

Service Manual

Amplifier

Stereo Integrated Amplifier

SU-A800



Colour

(K) Black Type

Areas

Suffix for Model No.	Area	Colour
(E)	Europe	(K)
(EB)	Great Britain	
(EG)	Germany and Italy	
(EO)	Switzerland	
(GC)	Asia, Latin America, Middle Near East and Africa	
(GN)	Oceania	

SPECIFICATIONS (DIN 45 500)

20 Hz~20 kHz continuous power output both channels driven	2×55 W (8Ω)
1 kHz continuous power output both channels driven (THD: 1%)	2×70 W (8Ω) 2×100 W (4Ω)
63 Hz~12.5 kHz continuous power output both channels driven (THD: 0.7%)	2×65 W (8Ω) 2×85 W (4Ω)
Total harmonic distortion rated power at 20 Hz~20 kHz	0.01% (8Ω)
Intermodulation distortion (50 Hz: 7 kHz = 4:1, SMPTE) rated power	0.007% (8Ω)
Residual hum and noise	1 mV
Damping factor	60 (8Ω), 30 (4Ω)
Headphones output level/impedance	540 mV/47Ω
Load impedance	
A or B, BI-WIRING	4Ω~16Ω
A and B	8Ω~16Ω
Input sensitivity/impedance	
PHONO MM	2.5 mV/47 kΩ
PHONO MC	170 μV/220Ω
TUNER, CD, AUX, TAPE 1, TAPE 2	150 mV/22 kΩ
Phono maximum input voltage (1 kHz, RMS)	
PHONO MM	160 mV (IHF '66)
PHONO MC	12 mV (IHF '66)
S/N (rated power, 4Ω)	
PHONO MM	78 dB (85 dB, IHF '66)
PHONO MC	64 dB (S=250 μV, 66 dB, IHF '66)
TUNER, CD, AUX, TAPE 1, TAPE 2	91 dB (100 dB, IHF '66)
S/N at -26 dB power (4Ω)	
PHONO MM	68 dB
PHONO MC	63 dB
TUNER, CD, AUX, TAPE 1, TAPE 2	70 dB
S/N at 50 mW power (4Ω)	
PHONO MM	64 dB
PHONO MC	60 dB
TUNER, CD, AUX, TAPE 1, TAPE 2	64 dB

Frequency response

PHONO MM

RIAA standard curve ±0.8 dB
(30 Hz~15 kHz)

TUNER, CD, AUX, TAPE 1, TAPE 2

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

Output voltage

TAPE 1, TAPE 2, REC OUT

150 mV

Channel balance (AUX 250 Hz~6.3 kHz)

±1 dB

Channel separation (AUX 1 kHz)

50 dB

■ GENERAL

Power consumption

230 W

Power supply

For (E) area

AC 50 Hz/60 Hz, 230 V

For (EG), (EB), (EO), (GN) areas

AC 50 Hz/60 Hz, 230 V~240 V

For (GC) area

Dimensions (W × H × D)

430×136×365 mm

Weight

8.6 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

■ CONTENTS

	Page		Page
●BEFORE REPAIR	2	●SCHEMATIC DIAGRAM	13~19
●PROTECTION CIRCUITRY	2	●PRINTED CIRCUIT BOARD DIAGRAM	20~24
●ACCESSORIES	2	●WIRING CONNECTION DIAGRAM	25
●CAUTION FOR AC MAINS LEAD	3	●BLOCK DIAGRAM	26
●LOCATION OF CONTROLS	4	●FUNCTION OF IC TERMINALS	27
●CONNECTIONS	5~7	●REPLACEMENT PARTS LIST	28~30, 33, 34
●DISASSEMBLY INSTRUCTIONS	8~11	●CABINET PARTS LOCATION	31, 32
●HOW TO CHECK THE MAIN P.C.B.	11	●PACKAGING	34
●HOW TO REPLACE THE POWER IC	12		

■ BEFORE REPAIR

- (1) Turn off the power supply. Using a 10Ω, 10 W resistor, connect both ends of power supply capacitors (C701, C702) in order to discharge the voltage.
- (2) 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 50/60 Hz in NO SIGNAL mode is mode should be shown below with respect to supply voltage 230 V/240 V.

Power supply voltage	AC 230 V	AC 240 V	AC 110~127 V	AC 220~240 V
Consumed current 50 Hz	60~350 mA	50~340 mA	100~550 mA	50~340 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 functions 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:

1. Switch OFF the power.
2. Determine the cause of the problem and correct it.
3. 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.

For areas except (E) (EB) (EG) (EO) (GN)

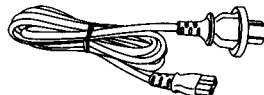
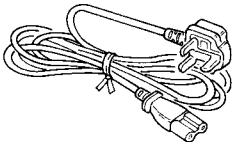
CAUTION:

The AC voltage differs according to the area.
Be sure to set the proper voltage in your area before use.
(For details, please refer to page 6.)

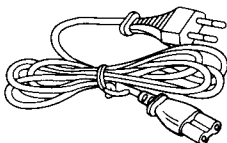
■ ACCESSORIES

Check the packing carton for these accessories.

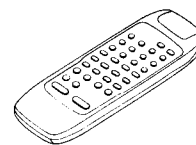
- AC power supply cord 1
(VJA0733) For (EB) area (RJA0036-K) For (GN) area



(RJA0019-2K) For (E), (EG), (EO) and (GC) areas



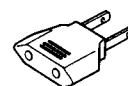
- Remote control transmitter (EUR642210) 1



- Batteries 2
UM-4 (AAA, R03)
Note: These are available on sale route.



- Power plug adaptor 1
(SJP5213-2) For (GC) area



■ CAUTION FOR AC MAINS LEAD



("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

CAUTION!

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:


Blue: Neutral

Brown: Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

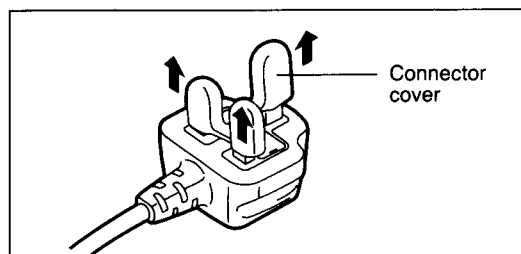
The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol .

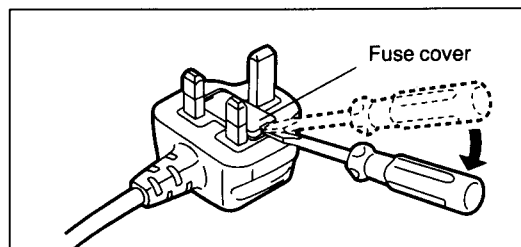
Before use

Remove the connector cover as follows.

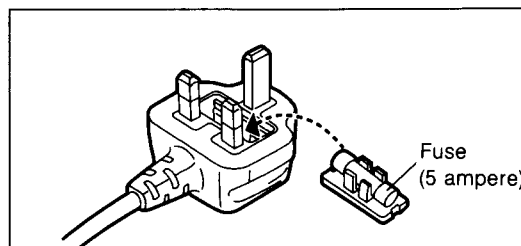


How to replace the fuse

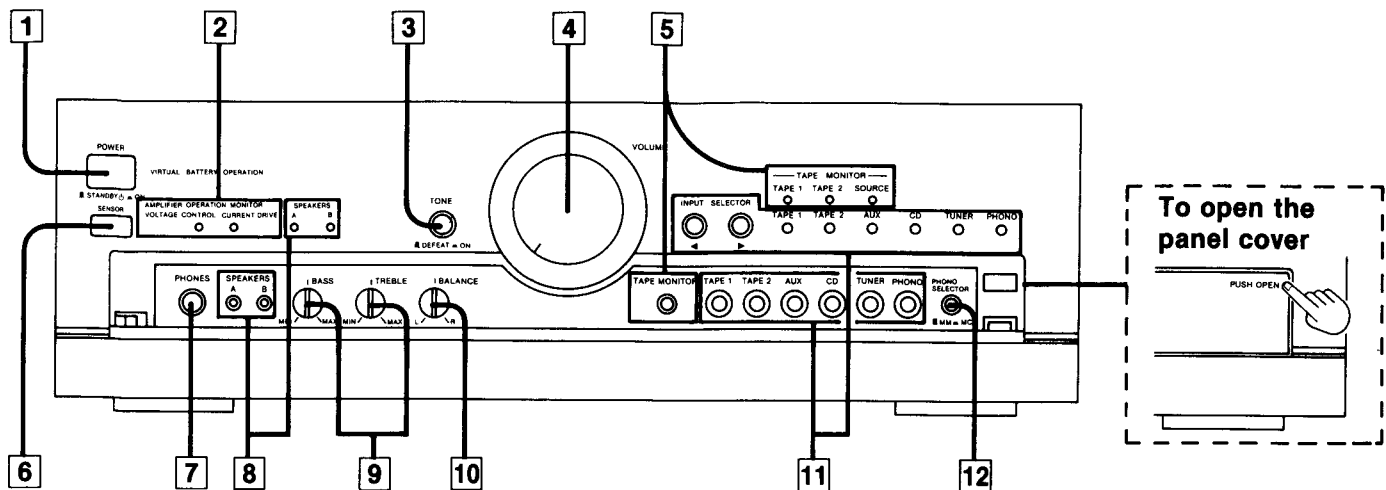
1. Remove the fuse cover with a screwdriver.



2. Replace the fuse and attach the fuse cover.



■ LOCATION OF CONTROLS



1 Power "STANDBY ⏻ / ON" switch (POWER, \blacksquare STANDBY ⏻ \blacksquare ON)

Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

2 Operation indicators (AMPLIFIER OPERATION MONITOR)

These indicators illuminate to indicate the operating condition of this unit.

VOLTAGE CONTROL:

When the power is switched ON, this indicator illuminates when the unit is in the operating condition.

CURRENT DRIVE:

When the power is switched ON, this indicator illuminates after about 4 seconds when the unit is in the operating condition.

If an abnormal condition in the circuitry is detected, such as DC voltage appearing in the output or a short-circuit of the positive (+) and negative (-) wires from the speaker terminals, the protection circuit functions and this indicator will not illuminate.

3 Tone control button (TONE)

This switch is used to set the tone control circuit (bass, treble) to ON or DEFEAT.

4 Volume control (VOLUME)

5 Tape-monitor button/indicators (TAPE MONITOR)

This button is used to monitor the recorded sound during recording.

TAPE 1

Set to this position to monitor the sound from the equipment connected to the "TAPE 1" terminals.

TAPE 2

Set to this position to monitor the sound from the equipment connected to the "TAPE 2" terminals.

SOURCE

Set to this position to listen to a phono disc, radio broadcast, compact disc, etc.

6 Remote control signal receptor (SENSOR)

Receives the signals from the remote control.

7 Headphones jack (PHONES) ($\varnothing 6$, 47 Ω)

8 Speaker select buttons/indicators (SPEAKERS)

These select buttons are used to select the speakers to be used.

9 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.

10 Balance control (BALANCE)

This control is used to adjust the left/right volume balance.

