	TRANSISTOR	2SC1740S-S
IC3305	266P172010	IC	M5218L	Q 223	260P559030	TRANSISTOR	2SC1740S-S
IC3306	266P419030	IC	M5223L	Q 224	260P559030	TRANSISTOR	2SC1740S-S
IC3307	272P184010	IC	LA7222	Q 240	260P559030	TRANSISTOR	2SC1740S-S
IC3308	272P184010	IC	LA7222 [50, 60]	Q 263	260P559030	TRANSISTOR	2SC1740S-S
IC401	272P239050	IC	LA7838-S	Q 264	260P560040	TRANSISTOR	2SA933S-S
IC4A00	263P306010	IC	TC74HC123AP	Q 280	260P559030	TRANSISTOR	2SC1740S-S
IC4A01	272P263010	IC	CXA 1268-P	Q 280	260P559030	TRANSISTOR	2SC1740S-S
IC4A02	272P106020	IC	μ PC4574C	Q 2B1	260P559030	TRANSISTOR	2SC1740S-S
IC4A03	263P053020	IC	TC4053BP	Q 2B2	260P559030	TRANSISTOR	2SC1740S-S
IC4B04	272P106010	IC	μ PC-4570C	Q 2D0	260P559030	TRANSISTOR	2SC1740S-S
IC500	266P154010	IC	μ PC393C	Q 2H0	260P559030	TRANSISTOR	2SC1740S-S
IC5A0	272P132010	IC	AN 5551	Q 2H1	260P560040	TRANSISTOR	2SA933S-S
IC5A1	272P106030	IC	μ PC4570HA	Q 2K1	260P560040	TRANSISTOR	2SA933S-S
IC5000	272P240010	IC	M5237L	Q 2K2	260P559030	TRANSISTOR	2SC1740S-S
IC701	274P200010	IC	M37204M8-561SP	Q 2K3	260P559030	TRANSISTOR	2SC1740S-S
IC702	263P170030	IC	CAT35C102HP	Q 2K4	260P559030	TRANSISTOR	2SC1740S-S
IC703	272P758010	IC	M62358P	Q 2K5	260P559030	TRANSISTOR	2SC1740S-S
IC704	274P008020	IC	MN1380-L	Q 2K6	260P559030	TRANSISTOR	2SC1740S-S
IC706	267P076030	IC	SI-3050C	Q 2L1	260P560040	TRANSISTOR	2SA933S-S
IC7000	272P860010	IC	HA11574	Q 2L2	260P560040	TRANSISTOR	2SA933S-S
IC7100	274P177010	IC	HD49416FS	Q 2L3	260P560040	TRANSISTOR	2SA933S-S
IC7101	263P548010	IC	M5M4C264L-12	Q 2M0	260P559030	TRANSISTOR	2SC1740S-S
IC7601	272P184010	IC	LA7222				
IC7602	272P394010	IC	LA7956				

[45] : VS - 45VA2CA

[50] : VS - 50VA2CA

[60] : VS - 60VA2CA

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION		SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
Q 2M1	260P559030	TRANSISTOR	2SC1740S-S		Q 7040	260P818080	CHIP TRANSISTOR	2SC2412K-R
Q 2N0	260P559030	TRANSISTOR	2SC1740S-S		Q 7041	260P817020	CHIP TRANSISTOR	2SA1037K-R
Q 2N1	260P559030	TRANSISTOR	2SC1740S-S		Q 7042	260P817020	CHIP TRANSISTOR	2SA1037K-R
Q 2P1	260P559030	TRANSISTOR	2SC1740S-S		Q 7043	260P818080	CHIP TRANSISTOR	2SC2412K-R
Q 2P2	260P559030	TRANSISTOR	2SC1740S-S		Q 7050	260P818020	CHIP TRANSISTOR	2SC2412K-R
Q 2001	260P559030	TRANSISTOR	2SC1740S-S		Q 7051	260P818020	CHIP TRANSISTOR	2SC2412K-R
Q 2004	260P559030	TRANSISTOR	2SC1740S-S		Q 7052	260P817020	CHIP TRANSISTOR	2SA1037K-R
Q 2005	260P560040	TRANSISTOR	2SA933S-S		Q 7053	260P817020	CHIP TRANSISTOR	2SA1037K-R
Q 303	260P559030	TRANSISTOR	2SC1740S-S		Q 7054	260P817030	CHIP TRANSISTOR	2SA1037K
Q 311	260P560040	TRANSISTOR	2SA933S-S		Q 7055	260P818080	CHIP TRANSISTOR	2SC2412K-R
Q 312	260P559030	TRANSISTOR	2SC1740S-S		Q 7056	260P817030	CHIP TRANSISTOR	2SA1037K
Q 313	260P559030	TRANSISTOR	2SC1740S-S		Q 7057	260P818080	CHIP TRANSISTOR	2SC2412K-R
Q 318	260P559030	TRANSISTOR	2SC1740S-S		Q 7058	260P818080	CHIP TRANSISTOR	2SC2412K-R
Q 3A1	260P356010	TRANSISTOR	2SC1906		Q 7602	260P559030	TRANSISTOR	2SC1740S-S
Q 3301	260P559030	TRANSISTOR	2SC1740S-S		Q 7603	260P559030	TRANSISTOR	2SC1740S-S
Q 3302	260P559030	TRANSISTOR	2SC1740S-S		Q 7800	260P559030	TRANSISTOR	2SC1740S-S
Q 3303	260P559030	TRANSISTOR	2SC1740S-S		Q 808	260P305010	TRANSISTOR	2SC2901
Q 3304	260P559030	TRANSISTOR	2SC1740S-S		Q 809	260P459020	TRANSISTOR	2SK381-B
Q 3305	260P559030	TRANSISTOR	2SC1740S-S		Q 810	260P459020	TRANSISTOR	2SK381-B
Q 4A00	260P559030	TRANSISTOR	2SC1740S-S		Q 811	260P459020	TRANSISTOR	2SK381-B
Q 4A01	260P559030	TRANSISTOR	2SC1740S-S		Q 812	260P459020	TRANSISTOR	2SK381-B
Q 4B02	260P574030	TRANSISTOR	2SD1264A-P	[45, 50]	Q 830	260P693010	TRANSISTOR	2SC3064-F
Q 4B02	260P574020	TRANSISTOR	2SD1264A-P	[60]	Q 838	260P690010	TRANSISTOR	2SA1237-F
Q 4B03	260P574030	TRANSISTOR	2SD1264A-P	[45, 50]	Q 8501	260P559030	TRANSISTOR	2SC1740S-S
Q 4B03	260P574020	TRANSISTOR	2SD1264A-P	[60]	Q 8521	260P559030	TRANSISTOR	2SC1740S-S
Q 4B04	260P573020	TRANSISTOR	2SB940A-P		Q 8522	260P559030	TRANSISTOR	2SC1740S-S
Q 500	260P422010	TRANSISTOR	2SC2482		Q 8523	260P559030	TRANSISTOR	2SC1740S-S
Q 501	260P572010	TRANSISTOR	2SD1556		Q 8800	260P559030	TRANSISTOR	2SC1740S-S
Q 502	260P559050	TRANSISTOR	2SC1740S-E		Q 950	260P559050	TRANSISTOR	2SC1740S-E
Q 503	260P559050	TRANSISTOR	2SC1740S-E		Q 951	260P559050	TRANSISTOR	2SC1740S-E
Q 504	260P559030	TRANSISTOR	2SC1740S-S		Q 9A0	260P325030	TRANSISTOR	2SC2655-Y
Q 506	260P559030	TRANSISTOR	2SC1740S-S		Q 9A40	260P587020	TRANSISTOR	2SC 2333-M
Q 5A0	260P420020	TRANSISTOR	2SC2073-B, C		Q 9A41	260P422010	TRANSISTOR	2SC2482
Q 5000	260P559030	TRANSISTOR	2SC1740S-S		Q 9A42	260P422010	TRANSISTOR	2SC2482
Q 5001	260P167040	TRANSISTOR	2SA673A-D		Q 9A43	260P422010	TRANSISTOR	2SC2482
Q 6A1	260P385020	TRANSISTOR	2SC2229-Y		DIODES			
Q 6A2	260P385020	TRANSISTOR	2SC2229-Y		D 101	264P502010	DIODE	HZ5ALL
Q 6A3	260P385020	TRANSISTOR	2SC2229-Y		D 102	264P470040	DIODE	EQA02-30C/RD33EB1
Q 6A4	260P571010	TRANSISTOR	2SC3789-D, E		D 201	264P045040	DIODE	1S2471
Q 6A5	260P571010	TRANSISTOR	2SC3789-D, E		D 202	264P045040	DIODE	1S2471
Q 6A6	260P571010	TRANSISTOR	2SC3789-D, E		D 203	264P045040	DIODE	1S2471
Q 701	260P559030	TRANSISTOR	2SC1740S-S		D 204	264P045040	DIODE	1S2471
Q 705	260P559030	TRANSISTOR	2SC1740S-S		D 205	264P045040	DIODE	1S2471
Q 707	260P559030	TRANSISTOR	2SC1740S-S		D 206	264P045040	DIODE	1S2471
Q 711	260P559030	TRANSISTOR	2SC1740S-S		D 208	264P045040	DIODE	1S2471
Q 715	260P559030	TRANSISTOR	2SC1740S-S		D 209	264P045040	DIODE	1S2471
Q 716	260P560040	TRANSISTOR	2SA933S-S		D 210	264P045040	DIODE	1S2471
Q 717	260P559030	TRANSISTOR	2SC1740S-S		D 212	264P045040	DIODE	1S2471
Q 7001	260P817030	CHIP TRANSISTOR	2SA1037K		D 213	264P045040	DIODE	1S2471
Q 7002	260P817030	CHIP TRANSISTOR	2SA1037K		D 216	264P045040	DIODE	1S2471
Q 7003	260P817030	CHIP TRANSISTOR	2SA1037K		D 220	264P484070	DIODE	RD6. 2FB2
Q 7004	260P817030	CHIP TRANSISTOR	2SA1037K		D 222	264P045040	DIODE	1S2471
Q 7005	260P817030	CHIP TRANSISTOR	2SA1037K		D 223	264P045040	DIODE	1S2471
Q 7006	260P817030	CHIP TRANSISTOR	2SA1037K		D 224	264P045040	DIODE	1S2471
Q 7007	260P818080	CHIP TRANSISTOR	2SC2412K-R		D 225	264P045040	DIODE	1S2471

[45] : VS - 45VA2CA

[50] : VS - 50VA2CA

[60] : VS - 60VA2CA

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
D 226	264P045040	DIODE	1S2471	D 7601	264P463040	DIODE	EOA02-09AB/RD9. 1EB1
D 228	264P483080	DIODE	RD5. 1FB2	D 7602	264P463040	DIODE	EOA02-09AB/RD9. 1EB1
D 229	264P045040	DIODE	1S2471	D 7603	264P463040	DIODE	EOA02-09AB/RD9. 1EB1
D 231	264P045040	DIODE	1S2471	D 78A0	264P225010	LIGHT EMITTING DIODE	LN25RP [60]
D 232	264P464040	DIODE	EOA02-10B	D 78B0	264P189010	LIGHT EMITTING DIODE	TLR124 [45, 50]
D 2001	264P045040	DIODE	1S2471	D 803	264P045040	DIODE	1S2471
D 2002	264P285010	DIODE	S5500D	D 804	264P045040	DIODE	1S2471
D 2003	264P045040	DIODE	1S2471	D 810	264P045040	DIODE	1S2471
D 301	264P285010	DIODE	S5500D	D 811	264P045040	DIODE	1S2471
D 302	264P045040	DIODE	1S2471	D 820	264P045040	DIODE	1S2471
D 303	264P045040	DIODE	1S2471	D 821	264P045040	DIODE	1S2471
D 304	264P502020	DIODE	HZ5BLL	D 826	264P483080	DIODE	RD5. 1FB2
D 305	264P501040	DIODE	HZ3ALL	D 827	264P483080	DIODE	RD5. 1FB2
D 307	264P285010	DIODE	S5500D	D 830	264P045040	DIODE	1S2471
D 308	264P501060	DIODE	HZ3CLL [60]	D 831	264P045040	DIODE	1S2471
D 309	264P045040	DIODE	1S2471	D 832	264P045040	DIODE	1S2471
D 3301	264P045040	DIODE	1S2471	D 833	264P045040	DIODE	1S2471
D 3302	264P501050	DIODE	HZ3BLL	D 834	264P045040	DIODE	1S2471
D 400	264P464050	DIODE	EOA02-10C	D 835	264P045040	DIODE	1S2471
D 401	264P285010	DIODE	S5500D	D 836	264P045040	DIODE	1S2471
D 4A00	264P045040	DIODE	1S2471	D 837	264P045040	DIODE	1S2471
D 4B01	264P045040	DIODE	1S2471	D 8A0	264P045040	DIODE	1S2471
D 4B02	264P483080	DIODE	RD5. 1FB2	D 8A1	264P045040	DIODE	1S2471
D 4B03	264P483080	DIODE	RD5. 1FB2	D 8B0	264P045040	DIODE	1S2471
D 4B04	264P045040	DIODE	1S2471	D 8B1	264P045040	DIODE	1S2471
D 500	264P533010	DIODE	RS 4FS	D 8501	264P045040	DIODE	1S2471
D 501	264P358070	DIODE	RU 4AM	D 8502	264P045040	DIODE	1S2471
D 502	264P146010	DIODE	RC 2	D 900	264P535010	DIODE	RBV-608
D 503	264P045040	DIODE	1S2471	D 920	264P512020	DIODE	RBV-40C
D 504	264P045040	DIODE	1S2471	D 921	264P512020	DIODE	RBV-40C
D 505	264P102020	DIODE	RU 3B	D 951	264P487080	DIODE	RD12FB2
D 506	264P045040	DIODE	1S2471	D 952	264P487080	DIODE	RD12FB2
D 507	264P244030	DIODE	HZT22-02	D 953	264P045040	DIODE	1S2471
D 508	264P045040	DIODE	1S2471	D 954	264P045040	DIODE	1S2471
D 509	264P457050	DIODE	RD3. 0EB1	D 960	264P358090	DIODE	RU 4YX
D 510	264P045040	DIODE	1S2471	D 962	264P102020	DIODE	RU 3B
D 511	264P045040	DIODE	1S2471	D 963	264P102020	DIODE	RU 3B
D 512	264P101050	DIODE	RM 1B	D 964	264P102020	DIODE	RU 3B
D 515	264P045040	DIODE	1S2471	D 9A01	264P578010	DIODE	RG 2A
D 518	264P489010	DIODE	RD16FB1	D 9A02	264P588010	DIODE	FML-G16S
D 5A1	264P045040	DIODE	1S2471	D 9A03	264P358090	DIODE	RU 4YX
D 5000	264P285010	DIODE	S5500D	D 9A04	264P102040	DIODE	RU 3M
D 6A5	264P501020	DIODE	HZ2BLL	D 9A05	264P102040	DIODE	RU 3M
D 6A6	264P045040	DIODE	1S2471	D 9A06	264P358090	DIODE	RU 4YX
D 6A7	264P045040	DIODE	1S2471	D 9A10	264P521040	DIODE	EU 1A
D 701	264P045040	DIODE	1S2471	D 9A11	264P622010	DIODE	AL01Z
D 704	264P045040	DIODE	1S2471	D 9A13	264P622010	DIODE	AL01Z
D 705	264P045040	DIODE	1S2471	D 9A42	264P102020	DIODE	RU 3B
D 706	264P486020	DIODE	RD8. 2FB3	FILTERS			
D 711	264P045040	DIODE	1S2471	CF101	296P024020	CERAMIC TRAP	TPS4. 5MB7
D 712	264P045040	DIODE	1S2471	CF201	299P051050	CERAMIC RESONATOR	CSB500F9
D 713	264P045040	DIODE	1S2471	CF301	296P067010	CERAMIC FILTER	SFS4. 5MB2
D 714	264P502020	DIODE	HZ5BLL	DL205	296P113010	COMB FILTER	
D 715	264P502020	DIODE	HZ5BLL [45]	LC7101	409P771010	LOW PASS FILTER	A285TC1S-13D 5
D 7001	264P821010	CHIP DIODE	HSW2836				

[45] : VS - 45VA2CA

[50] : VS - 50VA2CA

[60] : VS - 60VA2CA

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
SF101	296P096020	SAW FILTER	SAF45MVK56Z	L 6A3	325C161060	PEAKING COIL	18 μ H-K
SF301	296P092010	SAW FILTER	SAF41MC70Z	L 6A4	325C161060	PEAKING COIL	18 μ H-K
X 701	296P064010	CERAMIC RESONATOR	CSA-4.00MG	L 6A5	325C161060	PEAKING COIL	18 μ H-K
DELAY LINES				L 701	325C121030	PEAKING COIL	10 μ H-K
DL200	337P147020	DELAY LINE		L 702	325C121030	PEAKING COIL	10 μ H-K
DL201	337P147010	DELAY LINE		L 703	325C121060	PEAKING COIL	18 μ H-K
DL202	337P113020	DELAY LINE	100NS	L 707	325C121030	PEAKING COIL	10 μ H-K
DL203	337P134010	DELAY LINE	SDL-4256	L 708	321C010040	RF COIL	1000 μ H-J
COILS				L 711	325C121030	PEAKING COIL	10 μ H-K
	330P164010	DEFLECTION YOKE COIL	RED/BLUE-CRT	L 712	325C121030	PEAKING COIL	10 μ H-K
	330P164020	DEFLECTION YOKE COIL	GREEN-CRT	L 7000	321C031040	RF COIL	10 μ H-K
L 101	325C124030	PEAKING COIL	0.22 μ H-M	L 7001	325C107050	PEAKING COIL	100 μ H-J
L 102	325C124090	PEAKING COIL	0.68 μ H-M	L 7002	325C141030	CHIP COIL	10 μ H-K
L 103	325C120010	PEAKING COIL	1.0 μ H-M	L 7003	325C141030	CHIP COIL	10 μ H-K
L 104	325C121030	PEAKING COIL	10 μ H-K	L 7102	325C141030	CHIP COIL	10 μ H-K
L 105	325C122030	PEAKING COIL	68 μ H-K	L 7103	325C141030	CHIP COIL	10 μ H-K
L 106	323P171010	VIF COIL	45.75MHz	L 7601	325C121030	PEAKING COIL	10 μ H-K
L 107	323P111020	VIF COIL	45MHz	L 7602	325C121030	PEAKING COIL	10 μ H-K
L 108	325C122030	PEAKING COIL	68 μ H-K	L 7603	325C121030	PEAKING COIL	10 μ H-K
L 109	325C120020	PEAKING COIL	1.2 μ H-M	L 77A1	325C121030	PEAKING COIL	10 μ H-K
L 111	325C121030	PEAKING COIL	10 μ H-K	L 7800	325C121030	PEAKING COIL	10 μ H-K
L 117	325C121030	PEAKING COIL	10 μ H-K	L 801	321C031040	RF COIL	10 μ H-K
L 202	325C101030	PEAKING COIL	10 μ H-K	L 805	321C031040	RF COIL	10 μ H-K
L 203	325C121090	PEAKING COIL	33 μ H-K	L 807	351P068030	PEAKING COIL	SBC-03
L 204	325C121030	PEAKING COIL	10 μ H-K	L 808	351P068030	PEAKING COIL	SBC-03
L 205	325C121030	PEAKING COIL	10 μ H-K	L 809	351P068030	PEAKING COIL	SBC-03
L 207	325C121000	PEAKING COIL	5.6 μ H-K	L 810	351P068030	PEAKING COIL	SBC-03
L 212	325C121030	PEAKING COIL	10 μ H-K	L 811	321C031040	RF COIL	10 μ H-K
L 213	325C161000	PEAKING COIL	5.6 μ H-K	L 812	321C031040	RF COIL	10 μ H-K
L 220	325C122040	PEAKING COIL	82 μ H-K	L 814	321C031090	RF COIL	33 μ H-K
L 2N0	325C162090	PEAKING COIL	220 μ H-K	L 815	321C031090	RF COIL	33 μ H-K
L 2N1	325C162090	PEAKING COIL	220 μ H-K	L 900	351P064030	LINE FILTER	SE26TL-40030A
L 2002	325C121030	PEAKING COIL	10 μ H-K	L 9A01	411D009020	FERRITE CORE FILTER	
L 2003	325C121030	PEAKING COIL	10 μ H-K	L 9A02	411P001010	FERRITE LEAD	
L 2004	325C163070	PEAKING COIL	1000 μ H-K	L 9A03	351P070010	FILTER COIL	560 μ H-K
L 2006	325C121030	PEAKING COIL	10 μ H-K	L 9A10	411P001010	FERRITE LEAD	
L 2007	325C121030	PEAKING COIL	10 μ H-K	L 9A12	411P001010	FERRITE LEAD	
L 2009	321C031040	RF COIL	10 μ H-K	LC7102	409P736010	COIL	CLOCK-ADJ 11614
L 303	327P072010	SIF COIL	TKACS-27071BY	LF7000	409P696020	EMI FILTER	BLM41A01
L 3A1	325C122030	PEAKING COIL	68 μ H-K	LF7001	409P402030	EMI FILTER	DSS306-55FZ103N100
L 3A01	325C121030	PEAKING COIL	10 μ H-K	LF7002	409P402020	EMI FILTER	DSS306-55B102M100
L 4A1	321C031090	RF COIL	33 μ H-K	LF7003	409P402020	EMI FILTER	DSS306-55B102M100
L 4A2	321C031090	RF COIL	33 μ H-K	T 101	320P026030	TRAP COIL	
L 4B10	351P068010	PEAKING COIL	SB4-680-122	TRANSFORMERS			
L 500	321C030070	RF COIL	3.3 μ H-K		350P581010	POWER	
L 501	411P001010	FERRITE LEAD		T 201	349P159020	CHROMA-BP	
L 502	411P001010	FERRITE LEAD		T 4B00	349P192010	PCC	TOP-BOTTOM
L 503	333P025040	H-LIN. COIL		T 500	336P009030	H. DRIVE	
L 505	409P565020	FILTER COIL		T 501	334P191010	FLYBACK	
L 506	409P691010	FILTER COIL		T 5000	349P122080	PCC	
L 6A0	325C107020	PEAKING COIL	56 μ H-J	T 9A0	350P580010	POWER	
L 6A1	325C107020	PEAKING COIL	56 μ H-J				
L 6A2	325C107020	PEAKING COIL	56 μ H-J				

[45] : VS - 45VA2CA

[50] : VS - 50VA2CA

[60] : VS - 60VA2CA

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
VARIABLE RESISTORS				VR8C5	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
VR102	127C080040	VR-SEMIFIXED	1/5W B1KΩ-M	VR8C6	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
VR1A1	127C080060	VR-SEMIFIXED	1/5W B3KΩ-M	VR8C7	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
VR204	127C080070	VR-SEMIFIXED	1/5W B5KΩ-M	VR8C8	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
VR205	127C080040	VR-SEMIFIXED	1/5W B1KΩ-M	VR8C9	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
VR3001	127C080070	VR-SEMIFIXED	1/5W B5KΩ-M	VR8D0	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
VR3002	127C080090	VR-SEMIFIXED	1/5W B20KΩ-M	VR8D1	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M
VR3003	127C080070	VR-SEMIFIXED	1/5W B5KΩ-M	VR8E0	127C091010	VR-SEMIFIXED	1/5W B50KΩ-M
VR3004	127C080070	VR-SEMIFIXED	1/5W B5KΩ-M	VR8E1	127C091010	VR-SEMIFIXED	1/5W B50KΩ-M
VR3005	127C081010	VR-SEMIFIXED	1/5W B50KΩ-M	VR8E2	127C091010	VR-SEMIFIXED	1/5W B50KΩ-M
VR400	127C090080	VR-SEMIFIXED	1/5W B10KΩ-M	VR8E3	127C091010	VR-SEMIFIXED	1/5W B50KΩ-M
VR401	127C090090	VR-SEMIFIXED	1/5W B20KΩ-M	VR8501	127C090080	VR-SEMIFIXED	1/5W B10KΩ-M
VR4A00	127C190080	VR-SEMIFIXED	1/5W B10KΩ-M	VR8800	120C330090	VR-PCB	1/20W B5KΩ-20N
VR4A01	127C190080	VR-SEMIFIXED	1/5W B10KΩ-M	VR8801	120C330090	VR-PCB	1/20W B5KΩ-20N
VR4A02	127C190080	VR-SEMIFIXED	1/5W B10KΩ-M	VR8802	120C330090	VR-PCB	1/20W B5KΩ-20N
VR5A0	127C280030	VR-SEMIFIXED	1/10W B500Ω-N	RESISTORS			
VR5A2	127C280060	VR-SEMIFIXED	1/10W B3KΩ-N	R 2F1	103P532070	NETWORK	1/8W 1.5KΩ-JX3
VR5A3	127C280060	VR-SEMIFIXED	1/10W B3KΩ-N	R 2Z9	103P553010	NETWORK	1/8W 3.3KΩ-JX5
VR5000	127C280040	VR-SEMIFIXED	1/10W B1KΩ-N	R 311	103P378040	FUSE	1/4W 2.2Ω-J
VR6A0	127C080010	VR-SEMIFIXED	1/5W B200Ω-M	R 312	103P378040	FUSE	1/4W 2.2Ω-J
VR6A1	127C080010	VR-SEMIFIXED	1/5W B200Ω-M	R 4B52	103P397090	FUSE	1/2W 0.82Ω-J
VR6A2	127C091040	VR-SEMIFIXED	1/5W B300KΩ-M	R 4B53	103P397090	FUSE	1/2W 0.82Ω-J
VR6A3	127C091040	VR-SEMIFIXED	1/5W B300KΩ-M	R 503	109D074030	CEMENT METAL	5W 3.9KΩ-K/J
VR6A4	127C091040	VR-SEMIFIXED	1/5W B300KΩ-M	R 508	103P438050	FUSE METAL	2W 2.7Ω-K/J
VR6A5	129D074010	VR-SEMIFIXED	0.6W-B4M-8S-M	R 509	103P391030	FUSE	1/2W 100Ω-J
VR6A6	129D074010	VR-SEMIFIXED	0.6W-B4M-8S-M	R 510	103P398010	FUSE	1/2W 1.2Ω-J
VR6A7	129D074010	VR-SEMIFIXED	0.6W-B4M-8S-M	R 5008	103P398000	FUSE	1/2W 1.0Ω-J
VR7001	127C090030	VR-SEMIFIXED	1/5W B500Ω-M	R 754	103P603070	NETWORK	1/8W 10KΩ-JX10
VR7002	127C090030	VR-SEMIFIXED	1/5W B500Ω-M	R 700	103P532050	NETWORK	1/8W 1KΩ-JX3
VR8A0	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7001	103P402090	CHIP RESISTOR	1/10W 2.2KΩ-J
VR8A1	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7002	103P401050	CHIP RESISTOR	1/10W 150Ω-J
VR8A2	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7003	103P402090	CHIP RESISTOR	1/10W 2.2KΩ-J
VR8A3	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7004	103P401050	CHIP RESISTOR	1/10W 150Ω-J
VR8A4	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7007	103P402050	CHIP RESISTOR	1/10W 1KΩ-J
VR8A5	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7008	103P473060	CHIP RESISTOR	1/10W 3KΩ-F
VR8A6	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7009	103P402090	CHIP RESISTOR	1/10W 2.2KΩ-J
VR8A7	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7010	103P402060	CHIP RESISTOR	1/10W 1.2KΩ-J
VR8A8	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7011	103P402070	CHIP RESISTOR	1/10W 1.5KΩ-J
VR8A9	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7012	103P403020	CHIP RESISTOR	1/10W 3.9KΩ-J
VR8B0	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7013	103P402090	CHIP RESISTOR	1/10W 2.2KΩ-J
VR8B1	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7014	103P402060	CHIP RESISTOR	1/10W 1.2KΩ-J
VR8B2	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7015	103P402070	CHIP RESISTOR	1/10W 1.5KΩ-J
VR8B3	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7016	103P473000	CHIP RESISTOR	1/10W 1.6KΩ-F
VR8B4	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7019	103P403050	CHIP RESISTOR	1/10W 6.8KΩ-J
VR8B5	127C091000	VR-SEMIFIXED	1/5W B30KΩ-M	R 7020	103P403090	CHIP RESISTOR	1/10W 15KΩ-J
VR8B6	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M	R 7021	103P403090	CHIP RESISTOR	1/10W 15KΩ-J
VR8B7	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M	R 7022	103P403050	CHIP RESISTOR	1/10W 6.8KΩ-J
VR8B8	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M	R 7023	103P402090	CHIP RESISTOR	1/10W 2.2KΩ-J
VR8B9	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M	R 7024	103P402020	CHIP RESISTOR	1/10W 560Ω-J
VR8C0	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M	R 7025	103P404020	CHIP RESISTOR	1/10W 27KΩ-J
VR8C1	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M	R 7026	103P404020	CHIP RESISTOR	1/10W 27KΩ-J
VR8C2	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M	R 7027	103P401050	CHIP RESISTOR	1/10W 150Ω-J
VR8C3	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M	R 7028	103P402090	CHIP RESISTOR	1/10W 2.2KΩ-J
VR8C4	127C080080	VR-SEMIFIXED	1/5W B10KΩ-M	R 7029	103P405070	CHIP RESISTOR	1/10W 470KΩ-J

[45] : VS - 45VA2CA

[50] : VS - 50VA2CA

[60] : VS - 60VA2CA

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 7031	103P409050	CHIP RESISTOR	1/10W 0Ω	R 7134	103P409050	CHIP RESISTOR	1/10W 0Ω [50, 60]
R 7034	103P409050	CHIP RESISTOR	1/10W 0Ω	R 7150	103P479000	CHIP METAL	1/10W 5'0KΩ-F
R 7041	103P473090	CHIP RESISTOR	1/10W 3.9KΩ-F	R 901	109D071020	CEMENT WIRE	15W 2.2Ω-K
R 7042	103P473090	CHIP RESISTOR	1/10W 3.9KΩ-F	R 9A15	102P106080	WIRE	2W 0.1Ω-J
R 7043	103P402050	CHIP RESISTOR	1/10W 1KΩ-J	R 9A16	102P106080	WIRE	2W 0.1Ω-J
R 7044	103P402050	CHIP RESISTOR	1/10W 1KΩ-J	CAPACITORS AND TRIMMERS			
R 7045	103P402050	CHIP RESISTOR	1/10W 1KΩ-J	C 408	189P071050	C-M-PLASTIC-PP	200V 0.33μF-J
R 7046	103P474090	CHIP RESISTOR	1/10W 10KΩ-F	C 4830	189P071090	C-M-PLASTIC-PP	200V 0.27μF-J
R 7047	103P473030	CHIP RESISTOR	1/10W 2.2KΩ-F	C 510	189P071010	C-M-PLASTIC-PP	200V 0.56μF-J
R 7048	103P402050	CHIP RESISTOR	1/10W 1KΩ-J	C 511	189P071070	C-M-PLASTIC-PP	200V 0.39μF-J
R 7049	103P403030	CHIP RESISTOR	1/10W 4.7KΩ-J	C 512	189P071080	C-M-PLASTIC-PP	200V 0.47μF-J
R 7060	103P475040	CHIP RESISTOR	1/10W 16KΩ-F	C 513	189P071010	C-M-PLASTIC-PP	200V 0.56μF-J
R 7061	103P475040	CHIP RESISTOR	1/10W 16KΩ-F	C 515	189P072020	C-M-POLYESTER	1600V 0.1μF-K
R 7062	103P402050	CHIP RESISTOR	1/10W 1KΩ-J	C 520	189P071040	C-M-PLASTIC-PP	200V 0.12μF-J
R 7063	103P475090	CHIP RESISTOR	1/10W 27KΩ-F	C 532	189P071050	C-M-PLASTIC-PP	200V 0.33μF-J
R 7064	103P475040	CHIP RESISTOR	1/10W 16KΩ-F	C 716	149D811030	CR-MULTIPLE	50V 10000PFX4
R 7065	103P402050	CHIP RESISTOR	1/10W 1KΩ-J	C 7001	181P504090	CHIP CAPACITOR	35V 4.7μF-M
R 7066	103P475040	CHIP RESISTOR	1/10W 16KΩ-F	C 7002	141P133080	CHIP CAPACITOR	F50V 0.01μF-Z
R 7067	103P475040	CHIP RESISTOR	1/10W 16KΩ-F	C 7003	141P133080	CHIP CAPACITOR	F50V 0.01μF-Z
R 7068	103P471060	CHIP RESISTOR	1/10W 430Ω-F	C 7004	141P133090	CHIP CAPACITOR	F50V 0.022μF-Z
R 7070	103P402050	CHIP RESISTOR	1/10W 1KΩ-J	C 7006	141P133090	CHIP CAPACITOR	F50V 0.022μF-Z
R 7071	103P402050	CHIP RESISTOR	1/10W 1KΩ-J	C 7007	181P522030	CHIP ELECTROLYTIC-C	16V 10μF-M
R 7072	103P402010	CHIP RESISTOR	1/10W 470Ω-J	C 7009	154P324000	CHIP CAPACITOR	SL50V 150pF-J
R 7073	103P402050	CHIP RESISTOR	1/10W 1KΩ-J	C 7010	141P137060	CHIP CAPACITOR	B50V 0.033μF-K
R 7074	103P402050	CHIP RESISTOR	1/10W 1KΩ-J	C 7011	181P506020	CHIP CAPACITOR	50V 2.2μF-M
R 7075	103P402010	CHIP RESISTOR	1/10W 470Ω-J	C 7012	141P133080	CHIP CAPACITOR	F50V 0.01μF-Z
R 7080	103P472060	CHIP RESISTOR	1/10W 1.1KΩ-F	C 7014	181P522060	CHIP ELECTROLYTIC-C	16V 47μF-M
R 7081	103P401030	CHIP RESISTOR	1/10W 100Ω-J	C 7015	181P500010	CHIP CAPACITOR	6.3V 22μF-M
R 7082	103P474030	CHIP RESISTOR	1/10W 5.6KΩ-F	C 7016	181P526010	CHIP CAPACITOR	50V 1μF-M
R 7083	103P472000	CHIP RESISTOR	1/10W 620Ω-F	C 7017	141P133090	CHIP CAPACITOR	F50V 0.022μF-Z
R 7084	103P409050	CHIP RESISTOR	1/10W 0Ω	C 7018	141P133080	CHIP CAPACITOR	F50V 0.01μF-Z
R 7085	103P476010	CHIP RESISTOR	1/10W 33KΩ-F	C 7020	181P526020	CHIP ELECTROLYTIC-C	04W 50V 2.2μF-M
R 7086	103P476060	CHIP METAL	1/10W 51KΩ-F	C 7021	181P522030	CHIP ELECTROLYTIC-C	16V 10μF-M
R 7087	103P401070	CHIP RESISTOR	1/10W 220Ω-J	C 7022	141P133090	CHIP CAPACITOR	F50V 0.022μF-Z
R 7088	103P401070	CHIP RESISTOR	1/10W 220Ω-J	C 7023	181P502030	CHIP CAPACITOR	16V 10μF-M
R 7100	103P409050	CHIP RESISTOR	1/10W 0Ω	C 7024	141P133080	CHIP CAPACITOR	F50V 0.01μF-Z
R 7102	103P403070	CHIP RESISTOR	1/10W 10KΩ-J	C 7025	154P322000	CHIP CAPACITOR	SL50V 22pF-J
R 7103	103P402070	CHIP RESISTOR	1/10W 1.5KΩ-J	C 7026	181P504090	CHIP CAPACITOR	35V 4.7μF-M
R 7104	103P402070	CHIP RESISTOR	1/10W 1.5KΩ-J	C 7027	181P506020	CHIP CAPACITOR	50V 2.2μF-M
R 7105	103P403050	CHIP RESISTOR	1/10W 6.8KΩ-J	C 7028	181P506000	CHIP CAPACITOR	50V 0.47μF-M
R 7106	103P403020	CHIP RESISTOR	1/10W 3.9KΩ-J	C 7029	181P506000	CHIP CAPACITOR	50V 0.47μF-M
R 7107	103P402020	CHIP RESISTOR	1/10W 560Ω-J	C 7030	141P131010	CHIP CAPACITOR	B50V 1500pF-K
R 7108	103P403020	CHIP RESISTOR	1/10W 3.9KΩ-J	C 7031	181P528030	CHIP ELECTROLYTIC-C	50V 0.22μF-M
R 7109	103P402020	CHIP RESISTOR	1/10W 560Ω-J	C 7032	181P520040	CHIP ELECTROLYTIC-C	6.3V 100μF-M
R 7111	103P406010	CHIP RESISTOR	1/10W 1MΩ-J	C 7033	141P133090	CHIP CAPACITOR	F50V 0.022μF-Z
R 7112	103P406010	CHIP RESISTOR	1/10W 1MΩ-J	C 7034	181P528030	CHIP ELECTROLYTIC-C	50V 0.22μF-M
R 7123	103P409050	CHIP RESISTOR	1/10W 0Ω	C 7035	141P130090	CHIP CAPACITOR	B50V 1000pF-K
R 7124	103P409050	CHIP RESISTOR	1/10W 0Ω	C 7036	181P524090	CHIP CAPACITOR	35V 4.7μF-M
R 7125	103P409050	CHIP RESISTOR	1/10W 0Ω	C 7037	141P133090	CHIP CAPACITOR	F50V 0.022μF-Z
R 7126	103P409050	CHIP RESISTOR	1/10W 0Ω	C 7038	181P500010	CHIP CAPACITOR	6.3V 22μF-M
R 7127	103P409050	CHIP RESISTOR	1/10W 0Ω	C 7039	154P322020	CHIP CAPACITOR	SL50V 27pF-J
R 7128	103P409050	CHIP RESISTOR	1/10W 0Ω	C 7041	141P133080	CHIP CAPACITOR	F50V 0.01μF-Z
R 7129	103P409050	CHIP RESISTOR	1/10W 0Ω	C 7042	141P133080	CHIP CAPACITOR	F50V 0.01μF-Z
R 7130	103P409050	CHIP RESISTOR	1/10W 0Ω	C 7046	154P332090	CHIP CAPACITOR	CH50V 56pF-J
R 7131	103P409050	CHIP RESISTOR	1/10W 0Ω				

[45] : VS - 45VA2CA

[50] : VS - 50VA2CA

[60] : VS - 60VA2CA

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 7047	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z	S 7810	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7050	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z	S 7811	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7051	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z	S 7812	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7052	181P506010	CHIP CAPACITOR	04W 50V 1 μ F-M	S 7813	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7053	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z	S 7814	432P100010	KEY BOARD SWITCH	1-1 H=4.3
C 7054	154P324080	CHIP CAPACITOR	SL50V 330pF-J	S 7815	432P100030	KEY BOARD SWITCH	1-1 H=7
C 7055	154P324080	CHIP CAPACITOR	SL50V 330pF-J			MISCELLANEOUS	
C 7060	141P133090	CHIP CAPACITOR	F50V 0.022 μ F-Z	462P004020	A-MAGNET ASSY		
C 7101	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	462P035010	MAGNET ASSY	RED/BLUE-CRT	
C 7102	154P323060	CHIP CAPACITOR	SL50V 100pF-J	462P035020	MAGNET ASSY	GREEN-CRT	
C 7103	181P502030	CHIP CAPACITOR	16V 10 μ F-M	462P035030	MAGNET ASSY		
C 7104	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	453B011040	ANODE CAP		
C 7105	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	767D038020	MIRROR		[45]
C 7106	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	767D028070	MIRROR		[50]
C 7107	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	767D039010	MIRROR		[60]
C 7108	181P500010	CHIP CAPACITOR	6.3V 22 μ F-M	449C026020	CRT SOCKET		
C 7109	181P500010	CHIP CAPACITOR	6.3V 22 μ F-M	AG6A0	224D019090	AIR GAP	1.5KV
C 7110	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	AG6A1	224D019090	AIR GAP	1.5KV
C 7111	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	AG6A2	224D019090	AIR GAP	1.5KV
C 7112	141P137040	CHIP CAPACITOR	B25V 0.022 μ F-K	AG6A3	224D019090	AIR GAP	1.5KV
C 7113	141P137040	CHIP CAPACITOR	B25V 0.022 μ F-K	AG6A4	224D019090	AIR GAP	1.5KV
C 7114	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	AG6A5	224D019090	AIR GAP	1.5KV
C 7115	141P133090	CHIP CAPACITOR	F50V 0.022 μ F-Z	AG6A6	224D019040	AIR GAP	2KV
C 7116	141P133090	CHIP CAPACITOR	F50V 0.022 μ F-Z	AG6A7	224D019040	AIR GAP	2KV
C 7117	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	AG6A8	224D019040	AIR GAP	2KV
C 7118	141P133080	CHIP CAPACITOR	F50V 0.01 μ F-Z	F 900	283D060020	FUSE	S5A
C 7119	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	F 901	283D038070	FUSE	S4A
C 7120	181P504090	CHIP CAPACITOR	35V 4.7 μ F-M	F 920	283D038060	FUSE	S2A
C 7121	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	F 9A0	283D038070	FUSE	S4A
C 7122	181P500010	CHIP CAPACITOR	6.3V 22 μ F-M	K 3Z1	287P073010	POWER RELAY	VB-12TKU-526-UL3
C 7123	181P500010	CHIP CAPACITOR	6.3V 22 μ F-M	K 3Z2	287P060010	POWER RELAY	DH12D2-0S(M)
C 7124	181P500010	CHIP CAPACITOR	6.3V 22 μ F-M	K 900	287P049020	POWER RELAY	DG12D1-0(M)-L
C 7126	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	K 901	287P049020	POWER RELAY	DG12D1-0(M)-L
C 7127	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	PC9A0	268P033010	PHOTO COUPLER	ON3161-R
C 7128	141P139030	CHIP CAPACITOR	B25V 0.1 μ F-K	PJ3A01	440B095010	TERMINAL JACK	
C 7129	181P520040	CHIP ELECTROLYTIC-C	6.3V 100 μ F-M	PJ3A01	440B095030	TERMINAL BOARD	PINX13+D1N
C 7131	154P324020	CHIP CAPACITOR	SL50V 180pF-J	PJ3A02	440C189010	SPEAKER TERMINAL	(+)X2&(-)X2
C 909	185D063080	ELECTROLYTIC-C	H200V 820 μ F-M 105C	PJ79A0	440C181010	JACK BOARD	PINX3 & DINX1
C 923	185D057020	ELECTROLYTIC-C	H50V 6800 μ F-M	RT500	265P090050	THERMISTOR	NTH5D102KA
C 927	185D054060	ELECTROLYTIC-C	H35V 4700 μ F-M	RT501	265P090050	THERMISTOR	NTH5D102KA
C 9A08	185D063020	ELECTROLYTIC-C	H180V 470 μ F-M 105C	RT502	265P090050	THERMISTOR	NTH5D102KA
C 9A20	185D063030	ELECTROLYTIC-C	H180V 820 μ F-M 105C	RT5D0	265P090050	THERMISTOR	NTH5D102KA
VC731	202P109040	TRIMMER CAPACITOR	7.3pF-45pF	RV900	265P086010	VARISTOR	SNR-271KD10
		SWITCHES		SP391	480P655010	SPEAKER	181P05M6910
S 7800	432P100010	KEY BOARD SWITCH	1-1 H=4.3	SP392	480P233010	SPEAKER	E040PX474M69
S 7801	432P100010	KEY BOARD SWITCH	1-1 H=4.3	SP393	480P655010	SPEAKER	181P05M6910
S 7802	432P100010	KEY BOARD SWITCH	1-1 H=4.3	SP394	480P233010	SPEAKER	E040PX474M69
S 7803	432P100010	KEY BOARD SWITCH	1-1 H=4.3	TU101	295P266040	TUNER	ENV568D6G3
S 7804	432P100010	KEY BOARD SWITCH	1-1 H=4.3	X 201	285P029050	CRYSTAL RESONATOR	3.5795MHz
S 7805	432P100010	KEY BOARD SWITCH	1-1 H=4.3	X 202	285P015010	CRYSTAL RESONATOR	3.57955MHz
S 7806	432P100010	KEY BOARD SWITCH	1-1 H=4.3	X 7001	285P066010	CRYSTAL RESONATOR	3.5795MHz
S 7807	432P100010	KEY BOARD SWITCH	1-1 H=4.3	Z 7706	939P296090	PREAMP UNIT	HC-437M
S 7808	432P100010	KEY BOARD SWITCH	1-1 H=4.3	Z 9A01	283P030090	FUSE	SSFR 4A
S 7809	432P100010	KEY BOARD SWITCH	1-1 H=4.3				

[45] : VS - 45VA2CA

[50] : VS - 50VA2CA

[60] : VS - 60VA2CA

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
Z 9A02	283P030090	FUSE	SSFR 4A				
		PRINTED CIRCUIT BOARD ASSY'S					
	935D156001	CONTROL PCB ASSY			700C147090	BACK COVER	[50]
	935C438002	CONV PCB ASSY	[45]		700C148010	BACK COVER	[45]
	935C438001	CONV PCB ASSY	[50]		700C147080	BACK COVER	[50]
	935C438004	CONV PCB ASSY	[60]		700C147020	BACK COVER	[60]
	935C440001	CRT PCB ASSY			702C991010	SIDE PANEL	[60]
	935D157001	DISPLAY PCB ASSY	[45, 50]		702C991020	SIDE PANEL	[60]
	935D167001	DISPLAY PCB ASSY	[60]		700C134090	BACK BOARD	[60]
	935D154001	FRONT PCB ASSY			740B153010	BAFFLE BOARD ASSY	[45]
	935D153001	FS PCB ASSY			740B152010	BAFFLE BOARD ASSY	[50]
	935C437004	MAIN PCB ASSY	[45]		975C125011	BAFFLE BOARD ASSY	[60]
	935C437003	MAIN PCB ASSY	[50]		702A355020	TERMINAL BOARD	[45]
	935C437007	MAIN PCB ASSY	[60]		702A355010	TERMINAL BOARD	[50, 60]
	935C442002	PCC PCB ASSY	[45]		589D042030	CASTER	[45, 50]
	935C442001	PCC PCB ASSY	[50]		589C017010	CASTER	[60]
	935C442004	PCC PCB ASSY	[60]		540C015010	LEAD CLAMPER	
	9308552003	PIP PCB ASSY			641D173010	CLIP	AC-POWER-CORDE
	935C439002	POWER SUB PCB ASSY			621D840010	SCREEN CLIP	UP/DOWN [60]
	935D155001	PREAMP PCB ASSY			621D840070	SCREEN CLIP	SIDE-L/R [60]
	935D162002	SIDE PCC PCB ASSY	[45]		761C273010	DOOR CATCH	[45, 50]
	935D162001	SIDE PCC PCB ASSY	[50]		761C437010	DOOR CATCH	[60]
	935D162004	SIDE PCC PCB ASSY	[60]		702B712030	CONTROL DOOR ASSY	[45]
	935C441004	SIGNAL PCB ASSY	[45]		702B737010	CONTROL DOOR ASSY	[50]
	935C441003	SIGNAL PCB ASSY	[50, 60]		702C837000	CONTROL DOOR ASSY	[60]
	935D152002	TERMINAL PCB ASSY	[45]		771D090010	FOOT	(S) [45, 50]
	935D152001	TERMINAL PCB ASSY	[50, 60]		491P004050	FRESNEL LENS	[45]
		MECHANICAL PARTS			491P009020	FRESNEL LENS	[50]
	669D171080	SCREW	M4X25 0.7 [45, 50]		491P016030	FRESNEL LENS	[60]
	669D204060	SCREW	M4X16 [45, 60]		702B826010	FRONT UNIT	[60]
	669D130050	SCREW	4X20 BLACK [45, 50]		761A093010	SPEAKER GRILLE	[45]
	669D140070	SCREW	4X16 [60]		761A092010	SPEAKER GRILLE	[50]
	669D220030	SCREW	3X10 46LA005		740B159010	SPEAKER GRILLE	[60]
	669D220040	SCREW	3X12 46LA005		734D417020	PUSH KNOB	
	669D220060	SCREW	3X16 46LA005		491P006090	LENTICULAR SCREEN	[45]
	669D221040	SCREW	4X12 46LA005		491P010080	LENTICULAR SCREEN	[50]
	669D221080	SCREW	4X25 46LA005		491P015050	LENTICULAR SCREEN	[60]
	669D220020	SCREW	3X8 46LA005 [50, 60]		440C176080	TERMINAL BOARD	ANTENNA
	669D221060	SCREW	4X16 46LA005 [60]			PACKING PARTS AND ACCESSORY	
	669D212010	SCREW	3X12		1	802B392050	PACKING CASE SLEEVE [45]
	669D222040	SCREW	3X12		1	802B390060	PACKING CASE SLEEVE [50]
	683D010050	WASHER	104512		1	803B695010	CUSHION TOP L+R [60]
		COSMETIC PARTS			2	803B692010	CUSHION TOP [45, 50]
	246C160010	AC POWER CORD			2	802B315020	PACKING CASE BOTTOM [60]
	975D045090	CABINET ASSY	[45]		3	802B392030	PACKING CASE REAR-CORNER [45]
	975D045080	CABINET ASSY	[50]		3	802B390030	PACKING CASE REAR-CORNER [50]
	975D045070	CABINET ASSY	[60]		3	802B315080	PACKING CASE SLEEVE [60]
	702B825090	FRONT PANEL	[60]		4	802B392020	PACKING CASE BOTTOM [45]
	975B064019	FRAME SCREEN ASSY	[45]		4	802B390020	PACKING CASE BOTTOM [50]
	975B064017	FRAME SCREEN ASSY	[50]		4	802B315070	PACKING CASE SIDE-L [60]
	975B071010	FRAME SCREEN ASSY	[60]		5	831C060040	PACKING BAG 1900X2200X2.0 [45, 50]
	702C949030	TRAY ASSY	[45, 50]		5	802B315060	PACKING CASE SIDE-R [60]
	700C148020	BACK COVER	[45]		6	829C045020	PACKING SHEET [45, 50]
					6	831C060060	PACKING BAG 2500X2300X2.0 [60]
					7	829D126090	PACKING SHEET 2600X600X.5 [45, 50]

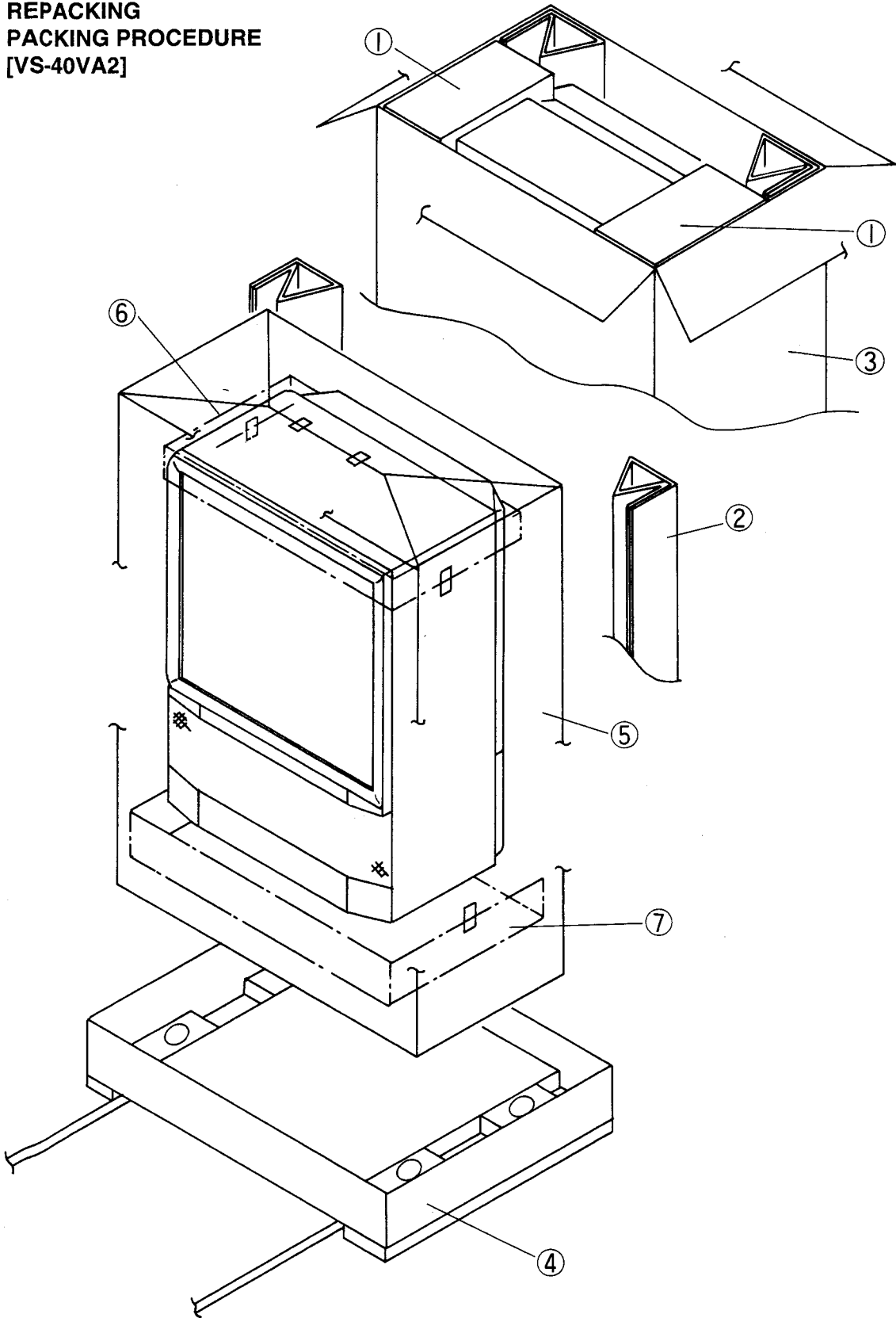
[45] : VS - 45VA2CA

[50] : VS - 50VA2CA

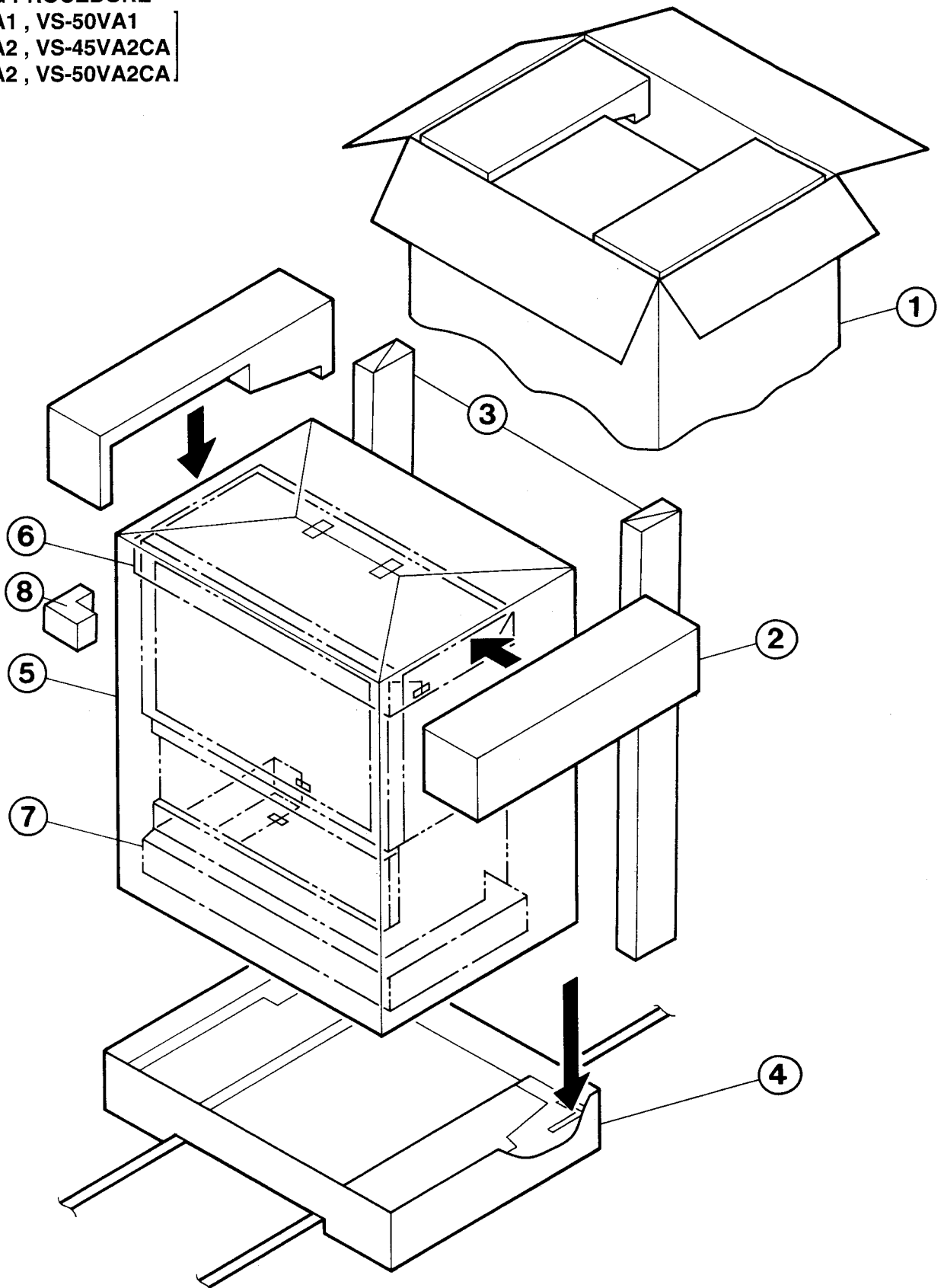
[60] : VS - 60VA2CA

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION		SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
7	829C047010	PACKING SHEET	TOP	[60]				
8	802B390040	PACKING CASE	FRONT-CORNER	[50]				
8	829D126030	PACKING SHEET	BOTTOM	[60]				
	871D159030	INSTRUCTION BOOK						
	871D159040	INSTRUCTION BOOK		[45]				
	871D159050	INSTRUCTION BOOK		[60]				
	939P434030	REMOTE HAND UNIT						
OTHER CRITICAL COMPONENTS								
C 506	172P170090	C-M-PLASTIC-PP	1600V 4700pF-J					
C 507	172P171000	C-M-PLASTIC-PP	1600V 5600pF-J					
C 508	172P085060	C-PLASTIC-PP	400V 0.033 μ F-J					
C 509	189P177020	C-M-PLASTIC-PP	400V 0.015 μ F-J					
C 900	189P033050	C-M-MF/PP-AC	AC125V/250V 0.1 μ F-M					
C 901	189P136080	C-CERAMIC-AC	B VA1 2200pF-M					
C 902	189P136080	C-CERAMIC-AC	B VA1 2200pF-M					
C 903	189P033040	C-M-MF/PP-AC	AC125V/250V 0.047 μ F-M					
C 904	189P136080	C-CERAMIC-AC	B VA1 2200pF-M					
C 905	189P136080	C-CERAMIC-AC	B VA1 2200pF-M					
C 906	189P136080	C-CERAMIC-AC	B VA1 2200pF-M					
C 907	189P136080	C-CERAMIC-AC	B VA1 2200pF-M					
C 9A30	189P033070	C-M-MF/PP-AC	AC125V/250V 4700pF-M					
C 9A31	189P033070	C-M-MF/PP-AC	AC125V/250V 4700pF-M					
R 900	109D031080	R-COMPOSITION	1/2W 820K Ω -K					

