

# Service Manual

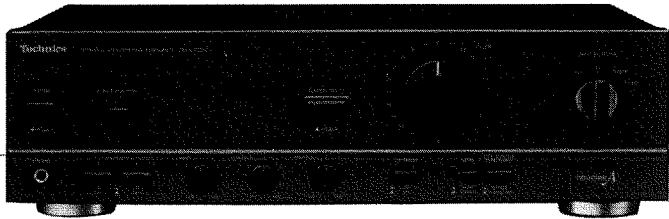
Amplifier

Stereo Integrated Amplifier

96240 SU-VZ220

Colour

(K) ..... Black Type



**Areas**

Suffix for Model No.	Area	Colour
(EB)	Great Britain	(K)
(EG)	Continental Europe Germany and Italy	
(EP)	Poland	
(GN)	Oceania	

**SPECIFICATIONS  
(DIN 45 500)**

<b>20 Hz~20 kHz continuous power output both channels driven</b>	2 × 30 W (8 Ω)
<b>1 kHz continuous power output both channels driven (THD:1%)</b>	2 × 38 W (8 Ω) 2 × 50 W (4 Ω)
<b>63 Hz~12.5 kHz continuous power output both channels driven (THD: 0.7%)</b>	2 × 35 W (8 Ω) 2 × 45 W (4 Ω)
<b>Total harmonic distortion</b>	
rated power at 20 Hz~20 kHz	0.07% (8 Ω)
rated power at 1 kHz	0.02% (8 Ω)
half power at 20 Hz~20 kHz	0.05% (8 Ω)
half power at 1 kHz	0.02% (8 Ω)
<b>Intermodulation distortion (50 Hz:7 kHz = 4:1, SMPTE)</b>	
rated power	0.07% (8 Ω)
<b>Residual hum and noise</b>	1 mV
<b>Damping factor</b>	40 (8 Ω) 20 (4 Ω)
<b>Headphones output level and impedance</b>	450 mV/330 Ω
<b>Load impedance</b>	
A or B	4~16 Ω
A and B	8~16 Ω
<b>Input sensitivity and impedance</b>	
PHONO MM	2.5 mV/47 kΩ
TUNER, CD, AUX, TAPE/ADAPT	150 mV/18 kΩ
<b>Phono maximum input voltage (1 kHz, RMS)</b>	
MM	150 mV (150 mV, IHF '66)
<b>S/N (rated power, 4 Ω)</b>	
PHONO MM	76 dB (77 dB, IHF '66)
TUNER, CD, AUX, TAPE/ADAPT	91 dB (98 dB, IHF '66)
<b>S/N at -26dB power (4 Ω)</b>	
PHONO MM	68 dB
TUNER, CD, AUX, TAPE/ADAPT	70 dB
<b>S/N at 50 mW power (4 Ω)</b>	
PHONO MM	64 dB
TUNER, CD, AUX, TAPE/ADAPT	64 dB

**Frequency response**

**PHONO MM** RIAA standard curve ±1 dB (30 Hz~15 kHz)  
**TUNER, CD, AUX, TAPE/ADAPT**  
 3 Hz~80 kHz (+0, -3 dB)  
 +0 dB, -0.3 dB (20 Hz~20 kHz)

**Tone controls**

**BASS** 50 Hz, +10~-10 dB  
**TREBLE** 20 kHz, +10~-10 dB  
**Loudness control (volume at -30 dB)** 50 Hz, +9 dB

**Output voltage**

**TAPE/ADAPT REC OUT** 150 mV  
**Channel balance (AUX, 250 Hz~6.3 kHz)** ±1 dB  
**Channel separation (AUX, 1 kHz)** 50 dB

**GENERAL**

**Power consumption** 125 W  
**Power supply** AC 50 Hz/60 Hz, 230/240 V  
**Dimensions (W × H × D)** 430 × 125 × 320 mm  
**Weight** 6.1 kg

**Notes:**

- Specifications are subject to change without notice. Weight and dimensions are approximate.
- Total harmonic distortion is measured by the digital spectrum analyzer.

**Technics**

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## BEFORE REPAIR

- Turn off the power supply. Using a 10Ω, 5 W resistor connect both ends of power supply capacitors (C705, C706, 4700 μF) in order to discharge the voltage.
- Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 50-Hz/60-Hz in-NO-SIGNAL mode should be shown below with respect to supply voltage 230 V/240 V.

Power supply voltage	AC 230 V	AC 240 V
Consumed current 50 Hz	47~157 mA	45~150 mA

## PROTECTION CIRCUITRY

The protection circuitry may have operated if either of the following conditions is noticed:

- \*No sound is heard when the power is switched ON.
- \*Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.

If this occurs, follow the procedure outlined below:

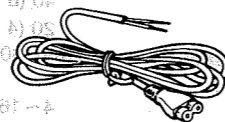
- Switch OFF the power.
- Determine the cause of the problem and correct it.
- Switch ON the power once again.

### Note:

When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

## ACCESSORY

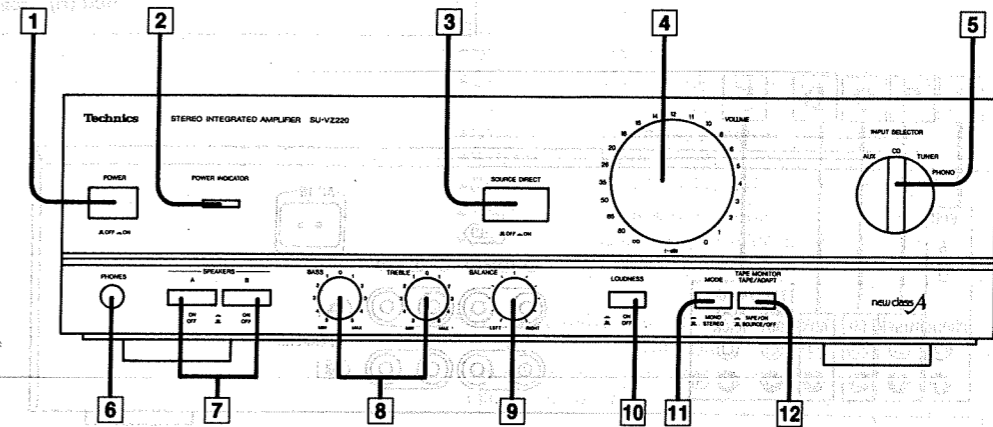
- AC Power Supply cord ..... 1
- RJA0019-1K ..... For (EG) and (EP) areas
- SJA193 ..... For (EB) area
- SJA173 ..... For (GN) area



Configuration of the AC power supply cord differs according to area.

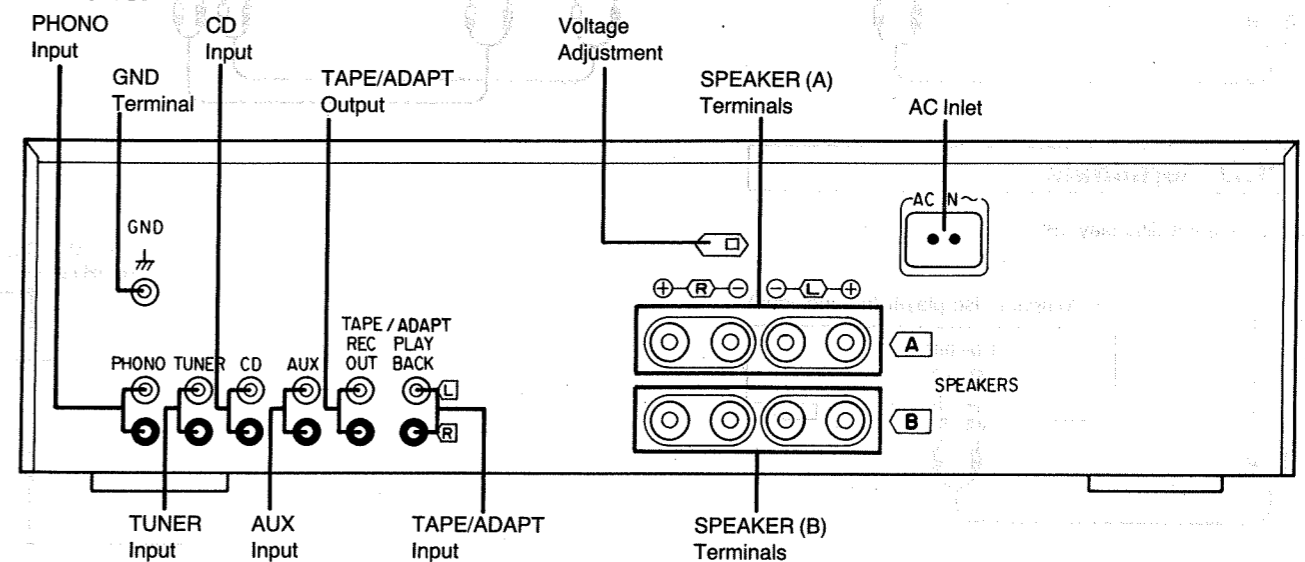
## LOCATION OF CONTROLS

### Front Panel



- Power switch (POWER)**
- Power indicator (POWER INDICATOR)**  
When the power is switched ON, this indicator illuminates.
- Source direct switch (SOURCE DIRECT)**  
This switch is used when enjoying high quality sound playback such as that from a CD.
- Volume control (VOLUME)**
- Input selector (INPUT SELECTOR)**  
This selector is used to select the sound source to be heard, such as a disc, radio broadcast, etc.
- Headphones jack (PHONES)**
- Speaker selectors (SPEAKERS)**  
These selectors are used to select the speaker systems to be used.
- Tone controls (BASS/TREBLE)**  
The bass control is used to adjust the low-frequency sound range, and the treble control is used to adjust the high-frequency sound range.
- Balance control (BALANCE)**  
This control is used to adjust the left/right volume balance.
- Loudness switch (LOUDNESS)**  
This switch is used when listening to music at a low volume level. Auditory perception of sound in the low frequency range falls off at low volume, but when the switch is set to the "ON" position, this deficiency is compensated for, so that the full impact of the musical performance can be enjoyed.
- Mode selector (MODE)**  
This selector is used to select stereo or monaural operation.
- Tape-monitor selector (TAPE MONITOR)**  
**SOURCE/OFF ( → ):**  
Set to this position to listen to a phono disc, radio broadcast, compact disc or to listen to equipment connected to the auxiliary-input terminals ("AUX").  
**TAPE/ON ( → ):**  
Set to this position to playback or monitor the sound from a tape deck, or to listen to the sound processed by a graphic equalizer.