11 Input selectors/indicators (INPUT SELECTOR)

These selectors are used to select the sound source to be heard, such as a disc, radio broadcast, etc.

The input source can be selected either by sequentially changing the selection or by direct selection.

12 Phono cartridge selector (PHONO SELECTOR)

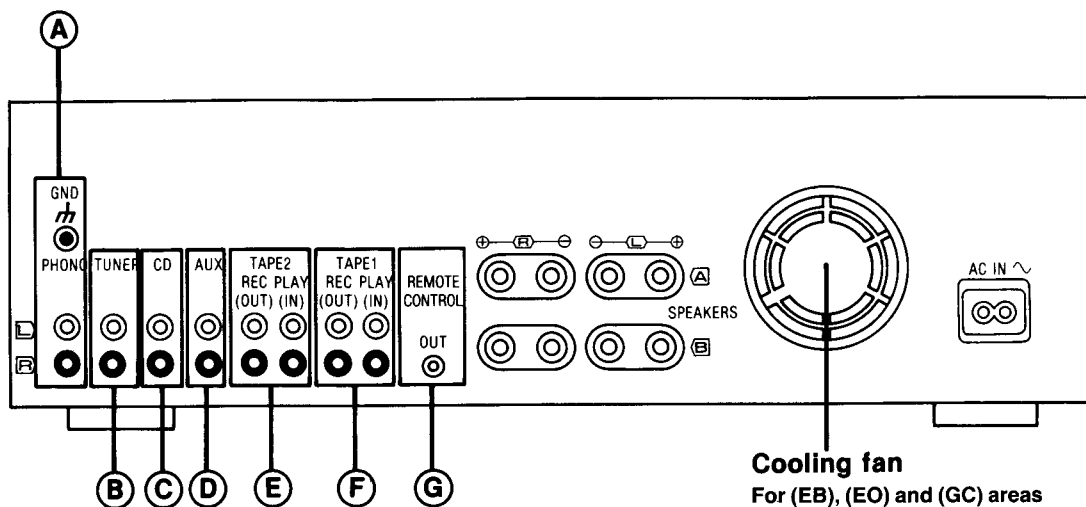
This selector should be set to the position which corresponds to the type of cartridge used on the turntable.

CONNECTIONS

To connect to each terminal

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

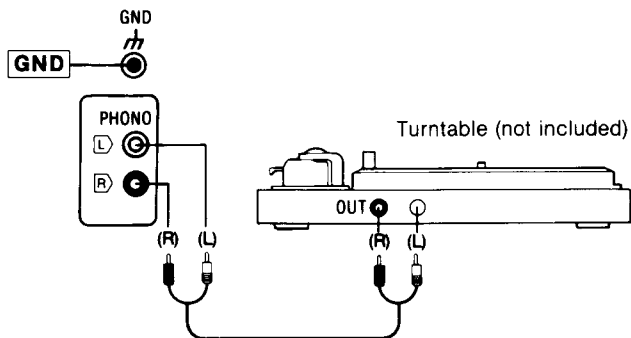
Stereo connection cable



•Phono input capacitance is about 470 pF.

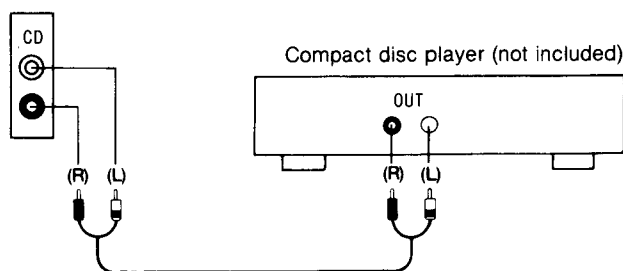
A "PHONO" terminals

Connect to a turntable.



C "CD" terminals

Connect to a compact disc player.

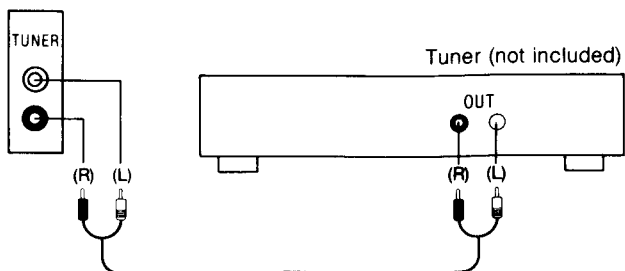


GND terminal

This terminal is for use with a turntable which has a ground wire.

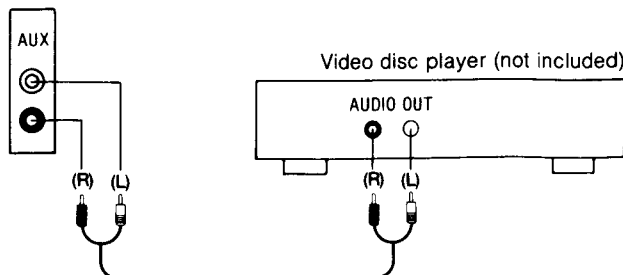
B "TUNER" terminals

Connect to a tuner.



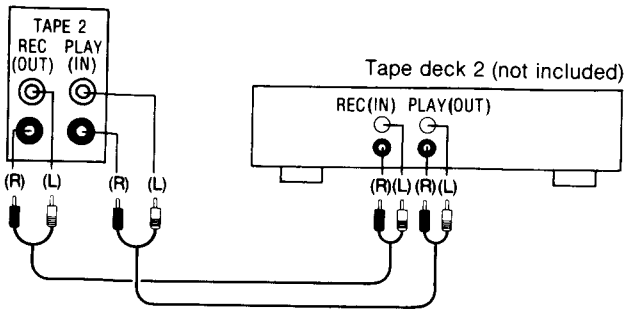
D "AUX" terminals

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



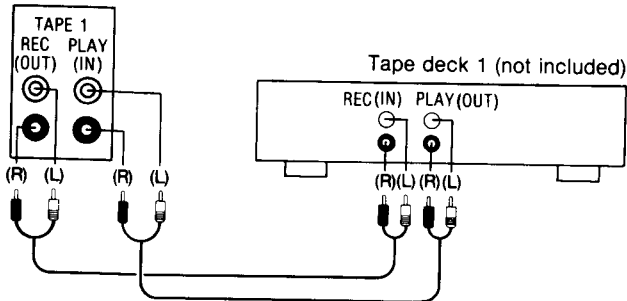
E "TAPE 2" terminals

Connect to a second tape deck (Tape deck 2) or a graphic equalizer, etc.



F "TAPE 1" terminals

Connect to a first tape deck (Tape deck 1) or a digital compact cassette deck (DCC), etc.



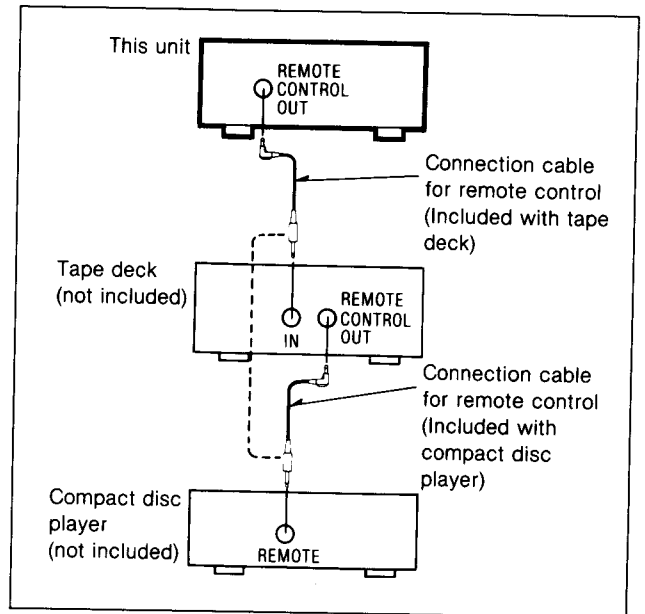
G "REMOTE CONTROL OUT" terminal

This terminal can be used only with Technics tape deck and compact disc player which have the appropriate remote control terminal. (Consult your dealer for details.)

Proper connection with remote control connection cables will allow control of some functions from this unit's remote control transmitter.

Connect to a tape deck and/or compact disc player as shown below.

If a tape deck is not being used, the compact disc player can be connected directly (dotted line).

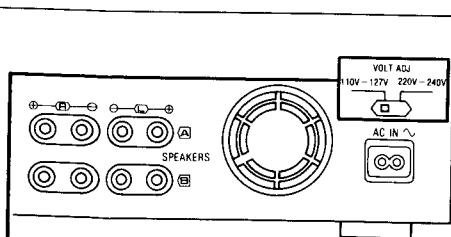


Note:

For a compact disc player with a remote control sensor, the above connection is not necessary.

To set the power voltage

For areas except (E), (EB), (EG), (EO) and (GN)



Set the voltage selector to "110 V - 127 V" or "220 V - 240 V" according to 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.

About the cooling fan

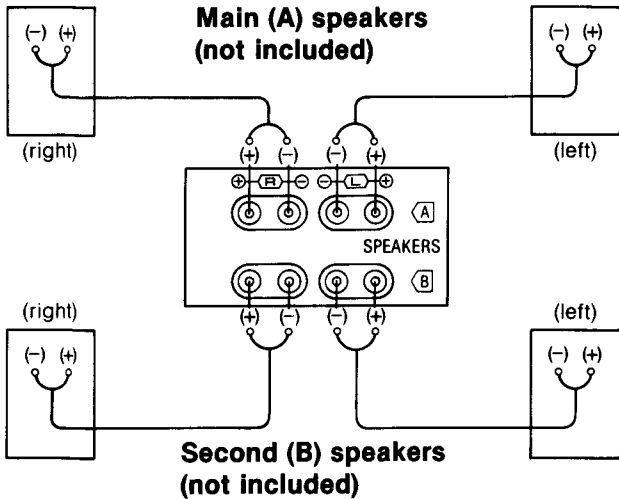
There is no cooling fan for some countries.

The cooling fan operates at high power output levels only.

To connect to speakers

One pair of speakers can be connected to the "A" terminals of this unit and one pair to the "B" terminals, or only one pair of bi-wired speakers can be connected to all terminals.

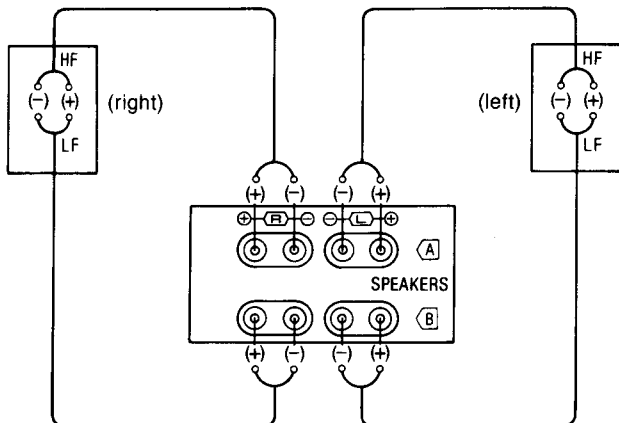
To connect main and/or second speakers



■ 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 bi-wired speakers (not included)



Note: Connect only bi-wired speakers in this way.

