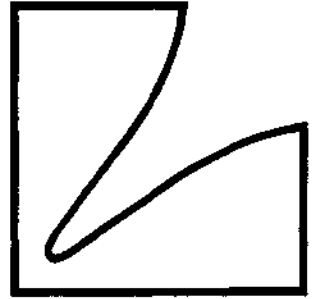
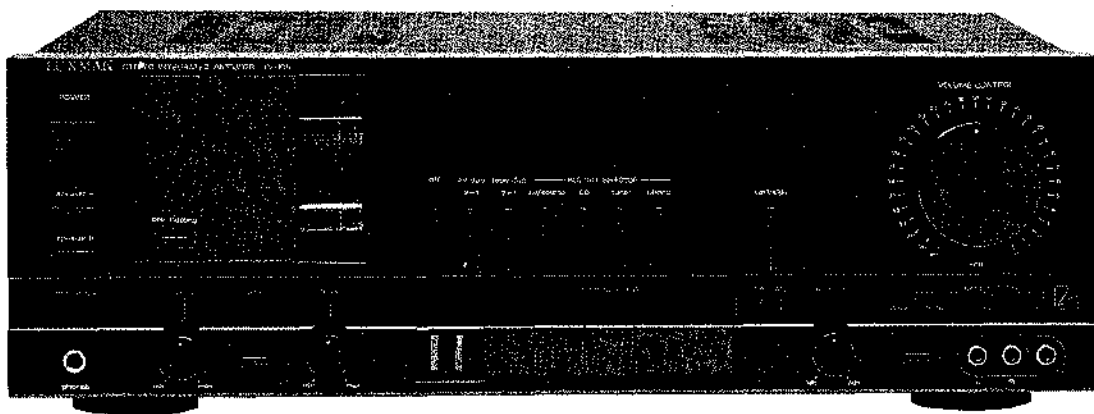


SERVICE MANUAL



Stereo Integrated Amplifier

LV-105



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Specifications

Power-Output	70W (0.25% THD at 20 ~ 20 kHz)
Head-phones Output	(80W/8 ohm - 1 kHz) 425mV ±10%
Input Sensitivity (1 kHz)	TUNER: 150mV ±10%, CD: 150mV ±10%, TAPE-1, -2: 150mV ±10%, AV-1, -2: 150mV ±10%, PHONE (MM): 2.3mV ±10%, PHONE (MC): 130μV ±10%
Input Impedance (1 kHz)	TUNER: 45K ohm ±10%, CD: 45K ohm ±10%, TAPE-1, -2: 45K ohm ±10%, AV-1, -2: 45K ohm ±10%, PHONE (MM): 47K ohm ±10%, PHONE (MC): 100 ohm ±10%
Frequency Response	TUNER: 10 - 100 kHz +0.6 -2.0 dB, CD: 10 - 100 kHz +0.6 -2.0 dB, TAPE-1, -2: 10 - 100 kHz +0.6 -2.0 dB, PHONE (MM/MC): 100 Hz ±0.5 dB, AV-1, 2 (audio): 10 - 100 kHz +0.6 -2.0 dB, AV-1, 2 (video): 10 - 6 MHz
Signal to Noise Ratio (A)	TUNER: 86 dB, CD: 86 dB, TAPE-1, -2: 86 dB, AV-1, -2: 86 dB, PHONE (MM): 70 dB, PHONE (MC): 46 dB
Power Supply	220V, 50 Hz (For SK, SH model only), 100V, 60 Hz (For JK model only), 240V, 50 Hz (For SG model only), 120V, 60 Hz (For EZ model only)
Power Consumption	250W
Semiconductors	3 ICs, 39 Transistors, 10 FETs, 12 Zener Diodes, 32 Diodes, 2 Vacuum Tubes
Dimension	438(W) x 148(H) x 353(D) mm
Weight	10.2 kg

Parts Locations and Disassembly Instructions

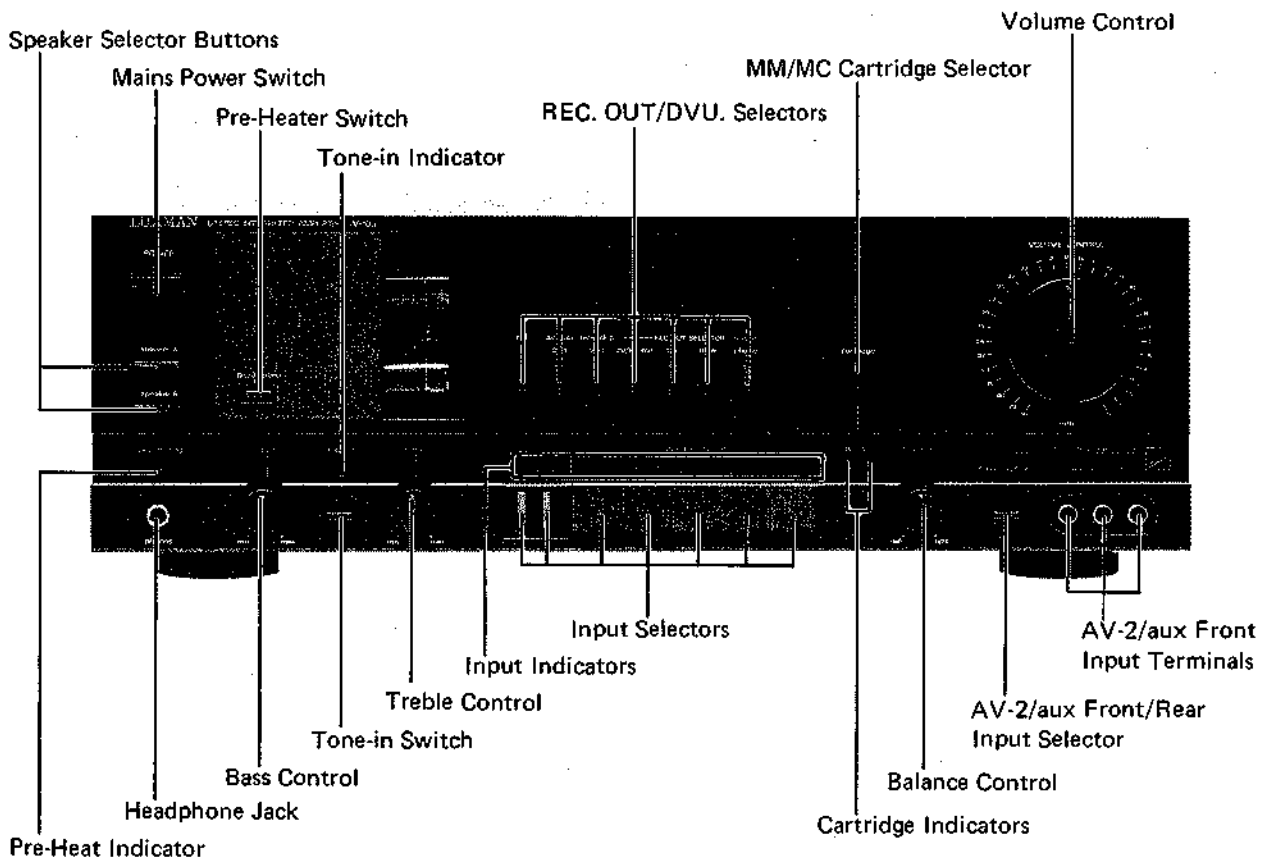


Figure 1

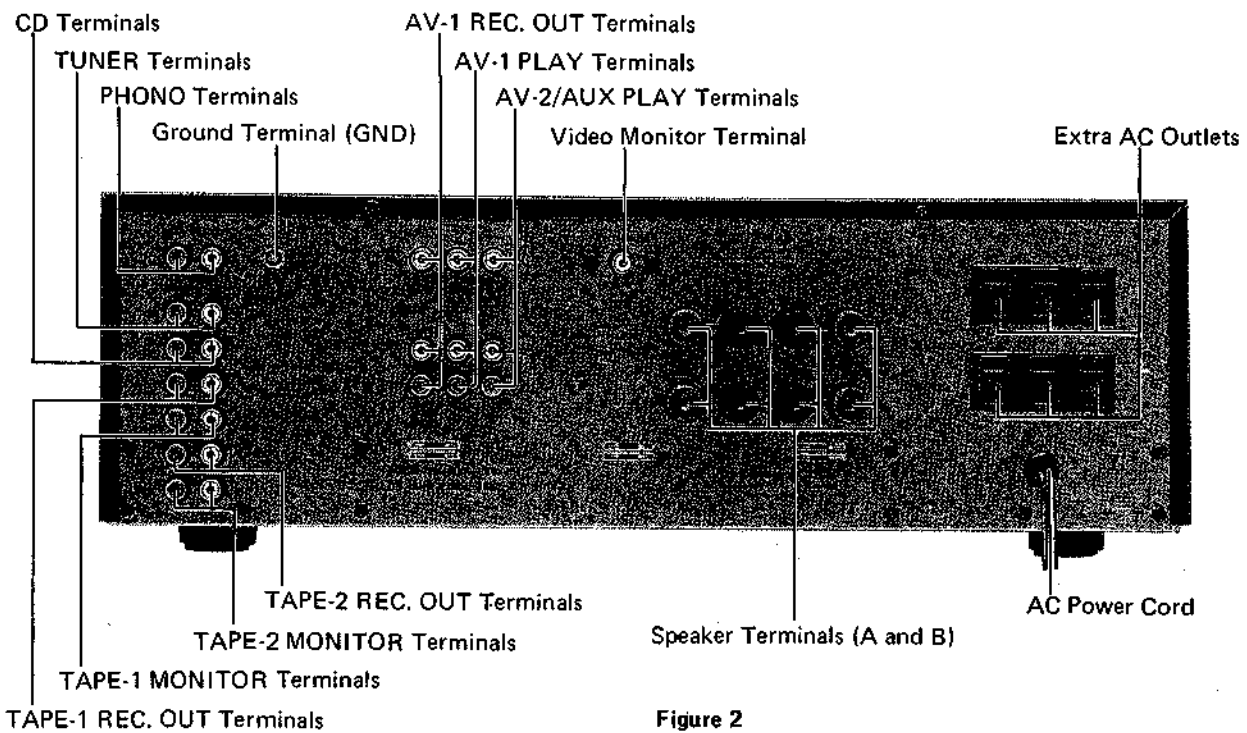


Figure 2

1. Removal of Top Cover

- (1) Remove six screws marked "○" as shown in Figure 3 and 4.
- (2) Pull out the Top cover in the direction of the arrow as shown in Figure 3.

2. Removal of Front Panel

- (1) Remove the volume control knob as shown in Figure 3.
- (2) Remove three screws marked "△" as shown in Figure 5.
- (3) Front panel can be removed by pulling it forward. But when the panel is engaged tightly, pull the panel end little by little, and the panel will be removed easily.

3. Removal of Front Escutcheon

- (1) After removal of Front Panel, remove three control knobs (bass, treble, balance), remove two hooks (a), and remove six screws marked "※" as shown in Figure 3, 4 and 6.
- (2) Disconnect all wires from the Front Escutcheon.
- (3) The Front Escutcheon with Function, Tone and Headphone P.C. Boards can be removed completely.

4. Removal of Function P.C. Board

- (1) After removal of Front Escutcheon, remove four hooks (b) as shown in Figure 7.

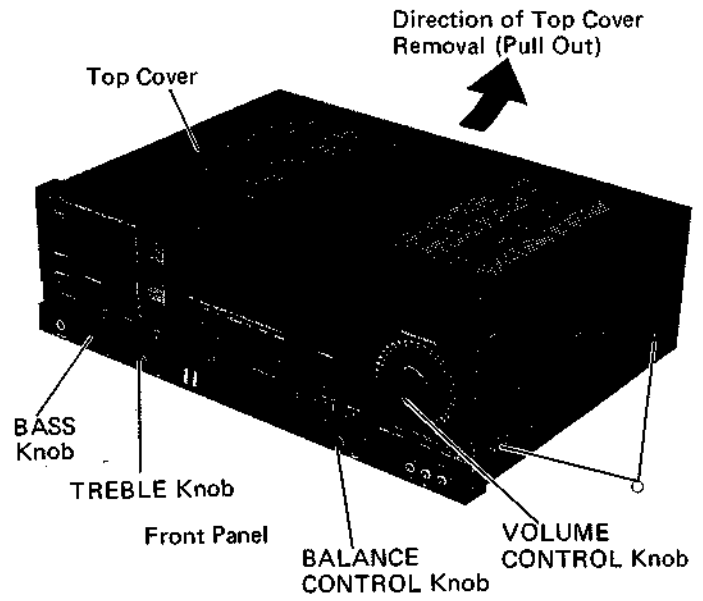


Figure 3

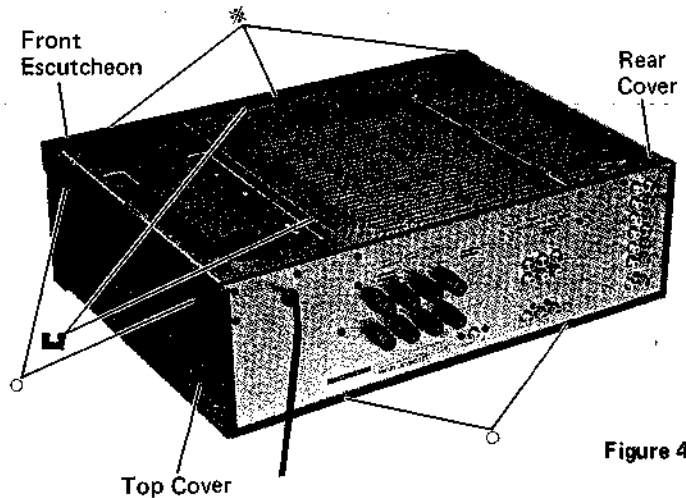


Figure 4

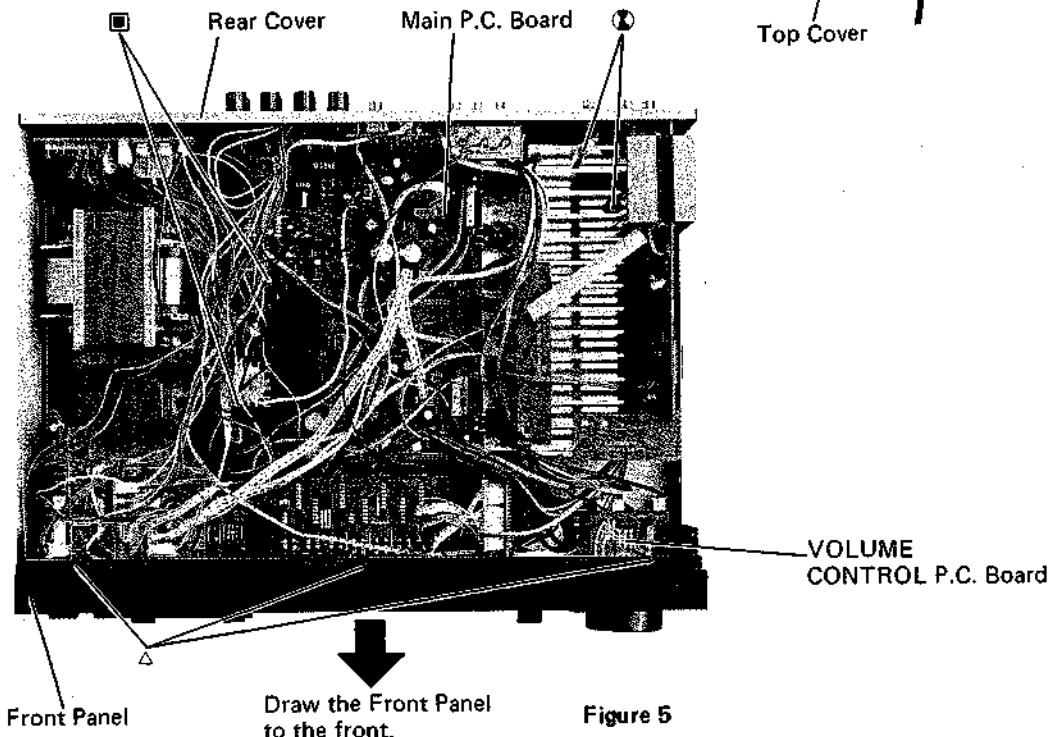


Figure 5

5. Removal of Tone P.C. Board

- (1) After removal of Front Escutcheon, remove two hooks (c) as shown in Figure 7.

6. Removal of Headphone P.C. Board

- (1) After removal of Front Escutcheon, remove two screws marked "◎" as shown in Figure 7.

7. Removal of Front Chassis

- (1) After removal of Front Escutcheon, remove seven screws marked "☆" as shown in Figure 8.
- (2) Remove Front Chassis upward and then proceed to items 7-1 ~ 7-9.

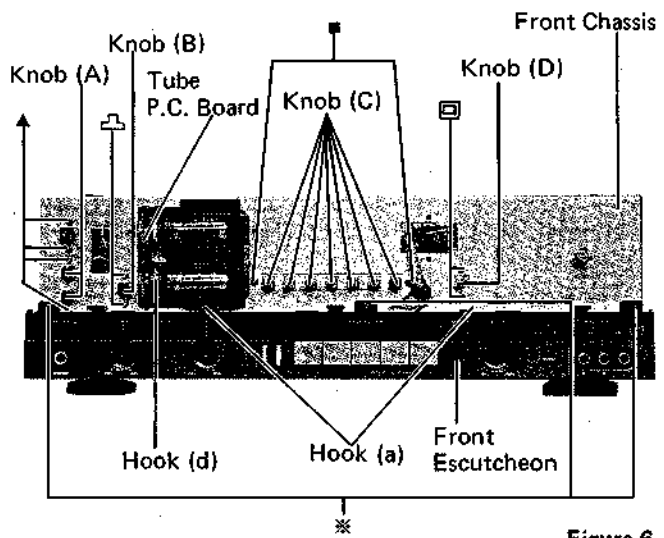


Figure 6

7-1. Removal of Speaker Switch P.C. Board

- (1) Remove three knobs (A) and remove four screws marked "▲" as shown in Figure 6.
- (2) Disconnect all wires from the Speaker Switch P.C. Board.

7-2. Removal of Heat-UP Switch P.C. Board

- (1) Remove one knob (B) and remove two screws marked "□" as shown in Figure 6.
- (2) Disconnect all wires from the Heat up Switch P.C. Board.

7-3. Removal of Tube P.C. Board

- (1) Remove two screws marked "■" as shown in Figure 9.
- (2) Remove one hook (d) as shown in Figure 6.
- (3) Disconnect all wires from the Tube P.C. Board.

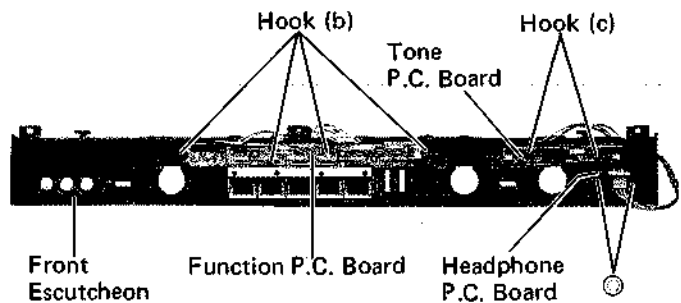


Figure 7

7-4. Removal of Rec Selector P.C. Board

- (1) Remove two screws marked "■" and remove seven knobs (c) as shown in Figure 6.
- (2) Disconnect all wires from the Rec Selector P.C. Board.

7-5. Removal of MM/MC P.C. Board

- (1) Remove one knob (D) and remove two screws marked "□" as shown in Figure 6.
- (2) Disconnect all wires from the MM/MC P.C. Board.

7-6. Removal of Volume Control P.C. Board

- (1) Remove one nut (A) and one washer (A) as shown in Figure 8.
- (2) Disconnect all wires from the Volume Control P.C. Board.

7-7. Removal of Tone Control P.C. Board

- (1) Remove one knob (E) and six screws marked "●" as shown in Figure 8.
- (2) Remove two nuts (B) as shown in Figure 8.
- (3) Disconnect all wires from the Tone Control P.C. Board.

7-8. Removal of Function P.C. Board

- (1) Remove seven knobs (F) and remove four screws marked "●" as shown in Figure 8.
- (2) Remove one nut (c) as shown in Figure 8.
- (3) Disconnect all wires from the Function P.C. Board.

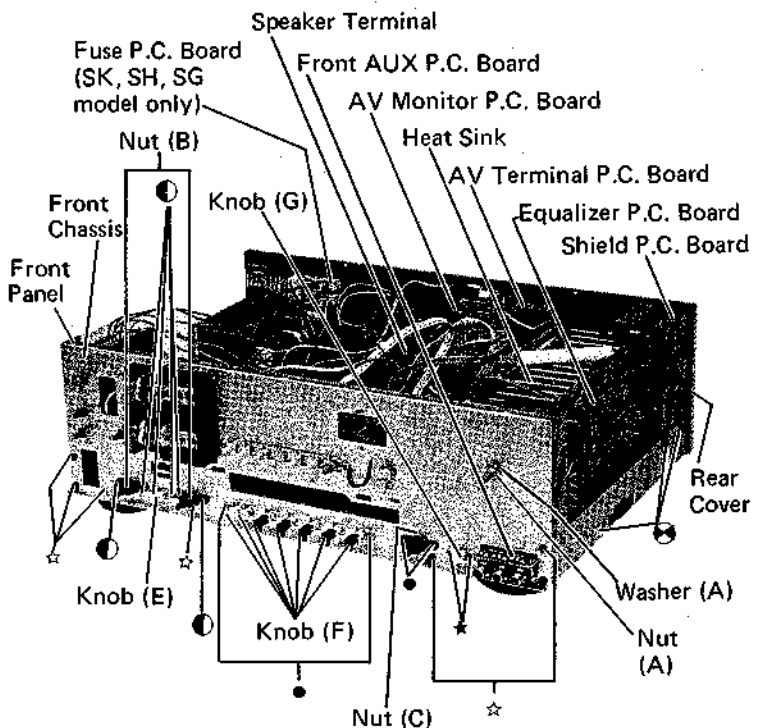


Figure 8

7-9. Removal of Front Aux P.C. Board

- (1) Remove one knob (G) and remove two screws marked "★" as shown in Figure 8.
- (2) Disconnect all wires from the Front Aux P.C. Board.