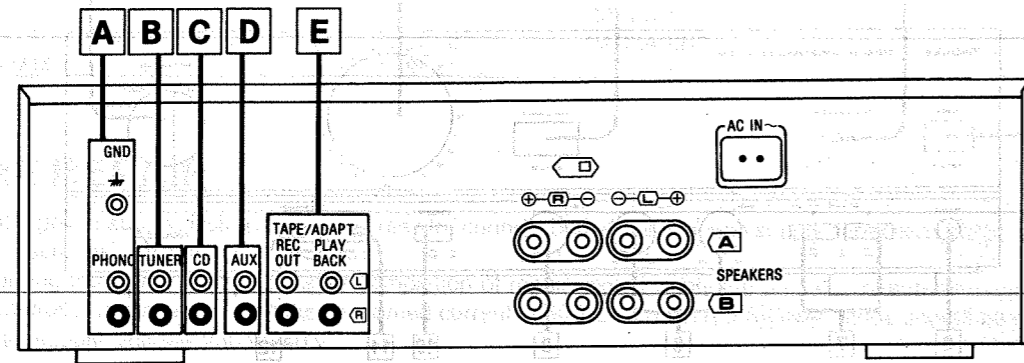
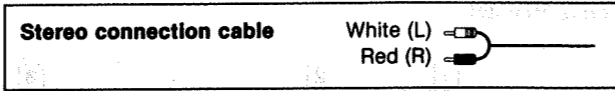
### Rear Panel



\*Phono input capacitance is about 270 pF.

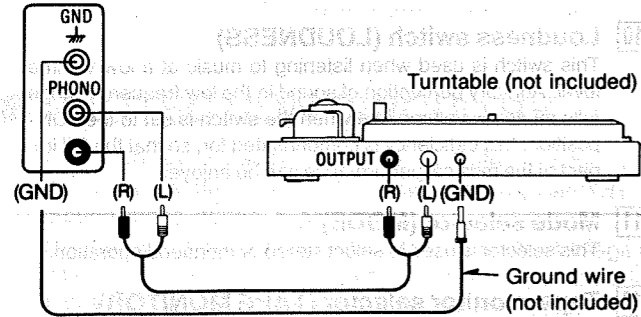
# CONNECTIONS

Make connections to each component in the system by using stereo connection cables (not included).



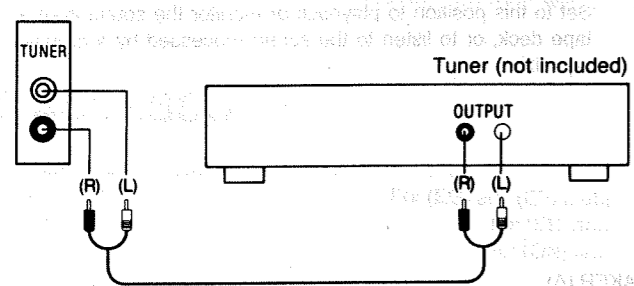
## A "PHONO" terminals

Connect a turntable.



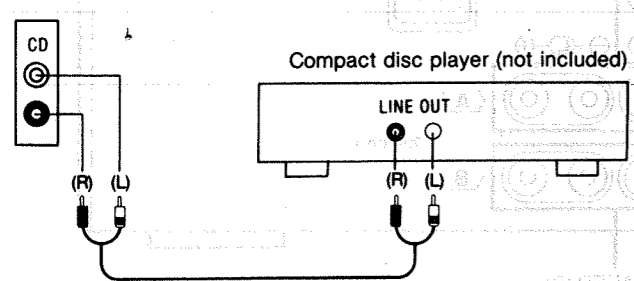
## B "TUNER" terminals

Connect a tuner.



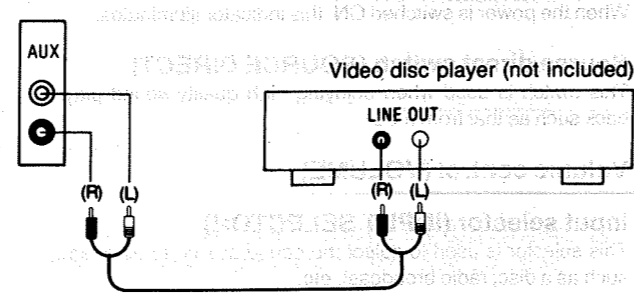
## C "CD" terminals

Connect a compact disc player.



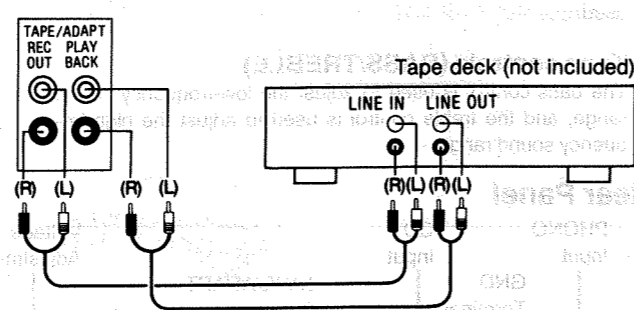
## D "AUX" terminals

Connect a component such as a video disc player (audio only connectable), etc.



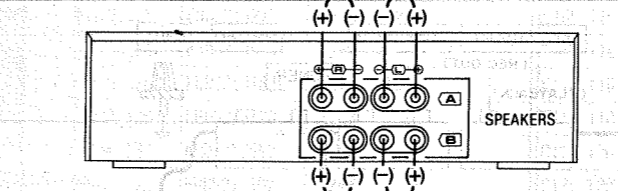
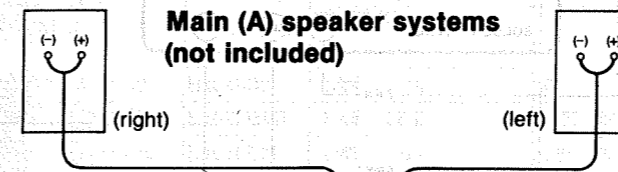
## E "TAPE/ADAPT" terminals

Connect a tape deck or a graphic equalizer.



## Connection to speaker systems

One pair of speaker systems can be connected to the "A" terminals of this unit and one pair to the "B" terminals. Make connections to each speaker system by using speaker cords (not included).



## Load impedance

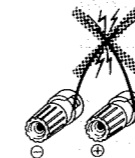
- When only the "A" or only the "B" terminals are used: 4–16 ohms
- When both the "A" and the "B" terminals are used simultaneously: 8–16 ohms

## To connect cords to terminals

- 1 Strip off the outer covering, and twist the center conductor. 10 mm Twist
- 2 Turn completely to the left.
- 3 Insert the wire and turn completely to the right. Pull the cord to assure a proper connection.

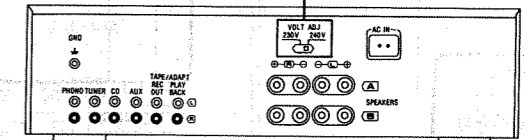
**Note:** Be sure to only connect positive (+) cords to positive (+) terminals, and negative (-) cords to negative (-) terminals.

**Note:** To prevent damage to circuitry, never short-circuit the plus (+) and minus (-) speaker wires.



## To set the power voltage

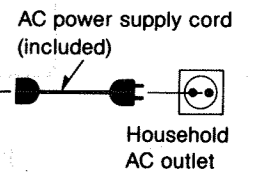
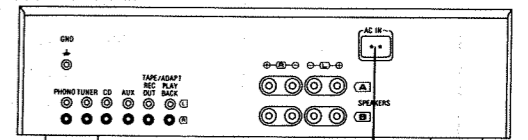
Set the voltage selector to the voltage setting for the area in which the unit will be used. [Use a minus (-) screwdriver]



**Note:** Note that this unit will be seriously damaged if this setting is not made correctly.

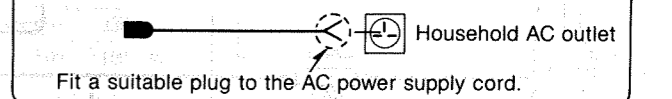
## To connect the AC power supply cord (included)

Connect the AC power supply cord (included) after all other cables and cords are connected.



**Note:** Configuration of AC power supply cord differs according to area.

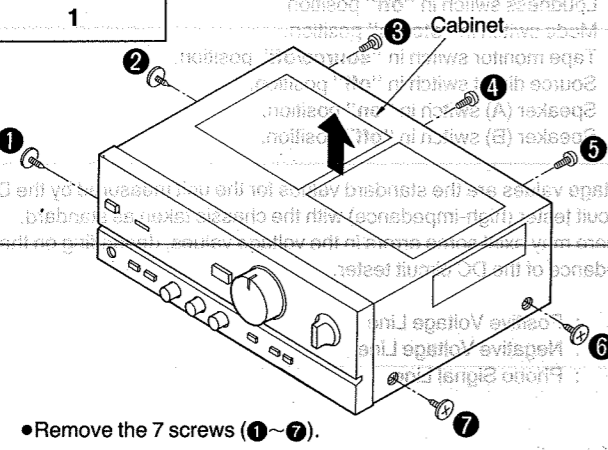
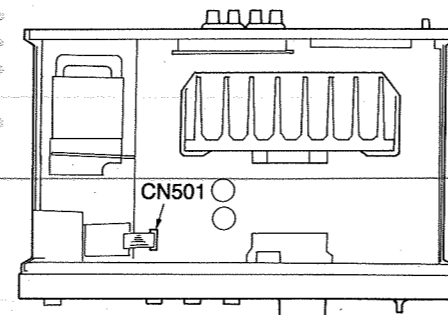
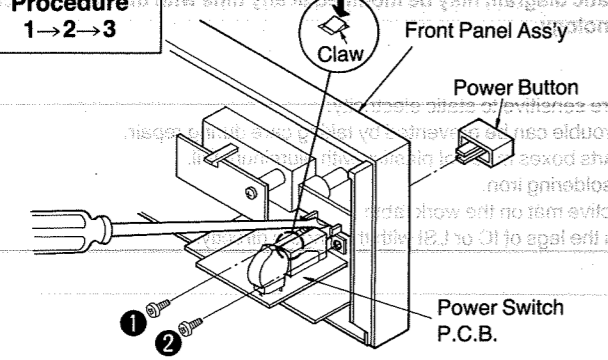
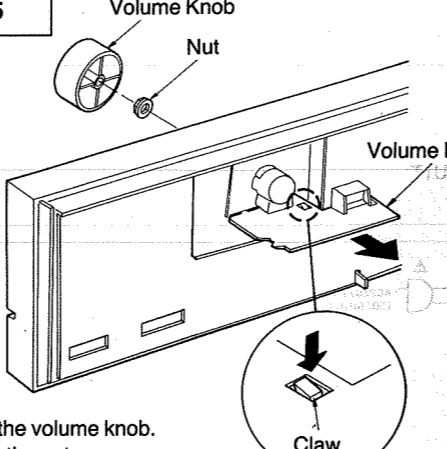
## For United Kingdom