■ Load impedance

When bi-wired speakers are used: 4 – 16 ohms

■ Bi-wiring

The treble range and the bass range of the speakers are connected to the speaker terminals of the amplifier by using two speaker connection cords separately for each. As a result of making connections in this way, sound can be reproduced with much greater nuance and detail, with the feel-ings of air oscillation and deepness of sound provided by an input source that suppresses reciprocal band-range interference. (Refer to the operating instructions of the speakers.)

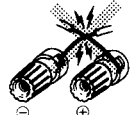
To connect cords to terminals

- 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:

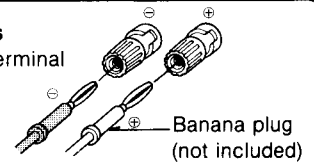
To prevent damage to circuitry, never short-circuit the positive (+) and negative (-) speaker wires.



For (EB) area only

When using banana plugs

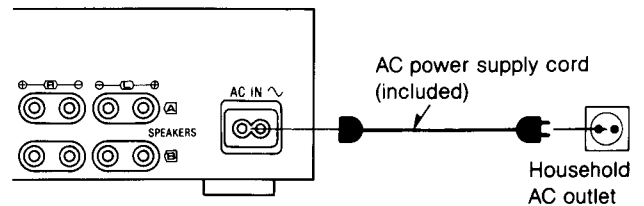
Use with the speaker terminal knob tightened completely.



To connect the AC power supply cord (included)

FOR UNITED KINGDOM ONLY
BE SURE TO READ THE CAUTION FOR THE AC POWER SUPPLY CORD ON PAGE 3 BEFORE CONNECTING THE AC POWER SUPPLY CORD.

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

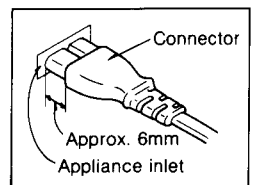


[For areas except (GN)]

Insertion of Connector

Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing.

However there is no problem using the unit.

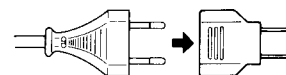


Note:

The configuration of the AC power supply cord differs according to area.

Not supplied for (E), (EB), (EG), (EO) and (GN) areas

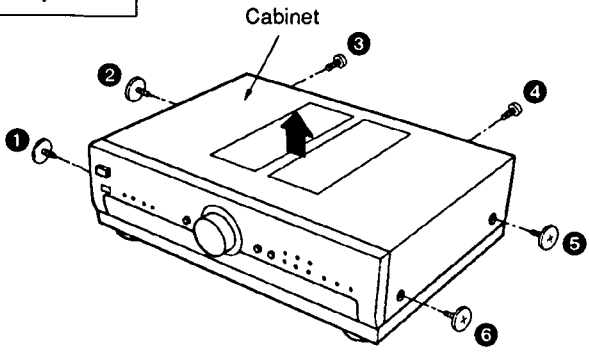
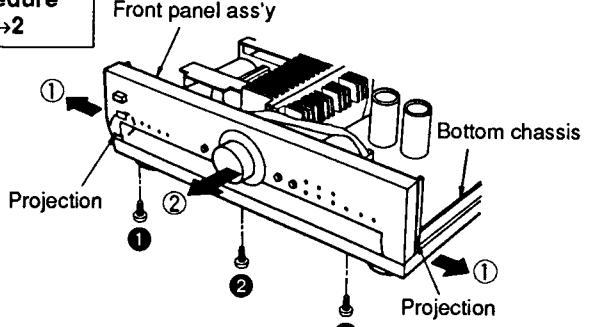
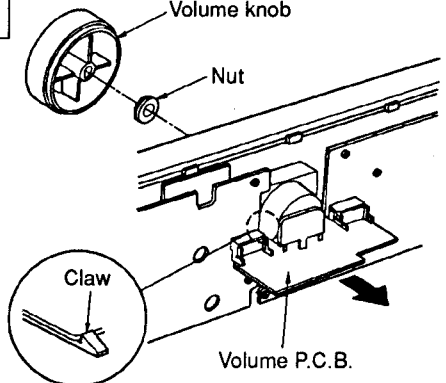
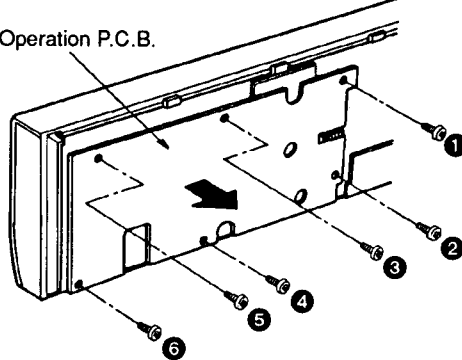
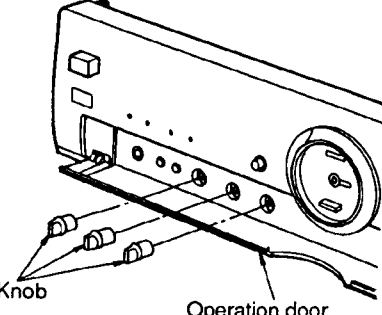
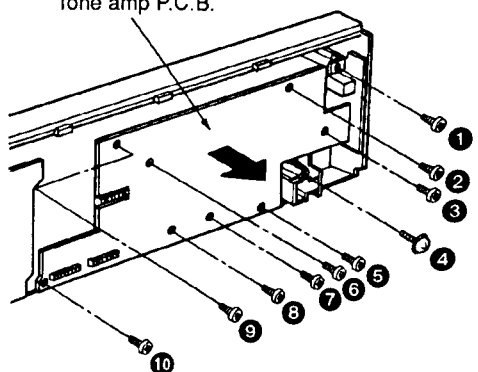
If the power plug will not fit your socket, use the power plug adaptor (included).

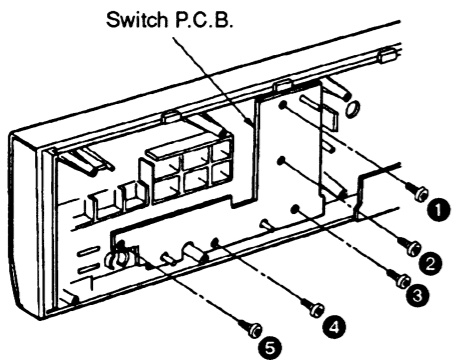
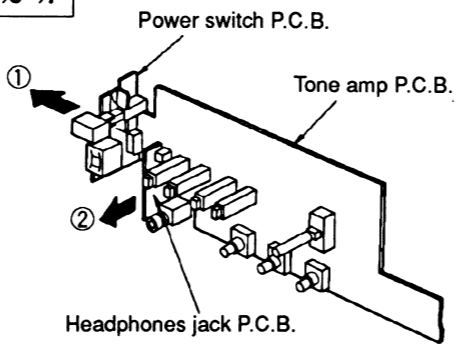


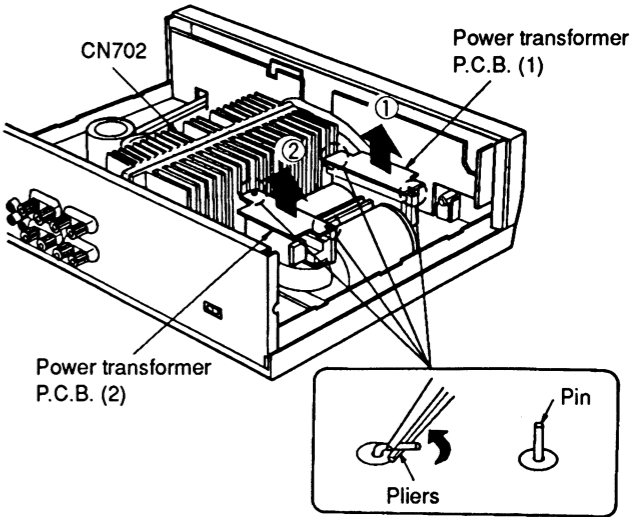
DISASSEMBLY INSTRUCTIONS

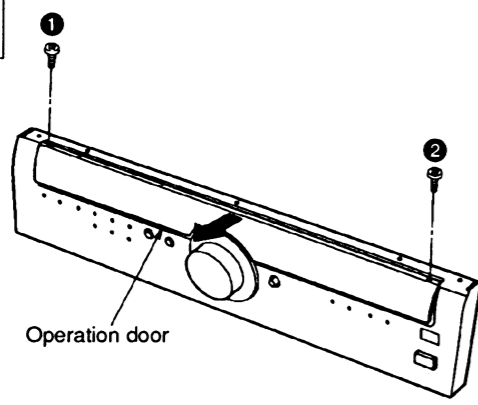
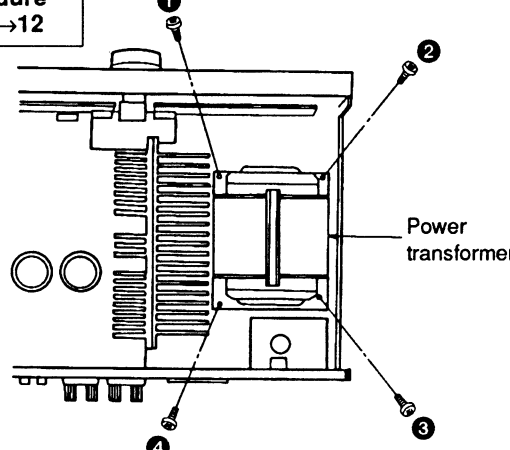
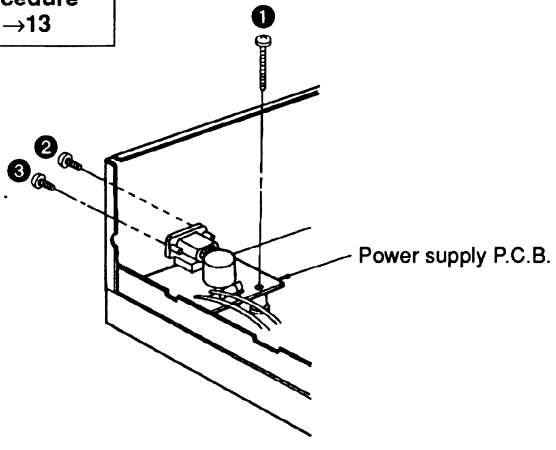
"ATTENTION SERVICER"

