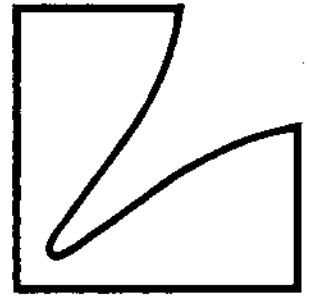
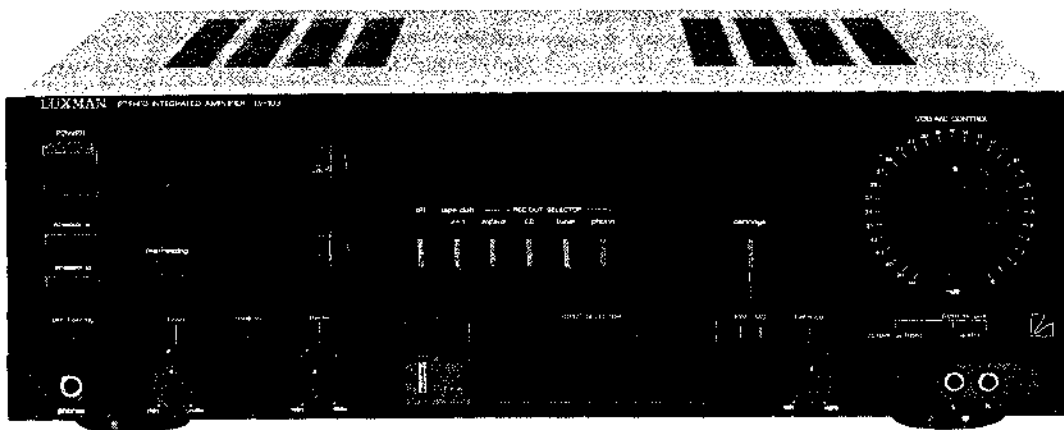


SERVICE MANUAL



Stereo Integrated Amplifier

LV-103



Contents

Specifications	2
Parts Locations and Disassembly Instructions	3 to 7
Adjustment Procedures	7
Adjustment Locations	8
Block Diagram	9
Parts Layout on P.C. Boards	10 to 22
Wiring Diagram	23 to 24
Schematic Diagram	25 to 26
Electrical Parts List	27 to 34
Exploded View (Cabinet)	35 to 36
Cabinet Assembly Parts List	37 to 38
Packing Method View	39
Packing Assembly Parts List	39
Semi-conductor Lead Identifications	40 to 41

Specifications

Power-Output	50W (0.25% THD at 20 – 20 kHz)
Headphones Output	(50W/8 ohm – 1 kHz) 340mV ±10%
Input Sensitivity (1 kHz)	TUNER: 150mV ±10%, CD: 150mV ±10%, TAPE-1, -2: 150mV ±10%, AV (audio): 150mV ±10%, PHONO (MM): 2.3mV ±10%, PHONO (MC): 130µV ±10%
Input Impedance (1 kHz)	TUNER: 45K ohm ±10%, CD: 45K ohm ±10%, TAPE-1, 2: 45K ohm ±10%, AV (audio): 45K ohm ±10%, PHONO (MM): 47K ohm ±10%, PHONO (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, PHONO (MM/MC): 100 Hz ±0.5 dB, PHONO (MM/MC): 10 Hz ±0.5 dB, AV (audio): 10 – 100 kHz 10.6–2.0 dB
Signal to Noise Ratio (Input Terminal Shorted)	TUNER: 86 dB, CD: 86 dB, TAPE-1, -2: 86 dB, AV-1, -2: 86 dB, PHONO (MM): 68 dB, PHONO (MC): 46 dB
Power Supply	SK, SH: 220V (50 Hz), JK: 100V (60 Hz) SG: 240V (50 Hz), EZ: 120V (60 Hz)
Power Consumption	230W
Semiconductors	3 ICs, 31 Transistors, 8 FETs, 9 Zener Diodes, 23 Diodes, 2 Vacuum Tubes
Dimension	438(W) x 148(H) x 353(D) mm
Weight	10.0 kg

Parts Locations and Disassembly Instructions

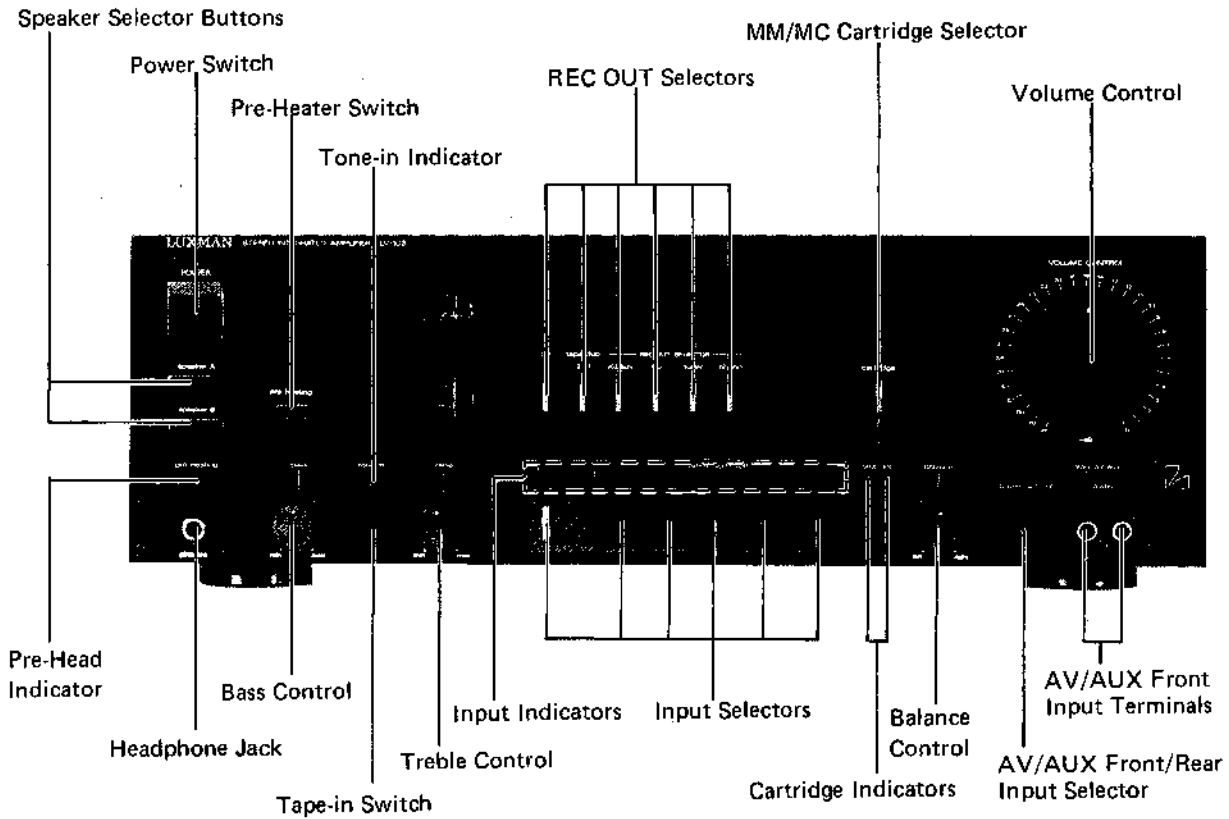


Figure 1

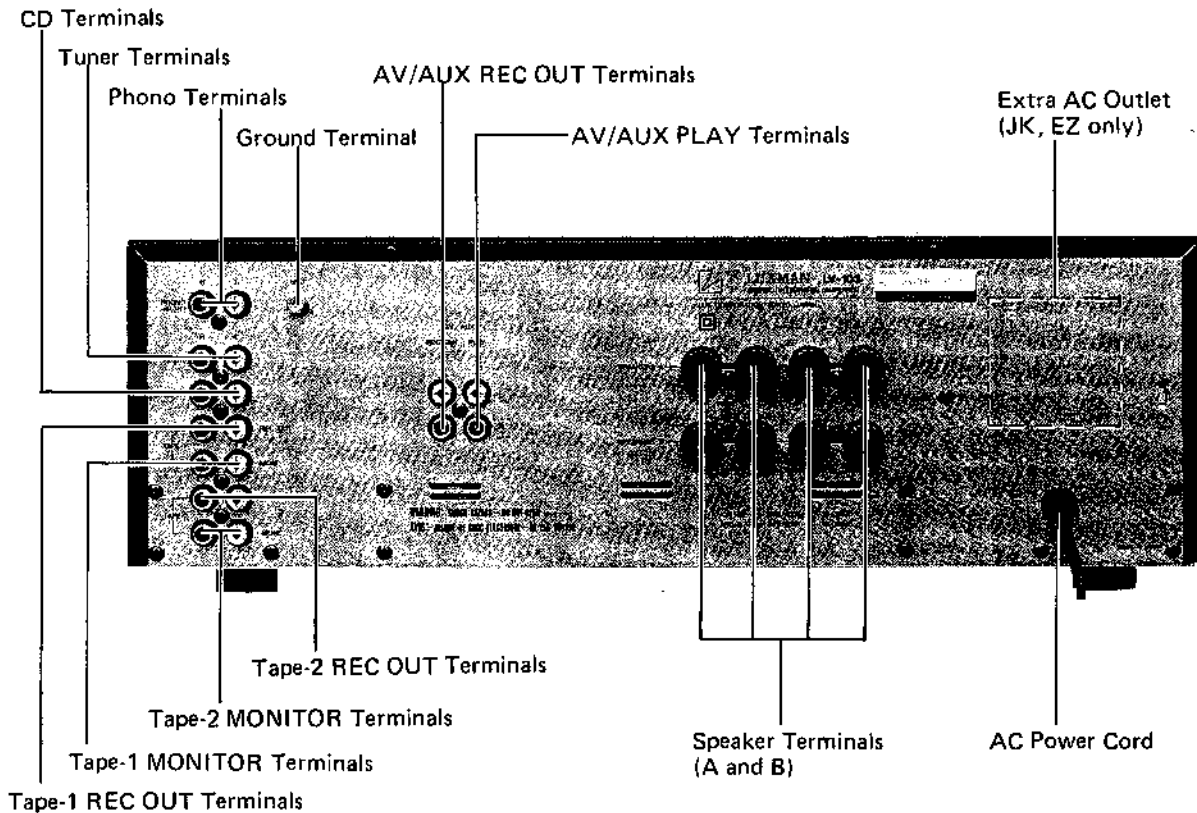


Figure 2

1. Removal of Top Cover

- (1) Remove six screws marked "○" as shown in Figures 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 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 Figures 3, 4 and 6.
- (2) Disconnect all wires from the Front Escutcheon.
- (3) The Front Escutcheon with Function, Tone and Headphone P.C. Board can be removed completely.

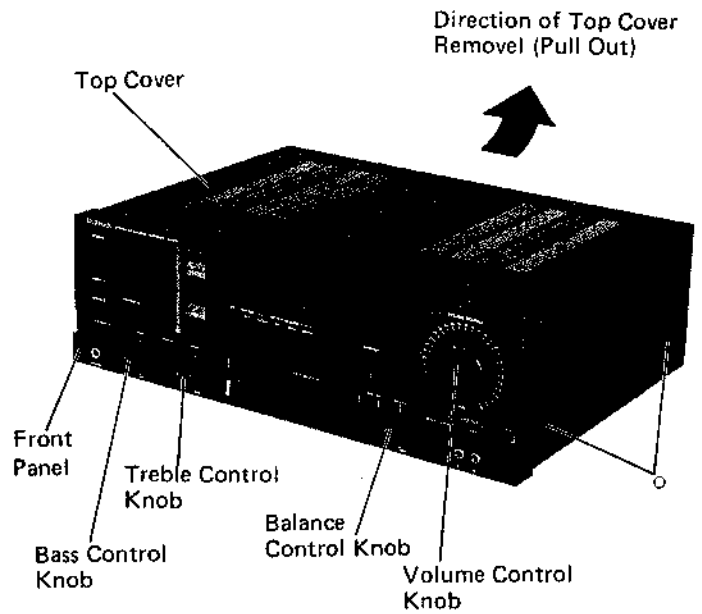


Figure 3

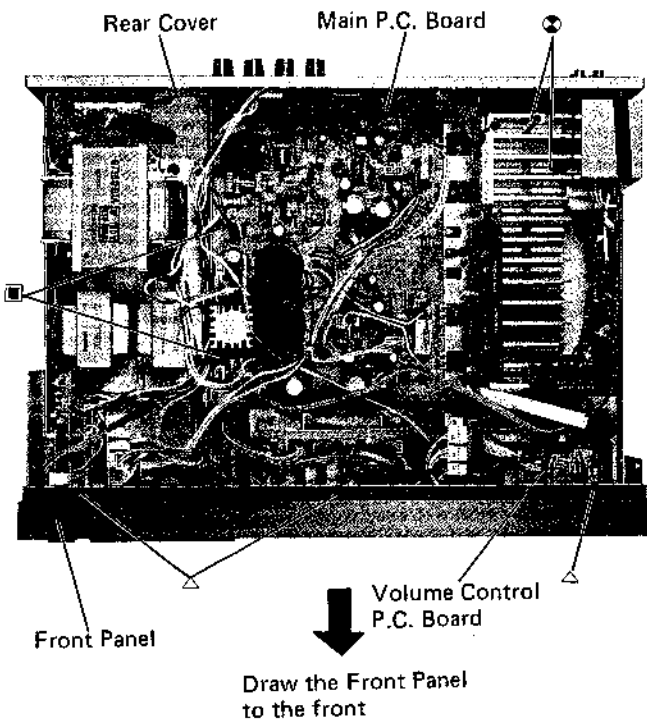


Figure 5

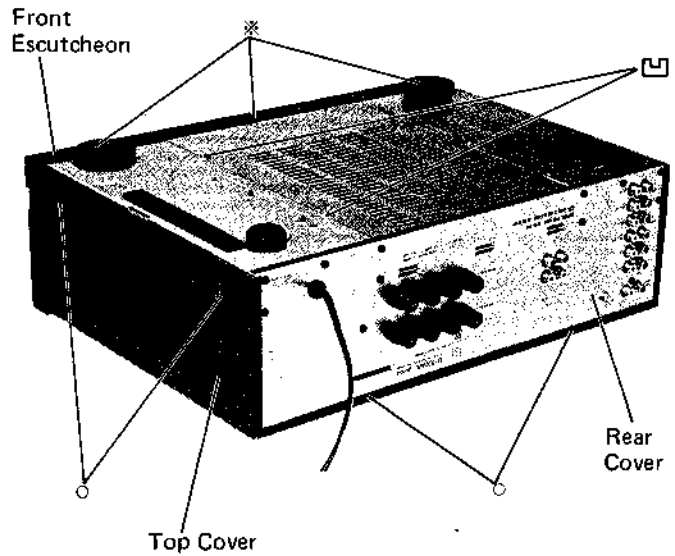


Figure 4

4. Removal of Function LED P.C. Board

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

5. Removal of Tone LED 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 ~ 9.

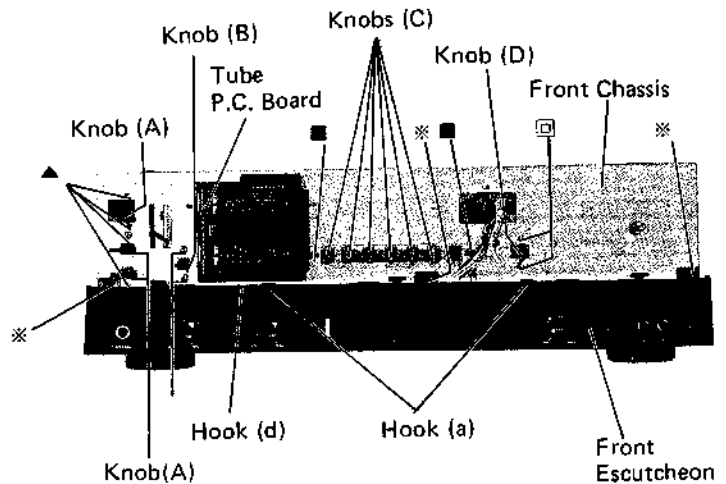


Figure 6

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 "凸" 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.

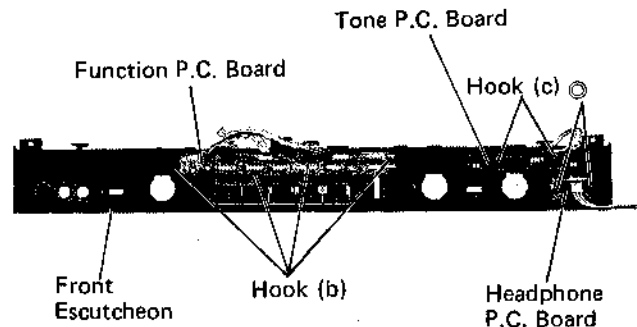


Figure 7

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

- (1) Remove two screws marked "■" and remove six 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.

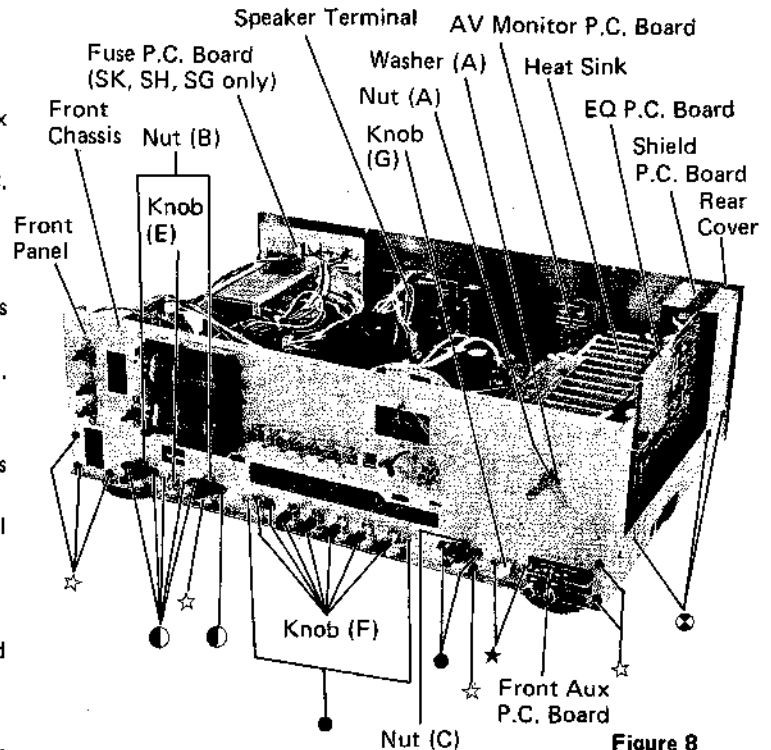


Figure 8

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

- (1) Remove six 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.