8. Removal of AV Terminal P.C. Board and AV Monitor P.C. Board

- (1) Remove six screws marked "⊖" as shown in Figure 10.
- (2) Disconnect all wires from these P.C. Boards.

9. Removal of Equalizer P.C. Board

- (1) Remove ten screws marked "⊗" as shown in Figure 5, 8 and 10.
- (2) Disconnect all wires from the Equalizer P.C. Board.

10. Removal of Speaker Terminal P.C. Board

- (1) Remove four screws marked "⊗" as shown in Figure 10.
- (2) Disconnect all wires from the Speaker Terminal P.C. Board.

11. Removal of Rear Cover (JK, EZ model only)

- (1) After removal of Equalizer P.C. Board remove ten screws marked "△" as shown in Figure 10.
- (2) Disconnect all wires from the Acoutlet.

Removal of Rear Cover and Fuse P.C. Board (SK, SH, SG model only)

- (1) After removal of Equalizer P.C. Board remove one screw marked "⊙" and one hook (3) as shown in Figure 12.
- (2) Disconnect all wires from the Fuse P.C. Board.
- (3) Remove ten screws marked "△" as shown in Figure 10.

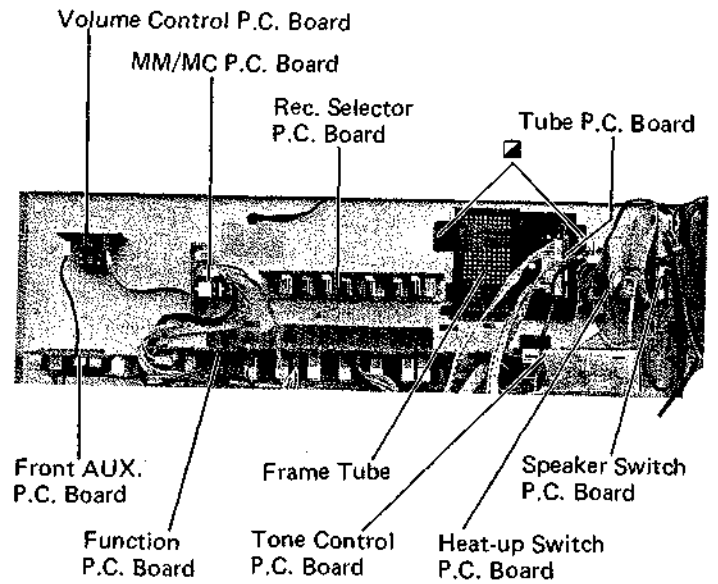


Figure 9

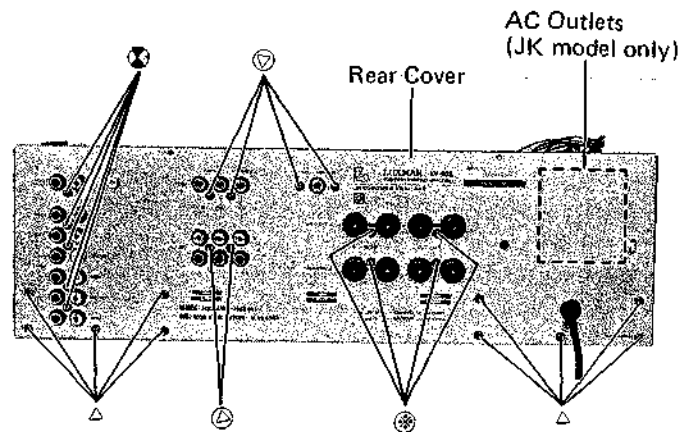


Figure 10

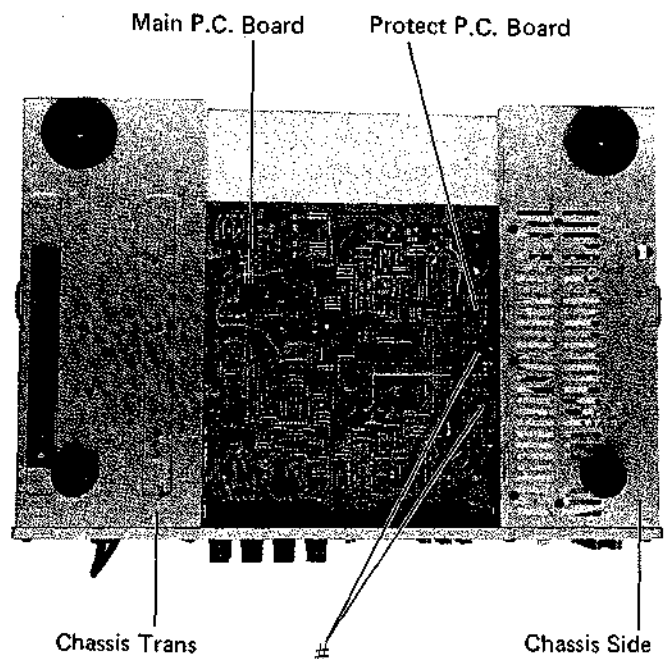


Figure 11

12. Removal of Protect P.C. Board

- (1) Remove two screws marked "☐" as shown in Figure 4.
- (2) After removal of chassis bottom, remove two screws marked "#" as shown in Figure 11.
- (3) Disconnect all wires from the Protect P.C. Board.

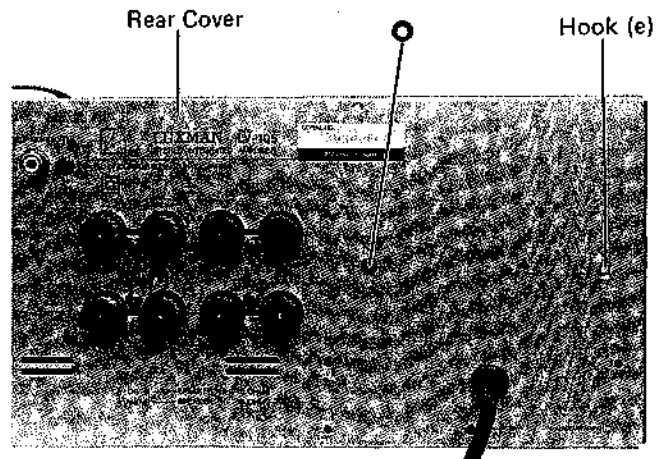


Figure 12

13. Removal of Main P.C. Board

- (1) After removal of Equalizer P.C. Board and Rear Cover, remove four screws marked "☐" as shown in Figure 5 and 13.
- (2) Disconnect all wires from the Main P.C. Board.

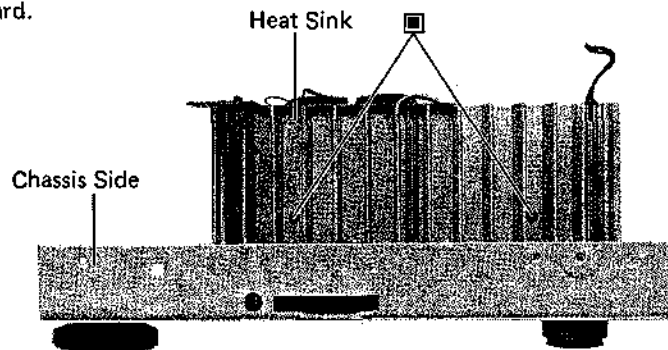
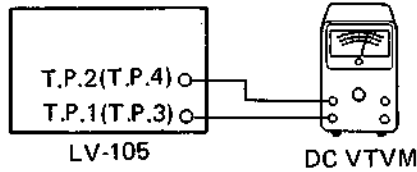


Figure 13

Adjustment Procedures

1. Connection



2. Control Settings

- | | | | |
|--------------------------|--------------------------|-----------------------------|-----------------|
| Power Switch | ON | Bass Control | Center Position |
| Volume Control | Minimum | Balance Control | Center Position |
| | (fully counterclockwise) | Pre-Heater Switch | ON |
| Treble Control | Center Position | Others | OFF |

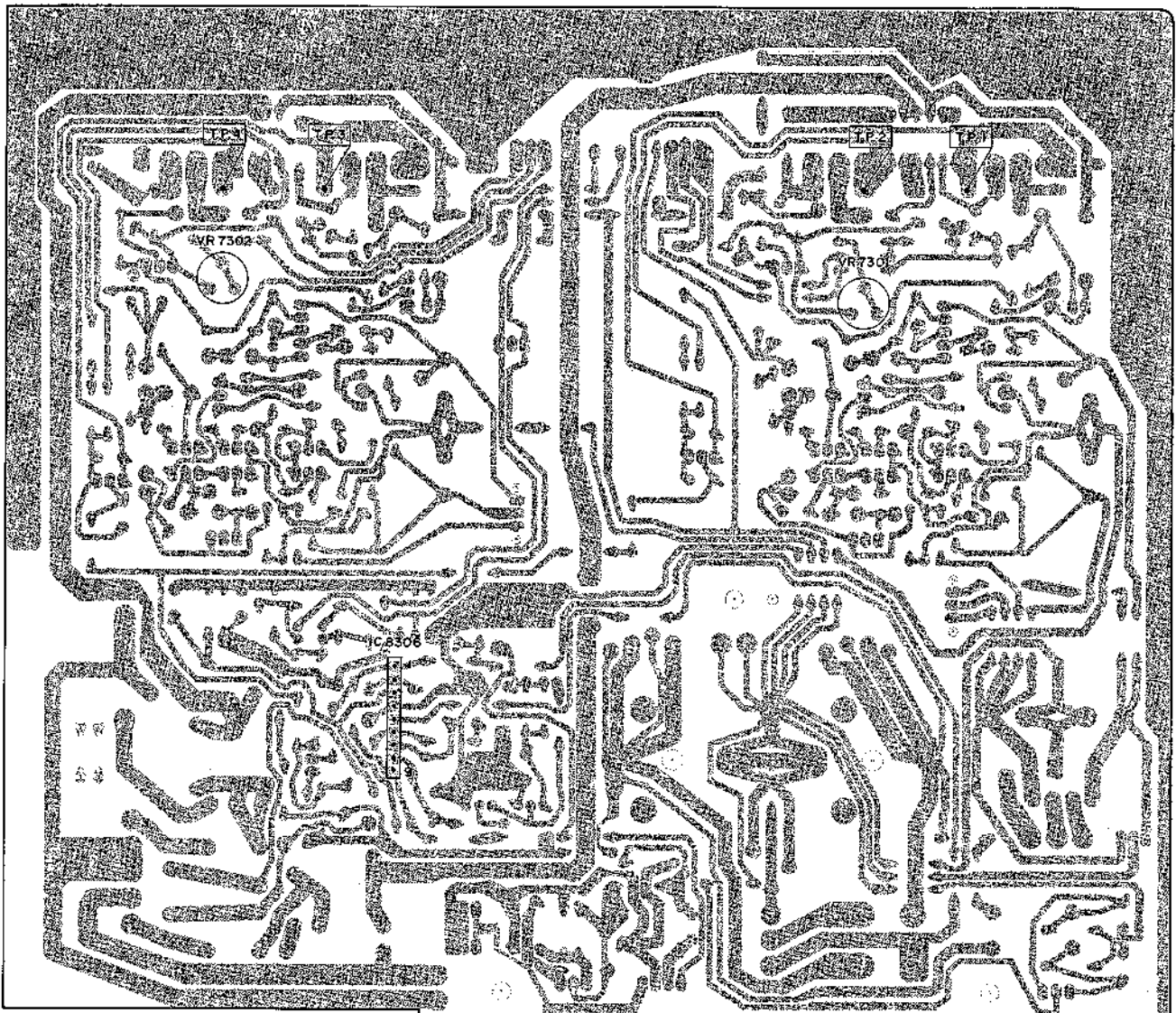
3. Adjustment Procedure

(1) Idling Adjustment

Adjust VR7301 (VR7302) until 45mV is obtained between T.P.1 (T.P.3) and T.P.2 (T.P.4).

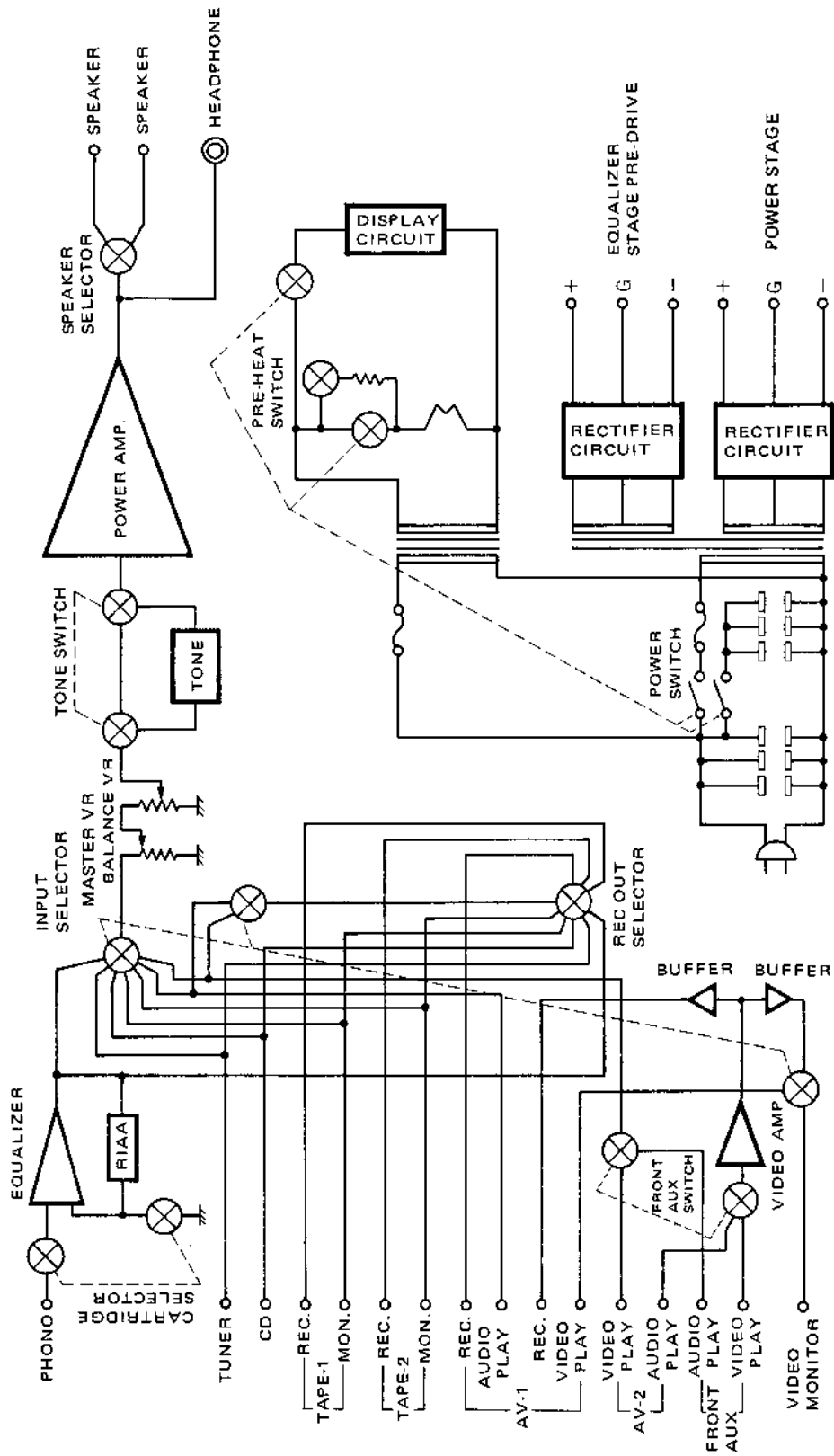
Note: This adjustment should be made approx. 30 minutes after the power on or voltage becomes sufficiently steady state.

Adjustment Locations



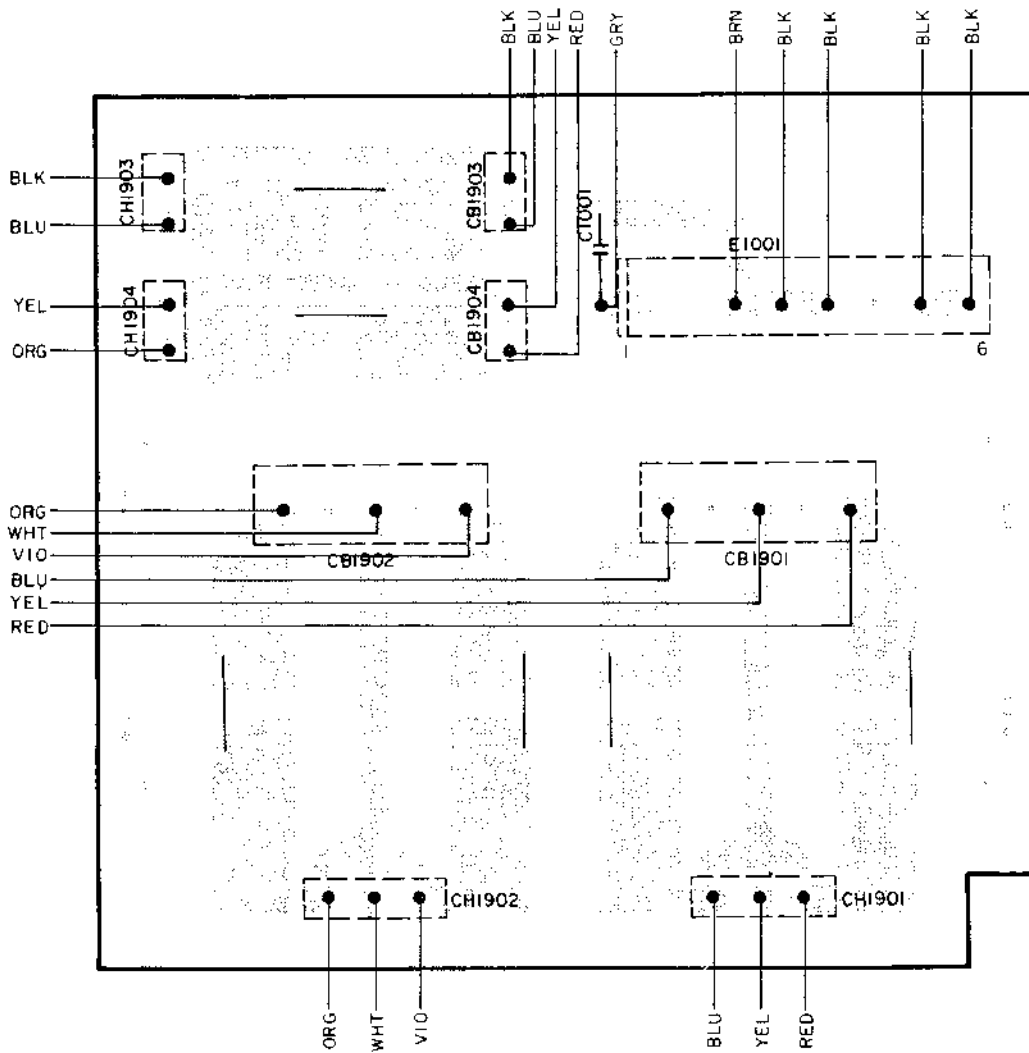
Main P.C. Board

Block Diagram



Parts Layout on P.C. Boards

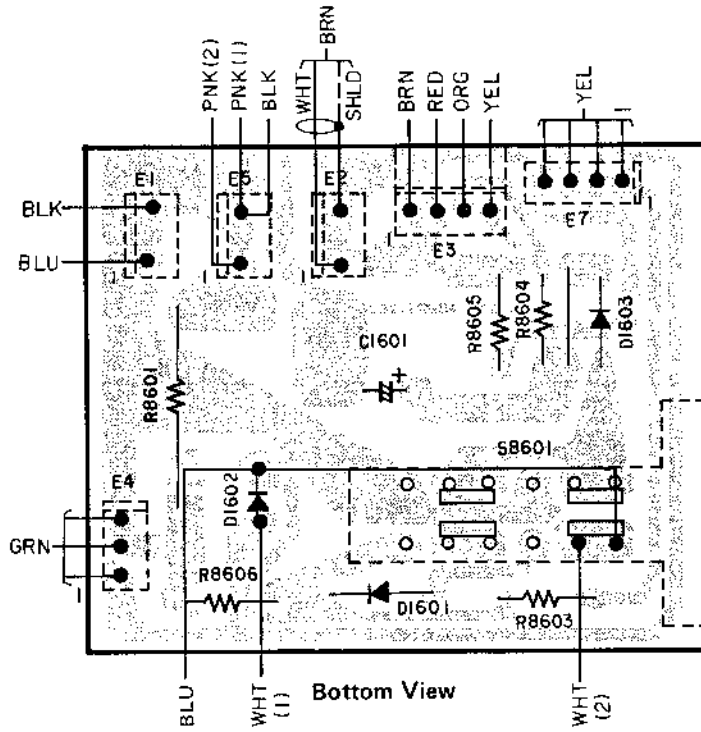
- Fuse P.C. Board (For SH Model)