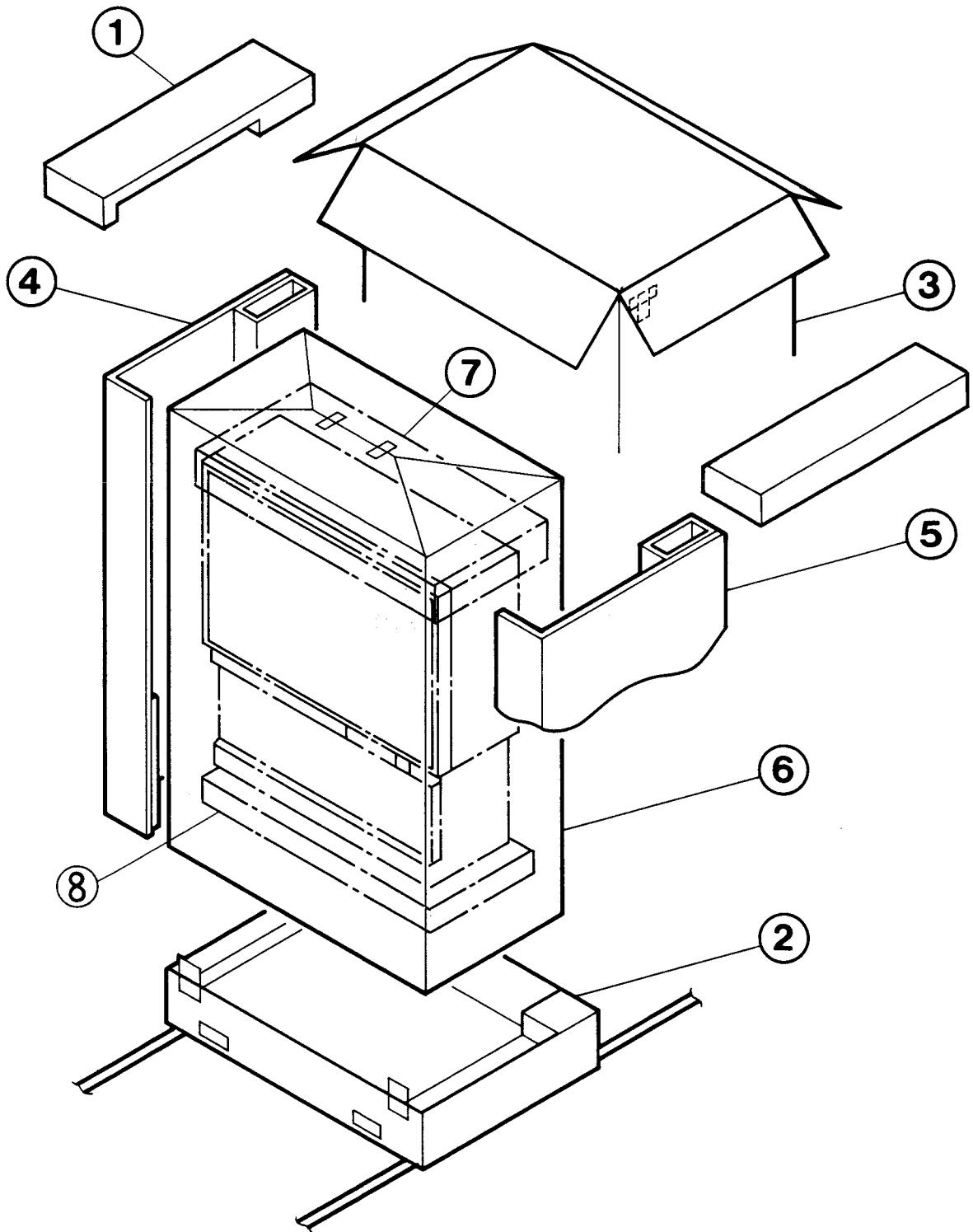
**REPACKING
PACKING PROCEDURE
[VS-40VA2]**



**REPACKING
PACKING PROCEDURE**
[VS-40VA1 , VS-50VA1
VS-45VA2 , VS-45VA2CA
VS-50VA2 , VS-50VA2CA]



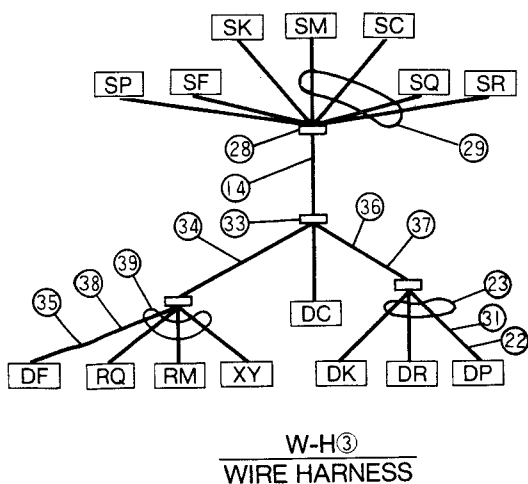
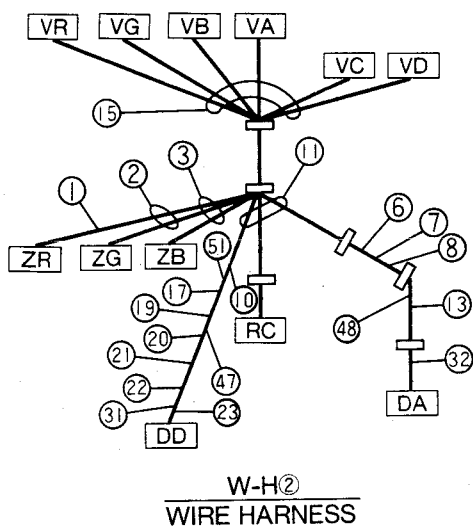
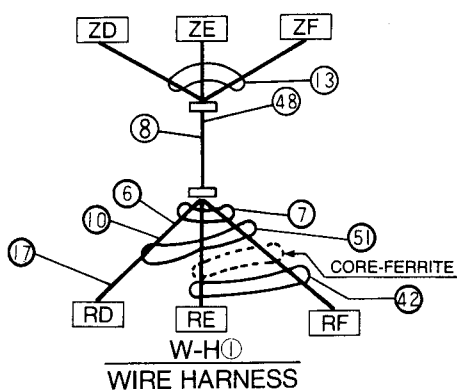
**REPACKING
PACKING PROCEDURE**
[VS-60VA2
VS-60VA2CA]



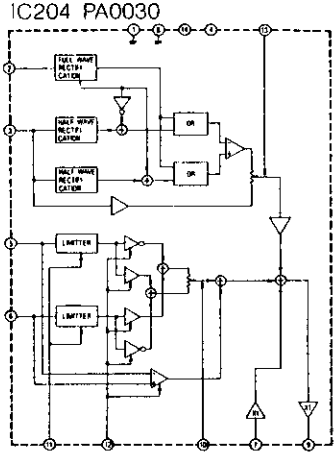
[MEMO]

CLAMPER LIST FOR CONNECTOR LEAD

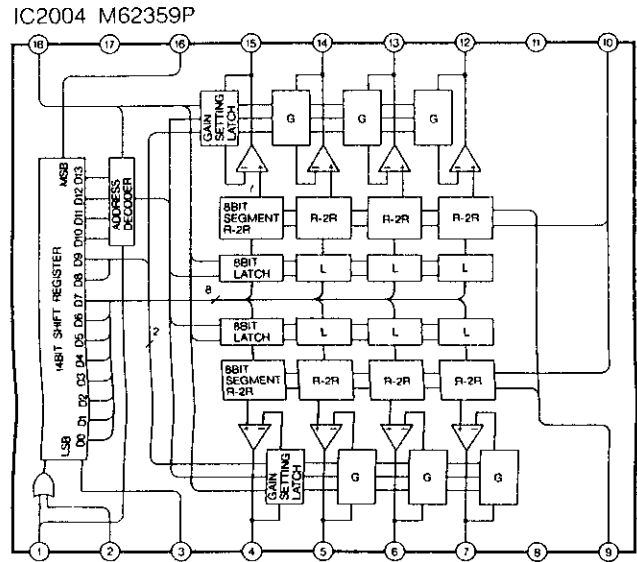
CONNECTOR LEAD	CLAMPER No.	CONNECTOR LEAD	
W-H ①	RD	17-51-10-6-7-8-48-13	ZE (to FD)
	RE	42-CORE-FERRITE-51-7-8-48-13	ZE (to FE)
	RF	42-CORE-FERRITE-51-7-8-48-13	ZF (to CF)
W-H ②	VA	15-11-6-7-8-48-13-32	DA
	VB	15-3	ZB (to F-Mg(B))
	VC	15-11	RC
	VD	15-11-10-51-17-19-47-20-21-22-31-23	DD
	VG	15-3-2	ZG (to F-Mg(G))
	VR	15-3-2-1	ZR (to F-Mg(R))
W-H ③	DC	33-14-28-29	SC
	DF	35-38-39-34-33-14-28	SF
		35-38-39	XY
	DK	23-37-36-33-14-28	SK
	DP	22-31-23-37-36-33-14-28	SP
	DR	23-37-36-33-14-28-29	SR
	RM	39-34-33-14-28-29	SM
RQ	39-34-33-14-28-29	SQ	
ANODE LEAD	4-9 (45", 50", 60")	F.B.T.	
	4-53-9 (40")		
AN	13-48-8-7-51-CORE-FERRITE-42	RN	
DJ	31-22-21-20-47-19-17-18	RJ	
PA	25-24-24-25-25	TRANS	
PB	25-24-30	DB	
PC	27-26-26-27	TRANS	
PG	21-41	RG	
PK	21-20-47-19-17-18	RK	
	21-20-21-41	RL	
PZ	21-22-31-23	DZ	
RA	17-18	PCB-SIGNAL	
RH	40-38 (40") 50-40-38 (45", 50", 60")	DH	
RP	12	EP	
SA	28	CRT(R)	
	43	CRT(G)	
	44	CRT(B)	
VU	16-15-3-2-1	SUB-DY(R)	
VY	16-15-3	SUB-DY(B)	
R-DY	38-50-45-5 (45", 50", 60")	CRT(R)	
	38-54-53-52-54-38-54-52 (40")		
G-DY	38-50-45-5 (45", 50", 60")	CRT(G)	
	38-54-53-52-54-52 (40")		
B-DY	38-50-45-50-38-50-45-5 (45", 50", 60")	CRT(B)	
	38-54-53-52-54-52-5 (40")		



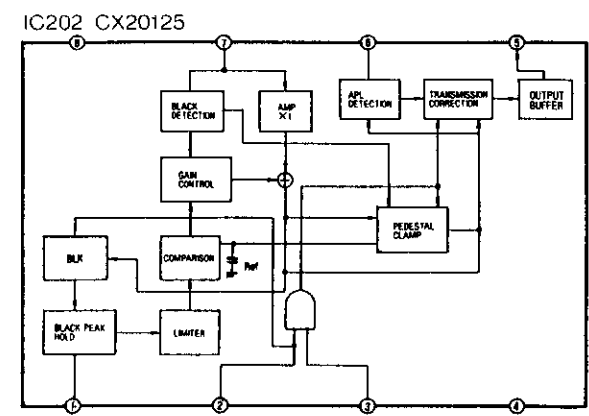
A



B



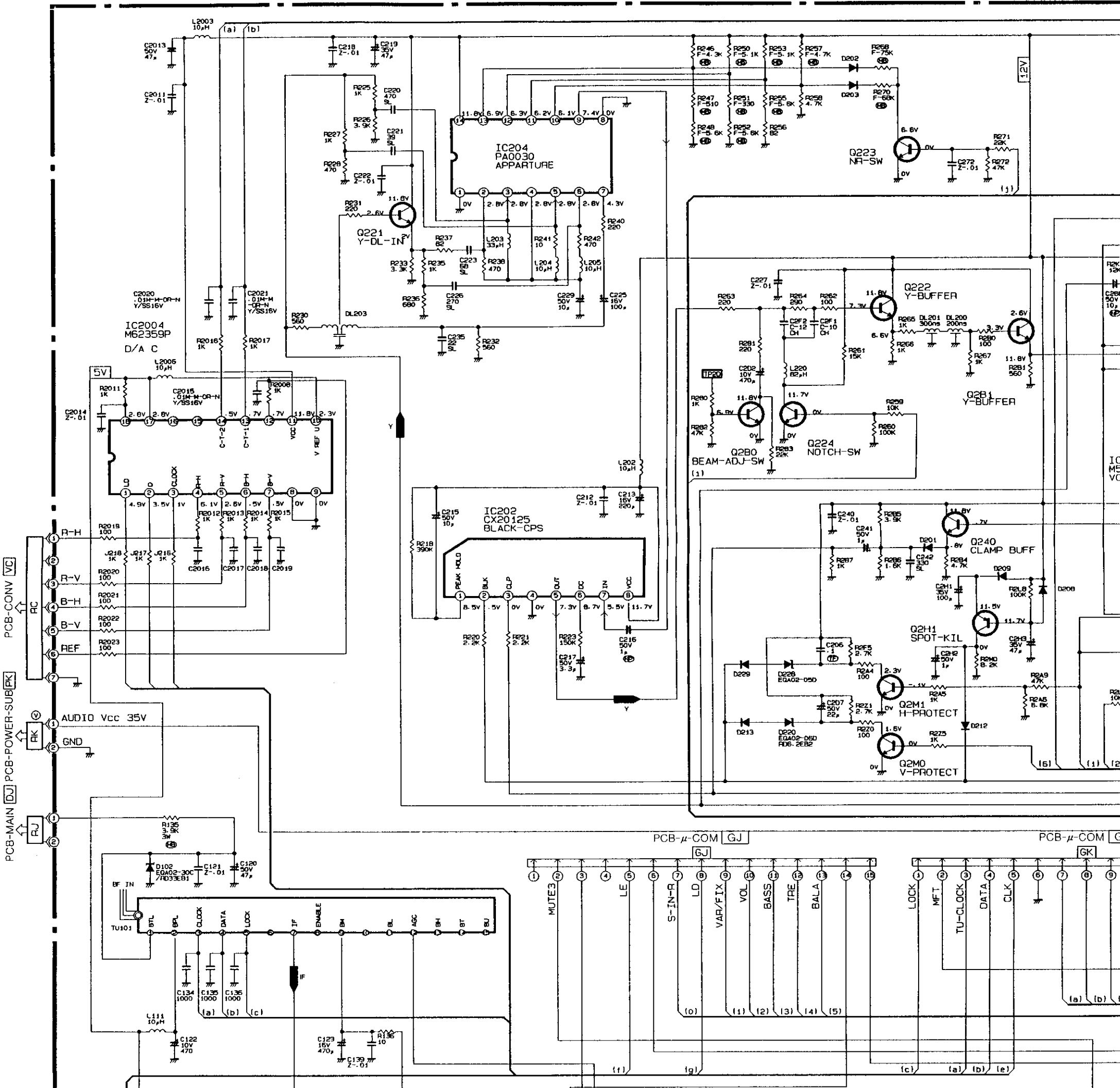
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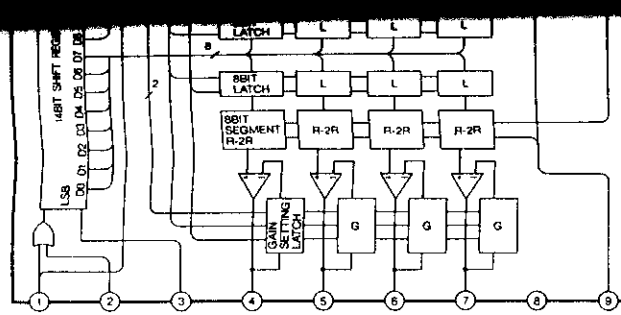


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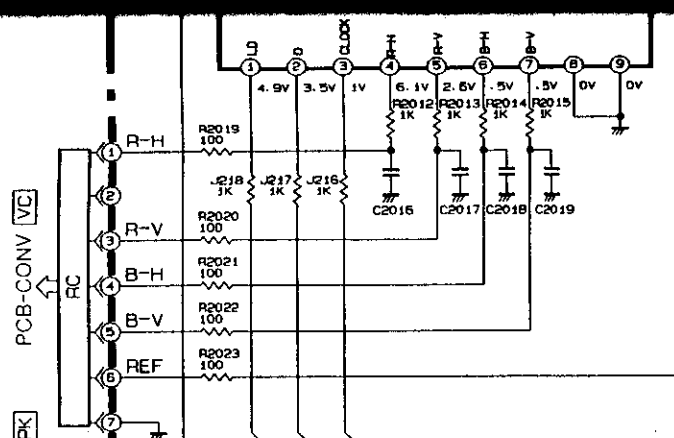
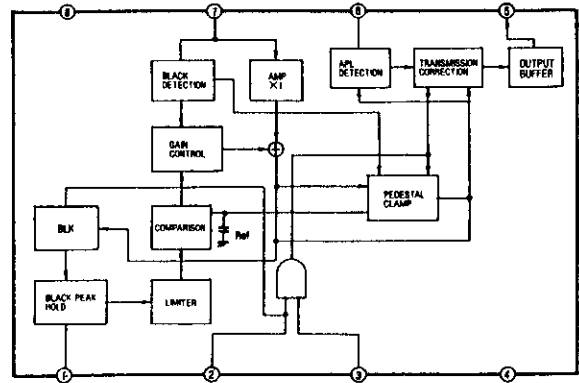
E

F

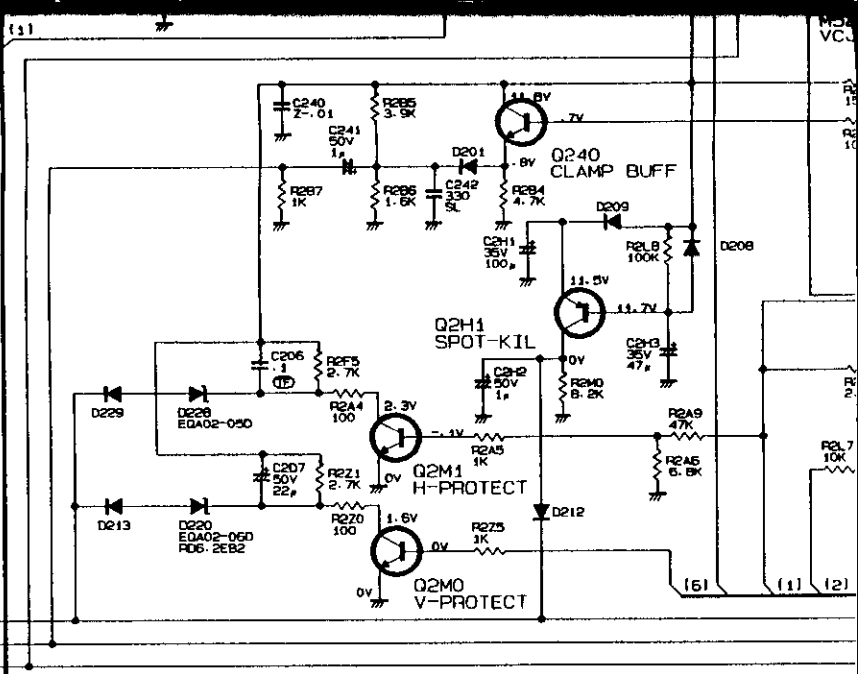
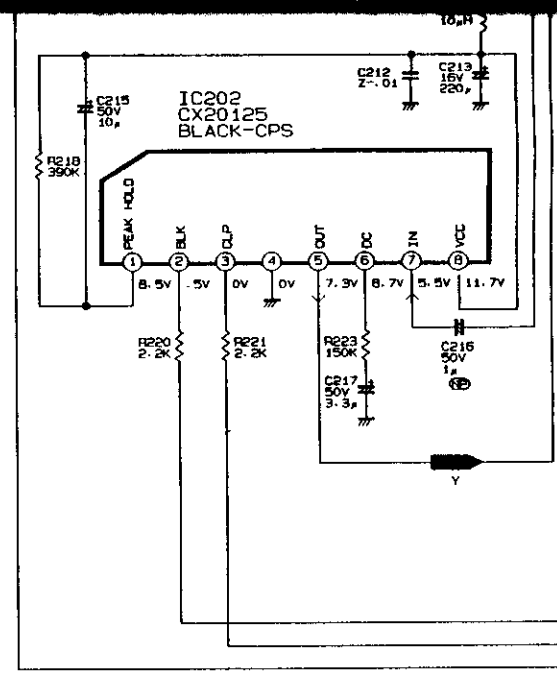
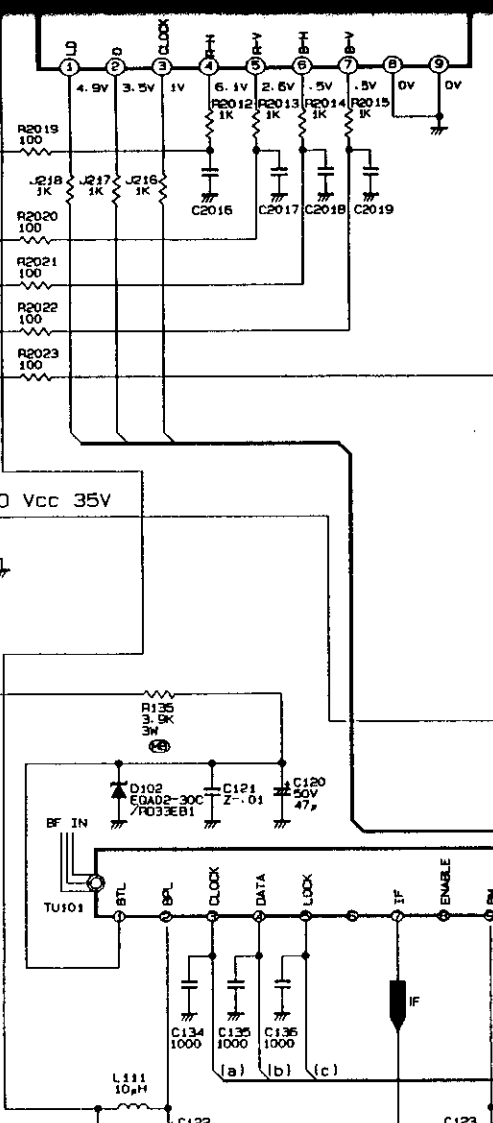




IC202 CX20125

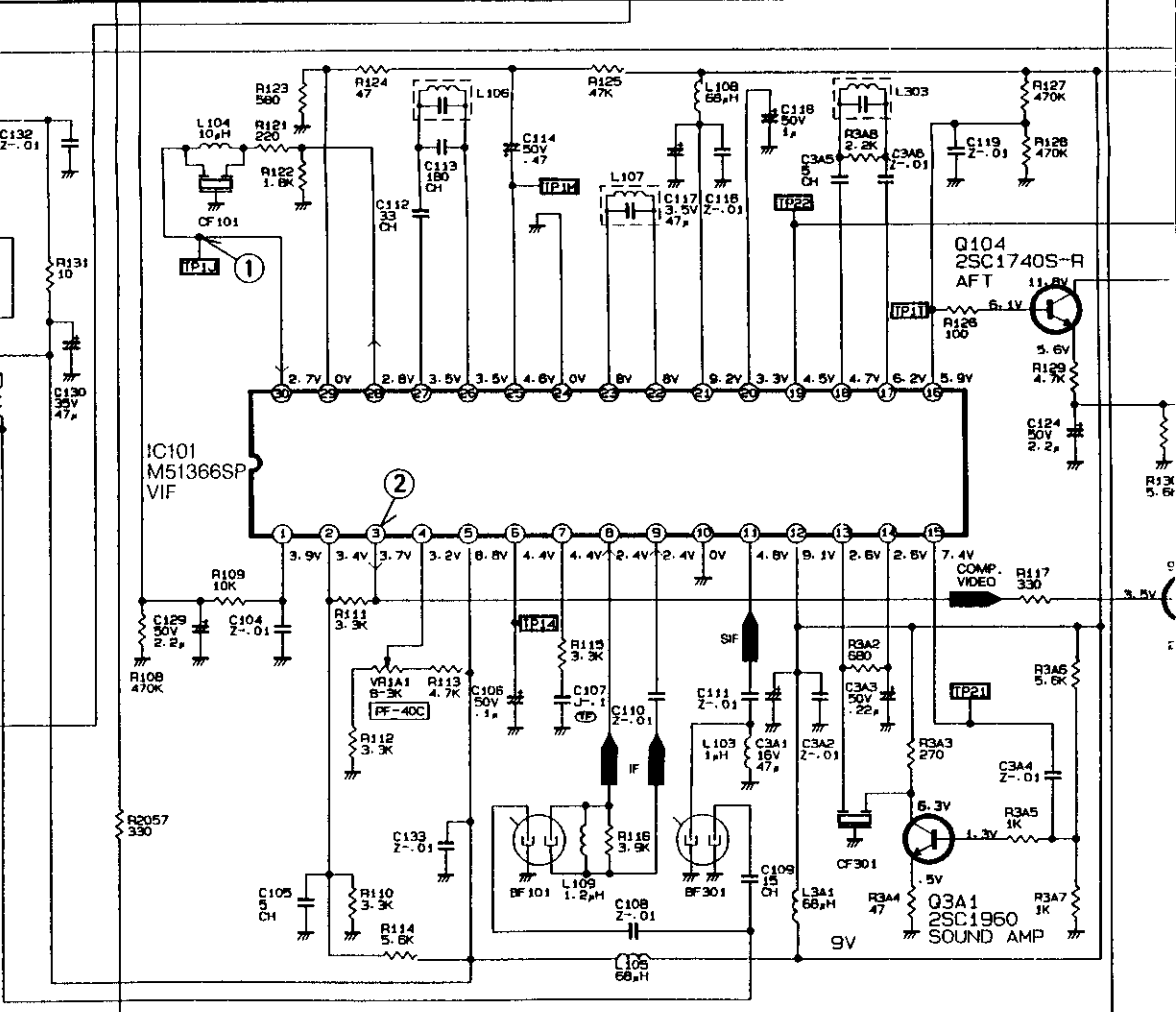
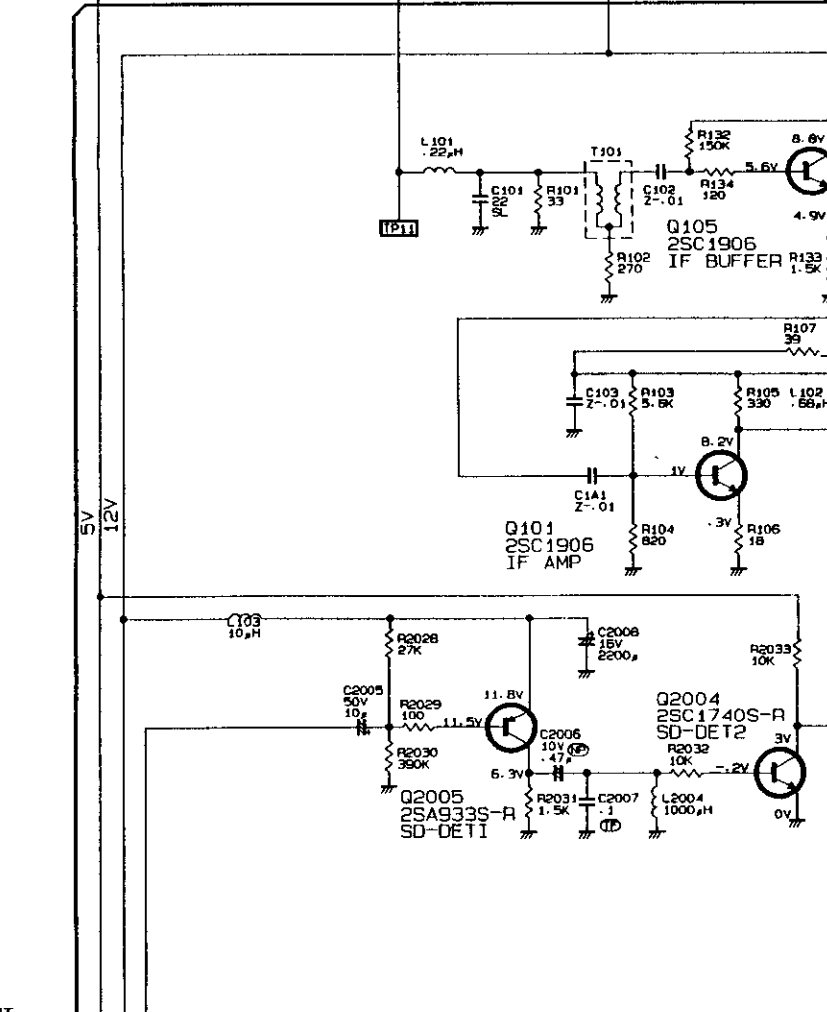
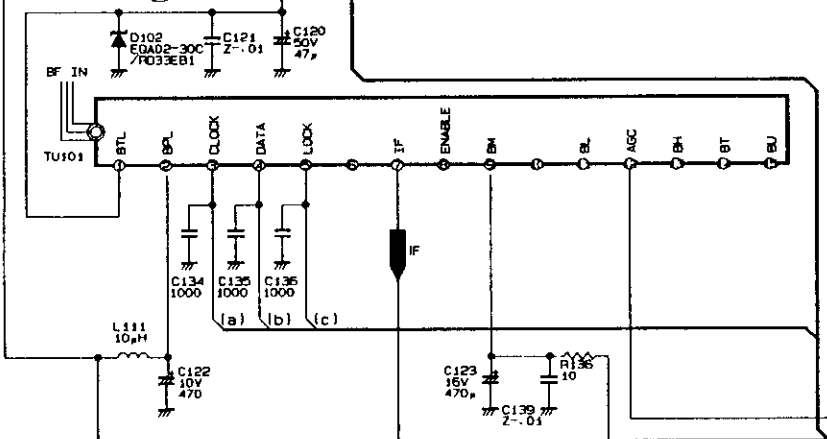


PCB-MAIN [D] PCB-POWER-SUB [PK] PCB-CONV [VC]



PCB-μ-COM [GJ]

PCB-μ-COM [GK]



D

F

F

G

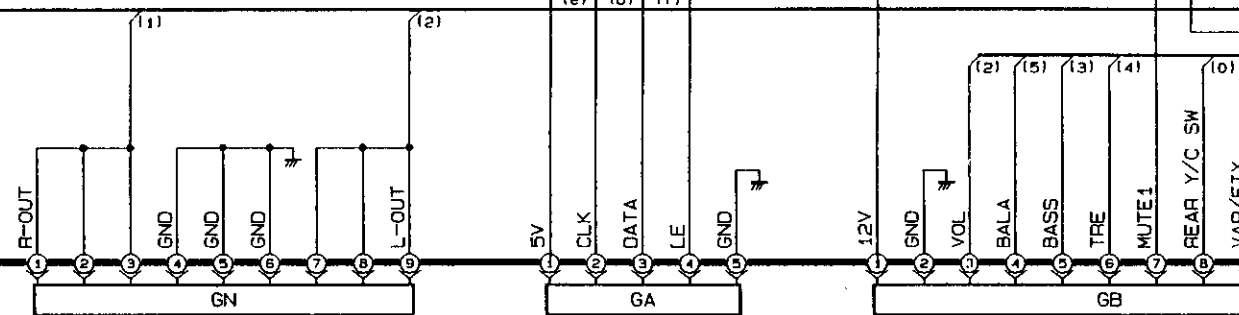
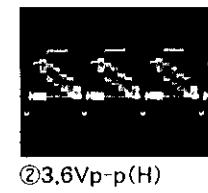
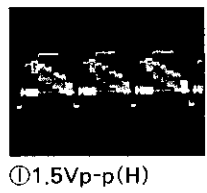
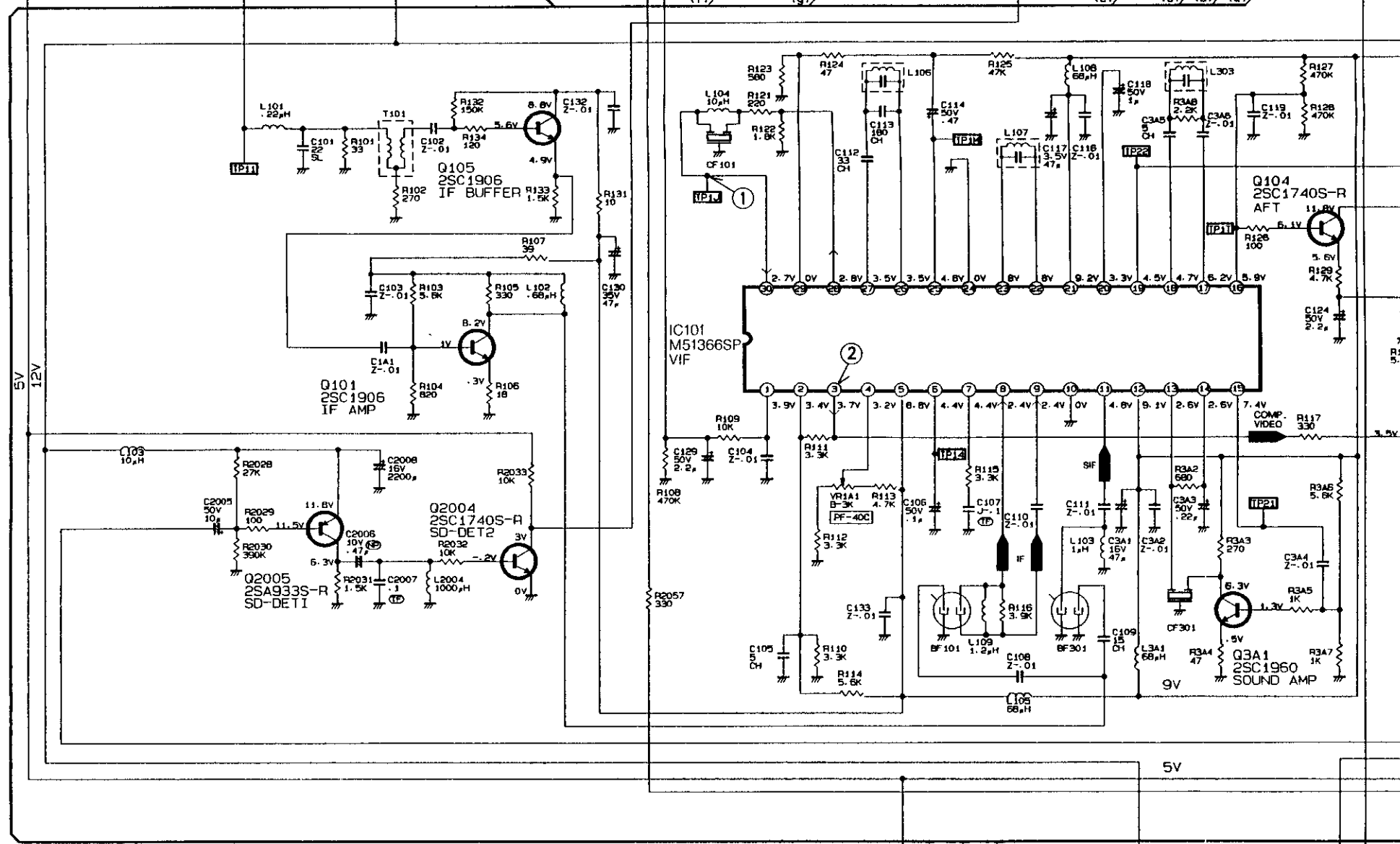
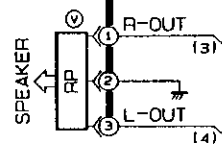
H

I

G

H

J

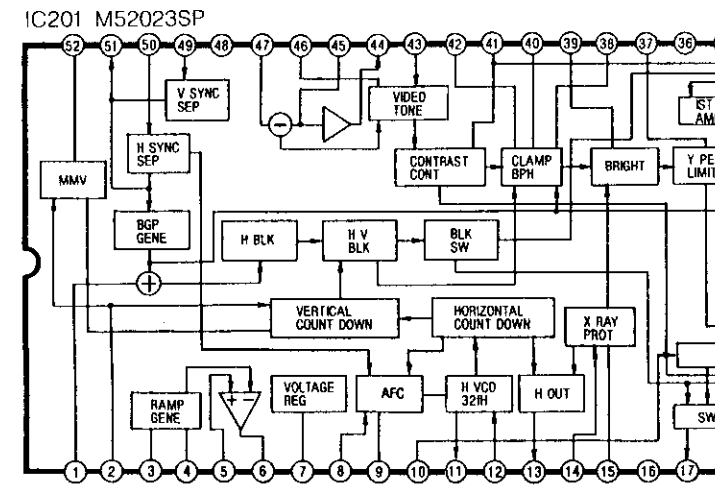
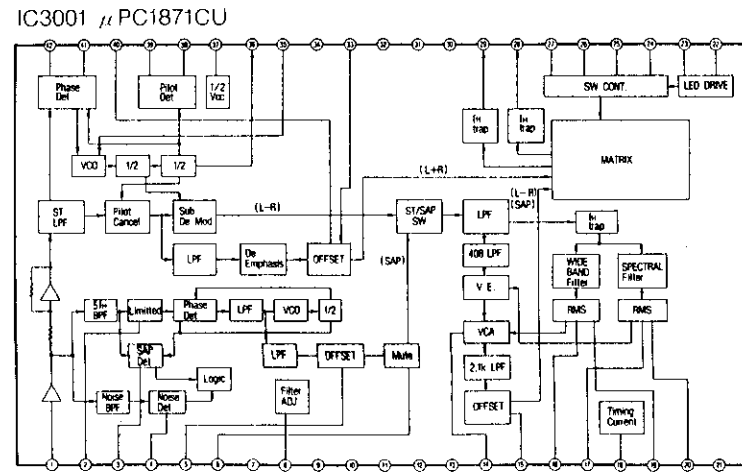
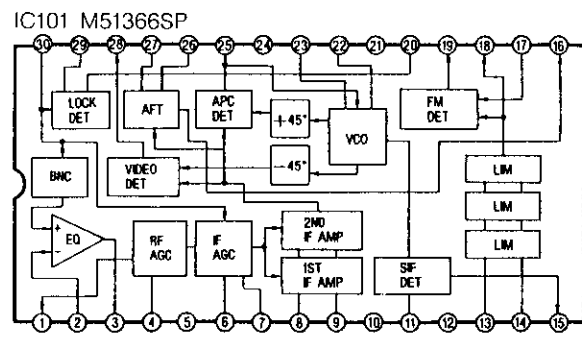


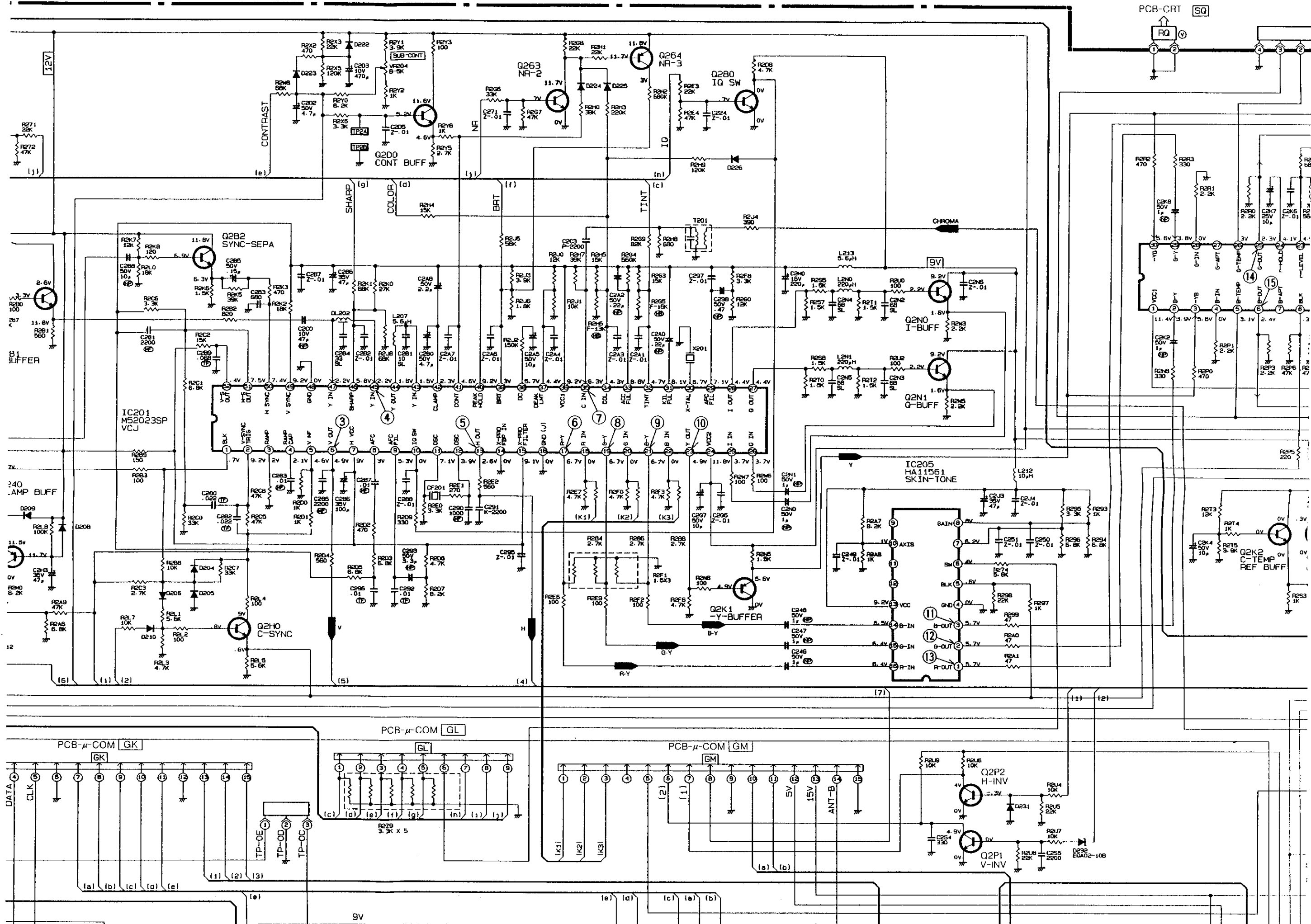
PCB-SIGNAL

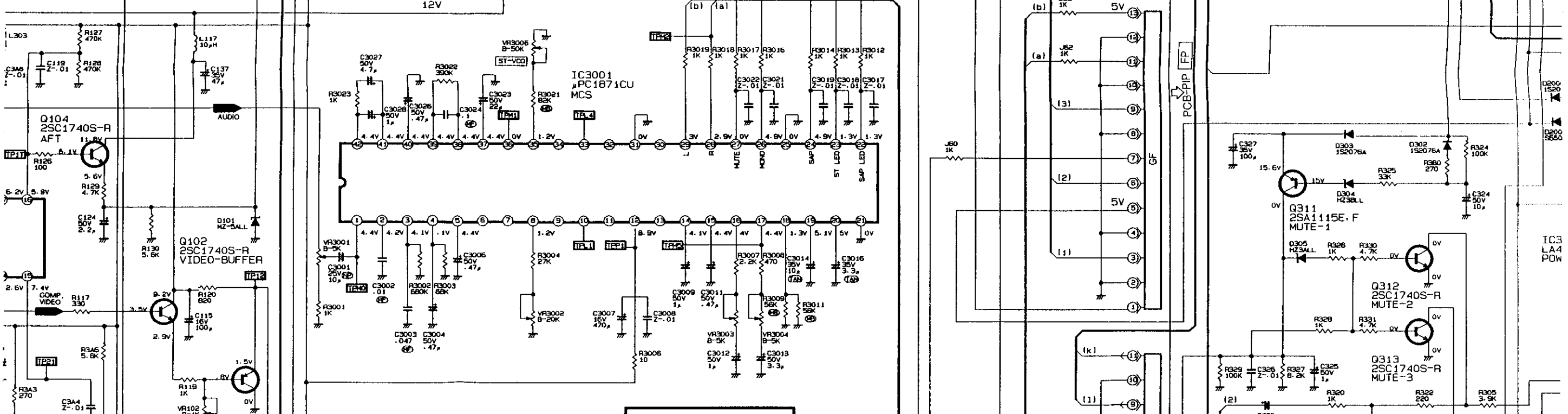
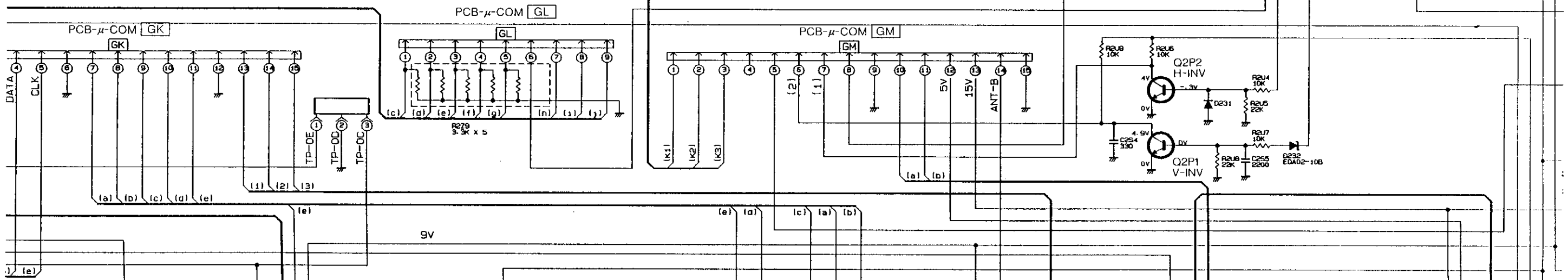
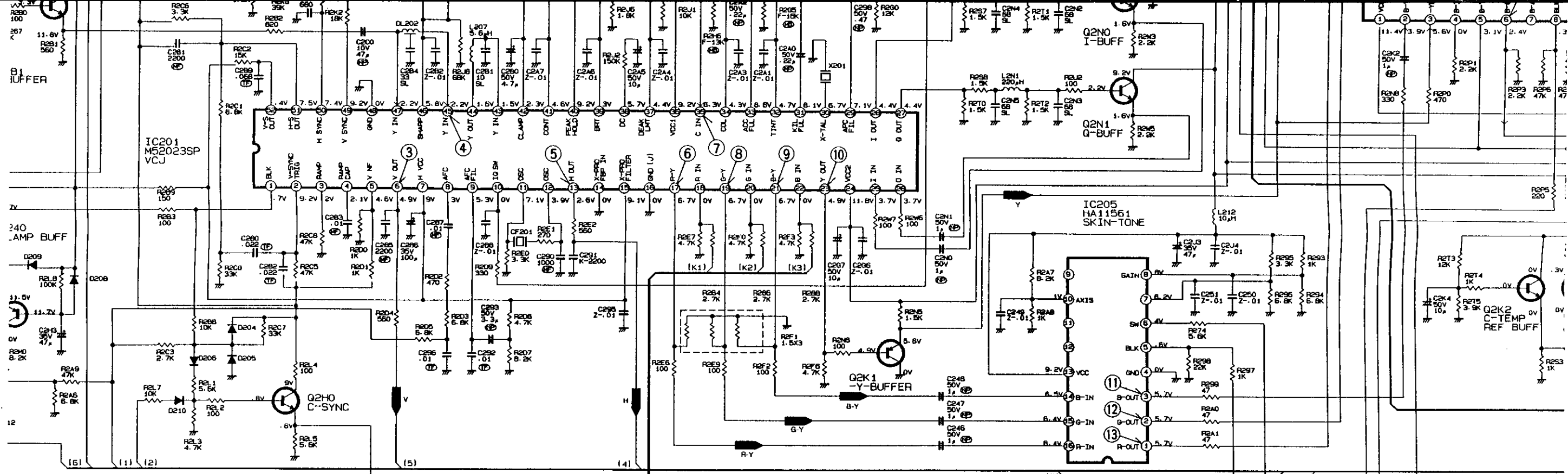
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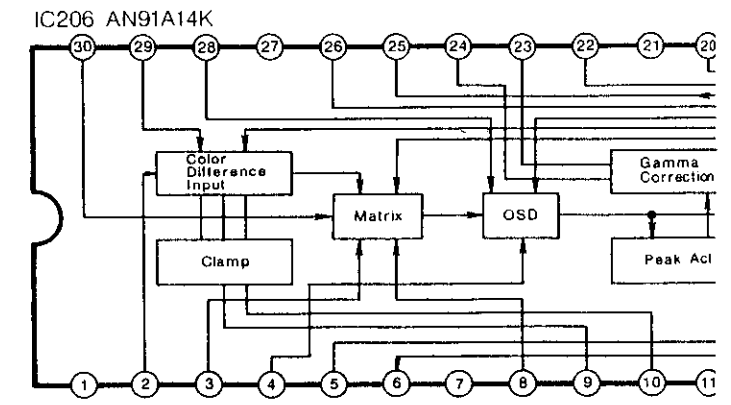
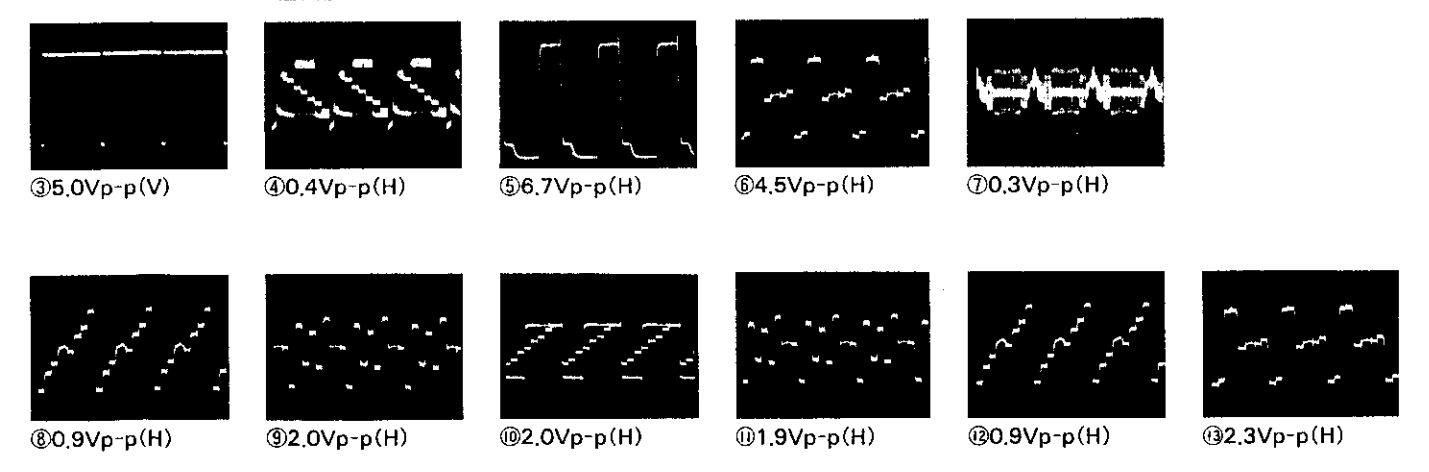
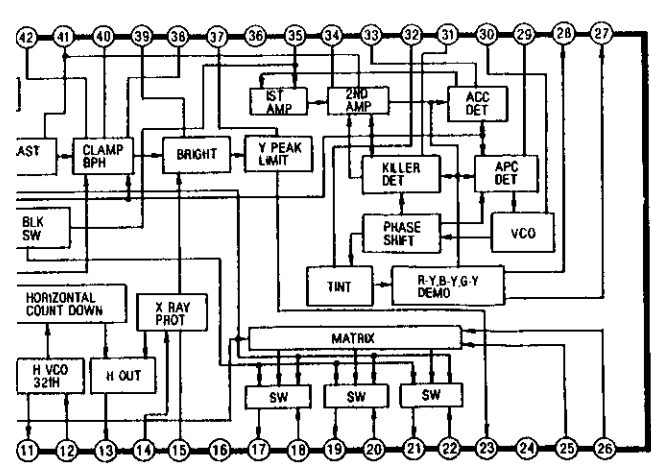
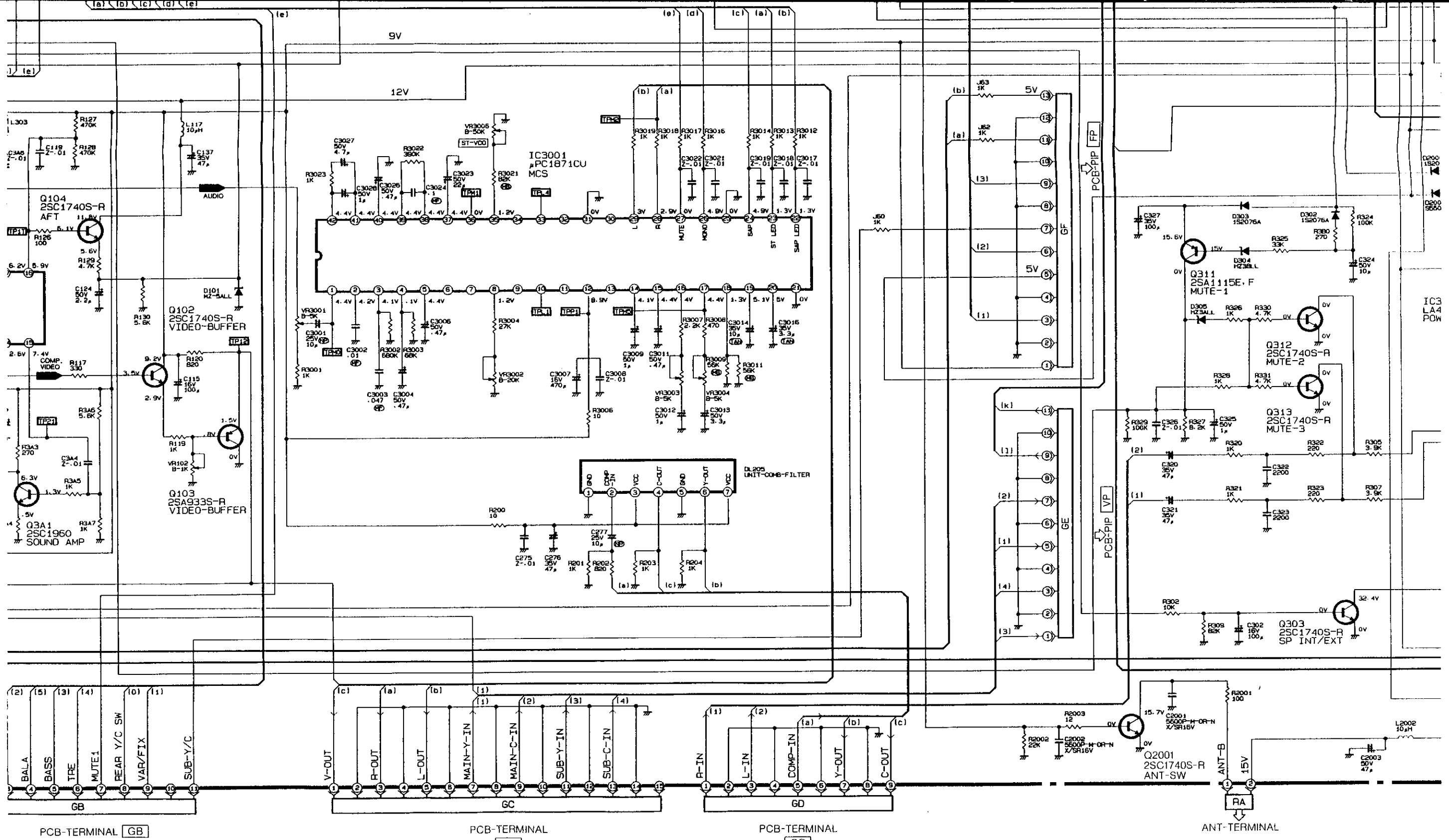
PCB-TERMINAL GA