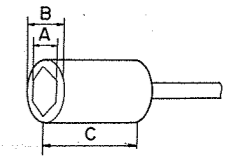
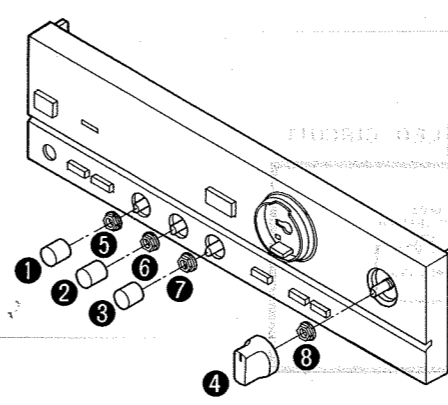
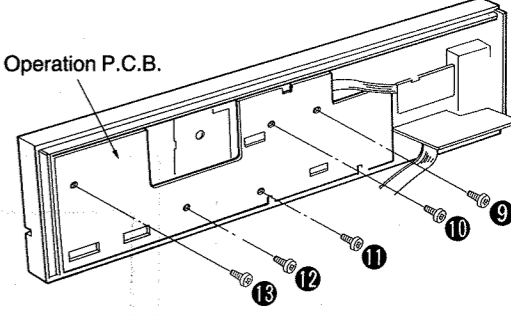
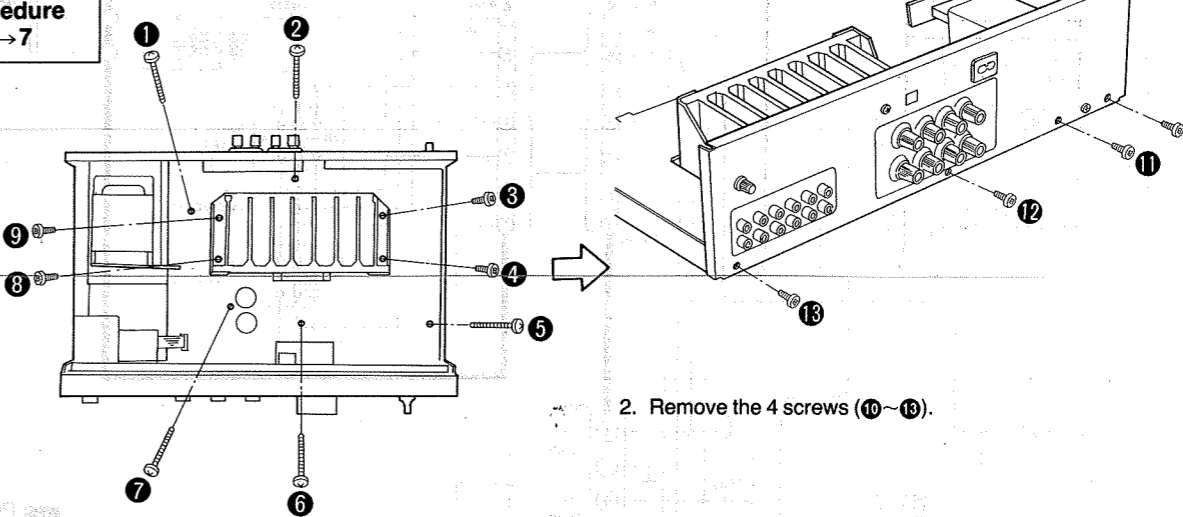
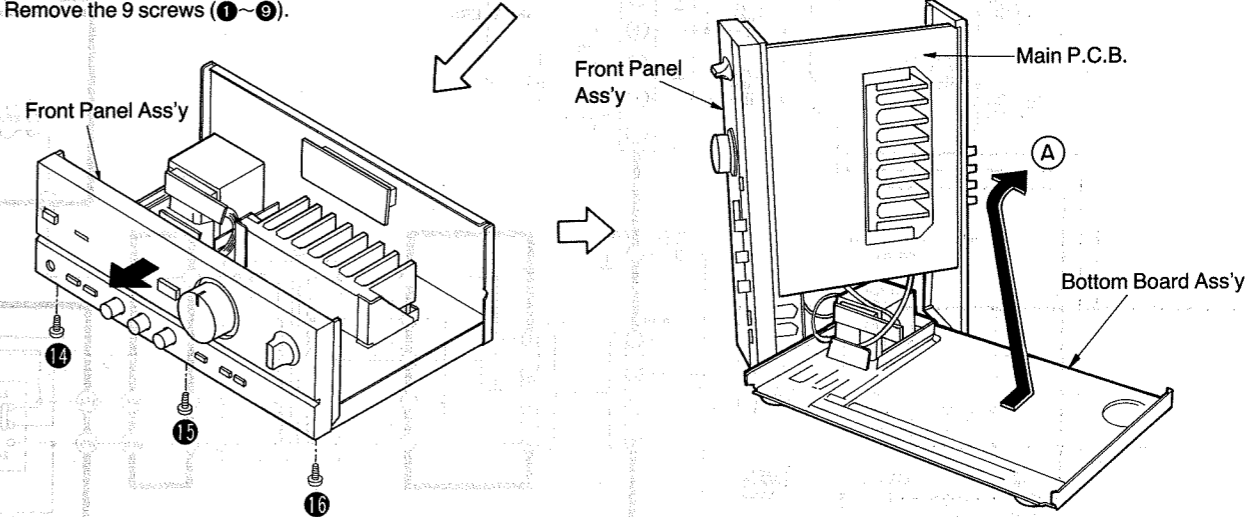


# DISASSEMBLY INSTRUCTIONS

## "ATTENTION SERVICER"

Some chassis components may have sharp edges. Be careful when disassembling and servicing.

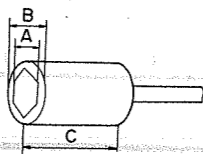
<p><b>Ref. No. 1</b></p> <p><b>Removal of the Cabinet</b></p>	<p><b>Ref. No. 2</b></p> <p><b>Removal of the Front Panel Ass'y</b></p>
<p><b>Procedure 1</b></p>  <p>●Remove the 7 screws (1~7).</p>	<p><b>Procedure 1→2</b></p>  <p>1. Remove the 1 flat cable (CN501).</p>
<p><b>Ref. No. 3</b></p> <p><b>Removal of the Power Switch P.C.B.</b></p>	<p><b>Ref. No. 5</b></p> <p><b>Removal of the Volume P.C.B.</b></p>
<p><b>Procedure 1→2→3</b></p>  <p>1. Remove the 2 screws (1, 2). 2. Release the 1 claw. 3. Remove the power button by pushing it from behind the front panel ass'y.</p>	<p><b>Procedure 1→2→5</b></p>  <p>1. Pull out the volume knob. 2. Remove the nut. 3. Release the 1 claw.</p>

<p><b>Ref. No. 6</b></p> <p><b>Removal of the Operation P.C.B.</b></p>	<p>●Use a wrench of the dimensions shown in the illustration above to remove nuts.</p> <p>A: 11 mm B: 16 mm C: longer than 22 mm</p> 
<p><b>Procedure 1→2→5→6</b></p>  <p>1. Pull out the 4 knobs (1~4). 2. Remove the 4 nuts (5~8).</p>	<p><b>Operation P.C.B.</b></p>  <p>3. Remove the 5 screws (9~13).</p>
<p><b>Ref. No. 7</b></p> <p><b>Checking of the Main P.C.B.</b></p>	<p><b>Procedure 1→7</b></p>  <p>1. Remove the 9 screws (1~9). 2. Remove the 4 screws (10~13).</p>  <p>3. Remove the 3 screws (14~16). 4. Remove the front panel ass'y.</p> <p>5. Remove the main P.C.B. unit in the direction of the arrow (A). 6. Reinstall the front panel ass'y to the main P.C.B.</p>

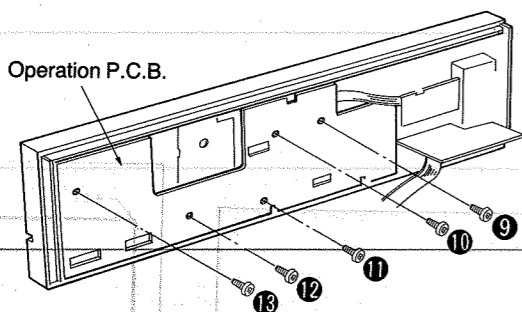
Operation P.C.B.

●Use a wrench of the dimensions shown in the illustration above to remove nuts.

A: 11 mm  
B: 16 mm  
C: longer than 22 mm

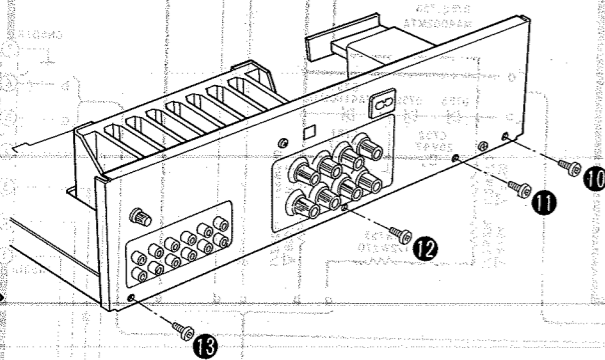


Operation P.C.B.

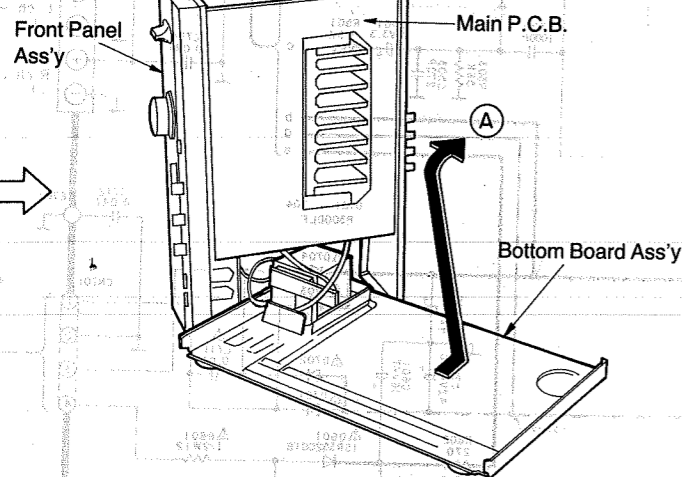


3. Remove the 5 screws (9-13).

Main P.C.B.



2. Remove the 4 screws (10-13).



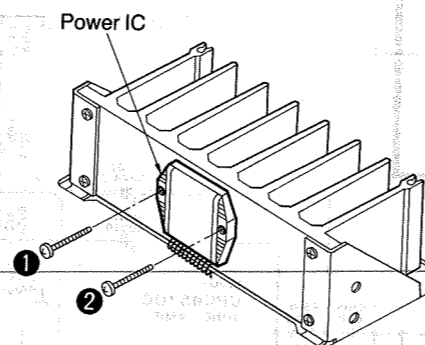
5. Remove the main P.C.B. unit in the direction of the arrow (A).  
6. Reinstall the front panel ass'y to the main P.C.B.