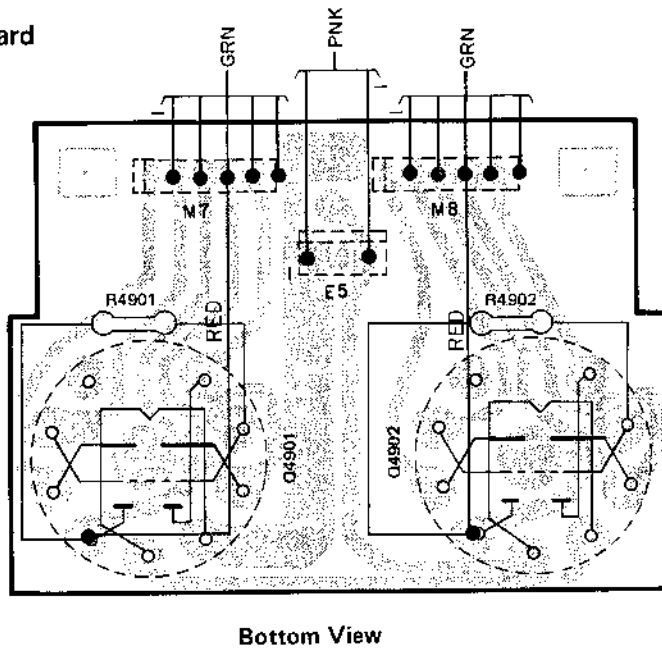
Bottom View

A B C D E F G

• Heat-up Switch P.C. Board

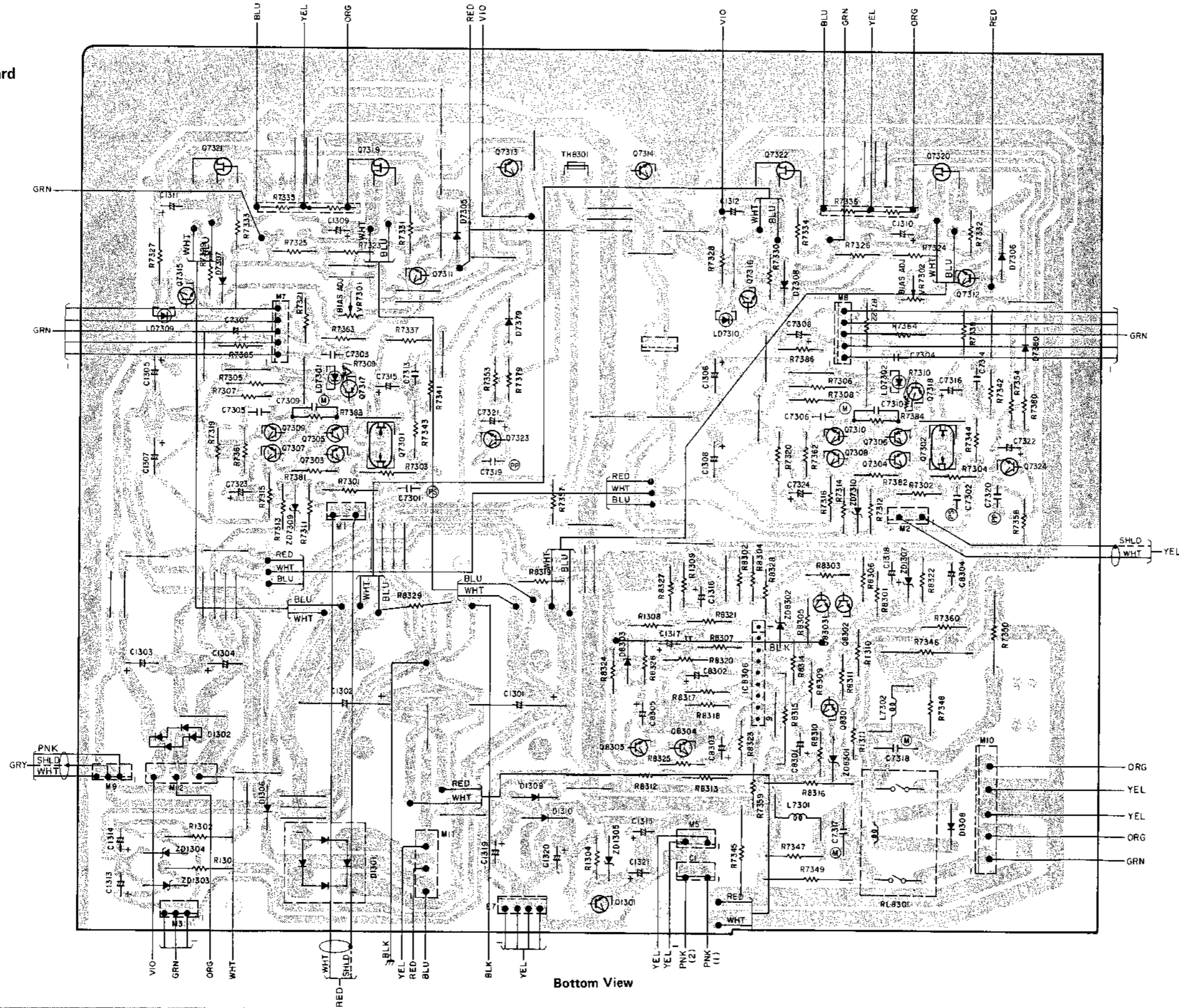


• Tube P.C. Board



A B C D E F G

• Main P.C. Board



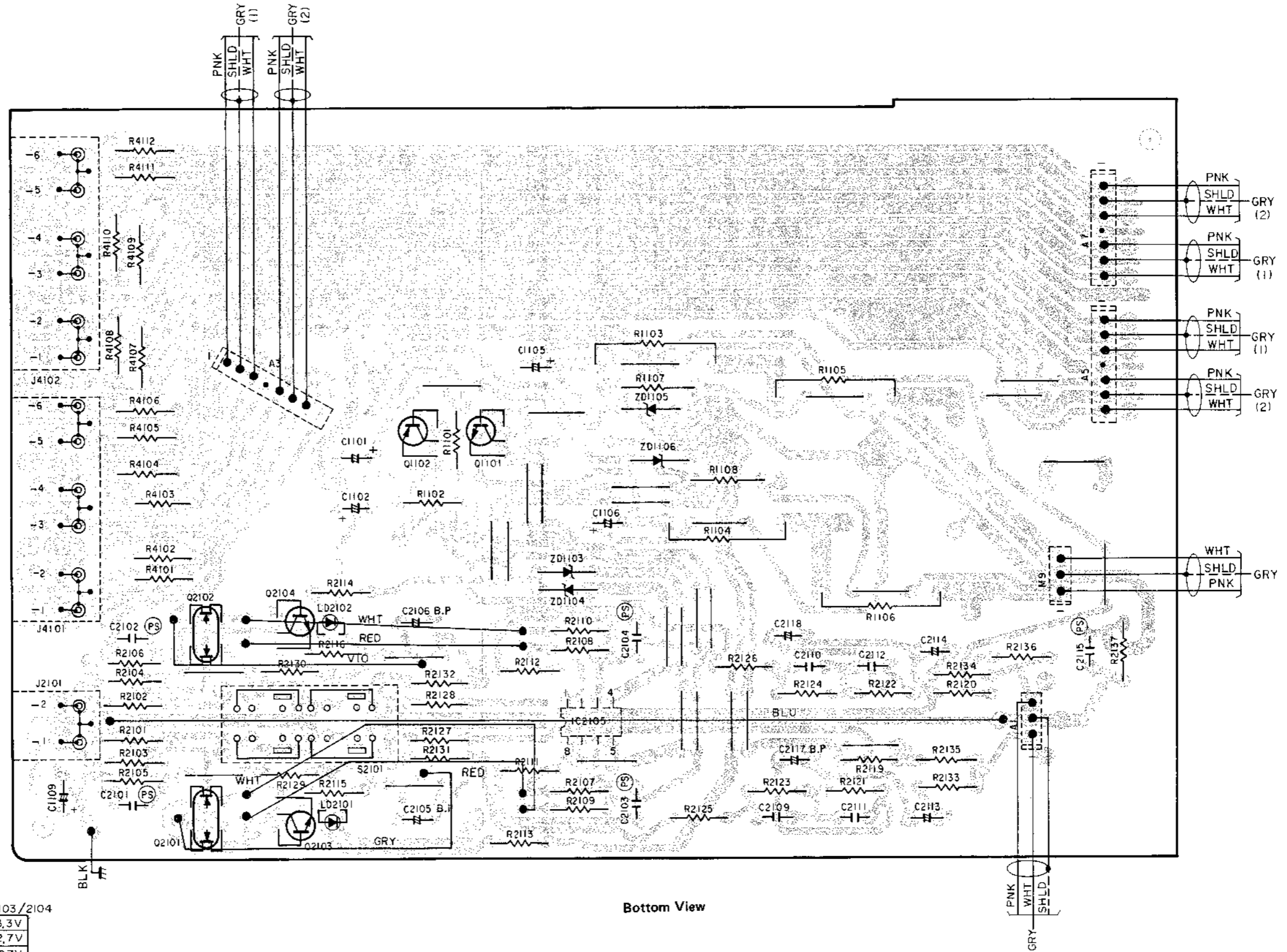
Bottom View

IC8306	1	0.75V	Q7303/7304	Q7305/7306	Q7307/7308	Q7309/7310	Q7311/7312	Q7313/7314	Q7315/7316	Q7317/7318	Q7319/7320	Q8302
	2	0V	-5.4V	-11.4V	-11.4V	-11.4V	1.4V	-1.6V	-5.1V	13.0V	0V	5.2V
	3	0V	-10V	-10V	-13V	3.2V	1.4V	-1.6V	-0.30V	52V	0V	-0.75V
	4	0V	-6.0V	-6.0V	-13.4V	-13.4V	2.0V	-1.0V	-50.4V	13.6V	0V	5.2V
	5	-0.75V										
	6	1.0V	1.4V	0V	0V	14.0V						
	7	0V	-12.0V	0V	1.4V	35.5V						
	8	1.4V	2.0V	0.6V	0V	14.6V						
	9	3.1V										