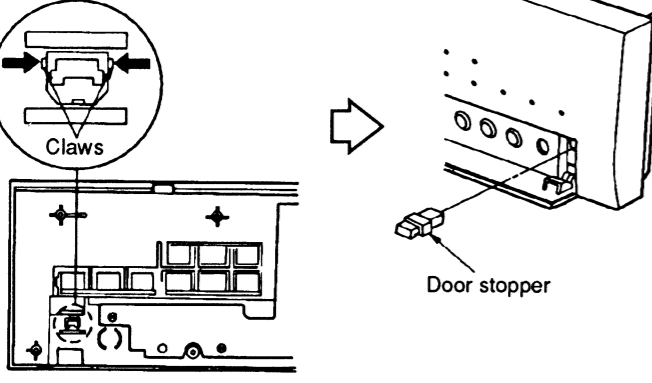
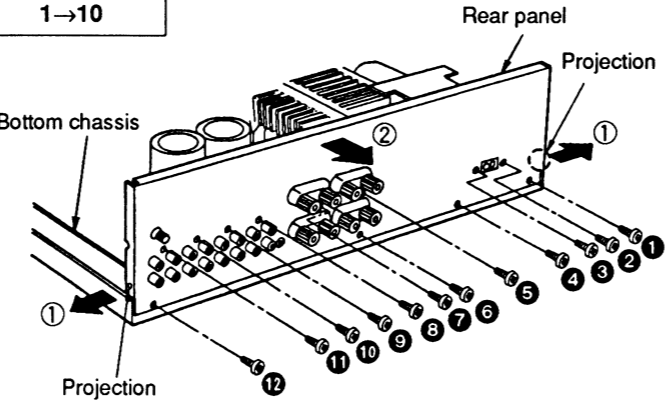
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

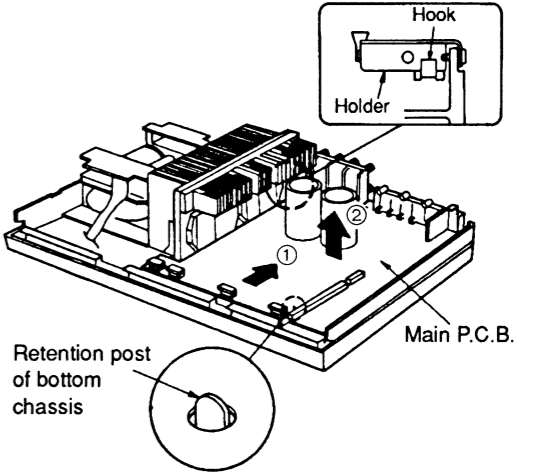
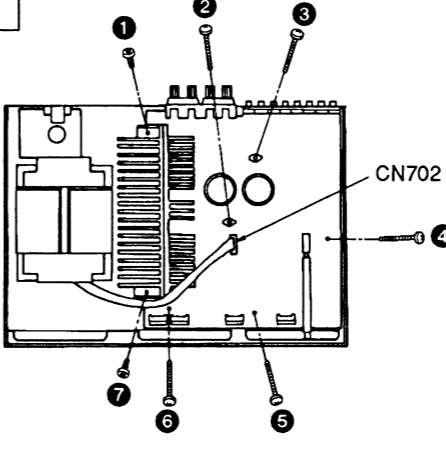
<p>Ref. No. 1</p>	<p>Removal of the cabinet</p>	<p>Ref. No. 2</p>	<p>Removal of the front panel ass'y</p>
<p>Procedure 1</p>	 <p>• Remove the 6 screws (1~6).</p>	<p>Procedure 1→2</p>	 <p>1. Remove the 3 screws (1~3). 2. Pull the front panel ass'y in both directions of arrow ① to unlock it from the projection of the bottom chassis. 3. Remove the front panel ass'y in the direction of arrow ②.</p>
<p>Ref. No. 3</p>	<p>Removal of the volume P.C.B.</p>	<p>Ref. No. 4</p>	<p>Removal of the operation P.C.B.</p>
<p>Procedure 1→2→3</p>	 <p>1. Pull out the volume knob. 2. Remove the nut. 3. Release the claw and then remove the volume P.C.B. in the direction of arrow.</p>	<p>Procedure 1→2→3→4</p>	 <p>1. Remove the 6 screws (1~6). 2. Remove the operation P.C.B. in the direction of arrow.</p>
<p>Ref. No. 5</p>	<p>Removal of the tone amp P.C.B.</p>		
<p>Procedure 1→2→3→5</p>	 <p>1. Open the operation door. 2. Remove the 3 knobs.</p> <p>※Removal of the knob •Stick the cellophane tape to the end of knob as shown bellow and pull out the knob in the direction of arrow.</p>		 <p>3. Remove the 10 screws (1~10). 4. Remove the tone amp P.C.B. in the direction of arrow.</p>

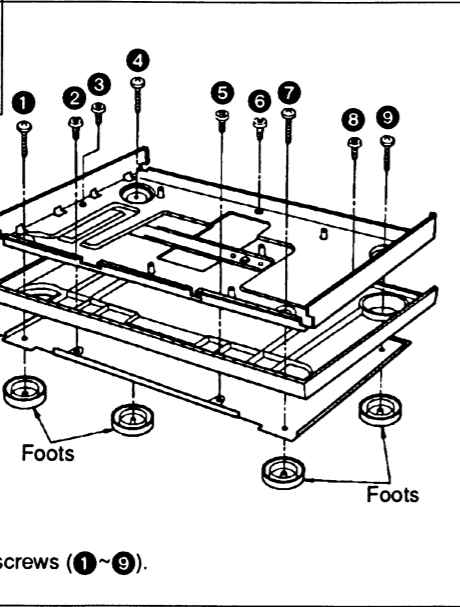
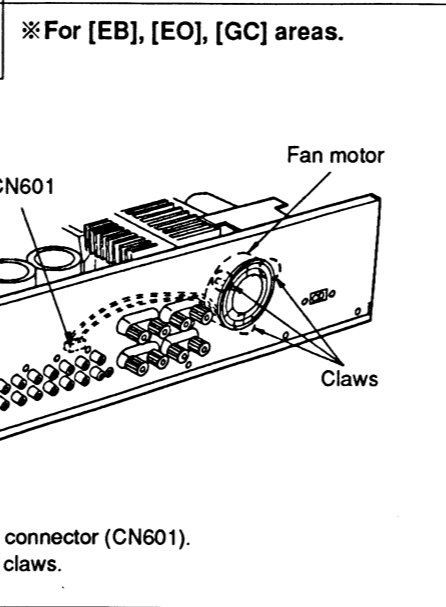
<p>Ref. No. 6</p> <p>Removal of the switch P.C.B.</p>	<p>Ref. No. 7</p> <p>Removal of the power switch P.C.B. and headphones jack P.C.B.</p>
<p>Procedure 1→2→3→4→6</p>  <p>• Remove the 5 screws (1~5).</p>	<p>Procedure 1→2→3→5→7</p>  <p>■ Removal of the power switch P.C.B. • Remove the power switch P.C.B. in the direction of arrow ①.</p> <p>■ Removal of the headphones jack P.C.B. • Remove the headphones jack P.C.B. in the direction of arrow ②.</p>

<p>Ref. No. 11</p> <p>Removal of the power transformer P.C.B. (1) and (2)</p>	
<p>Procedure 1→11</p> <p>■ Removal of the power transformer P.C.B. (1) 1. Remove the 1 connector (CN702). 2. Straighten the 2 pins with pliers or any similar tools. 3. Pull out the power transformer P.C.B. (1) in the direction of arrow ①.</p> <p>■ Removal of the power transformer P.C.B. (2) 1. Straighten the 2 pins with pliers or any similar tools. 2. Pull out the power transformer P.C.B. (2) in the direction of arrow ②.</p>	<p>• Remove the 4 screws (1~4).</p> <p>• Remove the 3 screws (1~3).</p>

<p>Ref. No. 8</p> <p>Removal of the operation door</p>	<p>Ref. No. 12</p> <p>Removal of the power transformer</p>	<p>Ref. No. 13</p> <p>Removal of the power supply P.C.B.</p>
<p>Procedure 1→2→8</p>  <p>1. Open the operation door. 2. Remove the 2 screws (1, 2). 3. Remove the operation door in the direction of arrow.</p>	<p>Procedure 1→11→12</p>  <p>• Remove the 4 screws (1~4).</p>	<p>Procedure 1→13</p>  <p>• Remove the 3 screws (1~3).</p>

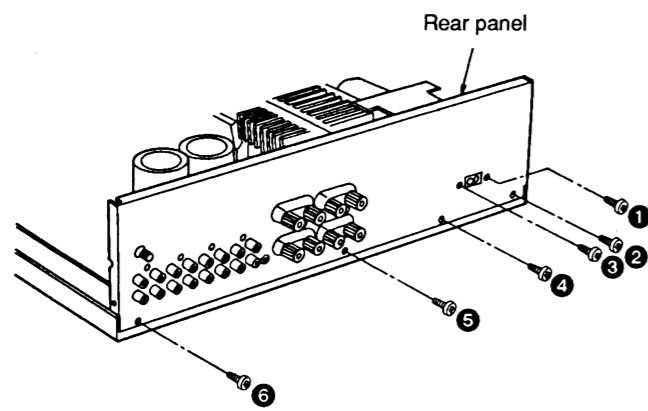
<p>Ref. No. 9</p> <p>Removal of the door stopper</p>	<p>Ref. No. 10</p> <p>Removal of the rear panel</p>
<p>Procedure 1→2→3→4→9</p>  <p>• Release the 2 claws.</p>	<p>Procedure 1→10</p>  <p>1. Remove the 12 screws (1~12). 2. Pull the rear panel in both directions of arrow ① to unlock it from the projection of the bottom chassis. 3. Remove the rear panel in the direction of arrow ②.</p>

<p>Ref. No. 14</p> <p>Removal of the main P.C.B.</p>	 <p>3. Lift the main P.C.B. off the retention post on the bottom chassis. 4. Release the hook by sliding the main P.C.B. in the direction of arrow ①. 5. Remove the main P.C.B. in the direction of arrow ②.</p>
<p>Procedure 1→2→10→14</p>  <p>1. Remove the 7 screws (1~7). 2. Remove the 1 connector (CN702).</p>	<p>• Remove the 3 screws (1~3).</p>

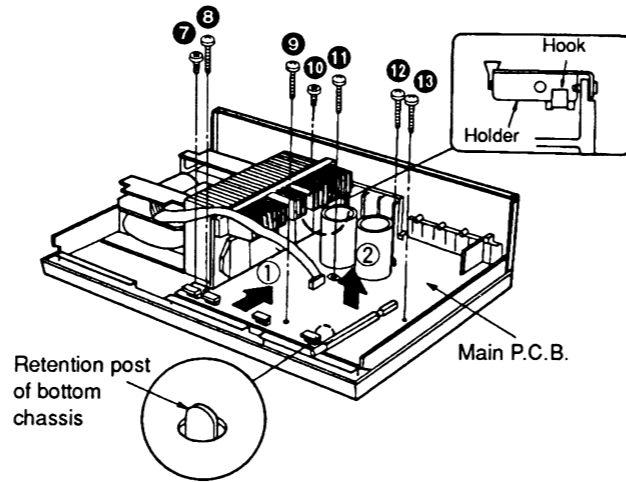
Ref. No. 15	Removal of the rubber base, bottom board and foots	Ref. No. 16	Removal of the fan motor
Procedure 1→2→10→11→12 →13→14→15	 <p>Remove the 9 screws (1~9).</p>	Procedure 1→16	<p>※ For [EB], [EO], [GC] areas.</p>  <p>1. Remove the 1 connector (CN601). 2. Release the 3 claws.</p>

■ HOW TO CHECK THE MAIN P.C.B.