Ref. No. 8

Removal of the Power IC

Procedure 1-7-8

1. Unsolder the power IC.
2. Remove the 2 screws (1, 2).



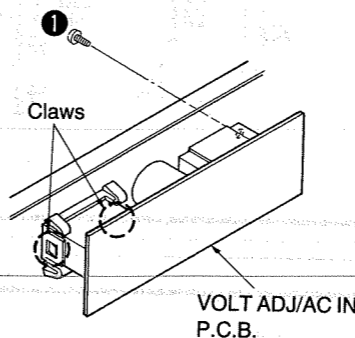
●When mounting the power IC, apply silicon thermal compound (RFKX0002 or equivalent) to the rear of the power IC.

Ref. No. 10

Removal of the VOLT ADJ/AC IN P.C.B.

Procedure 1-10

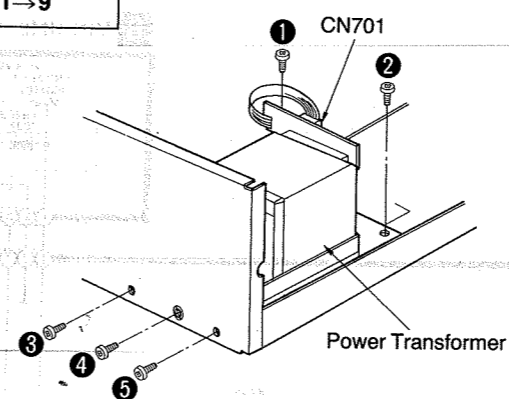
1. Remove the 1 screw (1).
2. Release the 2 claws.



Ref. No. 9

Removal of the Power Transformer

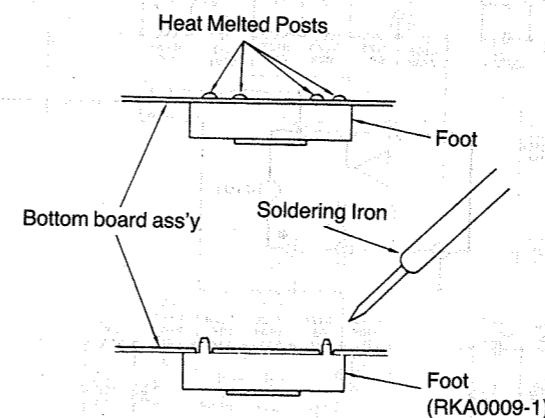
Procedure 1-9



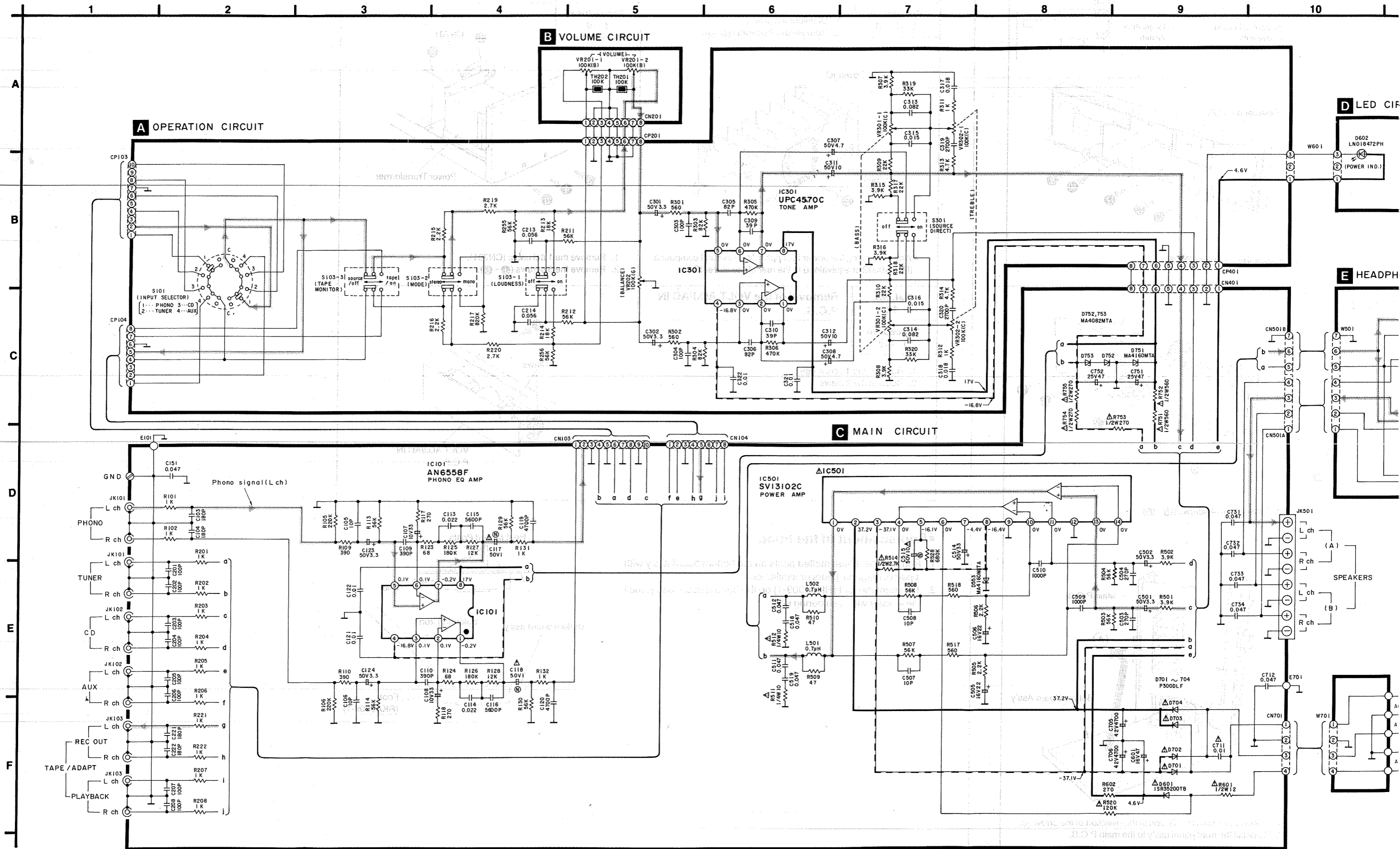
1. Remove the 1 flat cable (CN701).
2. Remove the 5 screws (1-5).

●Replacement of the Foot.

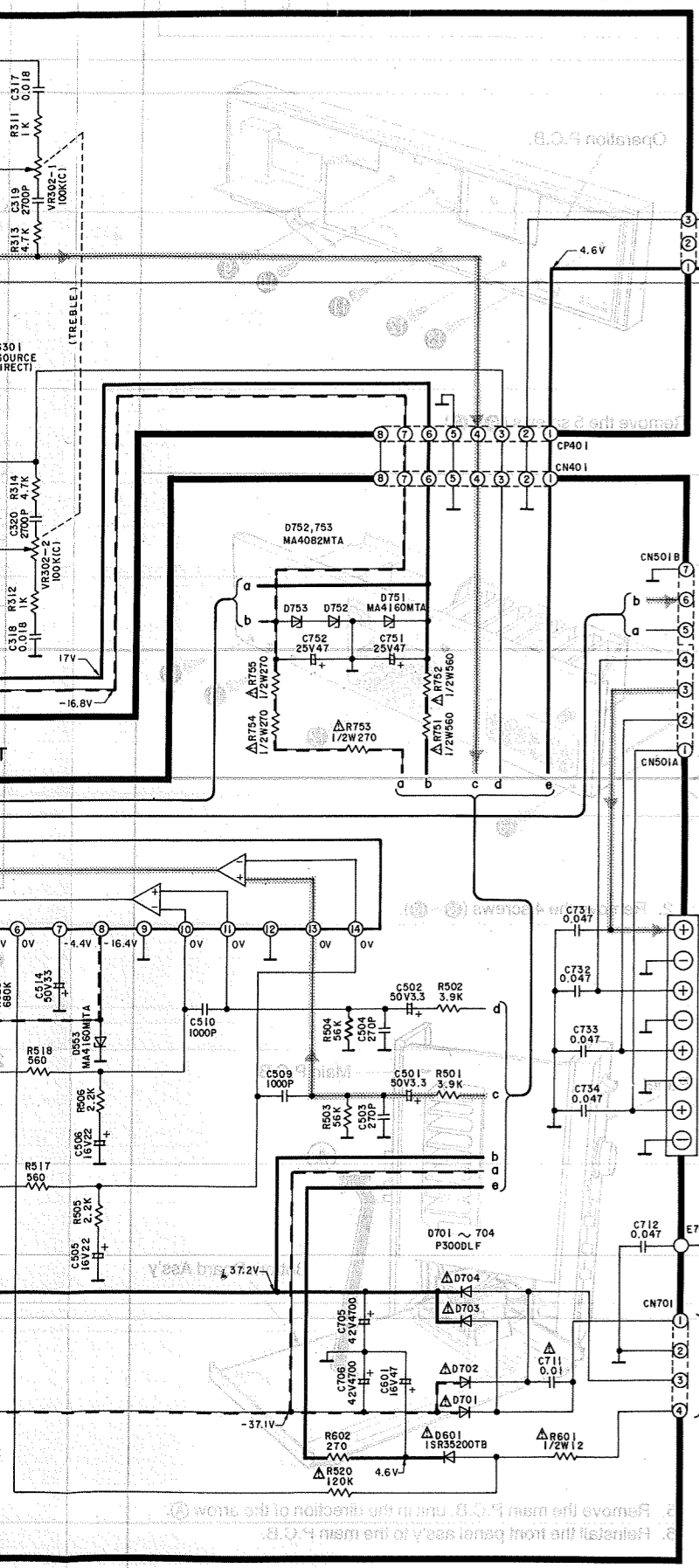
1. Remove the 4 heat melted posts on the bottom board ass'y with a pair of diagonal pliers or similar tool.
2. To mount the foot (RKA0009-1) on the bottom board ass'y, melt the 4 posts with a soldering iron.