IC8303	1	IN	Q7319/7320	Q7321/7322
	2	0.3V	-0.3V	0.022V
	3	0V	0V	1.4V
	4	0V	0V	-1.6V
	5	-5.4V	-5.4V	62.0V
	6			-62.0V

1
2
3
4
5
6
7
8
9
A B C D E F G H I J K L M N O

• Equalizer P.C. Board



Bottom View

IC2105

1	0V
2	15.0V
3	15.0V
4	-20.0V
5	15.0V
6	15.0V
7	0V
8	20.0V

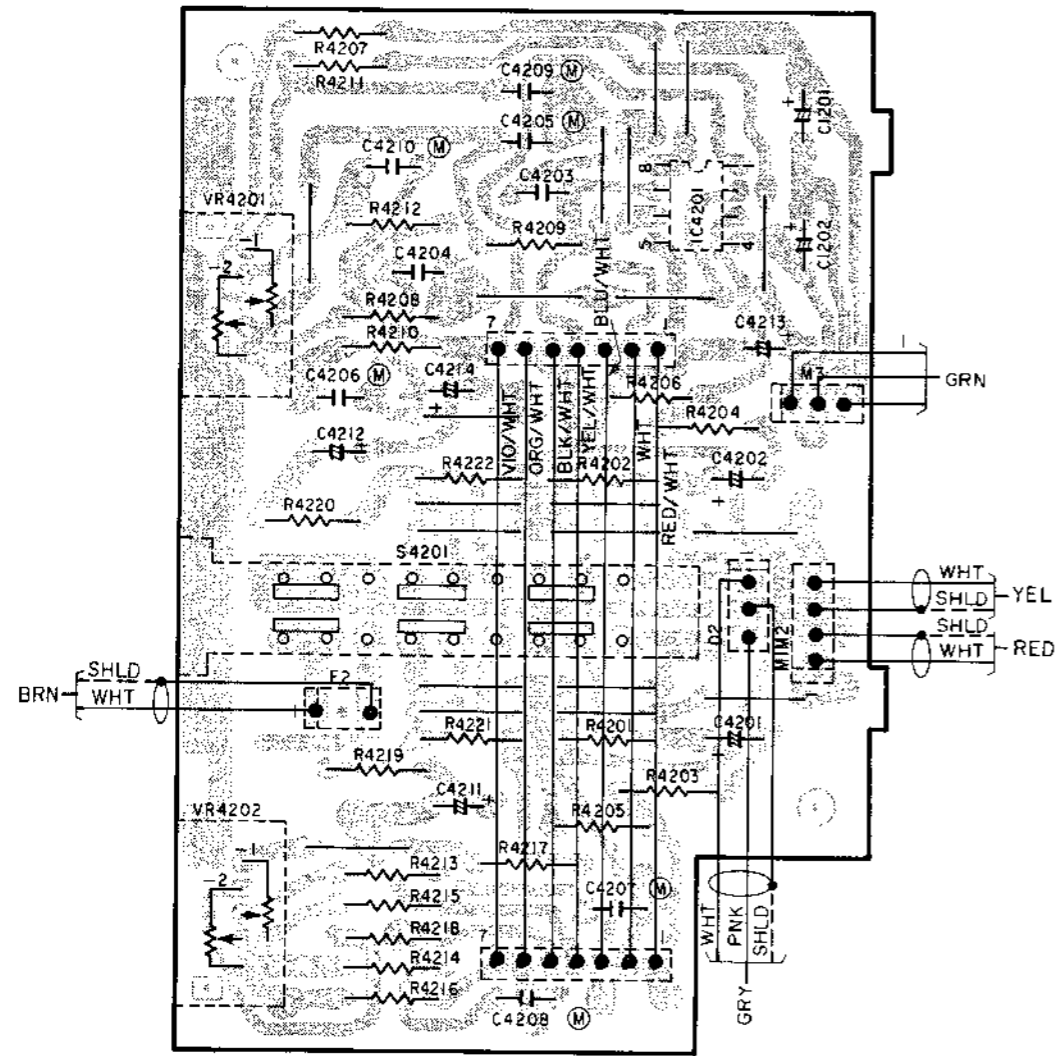
Q2101/2102

S	0.07V
G	0V
D	15.0V

Q1101 Q1102 Q2103/2104

E	24.5V	-24.5V	-23.3V
B	25.1V	-25.1V	-22.7V
C	45.0V	-45.0V	0.07V

• Tone Control P.C. Board

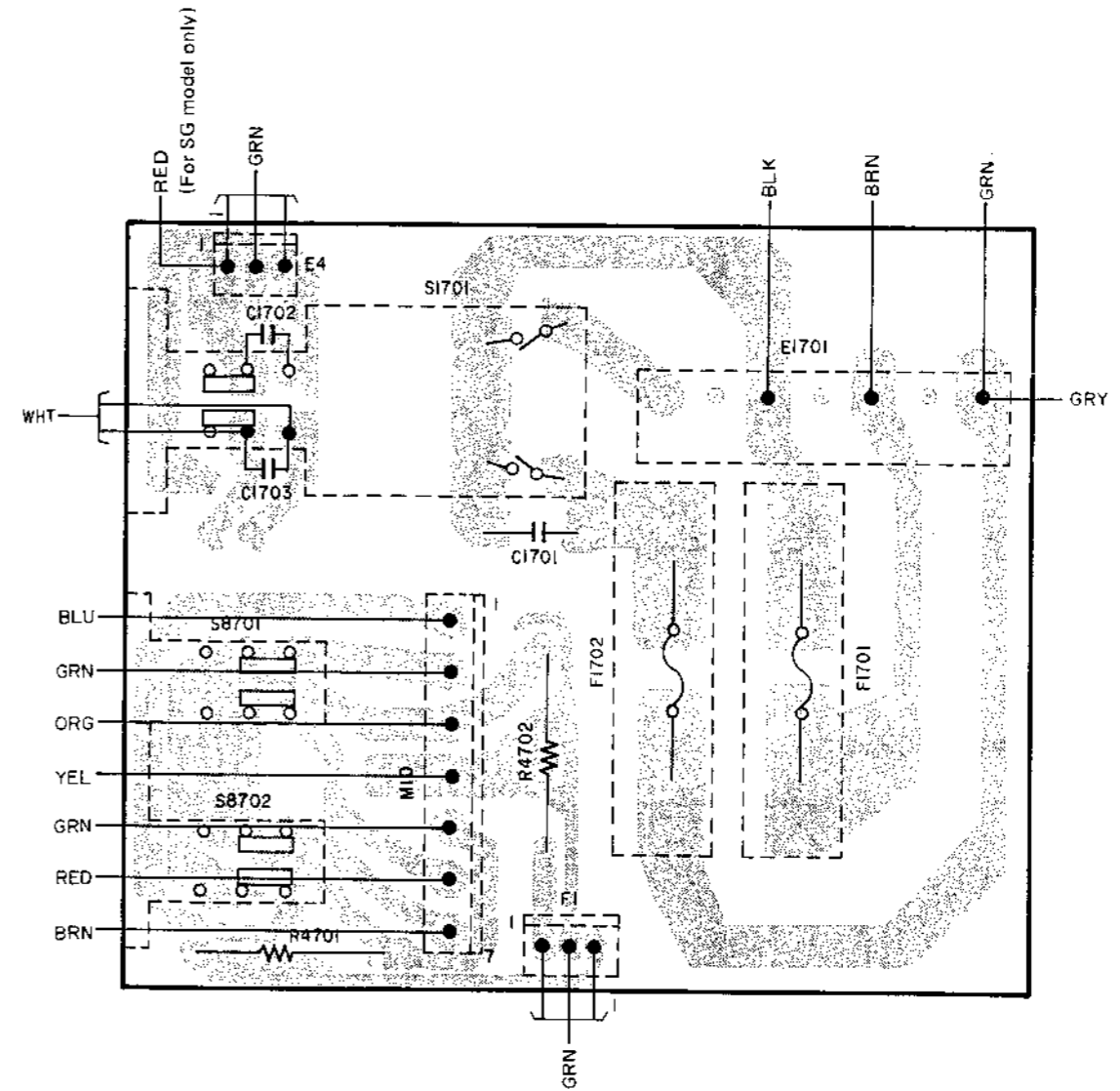


IC 4201

1	OV	5	OV
2	OV	6	OV
3	OV	7	OV
4	15V	8	15V

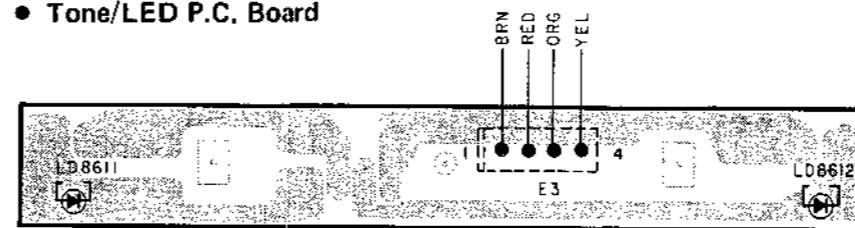
Bottom View

• Speaker Switch P.C. Board



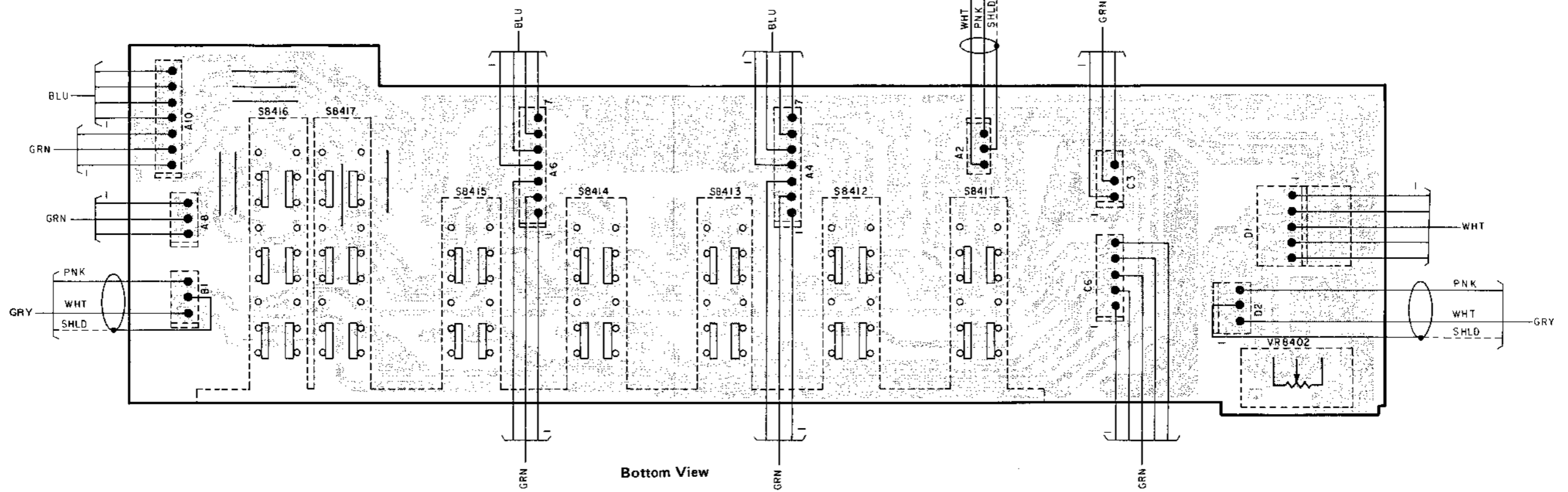
Bottom View

• Tone/LED P.C. Board

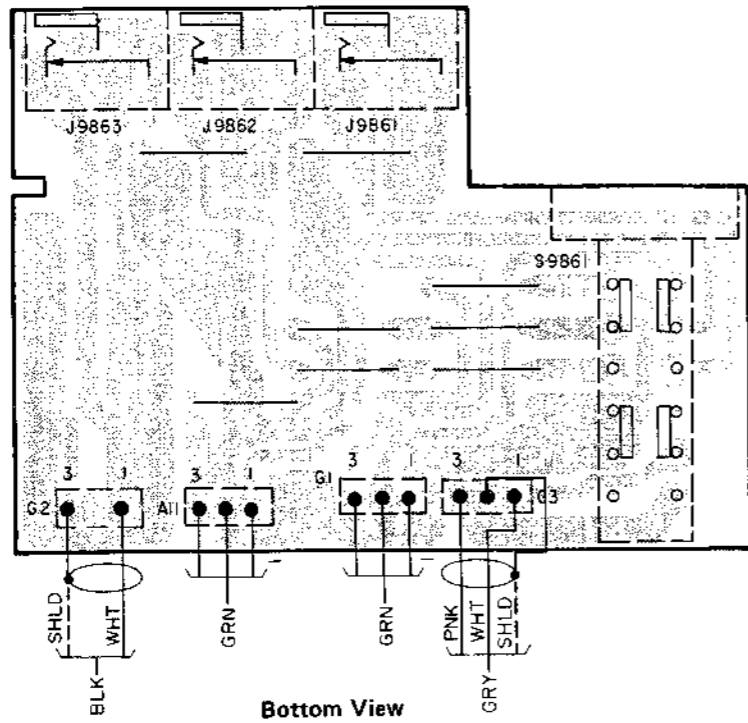


Bottom View

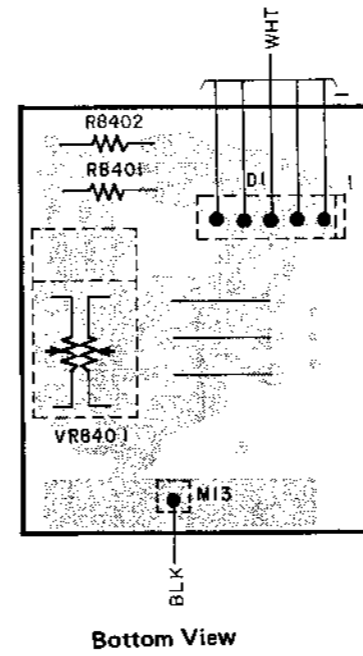
• Function P.C. Board



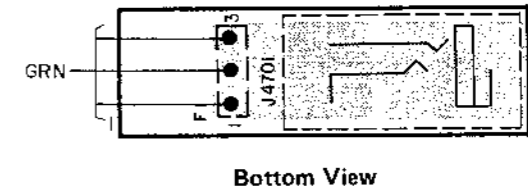
• Front/AUX P.C. Board



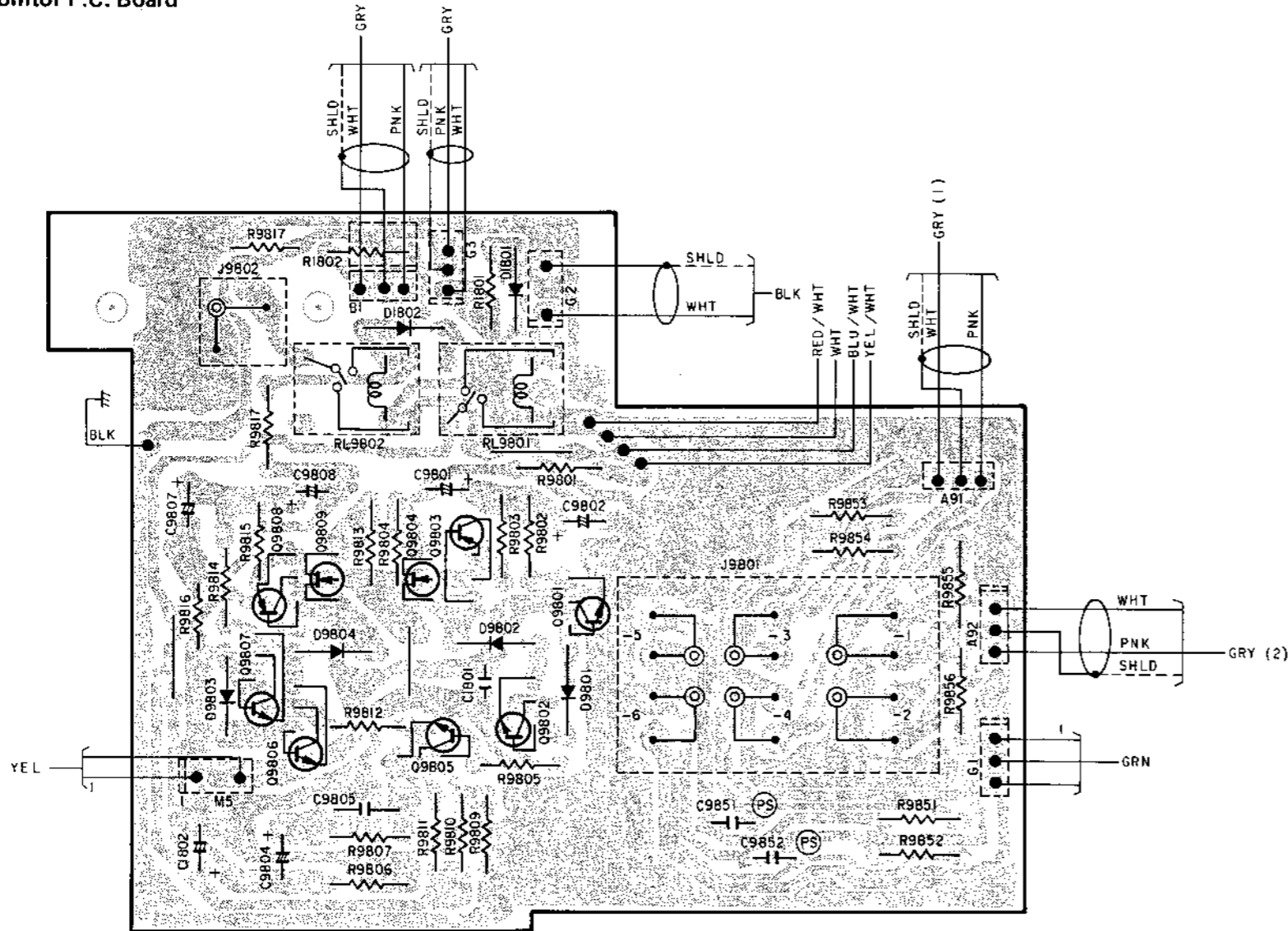
• Volume Control P.C. Board



• Headphone P.C. Board

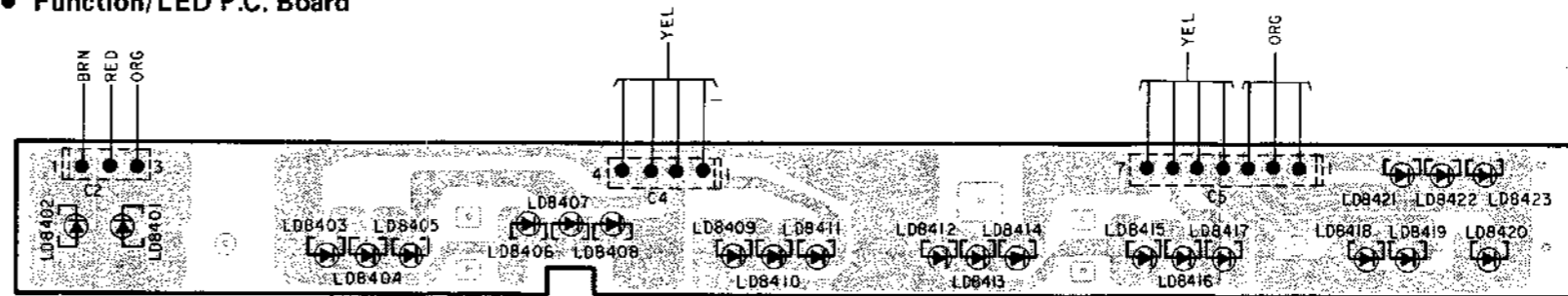


● AV Monitor P.C. Board

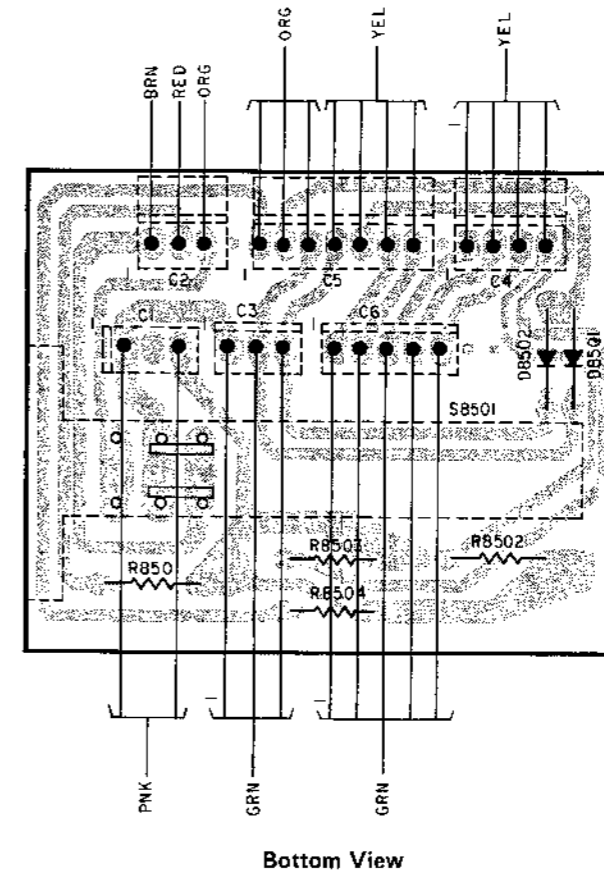


Q9801	Q9802	Q9803	Q9804			
Q9807	Q9806	Q9808	Q9805			
E	8.0V	7.4V	7.6V	1.2V	S	0.12V
B	8.6V	8.0V	7.0V	1.8V	G	0V
C	14.0V	8.6V	0V	9.0V	D	7.0V

● Function/LED P.C. Board



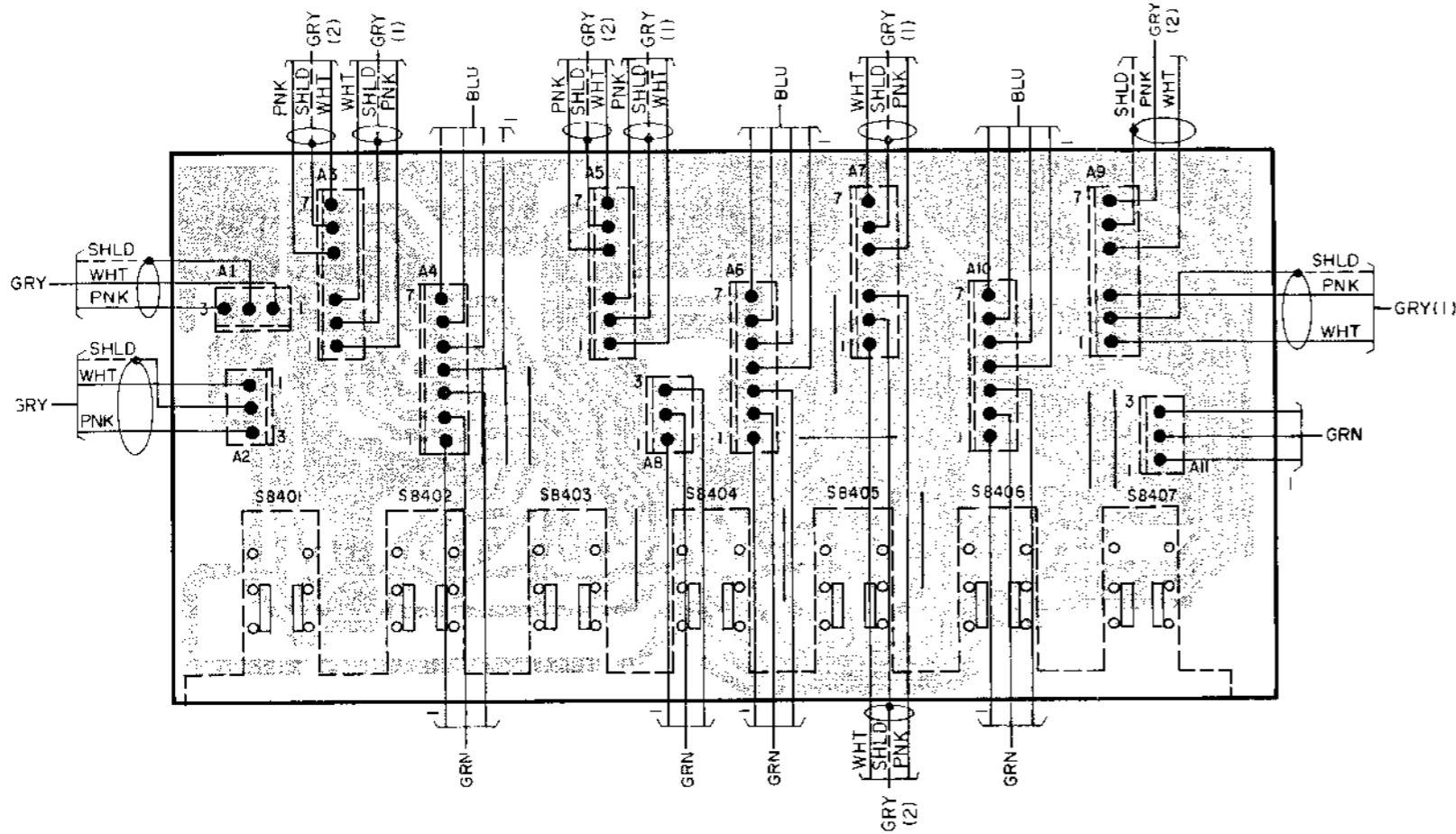
● MM/MC P.C. Board



Bottom View

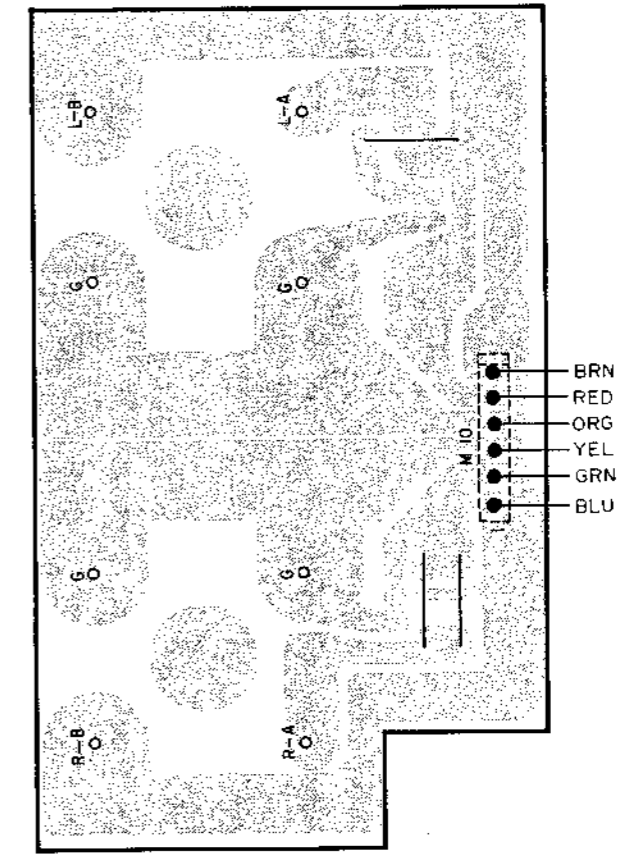
Bottom View

• REC Selector P.C. Board



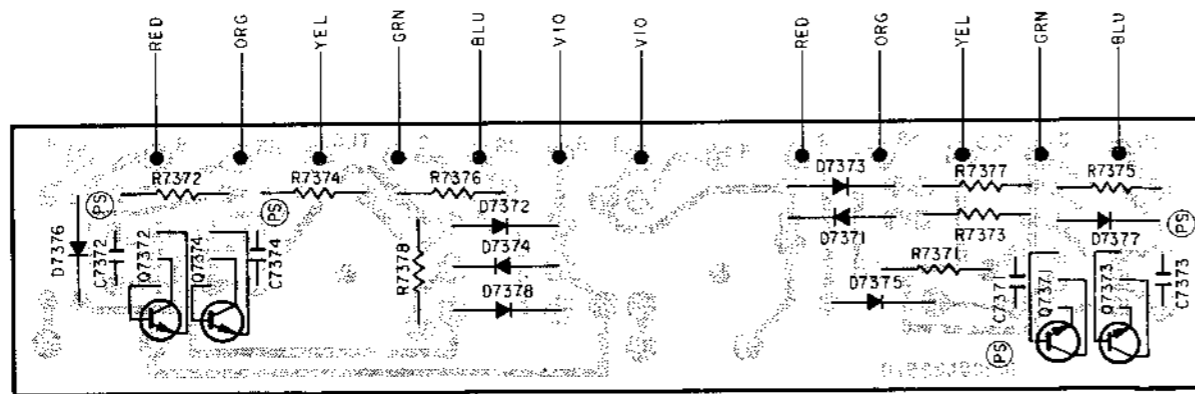
Bottom View

• Speaker Terminal P.C. Board



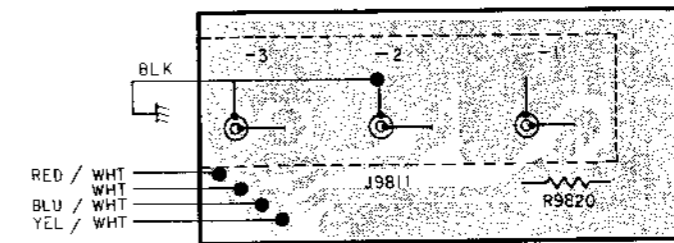
Bottom View

• Protect P.C. Board



Bottom View

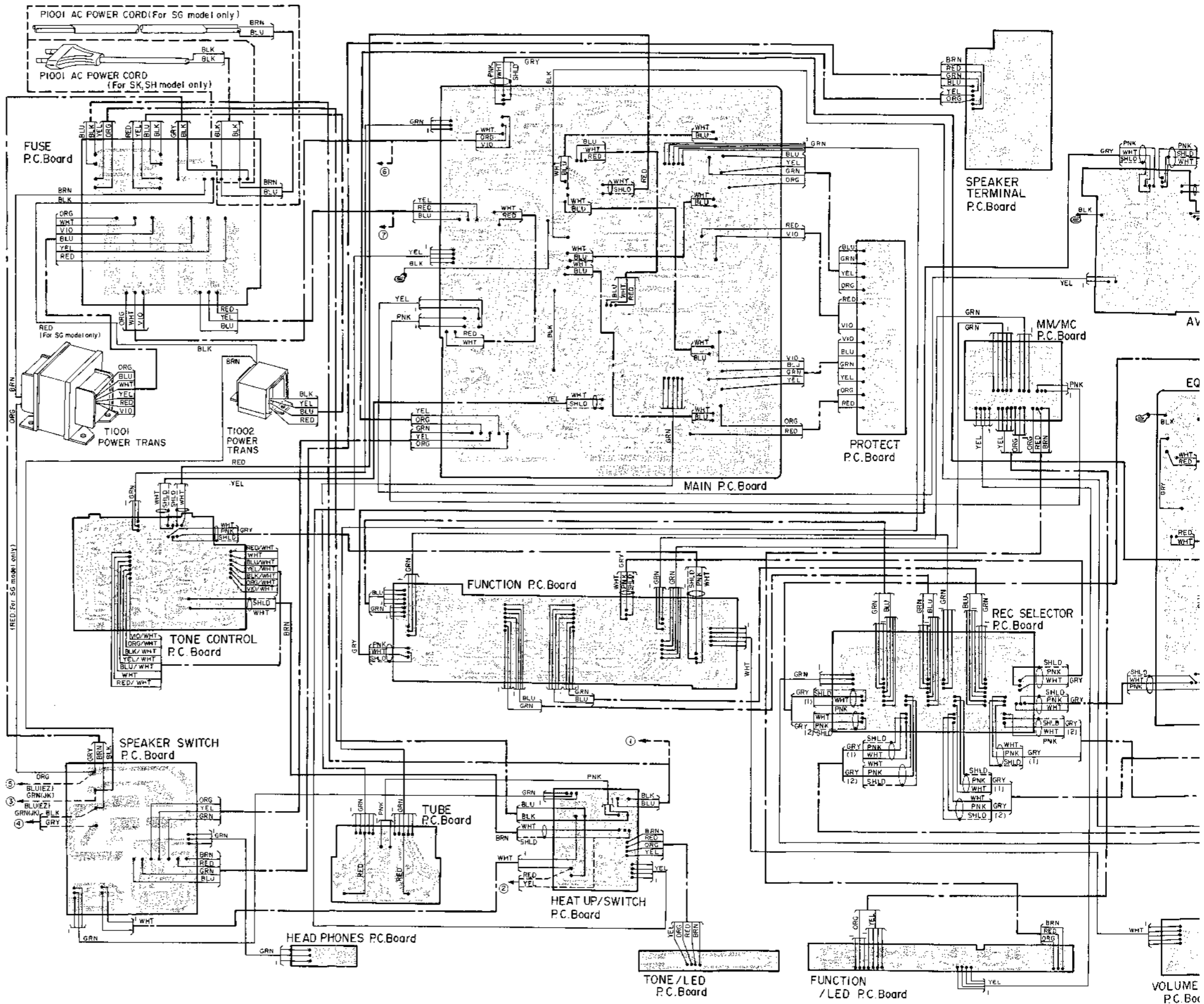
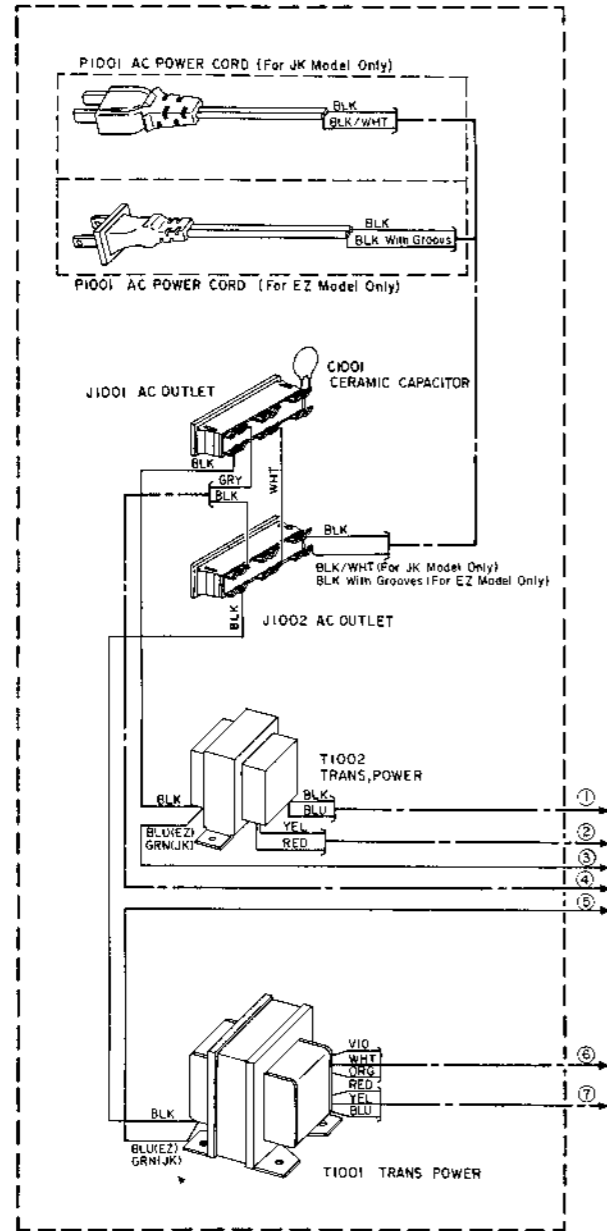
• AV Terminal P.C. Board