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 Monitor P.C. Board

- (1) Remove one screw marked "☒" as shown in Figure 10.
- (2) Disconnect all wires from the P.C. Board.

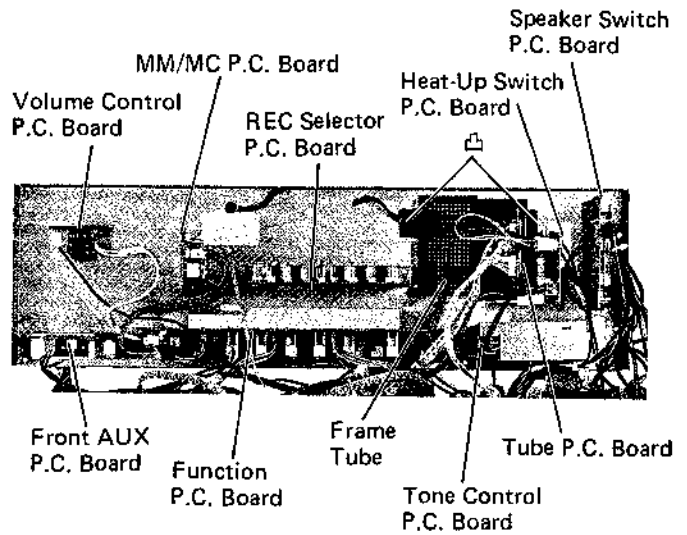


Figure 9

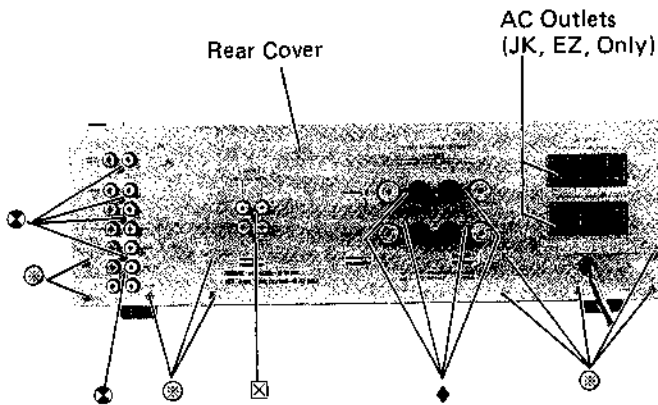


Figure 10

9. Removal of EQ P.C. Board

- (1) Remove ten screws marked "⊗" as shown in Figures 5, 8 and 10.
- (2) Disconnect all wires from the EQ 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.

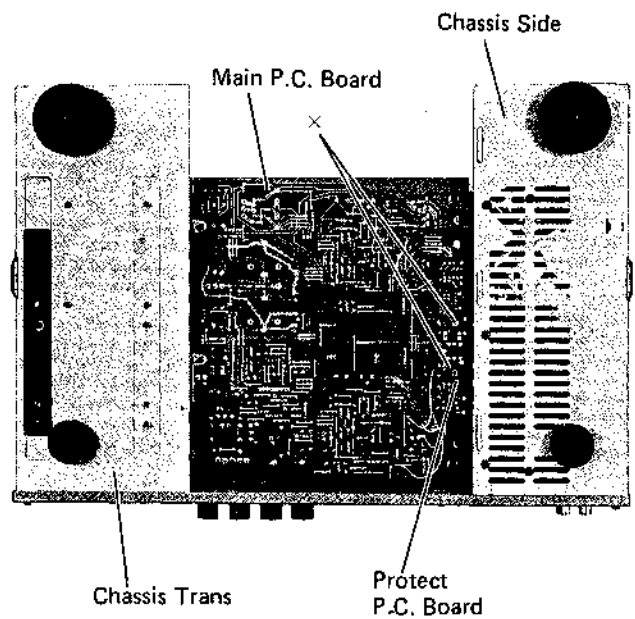


Figure 11

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

- (1) After removal of EQ P.C. Board, remove ten screws marked "⊗" as shown in Figure 10.
- (2) Disconnect all wires from the AC outlet.

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

- (1) After removal of EQ P.C. Board, remove one screw marked "◇" and one hook (e) 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.

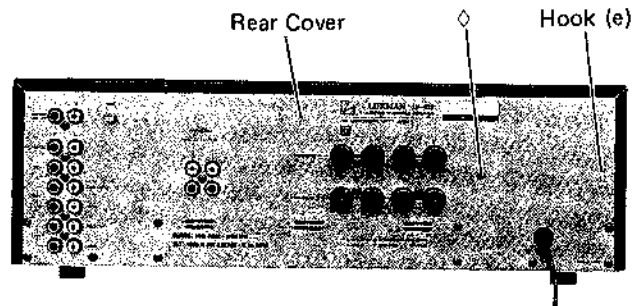


Figure 12

12. Removal of Protect P.C. Board

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

13. Removal of Main P.C. Board

- (1) After removal of EQ P.C. Board and rear cover, remove four screws marked "■" as shown in Figures 5 and 13.
- (2) Disconnect all wires from the Main P.C. Board.

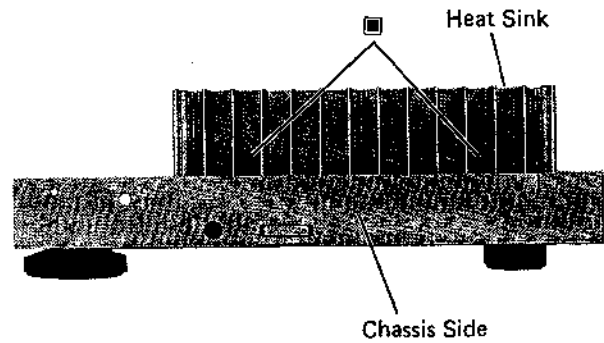


Figure 13

Adjustment Procedures

1. Connection

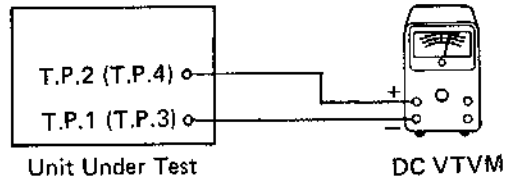


Figure 14

2. Control Setting

- Power Switch ON
- Volume Control Min (fully left)
- Treble Control Center
- Bass Control Center

- Balance Control Center
- Pre-heating Switch ON
- Others OFF

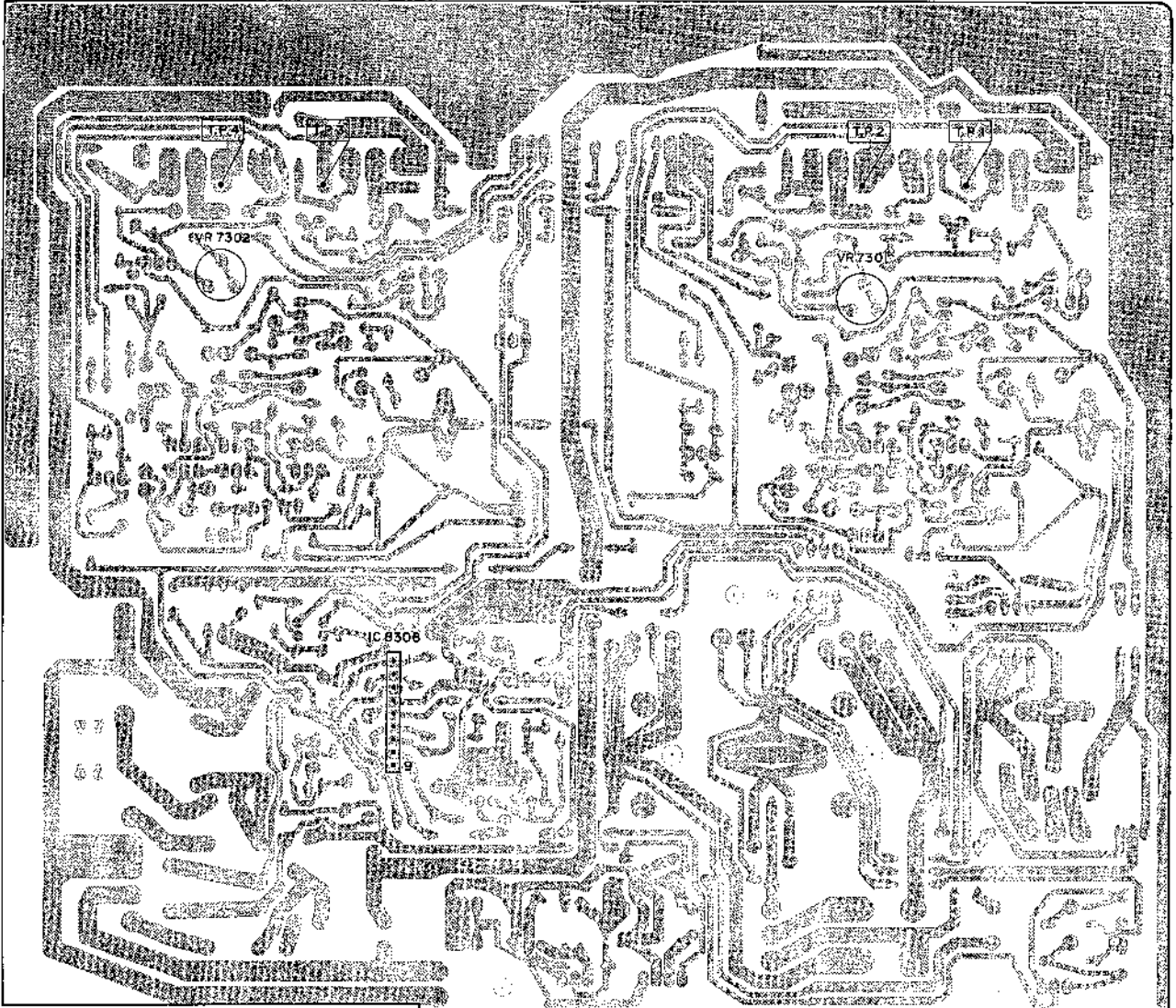
3. Adjustment

(1) Idle Current Adjustment

Adjust VR7301 (VR7302) so that voltage reading of 45mV is obtained between T.P.1 (T.P.3) – T.P.2 (T.P.4).

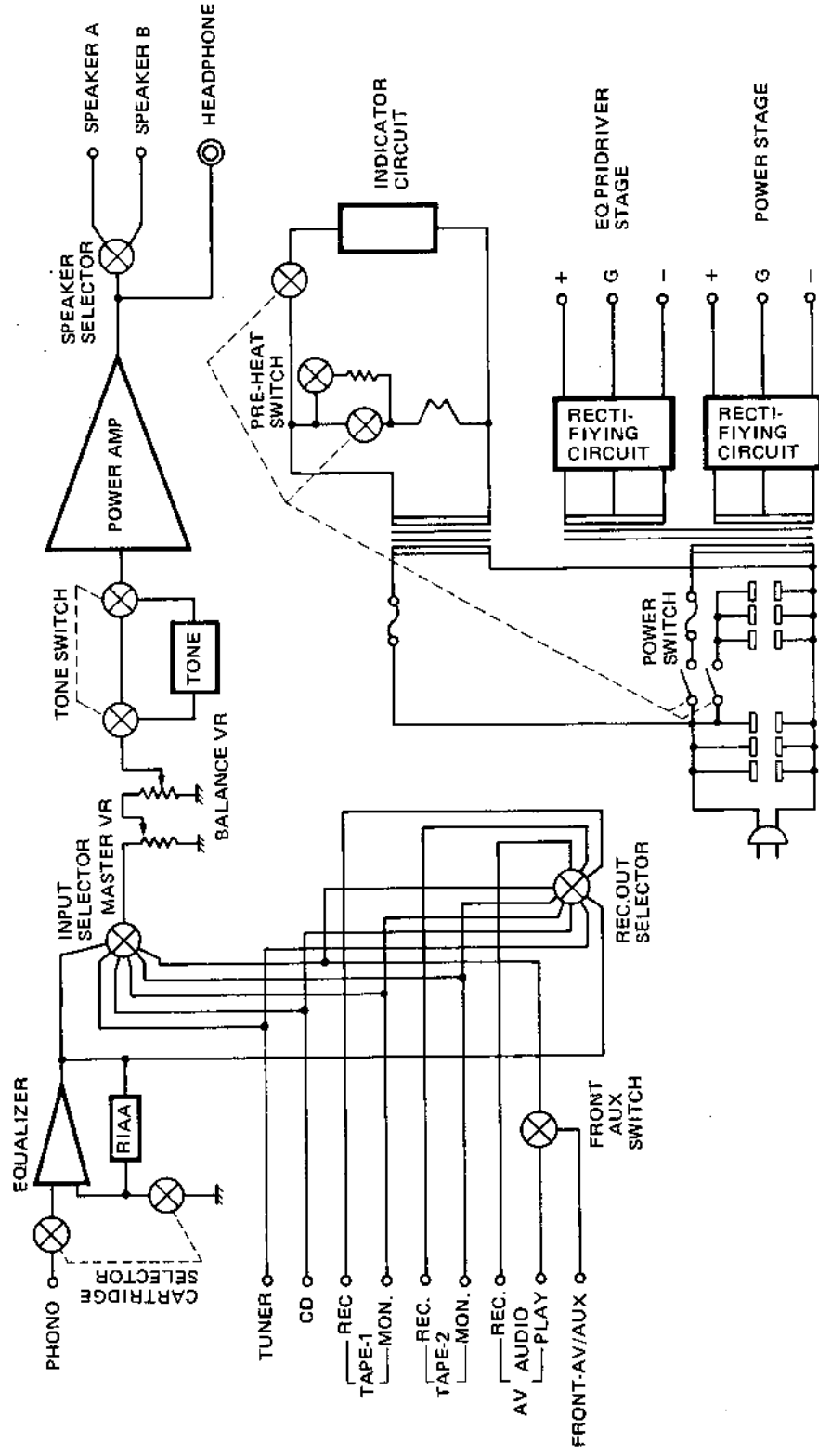
Note: This adjustment should be made 30 minutes after the power on (voltage variation stopped).