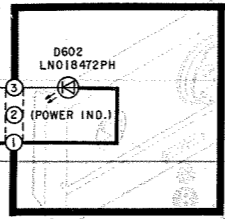
SCHEMATIC DIAGRAM (Parts list on pages 18, 19)



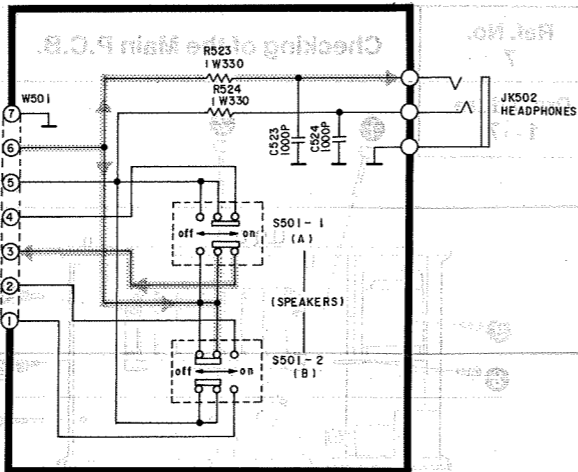
8 9 10 11 12 13 14 15 16



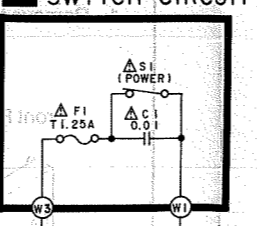
**D LED CIRCUIT**



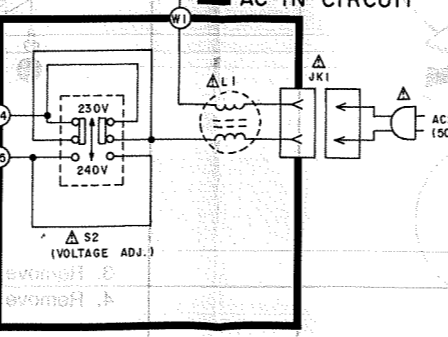
**E HEADPHONES CIRCUIT**



**F POWER SWITCH CIRCUIT**



**G VOLT. ADJ. / AC IN CIRCUIT**



**Notes:**

- S1 : Power switch in "on" position.
- S2 : Voltage adjustment switch in "230 V" position.
- S101 : Input selector switch in "PHONO" position.
- S103-1 : Loudness switch in "off" position.
- S103-2 : Mode switch in "stereo" position.
- S103-3 : Tape monitor switch in "source/off" position.
- S301 : Source direct switch in "off" position.
- S501-1 : Speaker (A) switch in "on" position.
- S501-2 : Speaker (B) switch in "off" position.

•Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

- : Positive Voltage Line
- - - : Negative Voltage Line
- ▨ : Phono Signal Line

**Important safety notice:**

Components identified by  $\Delta$  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.  
 •This schematic diagram may be modified at any time with the development of new technology.

**Caution!**

- IC and LSI are sensitive to static electricity. Secondary trouble can be prevented by taking care during repair.
- Cover the parts boxes made of plastics with aluminum foil.
- Ground the soldering iron.
- Put a conductive mat on the work table.
- Do not touch the legs of IC or LSI with the fingers directly.

WIRING CONNECTION DIAGRAM

12 | 13 | 14 | 15 | 16

Notes:

- S1 : Power switch in "on" position.
- S2 : Voltage adjustment switch in "230 V" position.
- S101 : Input selector switch in "PHONO" position.
- S103-1 : Loudness switch in "off" position.
- S103-2 : Mode switch in "stereo" position.
- S103-3 : Tape monitor switch in "source/off" position.
- S301 : Source direct switch in "off" position.
- S501-1 : Speaker (A) switch in "on" position.
- S501-2 : Speaker (B) switch in "off" position.

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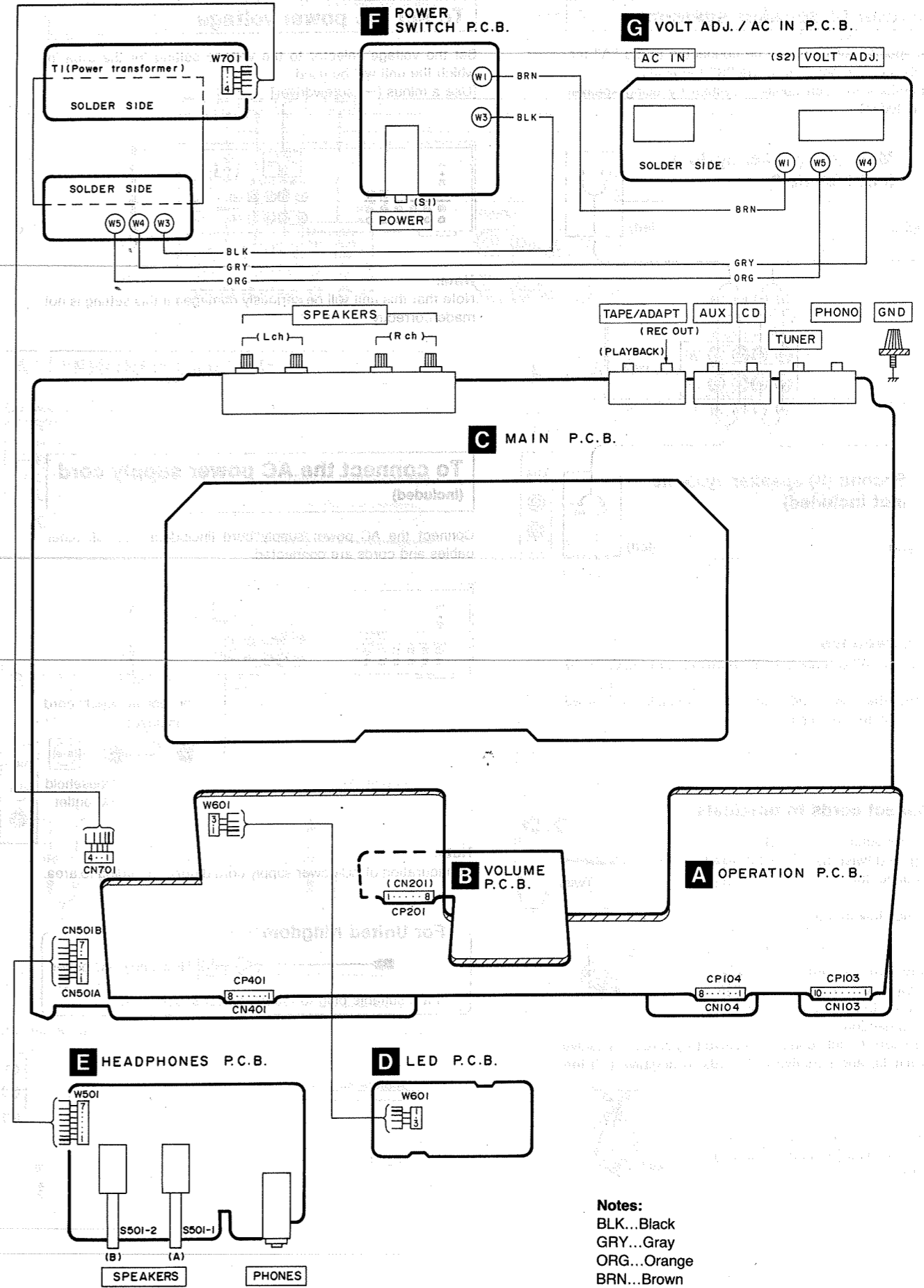
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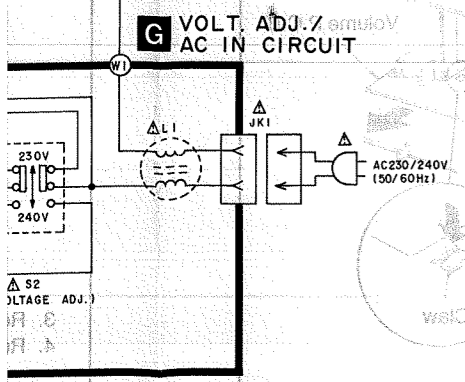
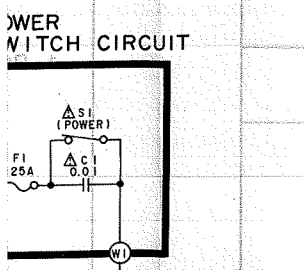
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Caution!

- IC and LSI are sensitive to static electricity. Secondary trouble can be prevented by taking care during repair.
- Cover the parts boxes made of plastics with aluminum foil.
- Ground the soldering iron.
- Put a conductive mat on the work table.
- Do not touch the legs of IC or LSI with the fingers directly.