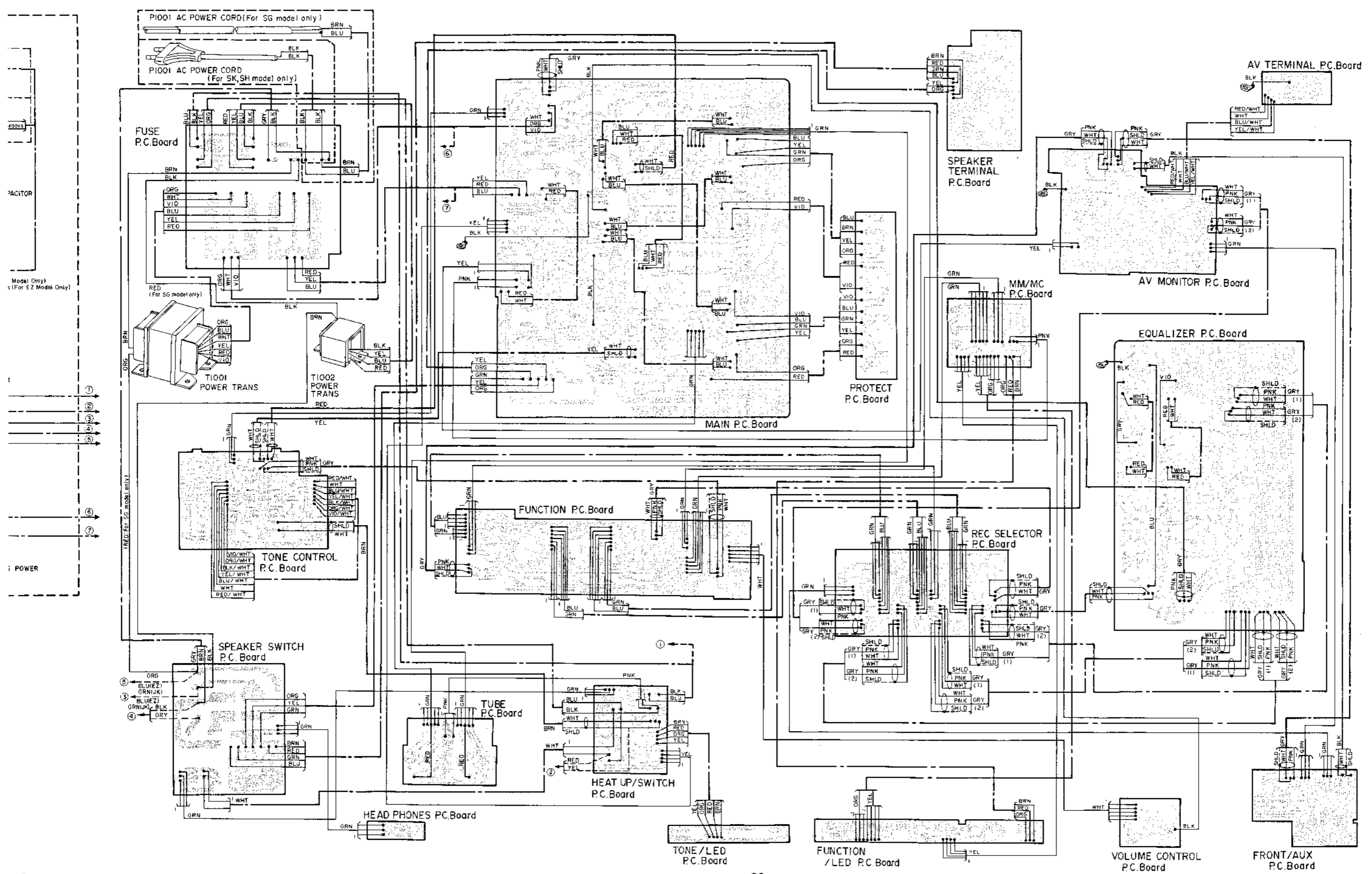


Bottom View

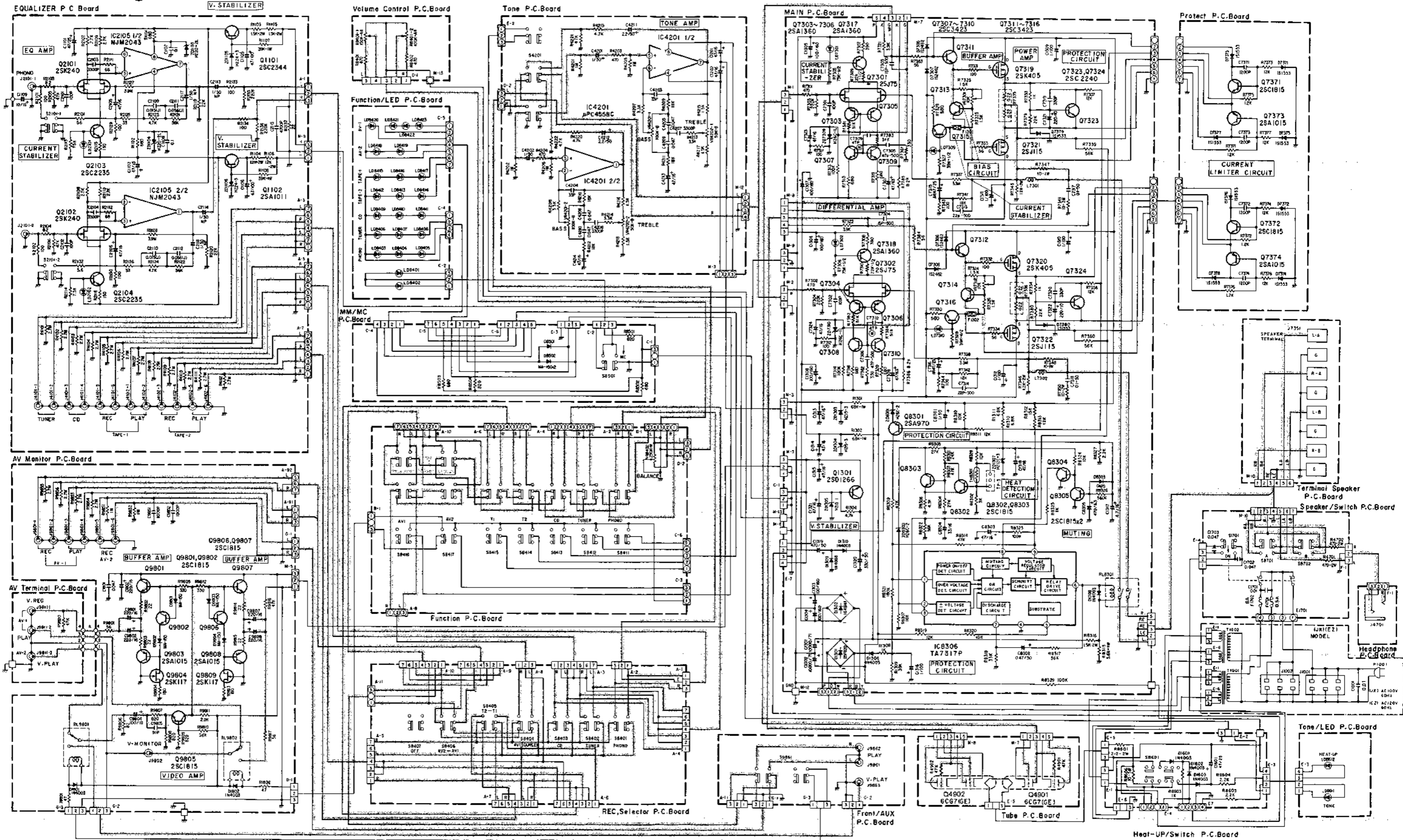
Wiring Diagram

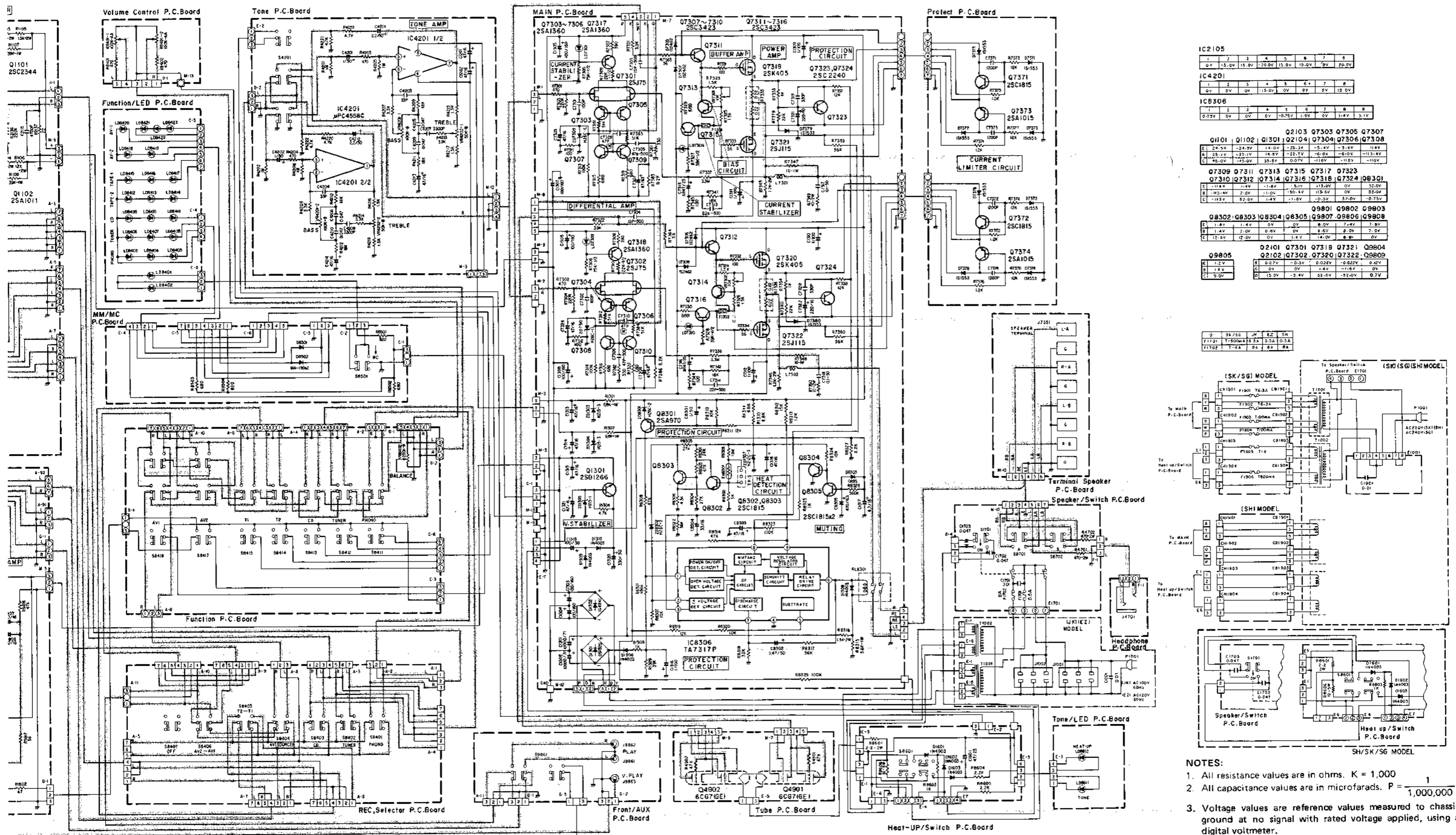
FOR EZ, JK, MODEL ONLY





Schematic Diagram





IC105

1	2	3	4	5	6	7	8
0V	15.0V	15.0V	20.0V	15.0V	15.0V	0V	20.0V

IC4201

1	2	3	4	5	6	7	8
0V	0V	0V	15.0V	0V	0V	0V	18.0V

IC8306

1	2	3	4	5	6	7	8
0.75V	0V	0V	0V	-0.75V	1.0V	0V	1.4V

Q1101 Q1102 Q1301 Q2103 Q7303 Q7305 Q7307 Q7309 Q7311 Q7313 Q7315 Q7317 Q7323 Q7310 Q7312 Q7314 Q7316 Q7318 Q7324 Q7326 Q7308

E	24.5V	-24.5V	14.0V	-23.5V	-5.4V	-3.4V	11.8V
F	28.0V	-23.0V	14.0V	-22.0V	-6.0V	-6.0V	-11.3V
G	45.0V	-45.0V	35.5V	0.0V	-11.0V	-11.0V	-11.0V

Q7309 Q7311 Q7313 Q7315 Q7317 Q7323 Q7310 Q7312 Q7314 Q7316 Q7318 Q7324 Q7326 Q7308

E	12.5V	2.0V	-1.0V	-10.0V	13.6V	0V	23.0V
F	-13.0V	52.0V	-14V	-11.6V	-0.3V	53.0V	-0.75V

Q8302 Q8303 Q8304 Q8305 Q8801 Q8802 Q8803 Q8804 Q8805 Q8806 Q8807 Q8808

E	1.4V	1.4V	0V	0V	6.0V	7.4V	7.0V
F	1.4V	2.0V	0.6V	0V	8.6V	8.0V	7.0V
G	12.8V	12.0V	0V	1.4V	14.0V	8.0V	0V

Q2101 Q7301 Q7319 Q7321 Q8804 Q2102 Q7302 Q7320 Q7322 Q8809

E	1.2V	0.0V	0.022V	0.022V	0.022V	0.02V	0.02V
F	1.8V	0V	4.4V	-1.6V	-0.2V	0V	0V
G	9.0V	0V	0V	-5.0V	32.0V	-92.0V	0.7V

Q9805

E	1.2V	0.0V	0.022V	0.022V	0.022V	0.02V	0.02V
F	1.8V	0V	4.4V	-1.6V	-0.2V	0V	0V
G	9.0V	0V	0V	-5.0V	32.0V	-92.0V	0.7V

SK/SG MODEL

2	3K/50	JK	EZ	SN
F1701	T-500MA	3A	0.5A	0.5A
F1702	T-2A	2A	2A	2A

SHI MODEL

CH1901	CB1901	CH1902	CB1902	CH1903	CB1903	CH1904	CB1904
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SH/SK/SG MODEL

CH1901	CB1901	CH1902	CB1902	CH1903	CB1903	CH1904	CB1904
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NOTES:

- All resistance values are in ohms. K = 1,000
- All capacitance values are in microfarads. P = 1,000,000
- Voltage values are reference values measured to chassis ground at no signal with rated voltage applied, using a digital voltmeter.

Electrical Parts List

Resistors: Carbon resistors that are less than 1/4 watts are not entered on the parts list, please confirm them by schematic diagram.
 uF = microfarads, pF = picofarads

Symbol No.	Part No.	Description
Equalizer P.C. Board		
IC's		
IC2105	51T52153F01	NJM2043D-D
Transistors		
Q1101 or Q1102 or Q2101 or	48T64240F01 48T64240F02 48T47145F01 48T47145F02 48T60558F01 48T60558F02	2SC2344-E 2SC2344-D 2SA1011-D 2SA1011-E FET, 2SK240-BL FET, 2SK240-V
Q2102 or Q2103 Q2104	48T60558F01 48T60558F02 48T51120F01 48T51120F01	FET, 2SK240-BL FET, 2SK240-V 2SC2235-Y 2SC2235-Y
Diodes		
LD2101 LD2102 ZD1103 ZD1104 ZD1105 or ZD1106 or	48T60947F06 48T60947F06 48T52741F56 48T52741F56 48T52739F93 48T56372F77 48T52739F93 48T56372F77	LED, SLH-34VR5F (Red) LED, SLH-S4VR5F (Red) Zener, HZ20-2L Zener, HZ20-2L Zener, HZ24-3 Zener, RD27E-B1 Zener, HZ24-3 Zener, RD27E-B1
Jacks/Switch		
J2101 J4101 J4102 S2101	09T67403F01 09T67404F01 09T67404F01 40T57372F01	Plate Phone (Phone) Plate Phone (Tuner, CD) Plate Phone (Tape 1, Tape 2) Switch, Slide SSR2435 (Cartridge)
Capacitors		
C1101 C1102 C1105 C1106 C1107	23S40657F20 23S40657F20 23S41198U32 23S41198U32 08T57851F13	Electrolytic, 47 μ F/25V Electrolytic, 47 μ F/25V Electrolytic, 47 μ F/100V Electrolytic, 47 μ F/100V T.F. 0.1 μ F

Symbol No.	Part No.	Description
C1108 C1109 C2101 C2102 C2103 C2104	08T57851F13 23T42477F06 08T67344F01 08T67344F01 08T67344F37 08T67344F37	T.F. 0.1 μ F Electrolytic, 10 μ F/16V Polystyrol, 100 pF Polystyrol, 100 pF Polystyrol, 3300 pF Polystyrol, 3300 pF
C2105 C2106 C2109 C2110 C2111	23T61177F02 23T61177F02 08T68632F15 08T68632F15 08T68632F22	Electrolytic, 47 μ F/16V Electrolytic, 47 μ F/16V Polyester, 0.015 μ F/50V Polyester, 0.015 μ F/50V Polyester, 0.056 μ F/50V
C2112 C2113 C2114 C2115 C2117	08T68632F22 23T61177F08 23T61177F08 08T67344F41 23T61177F08	Polyester, 0.056 μ F/50V Electrolytic, (BP) 1 μ F/50V Electrolytic, (BP) 1 μ F/50V Polystyrol, 4700 pF Electrolytic, (BP) 1 μ F/50V
C2118	23T61177F08	Electrolytic, (BP) 1 μ F/50V
Resistors		
R1103 or R1104 or R1105 or	06T00007L69 06T55179F69 06T00007L67 06T55179F67 06T00007L69 06T55179F69	Metal Film, 1.5K ohm 2W Metal Film, 1.5K ohm 2W Metal Film, 1.2K ohm 2W Metal Film, 1.2K ohm 2W Metal Film, 1.5K ohm 2W Metal Film, 1.5K ohm 2W
R1106 or R1107 or R1108 or	06T00007L67 06T55179F67 06T00006L04 06T55178F04 06T00006L04 06T55178F04	Metal Film, 1.2K ohm 2W Metal Film, 1.2K ohm 2W Metal Film, 39K ohm 1W Metal Film, 39K ohm 1W Metal Film, 39K ohm 1W Metal Film, 39K ohm 1W
R2101 R2102 R2103 R2104 R2105	06T00013L41 06T00013L41 06T00013L15 06T00013L15 06T00014L06	Carbon Film, 100 ohm 1/3W Carbon Film, 100 ohm 1/3W Carbon Film, 8.2 ohm 1/3W Carbon Film, 8.2 ohm 1/3W Carbon Film, 47K ohm 1/3W
R2106 R2129 R2130 R2131 R2132	06T00014L06 06T00013L41 06T00013L41 06T00013L11 06T00013L11	Carbon Film, 47K ohm 1/3W Carbon Film, 100 ohm 1/3W Carbon Film, 100 ohm 1/3W Carbon Film, 5.6 ohm 1/3W Carbon Film, 5.6 ohm 1/3W
R4103 R4104	06T00014L48 06T00014L48	Carbon Film, 2.7 ohm 1/3W Carbon Film, 2.7 ohm 1/3W

Symbol No.	Part No.	Description
Heat-up/Switch P.C. Board		
Diodes/Switch		
D1601	48S40477U01	1N4003
D1602	48S40477U01	1N4003
D1603	48S40477U01	1N4003
S8601	40T67389F01	Switch, Push, SUL121S (Pre-heating)
Capacitors/Resistors		
C1601	23S40657F20	Electrolytic, 47 μ F/25V
R8601	06T0007L01	Res., Metal Film, 2.2 ohm 2W
又は	06T55179F01	Res., Metal Film, 2.2 ohm 2W
R8606	06T60132F01	Res., Cement 10 ohm 5W
Speaker/Switch P.C. Board		
Fuses/Switches		
F1701 ●	65T55050F05	Fuse, MF60NR 0.5A-125V
F1701 ○	65T52486F13	Fuse, MF61NM 0.5A-125V
F1701 ■	65T42077U13	Fuse, T-500mA
F1701 ▲	65T42077U13	Fuse, T-500mA
F1701 ★	65T55050F05	Fuse, MF60NR 0.5A-125V
F1702 ●	65T55050F19	Fuse, NR60 8A-125V
F1702 ○	65T52486F41	Fuse, CS61M 6A-125V
F1702 ■	65T42077U22	Fuse, T-4A
F1702 ▲	65T42077U22	Fuse, T-4A
F1702 ★	65T55050F19	Fuse, MF60NR 8A-125V
S1701 ●	40T61963F02	Switch, Push (Power)
S1701 ○	40T61963F02	Switch, Push SDU4P
S1701 ■	40T68579F01	Switch, Push SDU3P
S1701 ▲	40T68579F01	Switch, Push SDU3P
S1701 ★	40T68579F01	Switch, Push SDU3P
S8701	40T67388F01	Switch, Push (Speaker A)
S8702	40T67388F01	Switch, Push (Speaker B)
Capacitors/Resistors		
C1701	08T57437F09	Ceramic, 0.01 μ F
C1702	21C45322G33	Ceramic, 0.047 μ F
C1703	21C45322G33	Ceramic, 0.047 μ F
R4701	06T55179F57	Res., Metal Film, 470 ohm 2W
or	06T00007L57	Res., Metal Film, 470 ohm 2W
R4702	06T55179F57	Res., Metal Film, 470 ohm 2W
or	06T00007L57	Res., Metal Film, 470 ohm 2W