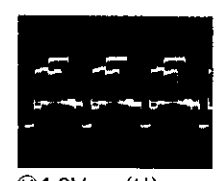
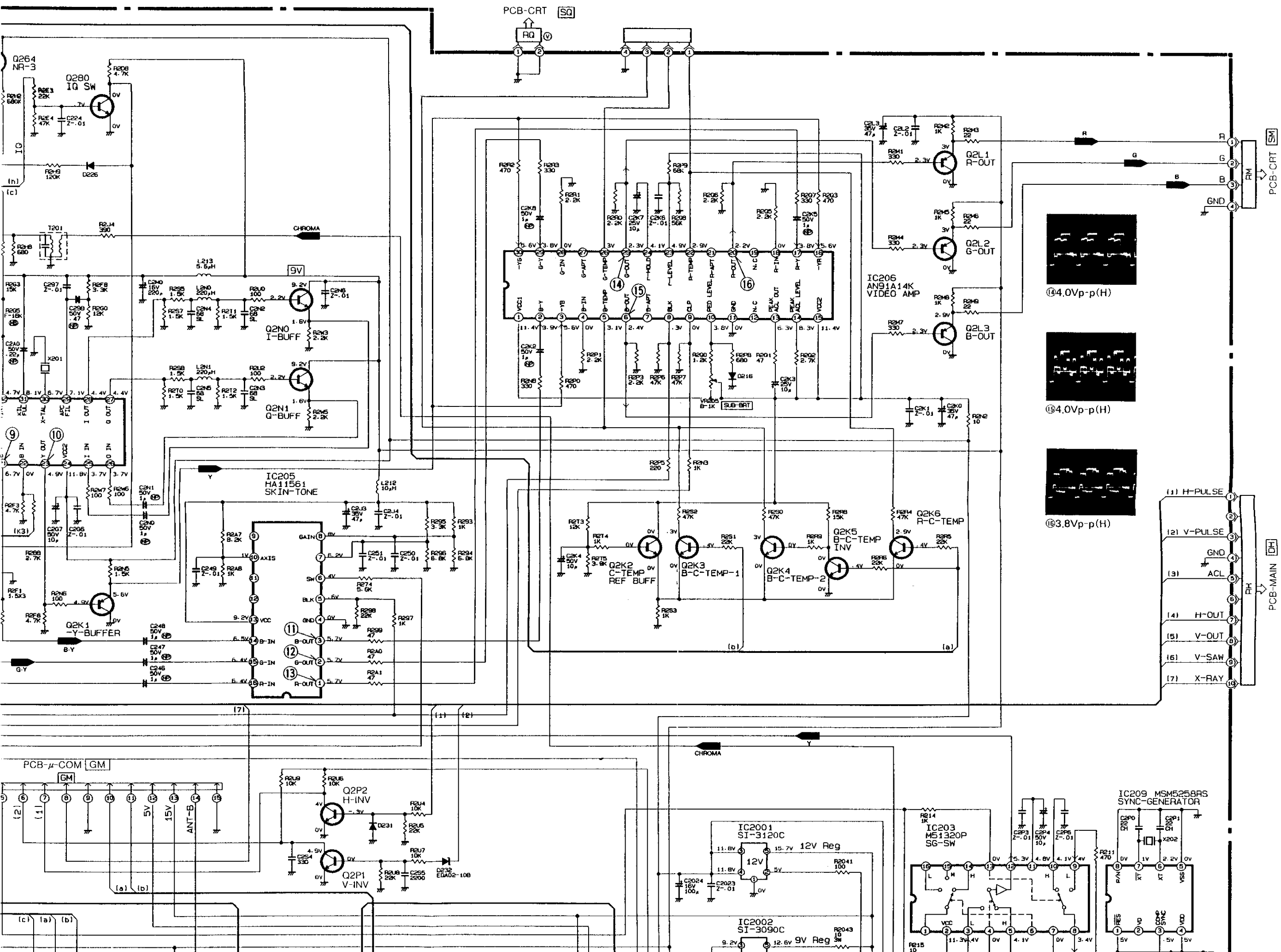
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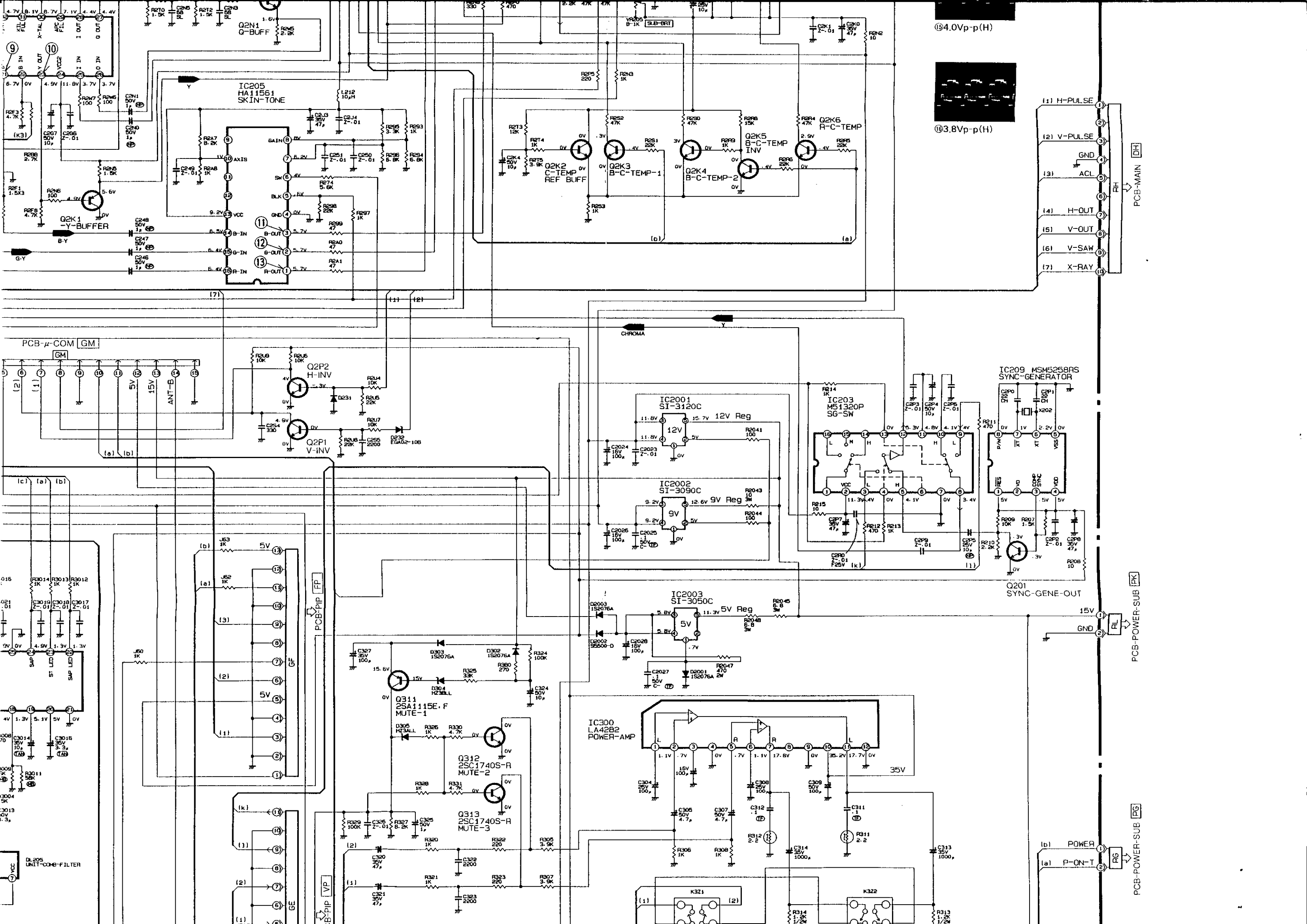








- (1) H-PULSE
- (2) V-PULSE
- (3) GND
- (4) ACL
- (5) H-OUT
- (6) V-OUT
- (7) V-SAW
- (8) X-RAY



⑤4.0Vp-p(H)

⑥3.8Vp-p(H)

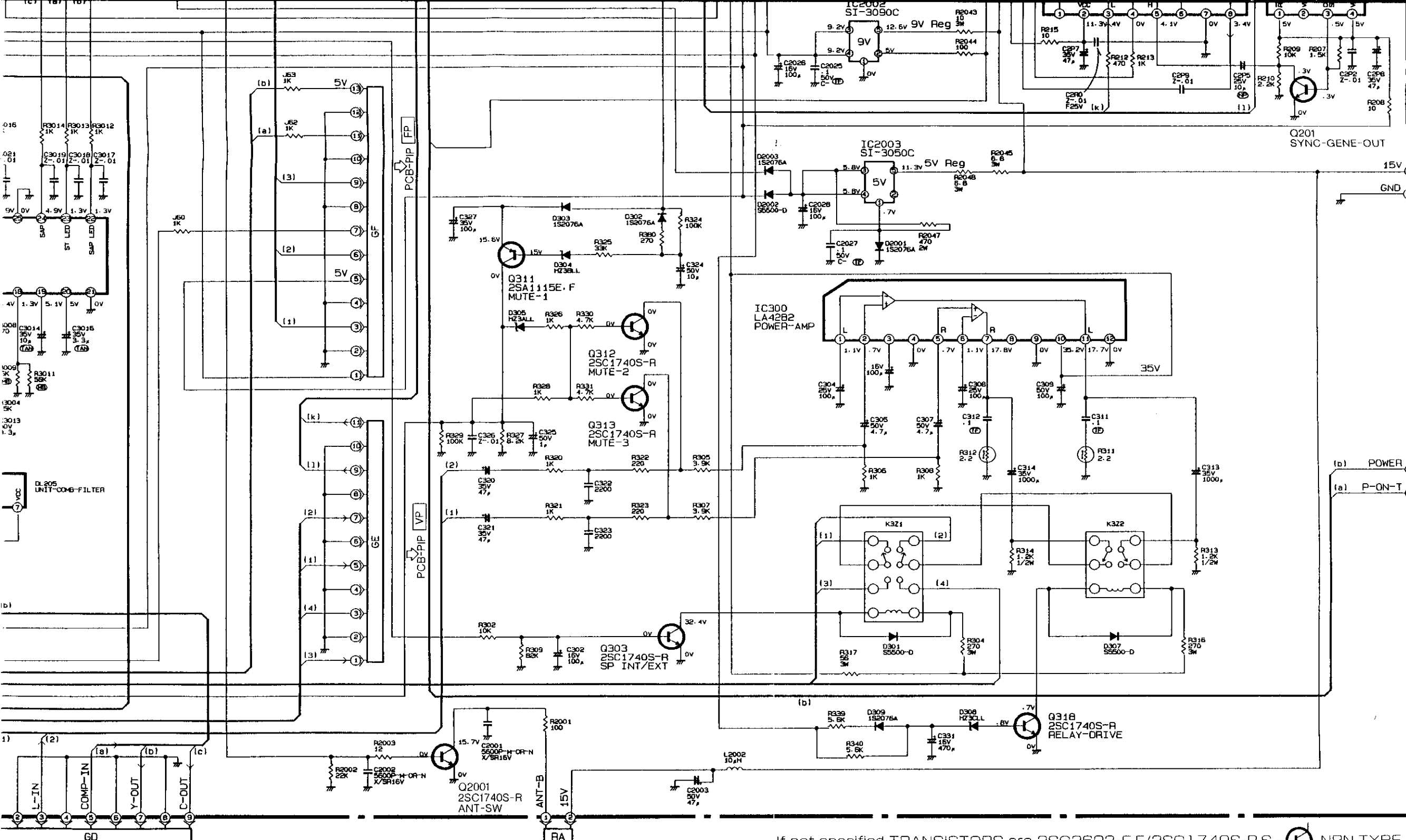



- (1) H-PULSE
- (2) V-PULSE
- (3) GND
- (4) ACL
- (5) H-OUT
- (6) V-OUT
- (7) V-SAW
- (8) X-RAY


PCB-MAIN [DH]

PCB-POWER-SUB [PK]

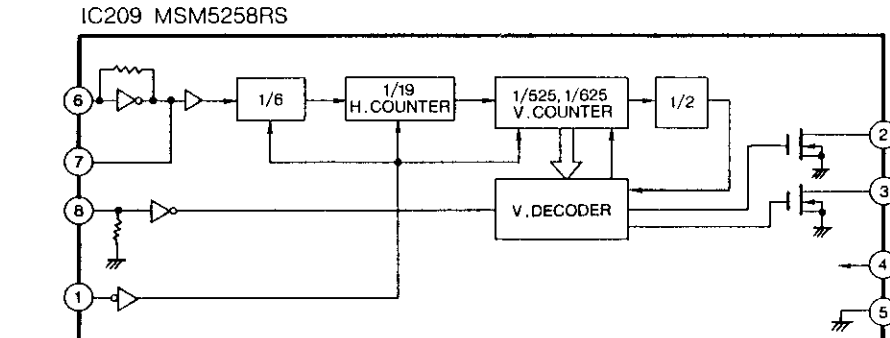
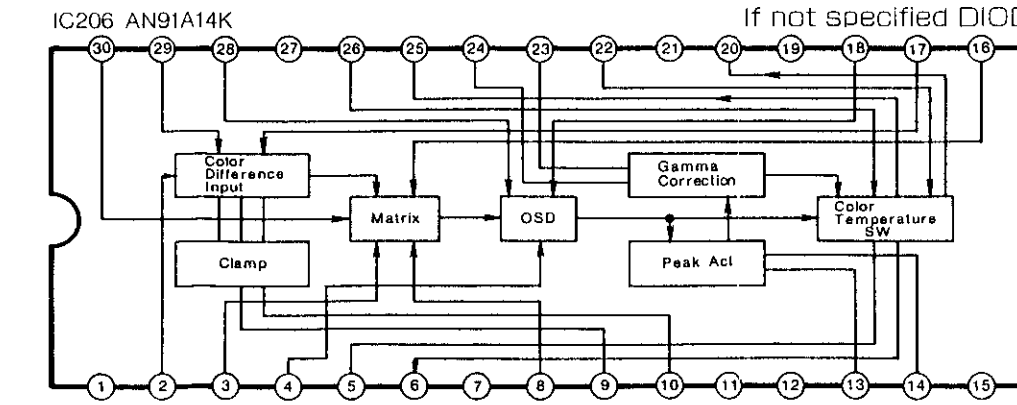
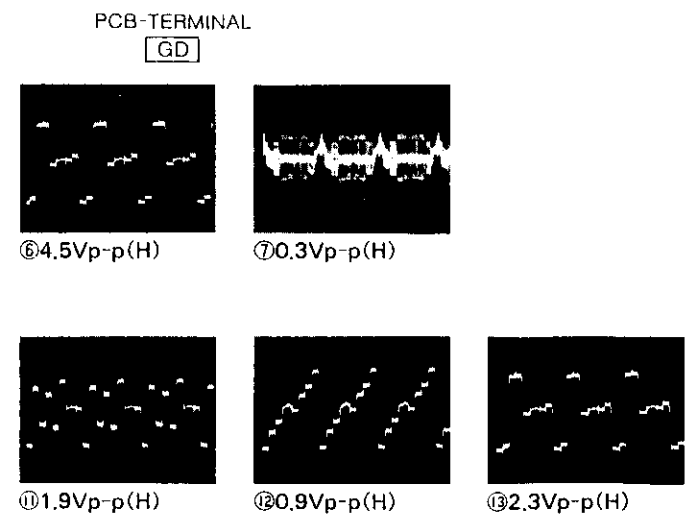
PCB-POWER-SUB [PG]

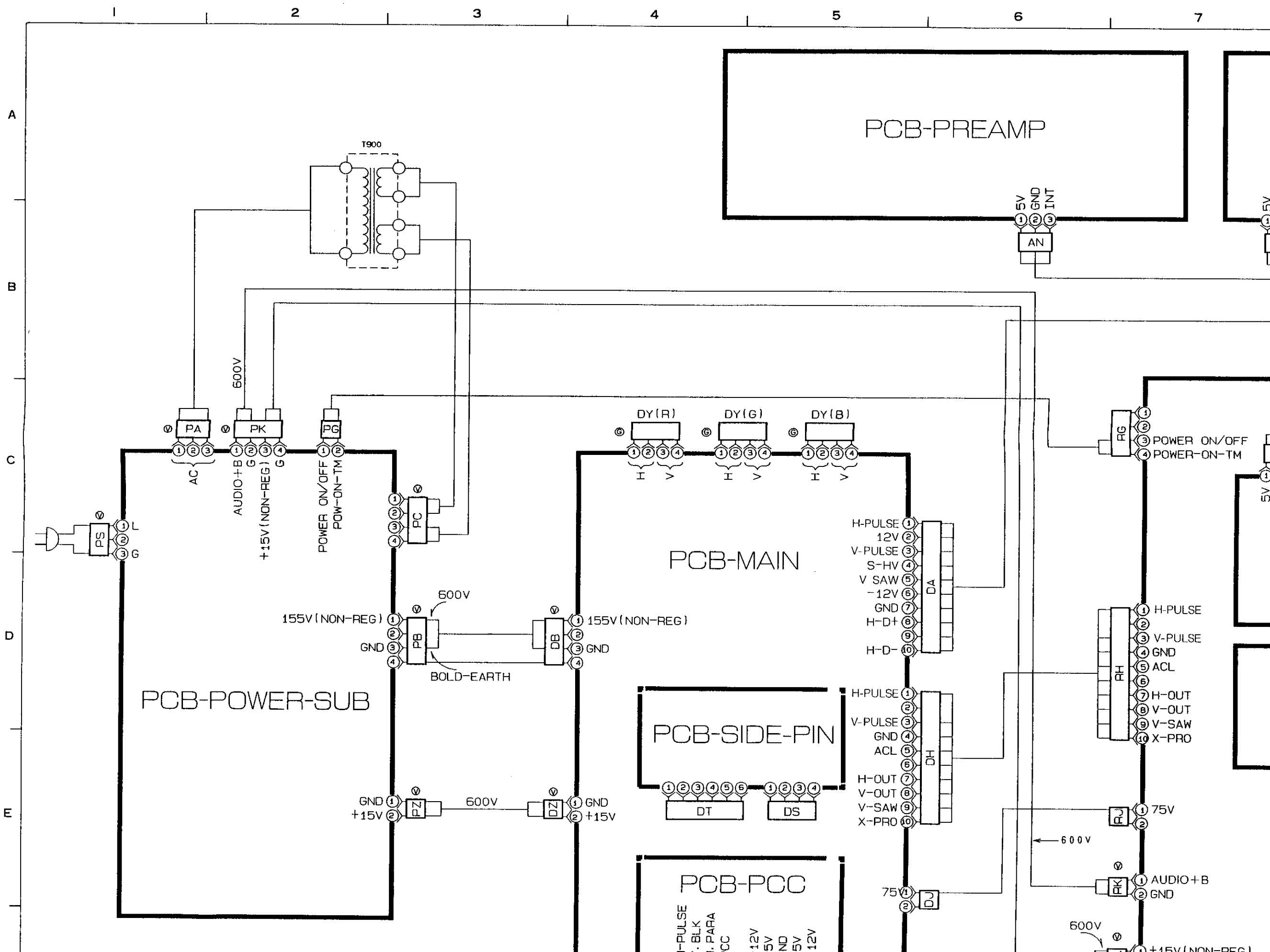


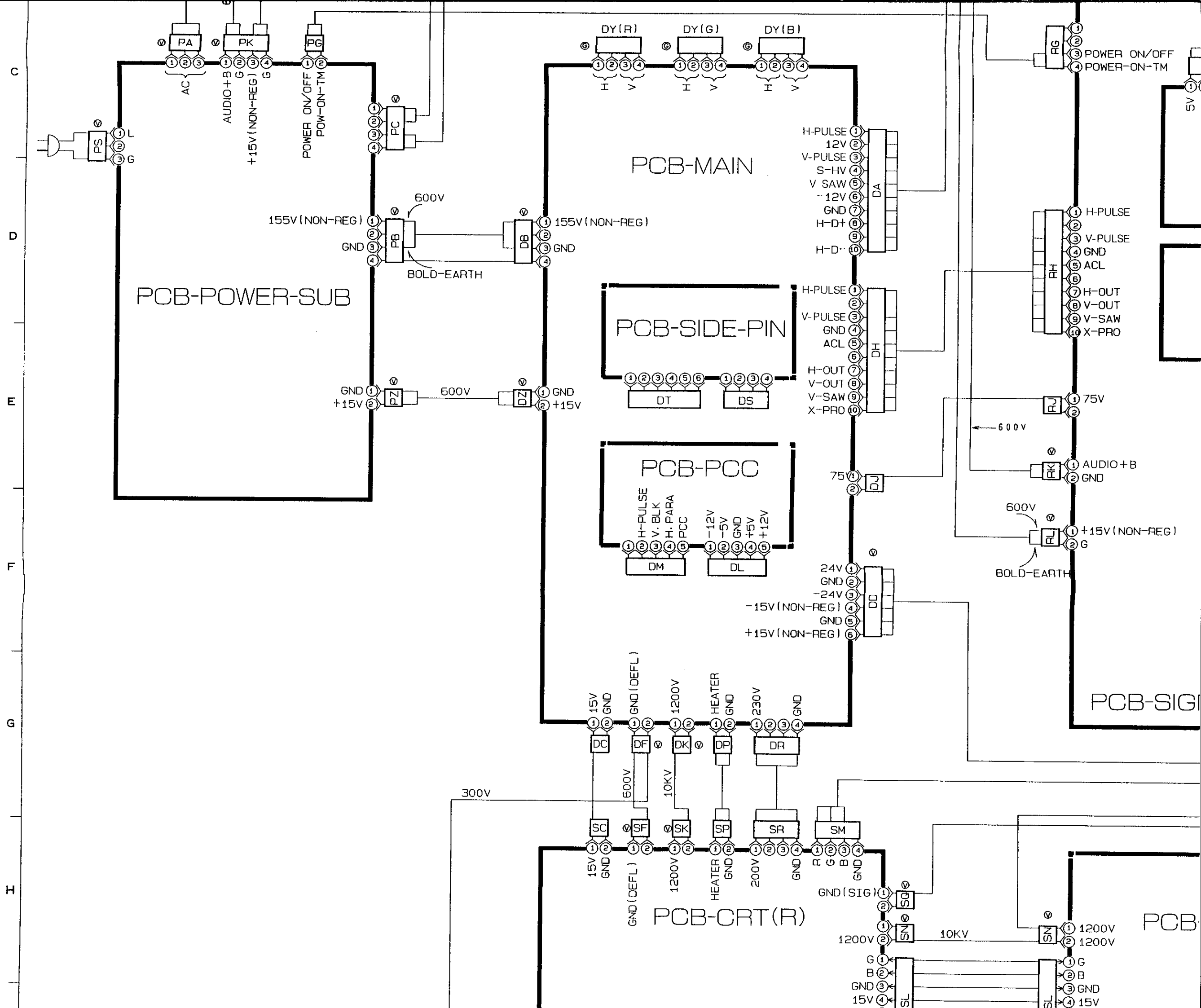
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2SA1115-E.F/2SA933S-R.S  PNP TYPE

If not specified DIODES are 1S2076A/1S2471







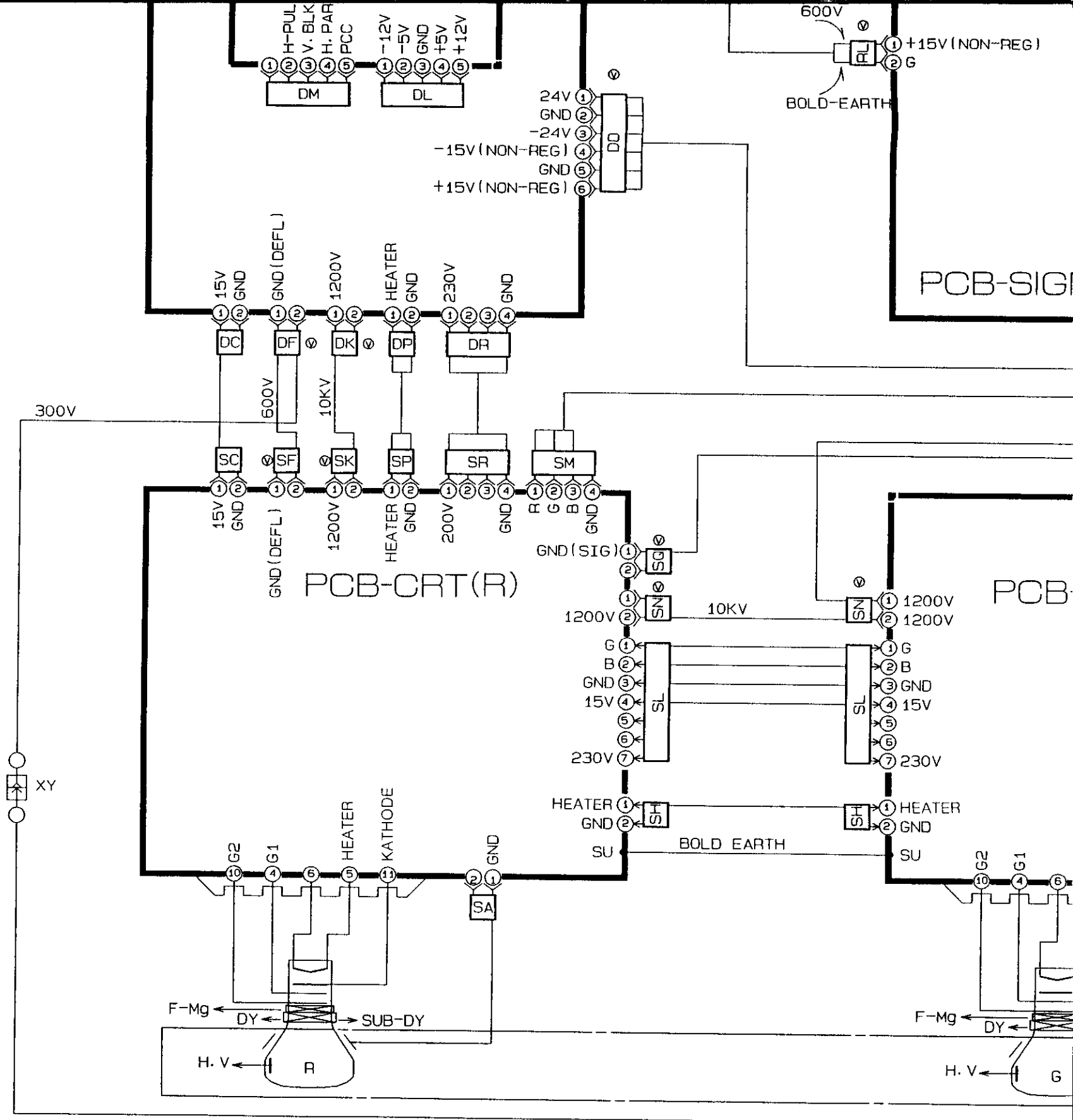
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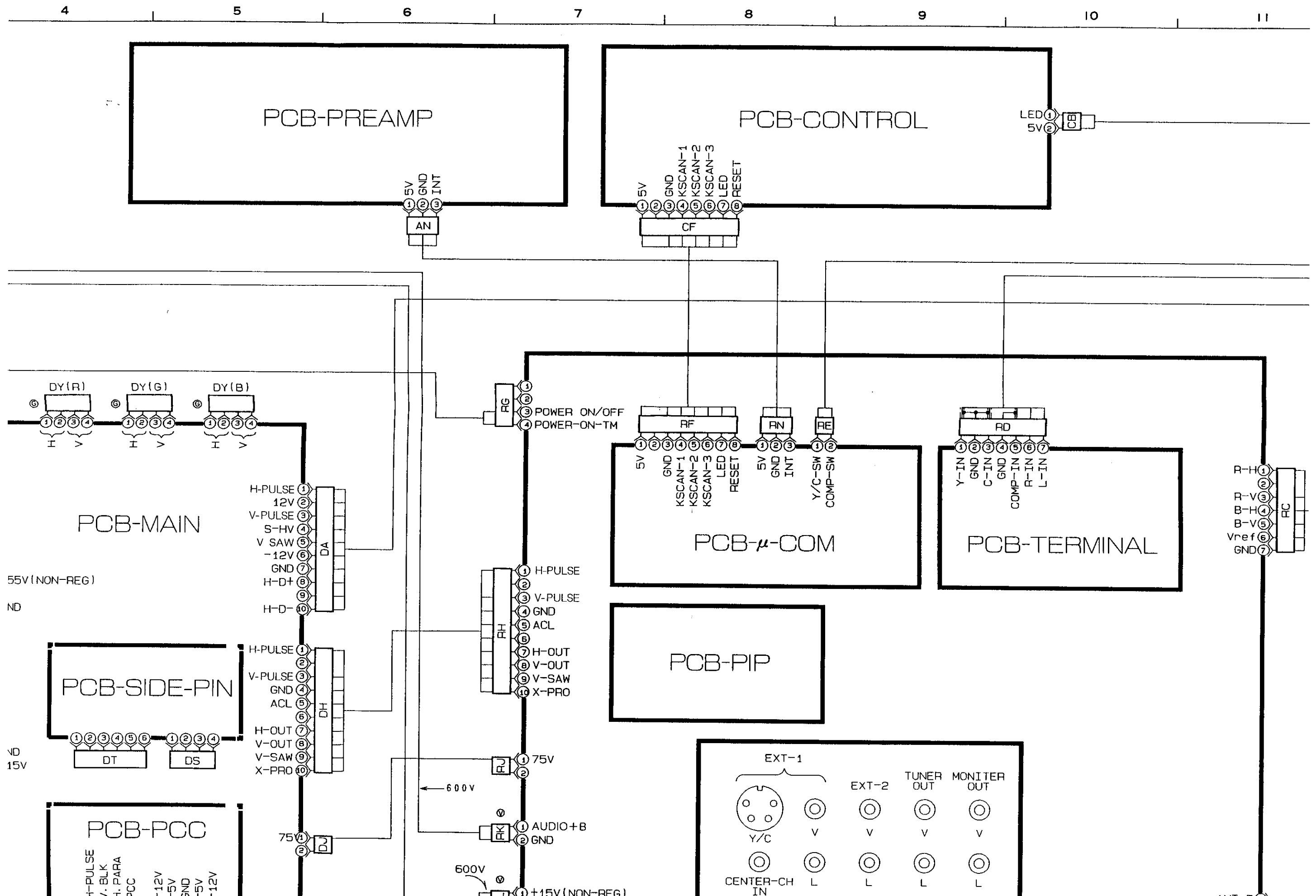
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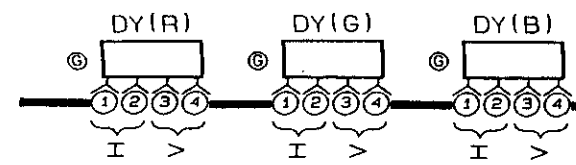
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J

K



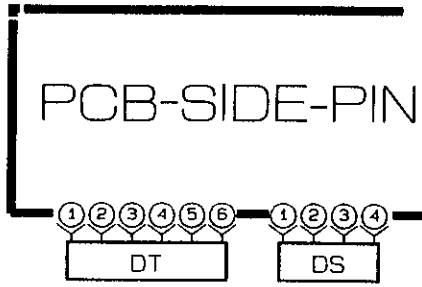
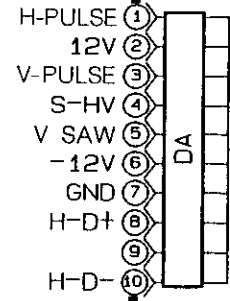




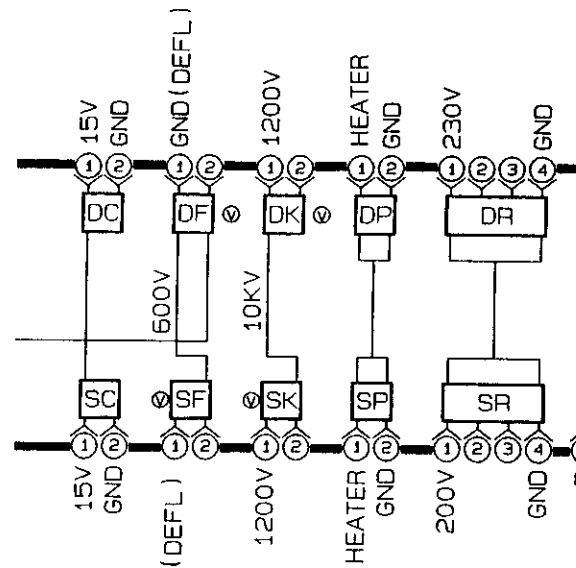
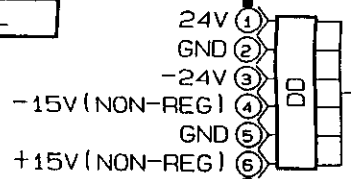
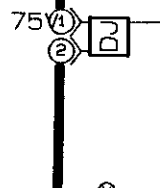
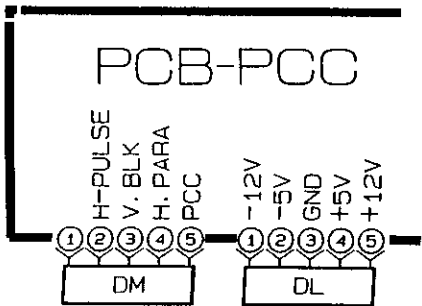
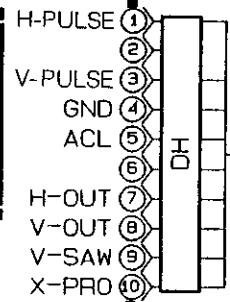
PCB-MAIN

55V (NON-REG)

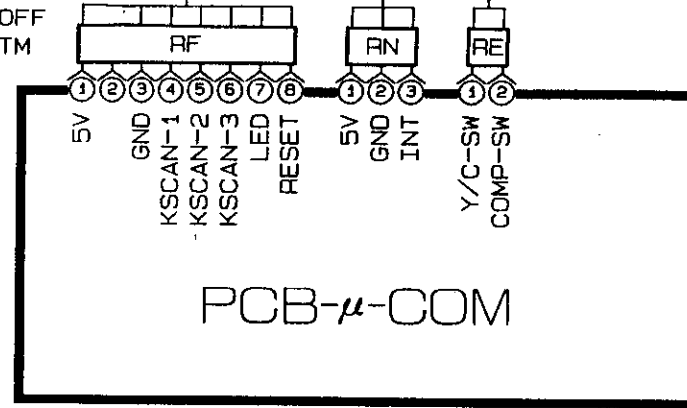
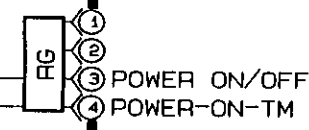
ND



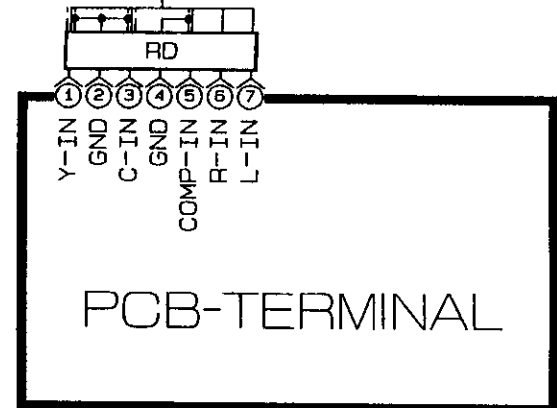
VD
15V



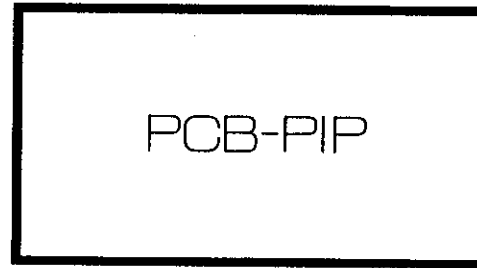
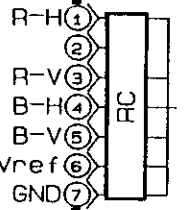
PCB-CRT(R)



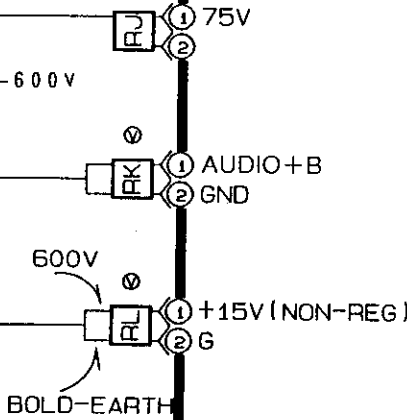
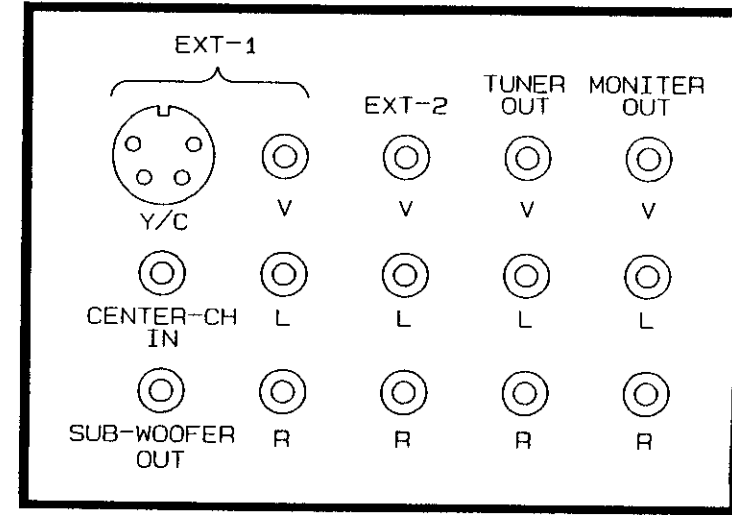
PCB-μ-COM



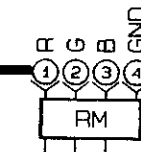
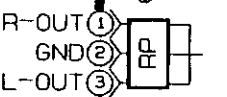
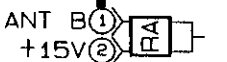
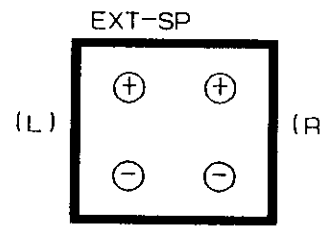
PCB-TERMINAL



PCB-PIP



PCB-SIGNAL

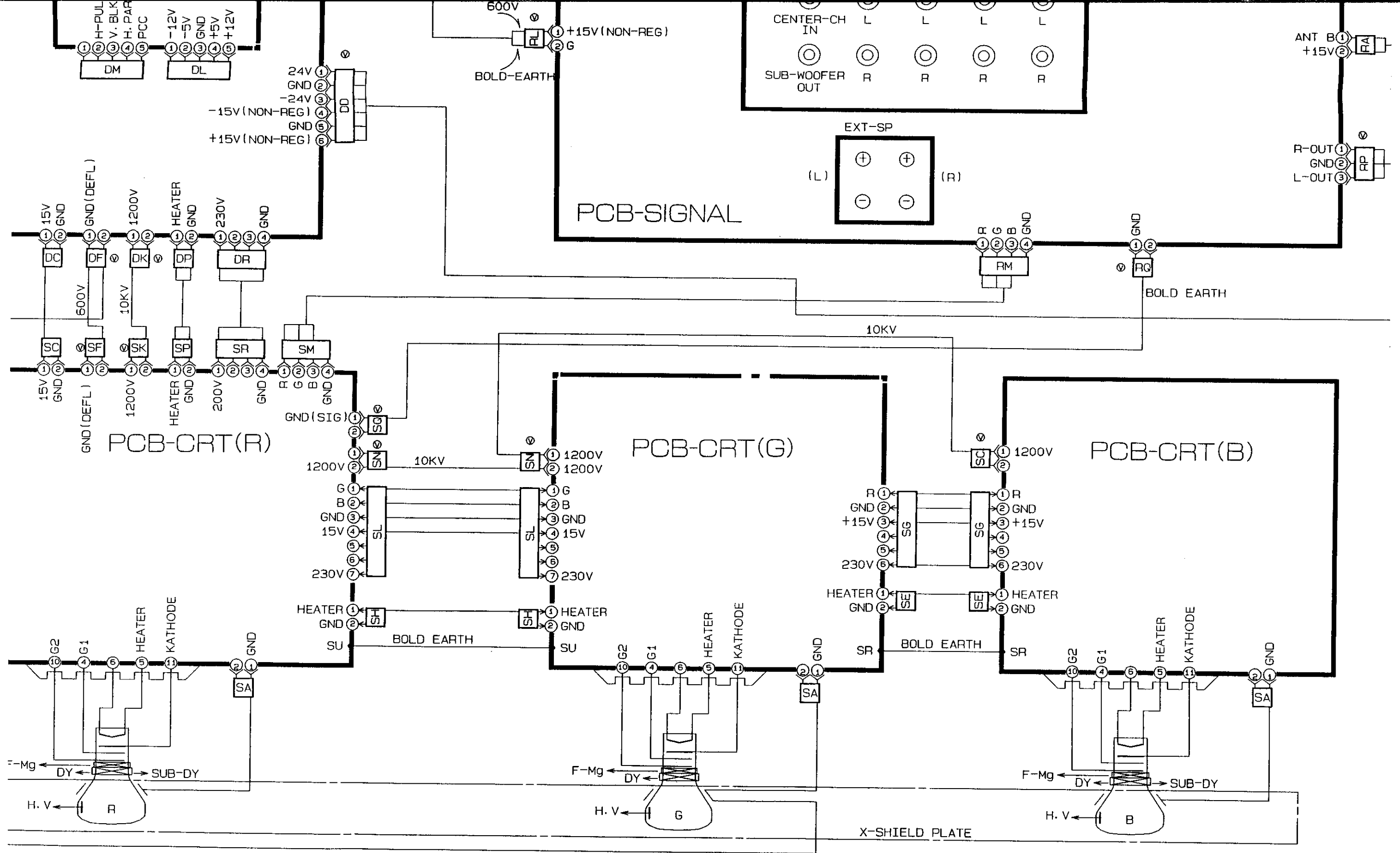


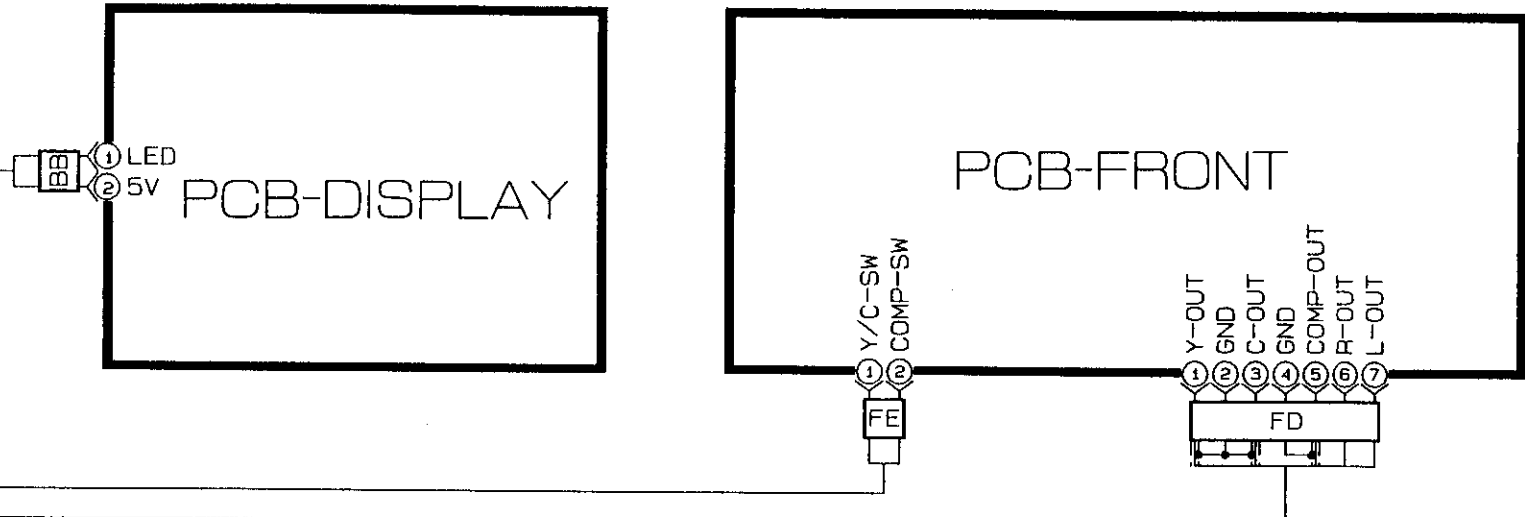
BOLD EARTH

10KV

PCB-CRT(G)

PCB-CRT(B)



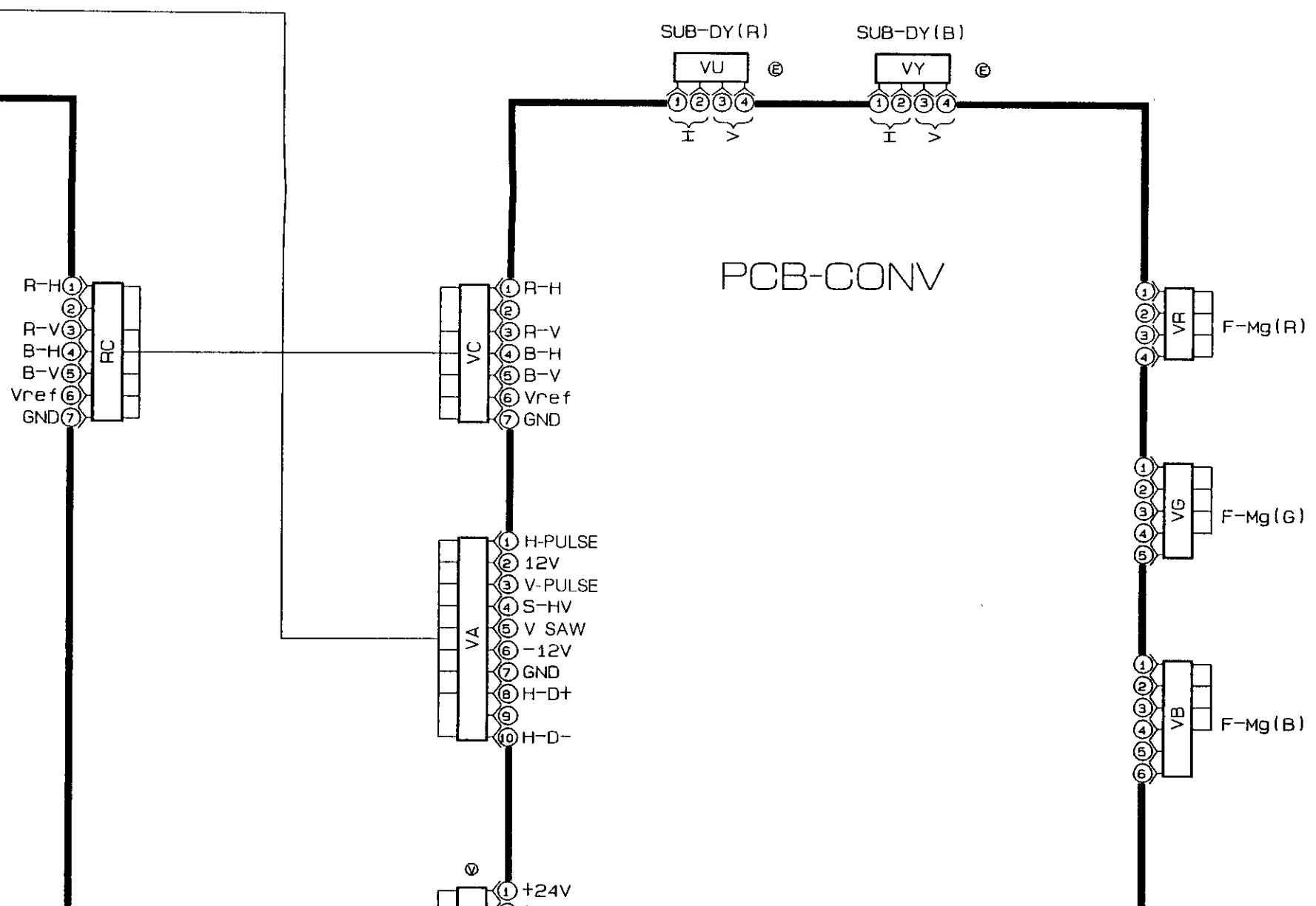


SCHEMATIC DIAGRAM

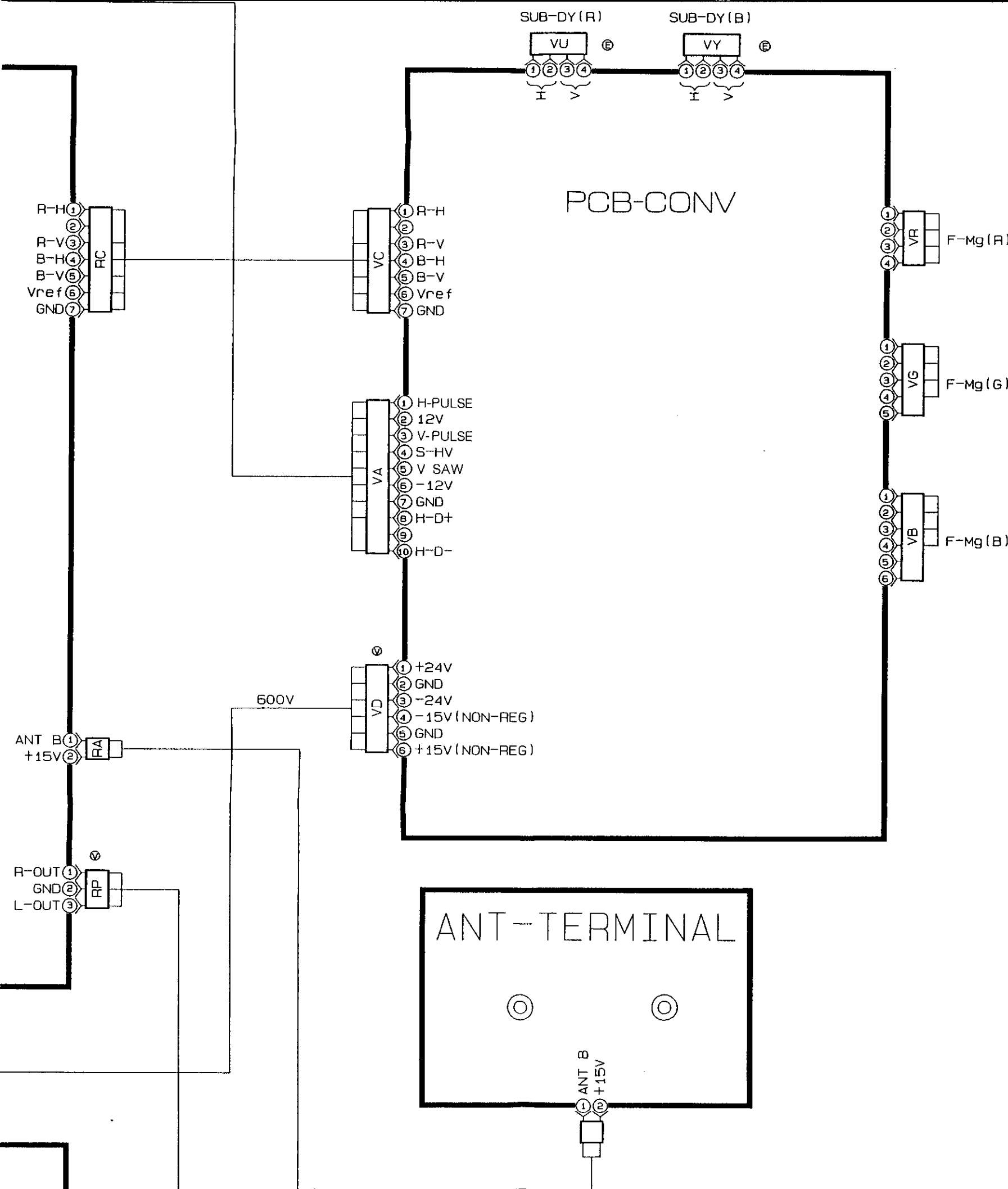
- MODELS : VS-40VA2
 VS-45VA1
 VS-45VA2
 VS-50VA1
 VS-50VA2
 VS-60VA2
 VS-45VA2CA
 VS-50VA2CA
 VS-60VA2CA

NOTE 1:

- The unit of resistance is "ohm" with no symbol. Accordingly, K = 1000 ohms, M = 1000K ohms.
- The wattage of resistors, if not specifically designated, is 1/4 watt.
- Resistors, if not specifically designated, are carbon resistors.
- 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
- The tolerance of resistor value is: Not specified=±5%, K=±10% M=±20%
- The unit of capacitance, if not specifically designated, is: a) μF, for numbers less than 1 b) PF, for numbers more than 1
- Capacitors, if not specifically designated are Ceramic capacitors except electrolytic capacitors.
- 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.
 - PS : Styrol capacitor.
 - * : Electrolytic capacitor
- The DC working voltage of capacitor, if not specifically designated is: 50V
- 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=-20% N=±30%



SPECIFIC SYMBOL	
	Zener Diode
	Varicap
	Posistor
	Varistor
	Crystal unit
	Air Gap
	Part (resistor) attached



- watt.
- Resistors, if not specifically designated, are carbon resistors.
 - 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
 - The tolerance of resistor value is:
Not specified = ±5%, K = ±10%, M = ±20%
 - The unit of capacitance, if not specifically designated, is:
 - a) μF, for numbers less than 1
 - b) PF, for numbers more than 1
 - Capacitors, if not specifically designated are Ceramic capacitors except electrolytic capacitors.
 - The marks of capacitors are as follows:
 - ALM : Aluminum 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.
 - PS : Styrol capacitor.
 - * : Electrolytic capacitor
 - The DC working voltage of capacitor, if not specifically designated is: 50V
 - 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%

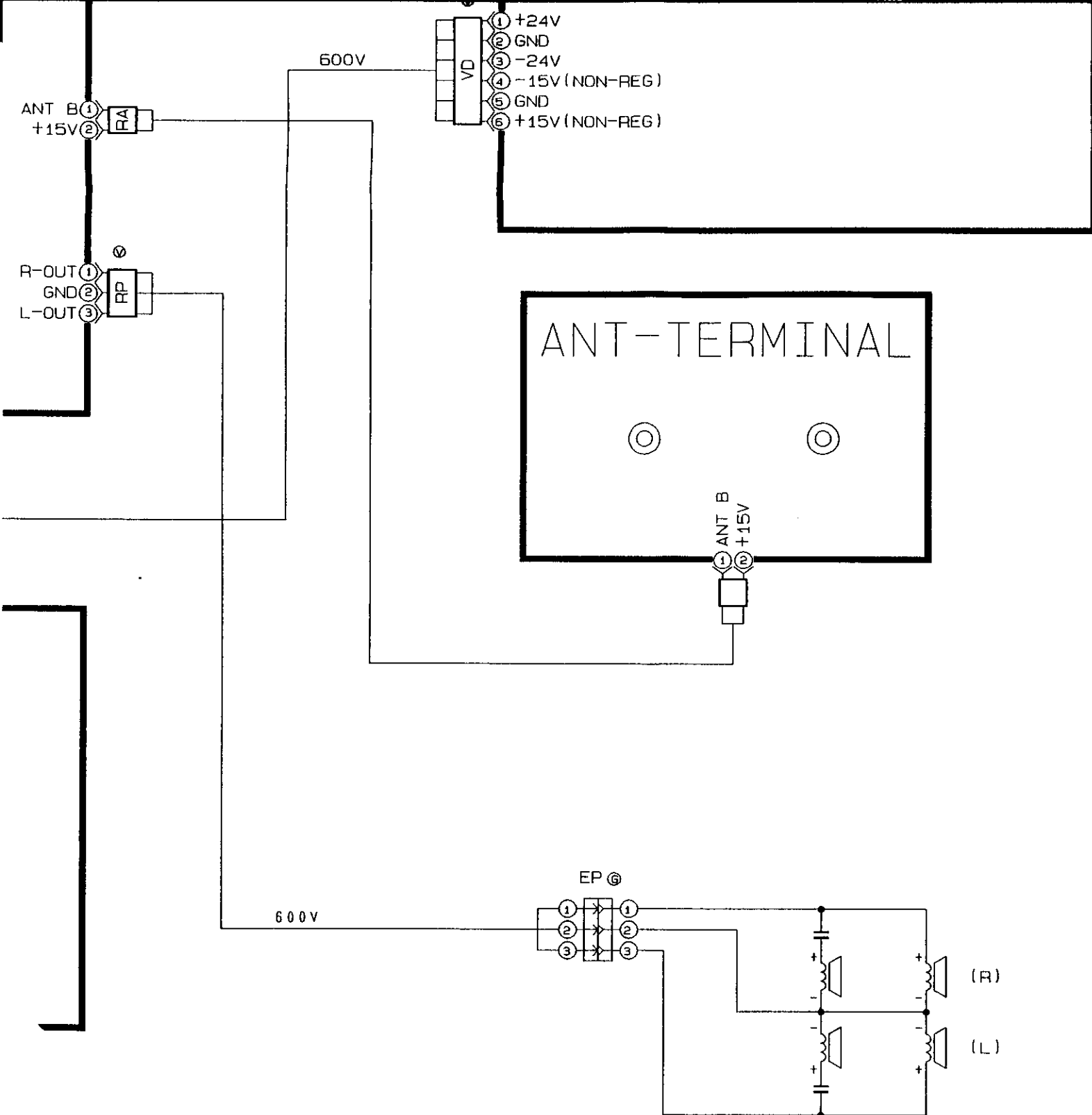
SPECIFIC SYMBOL			
	Zener Diode		Varistor
	Varicap		Crystal unit
	Posistor		Air Gap
	Thermistor		Part (resistor) attached on the copper-foil side of PCB
	Fusible Resistor		Ceramic filter

- NOTE 2:**
- DC voltages were measured from points indicated to the circuit ground with a digital voltmeter.
Line voltage at 120V AC on signal applied.
 - Waveforms were taken with NTSC color bar signal.
 - This is a basic schematic diagram. Some sets may be subject to modification according to engineering improvement.