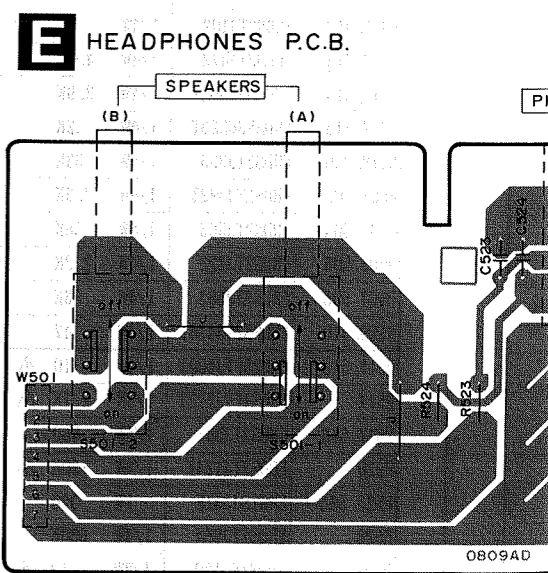
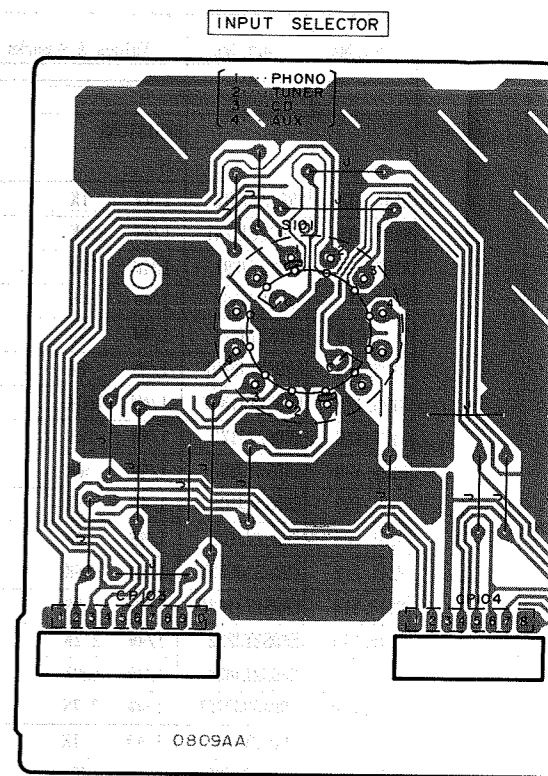
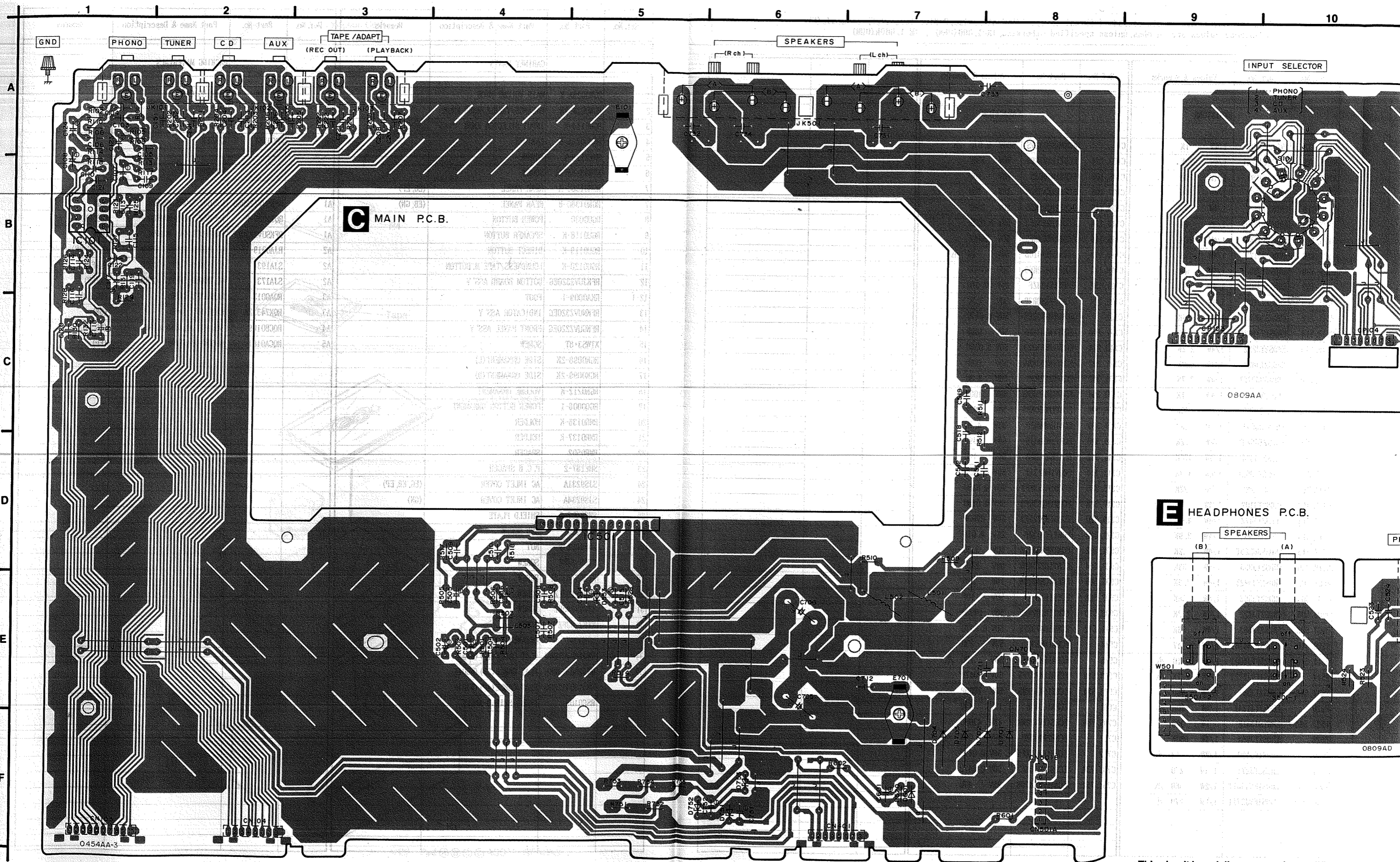


- Notes:  
 BLK...Black  
 GRY...Gray  
 ORG...Orange  
 BRN...Brown



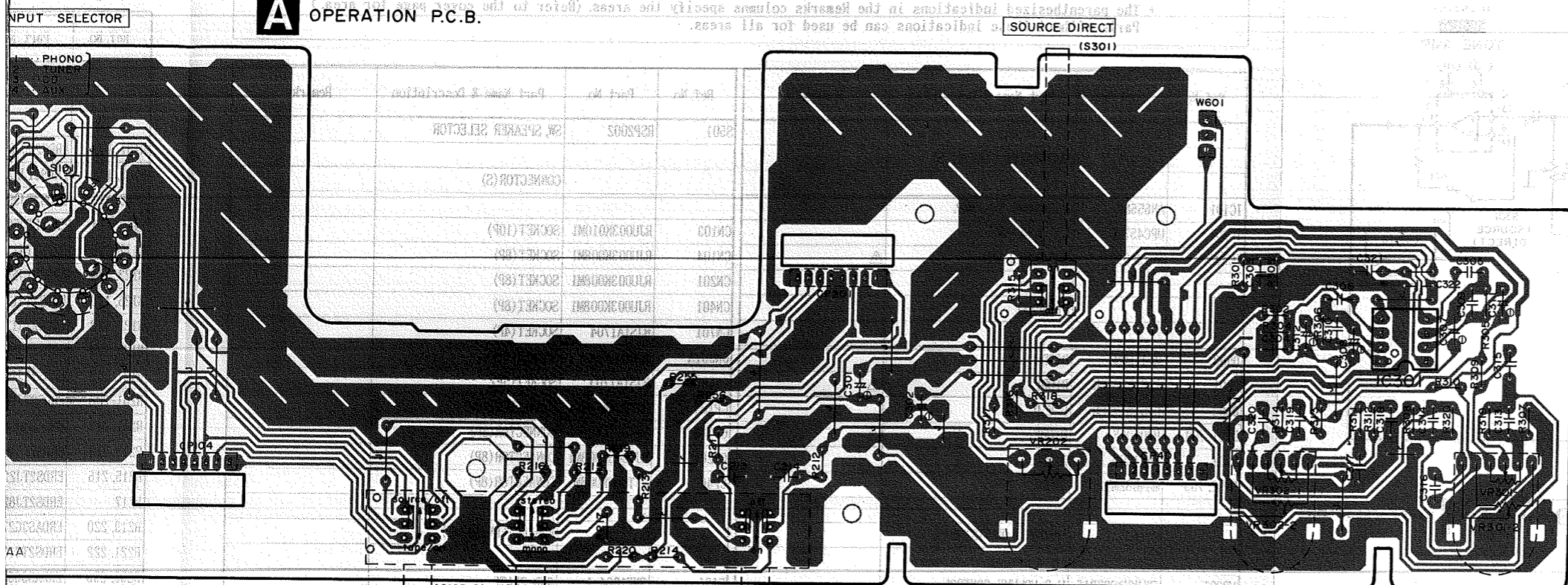


PRINTED CIRCUIT BOARDS (Parts list on pages 18, 19)



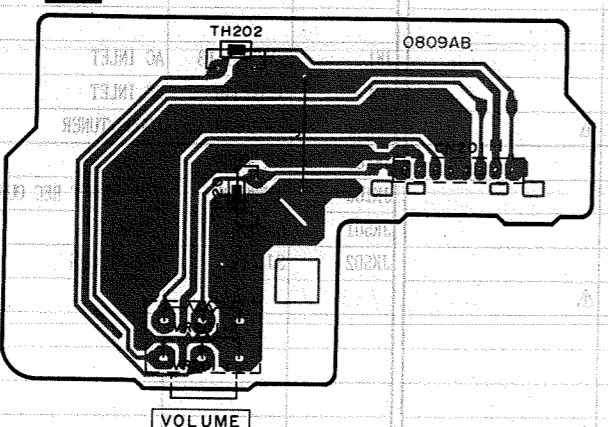
This circuit board diagram may be modified at any time without notice.

**A** OPERATION P.C.B.

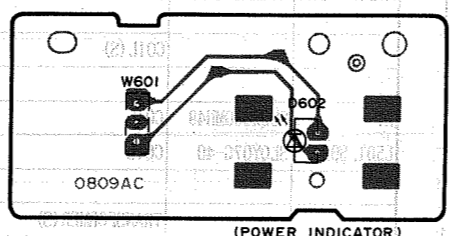


(TAPE / ADAPT) TAPE MONITOR MODE (S103-3) (S103-2) (S103-1) LOUDNESS BALANCE TREBLE BASS

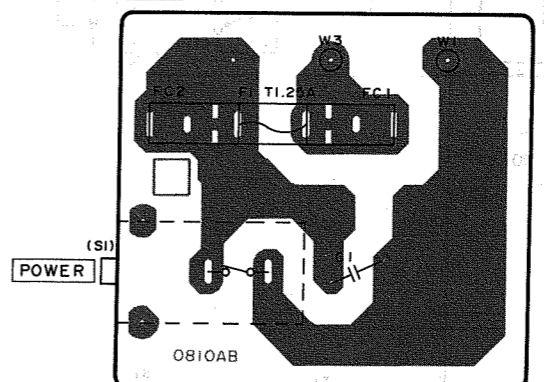
**B** VOLUME P.C.B.



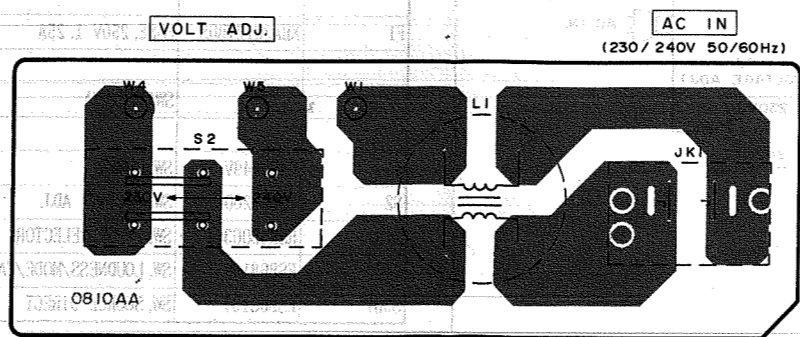
**D** LED P.C.B.