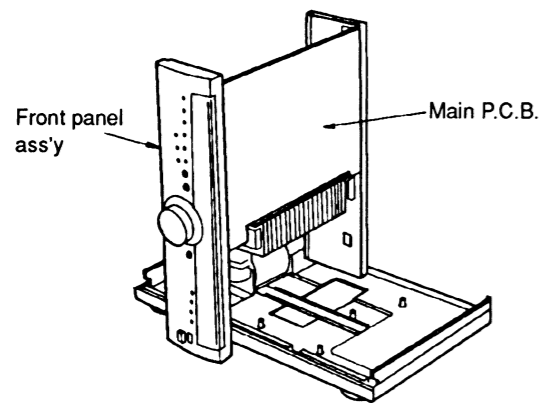
1. Remove the cabinet (see Ref. No. 1 of the disassembly instructions).
2. Remove the front panel ass'y (see Ref. No. 2 of the disassembly instructions).



3. Remove the 6 screws (1~6).

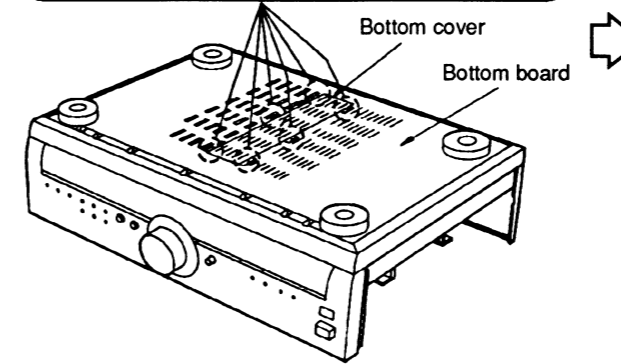
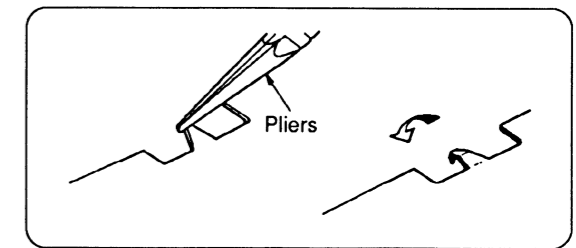
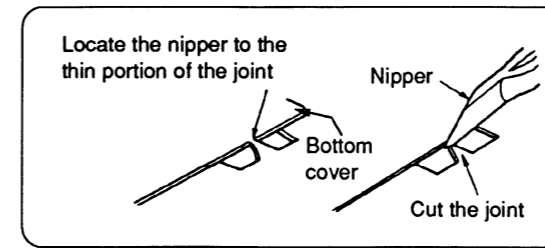


4. Remove the 7 screws (7~13).
5. Lift the main P.C.B. off the retention post on the bottom chassis.
6. Release the hook by sliding the main P.C.B. in the direction of arrow ①, and then remove the main P.C.B. equipped with rear panel in the direction of arrow ②.

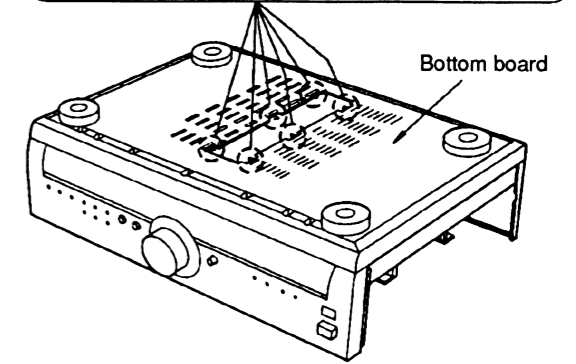


7. Reinstall the front panel ass'y to the main P.C.B.
8. When checking the soldered surface of the main P.C.B. and replacing the parts, do as shown in above.

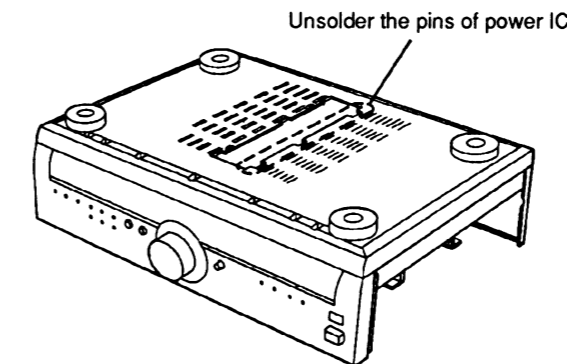
■ HOW TO REPLACE THE POWER IC



1. Cut the joints (6 portions) between bottom cover and bottom board with nipper.



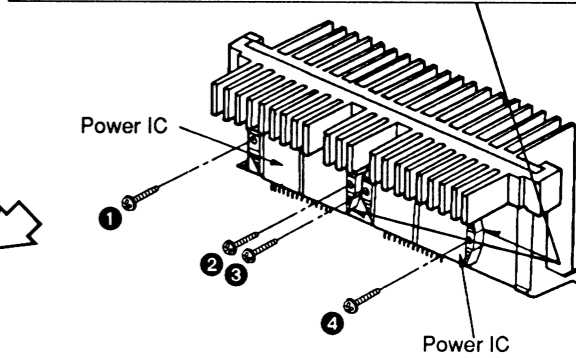
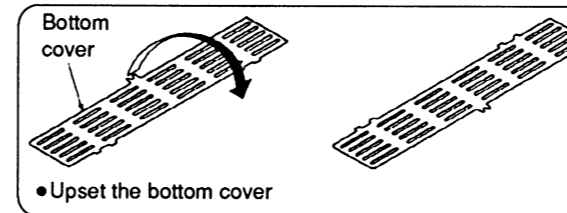
2. After cutting the joints (6 portions), bend the portions of the bottom board in the direction of arrow with pliers.



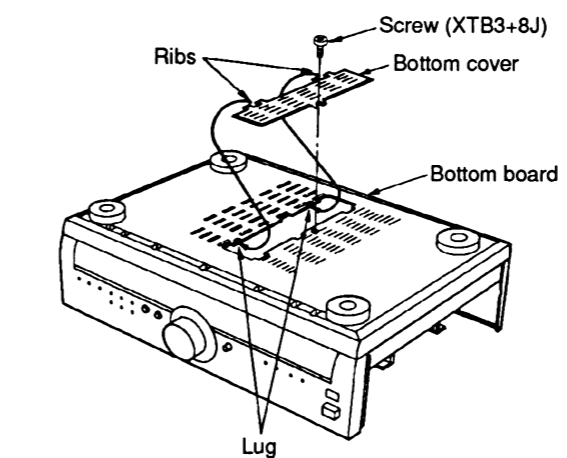
3. When replacing the power IC, unsolder the pins of power IC on the soldered surface.

CAUTION

- After replacing the power IC, apply a sufficient quantity of compound grease (RFKX0002/SZZ0L15) between the heat sink and the power IC. (Radiation of power IC)
- Tighten enough the 4 screws (1~4) after replacing the power IC. Otherwise, the heat radiation works little.



4. Then remove the 4 screws (1~4) fixed to the power IC.



5. After replacement the power IC, upset the bottom cover and align the ribs of the bottom cover to the lugs on the bottom board.
6. After mounting the bottom cover on the bottom board, fix it with a screw (XTB3+8J).

SCHEMATIC DIAGRAM (Parts list on pages 28, 29, 33 and 34)

Notes:

- S1 : Power "STANDBY (ON)" switch in "on" position. (POWER, ■ STANDBY (ON) ■ ON)
- S2 : Voltage select switch in "220-240 V" position. (VOLT ADJ) for (GC) area
- S103 : Phono cartridge select switch in "MC" position. (PHONO SELECTOR)
- S204 : Tone control switch in "on" position. (TONE)
- S801 : Tape-monitor switch. (TAPE MONITOR)
- S802 : Input selectors switch. (TAPE 1)
- S803 : Input selectors switch. (TAPE 2)
- S804 : Input selectors switch. (AUX)
- S805 : Input selectors switch. (CD)
- S806 : Input selectors switch. (TUNER)
- S807 : Input selectors switch. (PHONO)
- S808 : Input selector switch. (◀)
- S809 : Input selector switch. (▶)
- S810 : Speaker select switch. (SPEAKERS A)
- S811 : Speaker select switch. (SPEAKERS B)

●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. No mark: Power ON

●Important safety notice:
Components identified by Δ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

●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.