Adjustment Locations



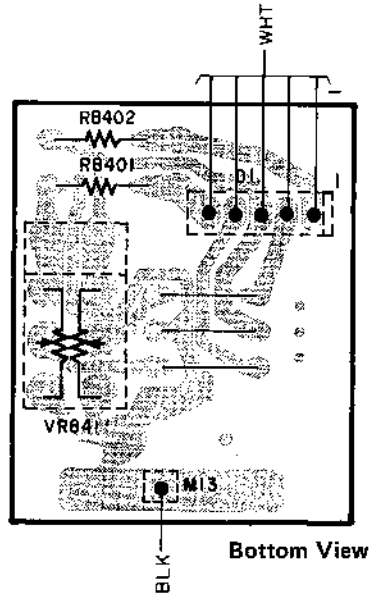
Main P.C. Board

Block Diagram

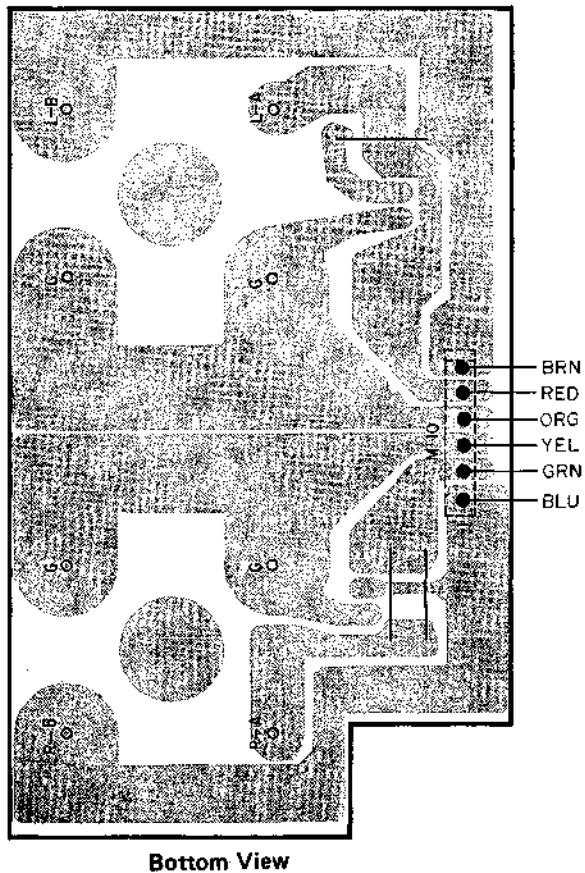


Parts Layout on P.C. Boards

● Volume Control P.C. Board



● Speaker Terminal P.C. Board

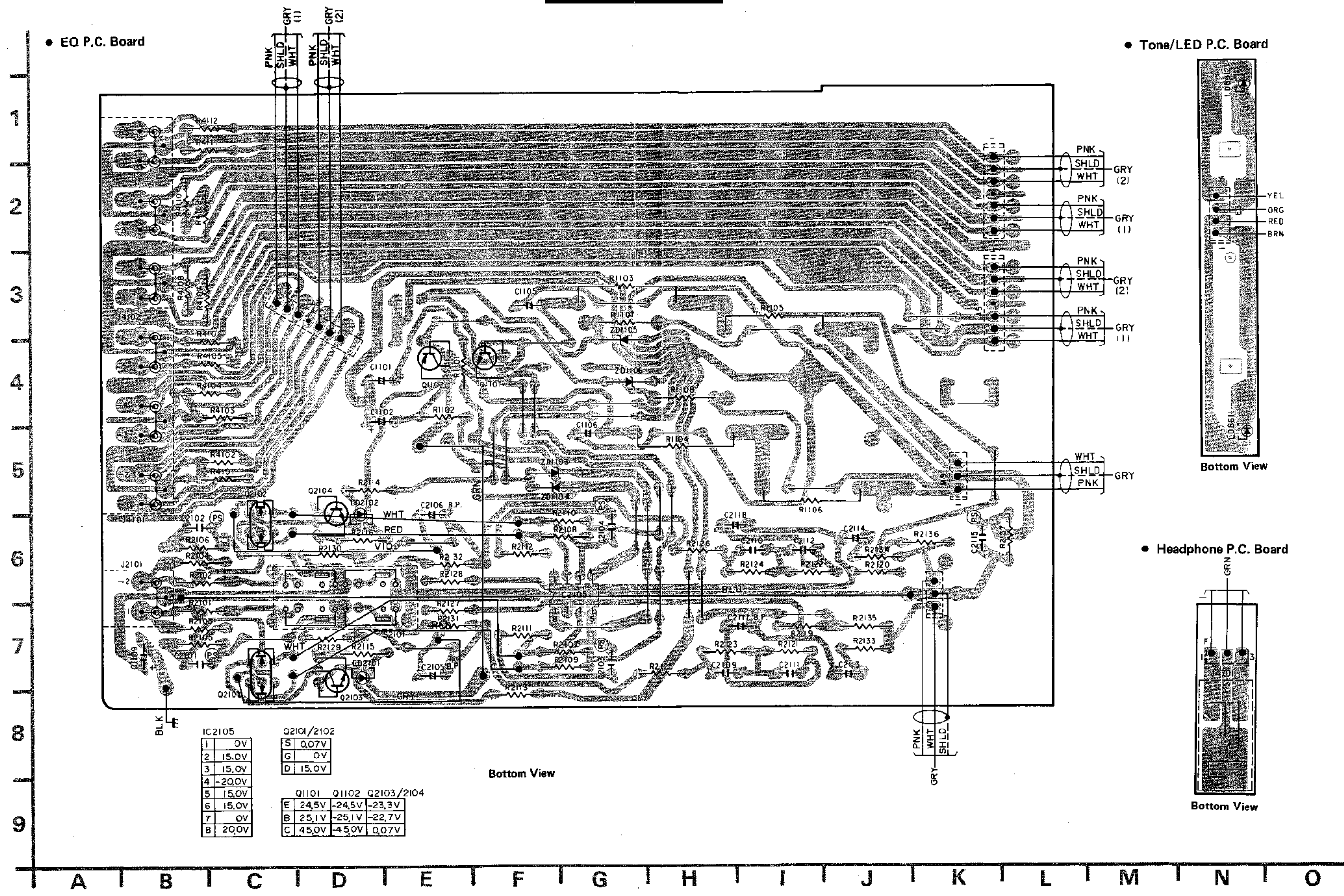


1
2
3
4
5
6
7
8
9

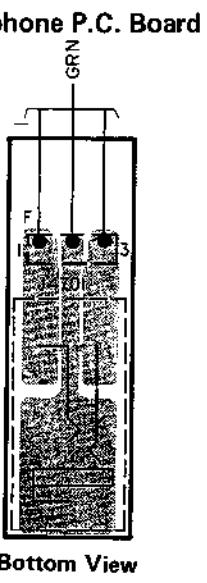
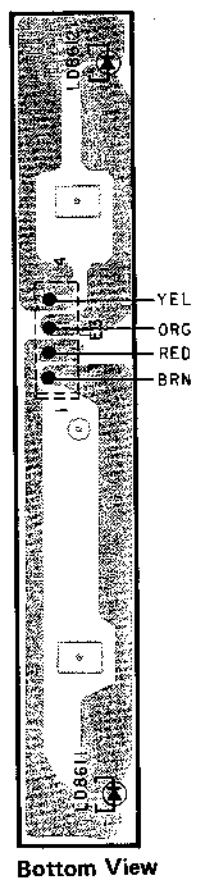
A | B | C | D | E | F | G

• EQ P.C. Board

• Tone/LED P.C. Board

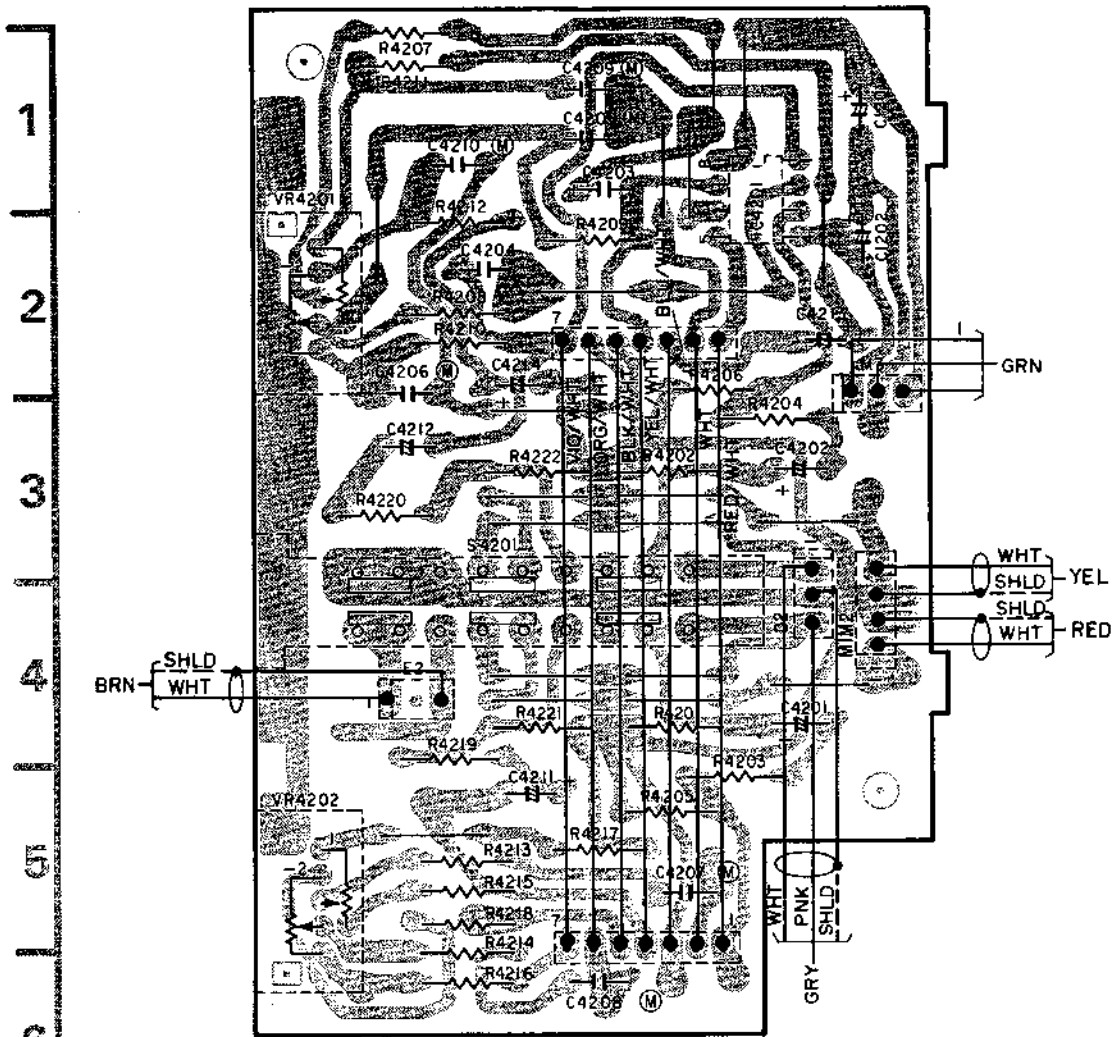


IC2105		Q2101/2102		Q1101 Q1102 Q2103/2104		
1	0V	S	0.07V	E	24.5V	-24.5V
2	15.0V	G	0V	B	25.1V	-25.1V
3	15.0V	D	15.0V	C	45.0V	-45.0V
4	-20.0V					0.07V
5	15.0V					
6	15.0V					
7	0V					
8	20.0V					



• Tone Control P.C. Board

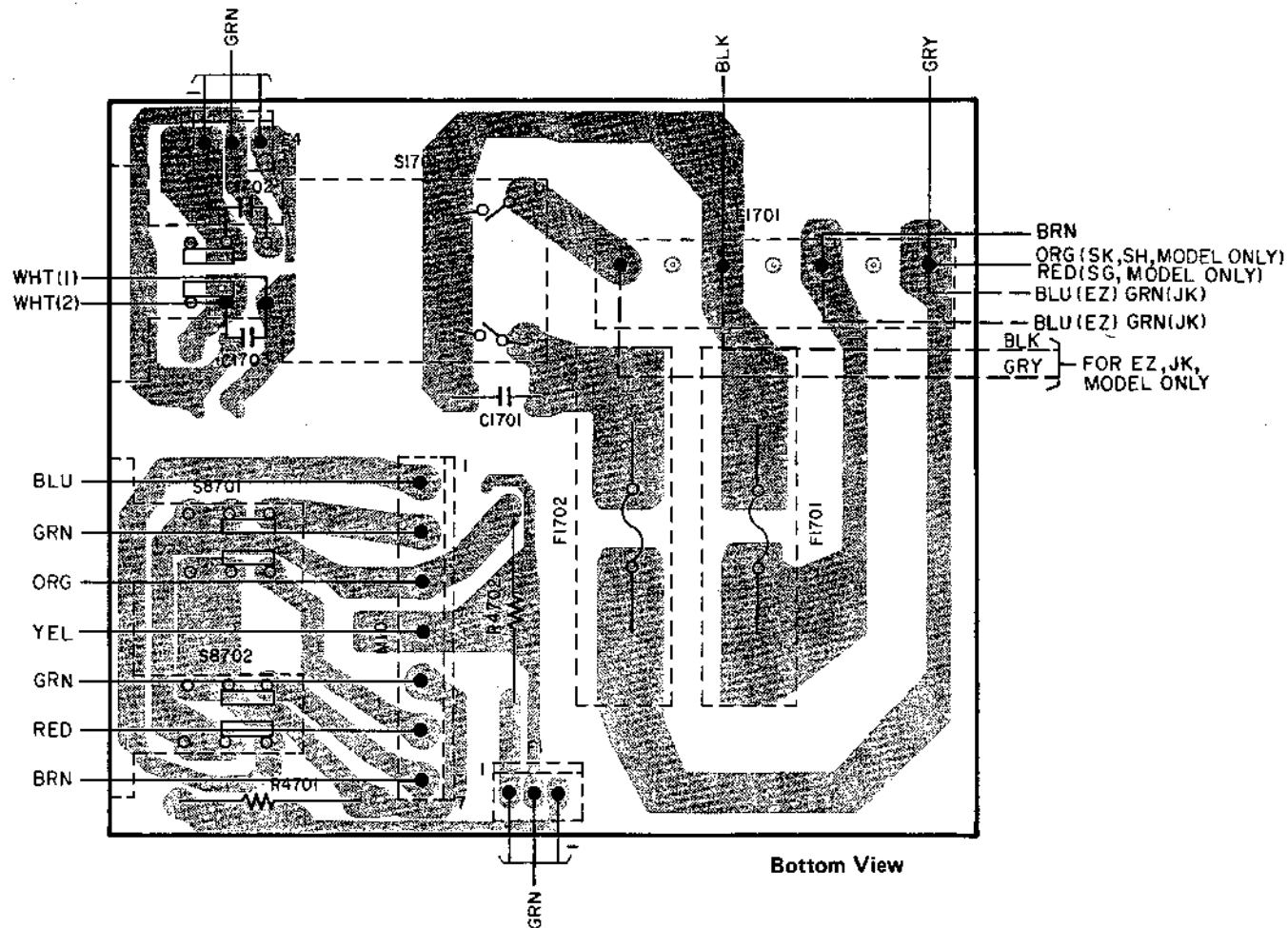
• Speaker/Switch P.C. Board



IC4201

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

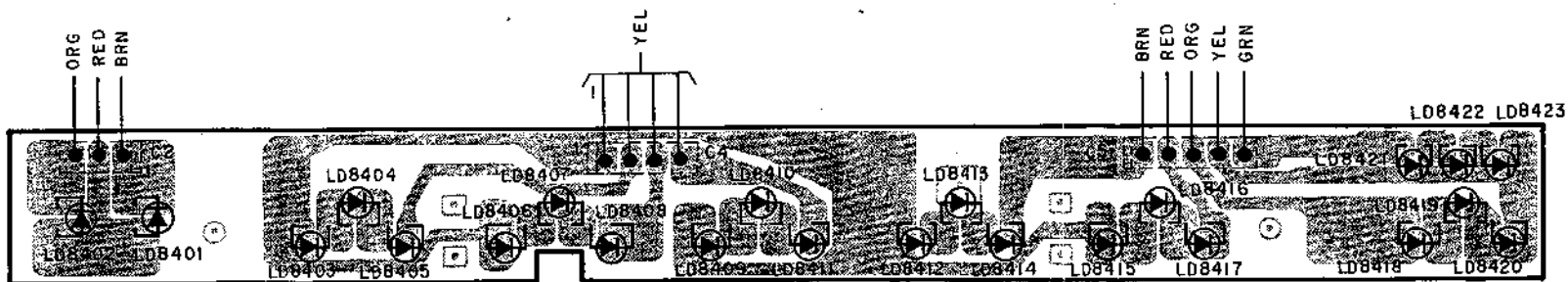
Bottom View



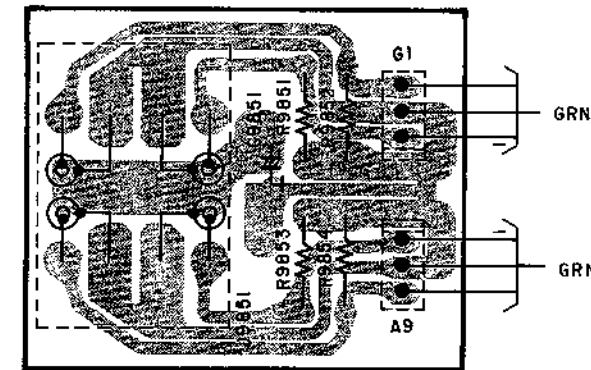
Bottom View

• Function/LED P.C. Board

• AV Monitor P.C. Board



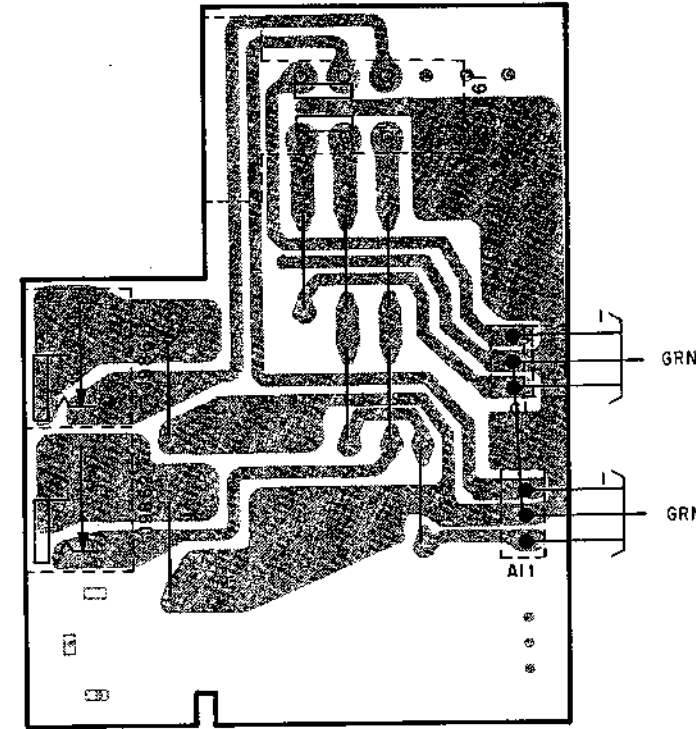
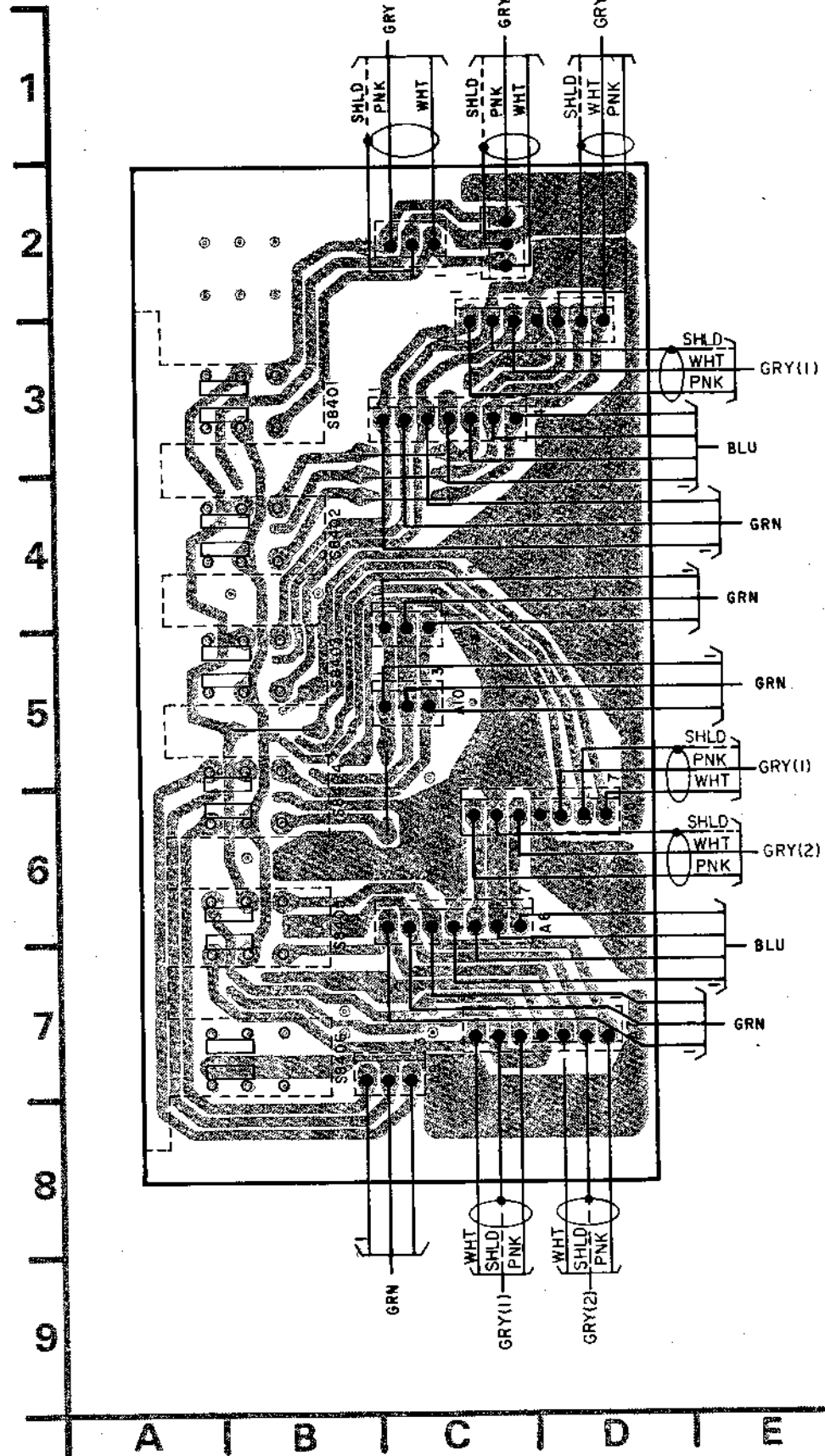
Bottom View