**F** POWER SWITCH P.C.B.

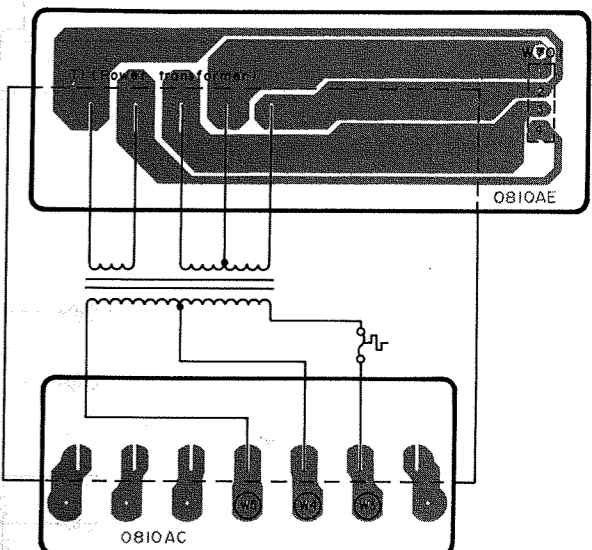


**G** VOLT. ADJ. / AC IN P.C.B.



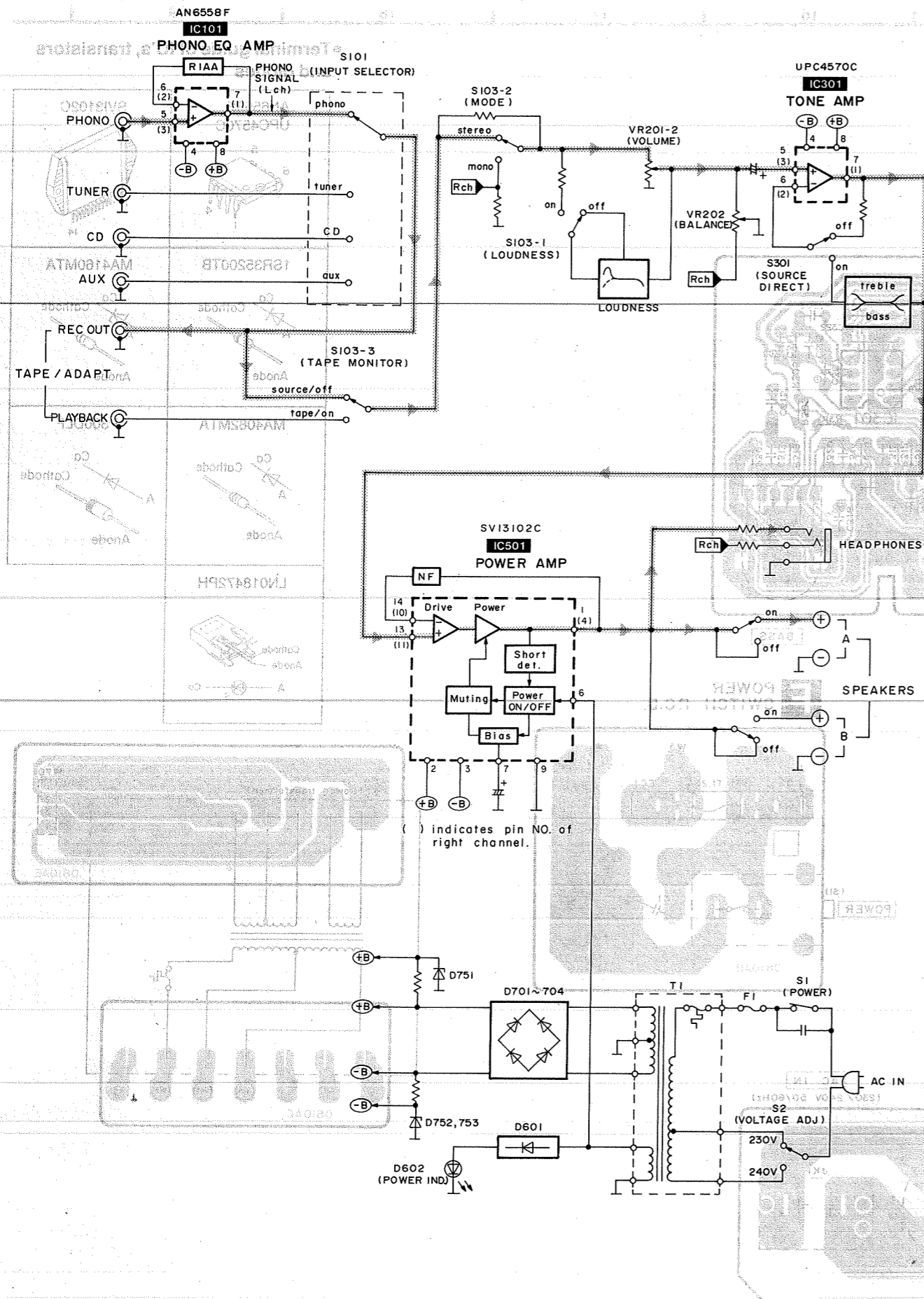
•Terminal guide of IC's, transistors and diodes

<p>AN6558F UPC4570C</p>	<p>SVI3102C</p>
<p>1SR35200TB</p>	<p>MA4160MTA</p>
<p>MA4082MTA</p>	<p>P300DLF</p>
<p>LN018472PH</p>	



may be modified at any time with the development of new technology.

■ BLOCK DIAGRAM



■ REPLACEMENT PARTS LIST

Notes : \* Important safety notice:  
 Components identified by  $\Delta$  mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.  
 \* The parenthesized indications in the Remarks column specify the areas. (Refer to the cover page for area.)  
 Parts without these indications can be used for all areas.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT (S)		S501	RSP2002	SW, SPEAKER SELECTOR	
		CONNECTOR (S)					
IC101	AN6558F	I. C. PHONO EQ. AMP.		CN103	RJU003K010M1	SOCKET (10P)	
IC301	UPC4570C	I. C. TONE AMP.		CN104	RJU003K008M1	SOCKET (8P)	
IC501	SVI3102C	I. C. POWER AMP.	$\Delta$	CN201	RJU003K008M1	SOCKET (8P)	
		DIODE (S)		CN401	RJU003K008M1	SOCKET (8P)	
D553	MA4160M	DIODE		CN701	RJS1A1704	SOCKET (4P)	
D601	1SR35200TB	DIODE	$\Delta$	CN501A	RJS1A1704	SOCKET (4P)	
D602	LN018472PH	L. E. D.	$\Delta$	CN501B	RJS1A1703	SOCKET (3P)	
D701-704	P300DLF	DIODE	$\Delta$	CP103	RJT003K010M1	CONNECTOR (10P)	
D751	MA4160M	DIODE		CP104	RJT003K008M1	CONNECTOR (8P)	
D752, 753	MA4082MTA	DIODE		CP201	RJT003K008M1	CONNECTOR (8P)	
		DIODE		CP401	RJT003K008M1	CONNECTOR (8P)	
		VARIABLE RESISTOR (S)					
VR201	EWJXA090B15	V. R. VOLUME CONTROL					
VR202	EWFDAD14G15	V. R. BALANCE CONTROL		E101	SNE1004-1	GND PLATE	
VR301	EW2XA000C15	V. R. BASS CONTROL		E701	SNE1004-1	GND PLATE	
VR302	EW2XA000C15	V. R. TREBLE CONTROL				FUSE HOLDER (S)	
		THERMISTOR (S)		FC1, 2	SJT390	FUSE HOLDER	$\Delta$
TH201, 202	ERTD22HL104T	THERMISTOR				JACK (S)	
		COIL (S)		JK1	SJS9231-1B	AC INLET	$\Delta$ (EG, EB, EP)
L1	SLQZ650MH49	COIL	$\Delta$	JK1	SJS9234B	AC INLET	$\Delta$ (GN)
L501, 502	SLQY07G-40	COIL		JK101	SJF3069N	PHONO/TUNER	
		TRANSFORMER (S)		JK102	SJF3069N	CD/AUX	
T1	RTP1M5B008-W	POWER TRANSFORMER	$\Delta$	JK103	SJF3069N	TAPE/ADAPT REC OUT/PLAYBACK	
		FUSE (S)		JK501	RJH4801-1	SPEAKER	
F1	XBA2C12TBOS	FUSE, 250V 1.25A	$\Delta$	JK502	SJJD19	HEADPHONES	
		SWITCH (ES)					
S1	ESB8249V	SW, POWER	$\Delta$				
S2	ESD26200A	SW, VOLTAGE ADJ.	$\Delta$				
S101	RSR4B003-1	SW, INPUT SELECTOR					
S103	ESB68139	SW, LOUDNESS/MODE/TAPE M.					
S301	ESB68137	SW, SOURCE DIRECT					

Notes : \*  
 \*

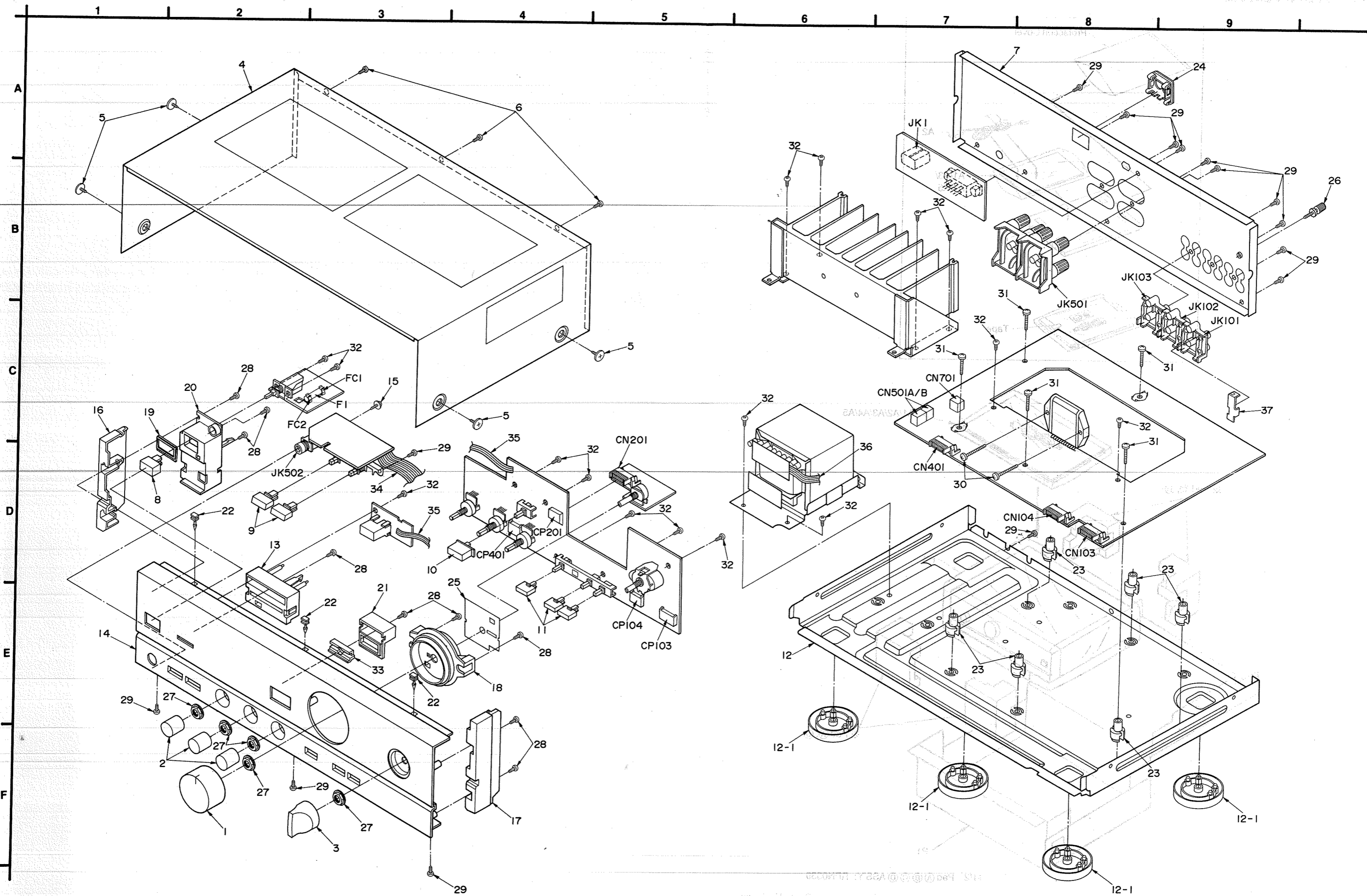
Ref. No.	Part No.	Part Name & Description	Remarks
R101, 102	ERDS2		
R105, 106	ERDS2		
R109, 110	ERDS2		
R113, 114	ERDS2		
R117, 118	ERDS2		
R123, 124	ERDS2		
R125, 126	ERDS2		
R127, 128	ERDS2		
R129, 130	ERDS2		
R131, 132	ERDS2		
R201-208	ERDS2		
R211, 212	ERDAS		
R213, 214	ERDS2		
R215, 216	ERDS2		
R217	ERDS2		
R219, 220	ERDAS		
R221, 222	ERDS2		
R255, 256	ERDAS		
R301, 302	ERDAS		
R303, 304	ERDS2		
R305, 306	ERDS2		
R307, 308	ERDS2		
R309, 310	ERDS2		
R311, 312	ERDS2		
R313, 314	ERDS2		
R315, 316	ERDAS3		
R317, 318	ERDAS3		
R319, 320	ERDS2		
R501, 502	ERDS2		
R503, 504	ERDS2		
R505, 506	ERDS2		
R507, 508	ERDS2		
R509, 510	ERDFS2		
R511, 512	ERD25F		
R514	ERDS1F		
R517, 518	ERDS2T		
R520	ERDS2T		
R523, 524	ERGISJ		
R528	ERDS2T		
R601	ERDS1F		
R602	ERDS2T		
R751, 752	ERDS1F		
R753-755	ERDS1F		