Symbol No.	Part No.	Description
Tone P.C. Board		
IC/Switch		
IC4201	51S43471U02	μ PC4558C
S4201	40T61986F01	Switch, Push 122A (Tone)
Capacitors/Volumes		
C1201	23S40657F13	Electrolytic, 47 μ F/16V
C1202	23S40657F13	Electrolytic, 47 μ F/16V
C4201	23T42478F24	Electrolytic, 1 μ F/50V
C4202	23T42478F24	Electrolytic, 1 μ F/50V
C4203	21S40655F17	Ceramic, 33 pF
C4204	21S40655F17	Ceramic, 33 pF
C4205	08S40656F21	Mylar, 0.047 μ F
C4206	08S40656F21	Mylar, 0.047 μ F
C4207	08S40656F07	Mylar, 3300 pF
C4208	08S40656F07	Mylar, 3300 pF
C4209	08S40656F21	Mylar, 0.047 μ F
C4210	08S40656F21	Mylar, 0.047 μ F
C4211	23T58711F31	Electrolytic, 2.2 μ F/50V
C4212	23T58711F31	Electrolytic, 2.2 μ F/50V
C4213	23T42477F39	Electrolytic, 4.7 μ F/16V
C4214	23T42477F39	Electrolytic, 4.7 μ F/16V
VR4201	18T67394F01	Volume, K122G 100K ohm (Bass)
VR4202	18T67395F01	Volume, K122G 50K ohm (Treble)
Main P.C. Board		
IC's		
IC8306	51T67437F01	TA7317P
Transistors		
Q1301	48T56031F01	2SD1266-P, Q
Q7301	48T62284F01	FET, 2SJ75-BL
Q7302	48T62284F01	FET, 2SJ75-BL
Q7303	48T64375F01	2SA1360-O, Y
Q7304	48T64375F01	2SA1360-O, Y

Note: ● : For JK model only, ○ : For EZ model only, ■ : For SK model only,
▲ : For SG model only, ★ : For SH model only, Others: Common

Symbol No.	Part No.	Description
Q7305	48T64375F01	2SA1360-O, Y
Q7306	48T64375F01	2SA1360-O, Y
Q7307	48T64376F01	2SC3423-O, Y
Q7308	48T64376F01	2SC3423-O, Y
Q7309	48T64376F01	2SC3423-O, Y
Q7310	48T64376F01	2SC3423-O, Y
Q7311	48T64376F01	2SC3423-O, Y
Q7312	48T64376F01	2SC3423-O, Y
Q7313	48T64376F01	2SC3423-O, Y
Q7314	48T64376F01	2SC3423-O, Y
Q7315	48T64376F01	2SC3423-O, Y
Q7316	48T64376F01	2SC3423-O, Y
Q7317	48T64375F01	2SA1360-O, Y
Q7318	48T64375F01	2SA1360-O, Y
Q7319	48T67399F01	FET, 2SK405-Y
Q7320	48T67399F01	FET, 2SK405-Y
Q7321	48T67398F01	FET, 2SJ115-Y
Q7322	48T67398F01	FET, 2SJ115-Y
Q7323	48T53301F01	2SC2240-BL
Q7324	48T53301F01	2SC2240-BL
Q8301	48T52545F03	2SA970-BL, GR
Q8302	48S43525F05	2SC1815-Y, GR
Q8303	48T43525F05	2SC1815-Y, GR
Q8304	48S43525F05	2SC1815-Y, GR
Q8305	48S43525F05	2SC1815-Y, GR
Relay/Thermister		
RL8301	80T58612F01	Relay G2Z-222P-US-24
TH8301	48T67436F01	Thermister NB320UASZ
Coils		
L7301	24T65716F02	Choke, 1.1 μ H
L7302	24T65716F02	Choke, 1.1 μ H
Diodes/LEDs		
D1301	48T67435F01	Bridge, D5FB20
D1302	48T61415F03	Bridge, 1G4B41
D1306	48S40477U01	1N4003
D1308	48S40477U01	1N4003
D1309	48S40477U01	1N4003

Symbol No.	Part No.	Description
D1310	48S40477U01	1N4003
D7305	48T52198F01	1S2462
or	48T52198F02	1S2463
D7306	48T52198F01	1S2462
or	48T52198F02	1S2463
D7307	48T52198F01	1S2462
D7308	48T52198F01	1S2462
D7379	48T51117F01	1S1553
D7380	48T51117F01	1S1553
D8303	48T43982F01	0A95
ZD1303	48T52739F78	Zener, HZ15-3
or	48T56372F59	Zener, RD16E-B1
ZD1304	48T52739F78	Zener, HZ15-3
or	48T56372F59	Zener, RD16E-B1
ZD1305	48T52739F76	Zener, HZ15E-1
or	48T56372F57	Zener, RD15-B2
ZD1307	48T52740F09	Zener, HZ12C-3
or	48T56372F57	Zener, RD15E-B2
ZD7309	48T52741F07	Zener, HZ6C-1L
ZD7310	48T52741F07	Zener, HZ6C-1L
ZD8301	48T52739F41	Zener, HZ6C-2
or	48T56372F29	Zener, RD6.2E-B2
ZD8302	48T52739F41	Zener, HZ6C-2
or	48T56372F29	Zener, RD6.2E-B2
LD7301	48T60947F06	LED, SLH-34VR5F (Red)
LD7302	40T60947F06	LED, SLH-34VR5F (Red)
LD7309	40T60947F06	LED, SLH-34VR5F (Red)
LD7310	48T60947F06	LED, SLH-34VR5F (Red)
Capacitors		
C1301	23T67402F01	Electrolytic, 10000 μ F/71V
C1302	23T67402F01	Electrolytic, 10000 μ F/71V
C1303	23T67457F07	Electrolytic, 100 μ F/160V
C1304	23T67457F07	Electrolytic, 100 μ F/160V
C1305	23T67457F07	Electrolytic, 100 μ F/160V
C1306	23T67457F07	Electrolytic, 100 μ F/160V
C1307	23T67457F07	Electrolytic, 100 μ F/160V
C1308	23T67457F07	Electrolytic, 100 μ F/160V
C1309	23S40657F45	Electrolytic, 1 μ F/100V
C1310	23S40657F45	Electrolytic, 1 μ F/100V

Symbol No.	Part No.	Description
C1311	23S40657F45	Electrolytic, 1 μ F/100V
C1312	23S40657F45	Electrolytic, 1 μ F/100V
C1313	23S40657F13	Electrolytic, 47 μ F/16V
C1314	23S40657F13	Electrolytic, 47 μ F/16V
C1315	23S40657F13	Electrolytic, 47 μ F/16V
C1316	23S40657F45	Electrolytic, 1 μ F/100V
C1317	23S41059P18	Tantalum, 4.7 μ F/16V
C1318	23S40657F13	Electrolytic, 47 μ F/16V
C1319	23T68328F63	Electrolytic, 470 μ F/50V
C1320	23S41198U51	Electrolytic, 330 μ F/50V
C1321	23S40657F13	Electrolytic, 47 μ F/16V
C7301	08T67344F01	Polystyrol, 100 pF
C7302	08T67344F01	Polystyrol, 100 pF
C7303	08T61642F08	Mica, 15pF/500V
C7304	08T61642F08	Mica, 15pF/500V
C7305	08T61642F20	Mica, 47 pF/500V
C7306	08T61642F20	Mica, 47 pF/500V
C7307	23S41198U31	Electrolytic, 47 μ F/63V
C7308	23S41198U31	Electrolytic, 47 μ F/63V
C7309	08T61642F20	Mylar, 47 pF
C7310	08T61642F20	Mylar, 47 pF
C7313	08T61642F12	Mica, 22 pF/500V
C7314	08T61642F12	Mica, 22 pF/500V
C7315	23T61177F03	Electrolytic, 47 μ F/25V
C7316	23T61177F03	Electrolytic, 47 μ F/25V
C7317	08T68632F25	Polyester, 0.1 μ F/50V
C7318	08T68632F25	Polyester, 0.1 μ F/50V
C7319	08T52448F01	Polypropylene, 330 pF
C7320	08T52448F01	Polypropylene, 330 pF
C7321	23S40657F09	Electrolytic, 220 μ F/10V
C7322	23S40657F09	Electrolytic, 220 μ F/10V
C7323	23S40657F20	Electrolytic, 47 μ F/25V
C7324	23S40657F20	Electrolytic, 47 μ F/25V
C8301	23S40657F28	Electrolytic, 1 μ F/50V
C8302	23S40657F27	Electrolytic, 0.47 μ F/50V
C8303	23S40657F13	Electrolytic, 47 μ F/16V
C8304	23T42477F38	Electrolytic, (BP) 33 μ F/16V
C8305	23S41198U54	Electrolytic, 470 μ F/6.3V

Symbol No.	Part No.	Description
Resistors		
R1301	06T00005L85	Metal Film, 6.8K ohm 1W
R1302	06T00005L85	Metal Film, 6.8K ohm 1W
R7301	06T00013L57	Carbon Film, 470 ohm 1/3W
R7302	06T00013L57	Carbon Film, 470 ohm 1/3W
R7303	06T00014L22	Carbon Film, 220K ohm 1/3W
R7304	06T00014L22	Carbon Film, 220K ohm 1/3W
R7305	06T00018L11	Carbon Film, 75K ohm 1/2W
R7306	06T00018L11	Carbon Film, 75K ohm 1/2W
R7313	06T00018L14	Carbon Film, 100K ohm 1/2W
R7314	06T00018L14	Carbon Film, 100K ohm 1/2W
R7327	06T00018L04	Carbon Film, 39Kohm 1/2W
R7328	06T00018L04	Carbon Film, 39Kohm 1/2W
R7335	06T67397F01	Metal Film, 0.22 ohm x 2 5W
R7336	06T67397F01	Metal Film, 0.22 ohm x 2 5W
R7343	06T00013L41	Carbon Film, 100 ohm 1/3W
R7344	06T00013L41	Carbon Film, 100 ohm 1/3W
R7345	06T00007L67	Metal Film, 1.2K ohm 2W
R7346	06T00007L67	Metal Film, 1.2K ohm 2W
R7347	06T00005L17	Metal Film, 10 ohm 1W
R7348	06T00005L17	Metal Film, 10 ohm 1W
R7349	06T00007L17	Metal Film, 10 ohm 2W
R8315	06T00007L83	Metal Film, 5.6K ohm 1W
R8316	06T00007L69	Metal Film, 1.5K ohm 2W
VR7301	18C41732G06	Variable, 10K ohm
VR7302	18C41732G06	Variable, 10K ohm
Protect P.C. Board		
Transistors		
Q7371	48S43525F03	2SC1815-GR
or	48S44578J01	2SC945L-P
Q7372	48S43525F03	2SC1815-GR
or	48S44578J01	2SC945L-P
Q7373	48T51118F02	2SA1015-GR
or	48T40081T03	2SA733-P

Symbol No.	Part No.	Description
Q7374 or	48T51118F02 48T40081F03	2SA1015-GR 2SA733-P
Diodes		
D7371 or or	48T51117F01 48T52198F01 48T52198F02	1S1553 1S2462 1S2463
D7372 or or	48T51117F01 48T52198F01 48T52198F02	1S1553 1S2462 1S2463
D7373 or or	48T51117F01 48T52198F01 48T52198F02	1S1553 1S2462 1S2463
D7374 or or	48T51117F01 48T52198F01 48T52198F02	1S1553 1S2462 1S2463
D7375 or or	48T51117F01 48T52198F01 48T52198F02	1S1553 1S2462 1S2463
D7376 or or	48T51117F01 48T52198F01 48T52198F02	1S1553 1S2462 1S2463
D7377 or or	48T51117F01 48T52198F01 48T52198F02	1S1553 1S2462 1S2463
D7378 or or	48T51117F01 48T52198F01 48T52198F02	1S1553 1S2462 1S2463
Capacitors		
C7371 C7372 C7373 C7374	08T42081U27 08T42081U27 08T42081U27 08T42081U27	Polystyrol, 1200pF Polystyrol, 1200pF Polystyrol, 1200pF Polystyrol, 1200pF

Symbol No.	Part No.	Description
Function/LED P.C. Board		
LED		
LD8401	48T60947F05	LED, SLH-34VR3F (MM) (Red)
LD8402	48T60947F05	LED, SLH-34VR3F (MC) (Red)
LD8403	48T60947F04	LED, SLH-34MG3F (Phone) (Grn)
LD8404	48T60947F04	LED, SLH-34MG3F (Phone) (Grn)
LD8405	48T60947F04	LED, SLH-34MG3F (Phone) (Grn)
LD8406	48T60947F04	LED, SLH-34MG3F (Tuner) (Grn)
LD8407	48T60947F04	LED, SLH-34MG3F (Tuner) (Grn)
LD8408	48T60947F04	LED, SLH-34MG3F (Tuner) (Grn)
LD8409	48T60947F04	LED, SLH-34MG3F (CD) (Grn)
LD8410	48T60947F04	LED, SLH-34MG3F (CD) (Grn)
LD8411	48T60947F04	LED, SLH-34MG3F (CD) (Grn)
LD8412	48T60947F04	LED, SLH-34MG3F (Tape 2) (Grn)
LD8413	48T60947F04	LED, SLH-34MG3F (Tape 2) (Grn)
LD8414	48T60947F04	LED, SLH-34MG3F (Tape 2) (Grn)
LD8415	48T60947F04	LED, SLH-34MG3F (Tape 1) (Grn)
LD8416	48T60947F04	LED, SLH-34MG3F (Tape 1) (Grn)
LD8417	48T60947F04	LED, SLH-34MG3F (Tape 1) (Grn)
LD8418	48T60947F04	LED, SLH-34MG3F (AV1, 2/AUX) (Grn)
LD8419	48T60947F04	LED, SLH-34MG3F (AV1, 2/AUX) (Grn)
LD8420	48T60947F04	LED, SLH-34MG3F (AV1, 2/AUX) (Grn)
LD8421	48T60947F05	LED, SLH-34VR3F (AV) (Red)
LD8422	48T60947F05	LED, SLH-34VR3F (AV) (Red)
LD8423	48T60947F05	LED, SLH-34VR3F (AV) (Red)

Symbol No.	Part No.	Description
Function P.C. Board		
Switch		
S8411 ~ 8417	40T67390F01	Push (Phone, Tuner, CD, Tape 2, Tape 1, AV/AUX 2, AV/AUX 1)
Volume		
VR8402	18T67392F01	K121MO 250KMW (Balance)
MM/MC P.C. Board		
Diodes		
D8501 or D8502 or	48T51582F01 48T51881F01 48T51582F01 48T51881F01	MA-150 DS442-BT MA-150 DS442-BT
Switch		
S8501	40T67441F01	Switch Push SUFR512 (Cartridge)
AV Monitor P.C. Board		
Transistors		
Q9801 Q9802 Q9803 Q9804 Q9805	48S43525F05 48S43525F05 48T51118F01 48S47729F03 48S43525F05	2SC1815-Y, GR 2SC1815-Y, GR 2SA1015-Y FET, 2SK117-Y 2SC1815-Y, GR
Q9806 Q9807 Q9808 Q9809	48S43525F05 48S43525F05 48T51118F01 48S47729F03	2SC1815-Y, GR 2SC1815-Y, GR 2SA1015-Y FET, 2SK117-Y

Symbol No.	Part No.	Description
Diodes		
D1801 D1802 D9801 or D9802 or	48S40477U01 48S40477U01 48T51582F01 48T51881F01 48T51582F01 48T51881F01	1N4003 1N4003 MA-150 DS442-BT MA-150 DS442-BT
D9803 or D9804 or	48T51582F01 48T51881F01 48T51582F01 48T51881F01	MA-150 DS442-BT MA-150 DS442-BT
Relays/Jack		
RL9801 RL9802 J9801	80B42571P03 80B42571P03 09T67440F01	G2E 12V G2E 12V Jack, Plate Phone (AV1, AV2)
Capacitors		
C1801 C1802 C9801 C9802 C9804	08T52714F21 23S40657F52 23S40657F52 23S41198U41 23S40657F08	Ceramic 0.047 μ F Electrolytic 220 μ F/16V Electrolytic 220 μ F/16V Electrolytic 220 μ F/16V Electrolytic 100 μ F/10V
C9805 C9807 C9808 C9851 C9852	08S44505P36 23S40657F52 23S40657F52 08T67344F25 08T67344F25	Ceramic 91 pF Electrolytic 220 μ F/16V Electrolytic 220 μ F/16V Polystyrol 1000 pF Polystyrol 1000 pF
AV Terminal P.C. Board		
Jack		
J9811	09T67439F01	Headphone (AV-1, AV-2)

Symbol No.	Part No.	Description
Front/AUX P.C. Board		
Jacks/Switch		
J9861	09T67396F01	Plate Phone (Front AV/AUX AUDIO)
J9862	09T67396F01	Plate Phone (Front AV/AUX AUDIO)
J9863	09T67396F01	Plate Phone (Video)
S9861	40T67387F01	Switch, Push SUL121A (AV/AUX, Front/Rear)
Fuse P.C. Board		
C1001	■ 08T57437F09	Capacitor, Ceramic 0.01 uF
C1001	★ 08T57437F09	Capacitor, Ceramic 0.01 uF
C1001	▲ 08T57437F09	Capacitor, Ceramic 0.01 uF
F1901	■ 65T42077U24	Fuse, T-6.3A
F1901	■ 65T42077U24	Fuse, T-6.3A
F1902	▲ 65T42077U24	Fuse, T-6.3A
F1902	■ 65T42077U24	Fuse, T-6.3A
F1903	▲ 65T42077U06	Fuse, T-100mA
F1903	■ 65T42077U06	Fuse, T-100mA
F1904	▲ 65T42077U06	Fuse, T-100mA
F1904	■ 65T42077U06	Fuse, T-100mA
F1905	▲ 65T42077U16	Fuse, T-1A
F1905	■ 65T42077U16	Fuse, T-1A
F1906	▲ 65T42077U15	Fuse, T-800mA
F1906	■ 65T42077U15	Fuse, T-800mA
Miscellaneous		
J1001	● 09T67405F01	Outlet, AC
J1001	○ 09T67405F02	Outlet, AC
J1002	■ 09T67405F01	Outlet, AC
J1002	○ 09T67405F02	Outlet, AC
J4701	★ 09T66672F01	Headphone Jack
J7351	09T60544F01	Terminal, Speaker
J9802	09T67438F01	Plate, Phone Jack (Video Monitor)
LD8611	48T60947F05	LED, SLH-34VR3 (Red) (Tone)
LD8612	48T60947F05	LED, SLH-34VR3F (Red) (Pre-Heating)

Symbol No.	Part No.	Description
P1001	● 28T67434F01	Power AC Cord
P1001	○ 28T55335F01	Power AC Cord
P1001	■ 28T43812P02	Power AC Cord
P1001	▲ 28T68132F01	Power AC Cord
P1001	★ 28T43812P02	Power AC Cord
Q4901	65T00091L01	Vacuum Tube (6CG7)
Q4902	65T00091L01	Vacuum Tube (6CG7)
R8401	06T00013L57	Res., Carbon 470 ohm 1/3W
R8402	06T00013L57	Res., Carbon 470 ohm 1/3W
S8401	40T67391F01	Switch, Push (Phone, Tuner, CD, AV, Tape 2/Tape 1, AV-2/AV-1, OFF)
~ 8407		
T1001	● 25T67380F01	Power Transformer
T1001	○ 25T69008F01	Power Transformer
T1001	■ 25T68576F01	Power Transformer
T1001	▲ 25T70937F01	Power Transformer
T1001	★ 25T68576F01	Power Transformer
T1002	● 25T68578F02	Power Transformer
T1002	○ 25T68578F03	Power Transformer
T1002	■ 25T68578F01	Power Transformer
T1002	▲ 25T68578F05	Power Transformer
T1002	★ 25T68578F01	Power Transformer
VR8401	18T67393F01	Variable Res., 100K ohm (Volume Control)
C1001	● 08T57437F09	Capacitor, Ceramic 0.01 uF
C1001	○ 08T57437F09	Capacitor, Ceramic 0.01 uF

Note: ● : For JK model only, ○ : For EZ model only, ■ : For SK model only, ▲ : For SG model only, ★ : For SH model only, Others: Common

Destination's Parts List

Symbol No.	Description	POWER SOURCE				
		JK 100V	EZ 120V	SK 220V	SG 240V	SH 220V
		Korea	Taiwan	West Germany	England/ Australia	Hong Kong
31	Holder, Fuse	09T51960F01	09T51960F01	09T51410F01	09T51410F01	09T51960F01
70	Cover, Rear	15C67324F05	15C67324F05	15C67324F06	15C67324F06	15C67324F06
81	Bush, Cap	43T53136F01	43T53136F01	Not Used	Not Used	Not Used
89	Assembly, Fuse P.C. Board	Not Used	Not Used			
90	Bracket, Fuse P.C. Board	Not Used	Not Used	07A69038F01	07A69038F01	07A69038F01
91	Label, Fuse	Not Used	Not Used	54B62266F41	54B62266F41	Not Used
92	Label, Fuse	Not Used	54B62266F06	54B62266F30	54B62266F30	Not Used
93	Label, Fuse	Not Used	Not Used	54B62266F31	54B62266F31	Not Used
T1001	Trans, Power	25T67380F01	25T69008F01	25T68576F01	25T70937F01	25T68576F01
T1002	Trans, Power	25T68578F02	25T68578F03	25T68578F01	25T68578F05	25T68578F01
J1001	Outlet, AC	09T67405F01	09T67405F02	Not Used	Not Used	Not Used
J1002	Outlet, AC	09T67405F01	09T67405F02	Not Used	Not Used	Not Used
C1001	Capacitor, Ceramic	08T57437F09	08T57437F09	08T57437F09	08T57437F09	08T57437F09
P1001	AC Power Cord	28T67434F01	28T55335F01	28T43812P02	28T68132F01	28T43812P02
S1701	Switch, Power	40T61963F02	40T61963F02	40T68579F01	40T68579F01	40T68579F01
F1701	Fuse	65T55050F05	65T52486F13	65T42077U13	65T42077U13	65T55050F05
F1702	Fuse	65T55050F19	65T52486F41	65T42077U22	65T42077U22	65T55050F19
F1901	Fuse	Not Used	Not Used	65T42077U24	65T42077U24	Not Used
F1902	Fuse	Not Used	Not Used	65T42077U24	65T42077U24	Not Used
F1903	Fuse	Not Used	Not Used	65T42077U06	65T42077U06	Not Used
F1904	Fuse	Not Used	Not Used	65T42077U06	65T42077U06	Not Used
F1905	Fuse	Not Used	Not Used	65T42077U16	65T42077U16	Not Used
F1906	Fuse	Not Used	Not Used	65T42077U15	65T42077U15	Not Used
	Label, Serial No.	54B42124G08	54B57610F13	54A57610F11	54B57610F10	54B42124G08
	Label, Serial No.	Not Used	Not Used	Not Used	Not Used	54B57610F11
	Label, Safety	Not Used	Not Used	54B60909F09	Not Used	Not Used
	Label, Volt	Not Used	Not Used	54B44257U01	Not Used	Not Used

Cabinet Assembly Parts List

NOTE: ※ The parts whose parts numbers are not entered will not be supplied.