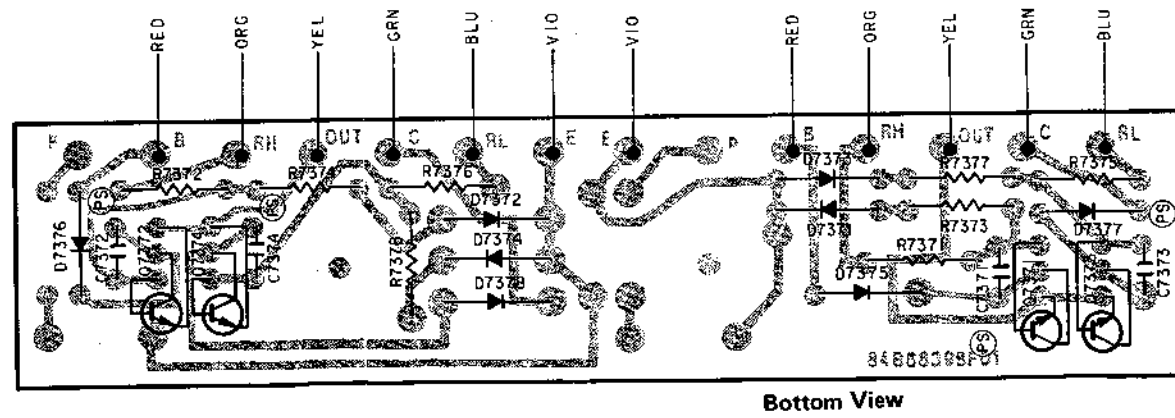
Bottom View

• REC Selector P.C. Board

• Front/Aux P.C. Board



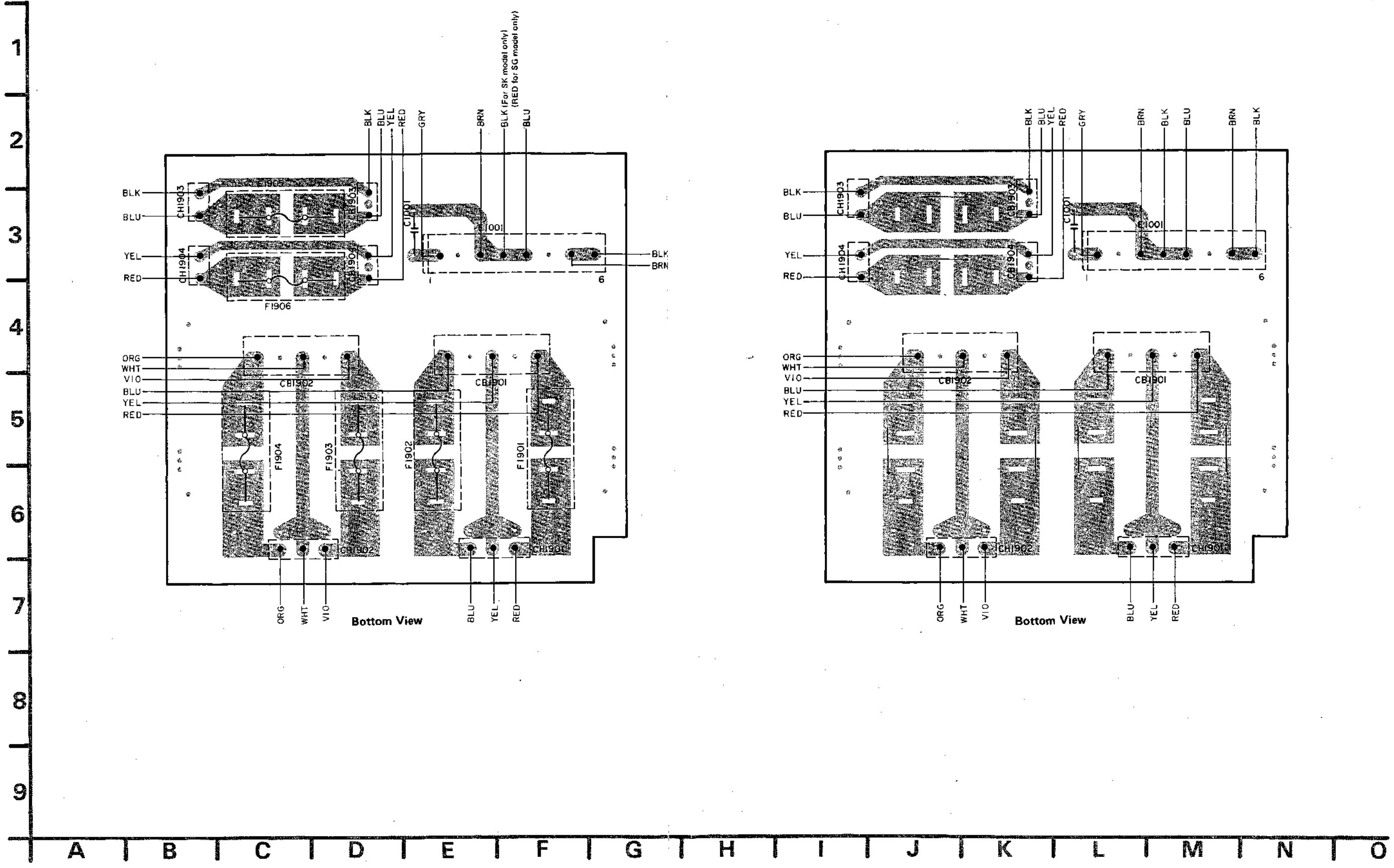
• Protect P.C. Board



Bottom View

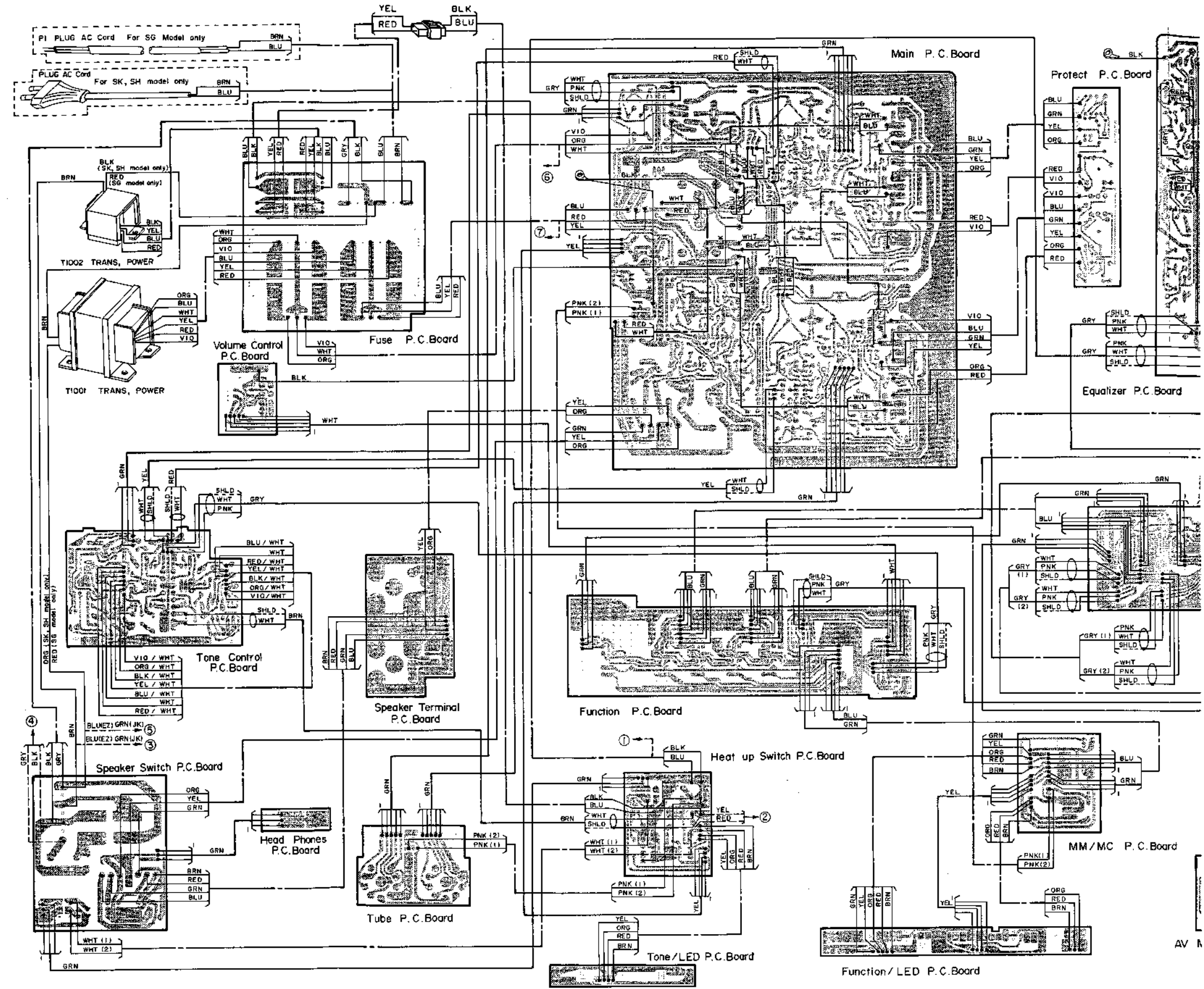
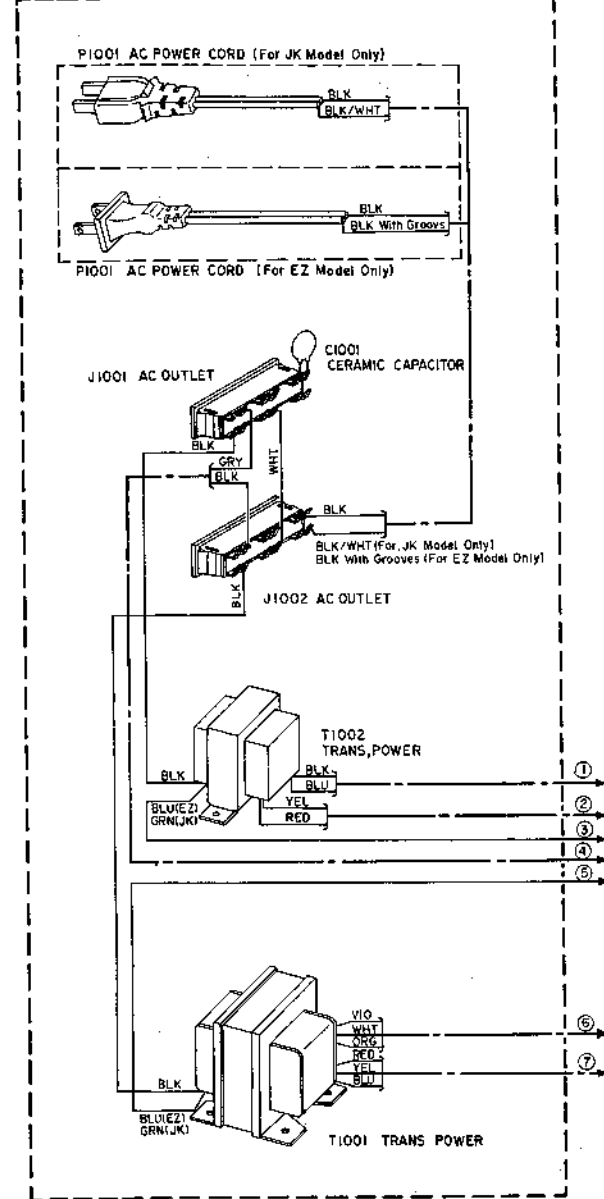
● Fuse P.C. Board (For SG, SK Model)

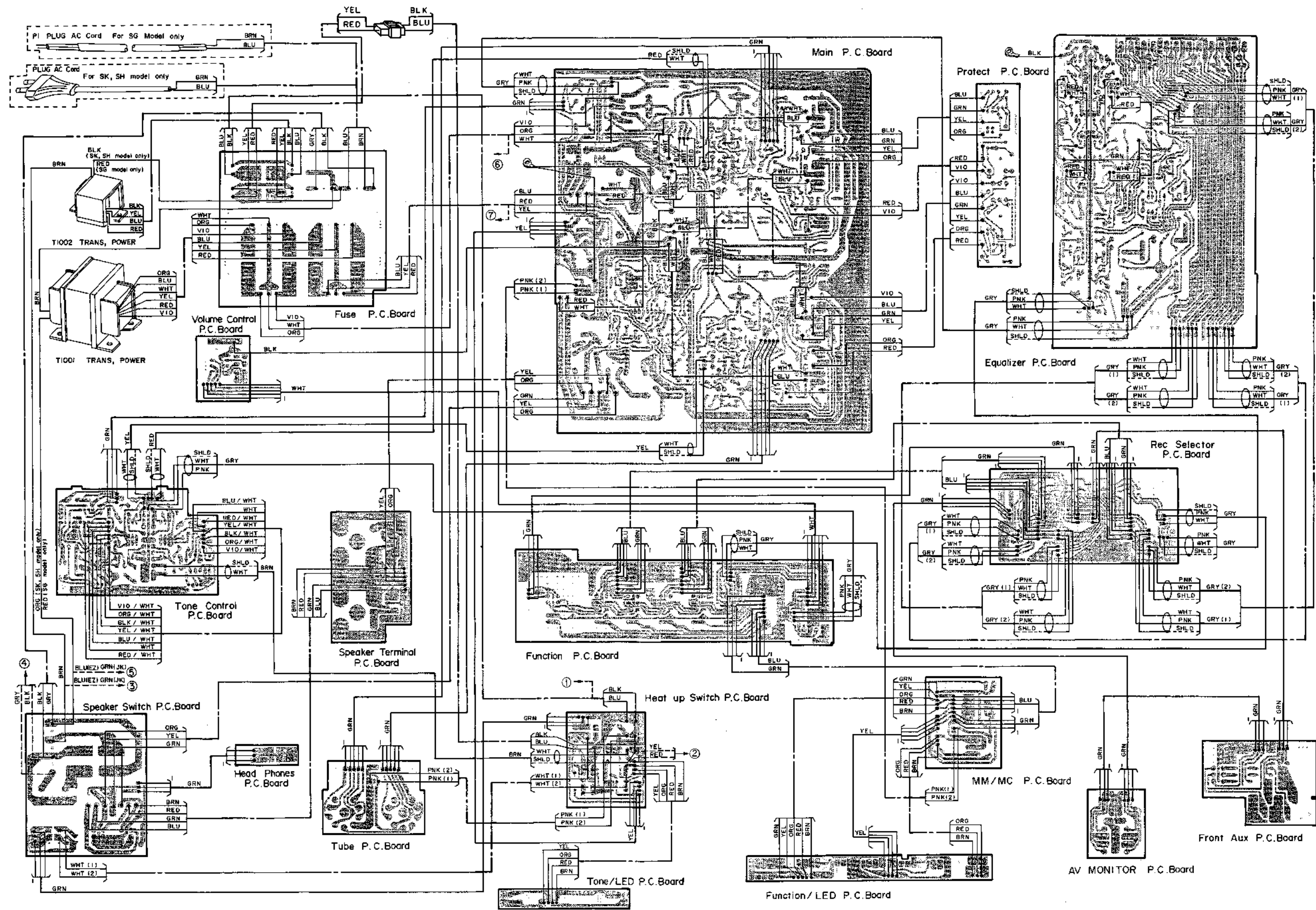
● Fuse P.C. Board (For SH Model)