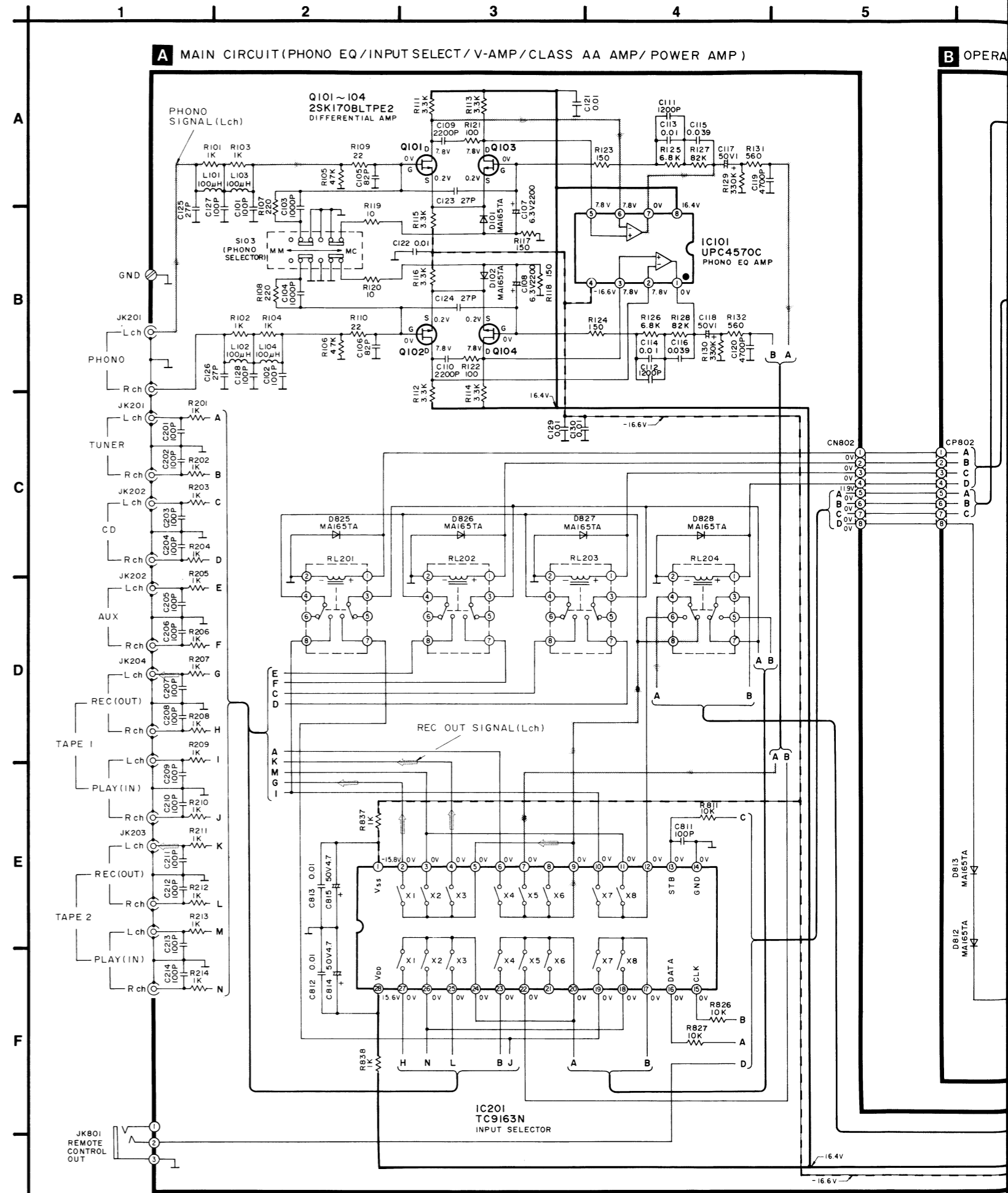
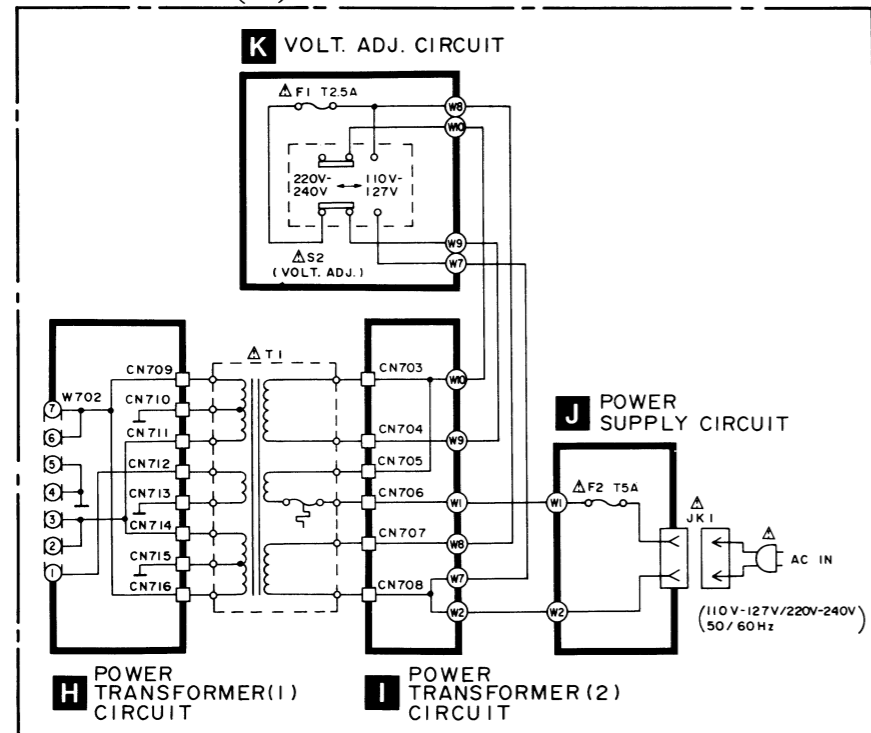
●Voltage and signal line

- : Positive voltage line.
- - - : Negative voltage line.
- ⋯ : Phono signal line.
- : Recording output signal line.

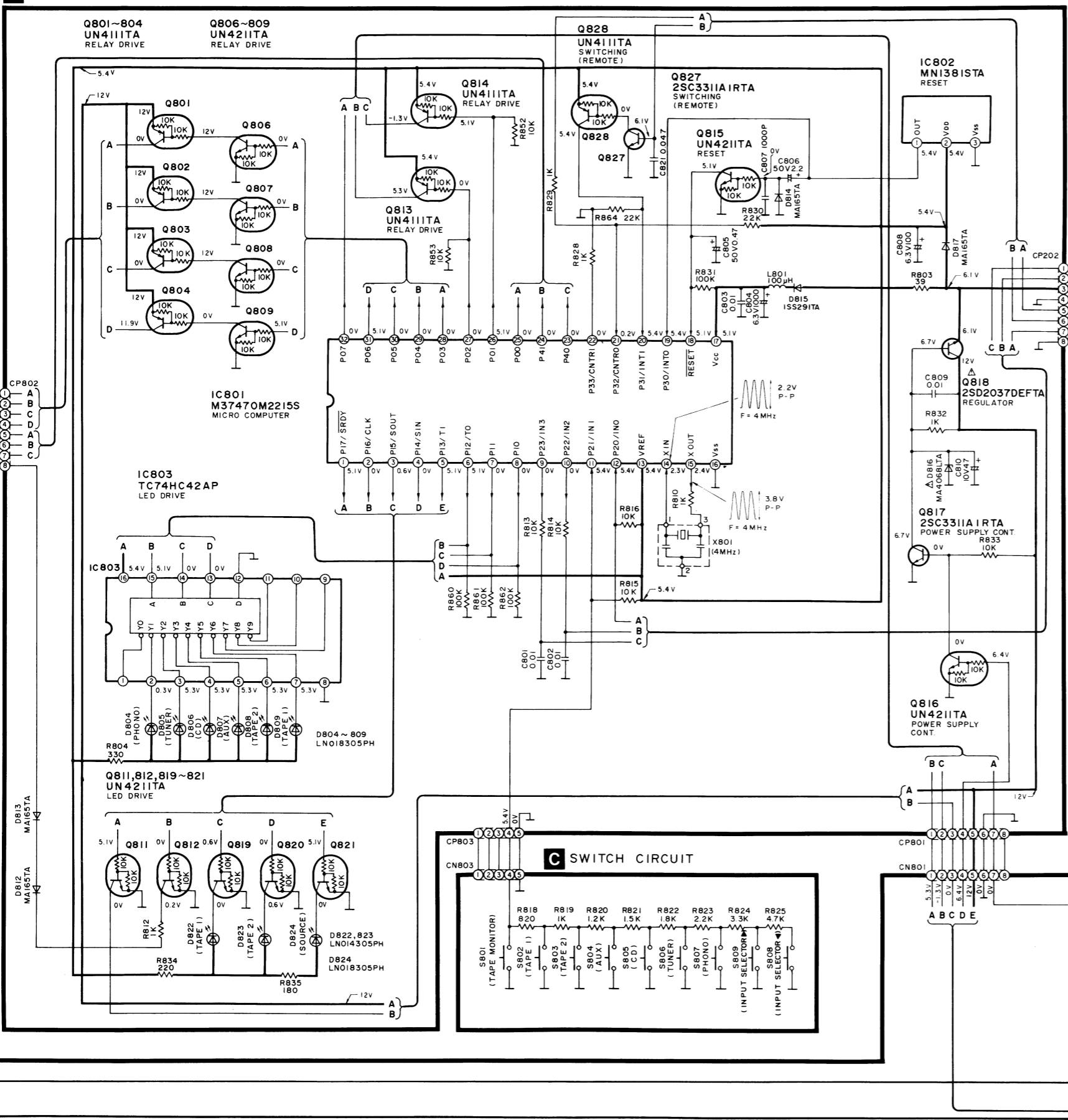
●The supply part number is described alone in the replacement parts list.

Part No.	Production Part No.	Supply Part No.
Z801	RCDHC-237-E	RCDHC-237

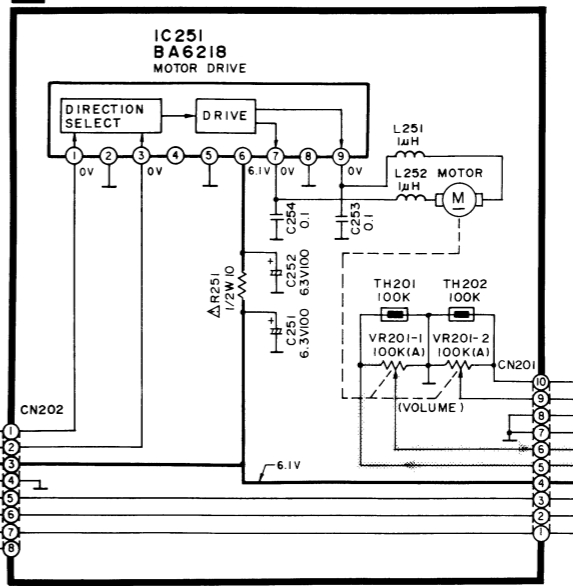
Power Source For (GC) area.