Symbol No.	Index	Part No.	Description
1		03S63857F01	Screw, Tappine (M4 x 10)
2		04A65640F04	Washer, Fiber (M4)
3	1-A	15D67323F01	Cover, Top
4	3-A	01V69100F72	Assembly, Front Panel
5	4-A	01V68500F35	Assembly, Front Escutcheon
6		03S40018G08	Screw, Tapping (M3 x 8)
7	5-A	41A68570F01	Spring, Volume
8		36B67337F01	Knobs, Tone Control
9	2-A	43A68460F01	Bushing
10		05B41635J04	Rivet, Bush
11		※	Shield, Power Switch
12		03S40012G98	Screw, Tapping (M3 x 8)
13		14S53017F64	Cover, Insulator
14	4-A	36B67336F01	Knob, Volume Control
15	3-A	36A67330F01	Switch, Push (Power)
16	3-A	36A67331F01	Button, Push (Speaker Select)
17	4-A	※	Tone/LED P.C. Board
18		36A67333F01	Switch, Push
19	4-C	15A69033F01	Guide, Volume
20	4-B	※	Headphone Jack MTG P.C. Board
21	5-B	14S58462F59	Cover, Insulator
22	3-B	※	Chassis, Front
23	3-B	03D40014G04	Screw, W/Washer (M3 x 6)
24		03S40012G93	Screw, Tapping (M3 x 8)
25	3-B	36A67332F01	Button, Push (REC Out)
26		29C41045P05	Lug, Cord
27	4-B	36A67334F01	Button, Push (AV)
28	4-B	※	Headphone P.C. Board
29	5-B	01V68400F79	Function/LED P.C. Board
30	5-B	07B67320F01	Assembly Frame, LED
31 ●		09T51960F01	Holder, Fuse
31 ○		09T51960F01	Holder, Fuse
31 ■		09T51410F01	Holder, Fuse
31 ▲		09T51410F01	Holder, Fuse
31 ★		09T51960F01	Holder, Fuse
32	4-B	43A67342F01	Spacer, Switch
33	2-C	※	Tone P.C. Board Assembly
34	3-C	※	Speaker Switch P.C. Board Assembly
35	5-C	※	Bottom Cover
36		75A67063F02	Leg

Symbol No.	Index	Part No.	Description
37		75A67064F01	Felt
38		04S40072G15	Washer, Toothed Lock, B (M4.3)
39		03S44205G28	Screw, Bind (M4 x 16)
40	3-C	※	Heat-up/Switch P.C. Board Assembly
41	1-C	07A40871F01	Bracket, Transformer
42	2-C	※	Chassis, Transformer
43	2-C	※	Shield, Tone P.C. Board
44	3-C	※	MM/MC P.C. Board Assembly
45		03S40036U01	Screw, W/Washer (M4 x 8)
46	2-D	75A68381F01	Cushion
47	3-D	※	Tube P.C. Board
48	3-D	※	REC Selector P.C. Board
49		※	Volume Control P.C. Board
50	4-D	※	Front/AUX P.C. Board Assembly
51	5-D	※	Chassis Side
52	3-D	09T64527F01	Socket, Vacuum Tube
53	4-D	※	Function P.C. Board Assembly
54		75T57059F01	Pad, Leg
55	2-E	07C67319F01	Tube Frame
56	3-E	75A67341F01	Cushion
57	4-E	75A57803F11	Cushion
58	4-E	※	Shield Plate
59	2-E	03S43997P76	Screw, Bind (M3 x 6)
60	2-E	※	AV Monitor P.C. Board Assembly
61	2-E	14A68351F01	Insulator
62	2-E	※	Speaker Terminal P.C. Board
63	2-E	※	Main P.C. Board Assembly
64	2-E	03C40121T13	Screw, W/Dual Washer (M3 x 10)
65		03D40014G32	Screw, W/Washer (M3 x 12)
66	3-E	※	Heat Sink
67		43A63128F02	Spacer, Holder
68		02B47353F02	Nut, Hex. (M3)
69	4-E	※	Support, Equalizer P.C. Board
70 ●	1-F	15C67324F05	Cover, Rear
70 ○	1-F	15C67324F05	Cover, Rear
70 ■	1-F	15C67324F06	Cover, Rear
70 ▲	1-F	15C67324F06	Cover, Rear
70 ★	1-F	15C67324F06	Cover, Rear

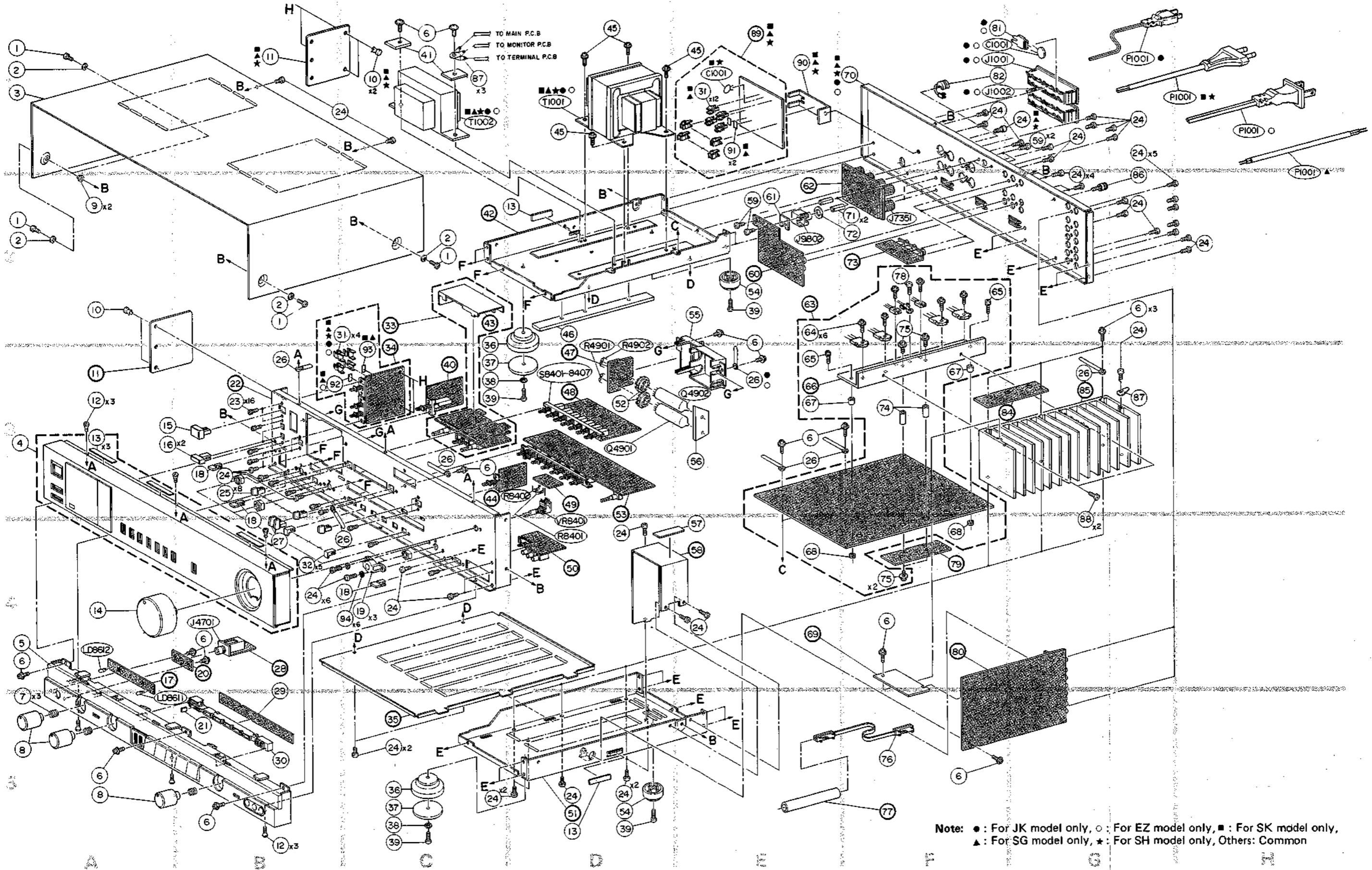
Note: ● : For JK model only, ○ : For EZ model only, ■ : For SK model only,
▲ : For SG model only, ★ : For SH model only, Others: Common

NOTE: ※ The parts without part numbers are not supplied.

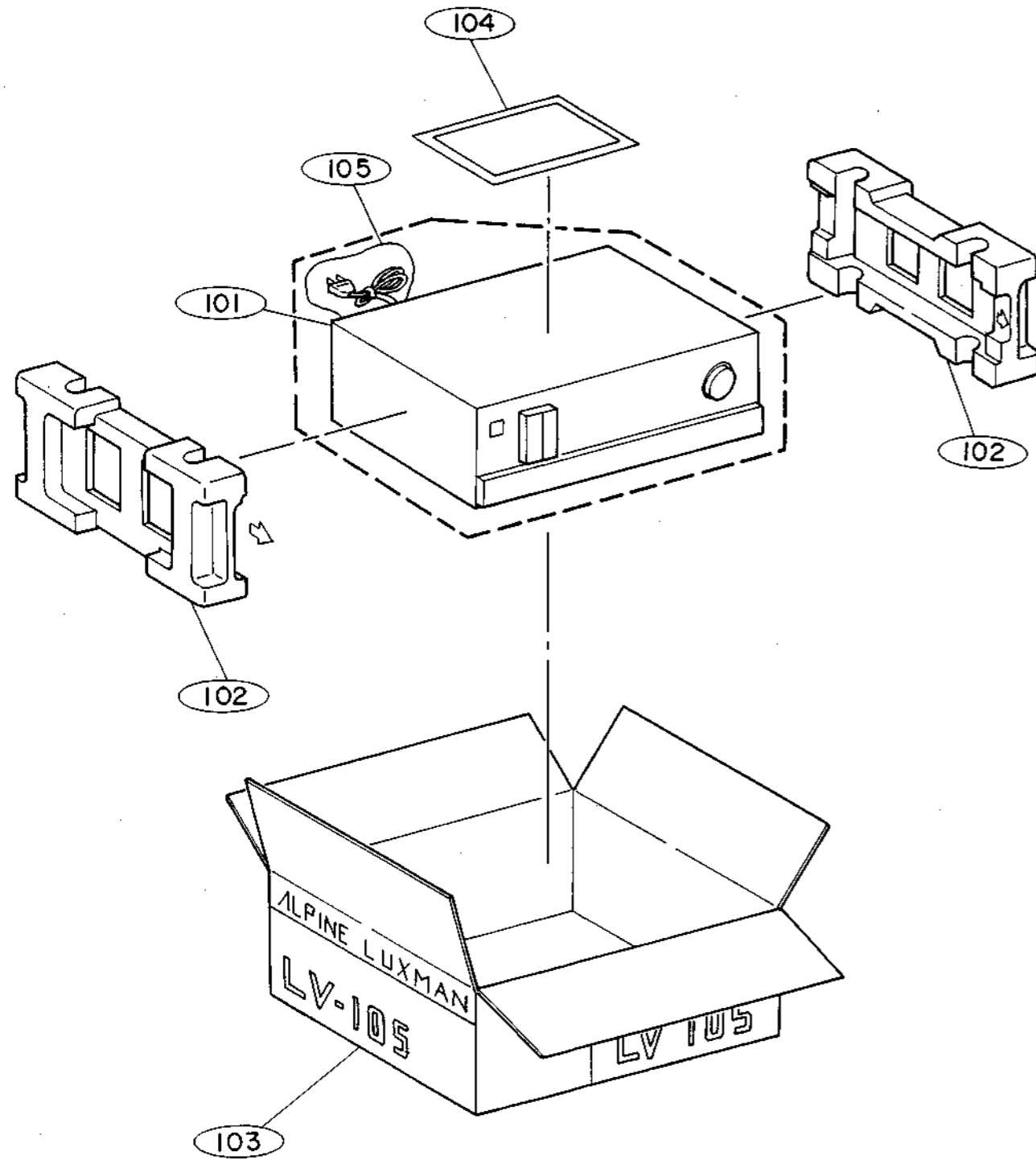
Symbol No.	Index	Part No.	Description	Symbol No.	Index	Part No.	Description
71	2-F	47B64899F16	Stud				
72	2-F	04A40072F03	Washer, Felt (M9.2)				
73	2-F	※	AV Terminal P.C. Board Assembly				
74	3-F	47B64899F17	Stud				
75		03C40121T05	Screw, W/Dual Washer (M3 x 8)				
76	5-F	45T67442F01	Wire, Flexible				
77	5-F	※	Tube (90)				
78	2-F	03C40121T17	Screw, W/Dual Washer (M3 x 8)				
79	4-F	※	Protect P.C. Board Assembly				
80	4-F	※	Equalizer P.C. Board Assembly				
81	● 1-F	43T53136F01	Bush, Cap				
81	○ 1-F	43T53136F01	Bush, Cap				
82	1-F	43B41625J02	Holder, Cord				
84	3-G	※	Wire, MTG P.C. Board				
85	3-G	※	Heat Sink				
86	2-G	29T66964F01	Ground Terminal				
87		29A41814G01	Lug, Cord				
88	4-G	03S40012G99	Screw, Tapping (M3 x 10)				
89	■ 1-E	※	Assembly, Fuse P.C. Board				
89	▲ 1-E	※	Assembly, Fuse P.C. board				
89	★ 1-E	※	Assembly, Fuse P.C. Board				
90	■ 1-E	07A69038F01	Bracket, Fuse P.C. Board				
90	▲ 1-E	07A69038F01	Bracket, Fuse P.C. Board				
90	★ 1-E	07A69038F01	Bracket, Fuse P.C. Board				
91	■ 1-E	54B62266F41	Label, Fuse				
91	▲ 1-E	54B62266F41	Label, Fuse				
92	○ 3-B	54B62266F06	Label, Fuse				
92	■ 3-B	54B62266F30	Label, Fuse				
92	▲ 3-B	54B62266F30	Label, Fuse				
93	■ 3-C	54B62266F31	Label, Fuse				
93	▲ 3-C	54B62266F31	Label, Fuse				
94	4-C	04S40070G23	Washer, Flat (M3.3)				

Note: ● : For JK model only, ○ : For EZ model only, ■ : For SK model only,
▲ : For SG model only, ★ : For SH model only, Others: Common

Exploded View (Cabinet)



Packing Method View



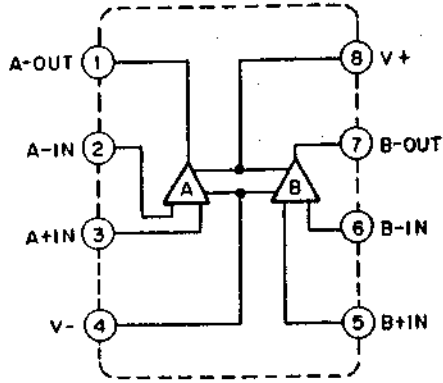
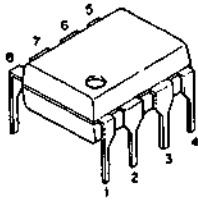
Packing Assembly Parts List

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
101	56B40442T13	Front Frame			
102	56D67465F01	Tray, Packing			
103	56S60482F70	Tray, Packing (Individual)			
104	68P67499F27	Owner's Manual			
105	56B40230G08	Sack, Polyethylene			
Labels					
	● 54B42124G08	Serial No. (Rear Cover, Packing Carton)			
	★ 54B42124G08	Serial No. (Rear Cover)			
	★ 54B57610F11	Serial No. (Rear Cover)			
	○ 54B57610F13	Serial No. (Rear Cover)			
	■ 54A57610F11	Serial No. (Rear Cover)			
	▲ 54B57610F10	Serial No. (Rear Cover)			
	■ 54B60909F09	Safety (Rear Cover)			
	■ 54B44257U01	Volt (Carton, Packing)			

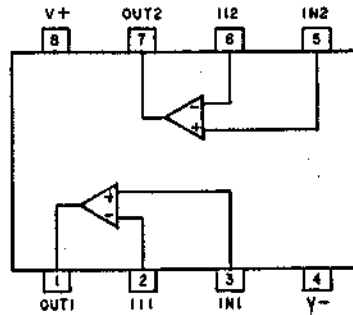
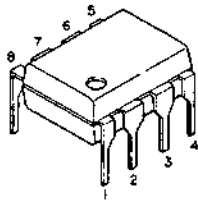
Note: ● : For JK model only, ○ : For EZ model only, ■ : For SK model only, ▲ : For SG model only, ★ : For SH model only, Others: Common

Semi-Conductor Lead Identification

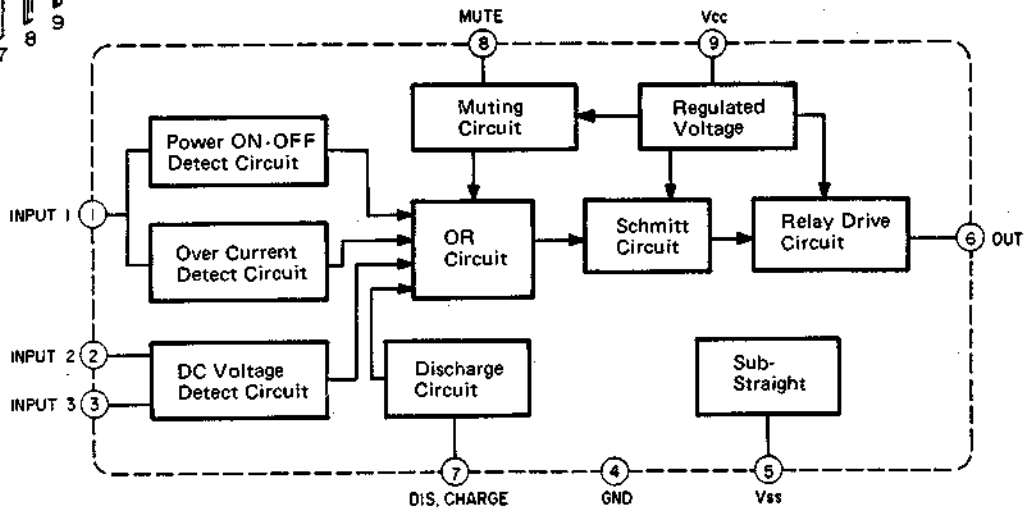
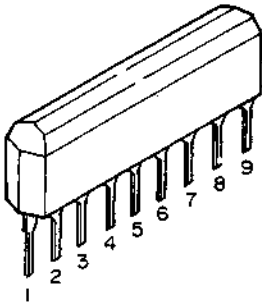
NJM2043D: IC2105



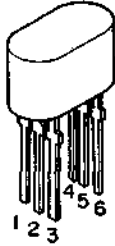
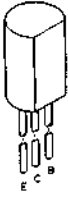
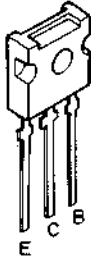





μPC4558C: IC4201

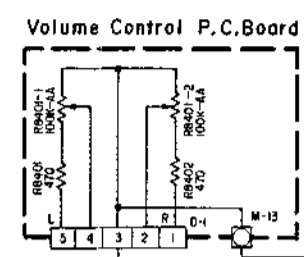
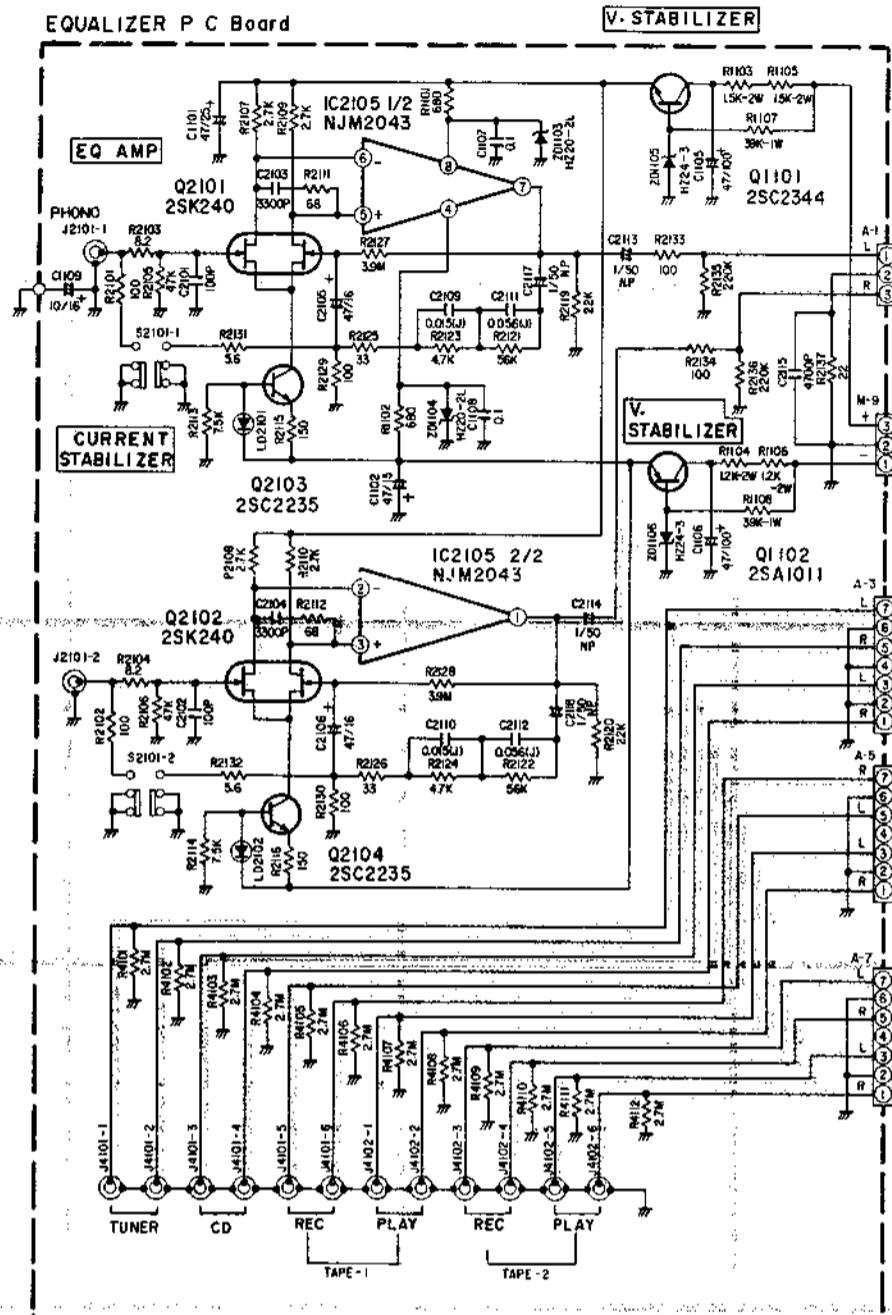