Wiring Diagram

FOR EZ, JK, MODEL ONLY

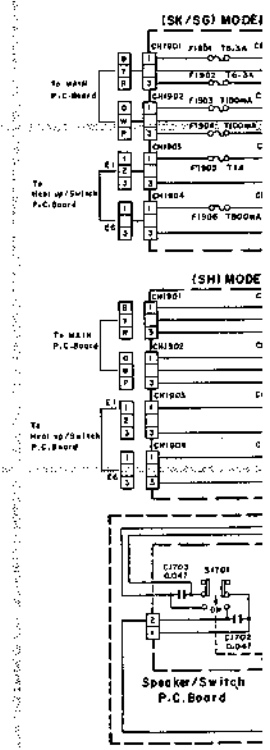
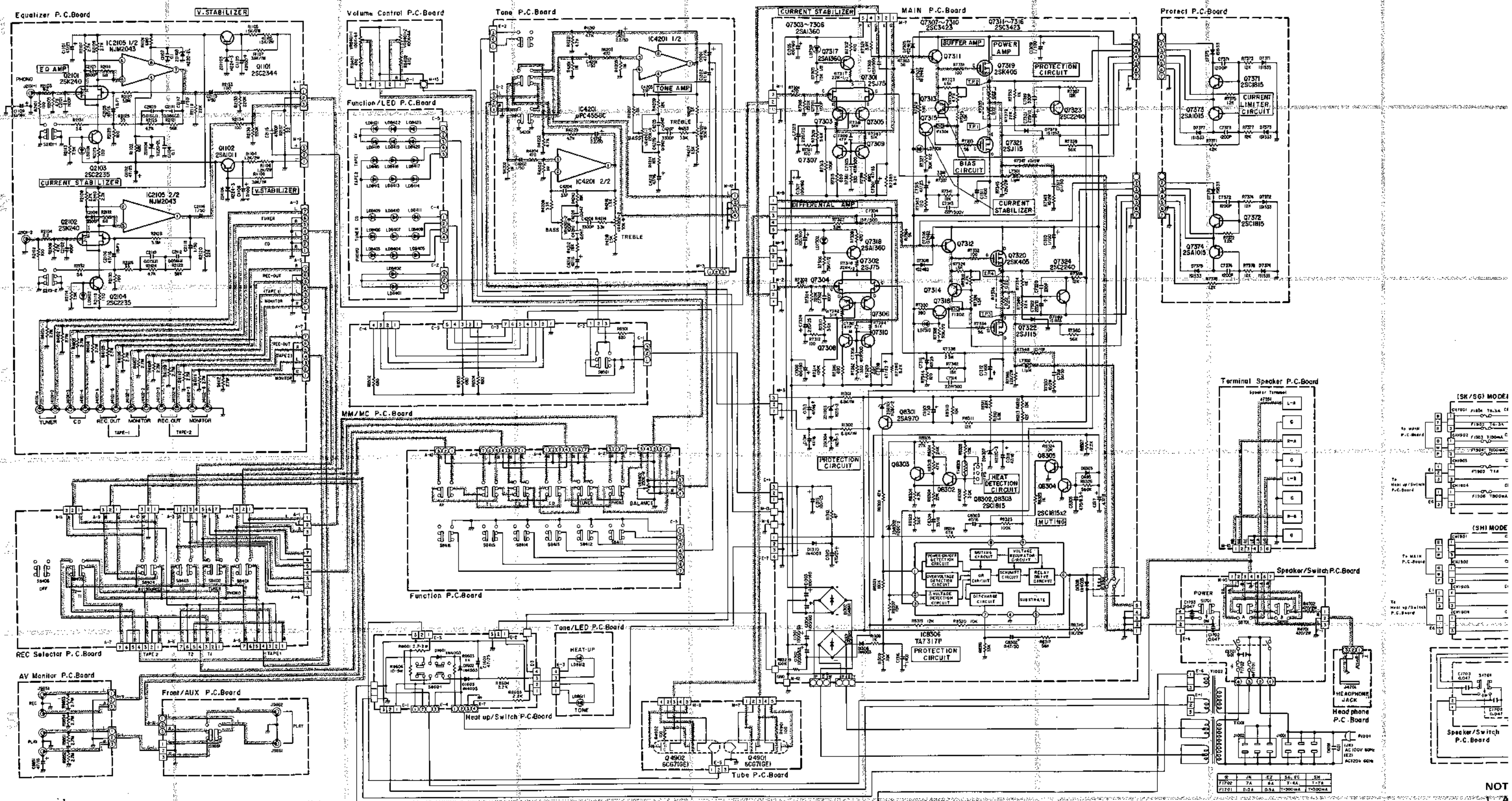




Model Only)

- ①
- ②
- ③
- ④
- ⑤
- ⑥
- ⑦

Schematic Diagram



NOT
1. A
2. A
3. V
a
n

Electrical Parts List

Resistors: Carbon resistors that 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		
IC2105	51T52153F01	NJM2043D-D
Transistors		
Q1101 or	48T64240F01 48T64240F02	2SC2344-E 2SC2344-D
Q1102 or	48T47145F01 48T47145F02	2SA1011-D 2SA1011-E
Q2101 or	48T60558F01 48T60558F02	FET, 2SK240-BL FET, 2SK240-V
Q2102 or	48T60558F01 48T60558F02	FET, 2SK240-BL FET, 2SK240-V
Q2103	48T51120F01	2SC2235-Y
Q2104	48T51120F01	2SC2235-Y
Diodes/LEDs		
LD2101	48T60947F05	LED, SLH-34VR3F (RED)
LD2102	48T60947F05	LED, SLH-34VR3F (RED)
ZD1103	48T52741F56	Zener, HZ20-2L
ZD1104	48T52741F56	Zener, HZ20-2L
ZD1105 or	48T52739F93 48T56372F77	Zener, HZ24-3 Zener, RD27E-B1
ZD1106 or	48T52739F93 48T56372F77	Zener, HZ24-3 Zener, RD27E-B1
Jacks/Switch		
J2101	09T67403F01	Plate, Phone Jack
J4101	09T67404F01	Plate, Phono Jack (Tuner, CD)
J4102	09T67404F01	Plate, Phono Jack (Tape 1, Tape 2)
S2101	40T57372F01	Switch, Slide SSR (2435) Cartridge

Symbol No.	Part No.	Description
Capacitors		
C1101	23S40657F20	Electrolytic 47 uF/25V
C1102	23S40657F20	Electrolytic 47 uF/25V
C1105	23S41198U32	Electrolytic 47 uF/100V
C1106	23S41198U32	Electrolytic 47 uF/100V
C1107	08T57851F13	TF 0.1 uF
C1108	08T57851F13	TF 0.1 uF
C2101	08T67344F01	Polystyrol 100 pF
C2102	08T67344F01	Polystyrol 100 pF
C2103	08T67344F37	Polystyrol 3300 pF
C2104	08T67344F37	Polystyrol 3300 pF
C2105	23T43197F09	Electrolytic 47 uF/16V
C2106	23T43197F09	Electrolytic 47 uF/16V
C2109	08T68632F15	Polyester 0.015 uF
C2110	08T68632F15	Polyester 0.015 uF
C2111	08T68632F22	Polyester 0.056 uF
C2112	08T68632F22	Polyester 0.056 uF
C2113	23T61177F08	Electrolytic (BP) 1 uF/50V
C2114	23T61177F08	Electrolytic (BP) 1 uF/50V
C2115	08T67344F41	Polystyrol 4700 pF
C2117	23T61177F08	Electrolytic (BP) 1 uF/50V
C2118	23T61177F08	Electrolytic (BP) 1 uF/50V
Resistors		
R1103 or	06T00007L69 06T55179F69	Metal Film 1.5K ohm 2W Metal Film 1.5K ohm 2W
R1104 or	06T00007L67 06T55179F67	Metal Film 1.2K ohm 2W Metal Film 1.2K ohm 2W
R1105 or	06T00007L69 06T55179F69	Metal Film 1.5K ohm 2W Metal Film 1.5K ohm 2W
R1106 or	06T00007L67 06T55179F67	Metal Film 1.2K ohm 2W Metal Film 1.2K ohm 2W
R1107 or	06T00006L04 06T55178F04	Metal Film 39K ohm 1W Metal Film 39K ohm 1W
R1108 or	06T00006L04 06T55178F04	Metal Film 39K ohm 1W Metal Film 39K ohm 1W
R2101	06T00013L41	Carbon Film 100 ohm 1/3W
R2102	06T00013L41	Carbon Film 100 ohm 1/3W
R2103	06T00013L15	Carbon Film 8.2 ohm 1/3W
R2104	06T00013L15	Carbon Film 8.2 ohm 1/3W
R2105	06T00014L06	Carbon Film 47K ohm 1/3W

Symbol No.	Part No.	Description
R2106	06T00014L06	Carbon Film 47K ohm 1/3W
R2129	06T00013L41	Carbon Film 100 ohm 1/3W
R2130	06T00013L41	Carbon Film 100 ohm 1/3W
R2131	06T00013L11	Carbon Film 5.6 ohm 1/3W
R2132	06T00013L11	Carbon Film 5.6 ohm 1/3W
R4103	06T00014L48	Carbon Film 2.7M ohm 1/3W
R4104	06T00014L48	Carbon Film 2.7M ohm 1/3W
Head Up Switch P.C. Board		
Diodes/Switch		
D1601	48S40477U01	Diode, 1N4003
D1602	48S40477U01	Diode, 1N4003
D1603	48S40477U01	Diode, 1N4003
S8601	40T67389F01	Switch, Push, SUL121S (Pre-heating)
Capacitor/Resistors		
C1601	23S40657F20	Cap., Electrolytic 47 uF/25V
R8601	06T00007L03	Res., Metal Film 2.7 ohm 2W
R8606	06T60132F01	Res., Cement 10 ohm 5W
Speaker Switch P.C. Board		
Fuses/Switch		
○ F1701	65T52486F13	Fuse, MF61M6 0.5A-250V
■	65T42077U13	Fuse, Semko T-500mA
▲	65T42077U13	Fuse, Semko T-500mA
●	65T55050F05	Fuse, MF60NR 0.5A-125V
★		
○ F1702	65T52486F41	Fuse, CS61M6 6A-125V
■	65T42077U22	Fuse, Semko T-4A
▲	65T42077U22	Fuse, Semko T-4A
●	65T55050F18	Fuse, NR60 7A-125V
★		
■ D1701	40T68579F01	Switch, Push SDU3P-E
▲	40T68579F01	Switch, Push SDU3P-E
★	40T68579F01	Switch, Push SDU3P-E
●	40T61693F02	Switch, Push SDU4P (Power)
○	40T61693F02	Switch, Push SDU4P

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
S8701	40T67388F01	Switch, Push (Speaker A)
S8702	40T67388F01	Switch, Push (Speaker B)
Capacitors/Resistors		
C1701	08T57437F09	Cap., DE7150 FZ 0.01 uF
C1702	21C45322G33	Cap., Ceramic, 0.047 uF
C1703	21C45322G33	Cap., Ceramic, 0.047 uF
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
Tone P.C. Board		
IC/Switch		
IC4201	51T62647F01	NJM082D
S4201	40T61986F01	Switch, Push 122A (Tone in)
Capacitors/Volumes		
C1201	23S40657F13	Electrolytic 47 uF/16V
C1202	23S40657F13	Electrolytic 47 uF/16V
C4201	23T42478F24	Electrolytic 1 uF/50V
C4202	23T42478F24	Electrolytic 1 uF/50V
C4203	21S40655F17	Ceramic 33 pF
C4204	21S40655F17	Ceramic 33 pF
C4205	08S40656F21	Mylar 0.047 uF
C4206	08S40656F21	Mylar 0.047 uF
C4207	08S40656F07	Mylar 3300 pF
C4208	08S40656F07	Mylar 3300 pF
C4209	08S40656F21	Mylar 0.047 uF
C4210	08S40656F21	Mylar 0.047 uF
C4211	23T58711F31	Electrolytic 2.2 uF/50V
C4212	23T58711F31	Electrolytic 2.2 uF/50V
C4213	23S40657F13	Electrolytic 47 uF/16V
C4214	23S40657F13	Electrolytic 47 uF/16V
VR4201	18T67394F01	Variable Resistor K122G 100K ohm (Bass)
VR4202	18T67395F01	Variable Resistor K122G 50K ohm (Treble)
Main P.C. Board		
IC		
IC8306	51T67437F01	TA7317P

Symbol No.	Part No.	Description
Transistors		
Q7301	48T62284F01	FET, 2SJ75-BL
Q7302	48T62284F01	FET, 2SJ75-BL
Q7303	48T64375F01	2SA1360-O, Y
Q7304	48T64375F01	2SA1360-O, Y
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
Q8302	48S43525F05	2SC1815-Y
Q8303	48S43525F05	2SC1815-Y
Q8304	48S43525F05	2SC1815-Y
Q8305	48S43525F05	2SC1815-Y
Relay/Thermister		
RL8301	80T58612F01	Relay, G2Z-222P-US-24
TH8301	48T67436F01	Thermistor, NB320UASZ
Coils		
L7301	24T67516F02	Choke, 1.1 μ H
L7302	24T67516F02	Choke, 1.1 μ H

Symbol No.	Part No.	Description
Fuses		
F1301	48T68756F01	IC, Protector
F1302	48T68756F01	IC, Protector
Diodes/LED		
D1301	48T67435F01	Bridge, D5FB20
D1302	48T61415F03	Bridge, 1G4B41
D1306	48S40477U01	1N4003
D1308	48S40477U01	1N4003
D1310	48S40477U01	1N4003
D7305	48T52198F01	1S2462
D7306	48T52198F01	1S2462
D7307	48T52198F01	1S2462
D7308	48T52198F01	1S2462
D8303	48T43982F01	GEOA95
ZD1303	48T52739F78	Zener, HZ15-3
or	48T56372F59	Zener, RD16E-B1
ZD1304	48T52739F78	Zener, HZ15-3
or	48T56372F59	Zener, RD16E-B1
ZD1307	48T52740F09	Zener, HZ12C-3
or	48T56372F57	Zener, RD15E-B2
ZD7303	48T40150U10	Zener, HZ4A-1
ZD7304	48T40150U10	Zener, HZ4A-1
ZD8301	48T52739F41	Zener, HZ6C-2
or	48T56372F29	Zener, RD6.2E-B2
ZD8302	48T52739F41	Zener, HZ6C-2
or	48T56372F29	Zener, RD6.2E-B2
LD7301	48T60947F05	LED, SLH-34VR3F (RED)
LD7302	48T60947F05	LED, SLH-34VR3F (RED)
LD7309	48T60947F05	LED, SLH-34VR3F (RED)
LD7310	48T60947F05	LED, SLH-34VR3F (RED)
Capacitors		
C1301	23T67401F01	Electrolytic 1000 μ F/63V
C1302	23T67401F01	Electrolytic 1000 μ F/63V
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 uF/100V
C1312	23S40657F45	Electrolytic 1 uF/100V
C1313	23S40657F13	Electrolytic 47 uF/16V
C1314	23S40657F13	Electrolytic 47 uF/16V
C1315	23S40657F21	Electrolytic 100 uF/25V
C1316	23S40657F45	Electrolytic 1 uF/100V
C1317	23S41059P18	Tantalum 4.7 uF/16V
C1318	23S40657F13	Electrolytic 47 uF/16V
C1320	23S41198U57	Electrolytic 470 uF/25V
C7301	08T67344F01	Polystyrol 100 pF
C7302	08T67344F01	Polystyrol 100 pF
C7303	08T61642F08	Mica 15 pF/500V
C7304	08T61642F08	Mica 15 pF/500V
C7305	08T61642F20	Mica 47 pF/500V
C7306	08T61642F20	Mica 47 pF/500V
C7307	23S41198U31	Electrolytic 47 uF/63V
C7308	23S41198U31	Electrolytic 47 uF/63V
C7309	08T61642F20	Mylar 47 pF
C7310	08T61642F20	Mylar 47 pF
C7313	08T61642F12	Mica 22 pF/500V
C7314	08T61642F12	Mica 22 pF/500V
C7315	23T43197F49	Electrolytic 47 uF/25V
C7316	23T43197F49	Electrolytic 47 uF/25V
C7317	08T64568F25	Mylar 0.1 uF/50V
C7318	08T64568F25	Mylar 0.1 uF/50V
C7319	08T44481F01	Polypropylene 330 pF
C7320	08T44481F01	Polypropylene 330 pF
C7321	23S41198U41	Electrolytic 220 uF/16V
C7322	23S41198U41	Electrolytic 220 uF/16V
C7323	23S41198U41	Electrolytic 220 uF/16V
C7324	23S41198U41	Electrolytic 220 uF/16V
C8301	23S40657F28	Electrolytic 1 uF/50V
C8302	23S40657F27	Electrolytic 0.47 uF/50V
C8303	23S40657F13	Electrolytic 47 uF/16V
C8304	23T42477F38	Electrolytic (BP) 33 uF/16V
C8305	23S40657F50	Electrolytic 470 uF/6.3V
Resistors		
R1301	06T00005F85	Metal Film 6.8K ohm 1W
R1302	06T00005F85	Metal Film 6.8K ohm 1W
R7301	06T00013L57	FTR, 470 ohm 1/3W
R7302	06T00013L57	FTR, 470 ohm 1/3W
R7303	06T00014L22	FTR, 220K ohm 1/3W

Symbol No.	Part No.	Description
R7304	06T00014L22	FTR, 220K ohm 1/3W
R7305	06T00018L11	Carbon Film 75K ohm 1/2W
R7306	06T00018L11	Carbon Film 75K ohm 1/2W
R7309	06T00017L92	Carbon Film 22K ohm 1/2W
R7310	06T00017L92	Carbon Film 22K ohm 1/2W
R7327	06T00018L01	Carbon Film 30K ohm 1/2W
R7328	06T00018L01	Carbon Film 30K ohm 1/2W
R7335	06T67397F01	MPC725 0.22 ohm x 2 5W
R7336	06T67397F01	MCP725 0.22 ohm x 2 5W
R7343	06T00013L43	FTR, 120 ohm 1/3W
R7344	06T00013L43	FTR, 120 ohm 1/3W
R7345	06T00007L67	Metal Film 1.2K ohm 2W
or	06T55179F67	Metal Film 1.2K ohm 2W
R7346	06T00007L67	Metal Film 1.2K ohm 2W
or	06T55179F67	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
or	06T55177F17	Metal Film 10 ohm 1W
R7350	06T00007L17	Metal Film 10 ohm 2W
or	06T55179F17	Metal Film 10 ohm 1W
R8315	06T00007L65	Metal Film 1K ohm 2W
or	06T55179F65	Metal Film 1K ohm 2W
VR7301	18C41732G03	Variable 4.7K ohm
VR7302	18C41732G03	Variable 4.7K 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)
Q7374	48T51118F02	2SA1015-GR
or	48T40081T03	2SA733 (P)