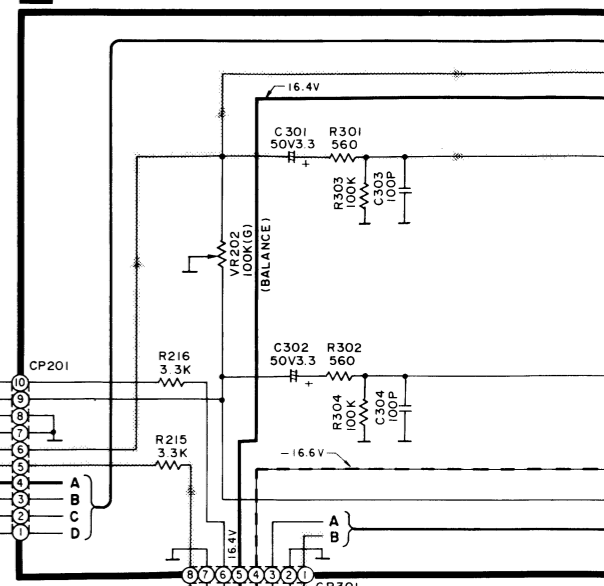
B OPERATION CIRCUIT



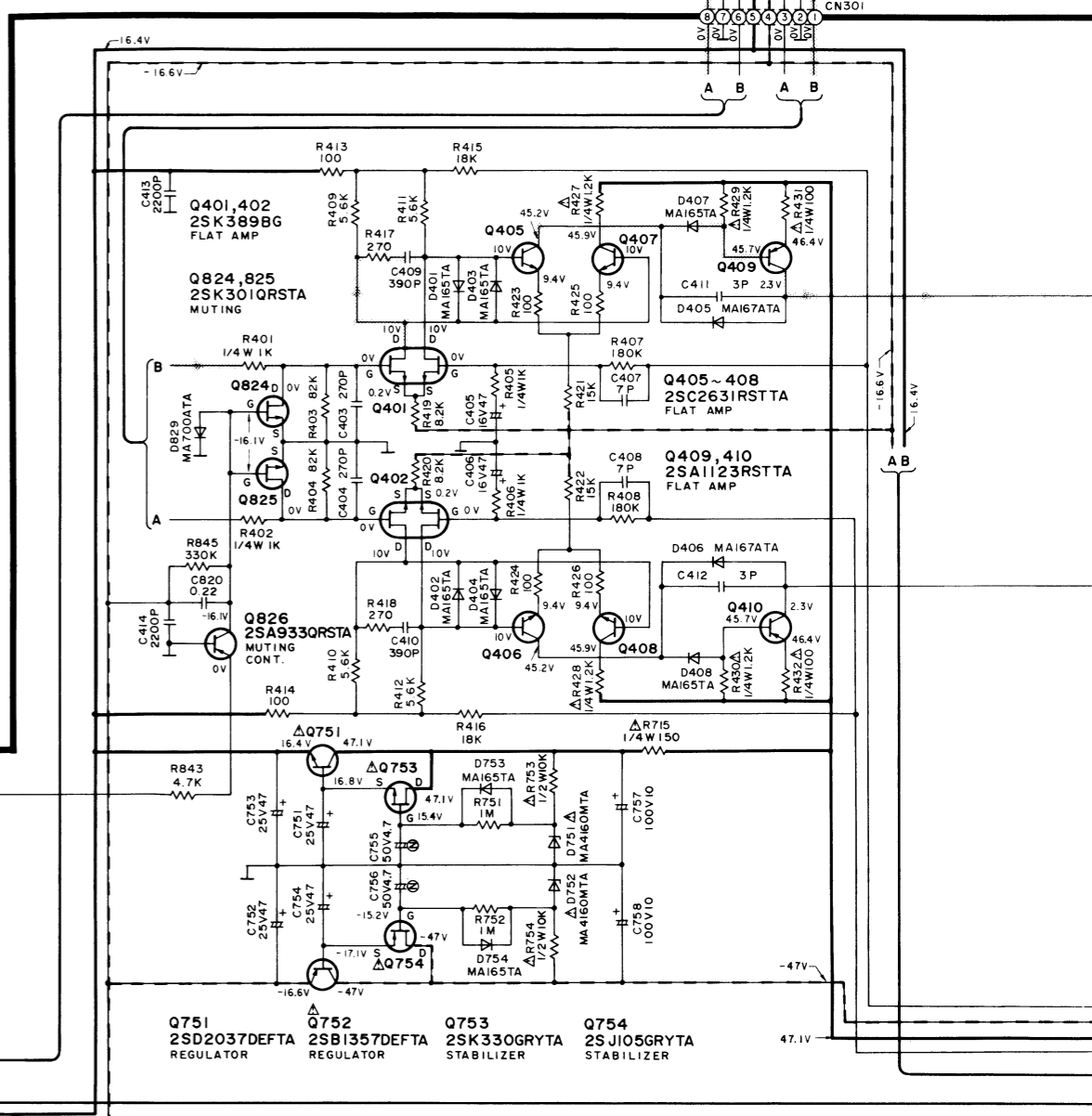
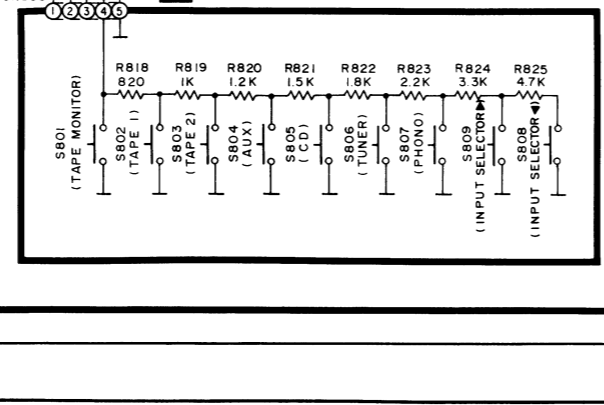
D VOLUME CIRCUIT

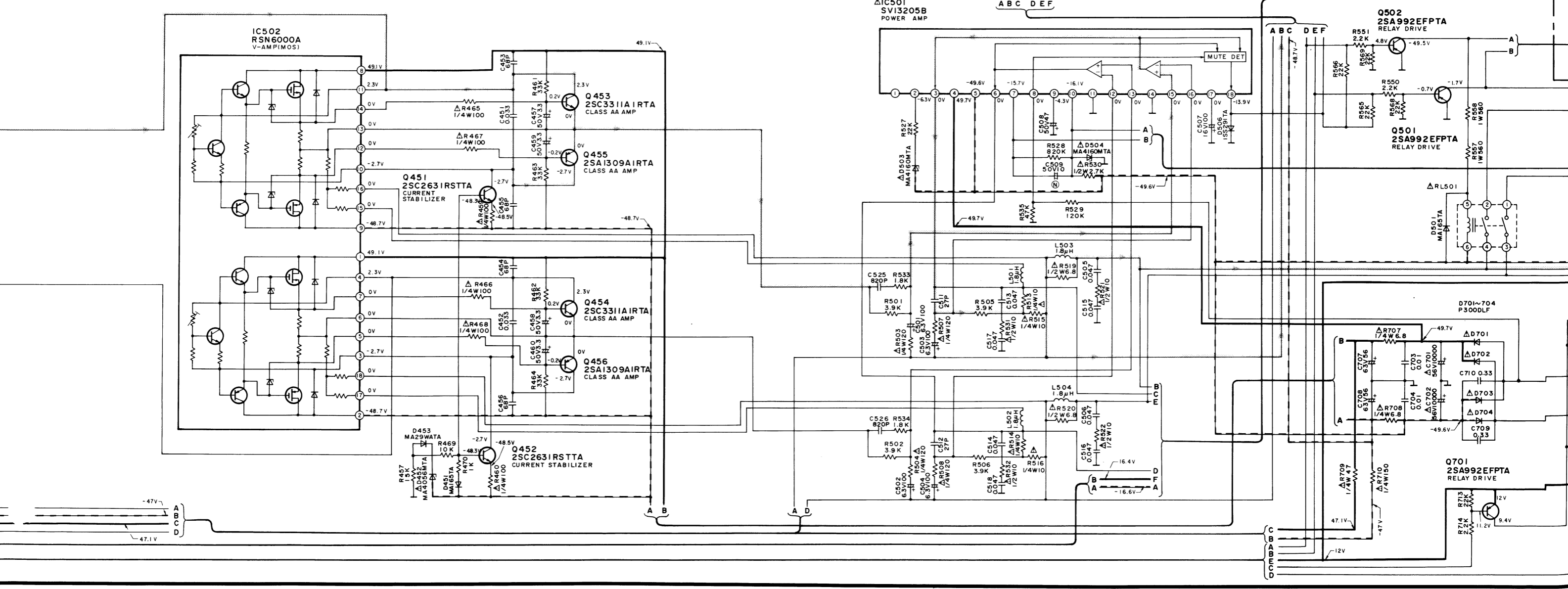
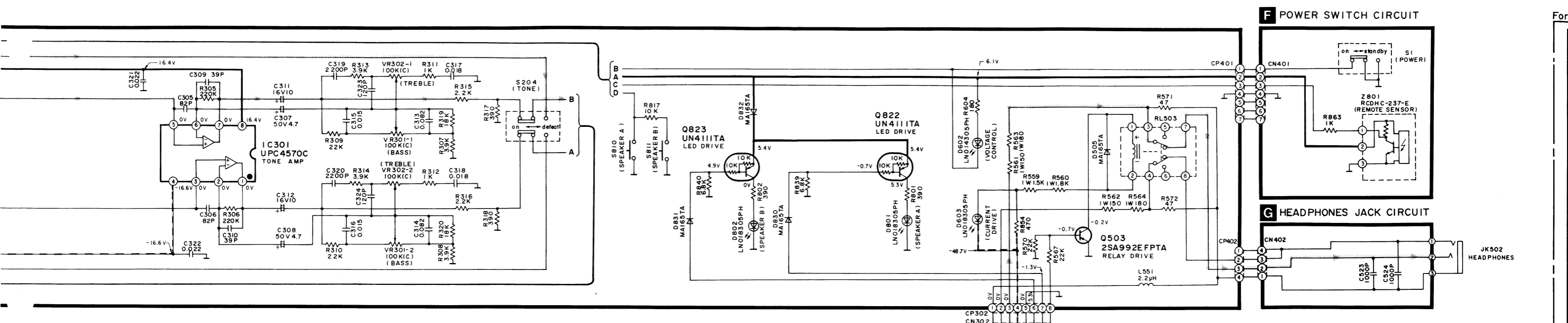