Notes : \* Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)  
 \* Resistance values are in ohms, unless specified otherwise, 1K=1,000(OHM) , 1M=1,000k(OHM)

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
RESISTORS			CAPACITORS		
R101, 102	ERDS2TJ102	1/4W 1K	C1	ECKWNS103ZVS	500V 0.01u Δ
R105, 106	ERDS2TJ224T	1/4W 220K	C103, 104	ECBT1H181KB5	50V 180P
R109, 110	ERDS2TJ391	1/4W 390	C105, 106	ECBT1H100J5	50V 10P
R113, 114	ERDS2TJ563	1/4W 56K	C107, 108	ECEA1AKA330B	10V 33U
R117, 118	ERDS2TJ271	1/4W 270	C109, 110	ECBT1H391KB5	50V 390P
R123, 124	ERDS2TJ680T	1/4W 68	C113, 114	ECQB1H223KF3	50V 0.022U
R125, 126	ERDS2TJ184T	1/4W 180K	C115, 116	ECQB1H562KF3	50V 5600P
R127, 128	ERDS2TJ123	1/4W 12K	C117, 118	ECEA1HKNO10B	50V 1U Δ
R129, 130	ERDS2TJ563	1/4W 56K	C119, 120	ECQB1H472KF3	50V 4700P
R131, 132	ERDS2TJ102	1/4W 1K	C121, 122	ECBT1E103ZF	25V 0.01U
R201-208	ERDS2TJ102	1/4W 1K	C123, 124	ECA1HPXS3R3B	50V 3.3U
R211, 212	ERDAS3G563T	1/4W 56K	C151	ECKR1H473ZF5	50V 0.047U
R213, 214	ERDS2TJ183T	1/4W 18K	C201-208	ECBT1H101KB5	50V 100P
R215, 216	ERDS2TJ222	1/4W 2.2K	C213, 214	ECQV1H563JZ3	50V 0.056U
R217	ERDS2TJ824	1/4W 820K	C221, 222	ECBT1H181KB5	50V 180P
R219, 220	ERDAS3G272T	1/4W 2.7K	C301, 302	ECA1HAP3R3B	50V 3.3U
R221, 222	ERDS2TJ102	1/4W 1K	C303-304	ECBT1H101KB5	50V 100P
R255, 256	ERDAS3G563T	1/4W 56K	C305, 306	ECBT1H820KB5	50V 82P
R301, 302	ERDAS3G561	1/4W 560	C307, 308	ECA1HAP4R7B	50V 4.7U
R303, 304	ERDS2TJ823T	1/4W 82K	C309, 310	ECBT1H390J5	50V 39P
R305, 306	ERDS2TJ474	1/4W 470K	C311, 312	ECA1HAP100B	50V 10U
R307, 308	ERDS2TJ392T	1/4W 3.9K	C313, 314	ECQV1H823JZ	50V 0.082U
R309, 310	ERDS2TJ223	1/4W 22K	C315, 316	ECQB1H153KF3	50V 0.015U
R311, 312	ERDS2TJ102	1/4W 1K	C317, 318	ECQB1H183KF3	50V 0.018U
R313, 314	ERDS2TJ472	1/4W 4.7K	C319, 320	ECQB1H272JF3	50V 2700P
R315, 316	ERDAS3G392T	1/4W 3.9K	C321, 322	ECBT1E103ZF	25V 0.01U
R317, 318	ERDAS3G223T	1/4W 22K	C501, 502	ECA1HPXS3R3B	50V 3.3U
R319, 320	ERDS2TJ333	1/4W 33K	C503, 504	ECBT1H271KB5	50V 270P
R501, 502	ERDS2TJ392T	1/4W 3.9K	C505, 506	ECEA1CKA220B	16V 22U
R503, 504	ERDS2TJ563	1/4W 56K	C507, 508	ECCR1H100K5	50V 10P
R505, 506	ERDS2TJ222	1/4W 2.2K	C509, 510	ECBT1H102KB5	50V 1000P
R507, 508	ERDS2TJ563	1/4W 56K	C511, 512	ECKR1H473ZF5	50V 0.047U
R509, 510	ERDFS2VJ470T	1/4W 47	C514	ECEA1HJ330	50V 33U
R511, 512	ERD25FVJ100T	1/4W 10 Δ	C515	ECEA1HN100SB	50V 10U Δ
R514	ERDS1FVJ272T	1/2W 2.7K Δ	C518, 519	ECKR1H473ZF5	50V 0.047U
R517, 518	ERDS2TJ561	1/4W 560	C523, 524	ECBT1H102KB5	50V 1000P
R520	ERDS2TJ124T	1/4W 120K Δ	C601	ECEA1CU470	16V 47U
R523, 524	ERG1SJ331E	1W 330	C705, 706	ECES42V472MX	42V 4700U
R528	ERDS2TJ684	1/4W 680K	C711	ECKR2H103ZU	500V 0.01U Δ
R601	ERDS1FJ120	1/2W 12 Δ	C712	ECKR1H473ZF5	50V 0.047U
R602	ERDS2TJ271	1/4W 270	C731-734	ECQB1H473KF3	50V 0.047U
R751, 752	ERDS1FVJ561T	1/2W 560 Δ	C751, 752	ECA1EPXS470B	25V 47U
R753-755	ERDS1FVJ271T	1/2W 270 Δ			

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
CABINET PARTS				PACKING MATERIALS			
1	RGW0025A-K	MAIN VOLUME KNOB		P1	RPG1116	PACKING CASE	
2	RGW0028-2K	BALANCE/TREBLE/BASS KNOB		P2	RPN0539	PAD	
3	RGW0144-K	INPUT SELECTOR KNOB		P3	XZB52X60A01Z	PROTECTION COVER	
4	RKMO036A-K	CABINET		P4	RPQ0164	SPACER	
5	SNE2129-1	SCREW		ACCESSORIES			
6	XTBS3+8JFZ1	SCREW					
7	RGRO138C-A	REAR PANEL	(EG, EP)				
7	RGRO138C-B	REAR PANEL	(EB, GN)	A1	RFKSUVZ220EG	INSTRUCTIONS MANUAL	(EG)
8	RGU0030	POWER BUTTON		A1	RQT1336-B	INSTRUCTIONS MANUAL	(EB, GN)
9	RGU0118-K	SPEAKER BUTTON		A1	RFKSUVZ220EP	INSTRUCTIONS MANUAL	(EP)
10	RGU0119-K	DIRECT BUTTON		A2	RJA0019-1K	AC POWER SUPPLY CORD	Δ (EG, EP)
11	RGU0120-K	LOUDNESS/TAPE M. BUTTON		A2	SJA193	AC POWER SUPPLY CORD	Δ (EB)
12	RFKJUVZ320EG	BOTTOM BOARD ASS'Y		A2	SJA173	AC POWER SUPPLY CORD	Δ (GN)
12-1	RKA0009-1	FOOT		A3	RQA0013	WARRANTY CARD	(EG, EB)
13	RFKNUVZ320EG	INDICATOR ASS'Y		A3	RQX7433ZA	WARRANTY CARD	(GN)
14	RFKGVZ220EG	FRONT PANEL ASS'Y		A4	RQCB0169	SERVICE CENTER LIST	(EG, EB, GN)
15	XTWS3+8T	SCREW		A5	RQCA0181	BLOCK DIAGRAM	(EP)
16	RGK0098-2K	SIDE ORNAMENT (L)					
17	RGK0099-2K	SIDE ORNAMENT (R)					
18	RGK0212-K	VOLUME ORNAMENT					
19	RGQ0006-1	POWER BUTTON ORNAMENT					
20	RMRO136-K	HOLDER					
21	RMRO137-K	HOLDER					
22	RMRO502	SPACER					
23	SHE187-2	P. C. B SPACER					
24	SJS9231A	AC INLET COVER	(EG, EB, EP)				
24	SJS9234A	AC INLET COVER	(GN)				
25	SMC6407-2	SHIELD PLATE					
26	SNE2123	GND SCREW					
27	SNE4021-1	NUT					
28	XTB3+8JFZ	SCREW					
29	XTBS3+8JFZ1	SCREW					
30	XTB3+16JFZ	SCREW					
31	XTB3+20JFZ	SCREW					
32	XTB3+8JFZ	SCREW					
33	RGK0097	ORNAMENT (GOLD LINE)					
34	RWJ1807070KQ	FLAT CABLE (7P) (W501)					
35	RWJ1803130KK	FLAT CABLE (3P) (W601)					
36	RWJ1804130QQ	FLAT CABLE (4P) (W701)					
37	RSC0105	PHONO SHIELD ANGLE					

# CABINET PARTS LOCATION



# ■ PACKAGING