Symbol No.	Part No.	Description
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
D7379 or or	48T51117F01 48T52198F01 48T52198F02	1S1553 1S2462 1S2463
D7380 or or	48T51117F01 48T52198F01 48T52198F02	1S1553 1S2462 1S2463
Capacitors		
C7371	08T42081U27	Polystyrol 1200 pF
C7372	08T42081U27	Polystyrol 1200 pF
C7373	08T42081U27	Polystyrol 1200 pF
C7374	08T42081U27	Polystyrol 1200 pF
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 (Phono) (GRN)
LD8404	48T60947F04	LED, SLH-34MG3F (Phono) (GRN)
LD8405	48T60947F04	LED, SLH-34MG3F (Phono) (GRN)

Symbol No.	Part No.	Description
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 (AV/AUX) (GRN)
LD8419	48T60947F04	LED, SLH-34MG3F (AV/AUX) (GRN)
LD8420	48T60947F04	LED, SLH-34MG3F (AV/AUX) (GRN)
LD8421	48T60947F05	LED, SLH-34VR3F (AV) (RED)
LD8422	48T60947F05	LED, SLH-34VR3F (AV) (RED)
LD8423	48T60947F05	LED, SLH-34VR3F (AV) (RED)
Function P.C. Board		
Switches		
S8411 2 S8416	40T67385F01	Switch, Push SUL602A (Phono, Tuner, CD, Tape 2, Tape 1, AV/AUX)

Symbol No.	Part No.	Description
Volume		
VR8402	18T67392F01	K121MO 250K ohm (Balance)
PCMM/MC P.C. Board		
Switch		
S8501	40T67441F01	Push, SUFR512 (Cartridge)
AV Monitor P.C. Board		
Jack		
J9851	09T67472F01	Plate, Phono Jack
Capacitor		
C9851	23S41198U27	Electrolytic 47 uF/16V
Front AUX P.C. Board		
Jacks/Switch		
J9861	09T67396F01	Plate Phono Jack (Front AV/AUX Audio)
J9862	09T67396F01	Plate Phono Jack (Front AV/AUX Audio)
S9861	40T67536F01	Switch Push SUL121A (Front AV/AUX Rear, Front)
Fuse P.C. Board		
Capacitors/Fuses		
■ 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

Symbol No.	Part No.	Description
■ 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 Parts		
○ J1001	09T67405F02	Outlet, AC
○ J1002	09T67405F02	Outlet, AC
J4701	09T66672F01	Jack, Headphone (Slim)
○ Q4901	65T00091L01	Tube, 6CG7GE
■ Q4901	65T00091L01	Tube, 6CG7GE
▲ Q4901	65T00091L01	Tube, 6CG7GE
★ Q4901	65T00091L01	Tube, 6CG7GE
○ Q4902	65T00091L01	Tube, 6CG7GE
■ Q4902	65T00091L01	Tube, 6CG7GE
▲ Q4902	65T00091L01	Tube, 6CG7GE
★ Q4902	65T00091L01	Tube, 6CG7GE
J7351	09T60544F01	Terminal, Speaker
LD8611	48T60947F05	LED, SLH-34VR3F (RED)
LD8612	48T60947F05	LED, SLH-34VR3F (RED)
○ P1001	28T55335F01	Plug, AC Cord
■ P1001	28T43812P02	Plug, AC Cord
▲ P1001	28T68132F01	Plug, AC Cord
★ P1001	28T43812P02	Plug, AC Cord
● P1001	28T67434F01	Plug, AC Cord
● Q4901	65T00091L03	Tube (6CG7GE)
● Q4902	65T00091L03	Tube (6CG7GE)
R8401	06T00013L57	Resistor, FTR, 470 ohm 1/3W
R8402	06T00013L57	Resistor, FTR, 470 ohm 1/3W
S8401	40T67386F01	Switch, Push (Phono, Tuner, CD, AV/AUX, Tape Dubbing 2-1, OFF)
?		
S8406		
○ T1001	25T69009F01	Transformer, Power
■ T1001	25T68577F01	Transformer, Power
▲ T1001	25T70938F01	Transformer, Power
★ T1001	25T68577F01	Transformer, Power
● T1001	23T67381F01	Transformer, Power

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	Symbol No.	Part No.	Description
○ T1002	25T68578F03	Transformer, Power			
■ T1002	25T68578F01	Transformer, Power			
▲ T1002	25T68578F05	Transformer, Power			
★ T1002	25T68578F01	Transformer, Power			
VR8401	18T67393F01	Variable Resistor, K162BO 100KAA			
● T1002	25T68578F02	Transformer, Power			
★ C1001	08T57437F09	Cap., Ceramic 0.01 uF			
● C1001	08T57437F09	Cap., Ceramic 0.01 uF			
○ C1001	08T57437F09	Cap., Ceramic 0.01 uF			
● J1001	09T67405F01	Outlet, AC			
● J1002	09T67405F01	Outlet, AC			

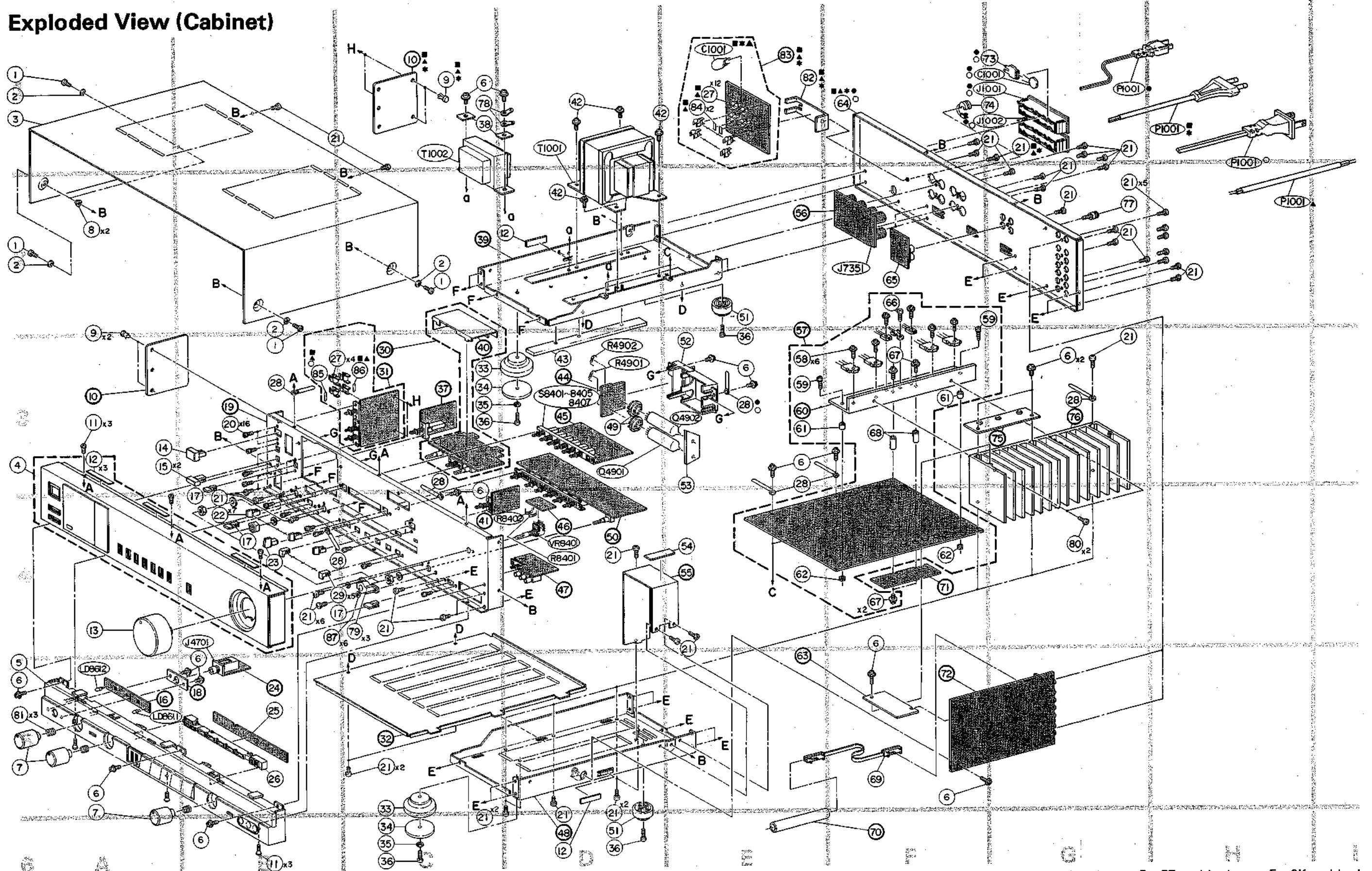
Note: ● : For JK model only, ○ : For EZ model only, ■ : For SK model only,
▲ : For SG model only, ★ : For SH model only, Others: Common

* The parts whose parts numbers are not entered will not be supplied.

Sym- bol No.	Description	POWER SOURCE				
		● JK 100V	○ EZ 120V	■ SK 220V	▲ SG 240V	★ SH 220V
		Korea	Taiwan	West Germany	England/ Australia	Hong Kong
9	Rivet, Push	Not Used	Not Used	05B41635J04	05B41635J04	05B41635J04
10	Shield, Power Switch	Not Used	Not Used	※	※	※
21	Screw, Tapping (M3 x 8)	Not Used	Not Used	03S40012G93	03S40012G93	03S40012G93
27	Holder, Fuse (SEMKO)	Not Used	Not Used	※	※	Not Used
28	Lug, Wrap	Not Used	Not Used	29C41045P05	29C41045P05	29C41045P05
64	Cover, Rear	15C67324F03	15C67324F03	15C67324F04	15C67324F04	15C67324F04
82	Bracket, Fuse P.C. Board	Not Used	Not Used	07A69038F01	07A69038F01	07A69038F01
83	Assembly, Fuse P.C. Board	Not Used	Not Used	※	※	Not Used
83	Fuse P.C. Board	Not Used	Not Used	Not Used	Not Used	※
84	Label, Fuse T6.3A	Not Used	Not Used	54B62266F41	54B62266F41	Not Used
85	Label, Fuse	Not Used	54B62266F06	54B62266F30	54B62266F30	Not Used
86	Label, Fuse T500mA	Not Used	Not Used	54B62266F31	54B62266F31	Not Used
T1001	Transformer, Power	Not Used	25T69009F01	25T68577F01	25T70938F01	25T68577F01
T1002	Transformer, Power	Not Used	25T68578F03	25T68578F01	25T68578F05	25T68578F01
P1001	Plug, AC Cord	Not Used	28T55335F01	28T43812P02	28T68132F01	28T43812P02
J1001	Outlet, AC	Not Used	09T67405F02	Not Used	Not Used	Not Used
J1002	Outlet, AC	Not Used	09T67405F02	Not Used	Not Used	Not Used
Q4901	Tube, 6CG7	65T00091L01	65T00091L01	65T00091L01	65T00091L01	65T00091L01
Q4902	Tube, 6CG7	65T00091L01	65T00091L01	65T00091L01	65T00091L01	65T00091L01
S1701	Switch, Power	40T61963F02	40T61963F02	40T68579F01	40T68579F01	40T68579F01
C1001	Capacitor, Ceramic 0.01 μF	08T57437F09	08T57437F09	08T57437F09	08T57437F09	08T57437F09
F1701	Fuse	65T52486F13	65T52486F13	65T42077U13	65T42077U13	65T52486F13
F1702	Fuse	65T55050F18	65T52486F41	65T42077U22	65T42077U22	65T55050F18
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.	Not Used	54B57610F12	54B57610F11	54B57610F10	54B57610F11
	Label, Safety	Not Used	Not Used	54B60909F09	Not Used	Not Used

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▲ : For SG model only, ★ : For SH model only, Others: Common

Exploded View (Cabinet)



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Cabinet Assembly Parts List

Symbol No.	Index	Part No.	Description
1		03S63857F01	Screw, Tapping (M4 x 10)
2		04A65640F04	Washer, Fiber (M4)
3	1-A	15D67323F01	Cover, Top
4	3-A	01V69100F59	Assembly, Front Panel
5	4-A	01V68500F43	Assembly, Front Escutcheon
6		03S40018G08	Screw, Tapping (M3 x 8)
7		36B67337F01	Knob, Tone Volume
8	2-A	43A68460F01	Bushing
9	1-C	05B41635J04	Rivet, Push
9	1-C	05B41635J04	Rivet, Push
9	1-C	05B41635J04	Rivet, Push
10	3-A	*	Shield, Power Switch
10	3-A	*	Shield, Power Switch
10	3-A	*	Shield, Power Switch
11		03S40012G98	Screw, Tapping (M3 x 8)
12	3-A	14S53017F64	Insulator, Cover
13	4-A	36B67336F01	Knob, Main Volume
14	3-A	36A67330F01	Knob, Power
15	3-A	36A67331F01	Knob, Push (Speaker)
16	5-A	*	Assembly, Tone-LED P.C. Board
17		36A67333F01	Knob, Push
18	5-B	*	Panel, Phone Jack Mounting
19	3-B	*	Chassis, Front
20	3-B	03D40014G04	Screw, W/Washer (M3 x 6)
21		03S40012G93	Screw, Tapping (M3 x 8)
21		03S40012G93	Screw, Tapping (M3 x 8)
21		03S40012G93	Screw, Tapping (M3 x 8)
22	4-B	36A67332F01	Knob, Push (Rec Out)
23	4-B	36A67334F01	Knob, Push (AV)
24	5-B	*	Panel, Head Phones
25	5-B	01V68400F95	Assembly, Function LED P.C. Board
26	5-B	07B67320F01	Frame, LED
27	1-E	*	Holder, Fuse
27	1-E	*	Holder, Fuse
28		29C41045P05	Lug, Warp
28		29C41045P05	Lug, Warp
28		29C41045P05	Lug, Warp
29	4-B	43A67342F01	Spacer, Switch
30	3-C	*	Assembly, Tone P.C. Board
31	3-C	*	Assembly, Speaker-Switch P.C. Board
32	5-C	*	Cover, Bottom
33		75A67063F02	Trann-Leg

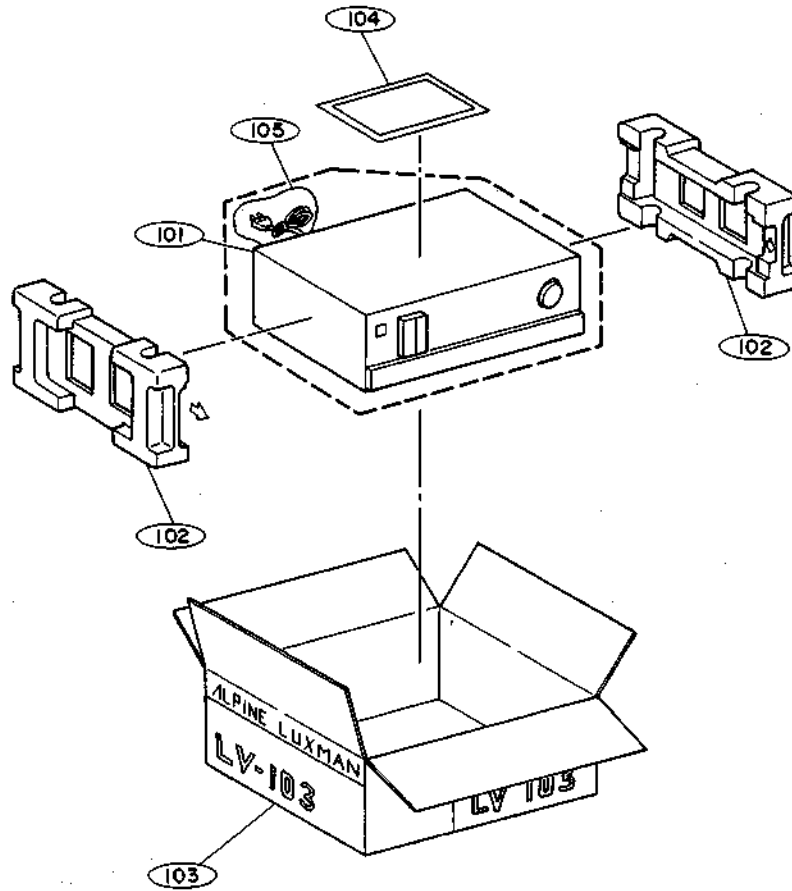
Symbol No.	Index	Part No.	Description
34		75A67064F01	Felt
35		04S40072G15	Tooth, Lock Wash (M4.3)
36		03S44205G28	Screw, Bind (M4 x 16)
37	3-C	*	Assembly, Heat-Up P.C. Board
38	1-C	07A40871F01	Support, Transformer, Washer
39	2-C	*	Chassis, Transformer
40	3-C	*	Shield, Tone
41	4-C	*	Assembly, MM/MC P.C. Board
42	1-D	03S40036U01	Screw, W/Washer (M4 x 8)
43	3-D	75A68381F01	Cushion, Trans Chassis
44	3-D	*	Panel, Tube
45	3-D	*	Panel, REC Selector
46	4-D	*	Panel, Volume Control
47	4-D	*	Assembly, Front-Aux P.C. Board
48	6-D	*	Chassis, Side
49	3-D	09T64527F01	Socket, Tube
50	4-D	*	Assembly, Function P.C. Board
51		75T57059F01	Pad, Tranleg
52	3-E	07C67319F01	Frame, Tube
53	3-E	75A67341F01	Cushion, Tube
54	4-E	75A57803F11	Cushion
55	4-E	*	Shield, Panel
56	2-E	*	Panel, Speaker Terminal
57	3-E	*	Assembly, Main P.C. Board
58	3-E	03S40121T13	Screw, W/Double Washer (M3 x 10)
59	3-E	03C40014G33	Screw, W/Washer (M3 x 16)
60	3-E	*	Heat, Sink
61		43A63128F02	Spacer, Holder
62		02B47353F02	Nut, Hex Flange (M3)
63	5-E	*	Support, Equalizer P.C. Board
64		15C67324F03	Cover, Rear
64		15C67324F03	Cover, Rear
64		15C67324F04	Cover, Rear
64		15C67324F04	Cover, Rear
64		15C67324F04	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 whose parts numbers are not entered will not be supplied.