IMPORTANT COMPONENTS HAVE SPECIAL CHARACTERISTICS. IT IS IMPORTANT TO SAFETY, BEFORE REPLACING ANY OF THESE COMPONENTS READ CAREFULLY THE PRECAUTION NOTICE IN THE SERVICE MANUAL. DO NOT 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.

LES ELEMENTS CONSTITUTIFS HACHURES ONT DES CARACTERISTIQUES SPECIALES IMPORTANTES A LA SECURITE. AVANT DE REMPLACER L'UN OU L'AUTRE DE CES ELEMENTS, LIRE ATTENTIVEMENT LA NOTICE



	Polistor		Air Gap
	Thermistor		Part (resistor) attached on the copper-foil side of PCB
	Fusible Resistor		Ceramic filter

NOTE 2:

- DC voltages were measured from points indicated to the circuit ground with a digital voltmeter. Line voltage at 120V AC on signal applied.
- Waveforms were taken with NTSC color bar signal.
- This is a basic schematic diagram. Some sets may be subject to modification according to engineering improvement.

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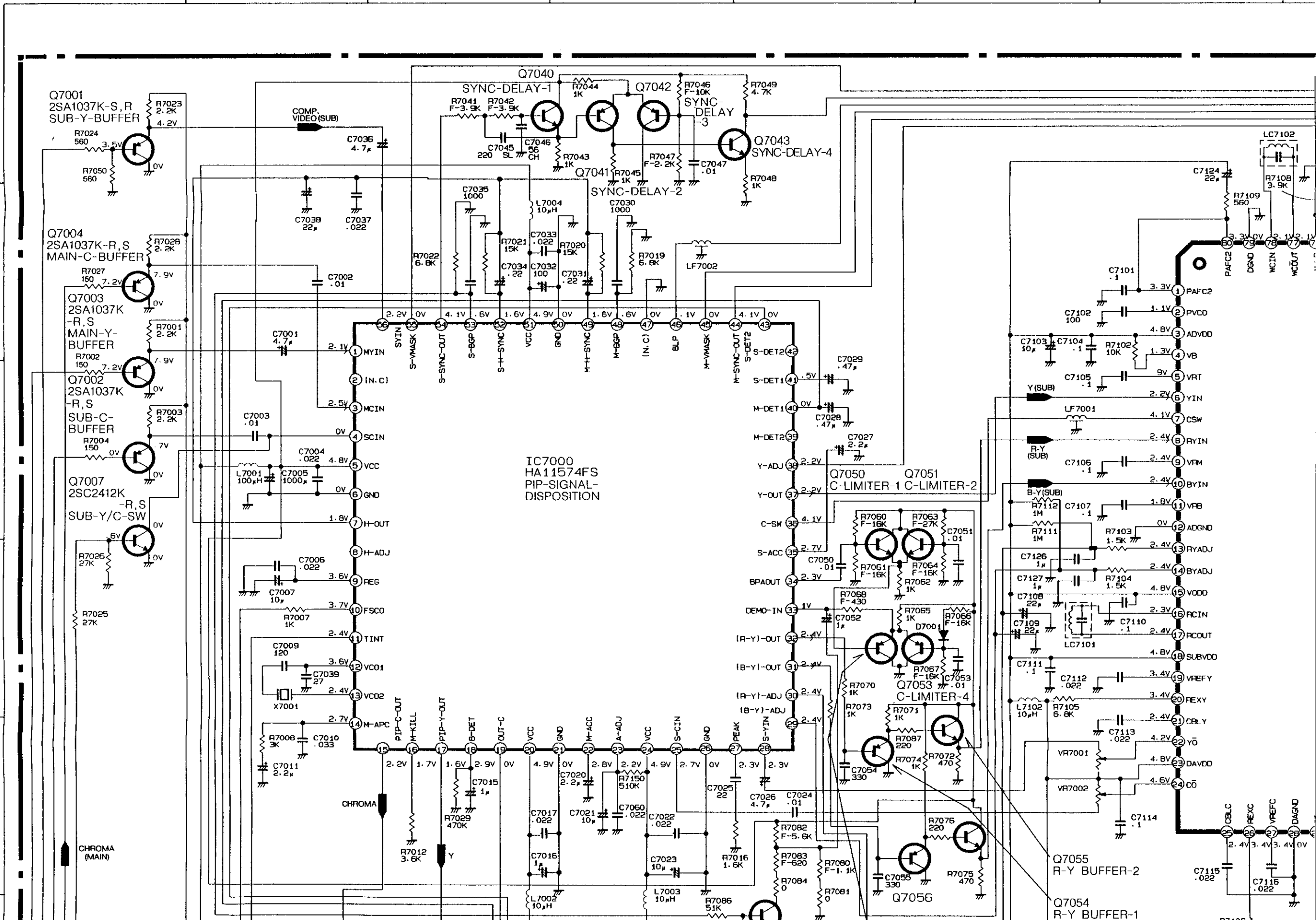
AVERTISSEMENT AU DEPANNEUR
 PRECAUTIONS CONTRE LA RADIATION AUX RAYONS X LE PRESENT APPAREIL COMPORTE DES PIECES IMPORTANTES ELECTROMECHANQUES POUR LA PROTECTION CONTRE LA RADIATION AUX RAYONS X. POUR EVITER TOUTE EXPOSITION EVENTUELLE A LA RADIATION AUX RAYONS X, PRENDRE LES MESURES DE PROTECTION AU COURS DU DEPANNAGE. VOIR LES INSTRUCTIONS D'ENTRETIEN POUR LES PIECES DE REMPLACEMENT SPECIFIEES ET LES REGLAGES D'ENTRETIEN.

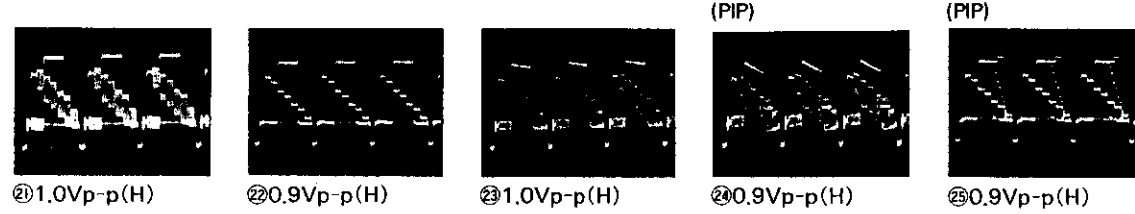
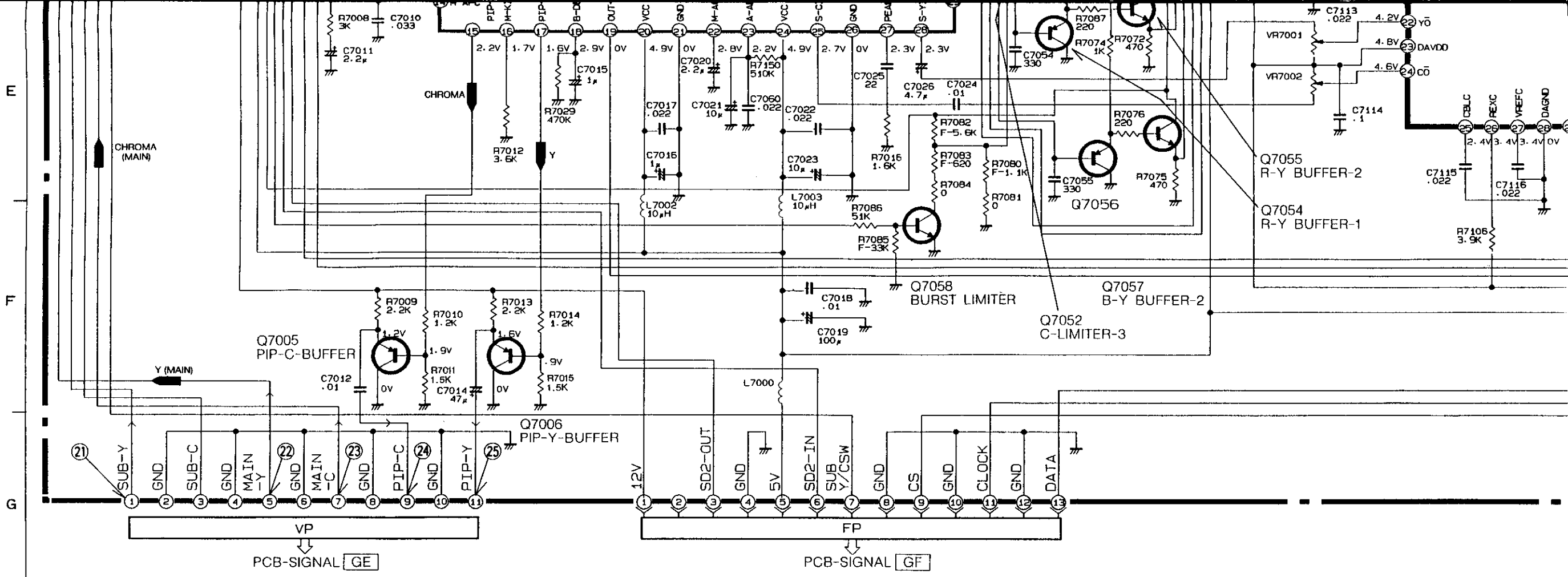
Printed in U.S.A.

- VS-40VA2
- VS-45VA1
- VS-45VA2
- VS-50VA1
- VS-50VA2
- VS-60VA2
- VS-45VA2CA
- VS-50VA2CA
- VS-60VA2CA(1/6)

A
B
C
D
E

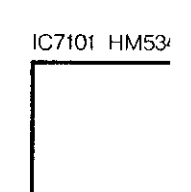
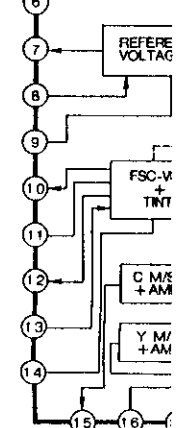
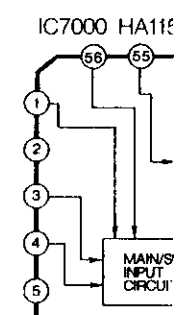
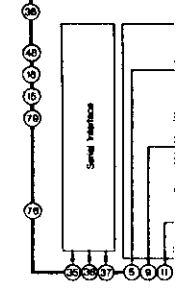
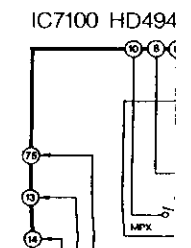
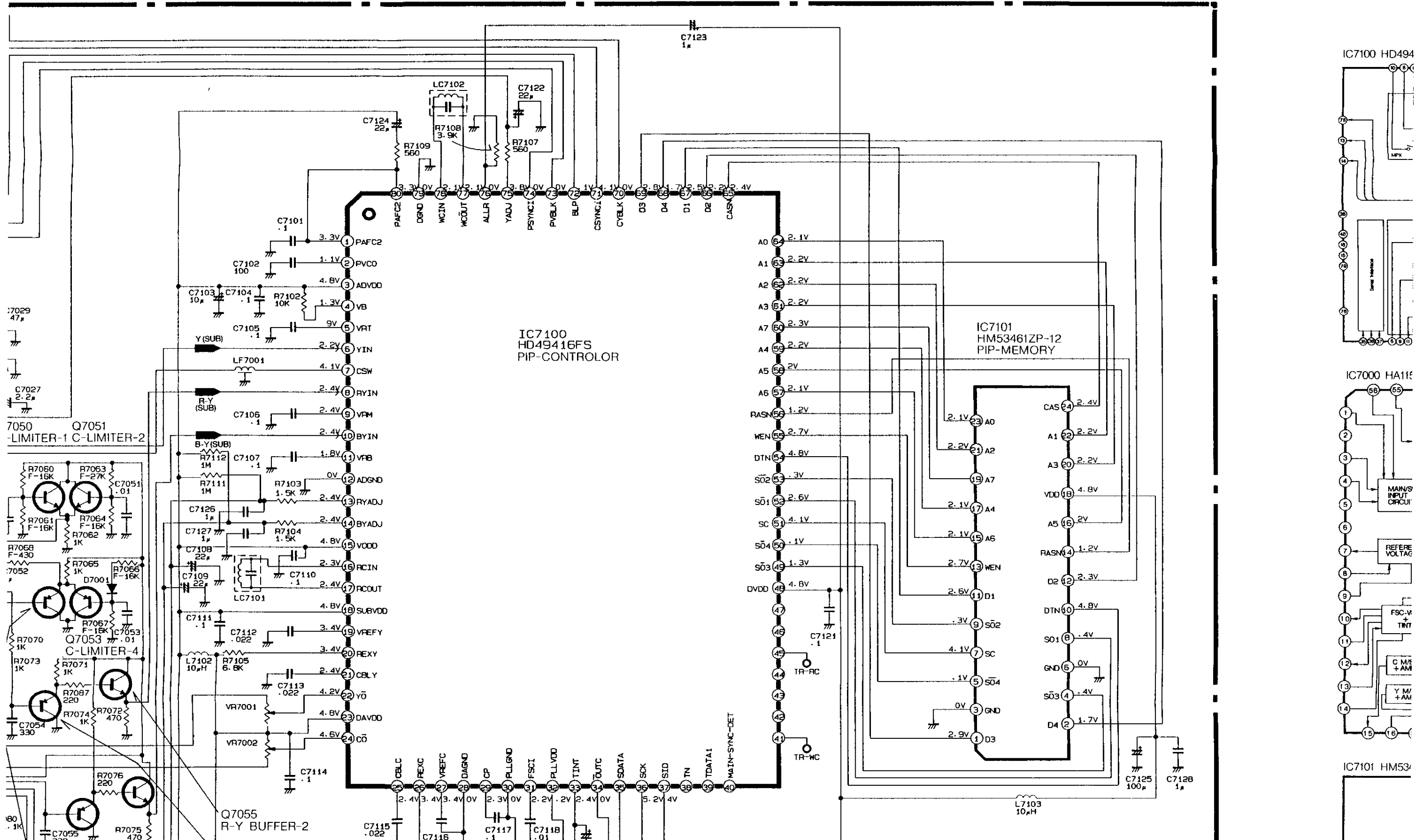
1 2 3 4 5 6 7

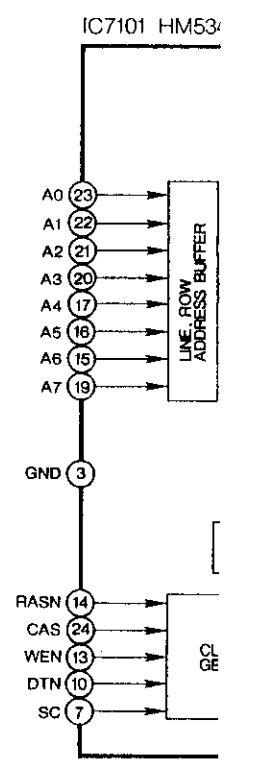
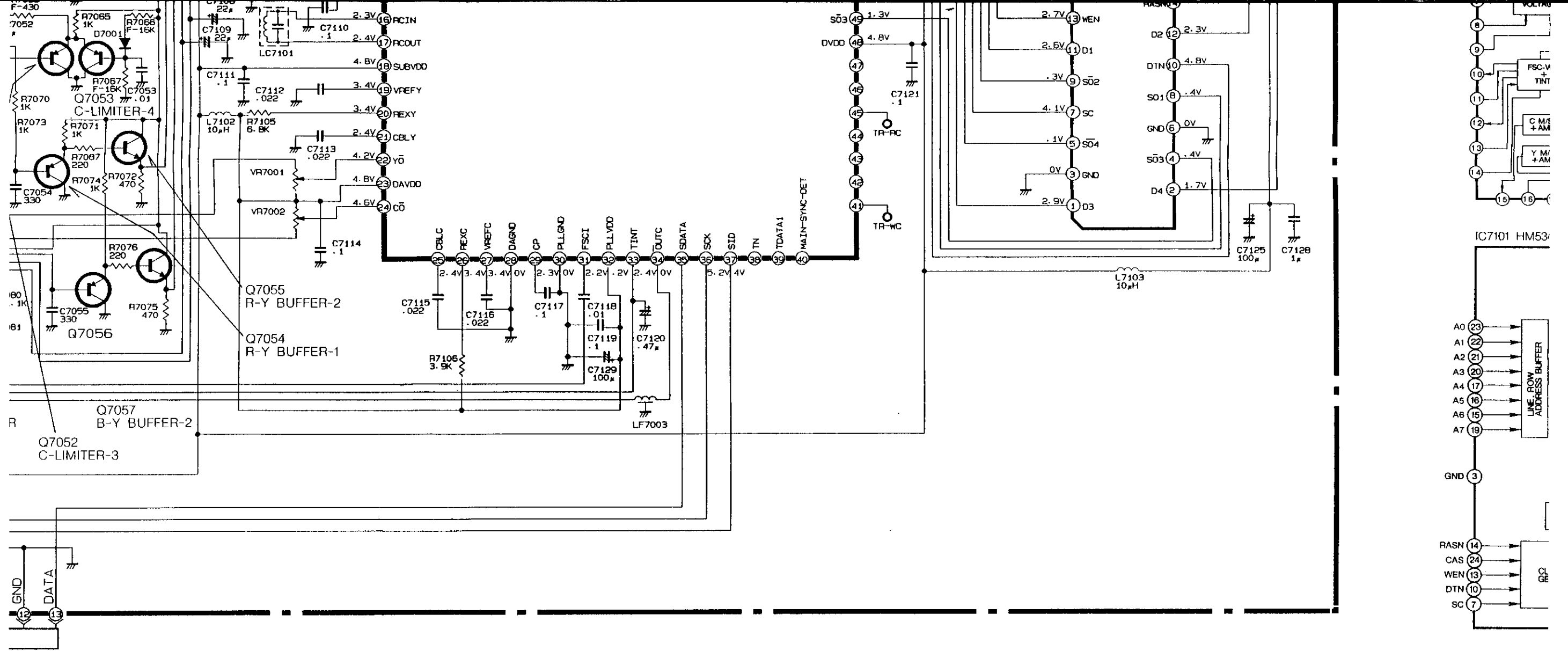




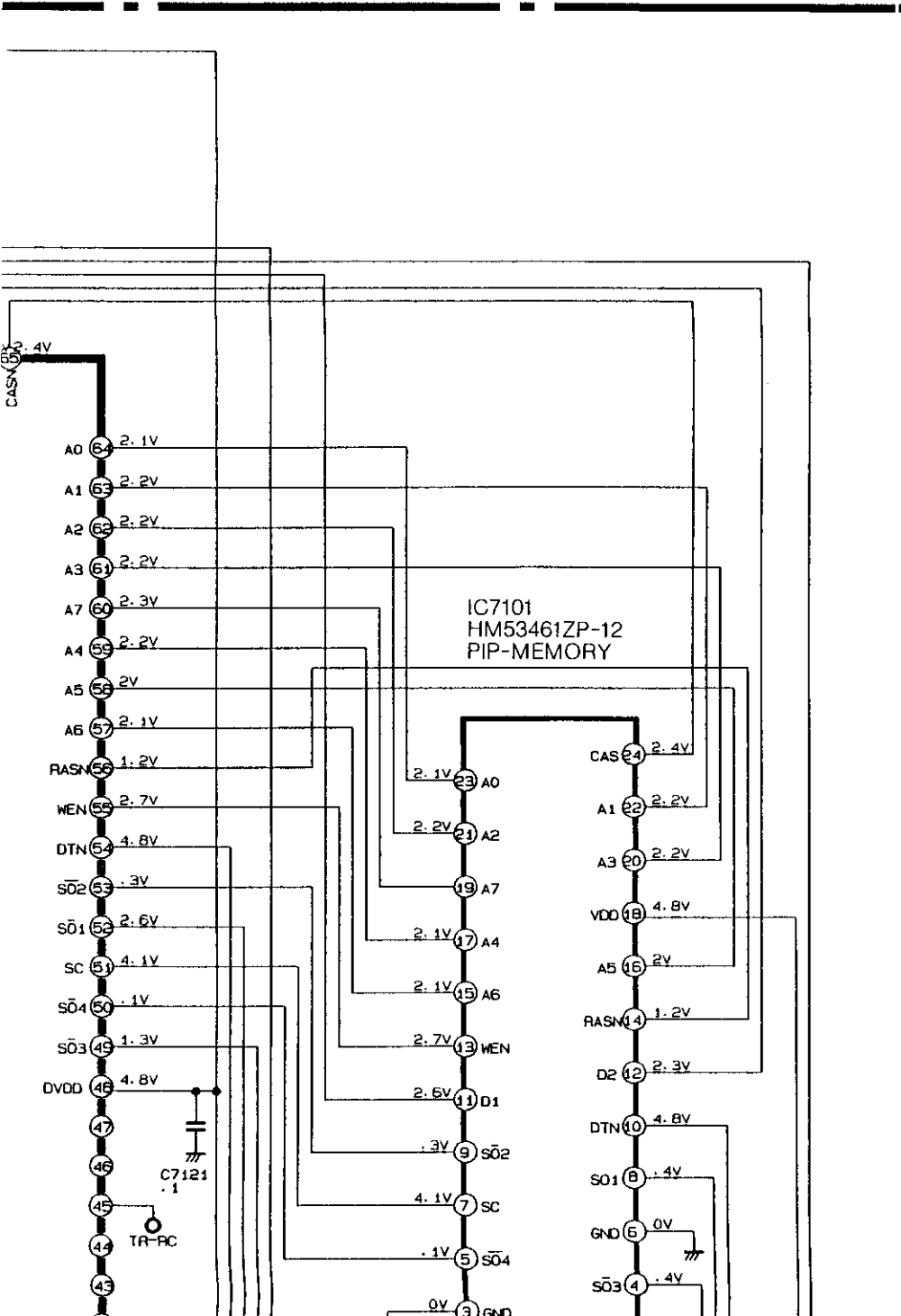
E
F
G
H
I
J

PCB-PIP

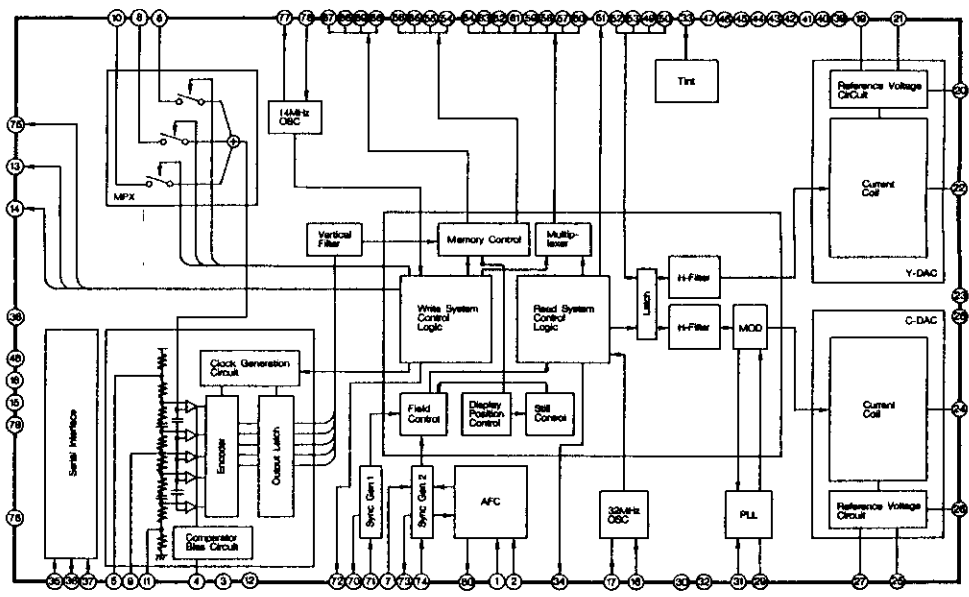




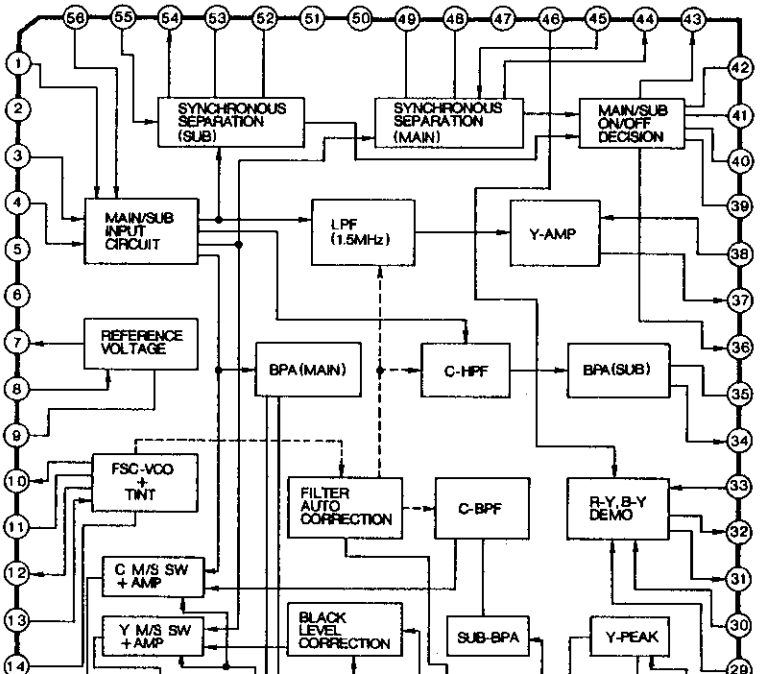
PCB-PIP

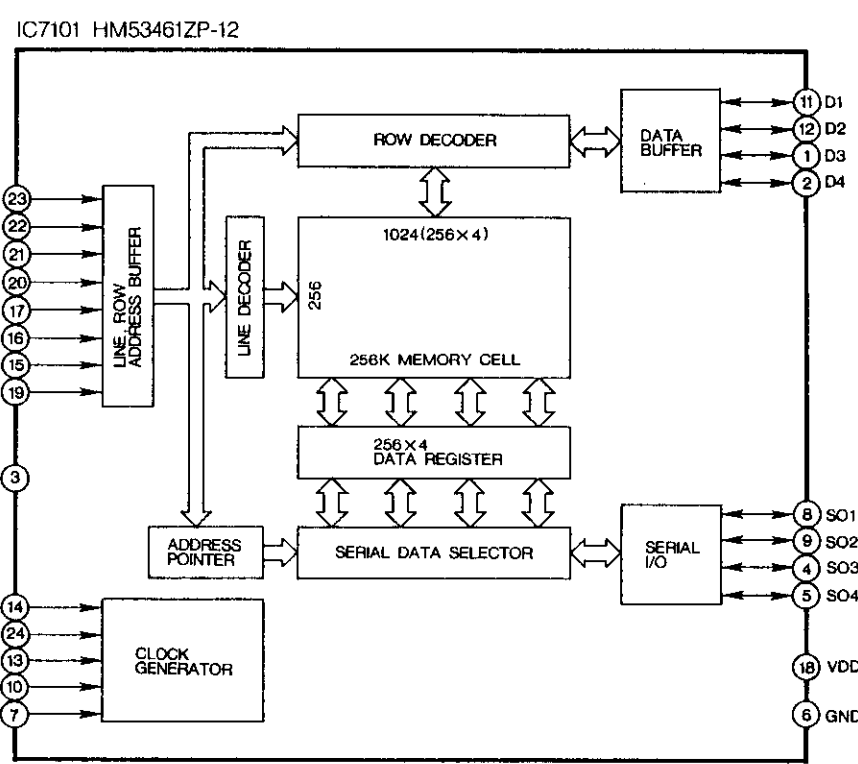
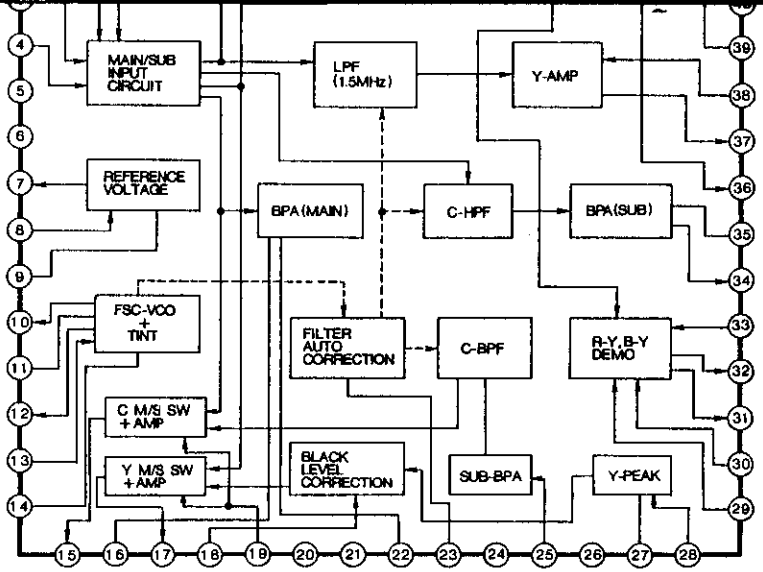
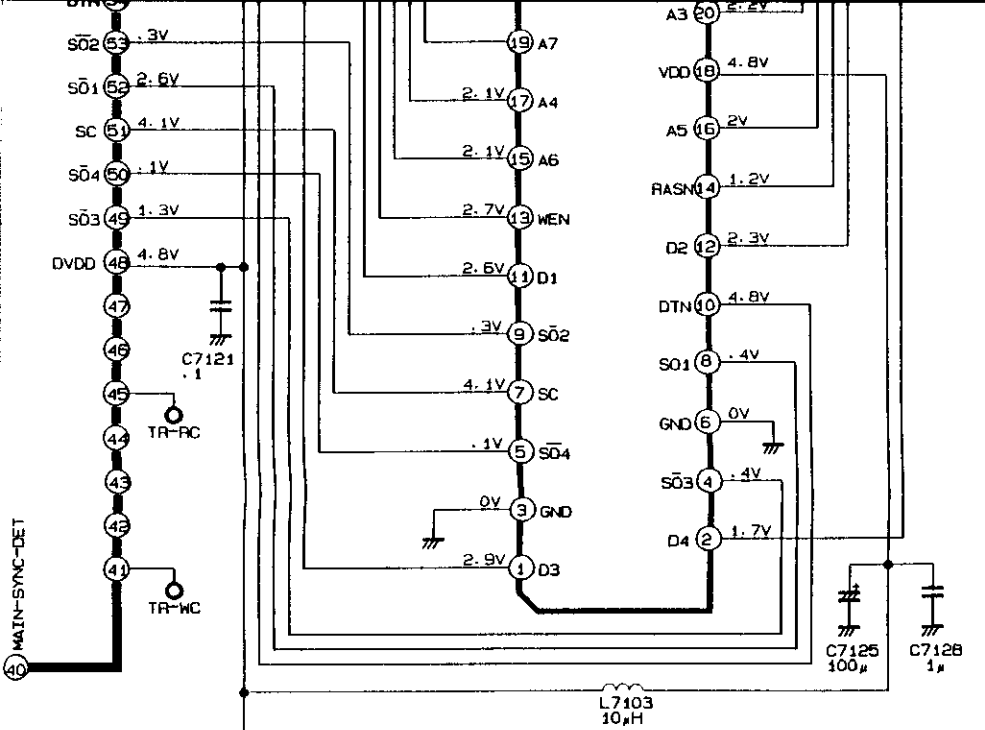


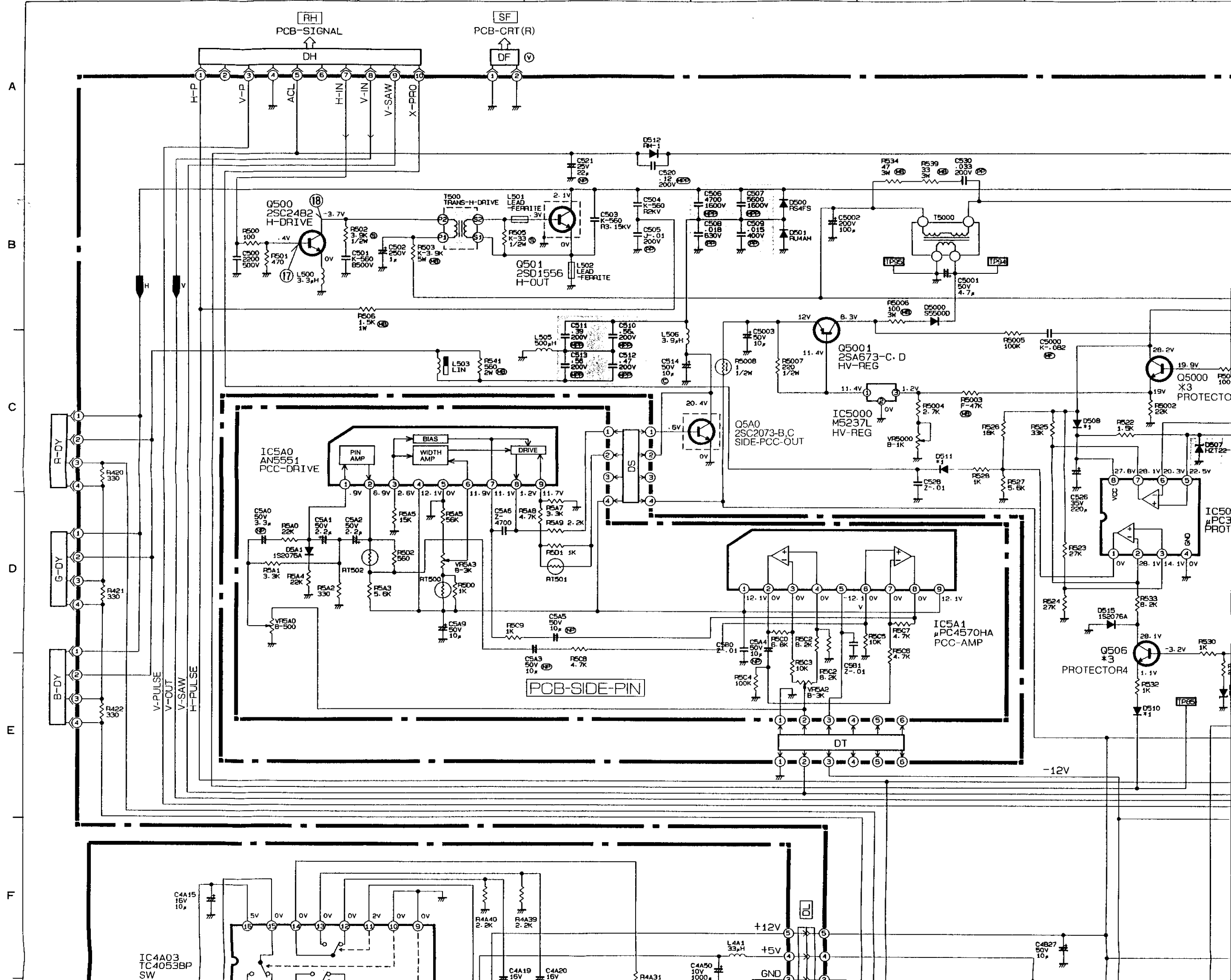
IC7100 HD49416FS

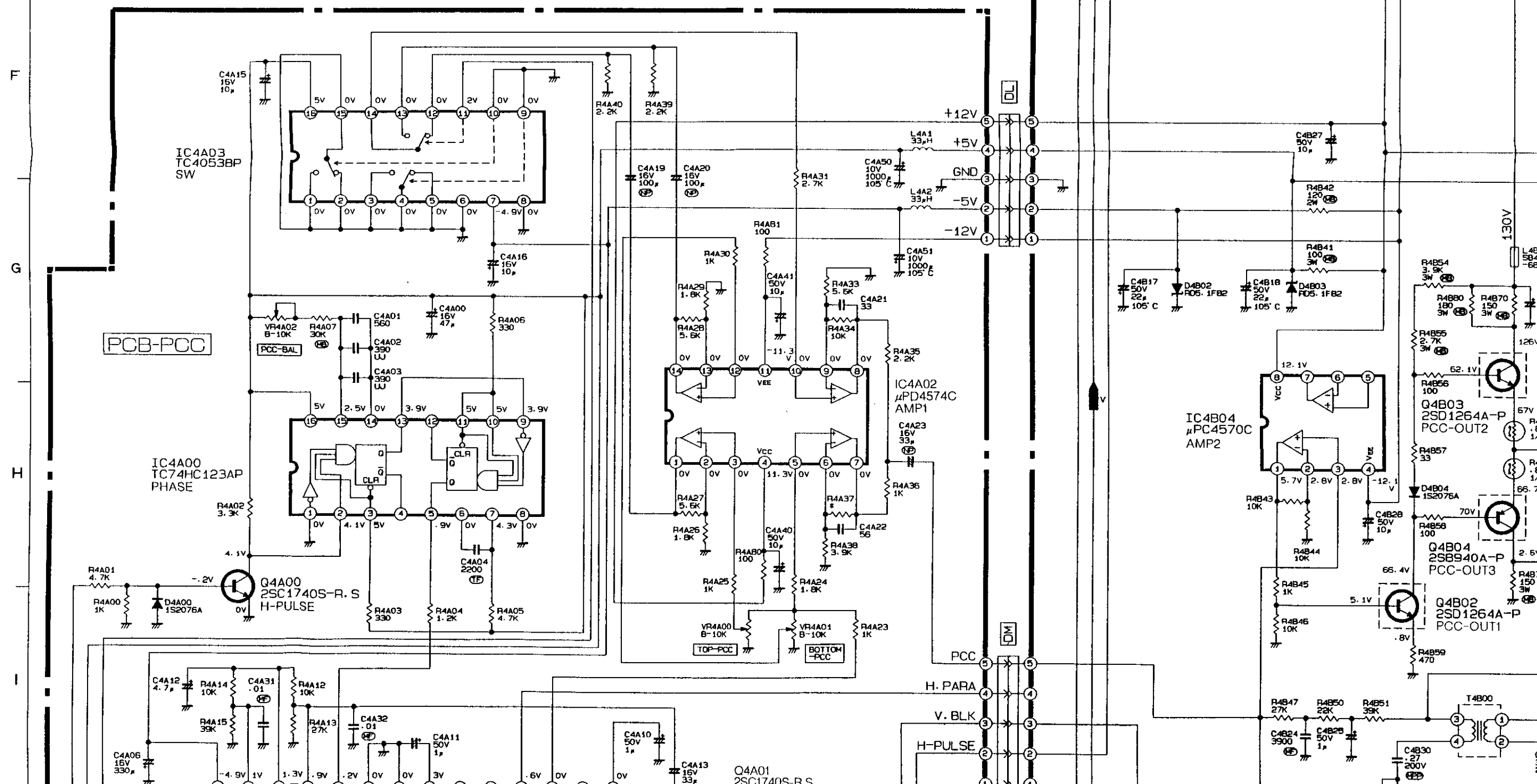
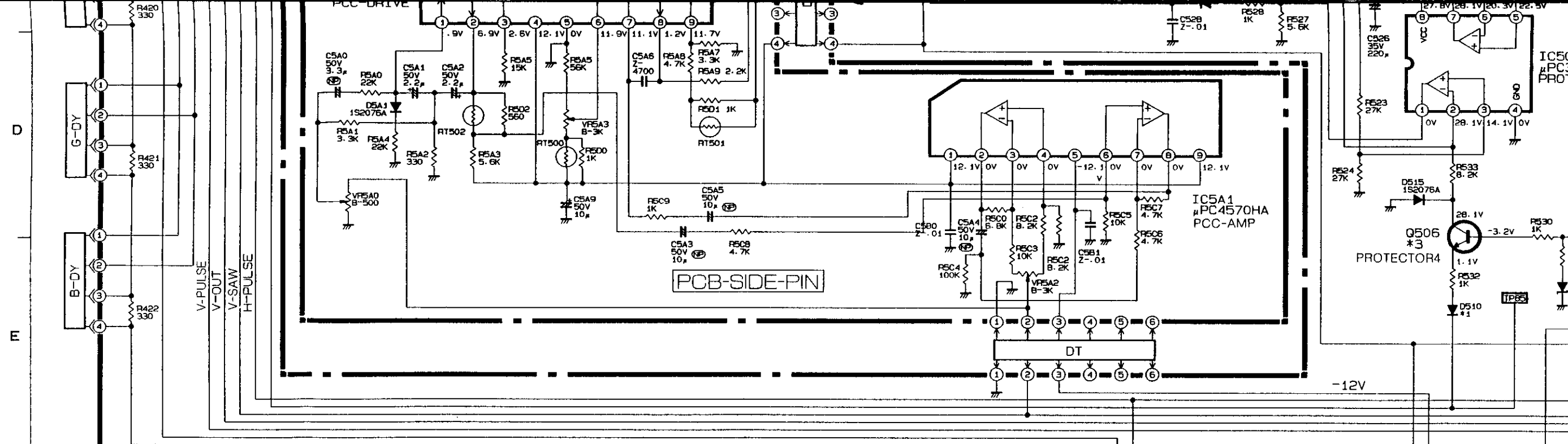


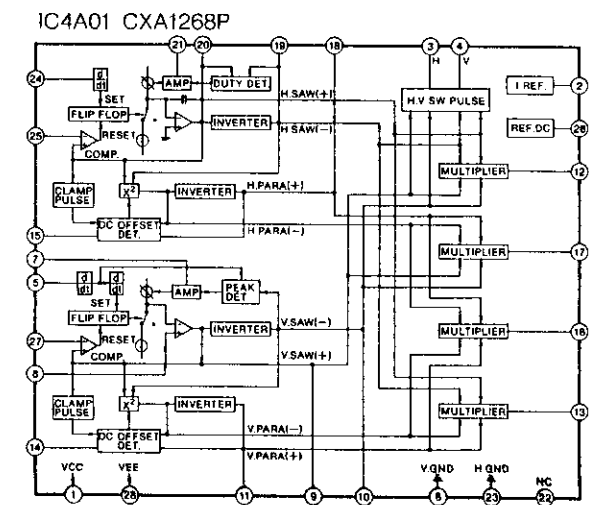
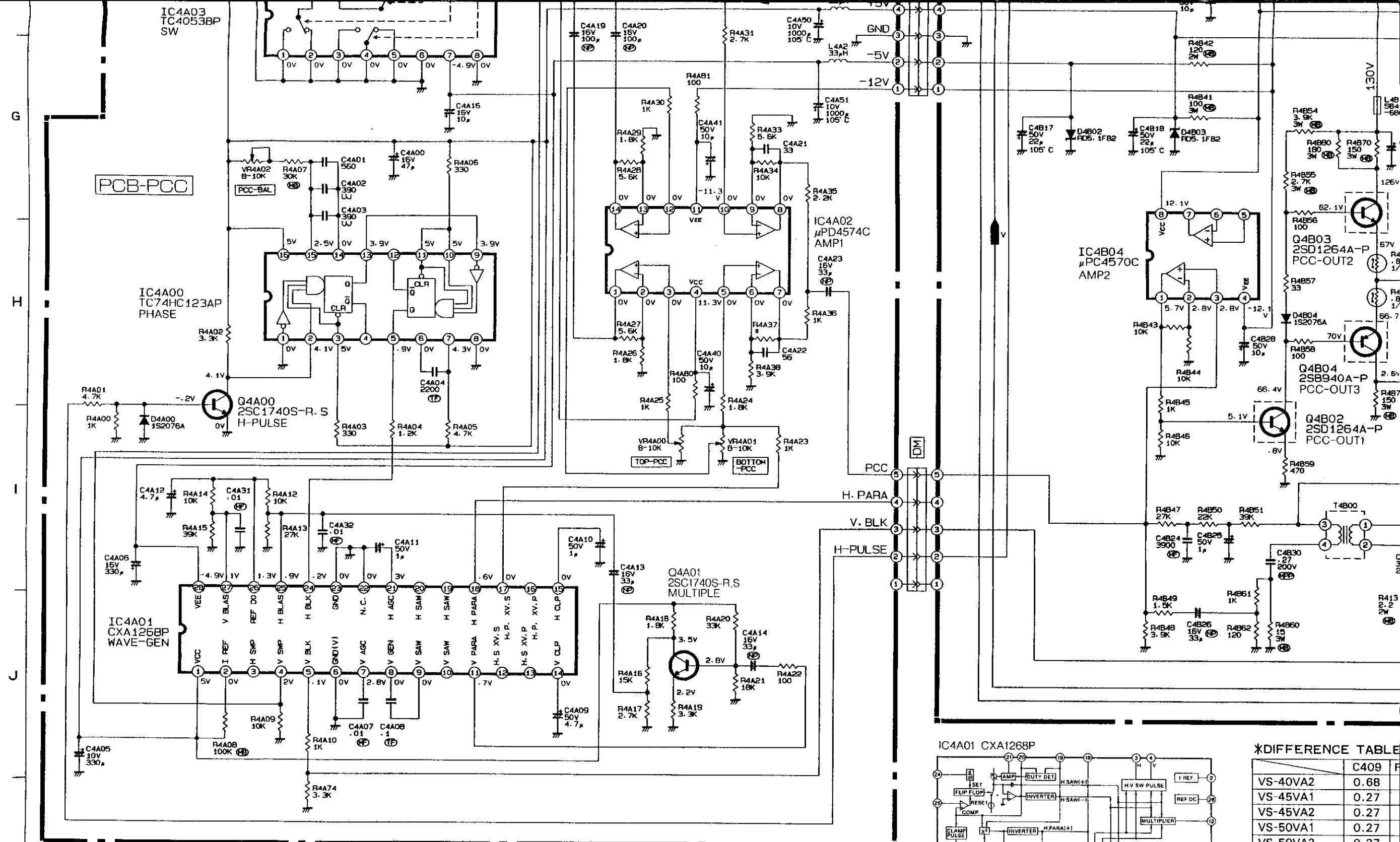
IC7000 HA11574FS









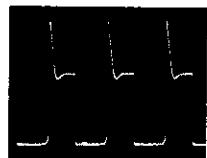


*DIFFERENCE TABLE

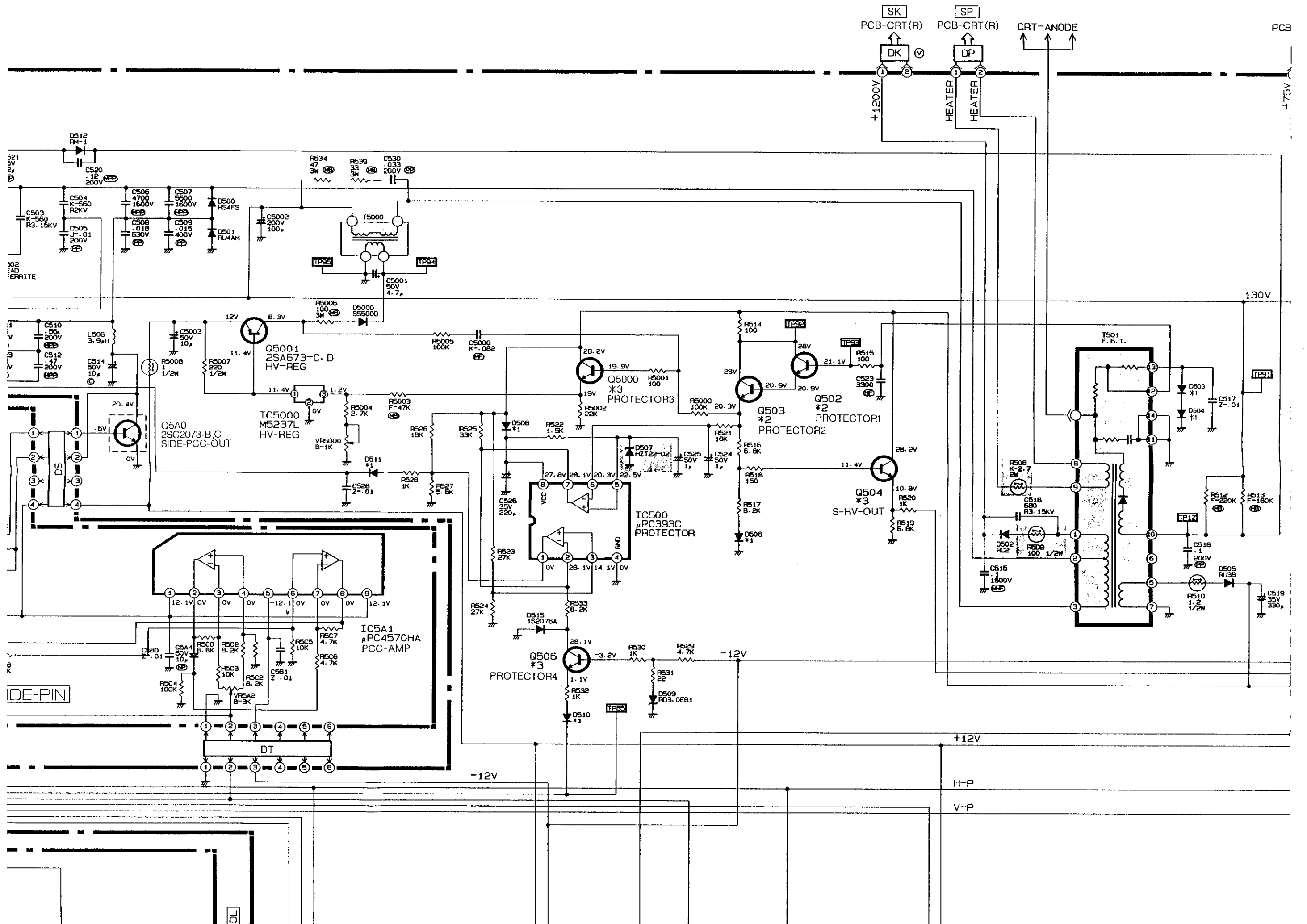
Model	C409	F
VS-40VA2	0.68	
VS-45VA1	0.27	
VS-45VA2	0.27	
VS-50VA1	0.27	
VS-50VA2	0.27	
VS-60VA2	0.27	
VS-45VA2CA	0.27	
VS-50VA2CA	0.27	
VS-60VA2CA	0.27	

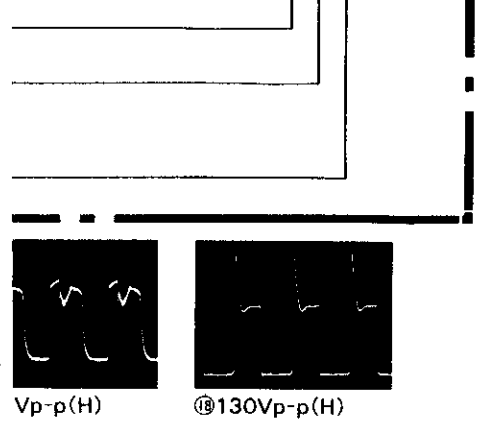
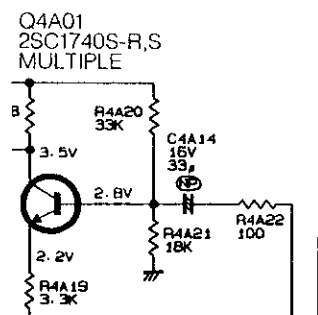
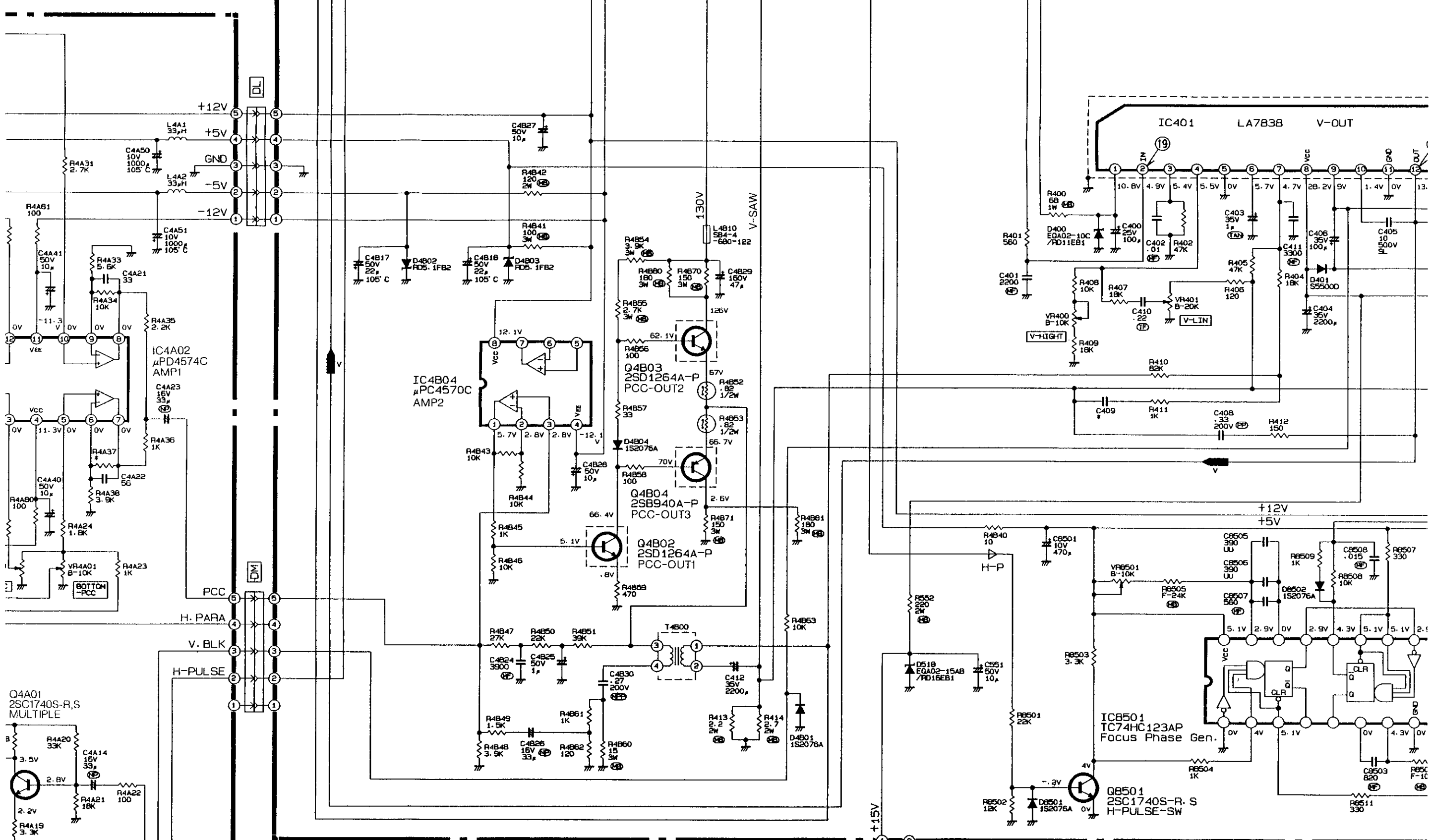


⑦ 1.1Vp-p(H)



⑧ 130Vp-p(H)

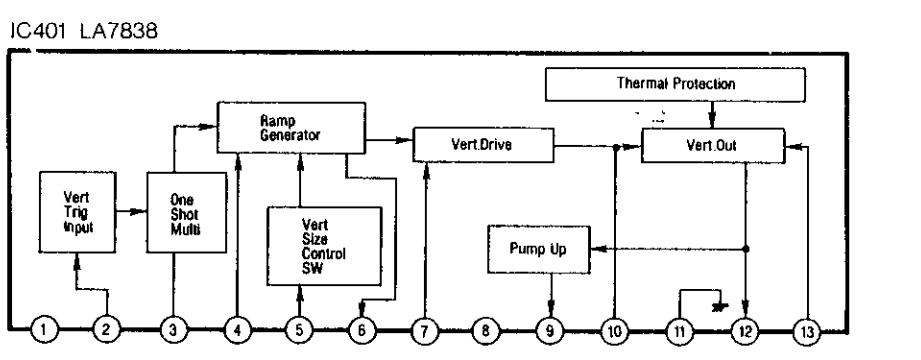
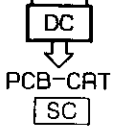


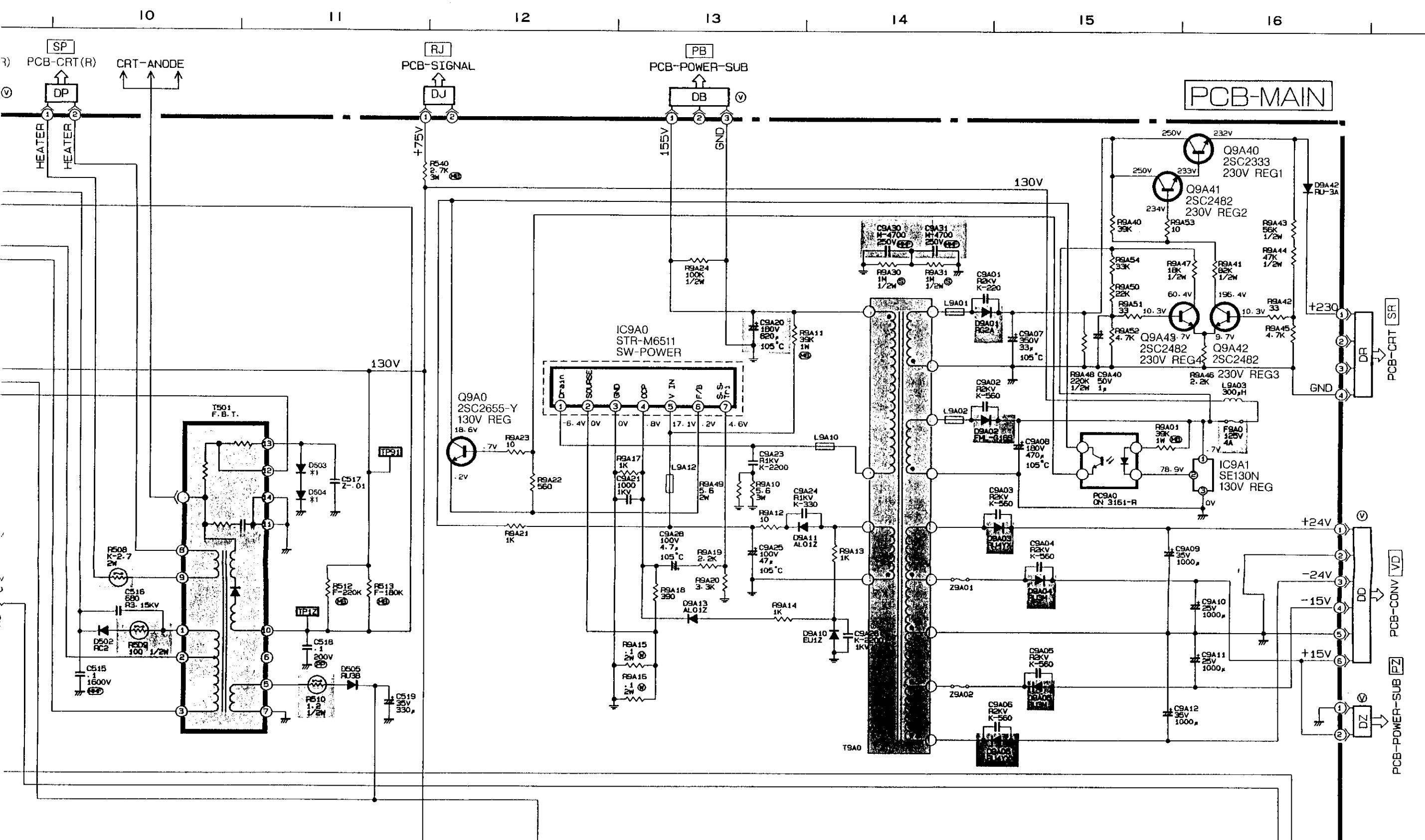


Vp-p(H) ⑬130Vp-p(H)