TA7317P: IC8306



<p>2SC2344: Q1101 2SA1011: Q1102</p> 	<p>2SD1266: Q1301</p> 	<p>2SK240: Q2101, 2102 2SJ75: Q7301, 7302</p>  <ol style="list-style-type: none"> 1. Source 1 2. Gate 1 3. Drain 1 4. Drain 2 5. Gate 2 6. Source 2
<p>2SC2235: Q2103, 2104</p> 	<p>2SA1360: Q7303 ~ 7306 Q7317, 7318 2SC3423: Q7307 ~ 7316</p> 	<p>2SK405: Q7319, 7320 2SJ115: Q7321, 7322</p>  <ol style="list-style-type: none"> 1: GATE 2: DRAIN 3: SOURCE
<p>2SC2240: Q7323, 7324 2SC945 2SC1815 } : Q7371, 7372 2SA733 2SA1015 } : Q7373, 7374 2SA970: Q8301 2SC1815: Q8302 ~ 8305, Q9801, 9802, 9805, Q9806, 9807 2SA1015: Q9803, 9808</p> 		<p>2SK117: Q9804, 9809</p>  <ol style="list-style-type: none"> 1. Drain 2. Gate 3. Source

IC	IC2105		
TRANSISTOR (Q)	Q2101, Q2103 Q2102, Q2104	Q9801 ~ Q9809	Q1101, Q1102
DIODE (D, ZD, LD)	LD2101 LD2102 D1801	ZD1104 ZD1103	ZD1105 ZD1106 D9802, D9801, D9803, D9804, D1802
			LD841 ~ LD8423



IC4201

IC8306

Q7301, Q7317, Q7303, Q7305, Q7309 Q7311, Q7313, Q7315 Q7319, Q7321 Q7323, Q7324
 Q7318, Q7302, Q7304, Q7306, Q7308, Q7310 Q7312, Q7314, Q7316 Q7320, Q7322 Q7371, Q7373
 Q7307 Q1301 Q8301 Q8303 Q8302 Q4902 Q4901 Q8305, Q8304 Q7372, Q7374

D8501, D8502

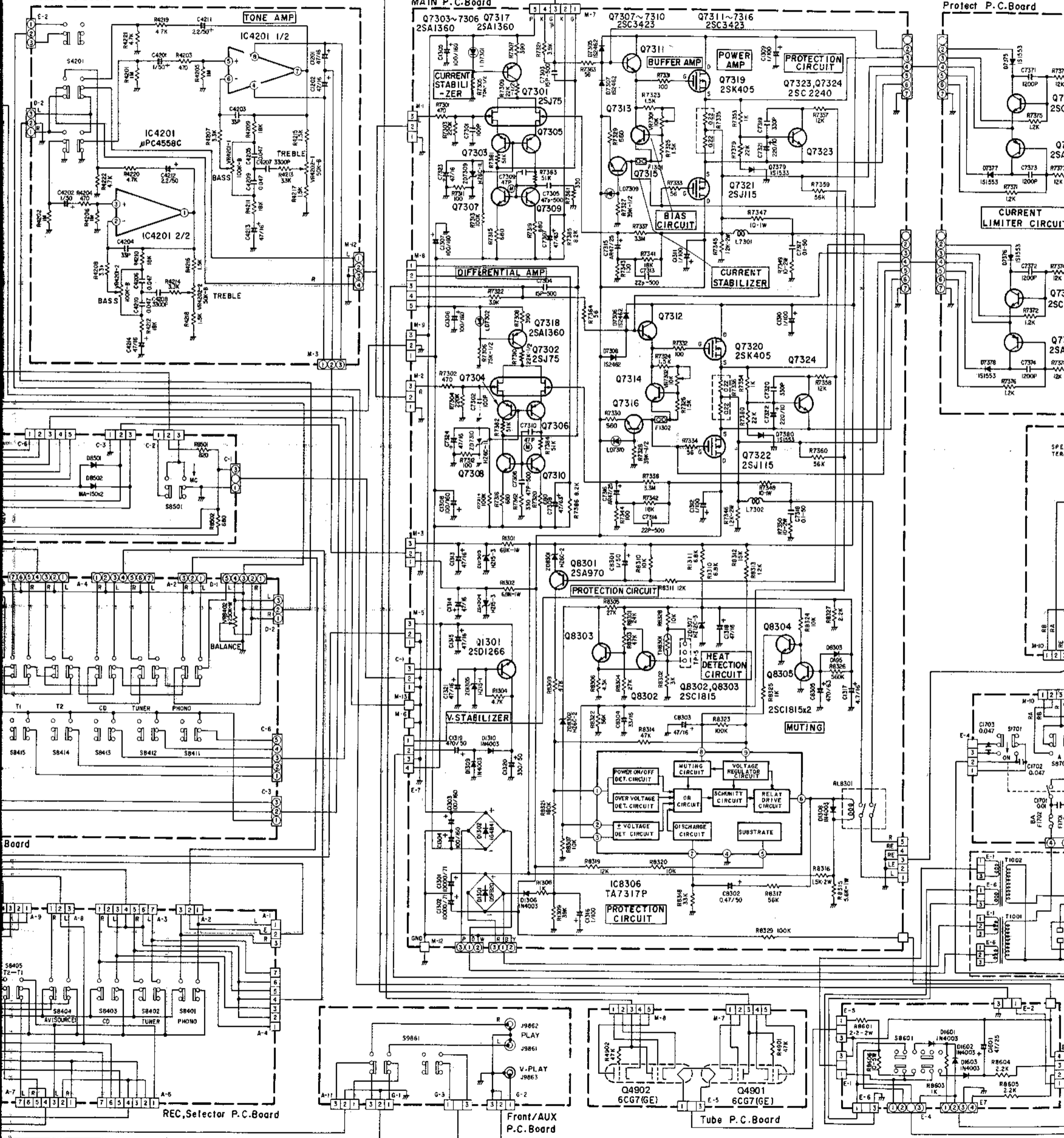
L07301, Z07310
 Z07309, L07302 D1310, D1502, D1503, Z08301 Q7305, Q7307, L07309 D7379
 D1309, Z01305, Z01304, Z01303, D1506 Z08302 Q7306, Q7306, L07310 Z01307 D7380
 D1308 D8303 D1601 ~ D1603

D7375
 D7377
 D7378, D7376

Tone P.C. Board

MAIN P.C. Board

Protect P.C. Board



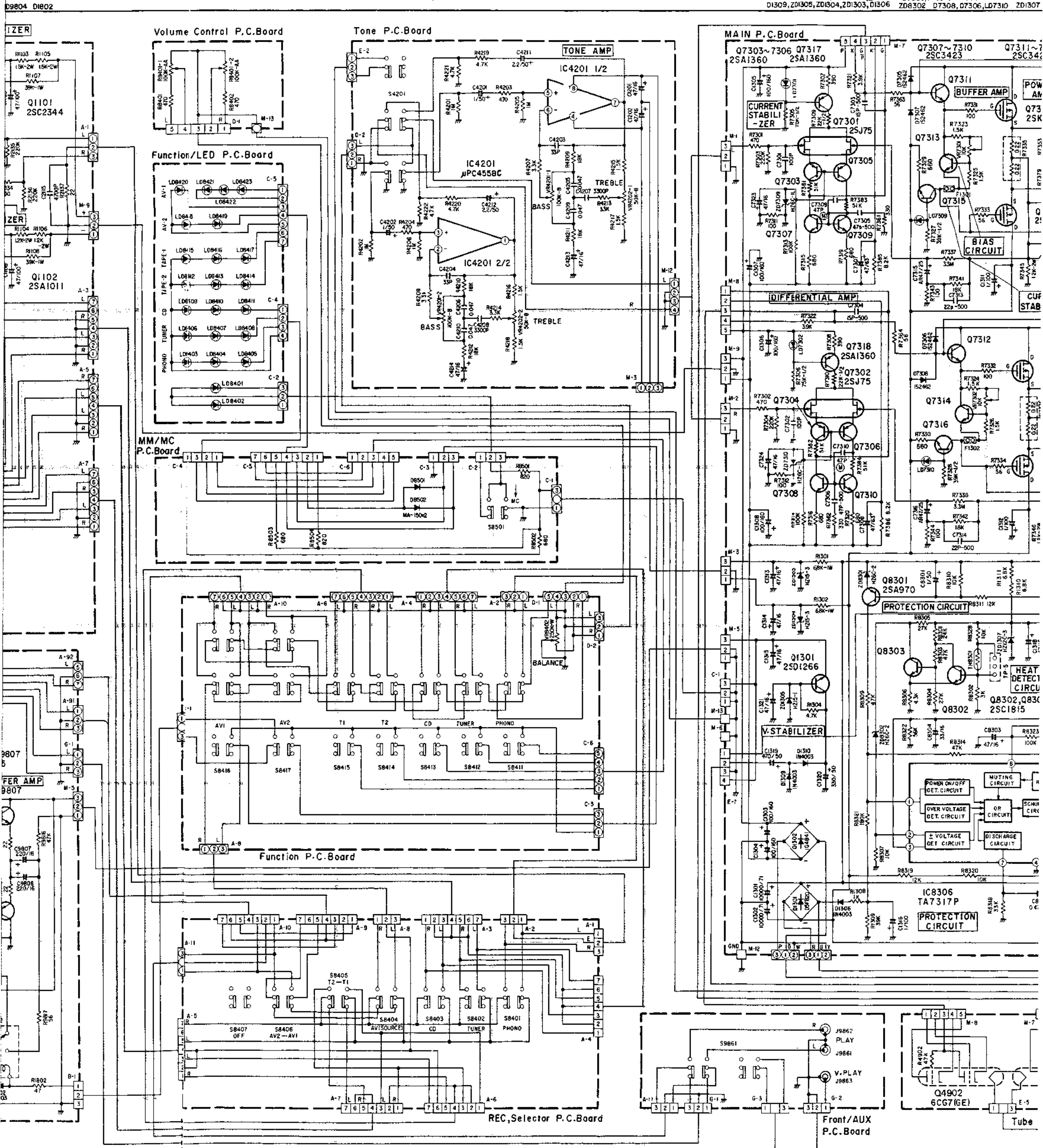
IC4201

IC83
Q7301, Q7317, Q7303, Q7305, Q7309 Q7311, Q7313, Q7315 Q7319, Q732
Q7318, Q7302, Q7304, Q7306, Q7308, Q7310 Q7312, Q7314, Q7316 Q732
Q7307 Q1301 Q8301 Q8303 Q8302 Q4902

L08401 ~ L08423

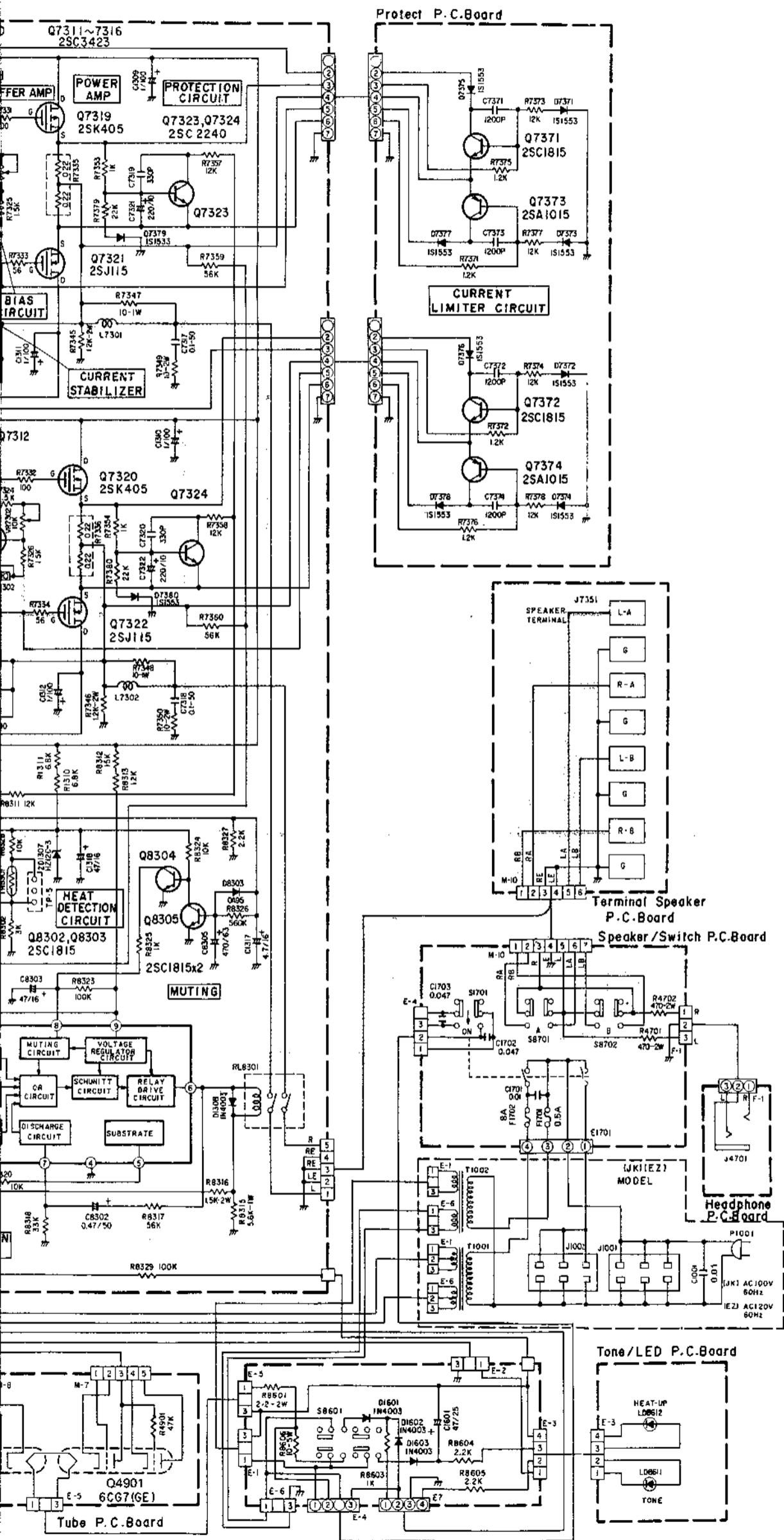
D8501, D8502

L07301 ZD7310
ZD7309 LD7302 D1301, D1302, D1303, D1304, D1305, D1306 D7305, D7307, L07309
D1309, ZD1305, ZD1304, ZD1303, D1306 ZD8302 D7308, Q7306, LD7310 ZD1307



Tube

IC8306		Q7319, Q7321		Q7323, Q7324		Q7371, Q7373	
Q7315, Q7316, Q7320, Q7322		Q8305, Q8304		Q7372, Q7374			
Q4902, Q4901							
D7379		D8303		D7375		D7379	
D806, LD7310, ZD1507, D7380		D1308		D7377, D7378, D7376		D7371, D7373, D7380, D7372, D7374, LD8612, LD8611	



IC2105

1	2	3	4	5	6	7	8
0V	15.0V	15.0V	-20.0V	15.0V	15.0V	0V	20.0V

IC4201

1	2	3	4	5	6	7	8
0V	0V	0V	-15.0V	0V	0V	0V	15.0V

IC8306

1	2	3	4	5	6	7	8	9
0.75V	0V	0V	0V	-0.75V	1.0V	0V	1.4V	3.1V

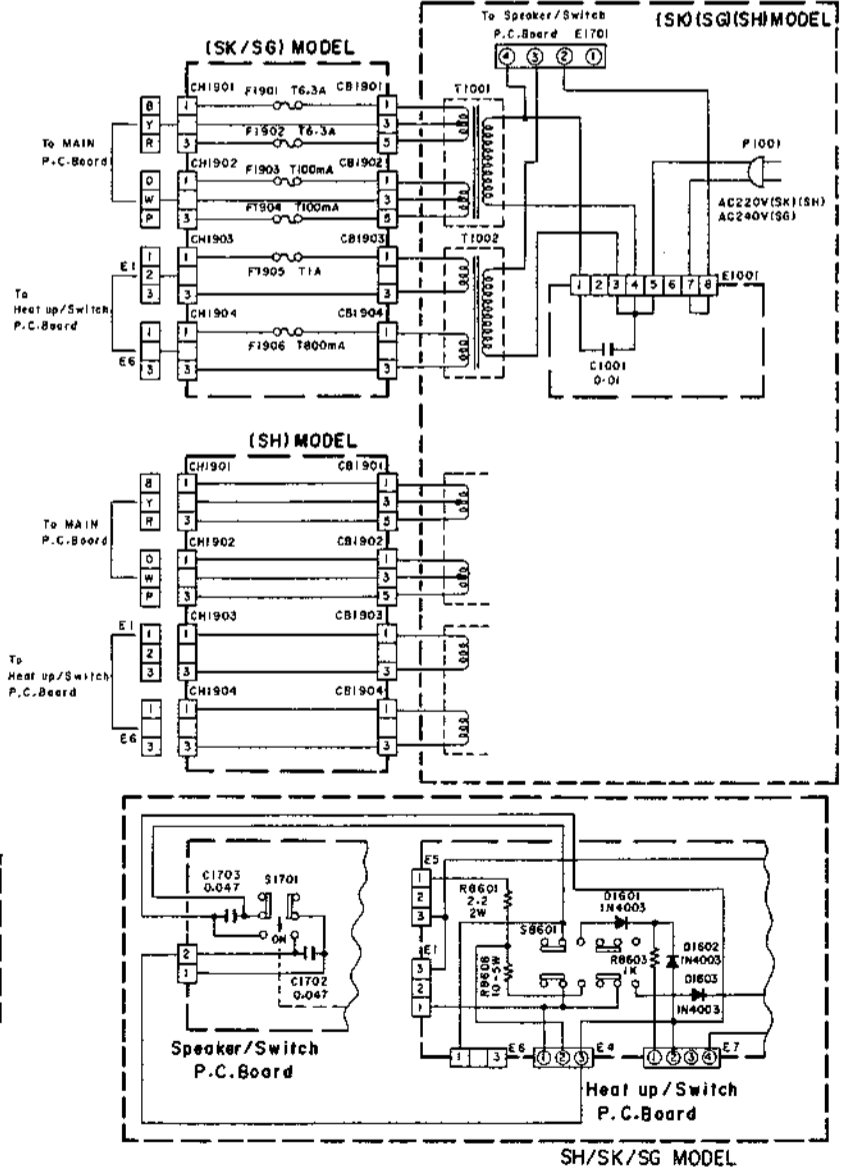
		Q2103	Q7303	Q7305	Q7307		
Q1101	Q1102	Q1301	Q2104	Q7304	Q7306	Q7308	
E	24.5V	-24.5V	14.0V	-23.3V	-5.4V	-5.4V	114V
B	25.1V	-25.1V	14.6V	-22.7V	-6.0V	-6.0V	-113.4V
C	45.0V	-45.0V	35.5V	0.07V	-110V	-110V	-110V

		Q7309	Q7311	Q7313	Q7315	Q7317	Q7323
Q7310	Q7312	Q7314	Q7316	Q7318	Q7324	Q8301	
E	-114V	1.4V	-1.6V	-5.1V	113.0V	0V	52.0V
B	-113.4V	2.0V	-1.0V	-50.4V	113.6V	0V	52.0V
C	-113V	52.0V	1.4V	-1.6V	-0.3V	52.0V	-0.75V

		Q8301	Q8302	Q8303	Q8304	Q8305	Q8306	Q8308
E	1.4V	1.4V	0V	0V	8.0V	7.4V	7.6V	
B	1.4V	2.0V	0.6V	0V	8.6V	8.0V	7.0V	
C	12.0V	12.0V	0V	-1.4V	14.0V	8.6V	8.6V	

		Q2101	Q7301	Q7319	Q7321	Q8804
Q9805	Q2102	Q7302	Q7320	Q7322	Q9809	
E	1.2V	0.07V	-0.3V	0.022V	-0.022V	0.12V
B	1.8V	0V	0V	1.4V	-1.6V	0V
C	9.0V	15.0V	-5.4V	52.0V	-52.0V	0.7V

X	SK/SG	JK	EZ	SH
F1701	T-500mA	0.5A	0.5A	0.5A
F1702	T-4A	8A	8A	8A



- NOTES:
- All resistance values are in ohms. K = 1,000
 - All capacitance values are in microfarads. P = $\frac{1}{1,000,000}$
 - Voltage values are reference values measured to chassis ground at no signal with rated voltage applied, using a digital voltmeter.