Symbol No.	Index	Part No.	Description
65		*	Assembly, AV-Monitor P.C. Board
66		03C40121T17	Screw, W/Double Washer (M3 x 8)
67	4-F	03C40121T05	Screw, W/Double Washer (M3 x 8)
68	3-F	47B64899F17	Shaft, Panel
69	5-F	45T67442F01	Flexible, Wire
70	6-F	*	Tube (90)
71	4-F	*	Assembly, Protect P.C. Board
72	5-F	*	Assembly, Equalizer P.C. Board
73		43T53136F01	Bush, Cap
73		43T53136F01	Bush, Cap
74	1-G	43B41625J02	Support, Cord
75	3-G	*	Wire, MTG P.C. Board
76	3-G	*	Heat, Sink
77	2-G	29T66964F01	Terminal, Ground
78	1-C	29A41814G01	Lug
79	4-C	15A69033F01	Guide, Volume
80	4-G	03S40012G99	Screw, Tapping (M3 x 10)
81	5-A	41A68570F01	Spring, Volume
82	1-E	07A69038F01	Bracket, Fuse Holder
82	1-E	07A69038F01	Bracket, Fuse Holder
82	1-E	07A69038F01	Bracket, Fuse Holder
83	1-E	*	Assembly, Fuse P.C. Board
83	1-E	*	Assembly, Fuse P.C. Board
83	1-E	*	Fuse P.C. Board
84	1-E	54B62266F41	Label, Fuse T6.3A
84	1-E	54B62266F41	Label, Fuse T6.3A
85	3-B	54B62266F06	Label, Fuse 6A-125mA
85	3-B	54B62266F30	Label, Fuse T4A
85	3-B	54B62266F30	Label, Fuse T4A
86	3-C	54B62266F31	Label, Fuse T500mA
86	3-C	54B62266F31	Label, Fuse T500mA
87	4-B	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
 Note: * The parts whose parts numbers are not entered will not be supplied.

Packing Method View



Packing Assembly Parts List

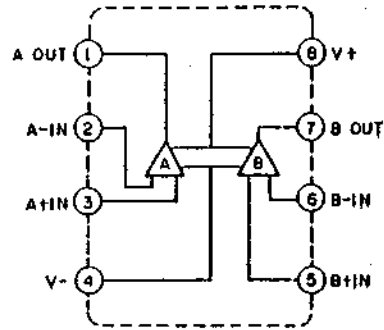
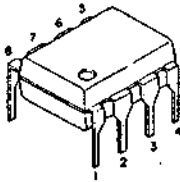
Symbol No.	Part No.	Description
101	56B40442T13	Packing, Front Frame
102	56D67465F01	Packing, Tray
103	56S60482F69	Carton Packing
104	68P67499F27	Owner's Manual
105	56B40230G08	Sack, Polyethylene

Symbol No.	Part No.	Description
Labels		
	54B42124G08	Serial No.
○	54B57610F12	Serial No.
■	54B57610F11	Serial No.
▲	54B57610F10	Serial No.
★	54B57610F11	Serial No.
■	54B60909F09	Safety

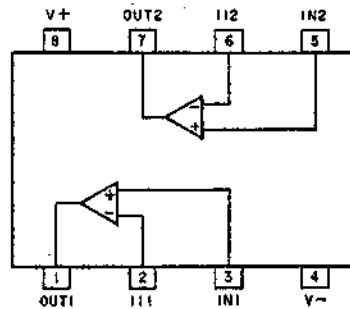
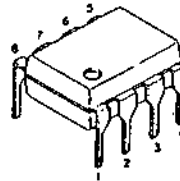
Note: ● : For JK model only, ○ : For EZ model only, ■ : For SK model only,
 ▲ : For SG model only, ★ : For SH model only, Others: Common

Semi-Conductor Lead Identifications

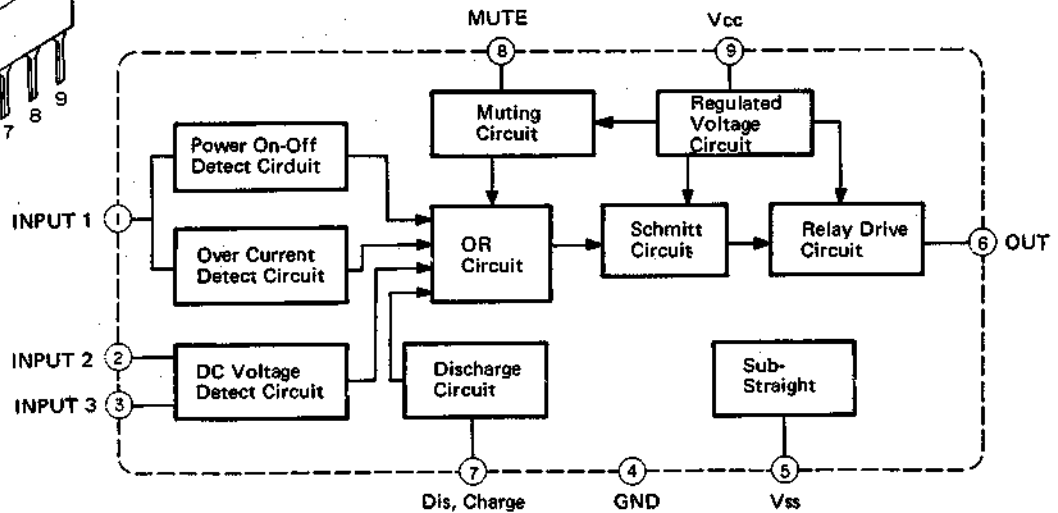
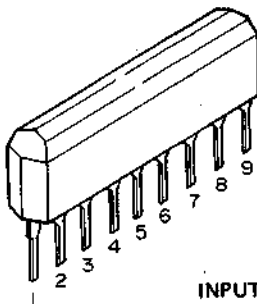
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μPC4558C: IC4201



TA7317P: IC8306



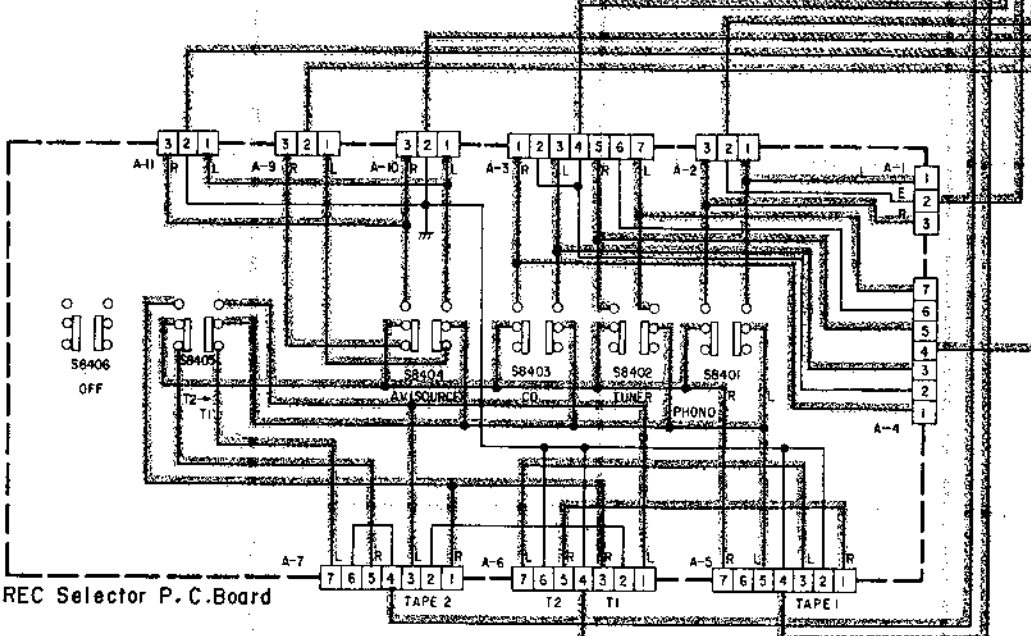
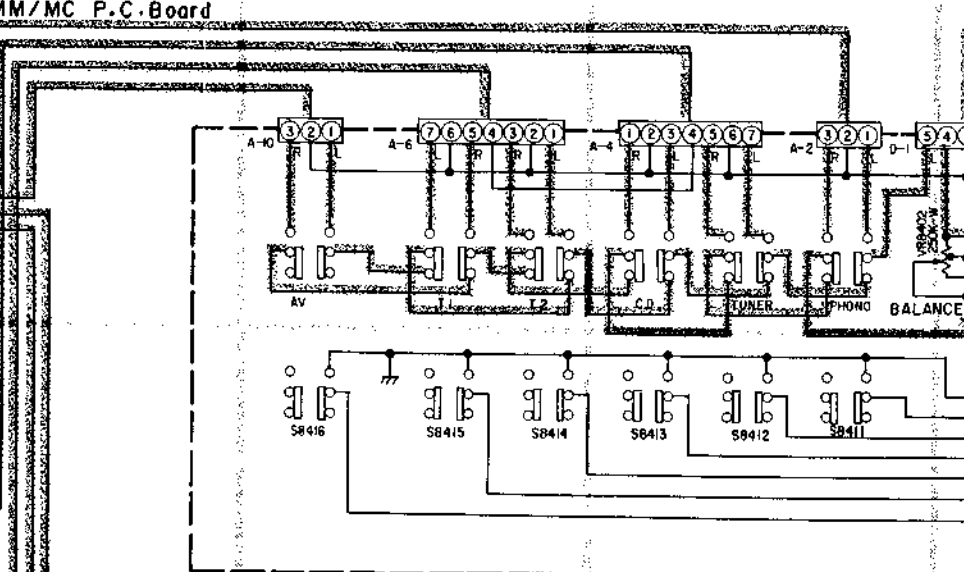
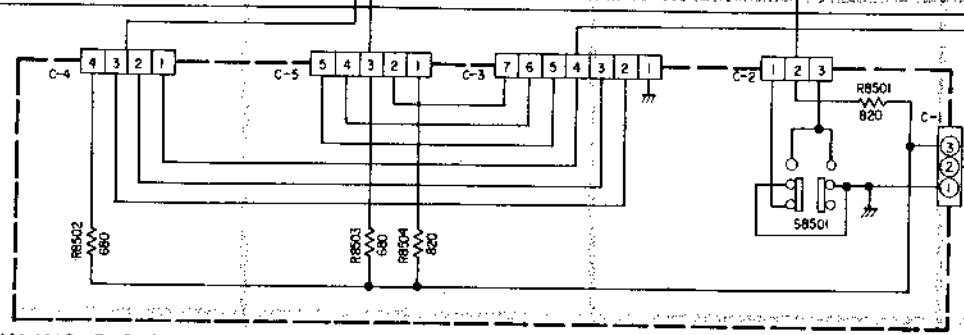
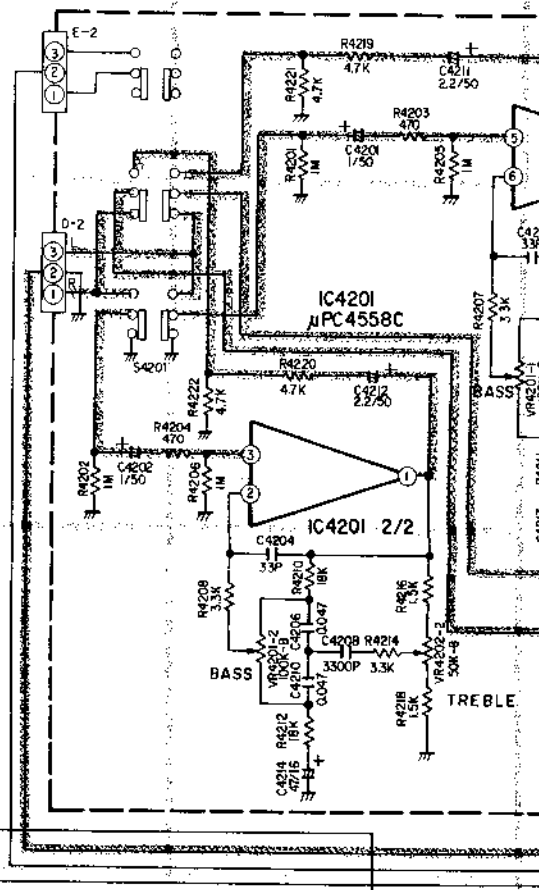
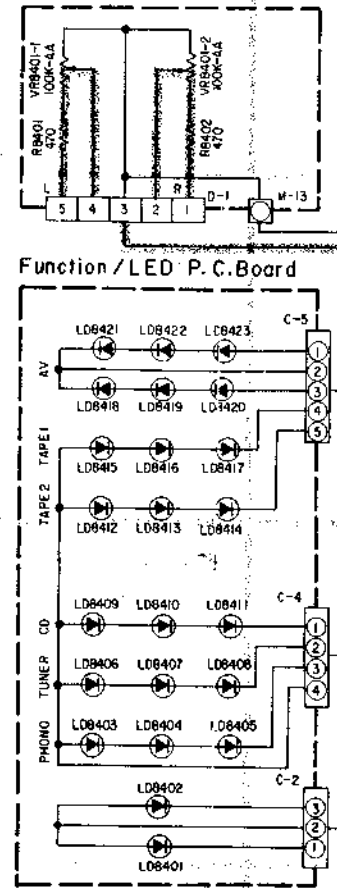
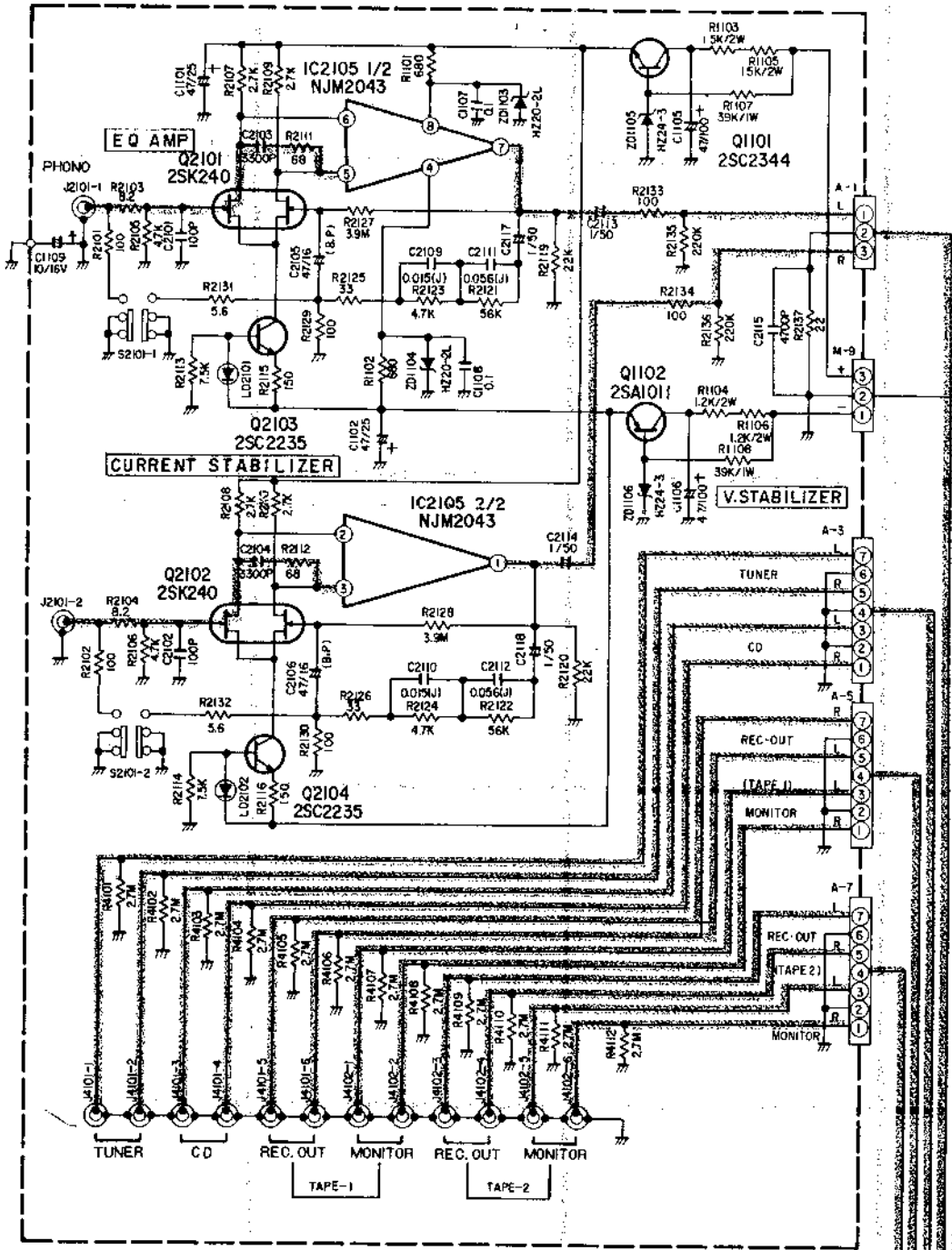
IC's	IC2105			IC4201				
TRANSISTOR (Q)	Q2101 Q2103 Q2102	Q2104	ZD1104 ZD1103	Q1101 Q1102	LD8418~LD8423 LD8412~LD8417 LD8403~LD8411	LD8402 LD8401	D1601 D1602 D1603	LD8612 LD8611
DIOD (D,LD)	LD2101 LD2102			ZD1105 ZD1106				