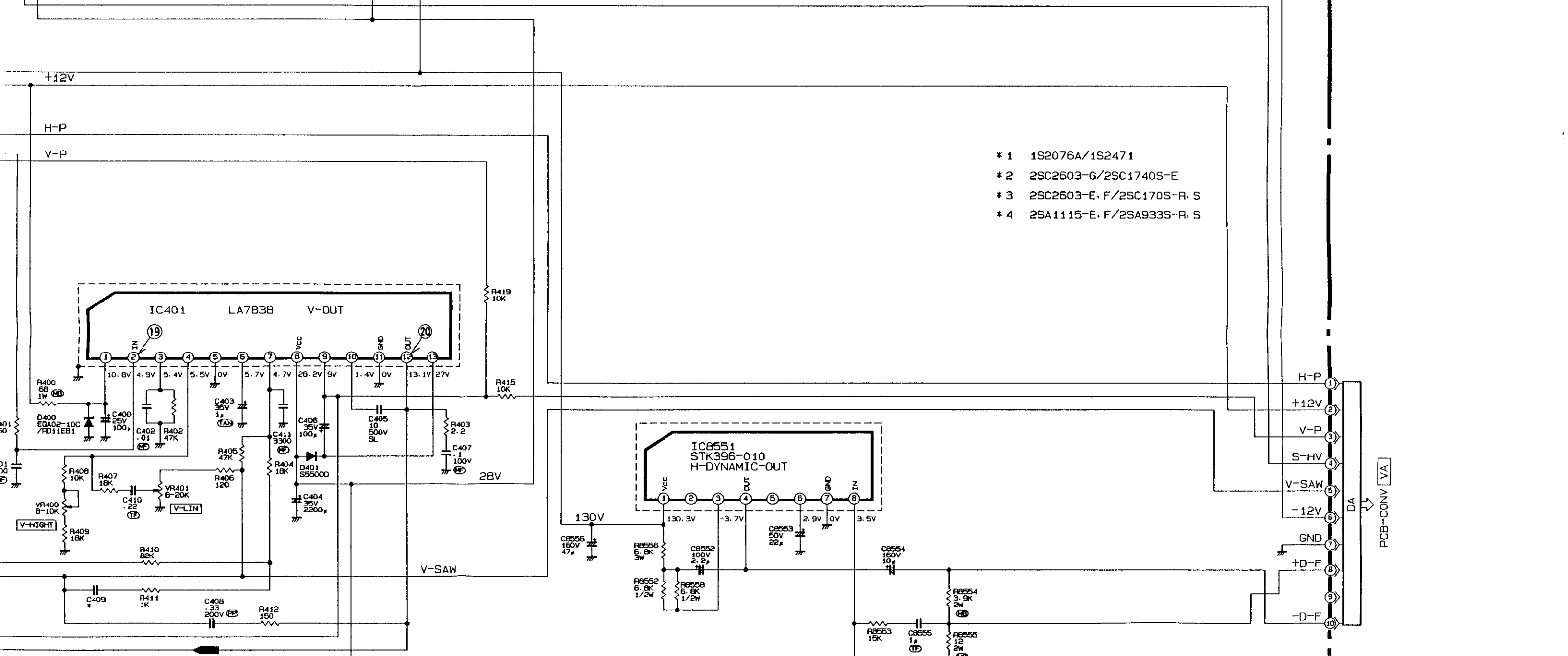
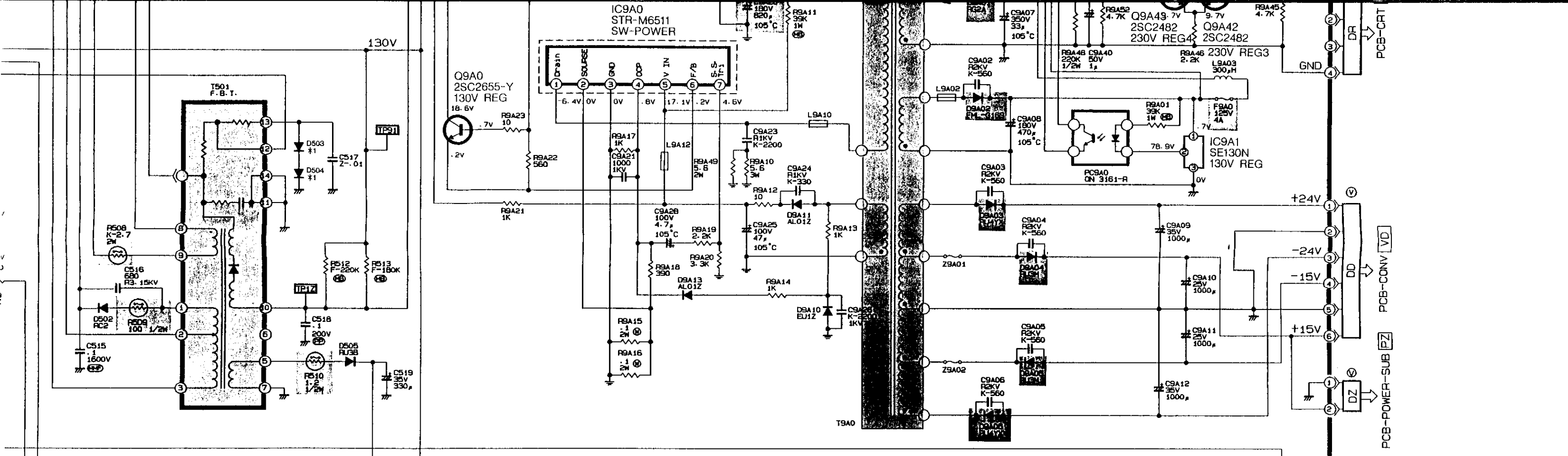
***DIFFERENCE TABLE**

	C409	R4A37	R8551
VS-40VA2	0.68	10K	5.1K
VS-45VA1	0.27	22K	6.8K
VS-45VA2	0.27	22K	6.8K
VS-50VA1	0.27	22K	6.8K
VS-50VA2	0.27	22K	6.8K
VS-60VA2	0.27	22K	6.8K
VS-45VA2CA	0.27	22K	6.8K
VS-50VA2CA	0.27	22K	6.8K
VS-60VA2CA	0.27	22K	6.8K



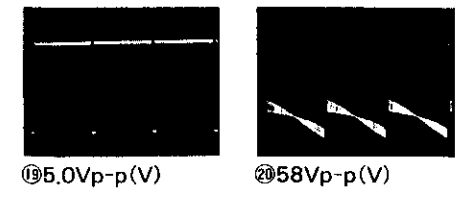
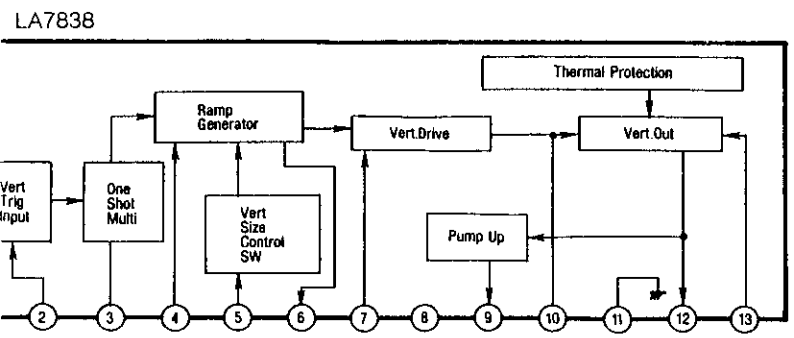
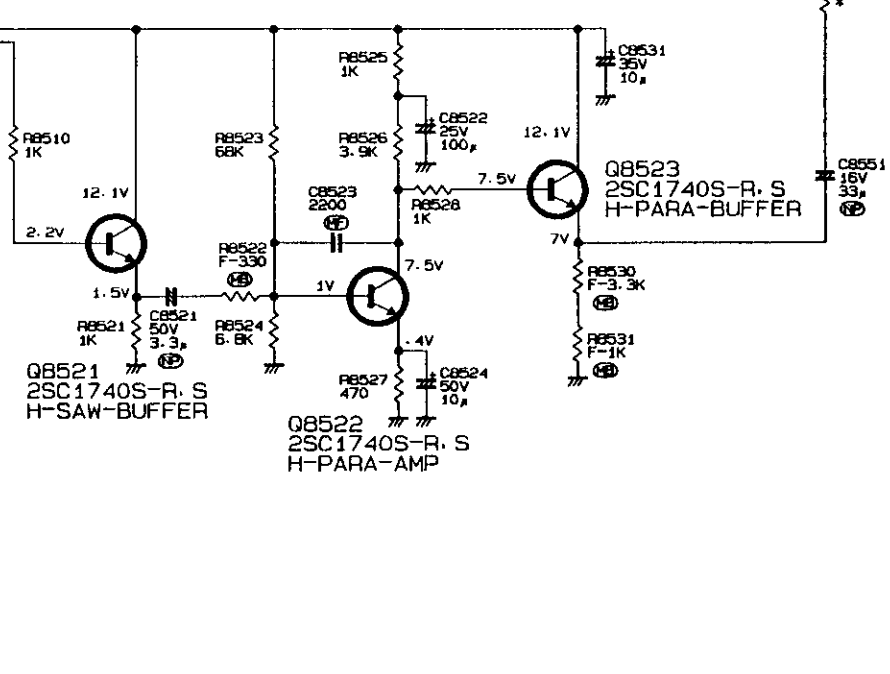
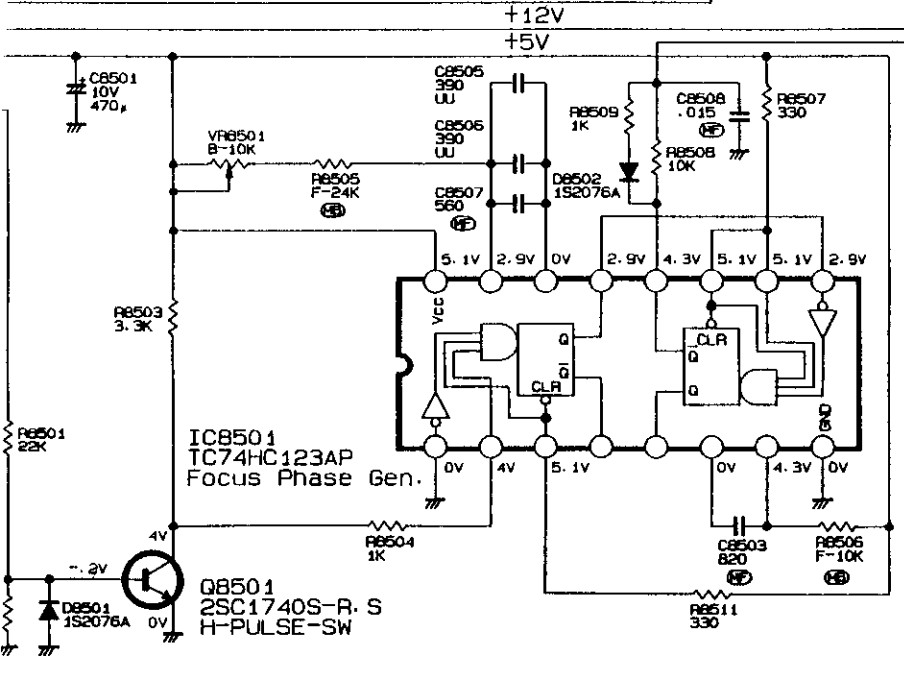
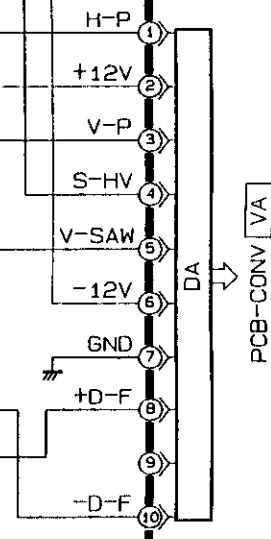
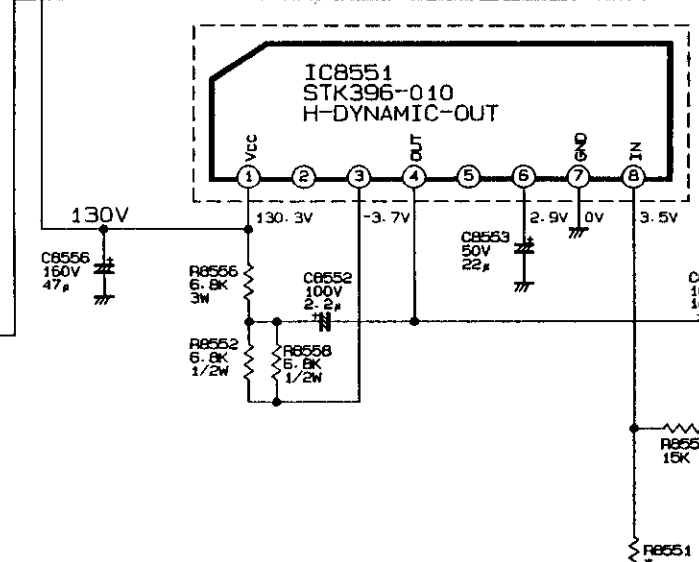
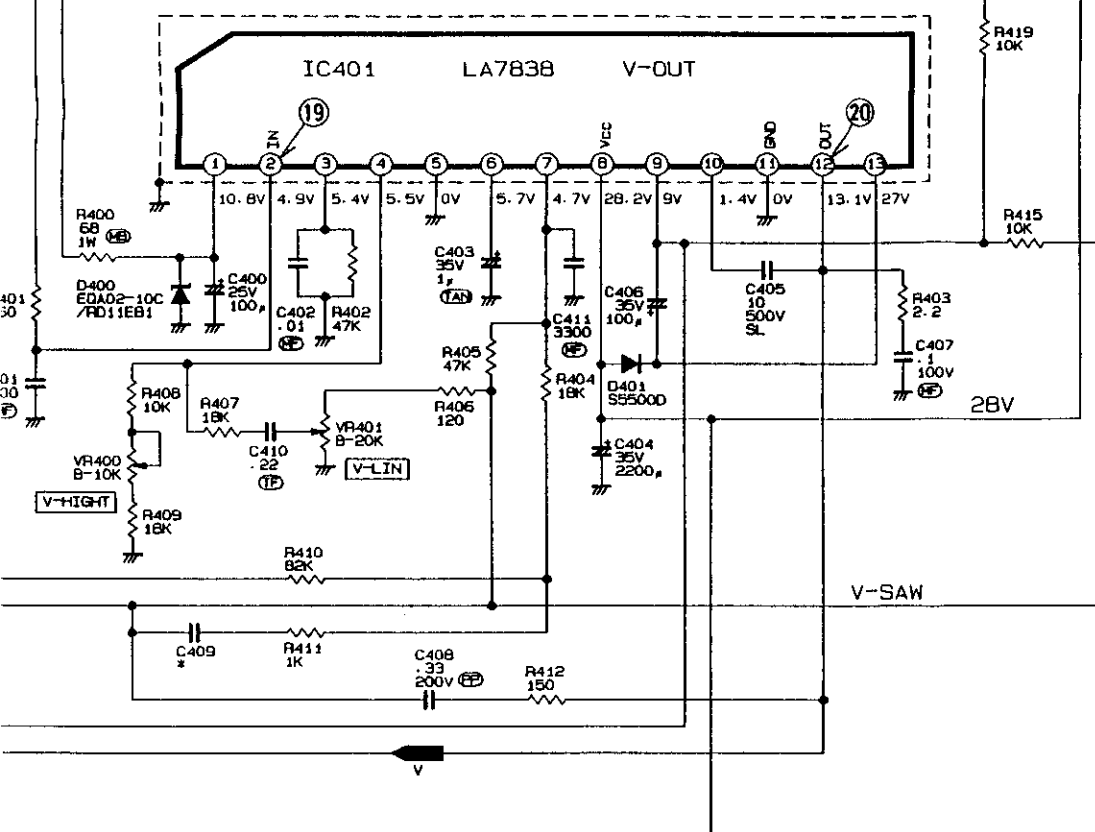


- * 1 1S2076A/1S2471
- * 2 2SC2603-G/2SC1740S-E
- * 3 2SC2603-E, F/2SC170S-R, S
- * 4 2SA1115-E, F/2SA933S-R, S

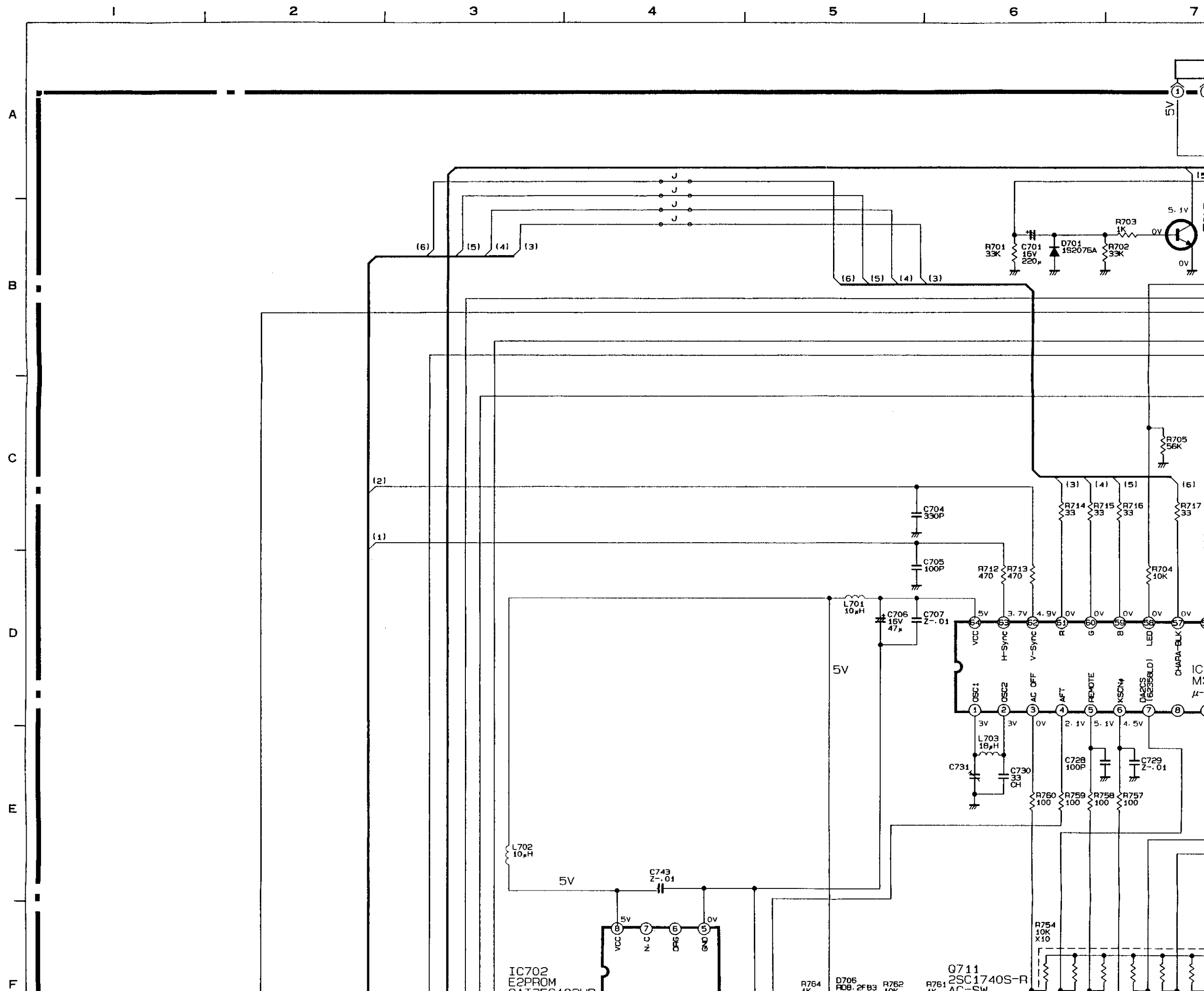


- * 1 1S2076A/1S2471
- * 2 2SC2603-G/2SC1740S-E
- * 3 2SC2603-E, F/2SC170S-R, S
- * 4 2SA1115-E, F/2SA933S-R, S

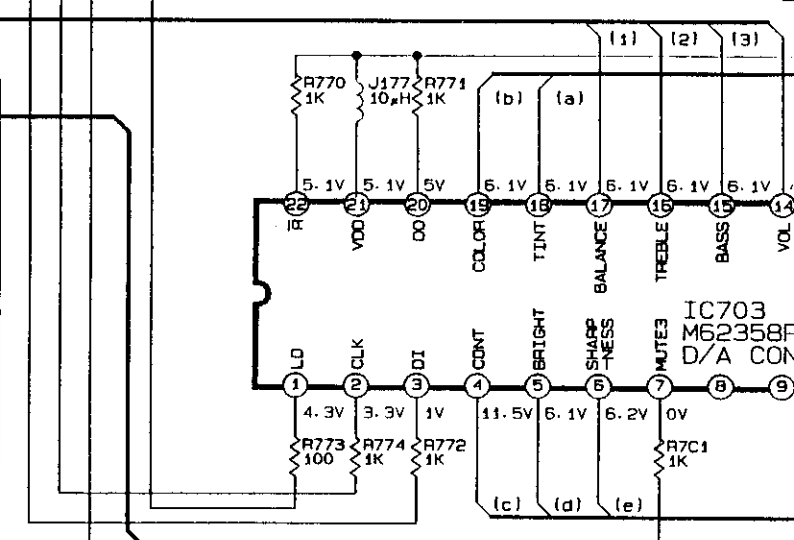
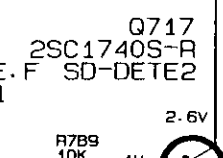
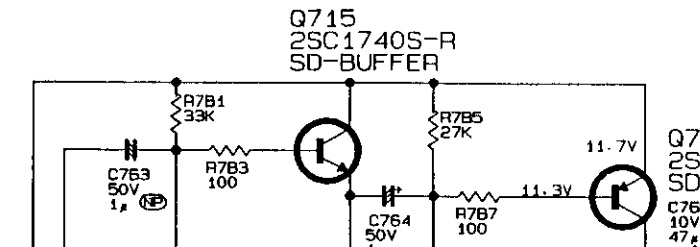
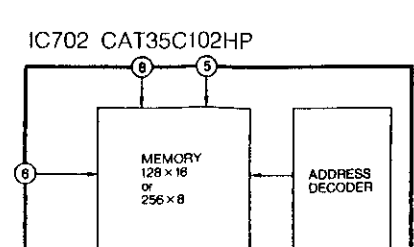
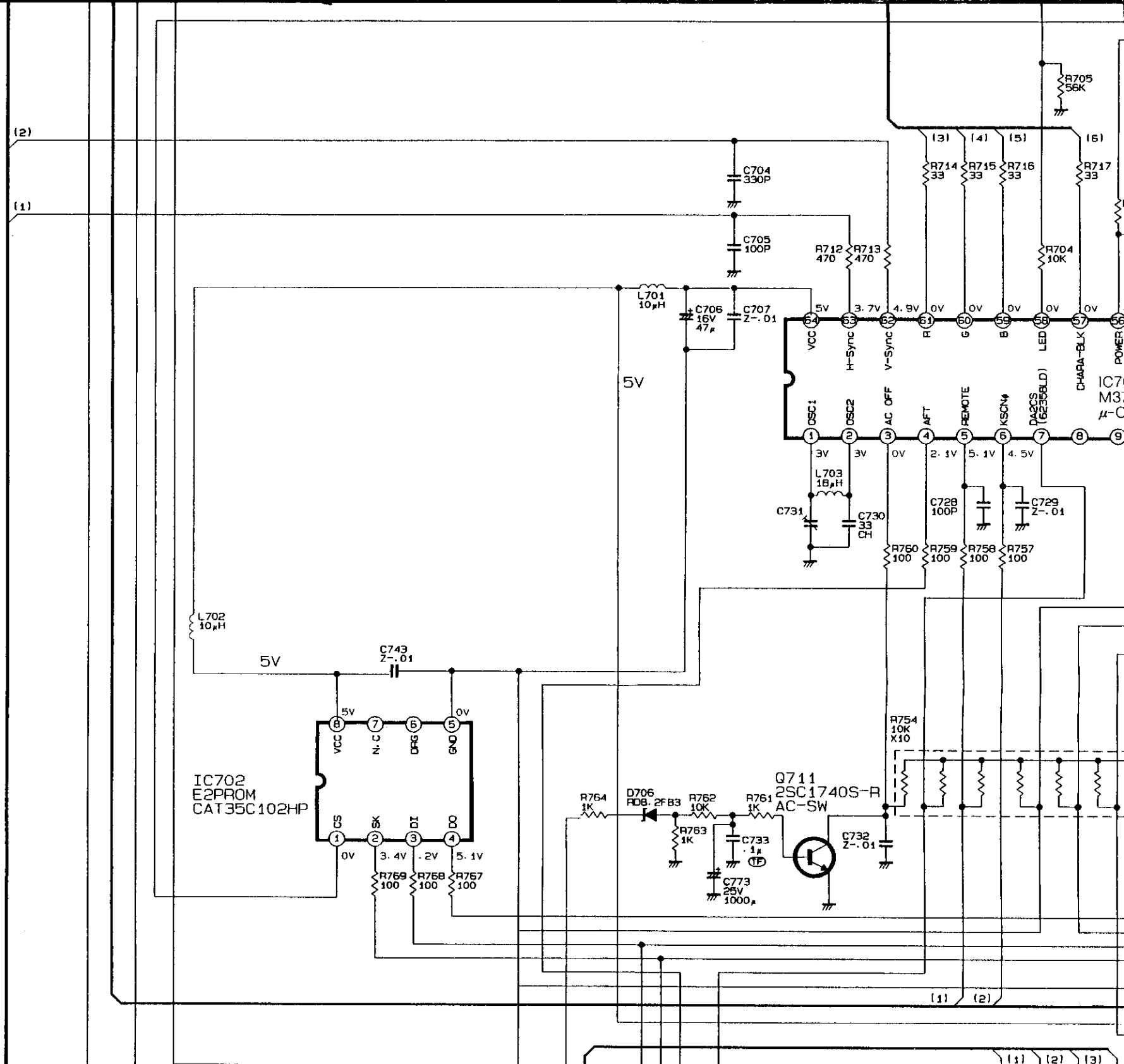
* 3 2SC2603-E, F / 2SC1705-R, S
 * 4 2SA1115-E, F / 2SA933S-R, S



- VS-40VA2
- VS-45VA1
- VS-45VA2
- VS-50VA1
- VS-50VA2
- VS-60VA2
- VS-45VA2CA
- VS-50VA2CA
- VS-60VA2CA(2/6)



C
D
E
F
G
H
I



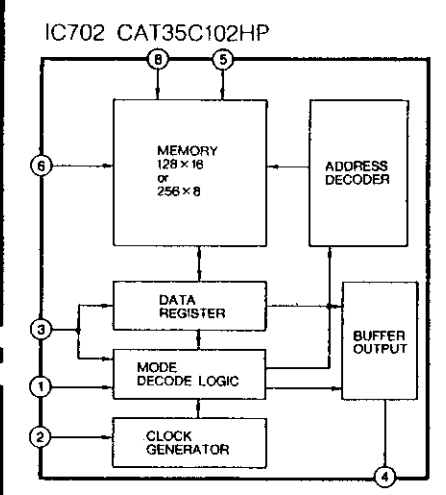
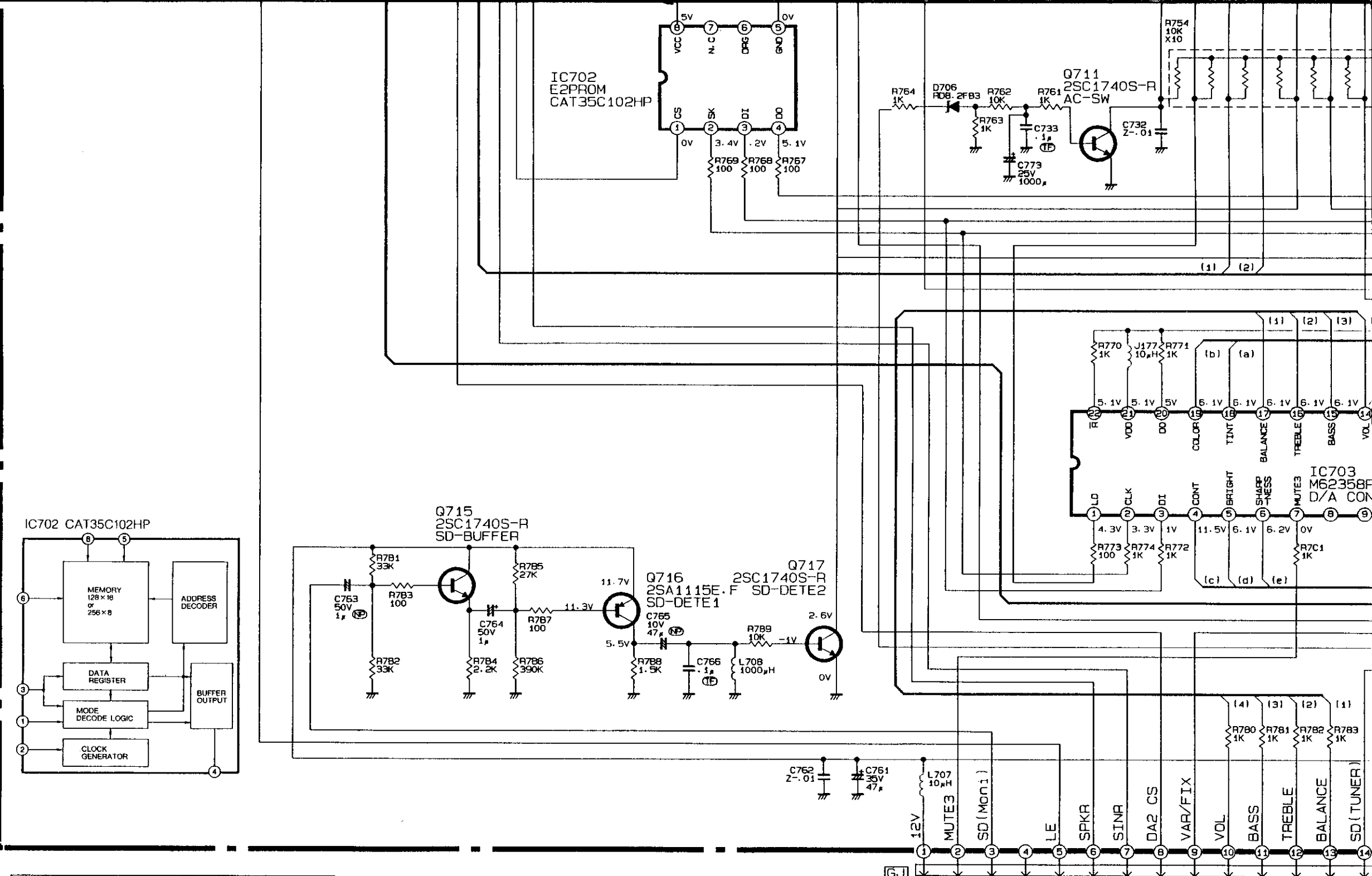
F

G

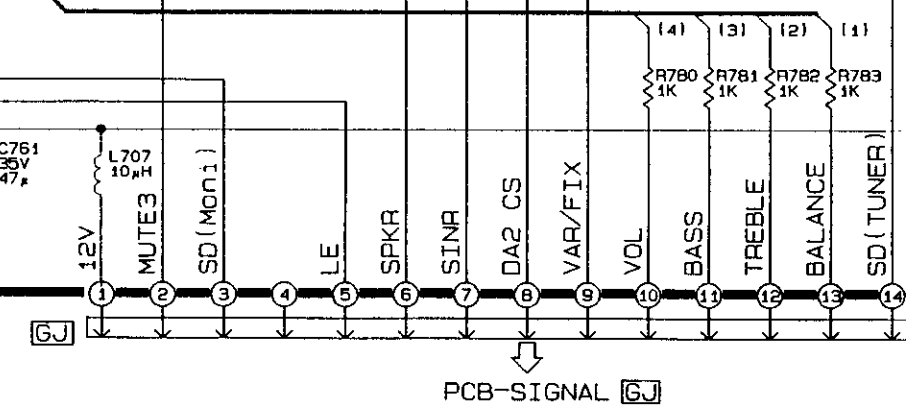
H

I

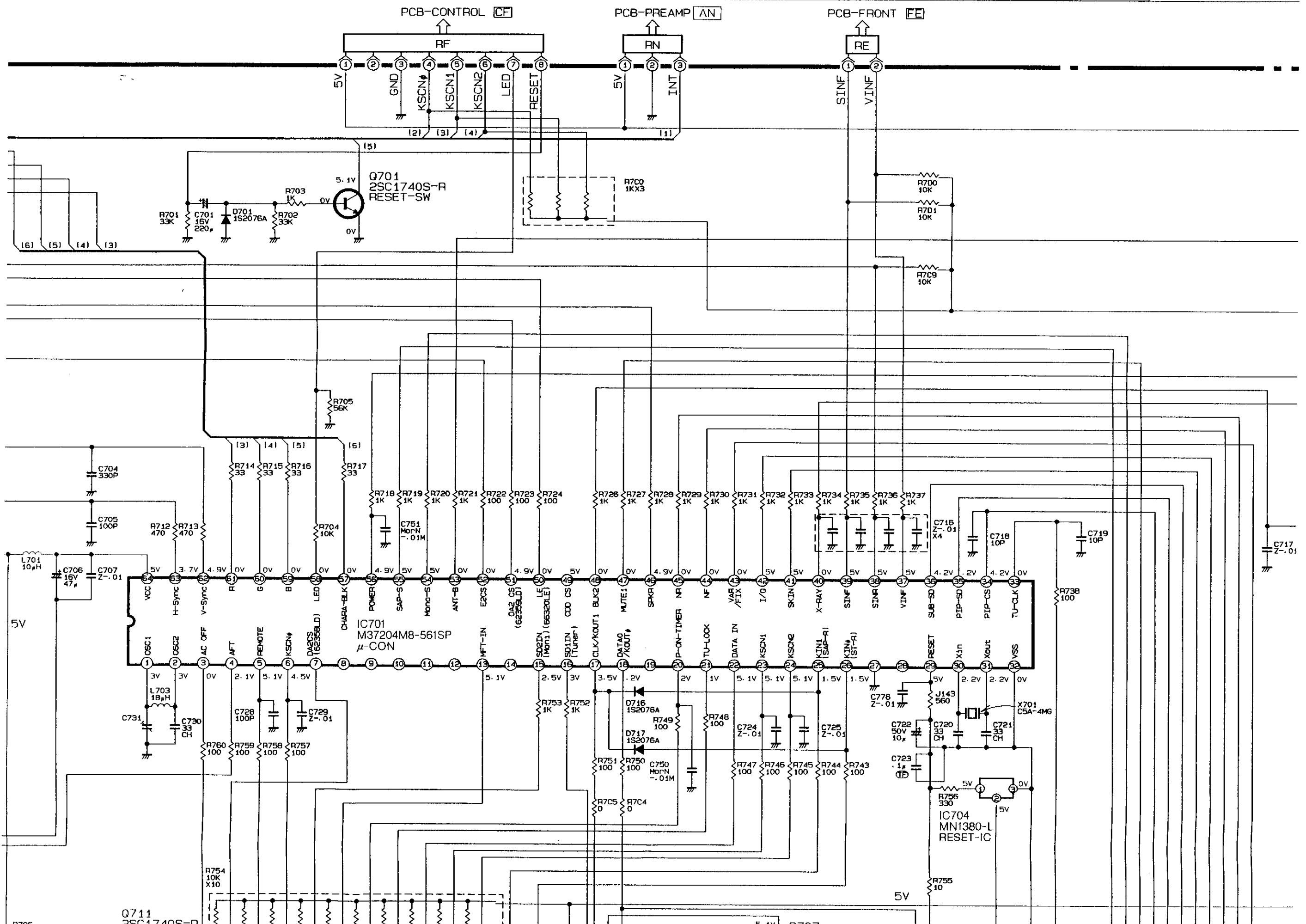
J

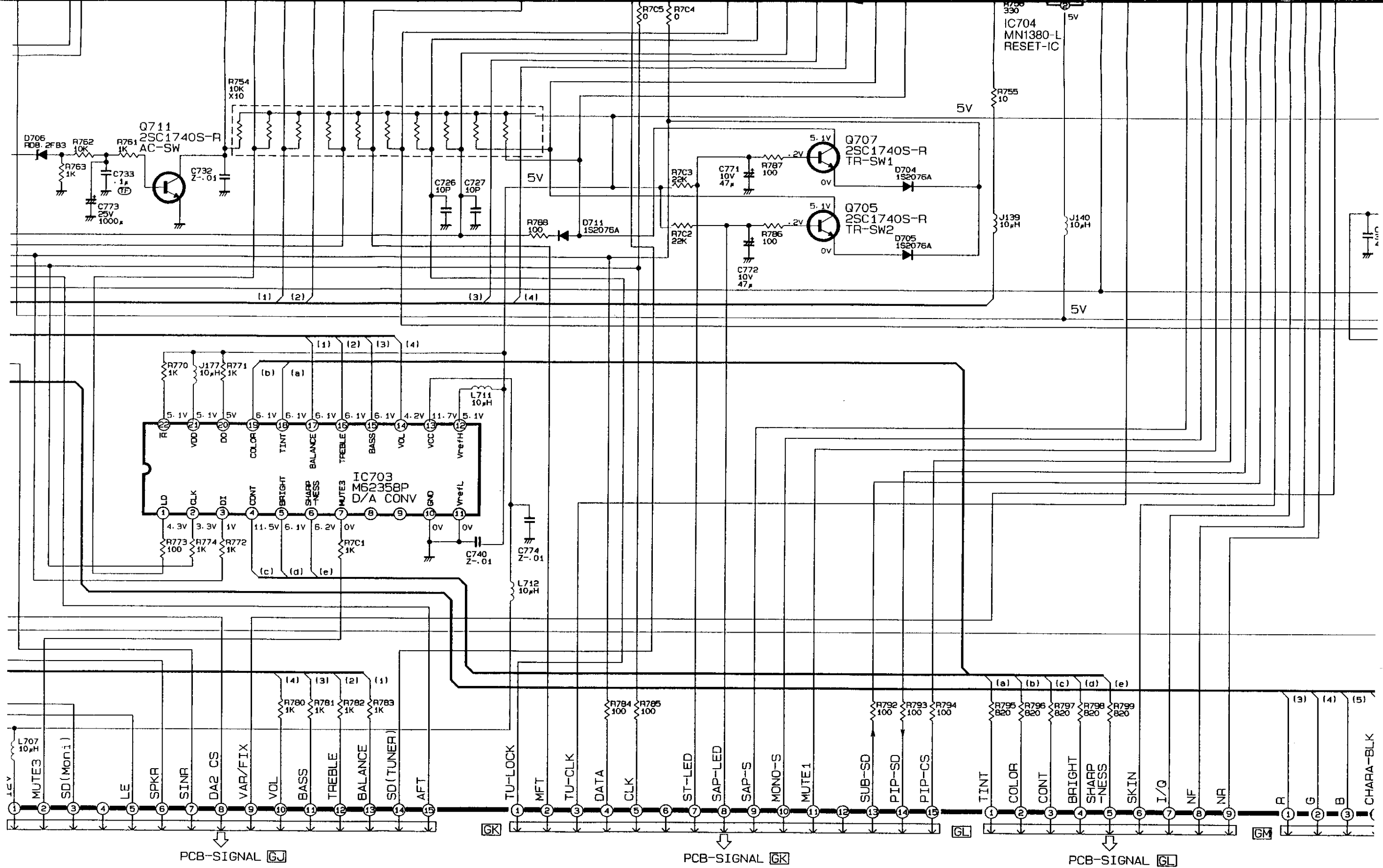


PCB-μ-COM



PCB-SIGNAL [GJ]



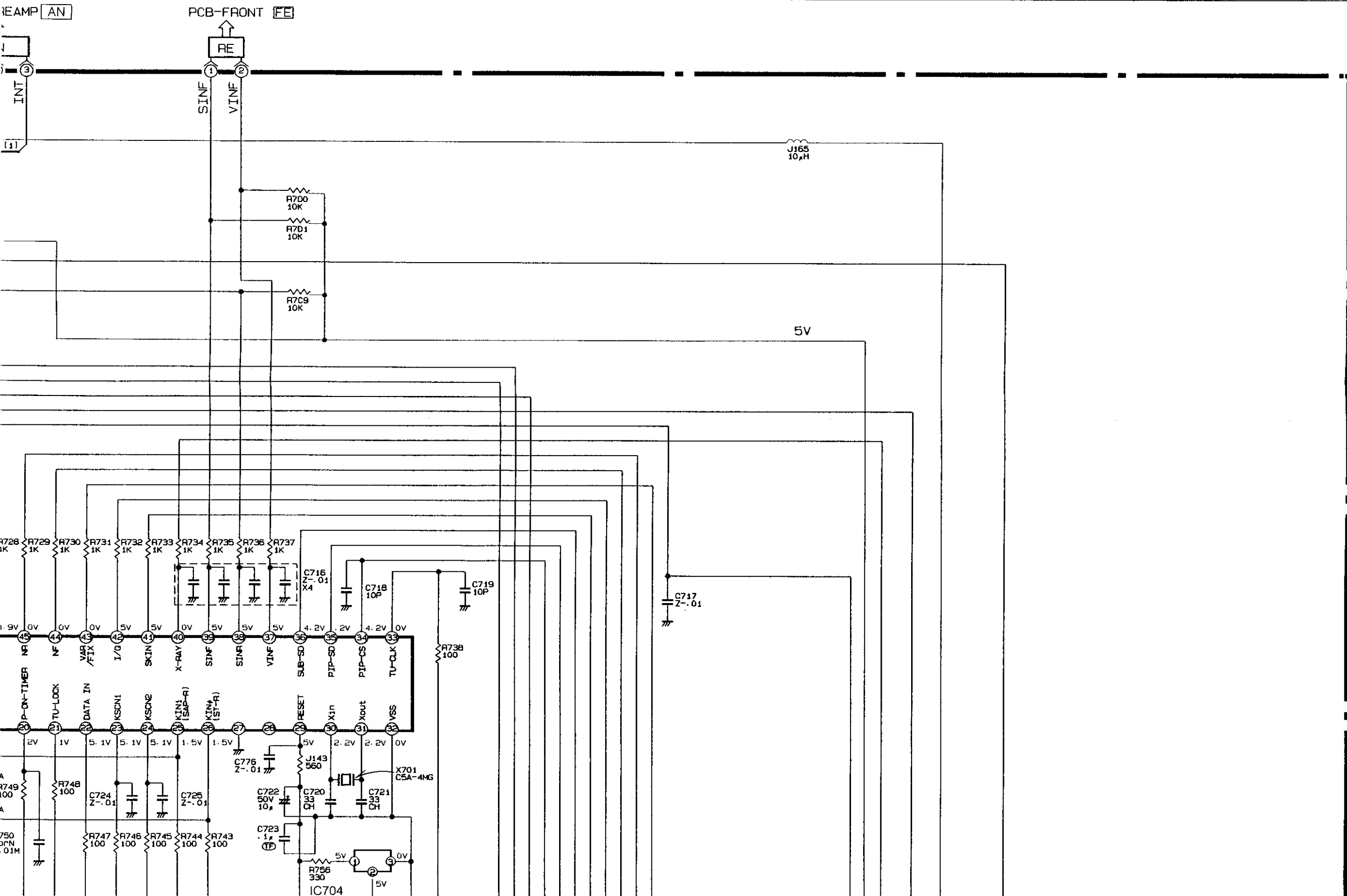


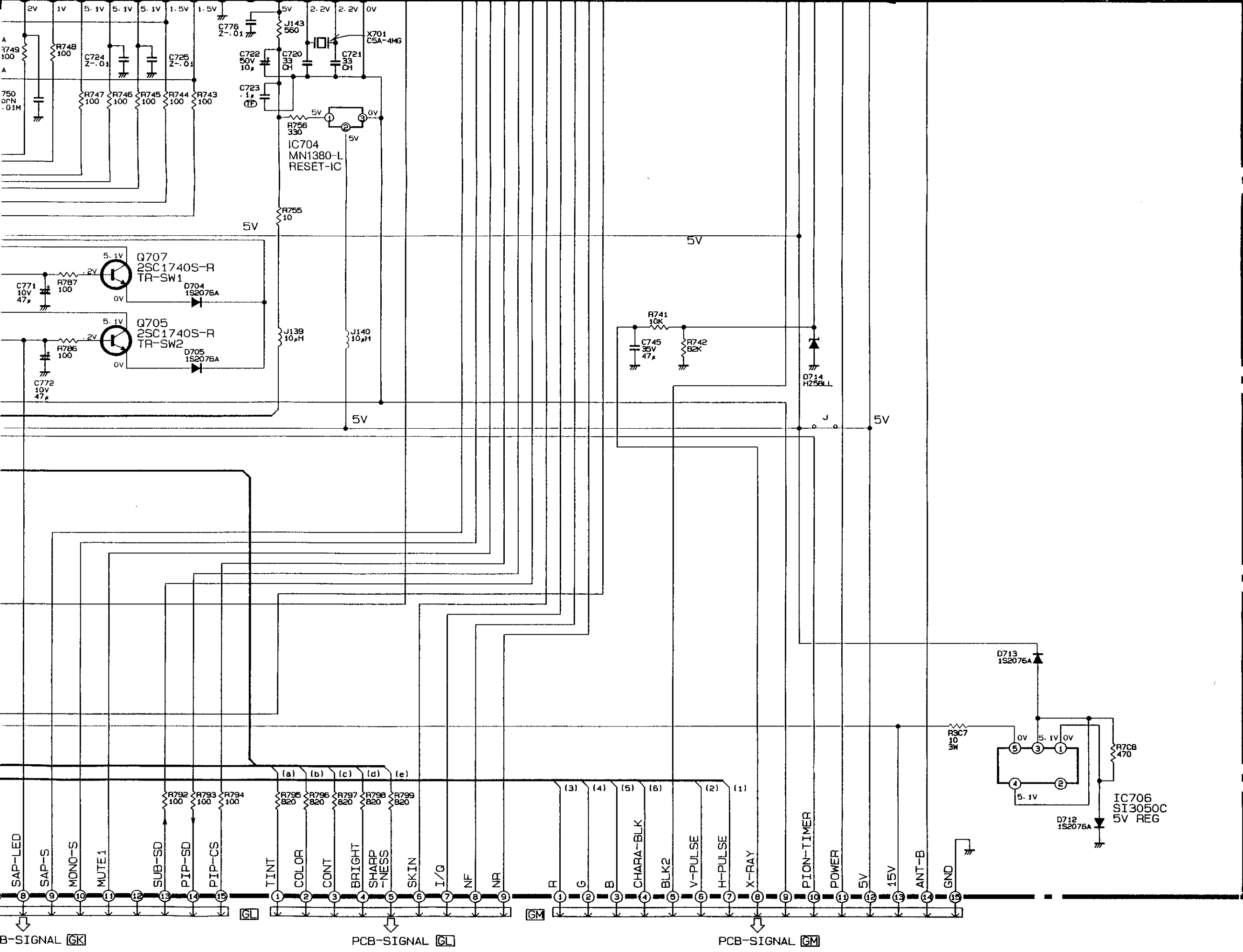
PCB-SIGNAL **GJ**

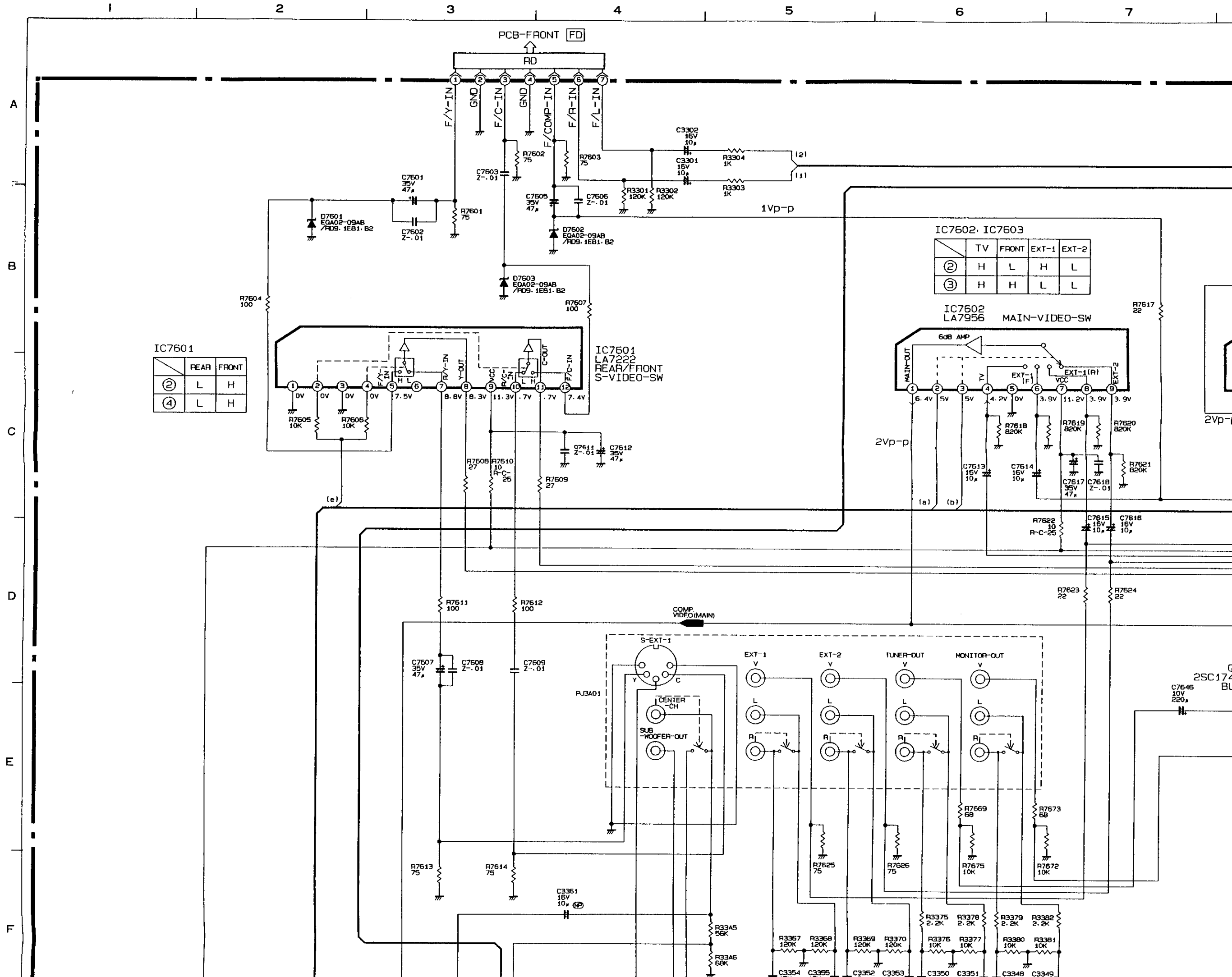
PCB-SIGNAL **GK**

PCB-SIGNAL **GL**

GM







IC7601

	REAR	FRONT
②	L	H
④	L	H

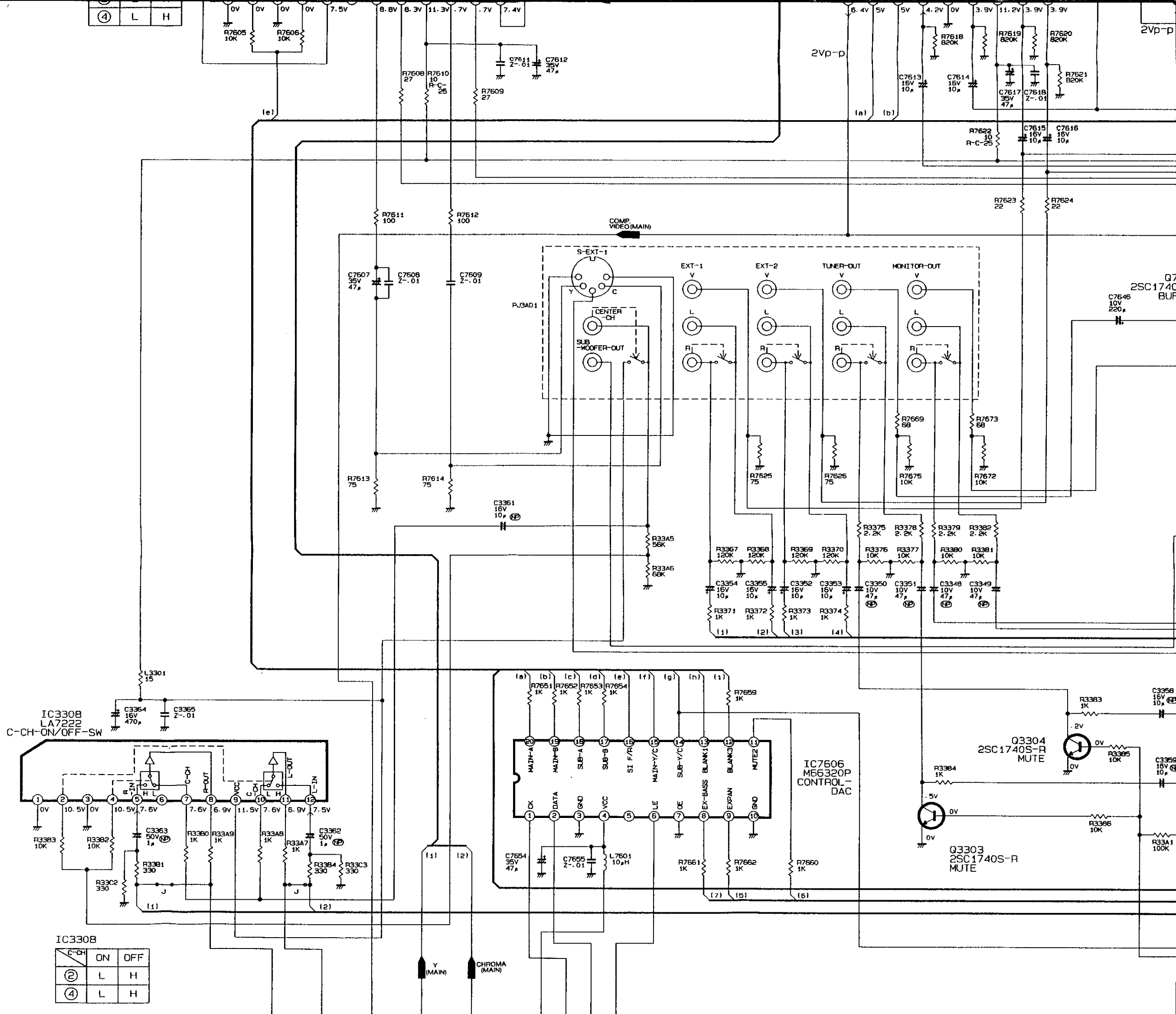
IC7602, IC7603

	TV	FRONT	EXT-1	EXT-2
②	H	L	H	L
③	H	H	L	L

IC7602
LA7956
MAIN-VIDEO-SW

Q7
2SC1740
BUF

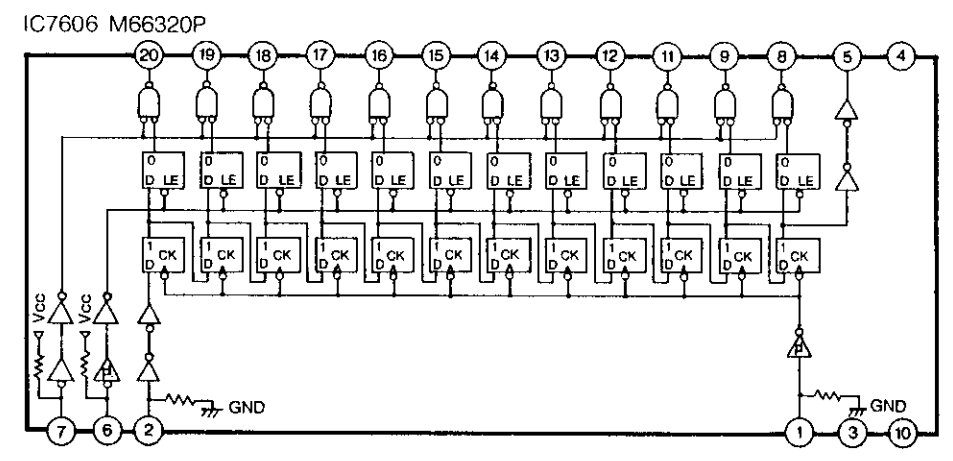
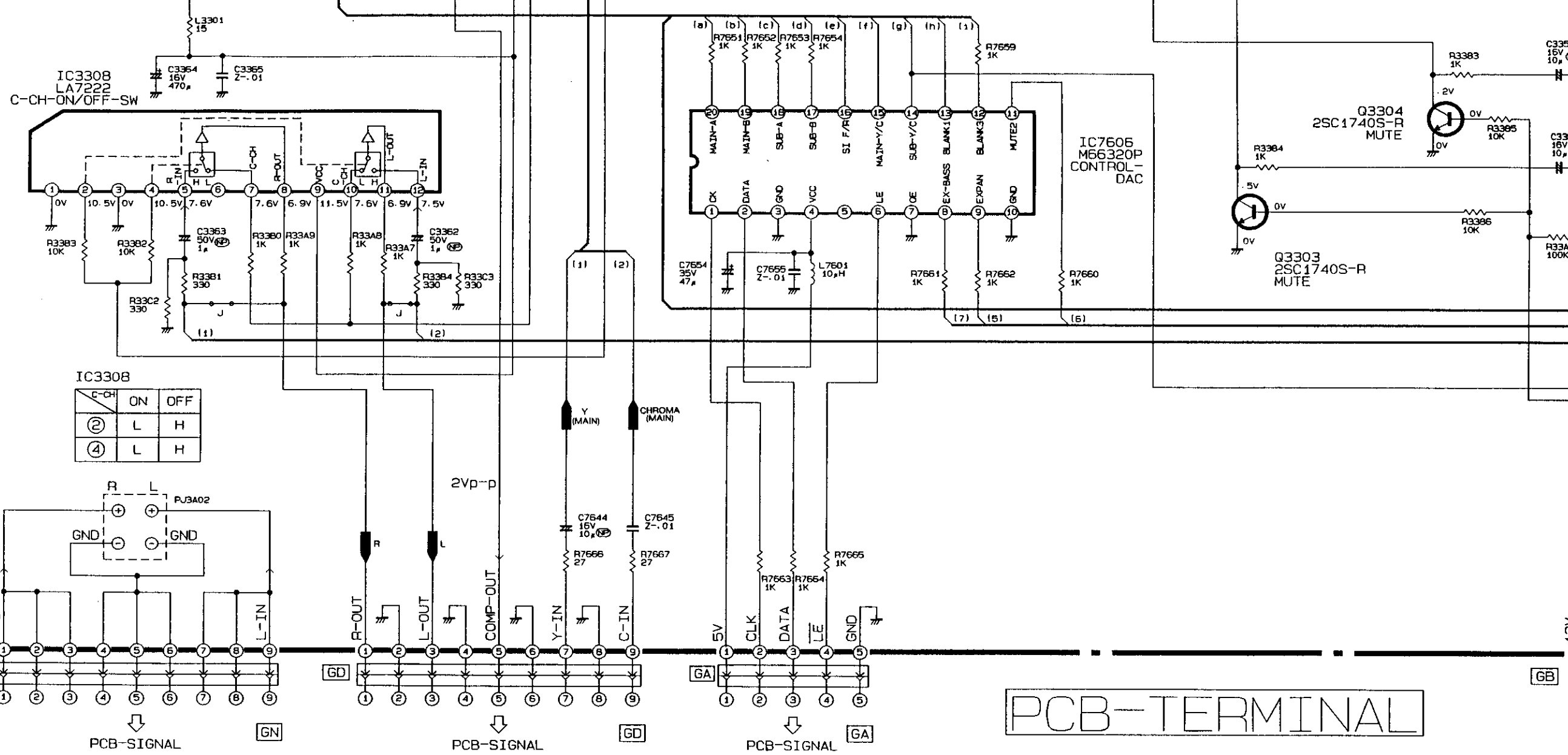
C
D
E
F
G
H