Equalizer P.C.Board

V. STABILIZER

Volume Control P.C.Board

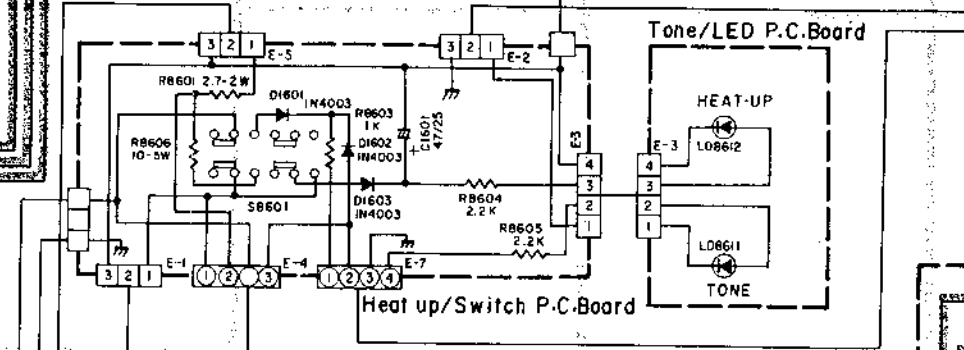
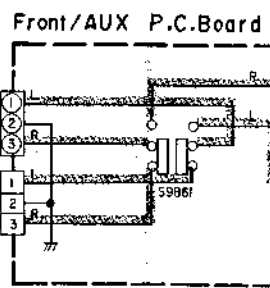
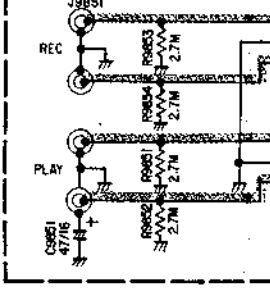
Tone P.C.Board



REC Selector P.C. Board

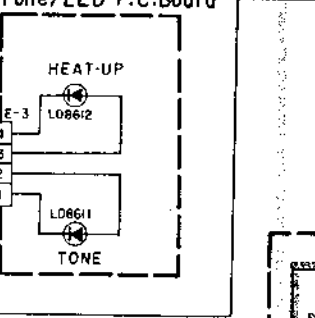
AV Monitor P.C. Board

Front/AUX P.C. Board



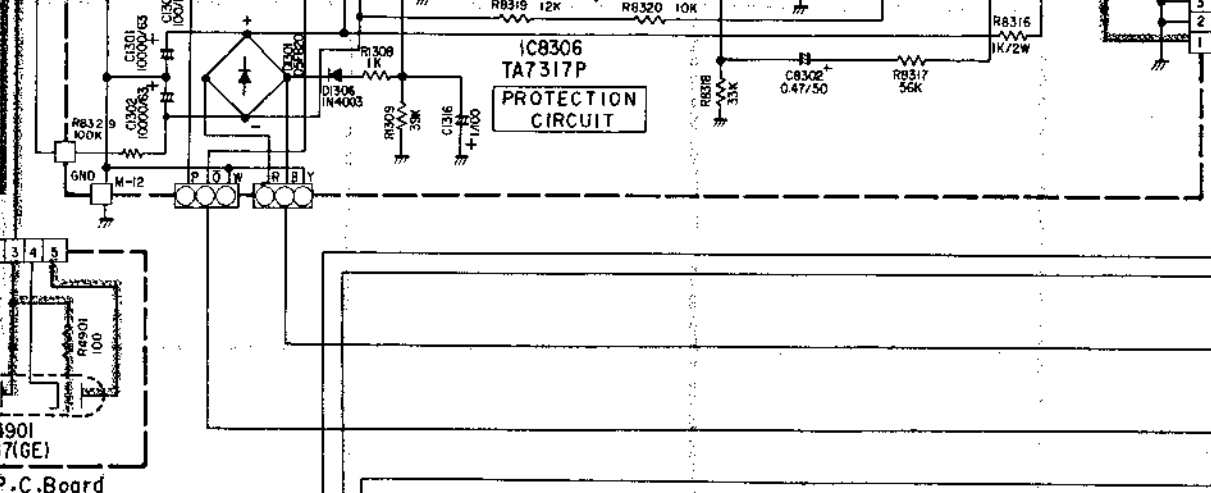
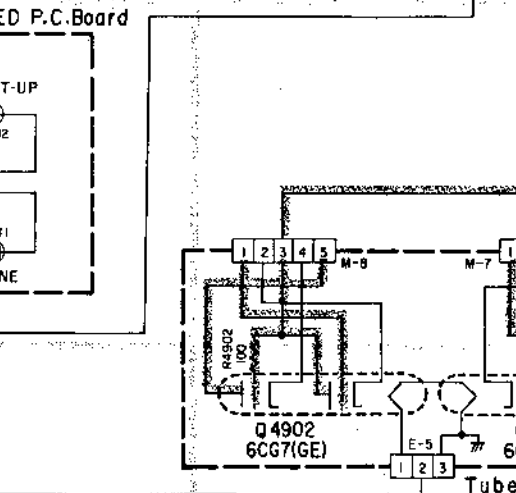
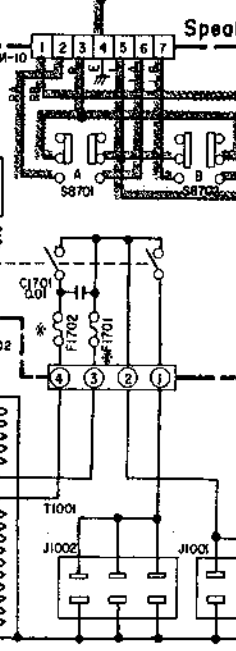
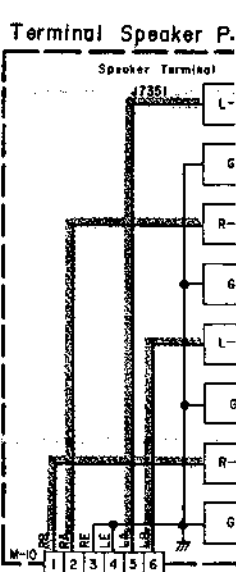
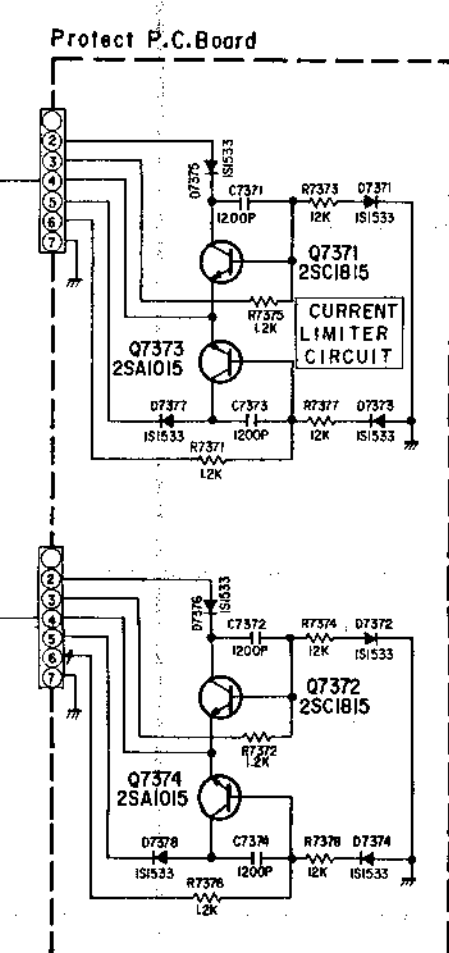
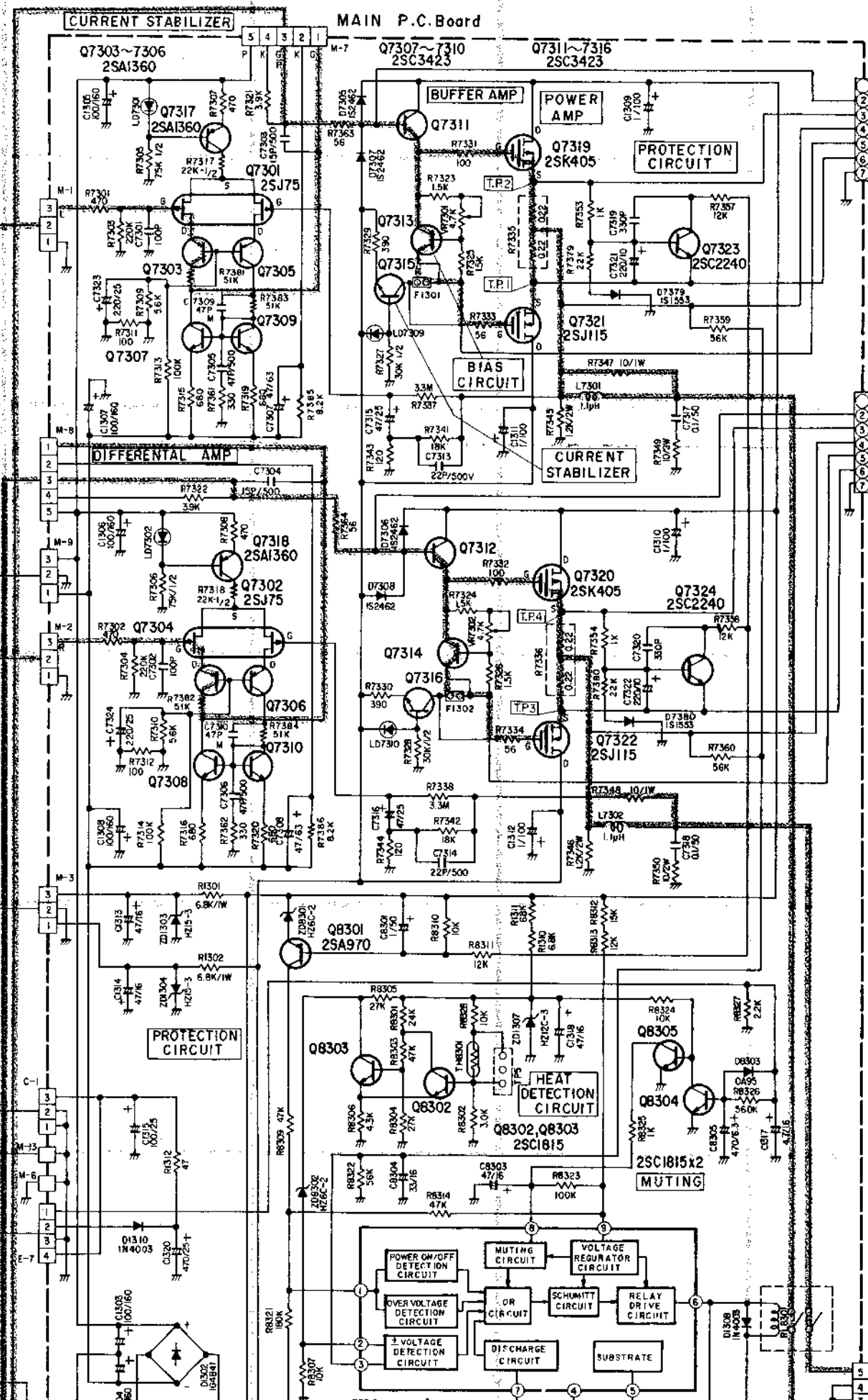
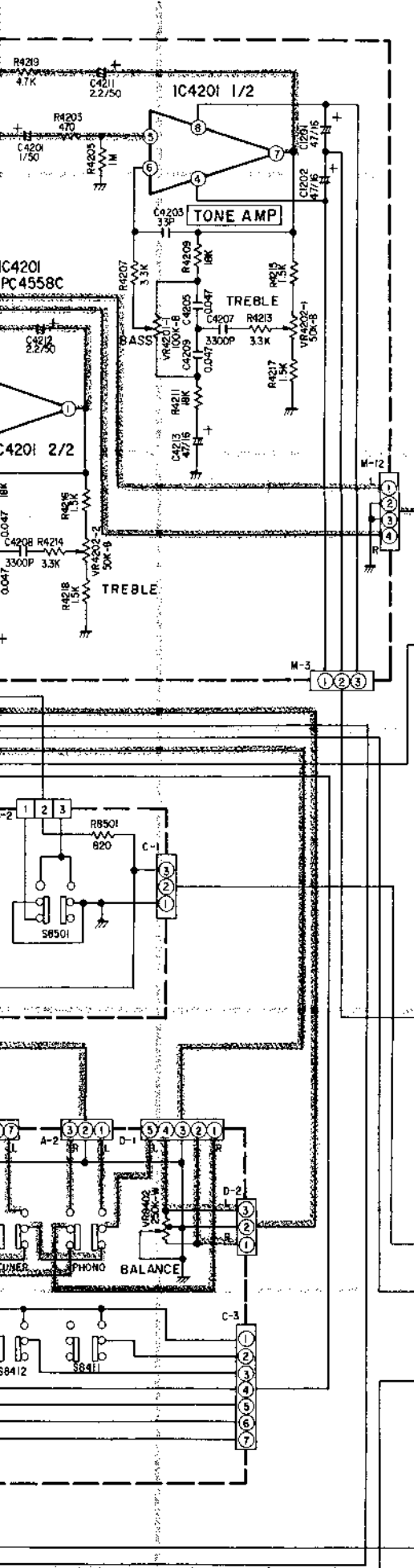
Heat up/Switch P.C. Board

Tone/LED P.C. Board



Q4901 Q4902

Q7317	Q7305	Q7318	Q7306	Q8301	Q7311	Q7312	Q7319	Q7320	Q7323	Q8305	Q7371	Q7372	
Q7301	Q7307	Q7302	Q7308	Q8303	Q7313	Q7314	Q7321	Q7322	Q7324	Q8304	Q7373	Q7374	
Q7303	Q7309	Q7304	Q7310	Q8302	Q7315	Q7316							
LD7301	ZD1303	D1302	ZD8301	D7305	D7306		D7379		D8303		D7377	D7375	
LD7302	ZD1304	D1301	ZD8302	D7307	D7308		D7380		D1308		D7378	D7376	
	D1310	D1306	ZD8302	LD7309	LD7310		ZD1307					D7371	D7372
												D7373	D7374



JK	EZ	SN, 51
F1702	7A	6A T-4A
F1701	0-5A	0-5A T-500m

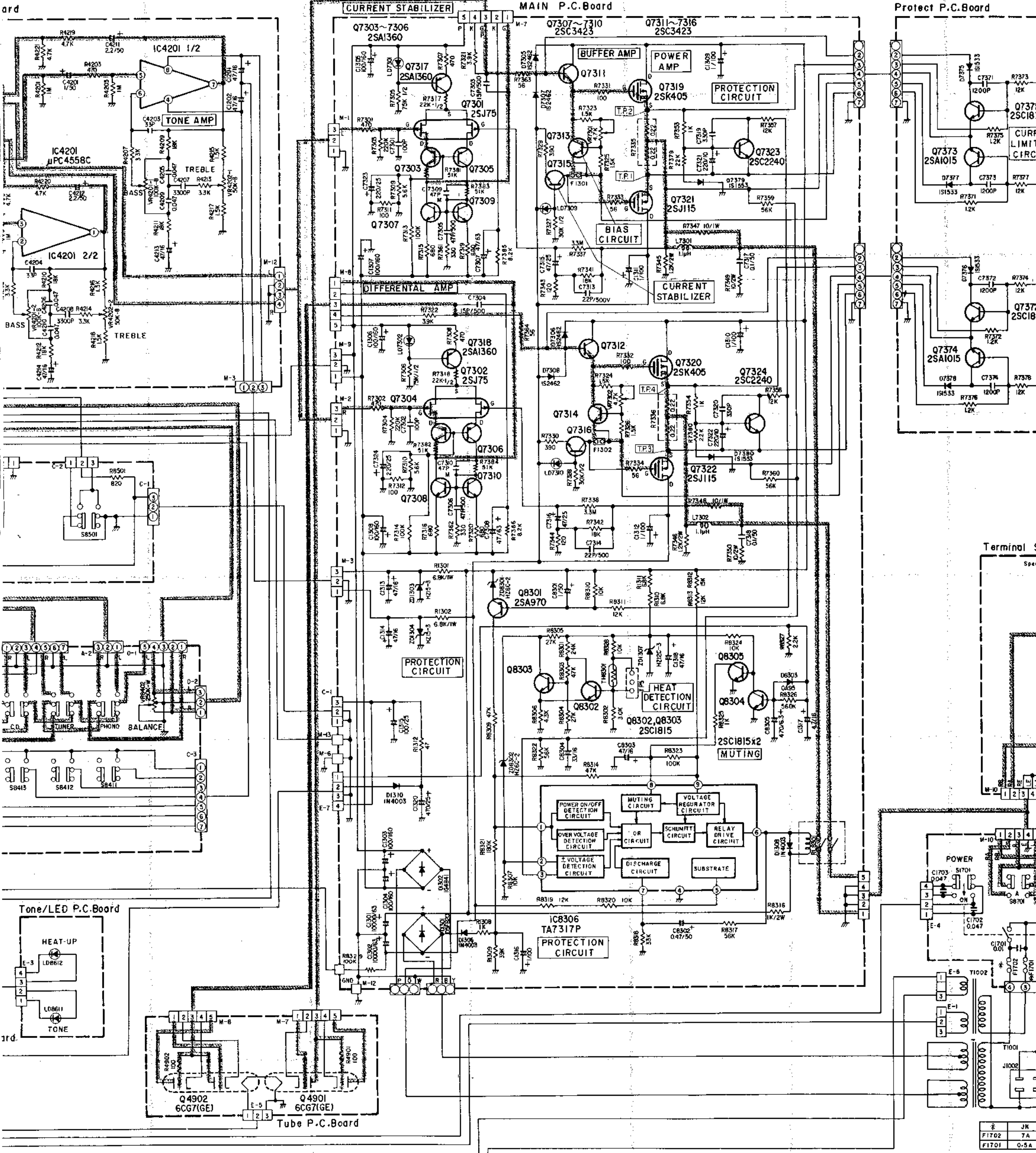
Q4901 Q4902

Q7317 Q7305 Q7318 Q7306 Q8301 Q7311 Q7312 Q7319 Q7320 Q7323 Q8305 Q7371 Q7372 Q7373 Q7374



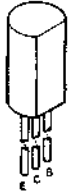

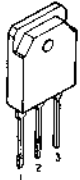
L07301 Z01303 L07302 Z01304 D1302 D1306 Z08301 D7305 D7306 D7307 D7308 L07309 L07310 Z01307 D7379 D7380 D8303 D1308

L08612 L08611

D7377 D7375 D7378 D7376 D7377 D7376



JK	JK
7A	7A
0.5A	0.5A

<p>2SC2344: Q1101 2SA1011: Q1102</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 } : Q7371, 7372 2SC1815 } 2SA733 } : Q7373, 7374 2SA1015 } 2SA970: Q8301 2SC1815: Q8302 ~ 8305</p> 