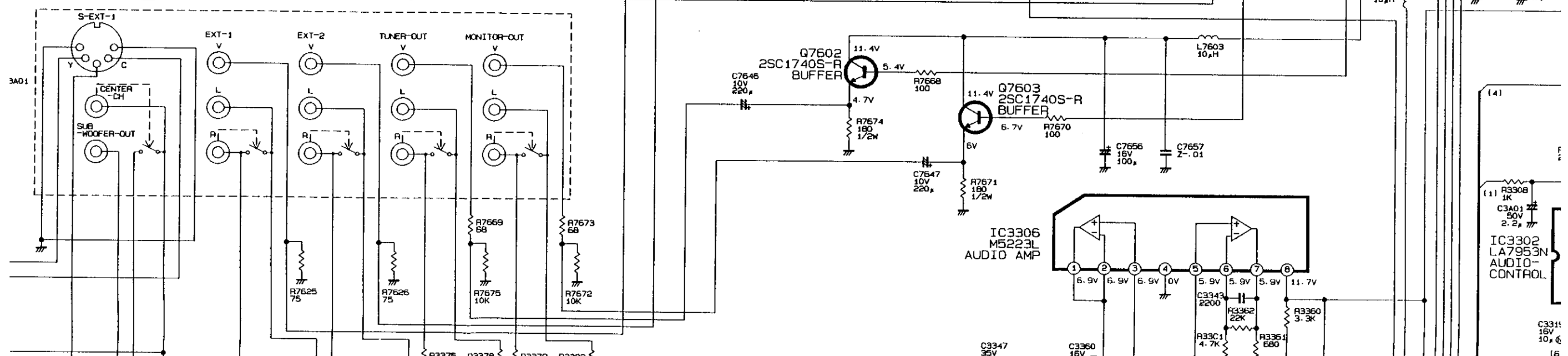
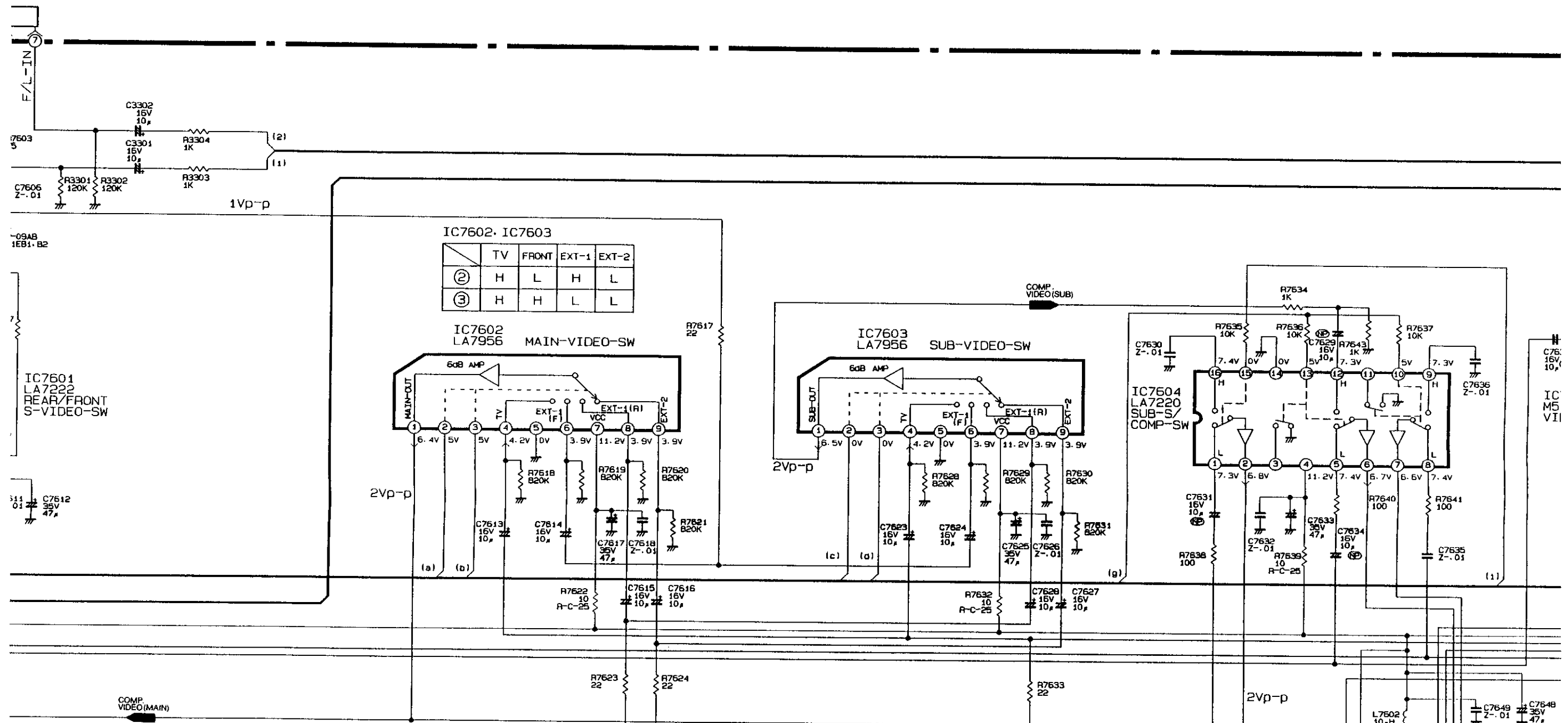


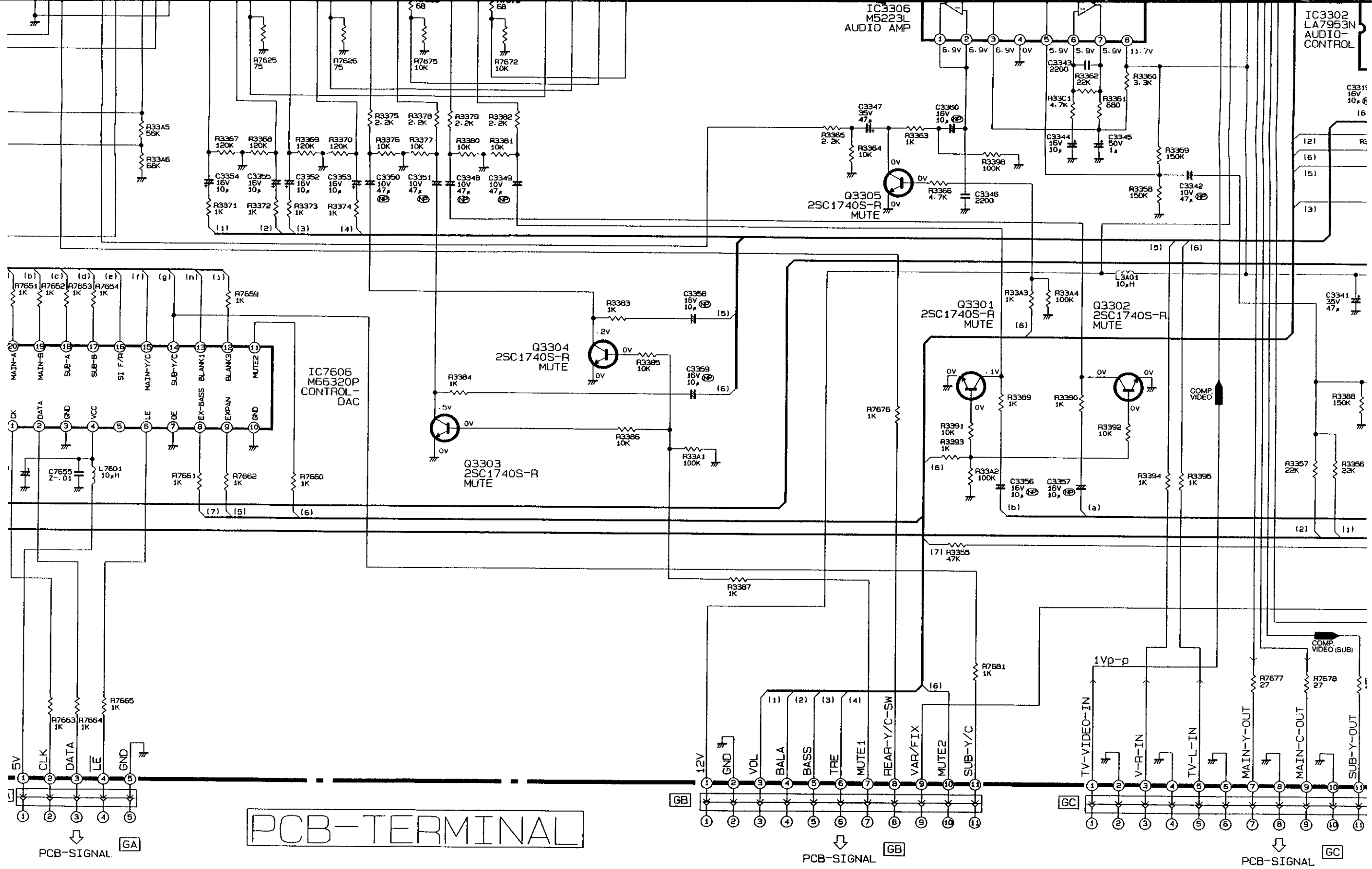
IC330B

C-CH	ON	OFF
②	L	H
④	L	H

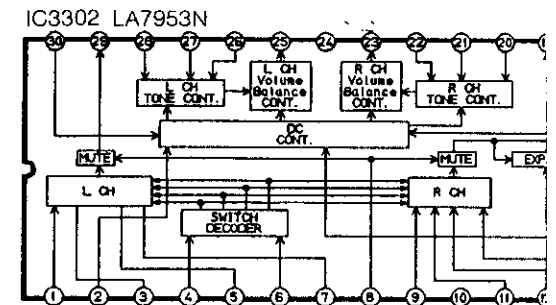
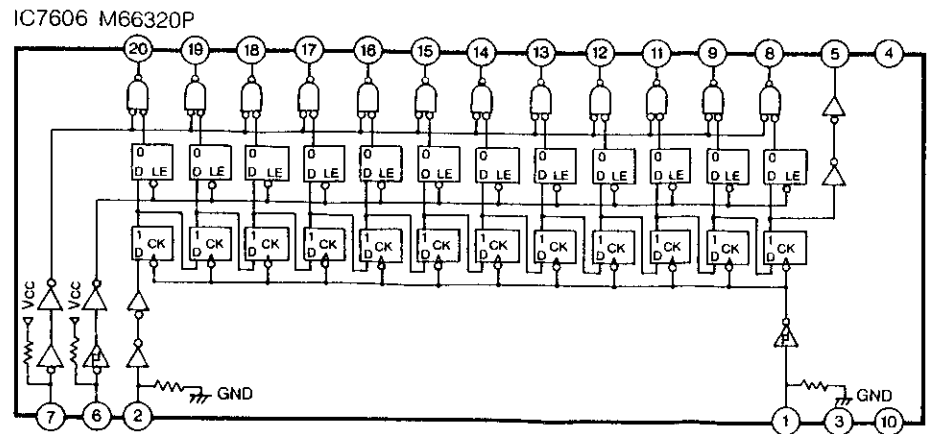
G
I
I
J
K







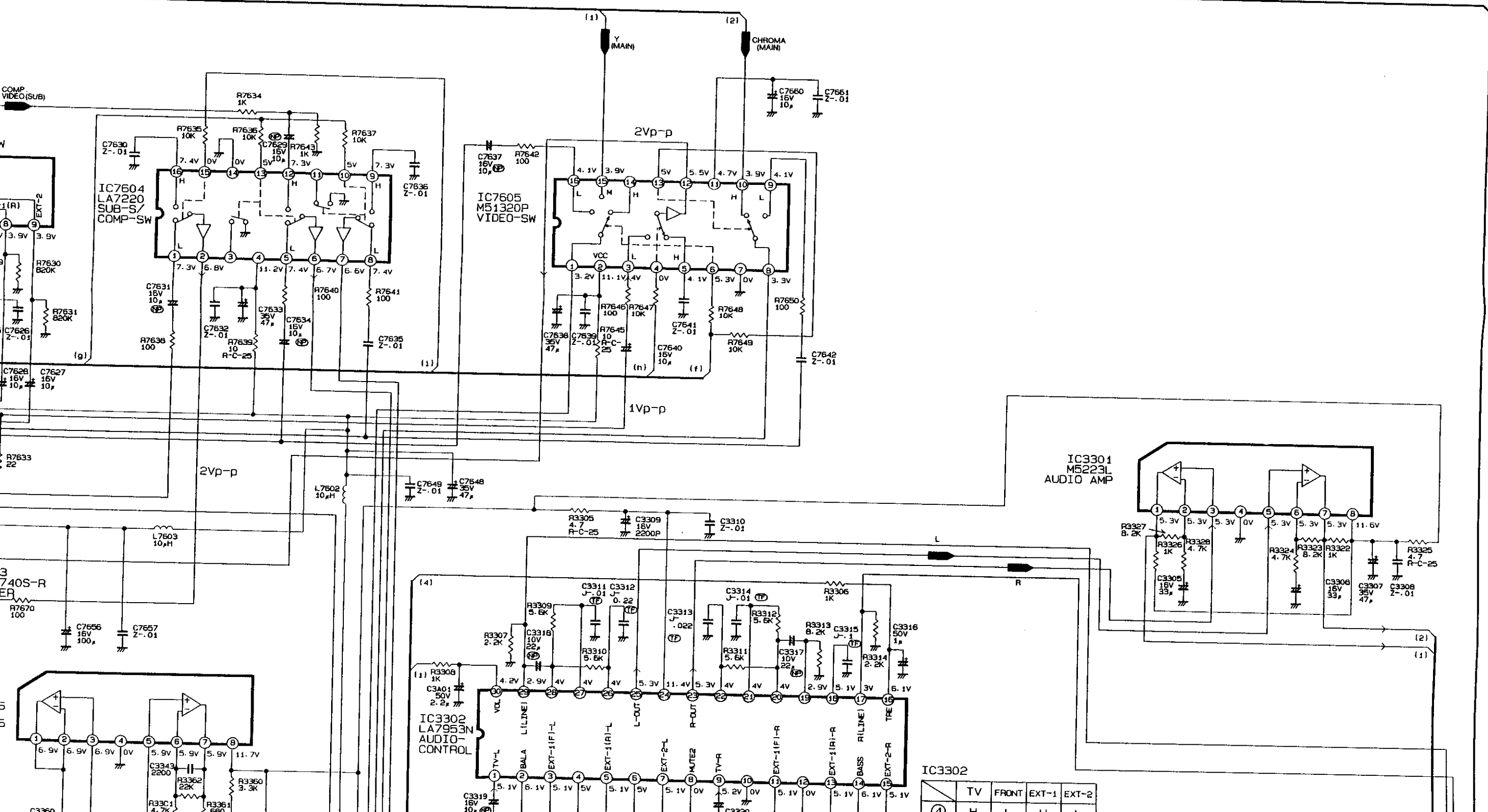
PCB-TERMINAL

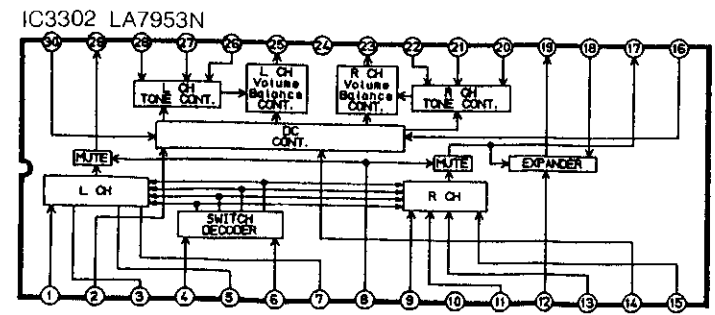
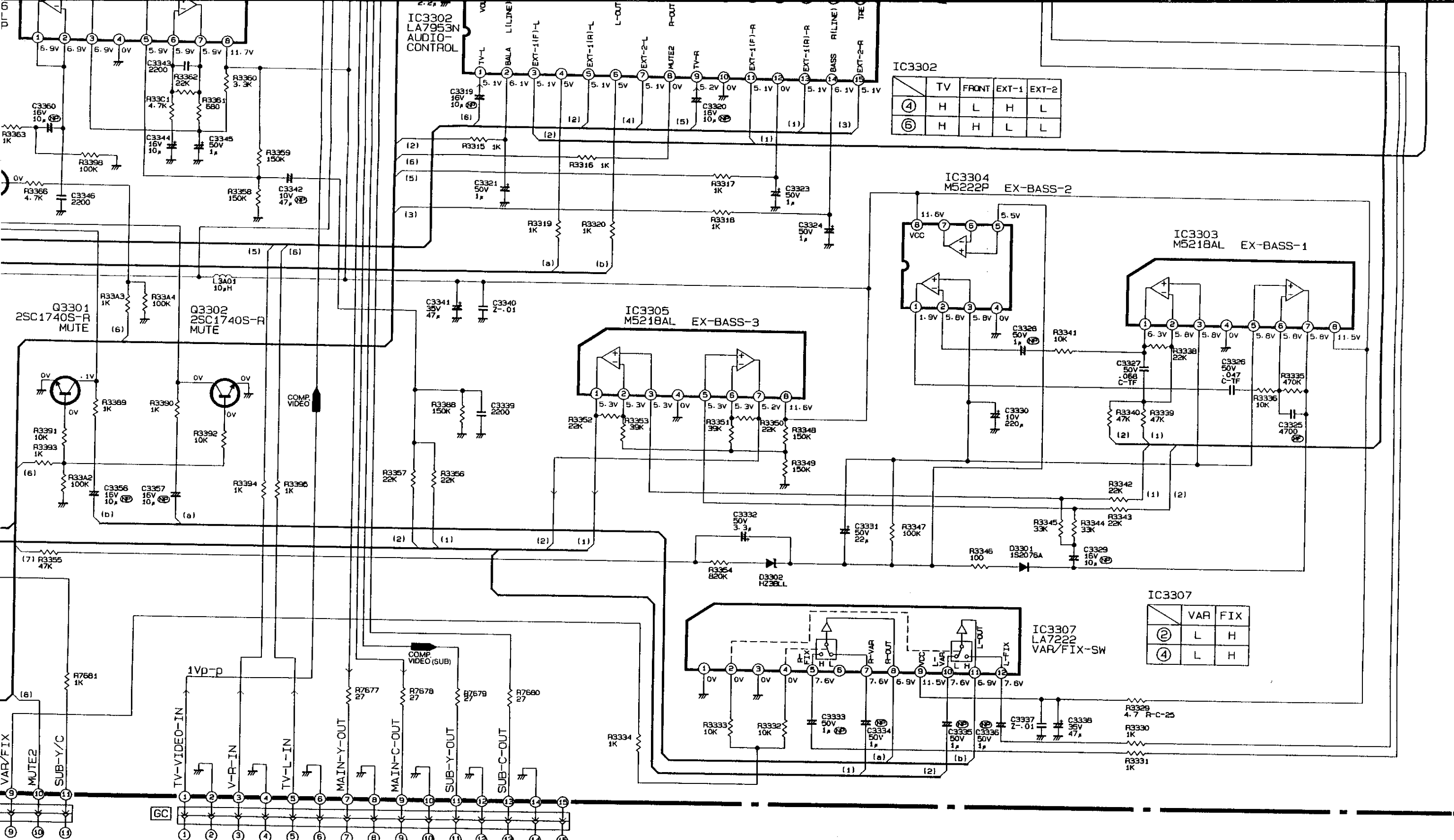


PCB-SIGNAL GA

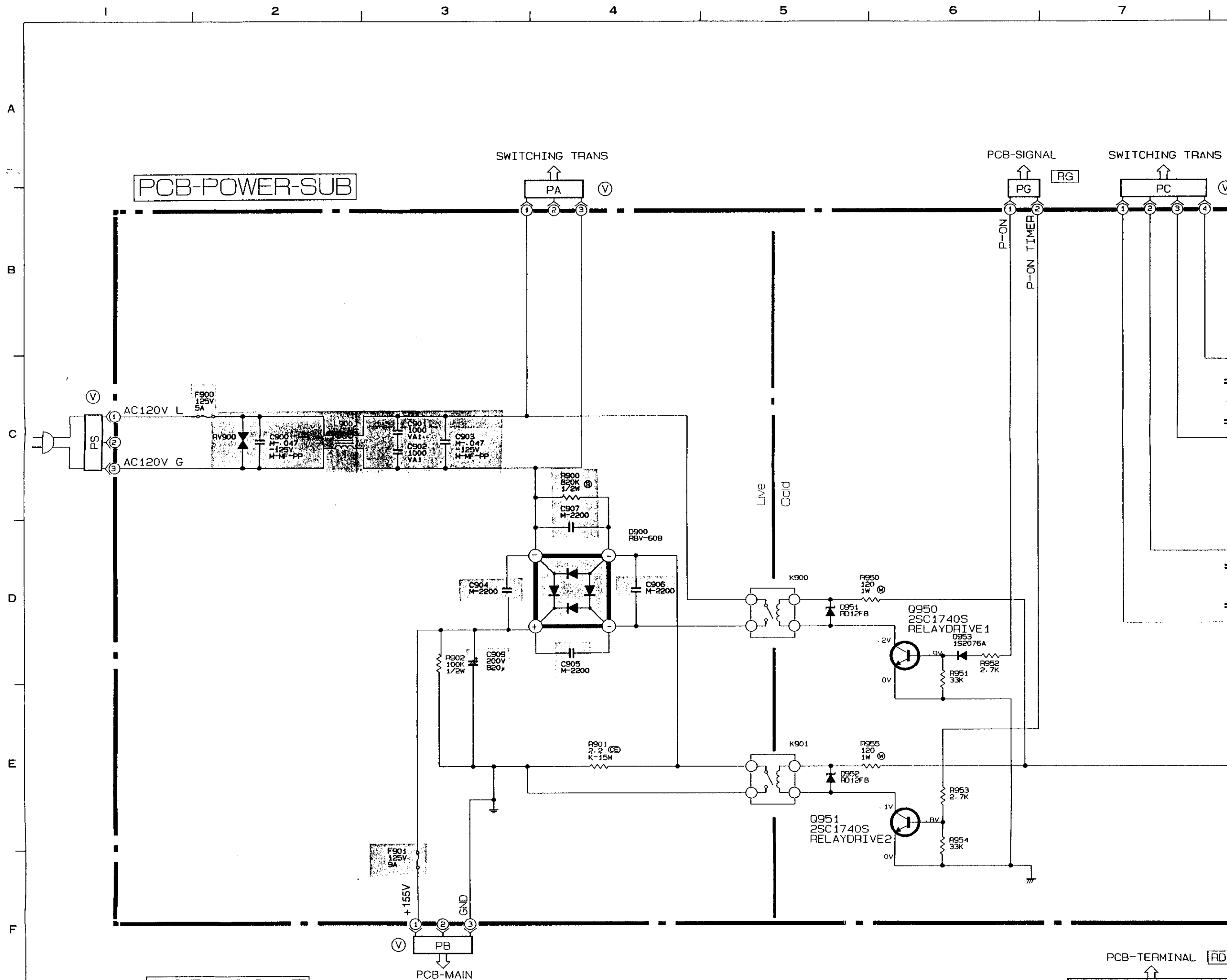
PCB-SIGNAL GB

PCB-SIGNAL GC





- VS-40VA2
- VS-45VA1
- VS-45VA2
- VS-50VA1
- VS-50VA2
- VS-60VA2
- VS-60VA2
- VS-50VA2CA
- VS-50VA2CA
- VS-60VA2CA(3/6)



F

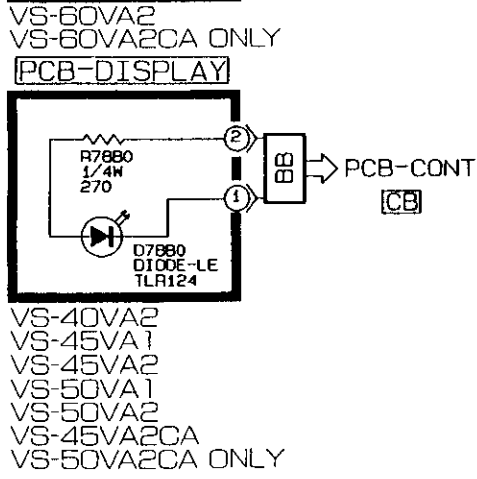
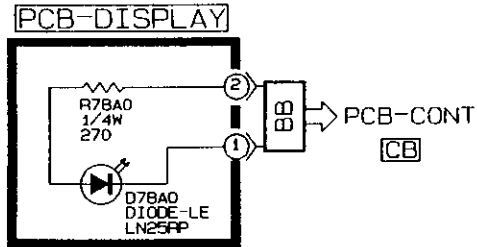
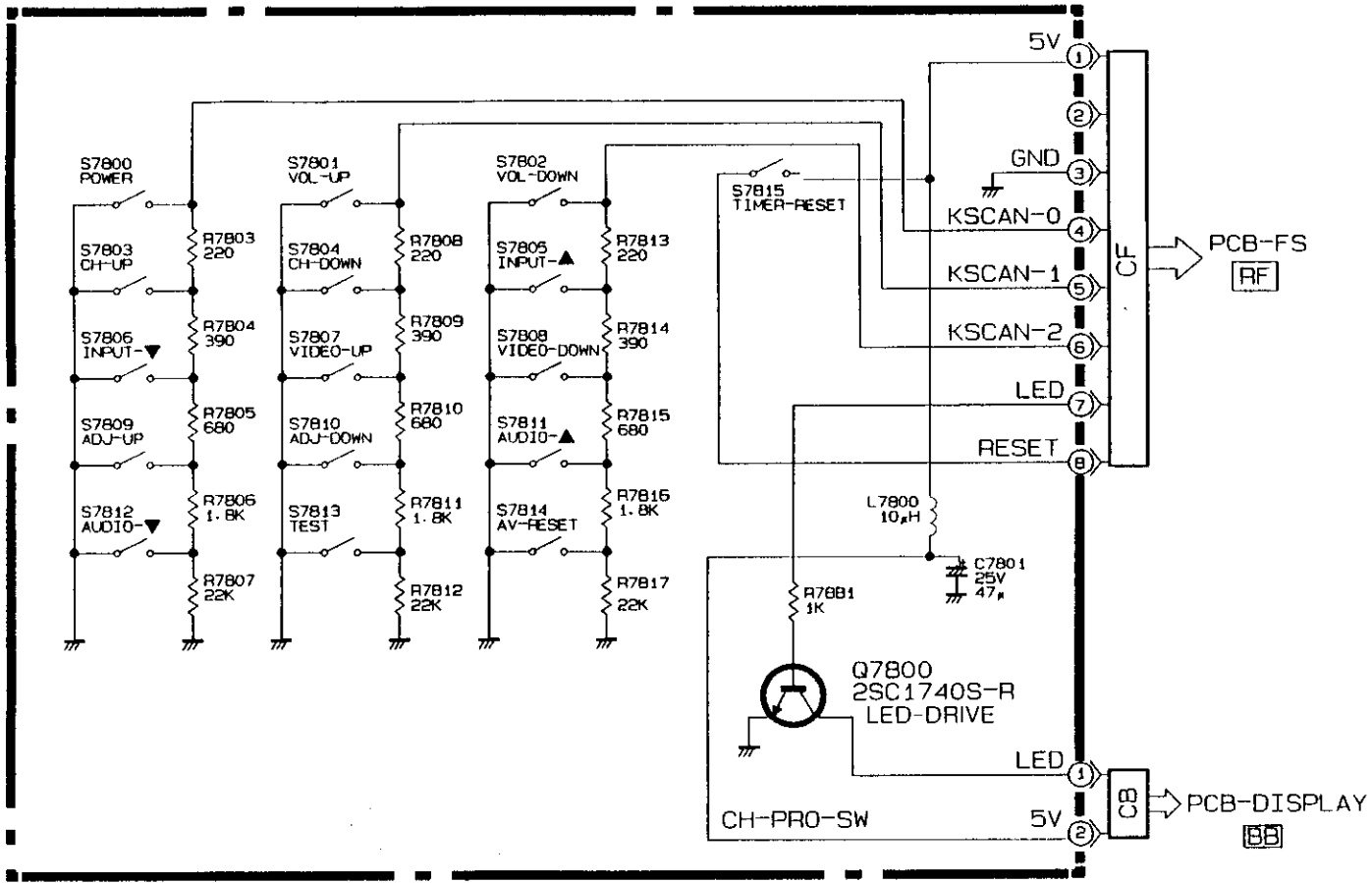
G

H

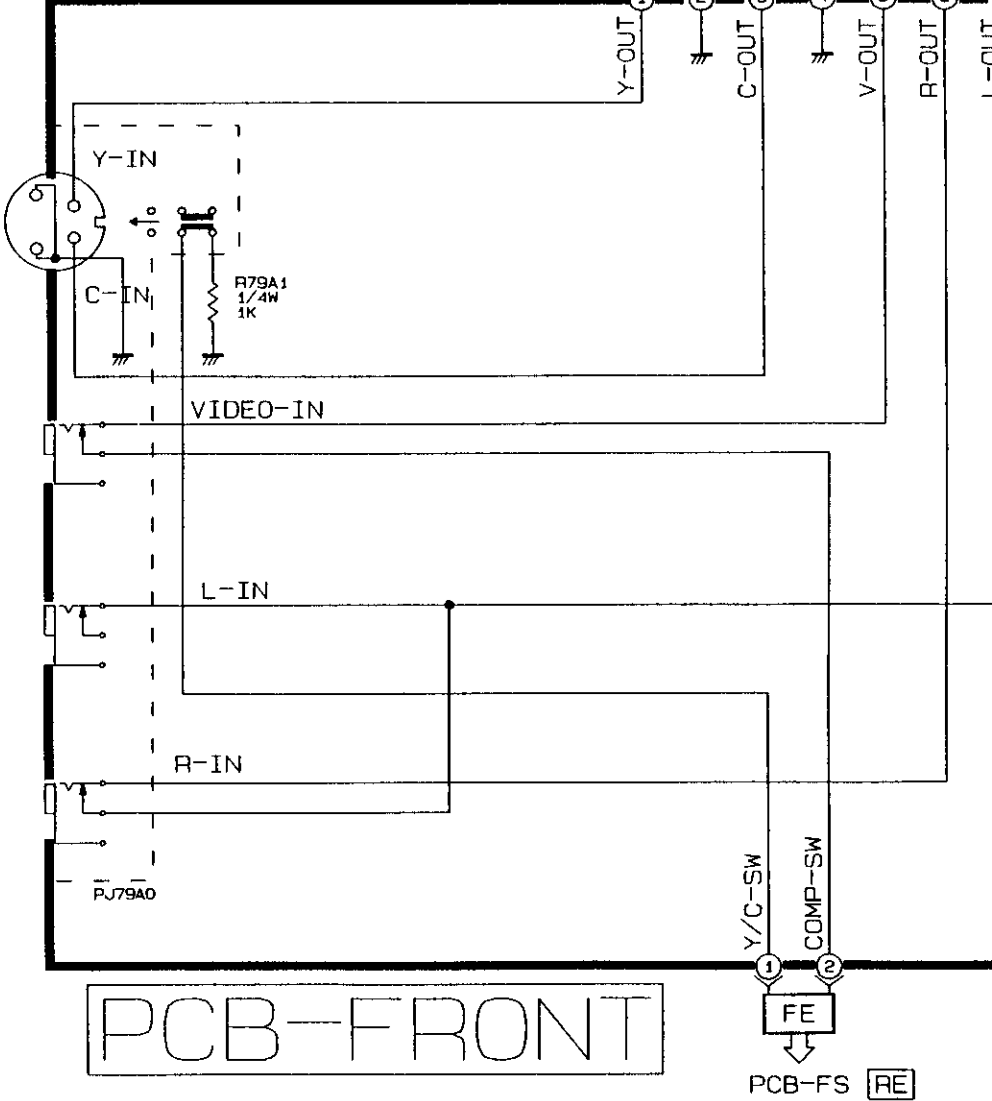
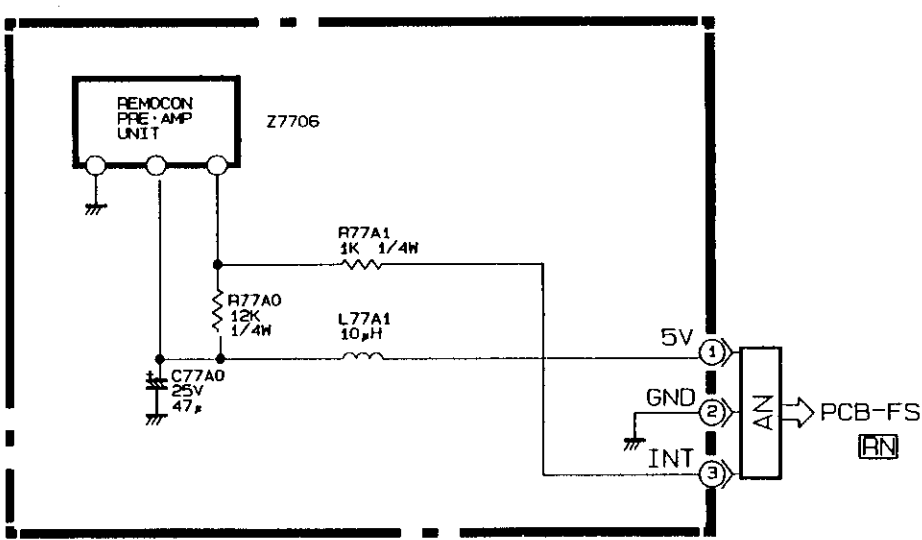
I

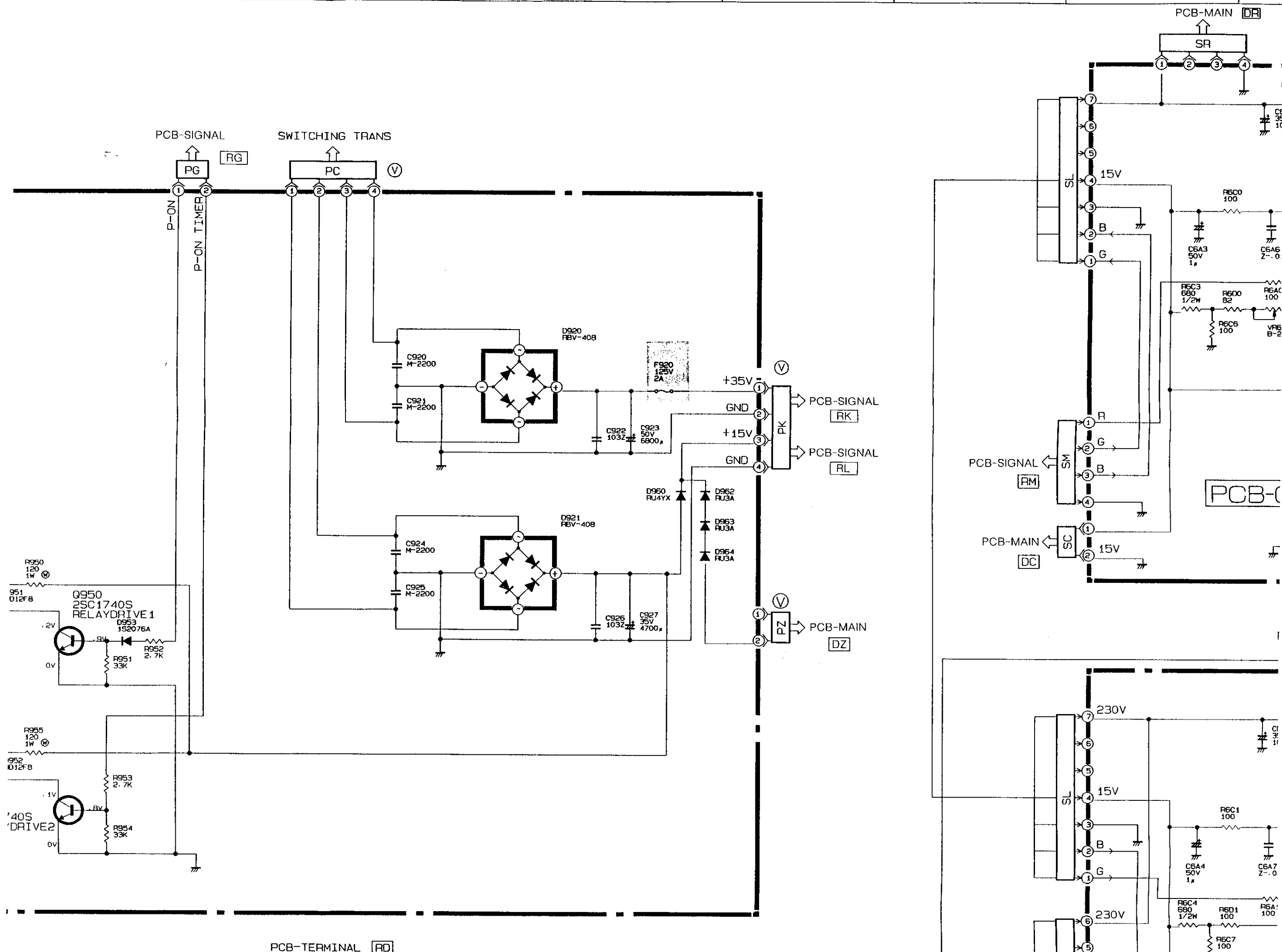
J

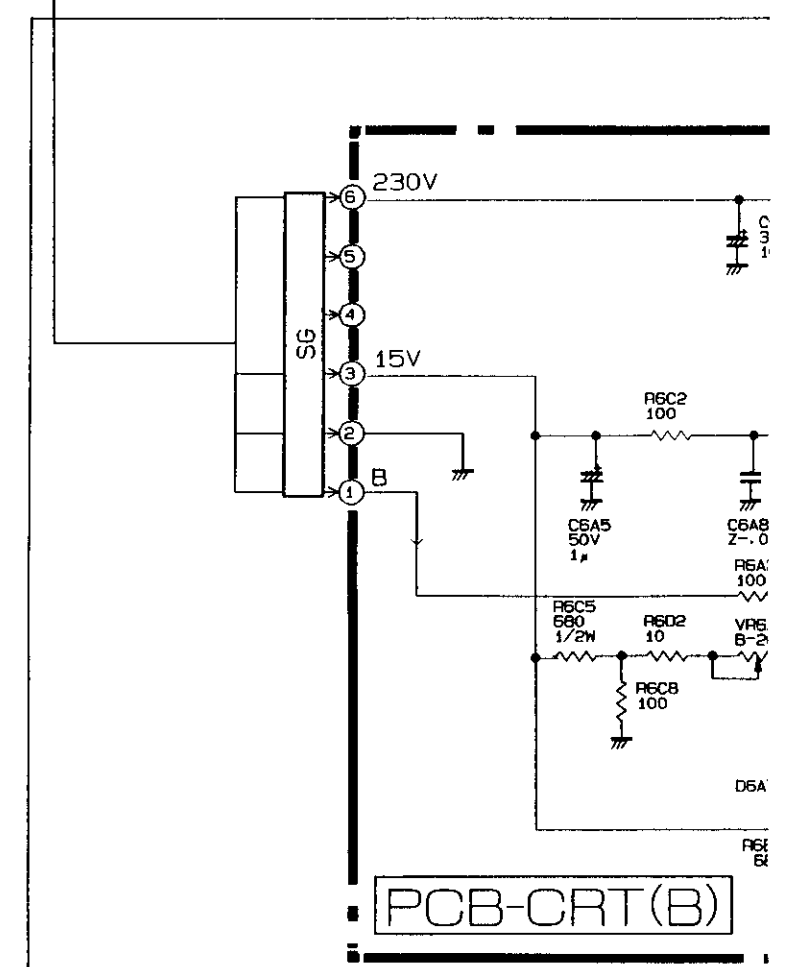
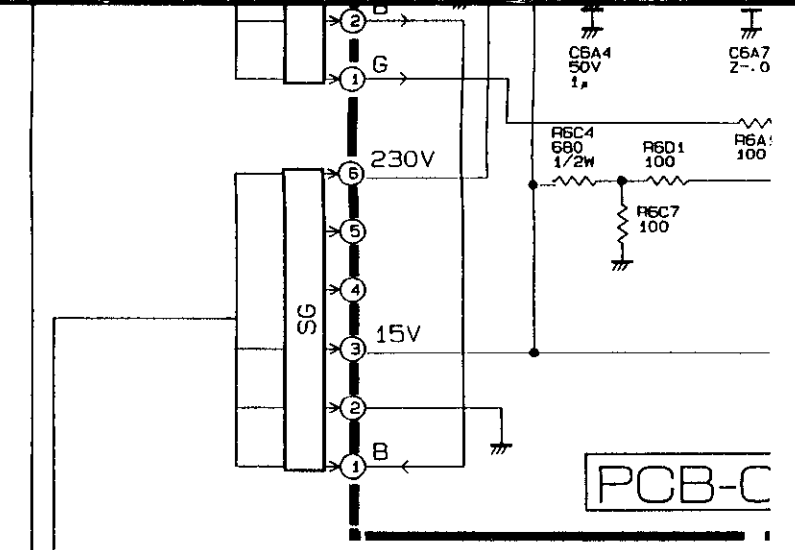
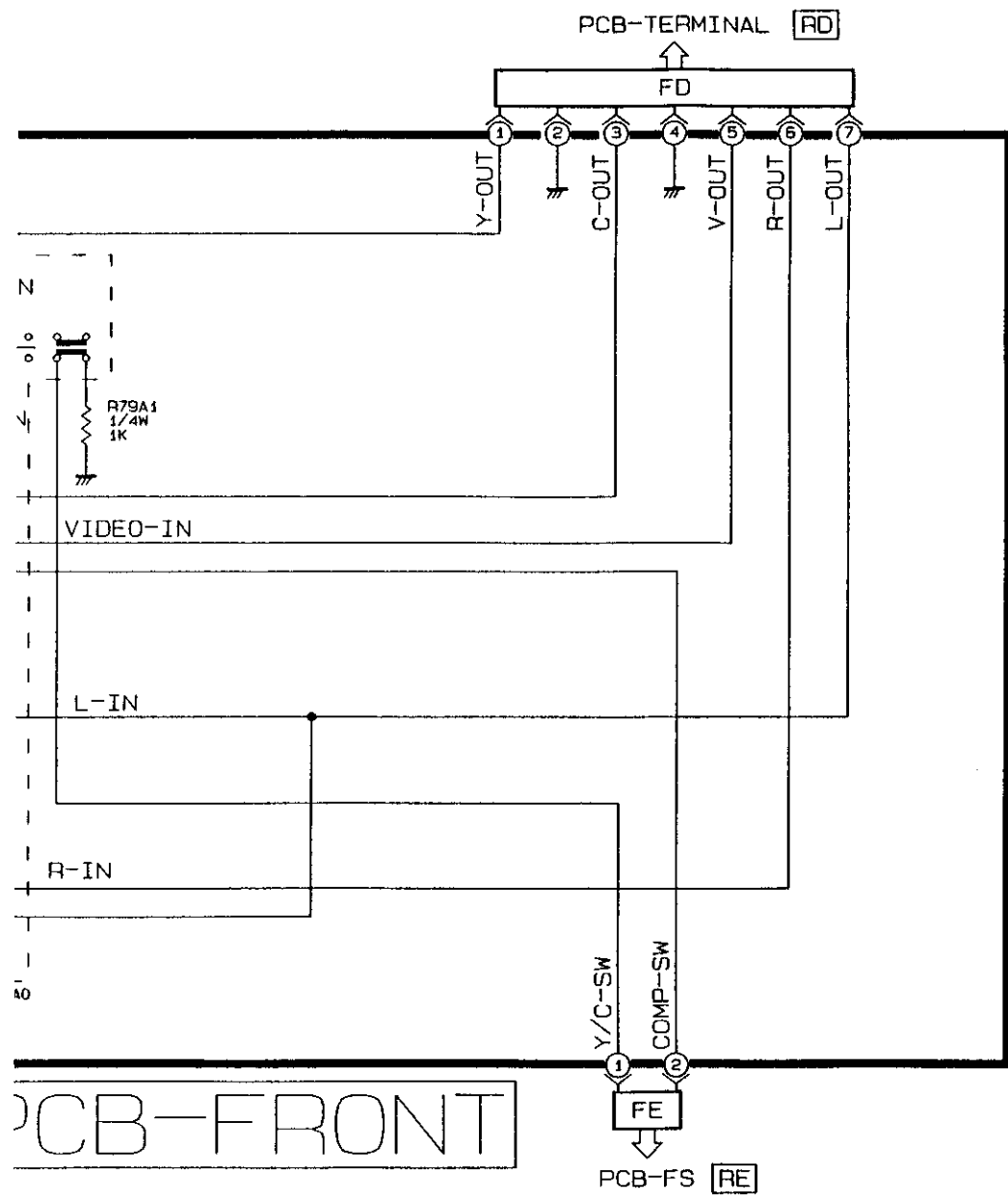
PCB-CONT

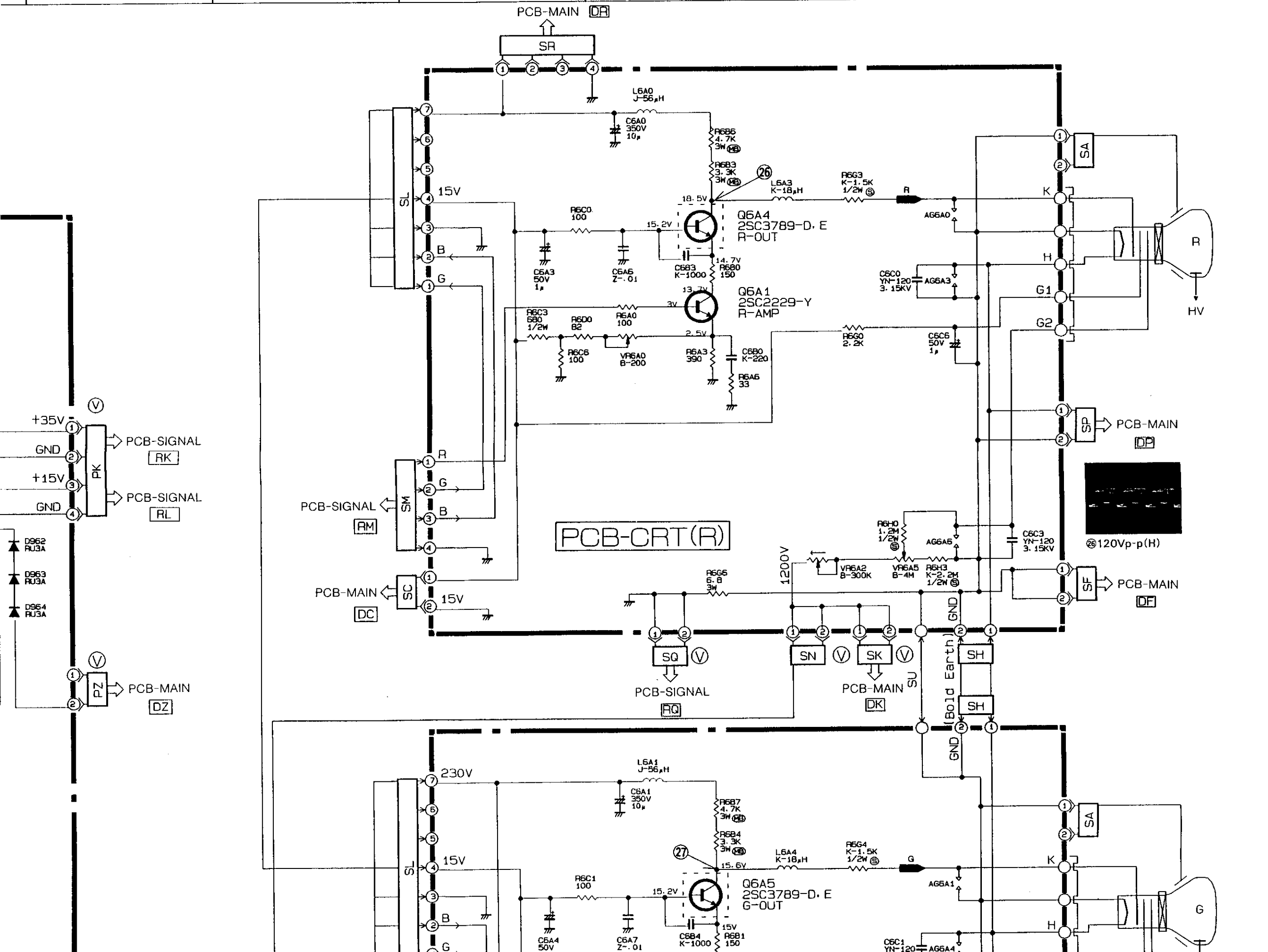


PCB-PREAMP

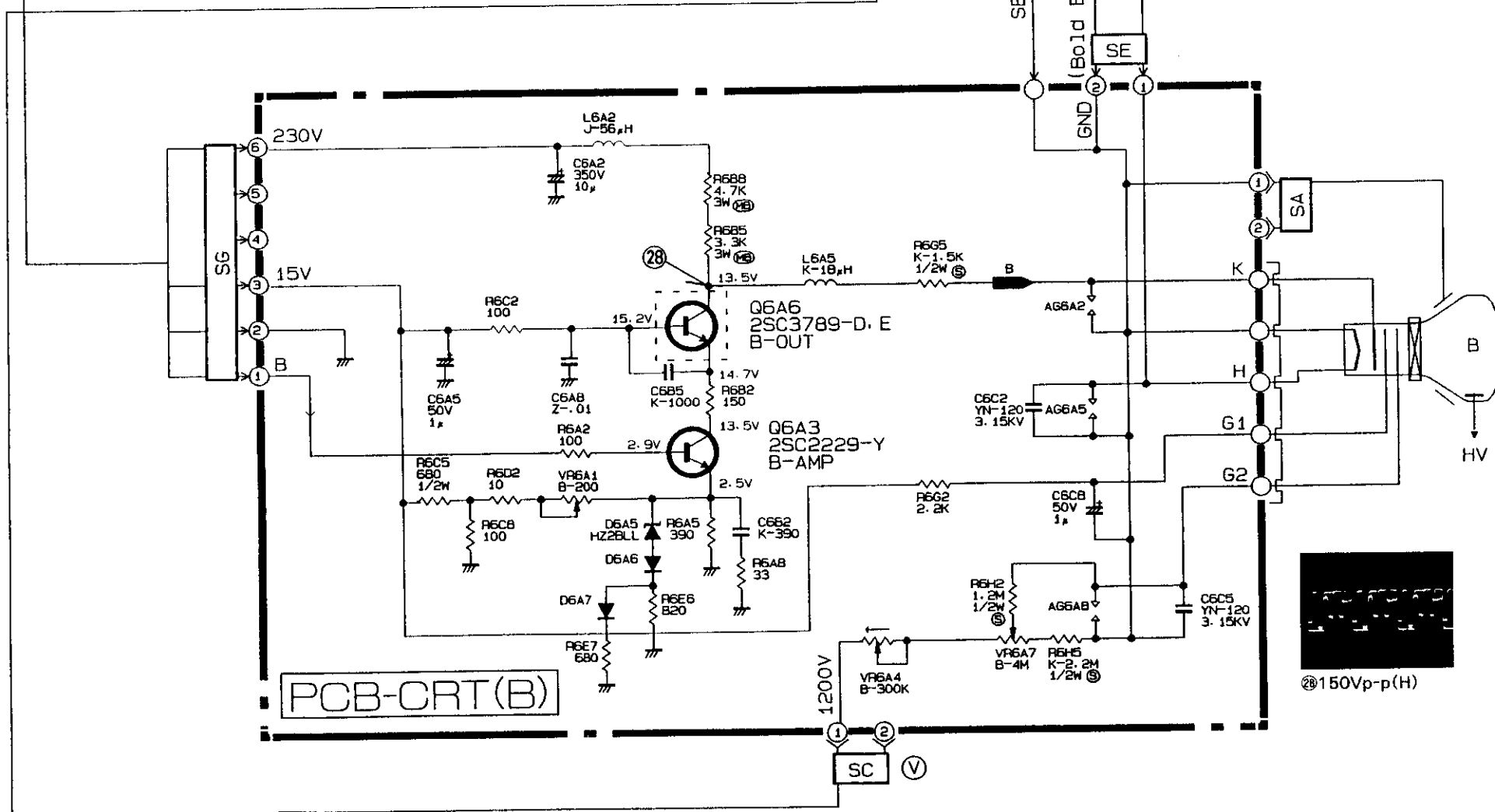
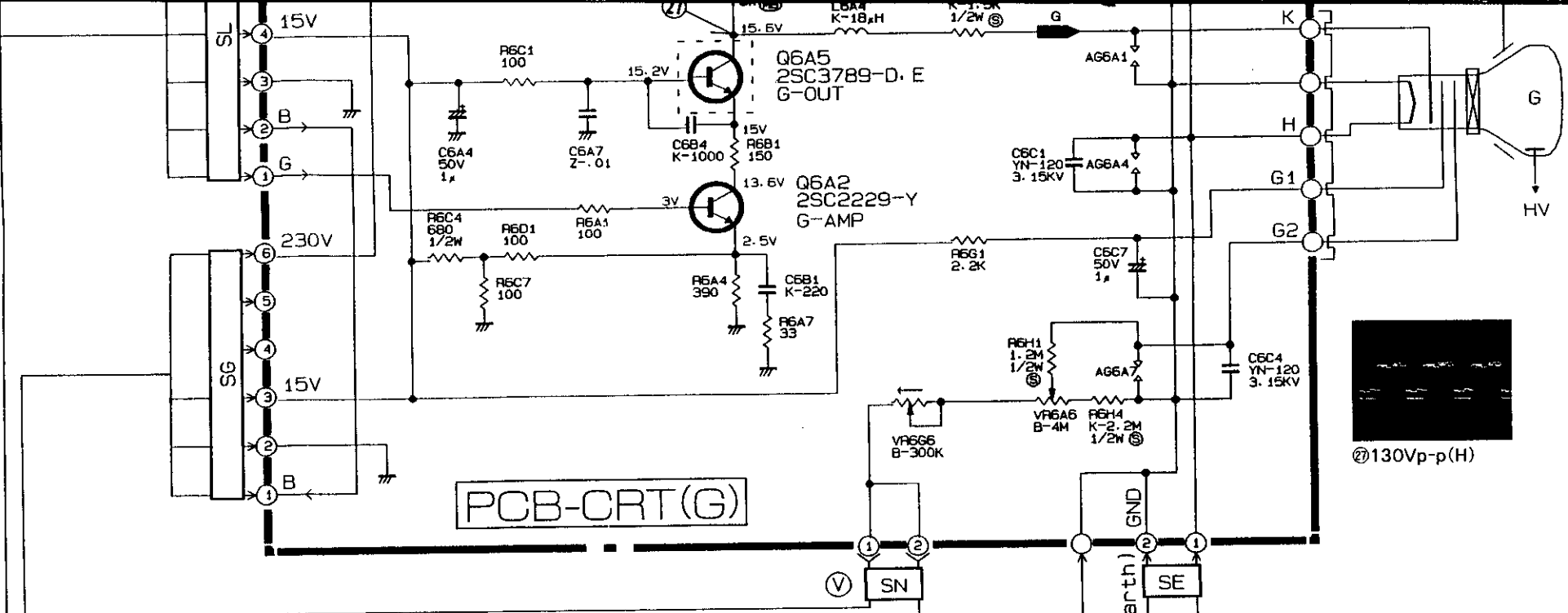


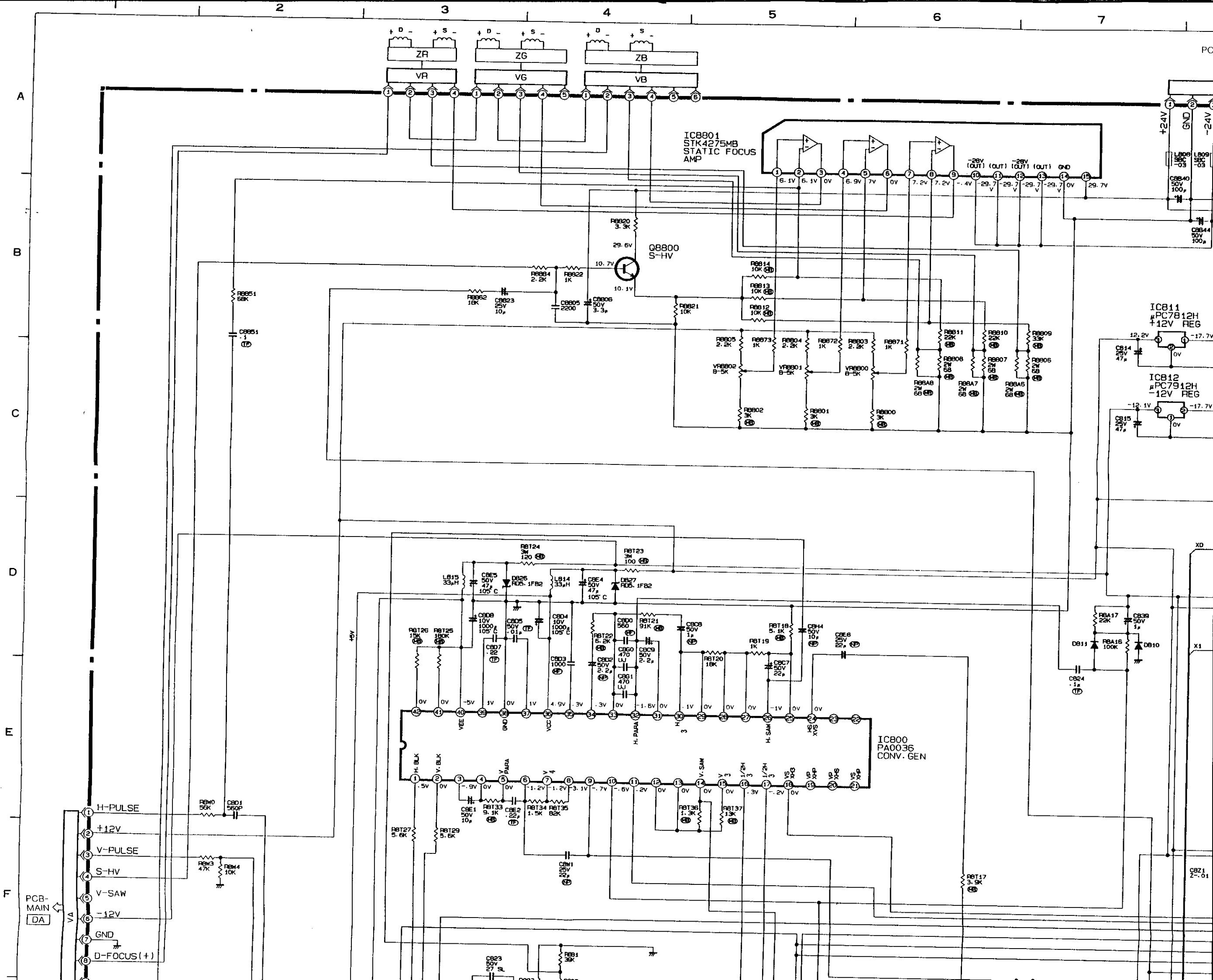


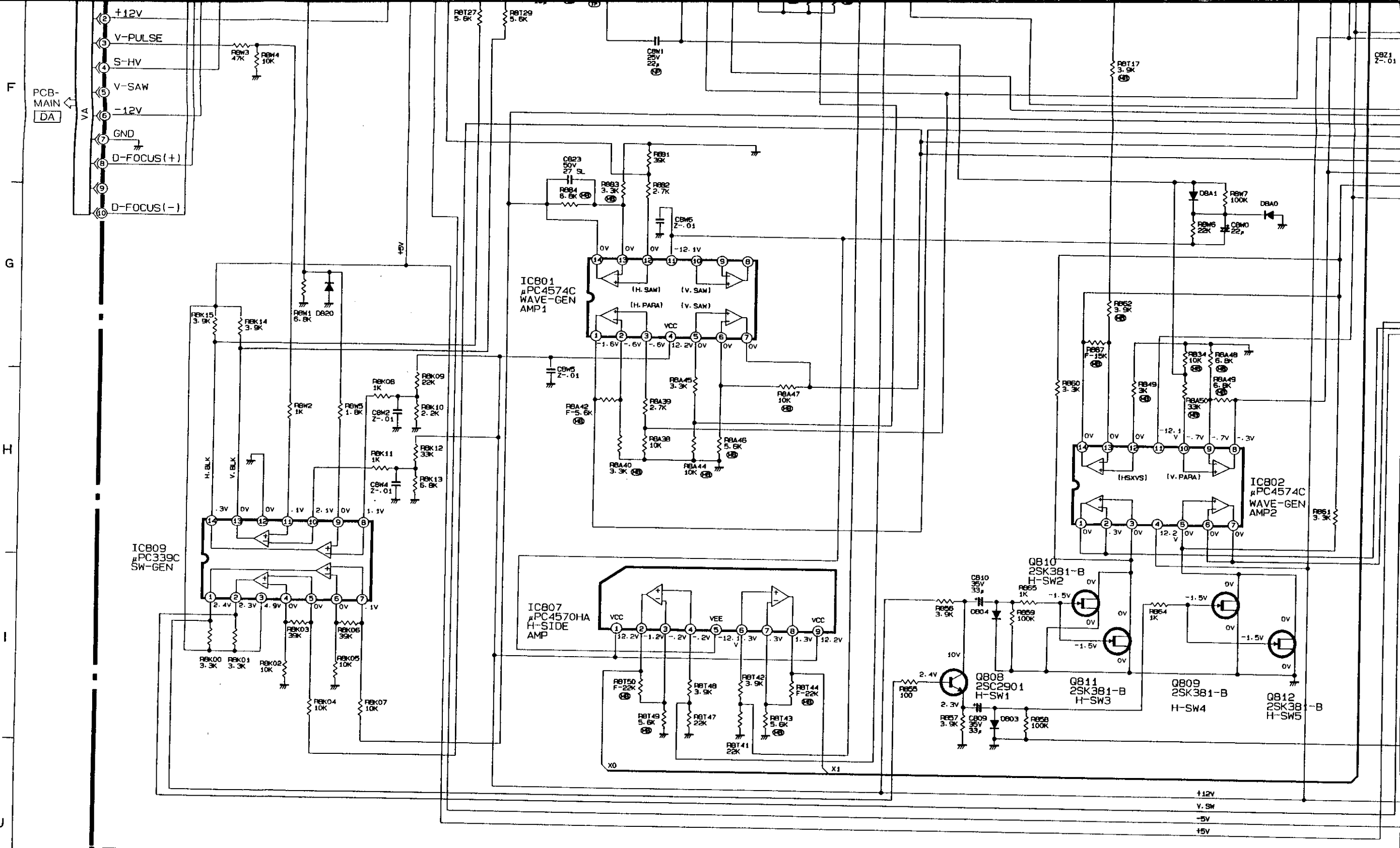




@120Vp-p(H)

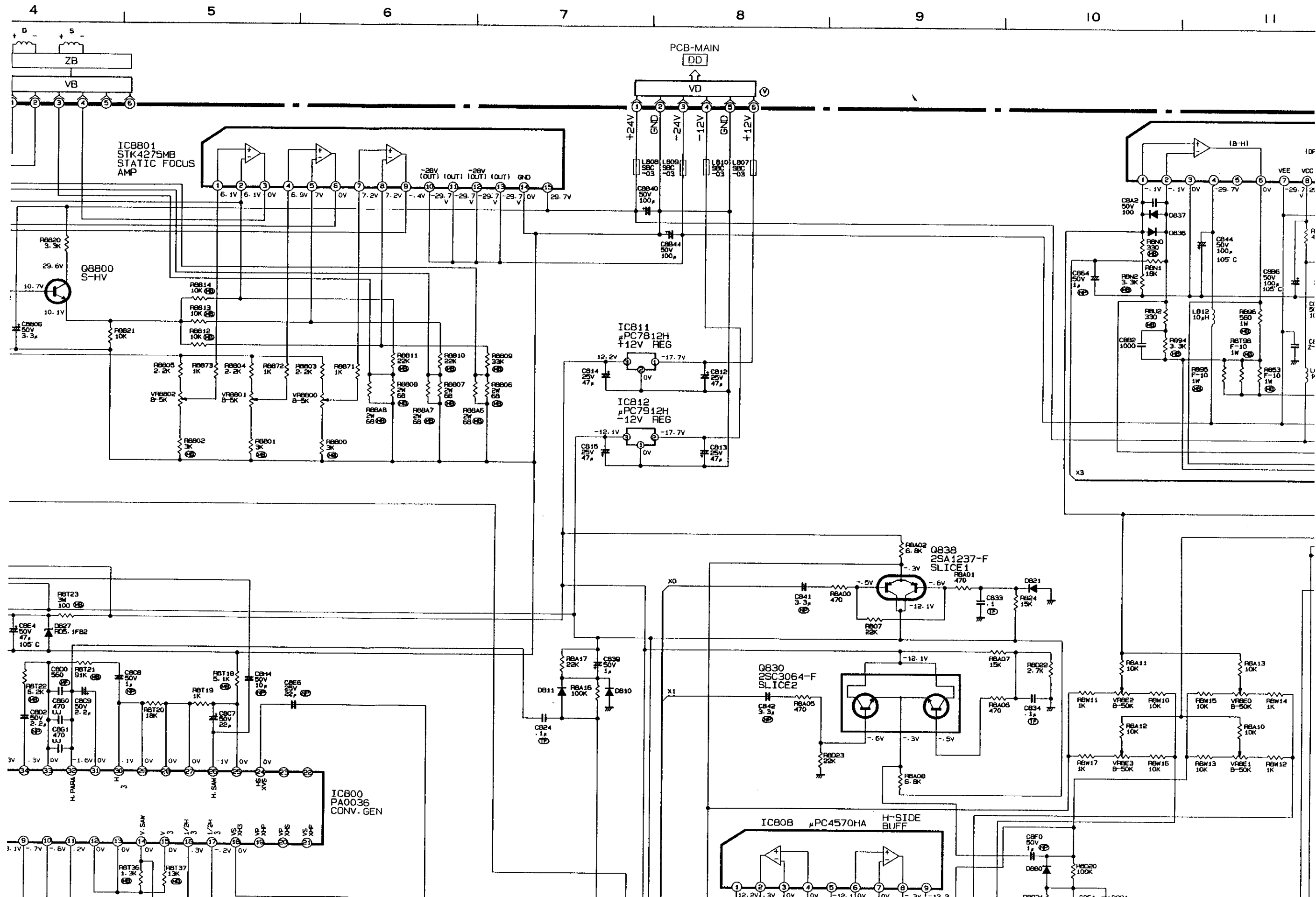


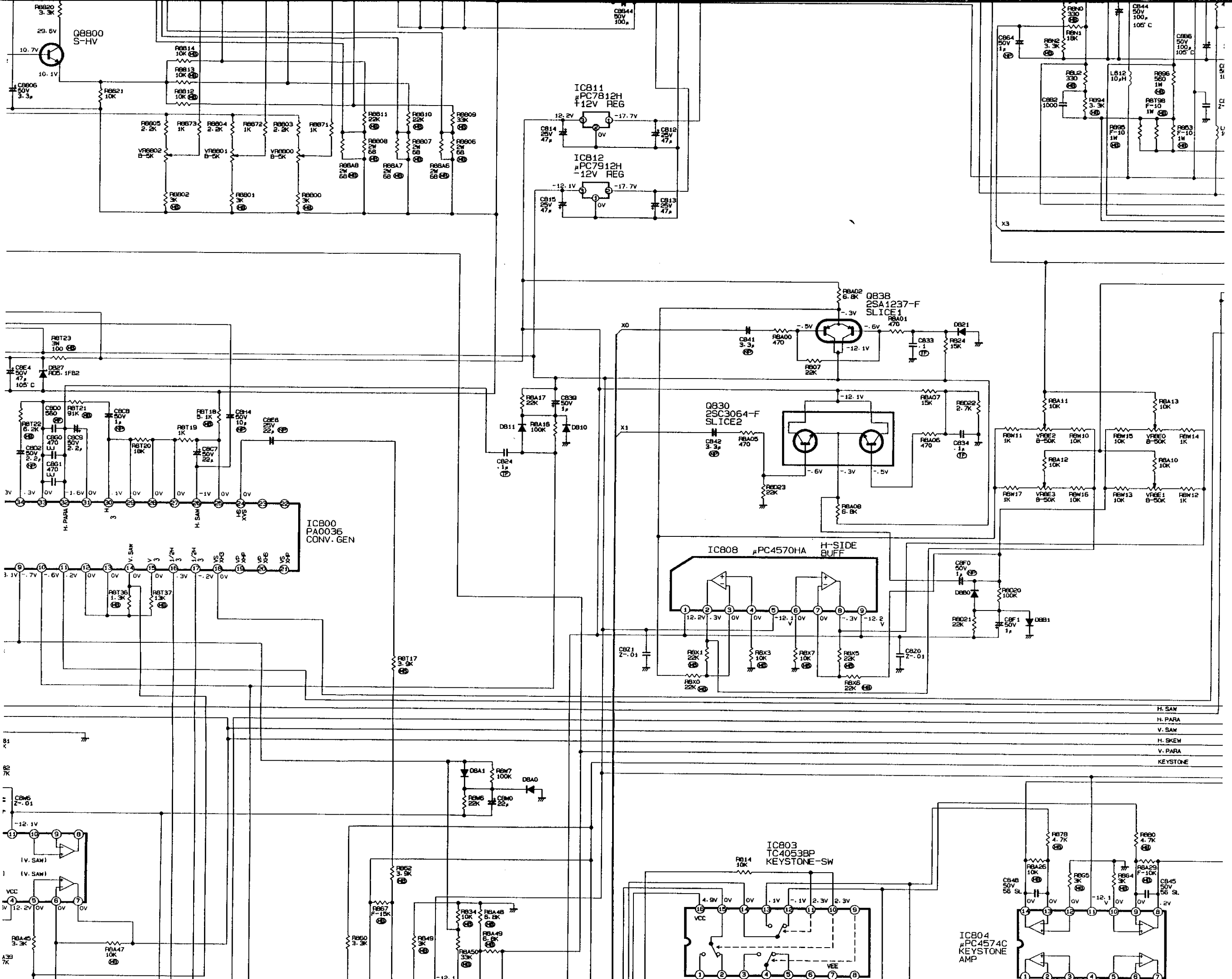




PCB-CONV

If not specified TRANSISTORS are 2SC2603-E.F/2SC1740S-R.S
 If not specified DIODES are 1S2076A/1S2471





X3

X0

X1

H. SAW
H. PARA
V. SAW
H. SKEW
V. PARA
KEYSTONE

IC804
μPC4574C
KEYSTONE
AMP

IC803
TC4053BP
KEYSTONE-SW

IC808 μPC4570HA
H-SIDE
BUFF

Q830
2SC3064-F
SLICE2

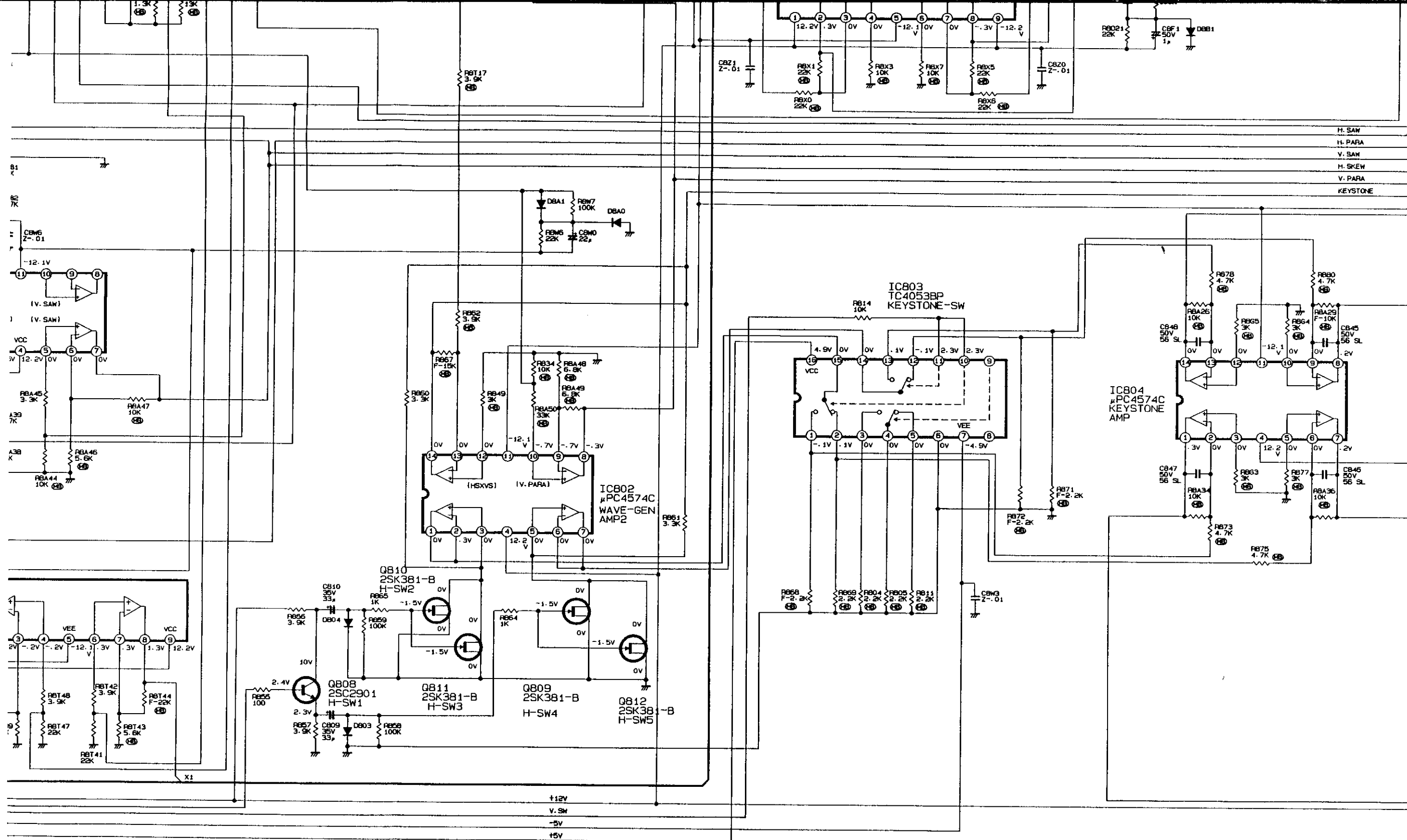
Q838
2SA1237-F
SLICE1

IC811
μPC7812H
+12V REG

IC812
μPC7912H
-12V REG

Q8800
S-HV

IC800
PA0036
CONV. GEN



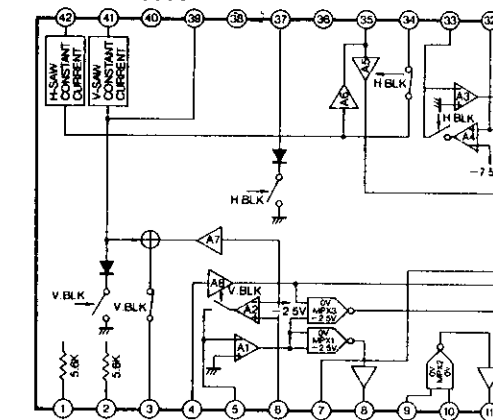
If not specified TRANSISTORS are 2SC2603-E.F/2SC1740S-R.S

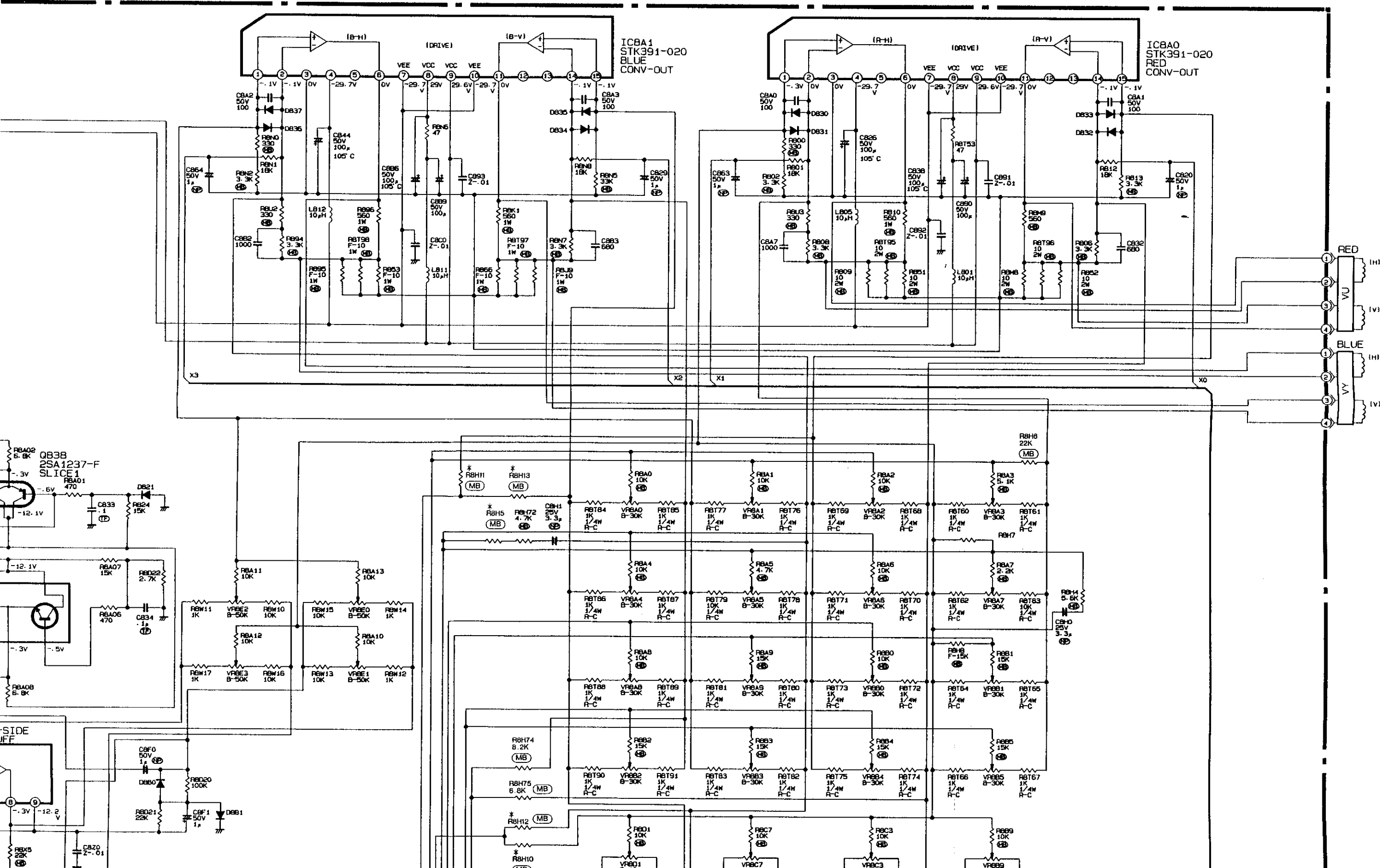
If not specified DIODES are 1S2076A/1S2471

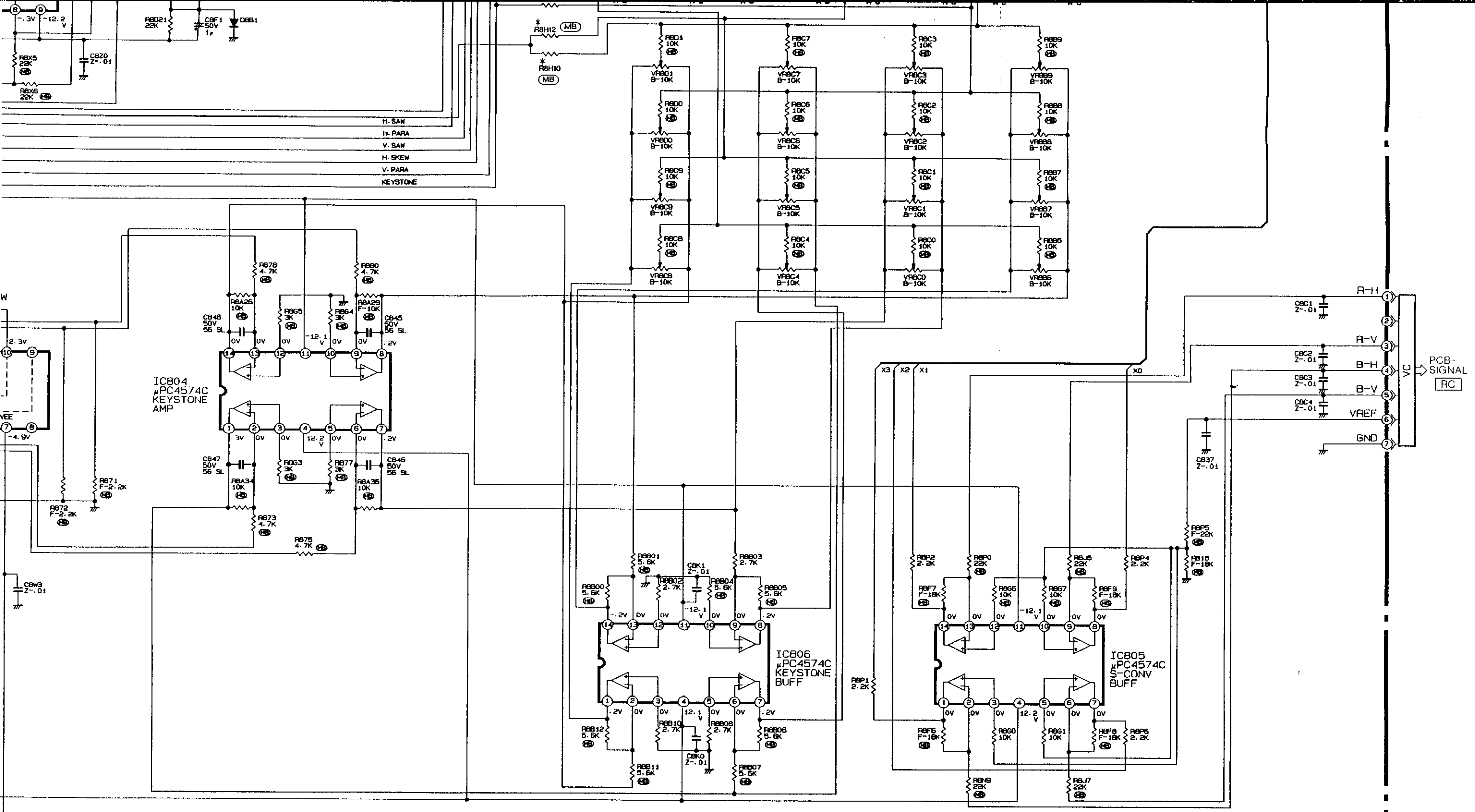
*DIFFERENCE TABLE

	R8H10	R8H11	R8H12	R8H13	R8H5
VS-40VA2	x	x	x	x	5.6K
VS-45VA1	27K	18K	27K	6.8K	10K
VS-45VA2	27K	18K	27K	6.8K	10K
VS-50VA1	39K	24K	39K	8.2K	10K
VS-50VA2	39K	24K	39K	8.2K	10K
VS-60VA2	x	27K	39K	8.2K	10K
VS-45VA2CA	27K	18K	27K	6.8K	10K
VS-50VA2CA	39K	24K	39K	8.2K	10K
VS-60VA2CA	x	27K	39K	8.2K	10K

IC800 PA0036

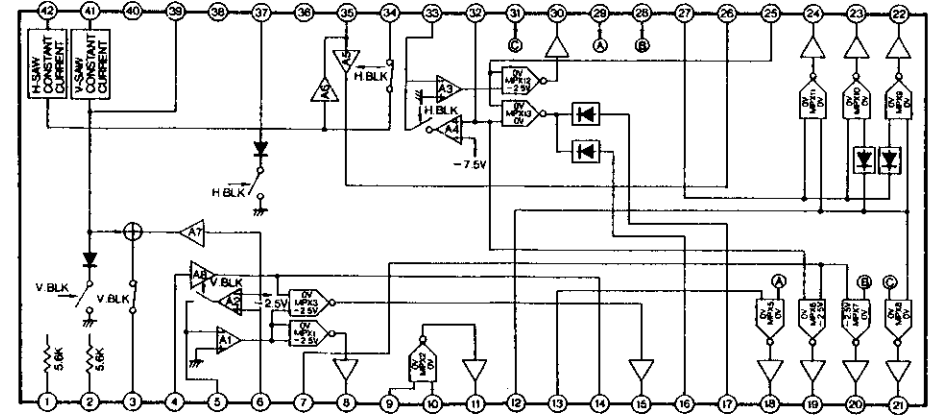




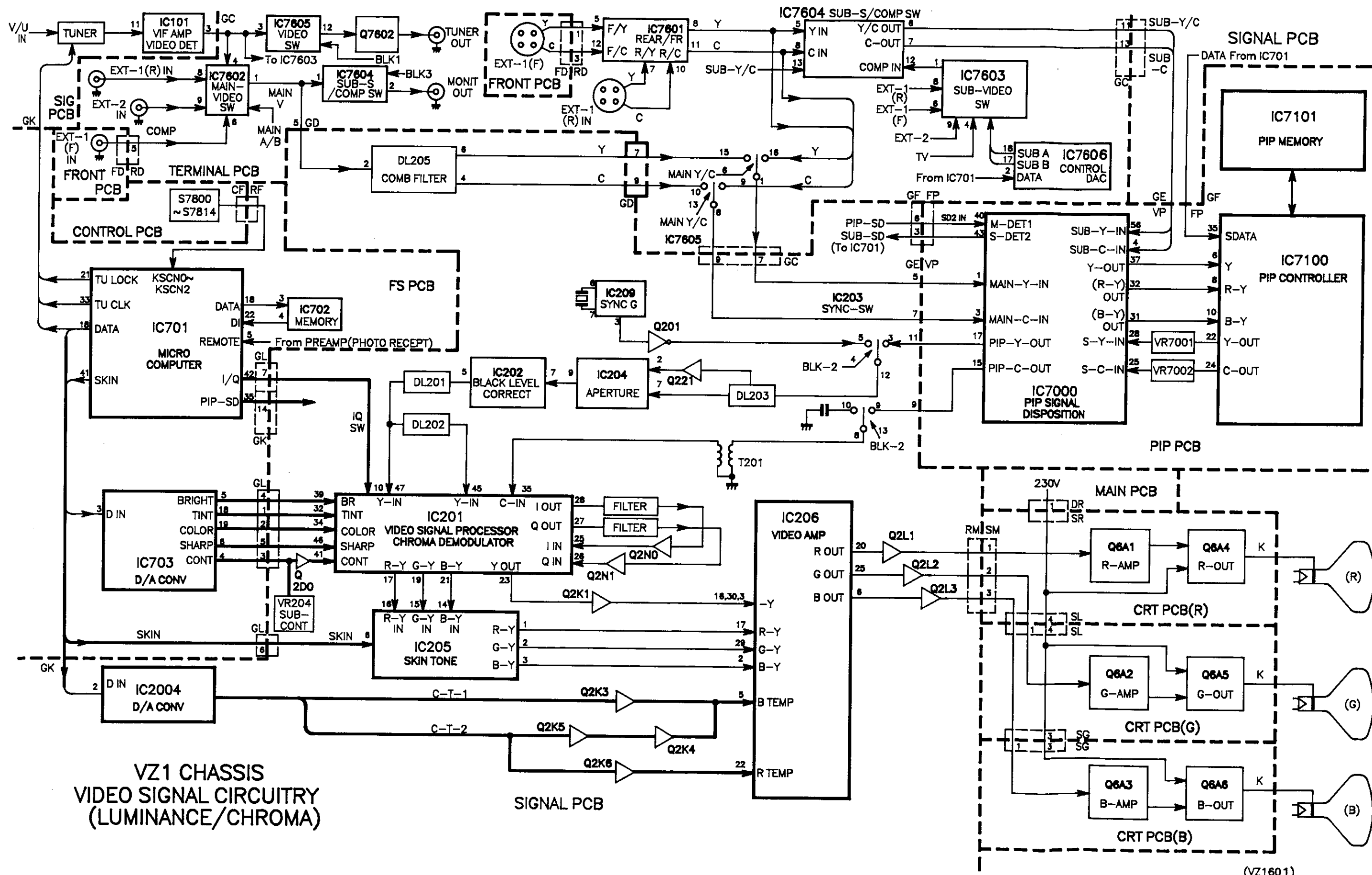


IC800 PA0036

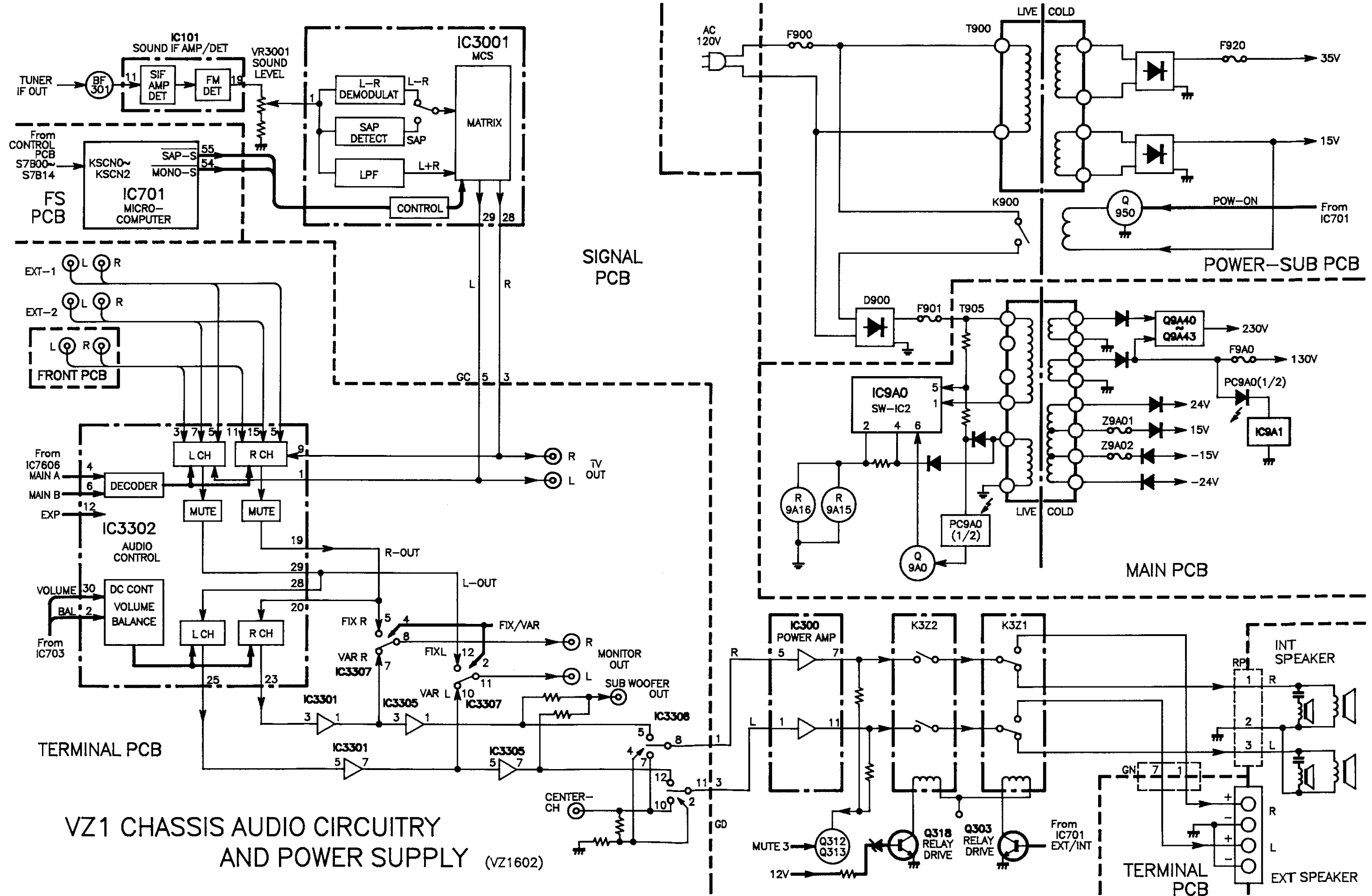
R8H12	R8H13	R8H5
x	x	5.6K
27K	6.8K	10K
27K	6.8K	10K
39K	8.2K	10K
39K	8.2K	10K
27K	6.8K	10K
39K	8.2K	10K
39K	8.2K	10K

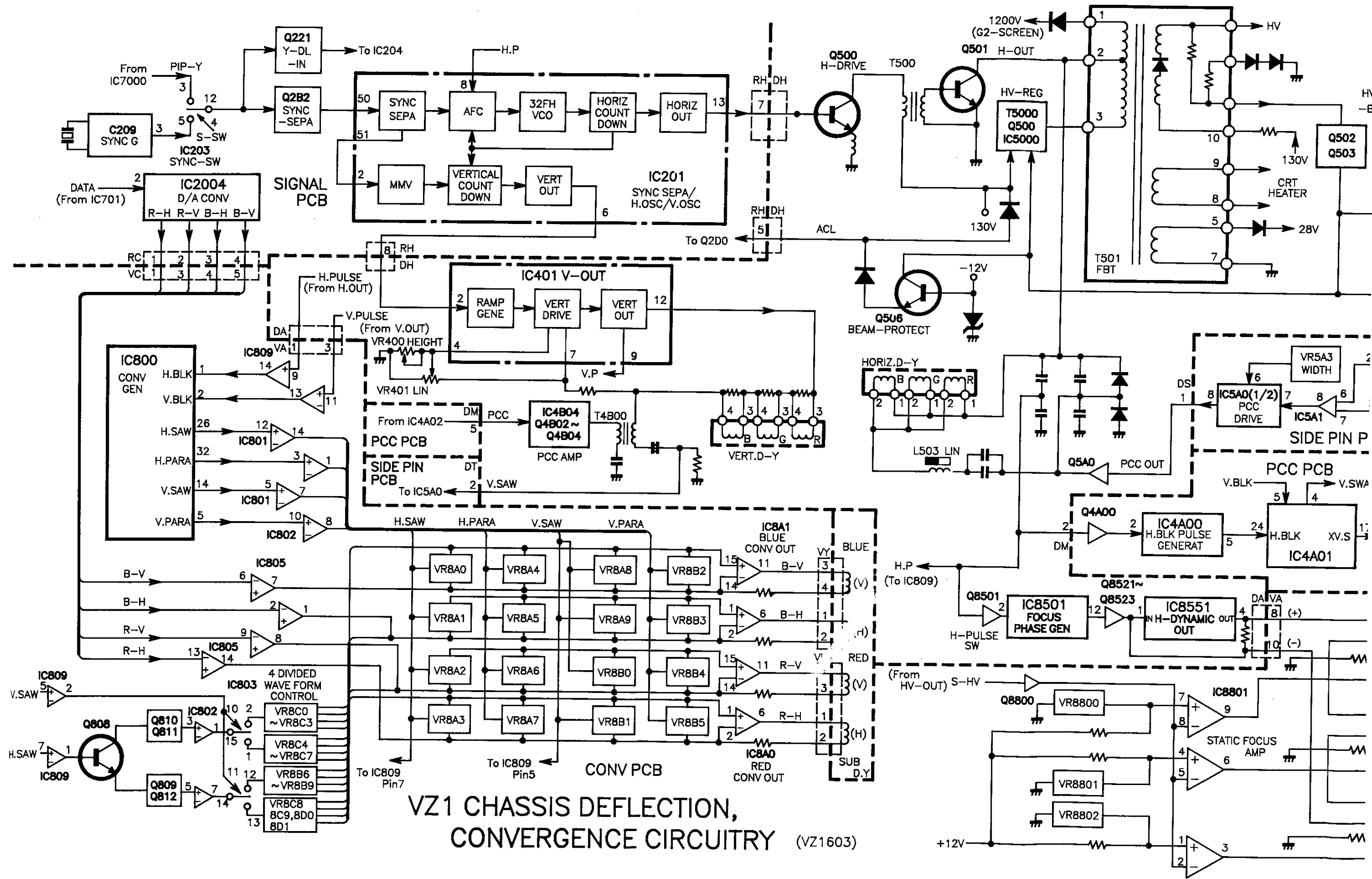


- VS-40VA2
- VS-45VA1
- VS-45VA2
- VS-50VA1
- VS-50VA2
- VS-60VA2
- VS-45VA2CA
- VS-50VA2CA
- VS-60VA2CA(4/6)

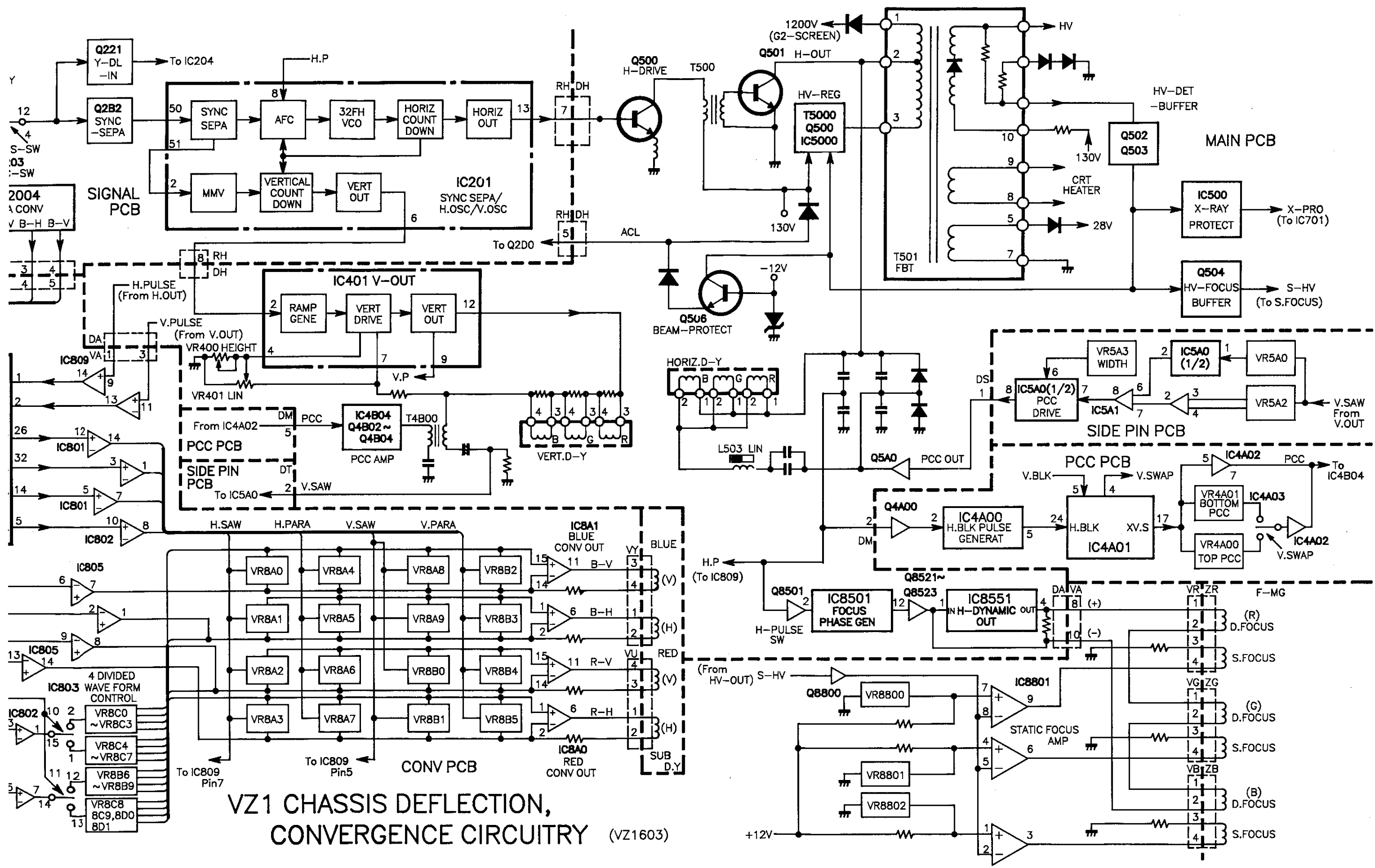


VZ1 CHASSIS
VIDEO SIGNAL CIRCUITRY
(LUMINANCE/CHROMA)





VZ1 CHASSIS DEFLECTION,
CONVERGENCE CIRCUITRY (VZ1603)



VZ1 CHASSIS DEFLECTION,
CONVERGENCE CIRCUITRY (VZ1603)

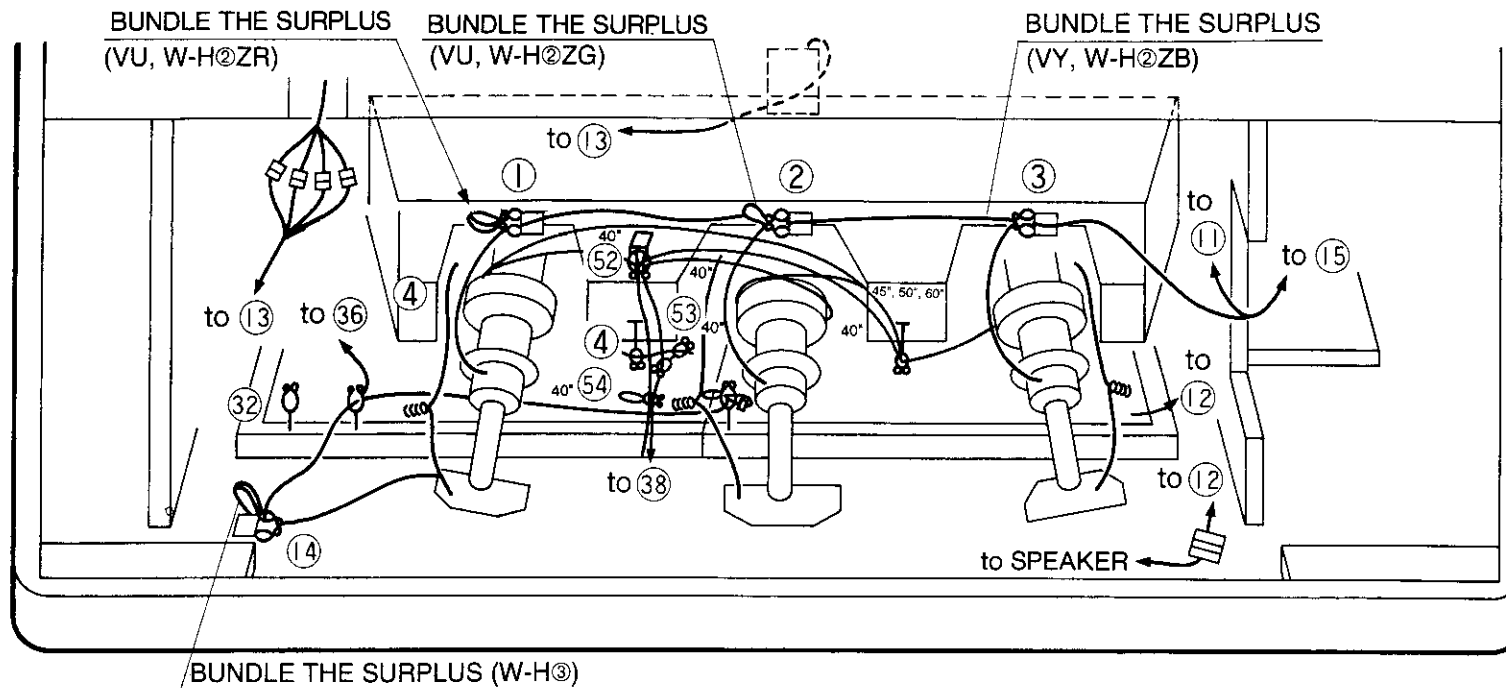
LEAD DRESSING

The lead wires clamped are listed in the table below.

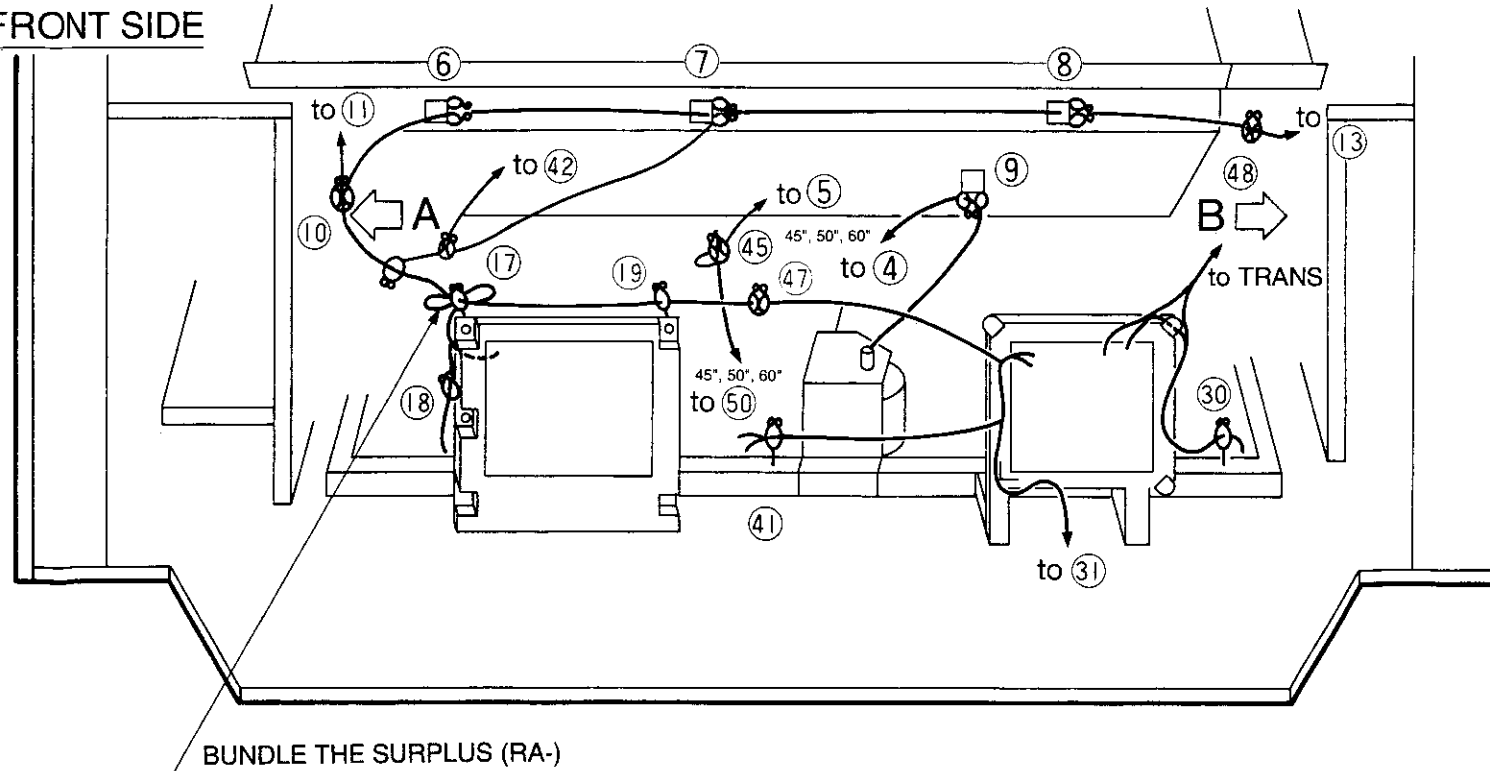
Note: The inner wires are clamped so that they do not come close to the heat generating or high-tension parts. After servicing route all wires in their original position.

The anode lead wires are routed so no tensile strength is applied to the anode cap. If the mounting angle of the anode cap and the route of the anode lead wires are changed return them to the initial angle and route.

REAR SIDE

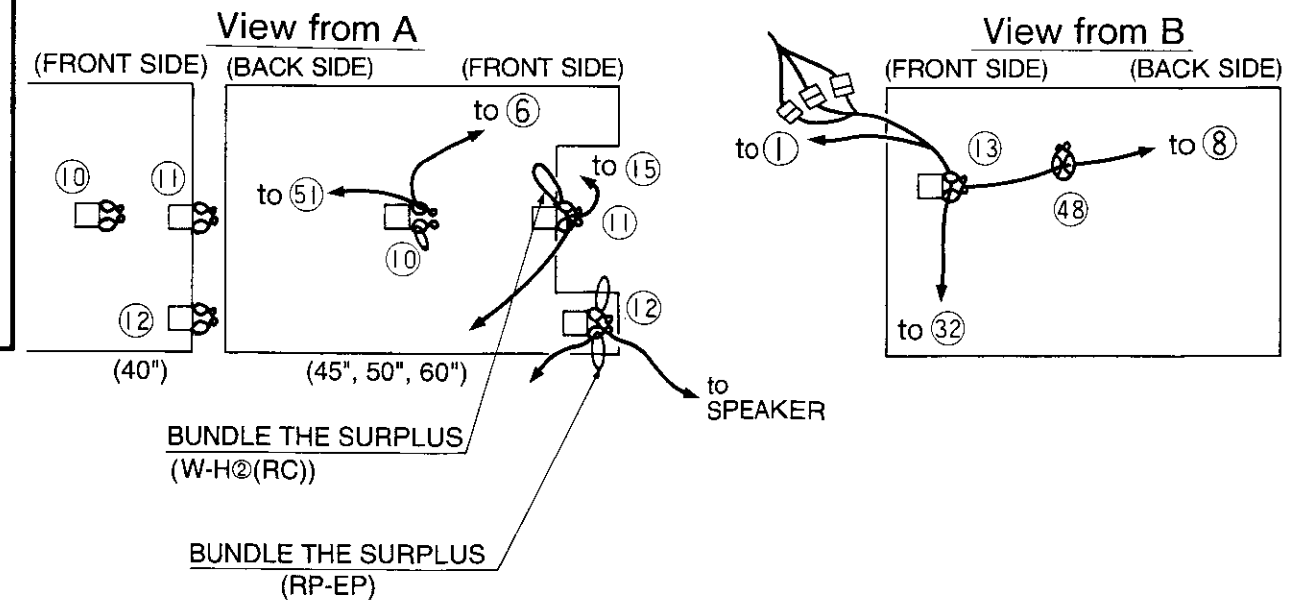


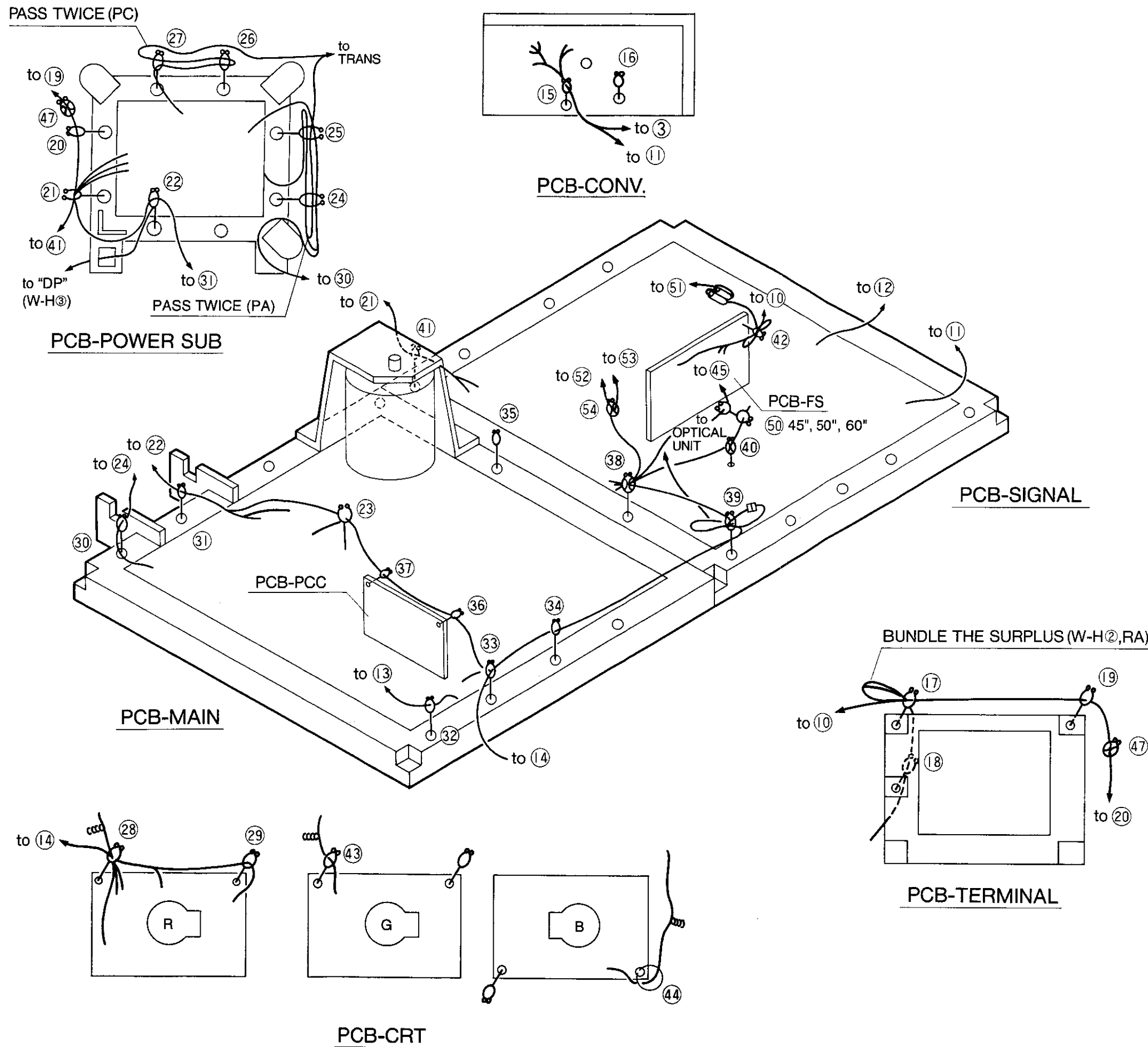
FRONT SIDE



CONNECTOR LEAD and WIRE HARNESS LIST FOR CLAMPER

No.	ITEM	LEAD CONNECTOR or WIRE HARNESS (W-H)
1	OPTICAL UNIT	W-H@, VU-SUB-DY(R) (BUNDLE THE SURPLUS)
2	OPTICAL UNIT	W-H@, VU-SUB-DY(R)
3	OPTICAL UNIT	W-H@, VU-SUB-DY(R), VY-SUB-DY(B)
4	OPTICAL UNIT	ANODE-LEAD
5	OPTICAL UNIT	(B-DY, 40") (R-DY, G-DY, B-DY, 40", 45", 50", 60")
6	OPTICAL UNIT	W-H@, W-H@,
7	OPTICAL UNIT	W-H@, W-H@, AN-RN
8	OPTICAL UNIT	W-H@, W-H@, AN-RN
9	OPTICAL UNIT	ANODE-LEAD
10		W-H@, W-H@
11		W-H@
12		RP-EP (BUNDLE THE SURPLUS)
13		W-H@, W-H@, AN-RN
14		W-H@ (BUNDLE THE SURPLUS)
17	PCB-TERMINAL	W-H@, W-H@, RA- (BUNDLE THE SURPLUS), DJ-RJ, PK-RK
18	PCB-TERMINAL	DJ-RJ, PK-RK, RA
19	PCB-TERMINAL	W-H@, DJ-RJ, PK-RK
30	PCB-MAIN	PB-DB
32	PCB-MAIN	W-H@
41	PCB-SIGNAL	PG-RG, PK-RL
45		{R-DY, G-DY (BUNDLE THE SURPLUS)} {B-DY (PASS TWICE, BUNDLE THE SURPLUS)} 45", 50", 60"
46		
47		W-H@, DJ-RJ, PK-RK
48		W-H@, AN-RN
51		W-H@, W-H@, AN-RN
52	OPTICAL UNIT	{R-DY, G-DY, B-DY (PASS: TWICE)} 40"
53		{R-DY, G-DY, B-DY, ANODE-LEAD} 40"
54		R-DY(PATH THREE), {G-DY, B-DY(PATH TWICE, BUNDLE THE SURPLUS)} 40"

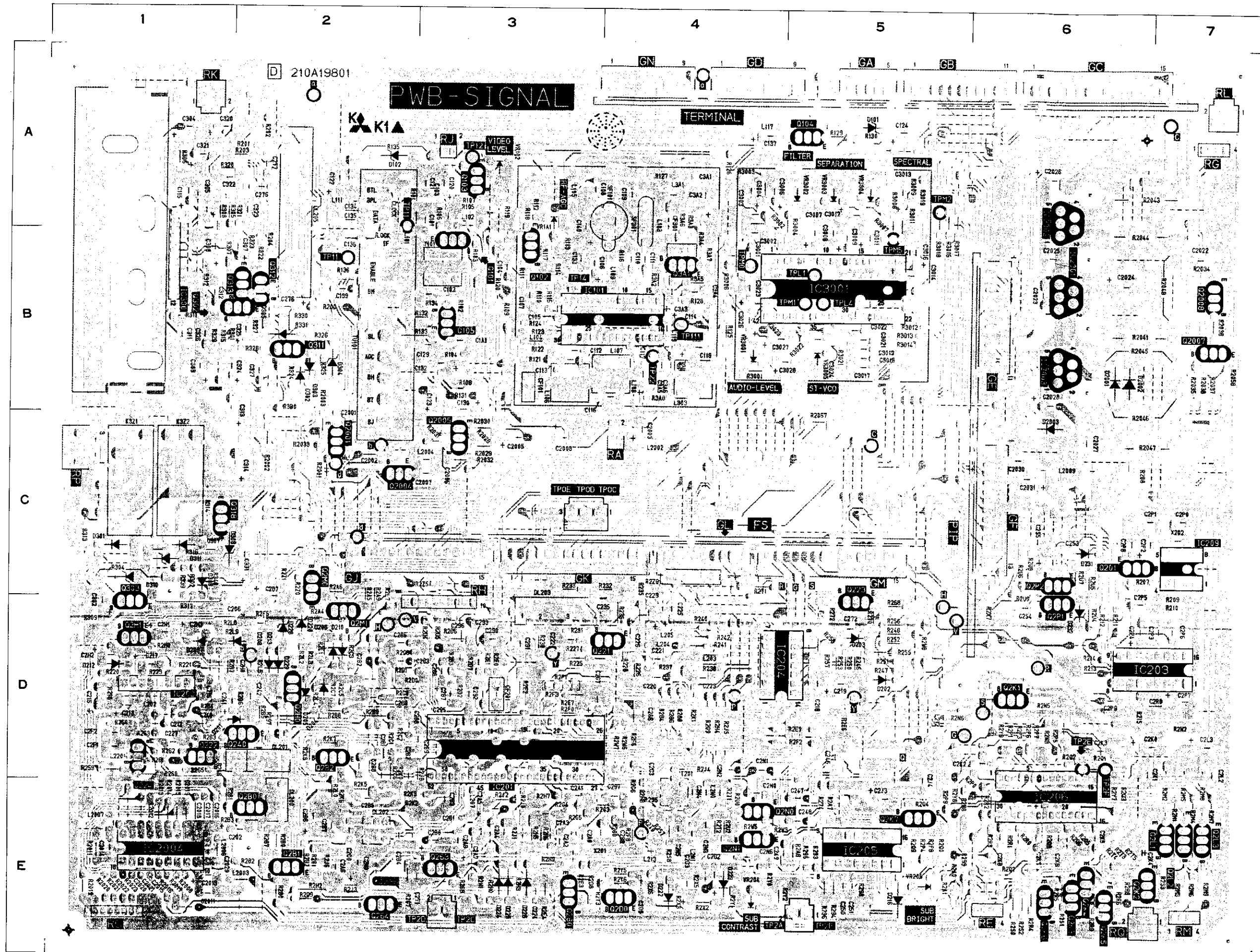




CONNECTOR LEAD and WIRE HARNESS LIST FOR CLAMPER

No.	ITEM	LEAD CONNECTOR or WIRE HARNESS (W-H)
15	PCB-CONV	W-H②, VU-SUB-DY(R), VY-SUB-DY(B)
16	PCB-CONV	VU-SUB-DY(R), VY-SUB-DY(B)
17	PCB-TERMINAL	W-H②, (W-H②, RA- [BUNDLE THE SURPLUS]) DJ-RJ, PK-RK
18	PCB-TERMINAL	DJ-RJ, PK-RK, RA
19	PCB-TERMINAL	W-H②, DJ-RJ, PK-RK
20	PCB-POWER-SUB	W-H②, DJ-RJ, PG-RG, PK-RK, RL (PASS TWICE)
21	PCB-POWER-SUB	W-H②, DJ-RJ, PG-RG, PK-RL(PASS THREE), PZ-DZ
22	PCB-POWER-SUB	W-H②, DJ-RJ, W-H③, PZ-DZ
23	PCB-MAIN	W-H②, W-H③, PZ-DZ
24	PCB-POWER-SUB	PB-DB, PA (PASS TWICE)
25	PCB-POWER-SUB	PB-DB, PA (PASS THREE TIMES)
26	PCB-POWER-SUB	PC (PASS TWICE)
27	PCB-POWER-SUB	PC (PASS TWICE)
28	PCB-CRT	W-H③, SA
29	PCB-CRT	W-H③
30	PCB-MAIN	PB-DB
31	PCB-MAIN	W-H②, DJ-RJ, PZ-DZ, W-H③
32	PCB-MAIN	W-H②
33	PCB-MAIN	W-H③
34	PCB-MAIN	W-H③
35	PCB-MAIN	W-H③
36	PCB-PCC	W-H③
37	PCB-PCC	W-H③
38	PCB-SIGNAL	W-H③, DH-RH, G-DY, B-DY (PASS TWICE 45", 50", 60") R-DY (PASS TWICE 40")
39	PCB-SIGNAL	W-H③ (XY-BUNDLE THE SUR PLUS)
40	PCB-SIGNAL	DH-RH
41	PCB-SIGNAL	PG-RG, PK-RL
42	PCB-SIGNAL	W-H②, AN-RN
43	PCB-CRT	SA
44		SA
47		W-H②, DJ-RJ, PK-RK
50		R-GY, G-DY, B-DY(PASS THREE) DH-RH 45", 50", 60"

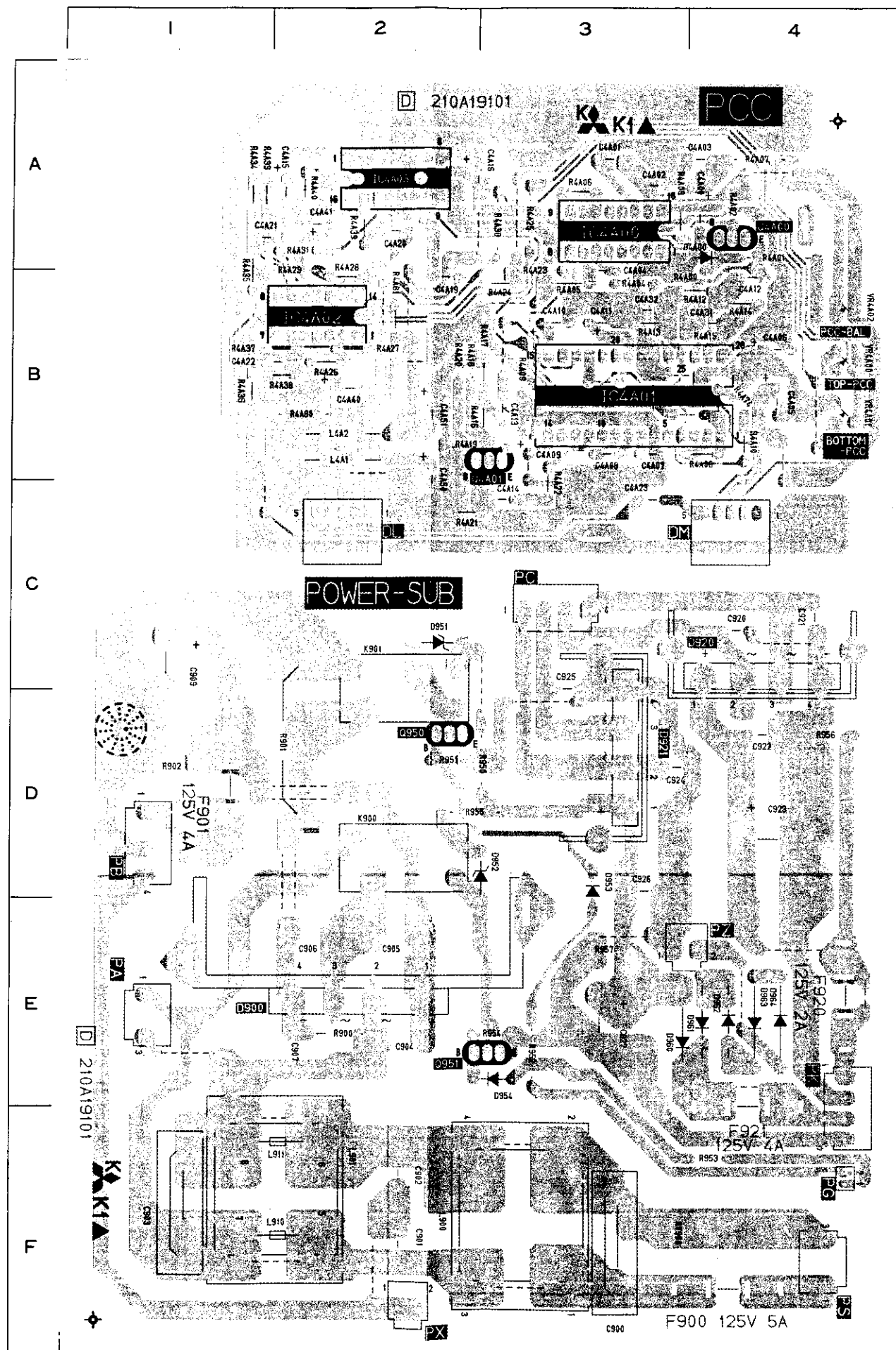
SYMBOL NO.	ADDRESS
CF101	B-3
CF201	D-3
CF301	B-4
D101	A-5
D102	A-2
D201	D-1
D202	D-5
D203	D-5
D204	D-2
D205	D-2
D206	D-2
D208	D-2
D209	D-1
D210	D-2
D212	D-1
D213	D-2
D216	E-5
D220	D-2
D222	E-4
D223	E-4
D224	E-3
D225	E-3
D226	E-3
D228	D-2
D229	D-2
D231	C-6
D232	D-6
D301	C-1
D302	B-2
D303	B-2
D304	B-2
D305	B-2
D307	C-1
D308	C-1
D309	C-1
D310	C-1
D311	C-1
D2001	B-6
D2002	B-6
D2003	C-6
DL200	E-2
DL201	D-2
DL202	E-2
DL203	D-3
DL205	A-2
IC101	B-3
IC201	D-3
IC202	D-1
IC203	D-6
IC204	D-4
IC205	E-5
IC206	E-5
IC209	C-7
IC300	B-1
IC2001	B-6
IC2002	A-6
IC2003	B-6



PCB-PCC/POWER SUB

3-SIGNAL

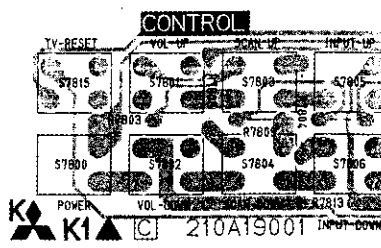
BOL O.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS
01	B-3	IC2004	E-1	Q2K5	E-6	VR3005	B-5
01	D-3	IC3001	B-5	Q2K6	E-6		
01	B-4			Q2K7	E-5	X201	E-3
		K3Z1	C-1	Q2L1	E-7	X202	C-7
		K3Z2	C-1	Q2L2	E-7		
11	A-5			Q2L3	E-7		
12	A-2			Q2M0	C-2		
11	D-1	L101	A-2	Q2M1	D-2		
12	D-5	L102	A-3	Q2N0	E-4		
13	D-5	L103	A-4	Q2N1	E-4		
14	D-2	L104	B-3	Q2P1	C-6		
15	D-2	L105	A-3	Q2P1	D-6		
16	D-2	L106	B-3	Q302	B-2		
18	D-2	L107	B-4	Q303	C-1		
19	D-1	L108	B-4	Q311	B-2		
0	D-2	L109	B-4	Q312	B-2		
2	D-1	L111	A-2	Q313	B-2		
3	D-2	L117	A-4	Q318	C-1		
6	E-5	L202	D-1	Q3A1	B-4		
0	D-2	L203	D-4	Q2001	C-2		
2	E-4	L204	D-4	Q2004	C-2		
3	E-4	L205	D-4	Q2005	C-3		
4	E-3	L207	E-3	Q2007	B-7		
5	E-3	L212	D-5	Q2008	B-7		
6	E-3	L213	E-4				
8	D-2	L220	D-1	SF101	A-4		
9	D-2	L2N0	E-4	SF301	A-4		
1	C-6	L2N1	E-4				
2	D-6	L303	B-4				
1	C-1	L3A1	A-4	T101	B-3		
2	B-2	L2002	C-4	T201	E-4		
3	B-2	L2003	E-2				
4	B-2	L2004	C-3	TP111	B-4		
5	B-2	L2006	E-1	TP11	A-2		
7	C-1	L2007	E-1	TP11	B-2		
8	C-1	L2009	C-6	TP12	A-3		
9	C-1			TP14	B-3		
0	C-1	Q101	B-3	TP22	B-4		
1	C-1	Q102	B-3	TP2A	E-4		
01	B-6	Q103	A-3	TP2B	E-5		
02	B-6	Q104	A-5	TP2C	E-3		
03	C-6	Q105	B-3	TP2D	E-3		
		Q201	C-6	TP2E	D-6		
00	E-2	Q221	D-4	TP2F	D-6		
01	D-2	Q222	D-1	TPL1	B-5		
02	E-2	Q223	C-5	TPL4	B-5		
03	D-3	Q224	D-1	TPM0	B-4		
05	A-2	Q240	D-2	TPM1	B-5		
		Q263	E-3	TPM2	A-5		
01	B-3	Q264	E-2	TPM5	B-5		
01	D-3	Q280	E-3				
02	D-1	Q2B0	E-2	TU101	B-2		
03	D-6	Q2B1	E-2				
04	D-4	Q2B2	D-2	VR102	A-3		
05	E-5	Q2D0	E-4	VR1A1	A-3		
06	E-5	Q2H0	D-2	VR204	E-4		
09	C-7	Q2H1	D-1	VR205	E-5		
00	B-1	Q2K1	D-6	VR3001	B-4		
01	B-6	Q2K2	E-6	VR3002	A-5		
02	A-6	Q2K3	E-6	VR3003	A-5		
03	B-6	Q2K4	E-6	VR3004	A-5		



PCB-PCC/POWER SUB

SYMBOL NO.	ADDRESS
D4A00	A-4
D900	E-1
D920	C-4
D921	D-3
D951	C-2
D952	D-3
D953	D-3
D954	E-3
D960	E-3
D961	E-4
D962	E-4
D963	E-4
D964	E-4
F900	F-3
F901	D-1
F920	E-4
F921	F-4
IC4A00	A-3
IC4A01	B-3
IC4A02	B-2
IC4A03	A-2
K900	D-2
K901	C-2
L4A1	B-2
L4A2	B-2
L900	F-2
L901	F-2
L910	F-2
L911	F-2
Q4A00	A-4
Q4A01	B-2
Q950	D-2
Q951	E-3
VR4A00	B-4
VR4A01	B-4
VR4A02	B-4

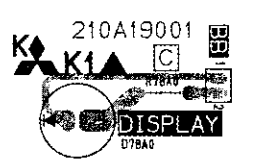
PCB-CONTROL



PCB-PREAMP



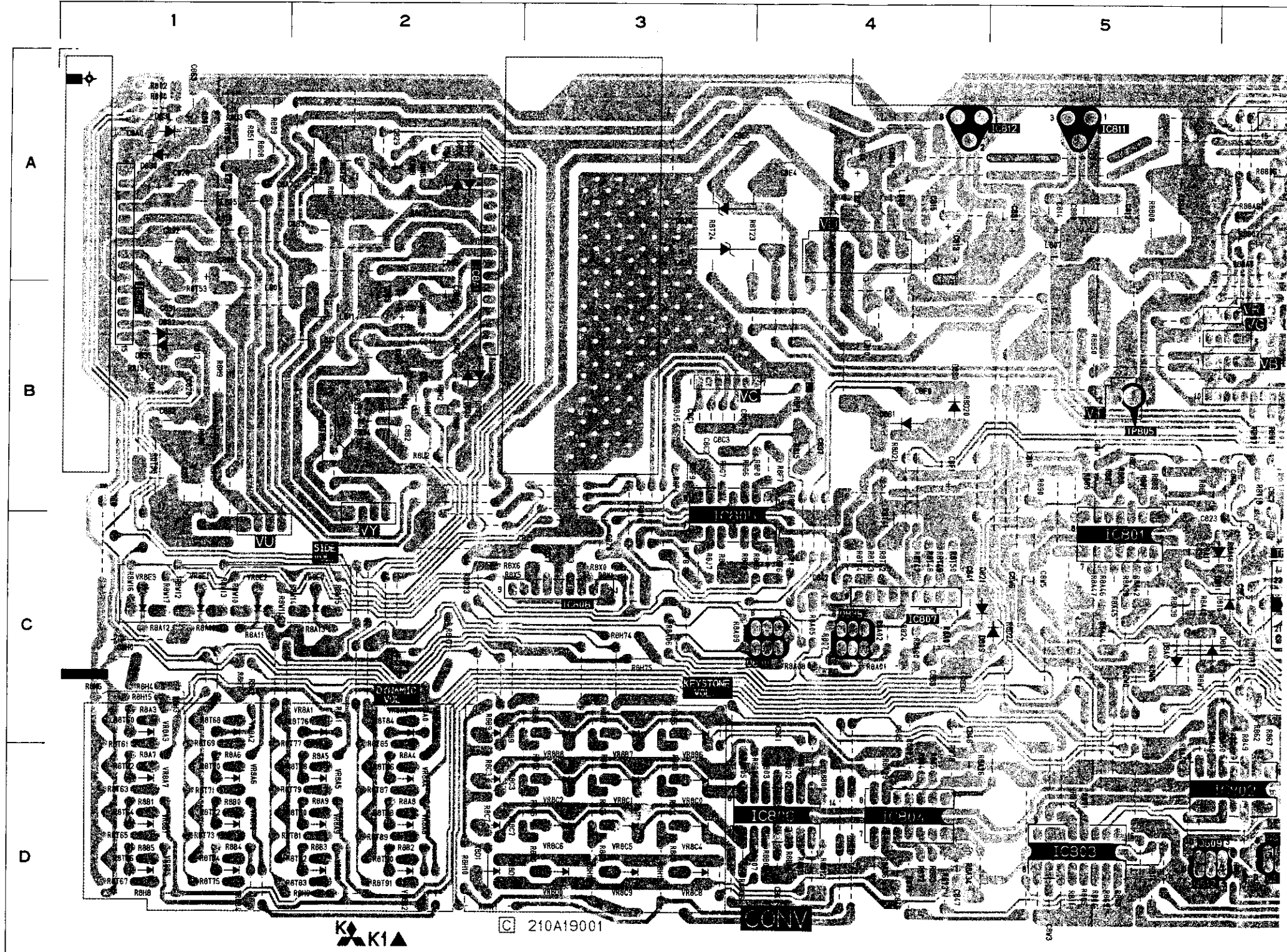
PCB-DISPLAY

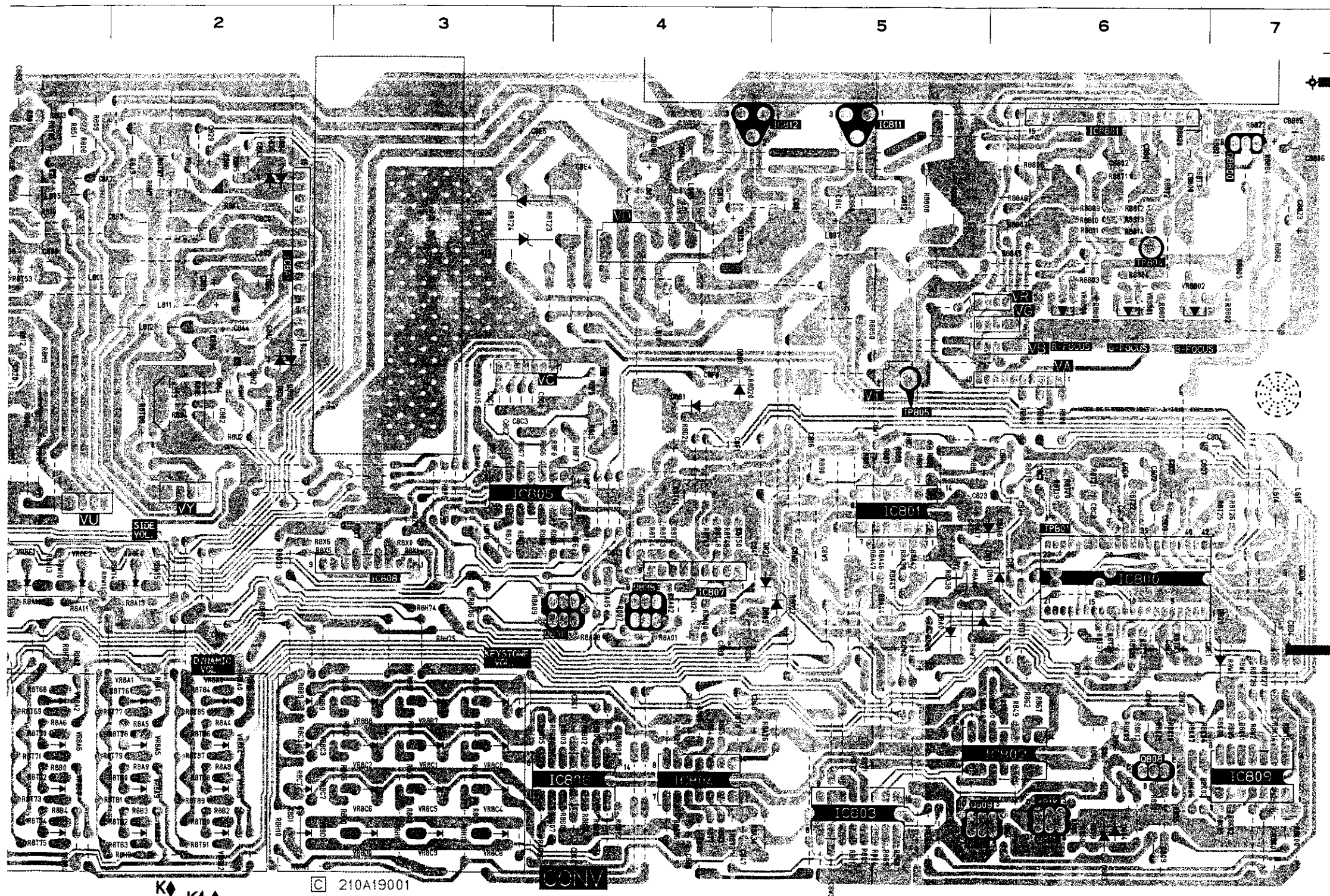


PCB-MAIN

SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS
D400	A-3	Q500	B-6
D401	A-3	Q501	C-6
D500	C-6	Q502	A-5
D501	C-6	Q503	B-5
D502	D-4	Q504	A-5
D503	D-6	Q506	B-6
D504	D-6	Q5000	A-5
D505	E-7	Q5001	B-5
D506	A-5	Q8501	C-2
D507	A-6	Q8521	C-2
D508	A-6	Q8522	C-2
D509	A-5	Q8523	B-2
D510	A-5	Q4802	A-4
D511	B-6	Q4803	B-4
D512	C-4	Q4804	C-4
D515	B-6	Q5A0	B-7
D518	A-2	Q9A0	E-2
D5000	B-5	Q9A40	E-3
D8501	C-2	Q9A41	E-4
D8502	C-1	Q9A42	E-4
D4801	A-2	Q9A43	E-4
D4802	C-3		
D4803	C-3		
D4804	B-4	T500	C-4
D9A01	E-3	T501	D-5
D9A02	D-3	T5000	C-4
D9A03	D-2	T4800	B-3
D9A04	D-3	T9A0	D-2
D9A05	D-3		
D9A06	D-3	TP85	A-5
D9A10	E-2	TP91	A-1
D9A11	D-2	TP92	A-5
D9A13	E-2	TP93	A-5
D9A40	E-4	TP94	B-5
D9A41	E-4	TP95	B-5
D9A42	E-4	TP850	A-1
		TP851	A-1
F9A0	D-4	TP12	A-1
		TPGND	A-2
IC401	A-3	VR400	A-5
IC5000	B-5	VR401	A-5
IC500	A-6	VR5000	A-5
IC8501	C-1	VR8501	A-1
IC8551	B-1		
IC4B04	B-3	Z9A01	D-3
IC9A0	D-1	Z9A02	D-3
IC9A1	E-4		
L500	B-6		
L501	C-5		
L502	C-6		
L503	C-7		
L505	B-6		
L506	B-7		
L4B10	C-3		
L9A01	E-3		
L9A02	E-3		
L9A03	D-4		
L9A10	D-2		
L9A12	D-2		

PCB-CONV

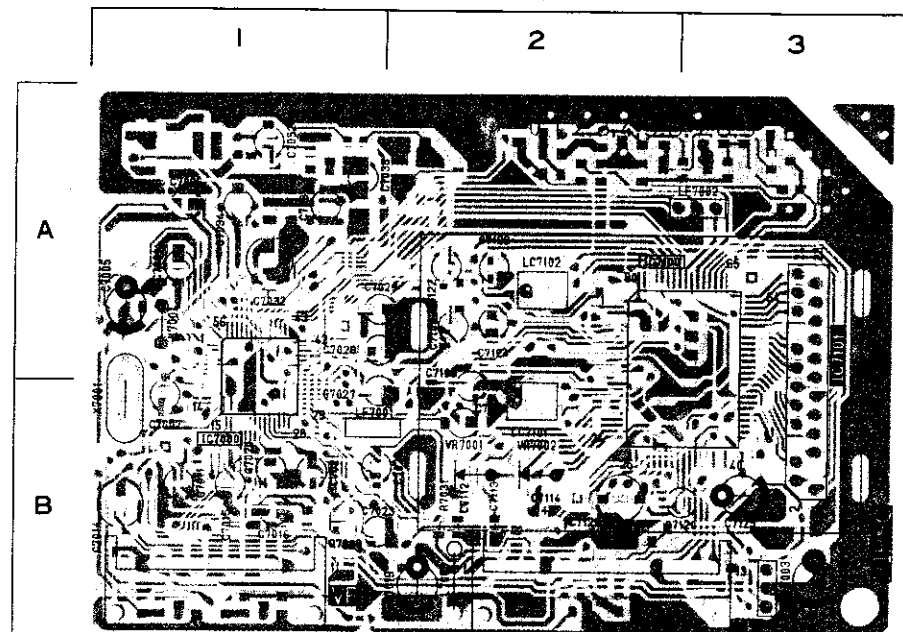




PCB-CONV

SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS
D803	D-6	TP805	B-5
D804	D-6		
D809	C-5	VR8A0	C-2
D810	C-5	VR8A1	C-2
D811	C-5	VR8A2	C-1
D820	C-7	VR8A3	C-1
D821	C-4	VR8A4	D-2
D826	A-3	VR8A5	D-2
D827	A-3	VR8A6	D-1
D830	A-1	VR8A7	D-1
D831	A-1	VR8A8	D-2
D832	B-1	VR8A9	D-2
D833	B-1	VR8B0	D-1
D834	A-2	VR8B1	D-1
D835	A-2	VR8B2	D-2
D836	B-2	VR8B3	D-2
D837	B-2	VR8B4	D-1
D8A0	C-5	VR8B5	D-1
D8A1	C-5	VR8B6	C-3
D8B0	B-4	VR8B7	C-3
D8B1	B-4	VR8B8	C-3
		VR8B9	C-2
IC800	C-6	VR8C0	D-3
IC801	C-5	VR8C1	D-3
IC802	D-5	VR8C2	D-3
IC803	D-5	VR8C3	D-2
IC804	D-4	VR8C4	D-3
IC805	B-3	VR8C5	D-3
IC806	D-4	VR8C6	D-3
IC807	C-4	VR8C7	D-2
IC808	C-3	VR8C8	D-3
IC809	D-6	VR8C9	D-3
IC811	A-5	VR8D0	D-3
IC812	A-4	VR8D1	D-2
IC8801	A-6	VR8E0	C-2
IC8A0	A-1	VR8E1	C-1
IC8A1	A-2	VR8E2	C-1
		VR8E3	C-1
L801	B-1	VR8800	B-6
L805	A-1	VR8801	B-6
L807	A-5	VR8802	B-6
L808	A-4		
L809	A-4		
L810	B-4		
L811	B-2		
L812	B-2		
L814	B-7		
L815	B-7		
Q808	D-6		
Q809	D-6		
Q810	D-6		
Q811	D-6		
Q812	D-6		
Q830	C-4		
Q838	C-4		
Q8800	A-7		
TP801	C-6		
TP804	A-6		

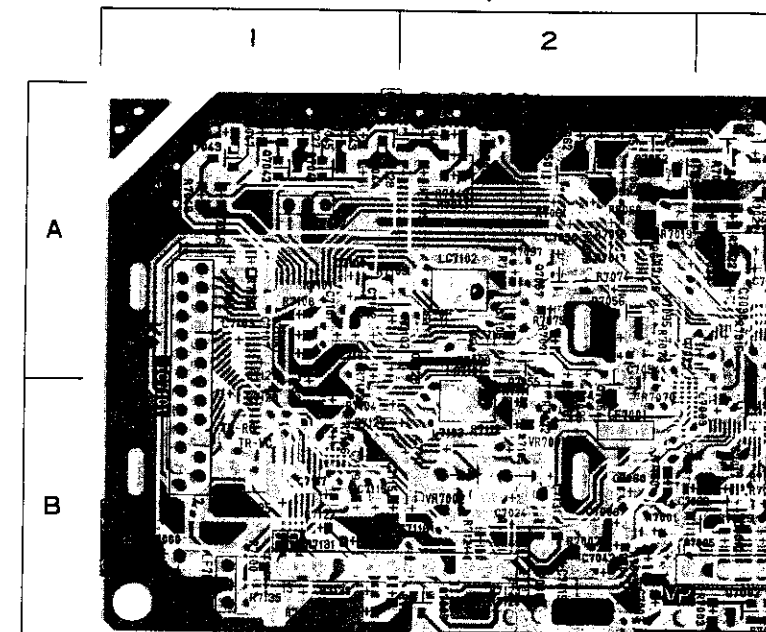
PCB-PIP(COMPONENT SIDE)



PCB-PIP(COMPONENT SIDE)

SYMBOL NO.	ADDRESS
C7001	A-1
C7007	A-1
C7011	B-1
C7014	B-1
C7015	B-1
C7016	B-1
C7020	A-2
C7020	B-1
C7021	B-1
C7023	B-2
C7026	B-2
C7027	B-2
C7029	A-2
C7031	A-1
C7032	A-1
C7034	A-1
C7036	A-1
C7038	A-1
C7052	A-1
C7103	A-2
C7108	B-2
C7109	B-2
C7112	B-2
C7113	B-2
C7114	B-2
C7120	B-2
C7122	A-2
C7123	A-2
C7124	A-2
C7129	B-2
IC7000	A-1
IC7100	A-3
IC7101	A-3
L7000	B-2
L7001	A-1
LC7101	B-2
LC7102	A-2
LF7001	B-2
LF7002	A-3
LF7130	B-3
Q7003	B-1
R7031	B-2
VR7001	B-2
VR7002	B-2
X7001	B-1

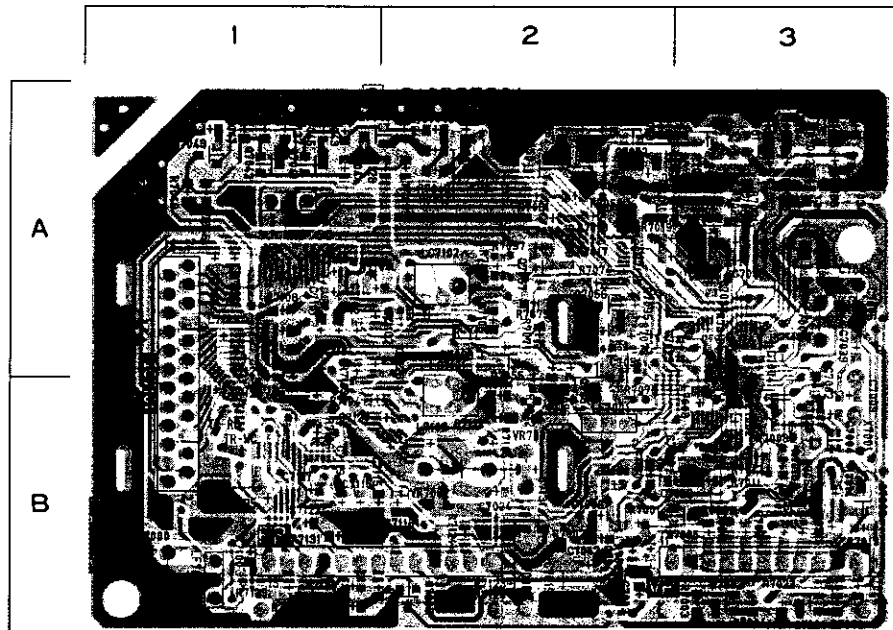
PCB-PIP(SOLDER SIDE)



IENT SIDE]

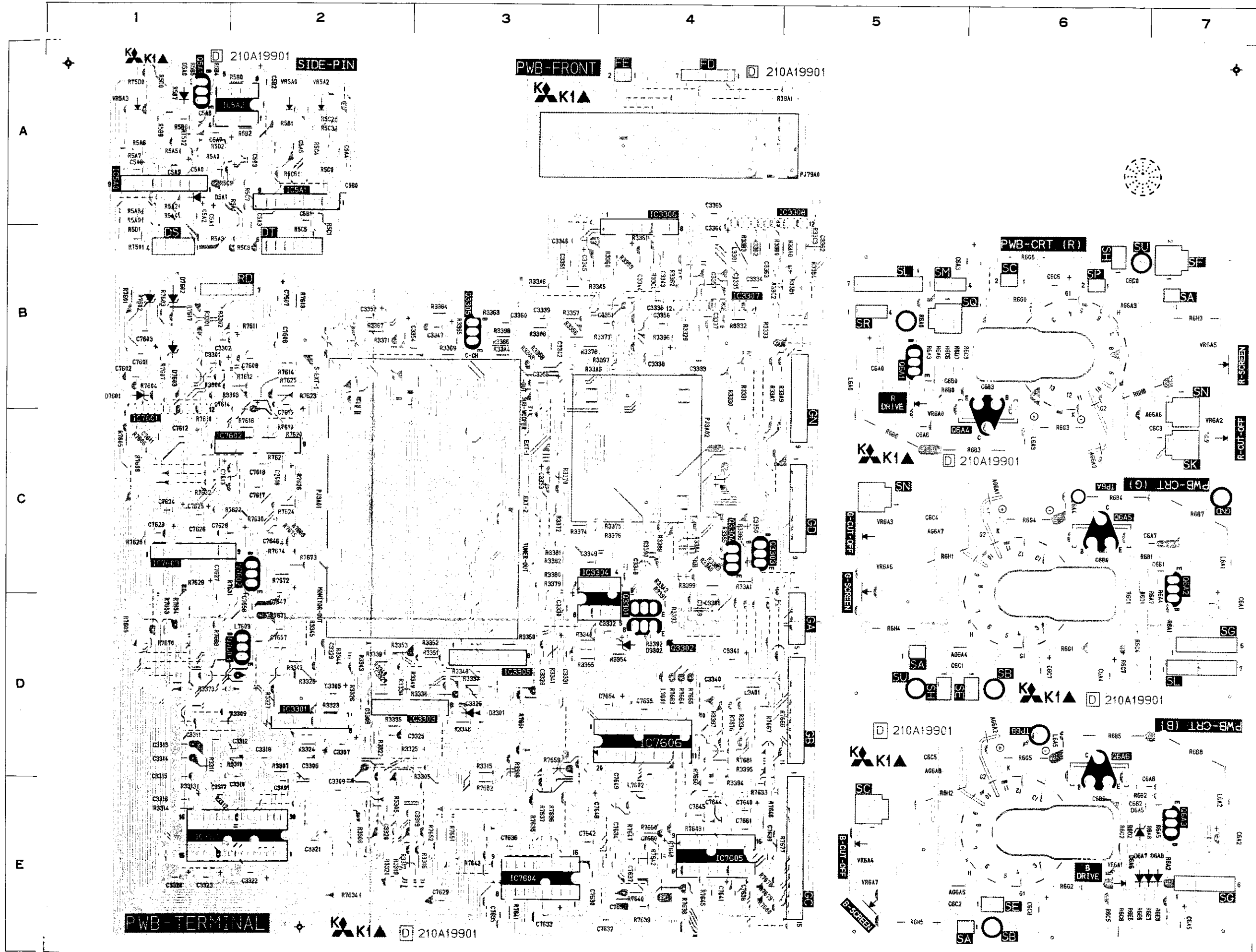
PCB-PIP(SOLDER SIDE)

PCB-PIP(SOLDER SIDE)



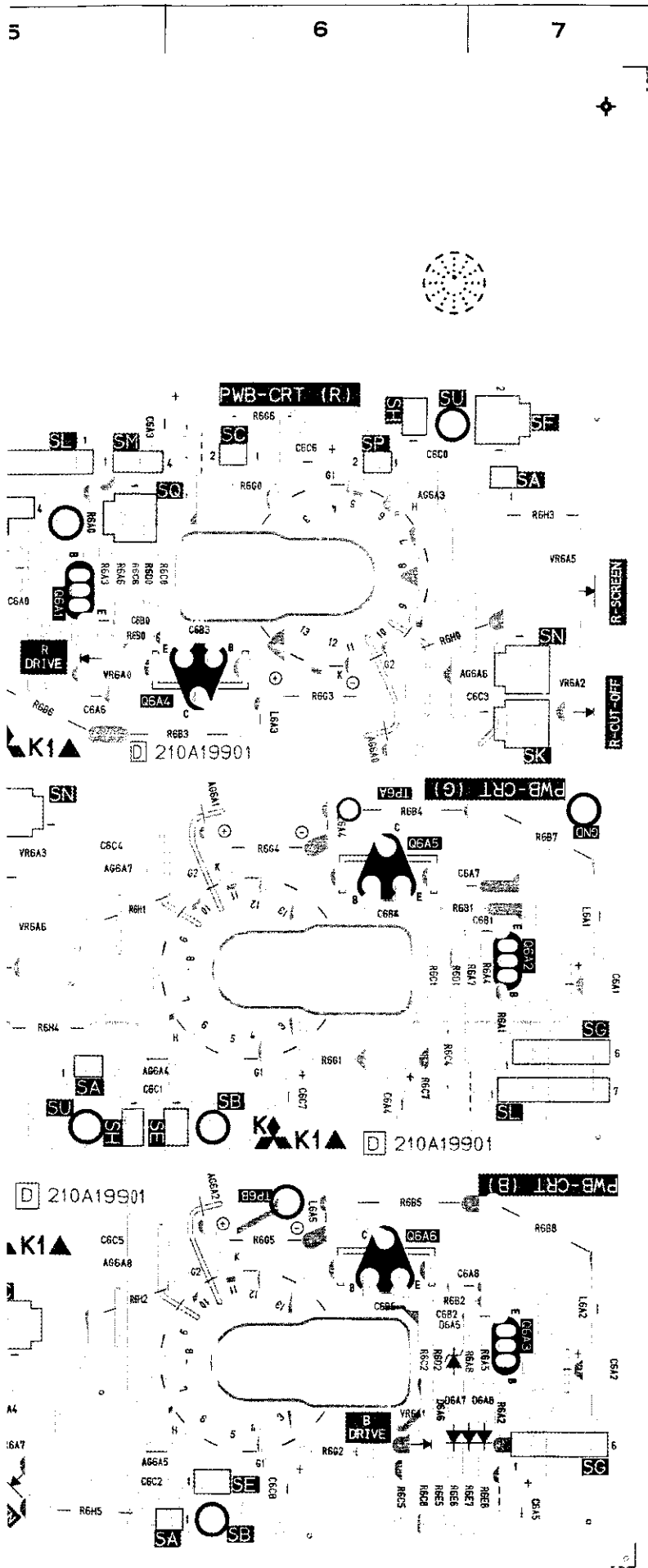
SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS
C7002	B-3	L7103	A-1	R7042	A-2	R7129	A-1
C7003	B-2			R7043	A-1	R7130	B-1
C7004	A-3	LC7101	B-2	R7044	A-1	R7131	B-1
C7005	A-3	LC7102	A-1	R7045	A-1	R7132	A-1
C7006	A-3			R7046	A-1	R7133	A-1
C7008	B-2	LF7000	B-1	R7047	A-1	R7134	B-1
C7009	B-3	LF7001	B-2	R7048	A-1	R7135	B-1
C7010	B-3	LF7002	A-1	R7049	A-1	R7150	B-2
C7012	B-3	LF7003	B-1	R7050	B-3		
C7018	B-3			R7051	B-3	VR7001	B-2
C7022	B-3	Q7001	B-3	R7052	B-3	VR7002	B-2
C7024	B-2	Q7002	B-3	R7060	A-2		
C7025	A-3	Q7004	B-3	R7061	A-2	X7001	B-3
C7030	A-3	Q7005	B-3	R7062	A-2		
C7033	A-3	Q7006	B-3	R7063	A-2		
C7035	A-3	Q7007	B-2	R7064	A-2		
C7037	A-3	Q7040	A-1	R7065	A-3		
C7039	A-3	Q7041	A-1	R7066	A-2		
C7041	B-2	Q7042	A-1	R7067	A-3		
C7042	B-2	Q7043	A-1	R7068	A-3		
C7045	A-2	Q7050	A-2	R7070	B-2		
C7046	A-2	Q7051	A-2	R7071	A-2		
C7047	A-1	Q7052	A-2	R7072	B-2		
C7050	A-2	Q7053	A-3	R7073	A-2		
C7051	A-2	Q7054	A-2	R7074	A-2		
C7053	A-2	Q7055	A-2	R7075	A-2		
C7054	A-2	Q7056	A-2	R7080	A-3		
C7055	A-2	Q7057	A-2	R7081	A-3		
C7060	B-2	Q7058	A-3	R7082	A-3		
C7100	A-1			R7083	A-3		
C7101	A-1	R7001	B-2	R7084	A-3		
C7102	A-1	R7002	B-3	R7085	A-3		
C7104	A-1	R7003	B-3	R7086	A-3		
C7105	A-2	R7004	B-3	R7087	A-2		
C7106	A-1	R7007	B-2	R7088	A-2		
C7107	A-1	R7008	B-3	R7095	A-2		
C7107	B-3	R7009	B-2	R7096	A-2		
C7110	B-1	R7010	B-3	R7097	A-2		
C7111	B-1	R7011	B-3	R7098	A-2		
C7115	B-1	R7012	B-3	R7099	A-2		
C7117	B-1	R7013	B-3	R7100	B-1		
C7118	B-2	R7014	B-3	R7101	A-1		
C7119	B-1	R7015	B-3	R7102	A-2		
C7121	A-1	R7016	A-3	R7103	A-1		
C7125	B-1	R7017	A-2	R7104	B-1		
C7126	A-1	R7018	A-2	R7105	B-2		
C7127	B-1	R7019	A-3	R7106	B-1		
C7128	B-1	R7020	A-3	R7107	A-2		
C7131	B-2	R7021	A-3	R7108	A-1		
		R7022	A-3	R7109	A-1		
D7001	A-3	R7023	B-3	R7111	B-2		
		R7024	B-3	R7112	B-2		
IC7101	A-1	R7025	B-2	R7121	B-2		
IC7116	B-1	R7026	B-1	R7122	B-1		
		R7027	B-3	R7123	B-2		
L7000	B-2	R7028	B-3	R7124	B-2		
L7001	A-3	R7029	B-3	R7125	A-2		
L7002	B-3	R7034	A-3	R7126	A-2		
L7003	B-3	R7040	A-2	R7127	A-1		
L7102	B-2	R7041	A-2	R7128	A-1		

VS-40VA2
 VS-45VA1
 VS-45VA2
 VS-50VA1
 VS-50VA2
 VS-60VA2
 VS-45VA2CA
 VS-50VA2CA
 VS-60VA2CA(6/6)



PCB-SIDE-PIN/TERMINAL

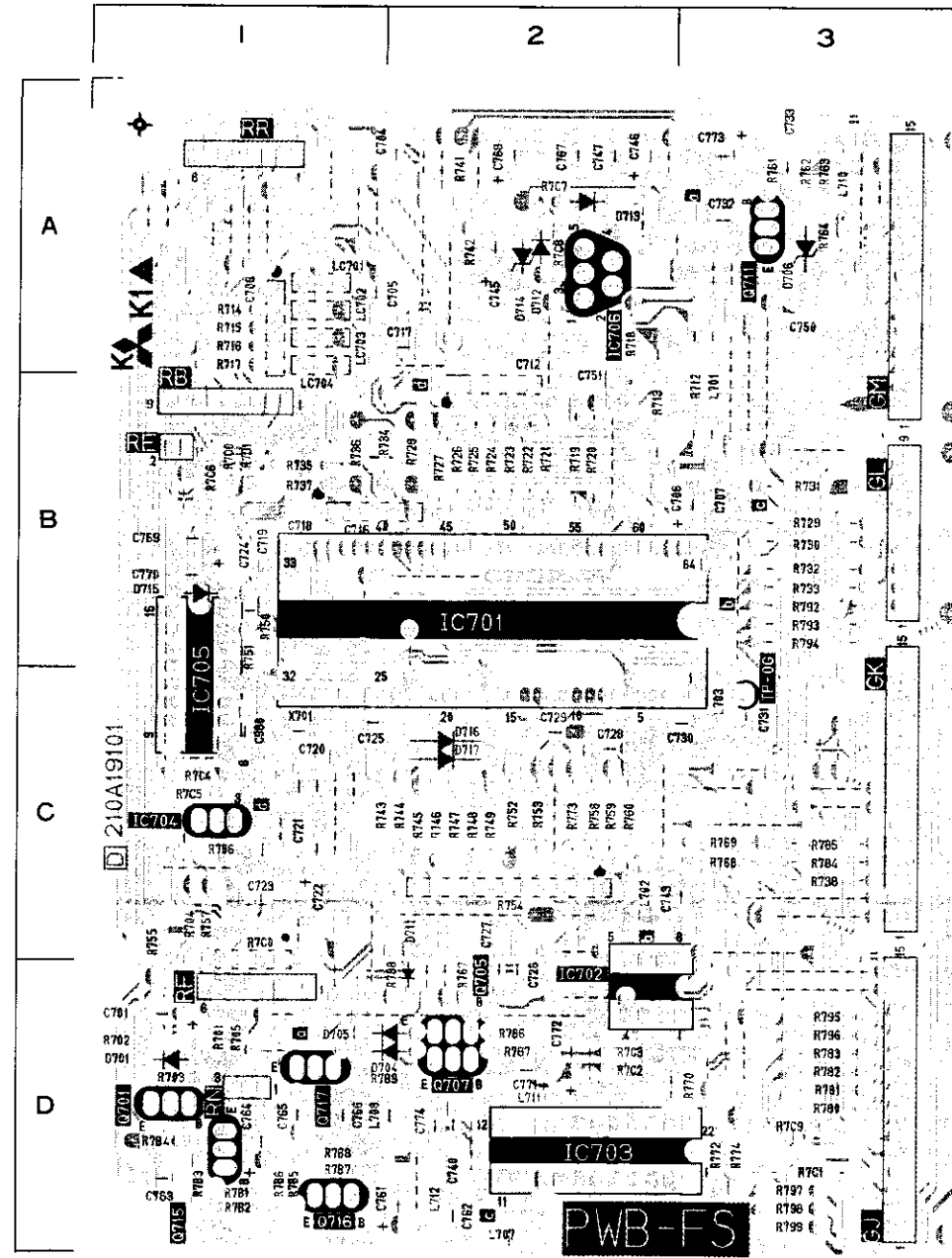
SYMBOL NO.	ADDRESS	SYMBOL NO.	AC
D5A0	A - 1	TP6B	
D5A1	A - 1		
D6A5	E - 6	VR5A0	
D6A6	E - 6	VR5A2	
D6A7	E - 7	VR5A3	
D6A8	E - 7	VR6A0	
D3301	D - 3	VR6A1	
D3302	D - 4	VR6A2	
D7601	B - 1	VR6A3	
D7602	B - 1	VR6A4	
D7603	B - 1	VR6A5	
		VR6A6	
		VR6A7	
GND	C - 7		
IC5A0	A - 1		
IC5A1	A - 1		
IC5A2	A - 1		
IC3301	D - 2		
IC3302	E - 1		
IC3303	D - 2		
IC3304	C - 4		
IC3305	D - 3		
IC3306	A - 4		
IC3307	B - 4		
IC3308	A - 4		
IC7601	C - 1		
IC7602	C - 2		
IC7603	C - 1		
IC7604	E - 3		
IC7605	E - 4		
IC7606	D - 4		
L3A01	D - 4		
L6A0	B - 5		
L6A1	C - 7		
L6A2	E - 7		
L6A3	C - 6		
L6A4	C - 6		
L6A5	D - 6		
L3301	B - 4		
L7601	D - 4		
L7602	E - 4		
L7603	D - 2		
Q5A1	A - 1		
Q6A1	B - 5		
Q6A2	C - 7		
Q6A3	E - 7		
Q6A4	C - 6		
Q6A5	C - 6		
Q6A6	D - 6		
Q3301	D - 4		
Q3302	D - 4		
Q3303	C - 4		
Q3304	C - 4		
Q3305	B - 3		
Q7602	C - 2		
Q7603	D - 2		
TP6A	C - 6		



PCB-SIDE-PIN/TERMINAL/FRONT/FOR CRT

SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS
D5A0	A-1	TP6B	D-6
D5A1	A-1		
D6A5	E-6	VR5A0	A-1
D6A6	E-6	VR5A2	A-1
D6A7	E-7	VR5A3	A-1
D6A8	E-7	VR6A0	B-5
D3301	D-3	VR6A1	E-6
D3302	D-4	VR6A2	C-7
D7601	B-1	VR6A3	C-5
D7602	B-1	VR6A4	E-5
D7603	B-1	VR6A5	B-7
		VR6A6	C-5
		VR6A7	E-5
GND	C-7		
IC5A0	A-1		
IC5A1	A-1		
IC5A2	A-1		
IC3301	D-2		
IC3302	E-1		
IC3303	D-2		
IC3304	C-4		
IC3305	D-3		
IC3306	A-4		
IC3307	B-4		
IC3308	A-4		
IC7601	C-1		
IC7602	C-2		
IC7603	C-1		
IC7604	E-3		
IC7605	E-4		
IC7606	D-4		
L3A01	D-4		
L6A0	B-5		
L6A1	C-7		
L6A2	E-7		
L6A3	C-6		
L6A4	C-6		
L6A5	D-6		
L3301	B-4		
L7601	D-4		
L7602	E-4		
L7603	D-2		
Q5A1	A-1		
Q6A1	B-5		
Q6A2	C-7		
Q6A3	E-7		
Q6A4	C-6		
Q6A5	C-6		
Q6A6	D-6		
Q3301	D-4		
Q3302	D-4		
Q3303	C-4		
Q3304	C-4		
Q3305	B-3		
Q7602	C-2		
Q7603	D-2		
TP6A	C-6		

PCB-FS



PCB-FS

SYMBOL NO.	ADDRESS
D701	D-1
D704	D-1
D705	D-1
D706	A-3
D711	D-2
D712	A-2
D713	A-2
D714	A-2
D715	B-1
D716	C-2
D717	C-2
IC701	B-2
IC702	D-2
IC703	D-2
IC704	C-1
IC705	B-1
IC706	A-2
L701	B-3
L702	C-2
L707	D-2
L708	D-1
L710	A-3
L711	D-2
L712	D-2
LC701	A-1
LC702	A-1
LC703	A-1
LC704	A-1
Q701	D-1
Q705	D-2
Q707	D-2
Q711	A-3
Q715	D-1
Q716	D-1
Q717	D-1
TP-0G	C-3
X701	C-1