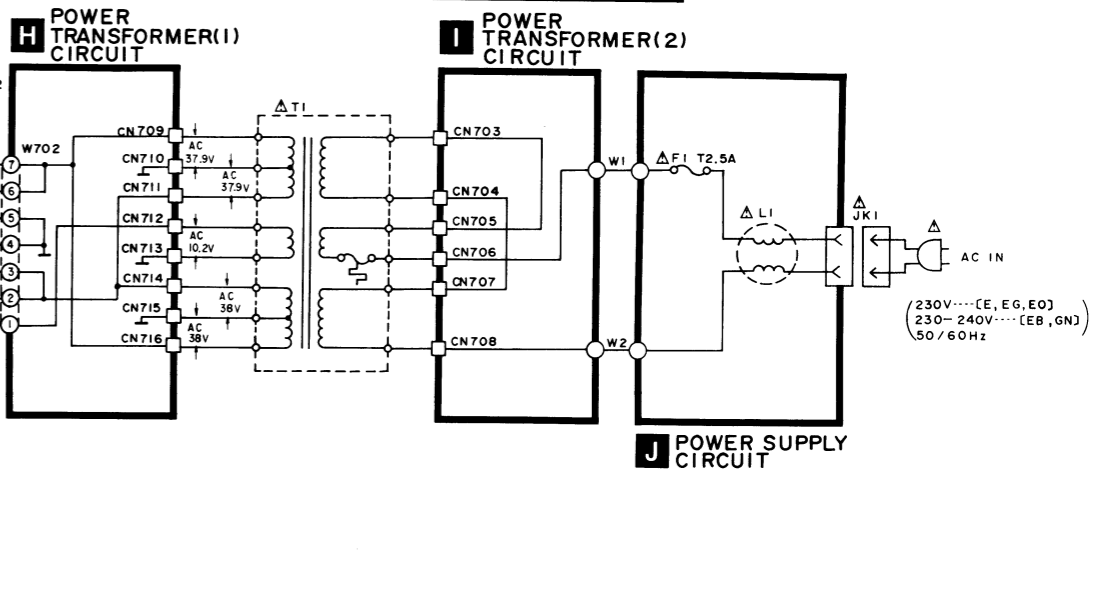
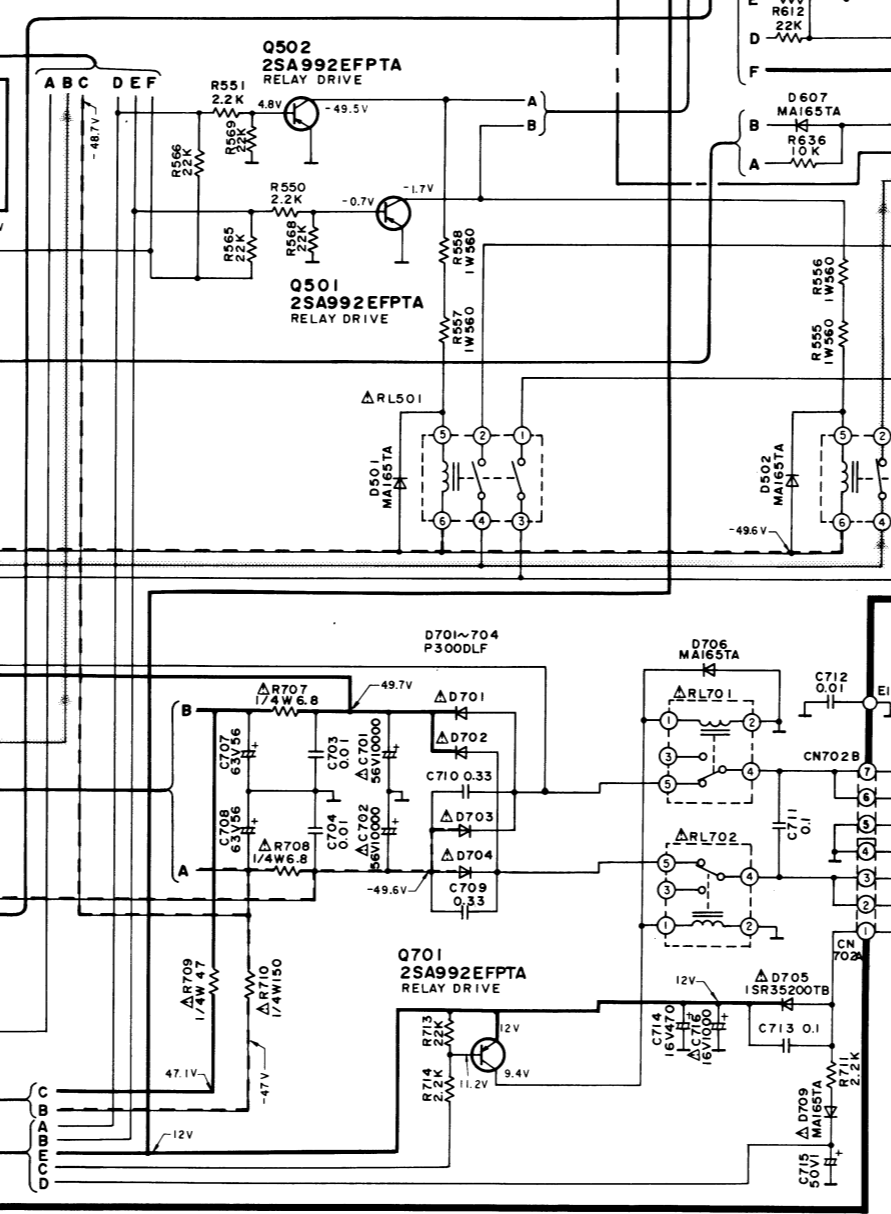
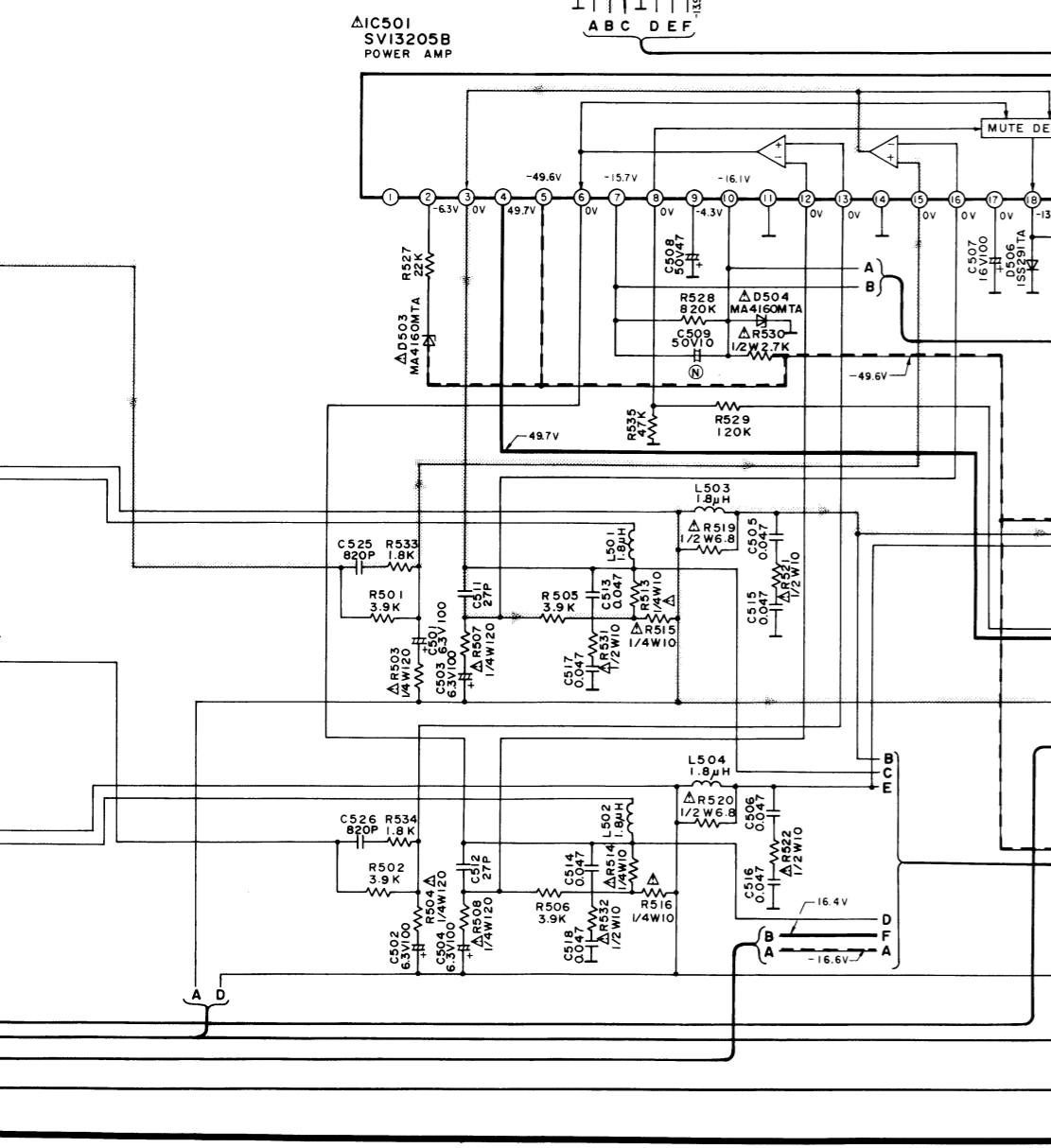
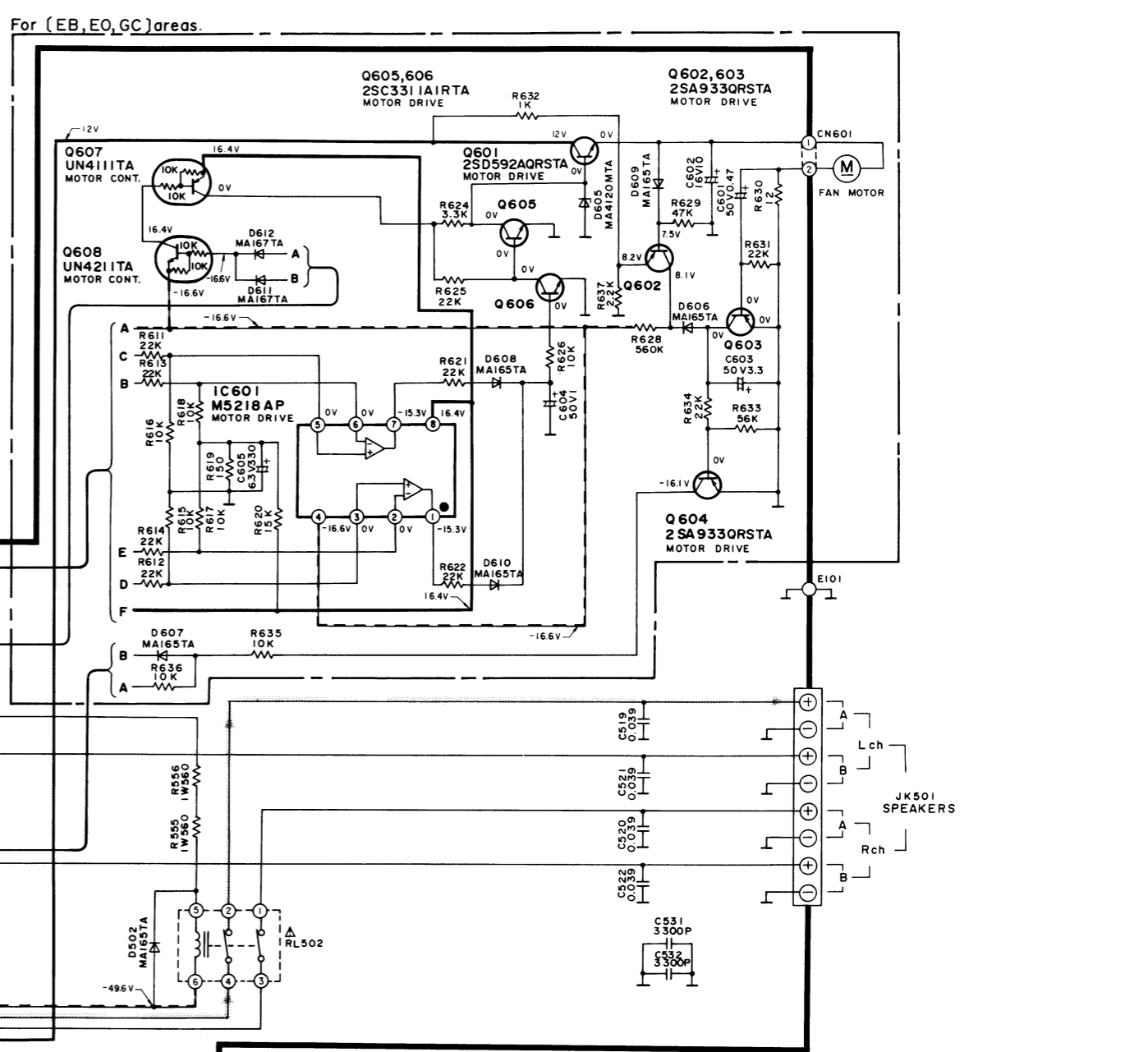
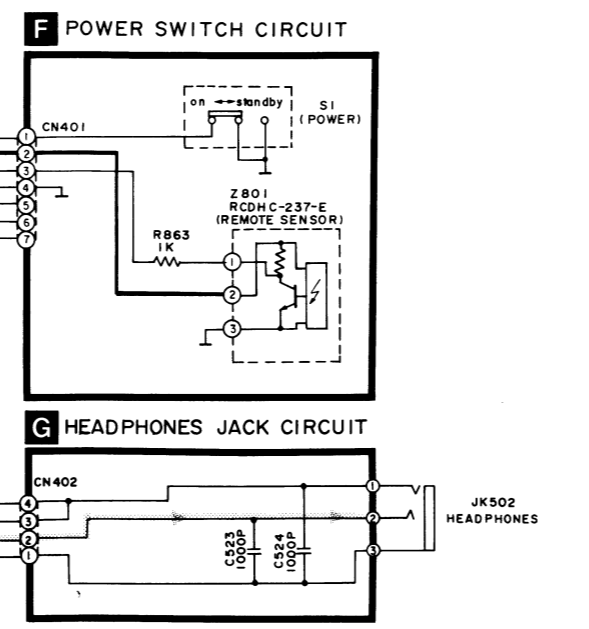
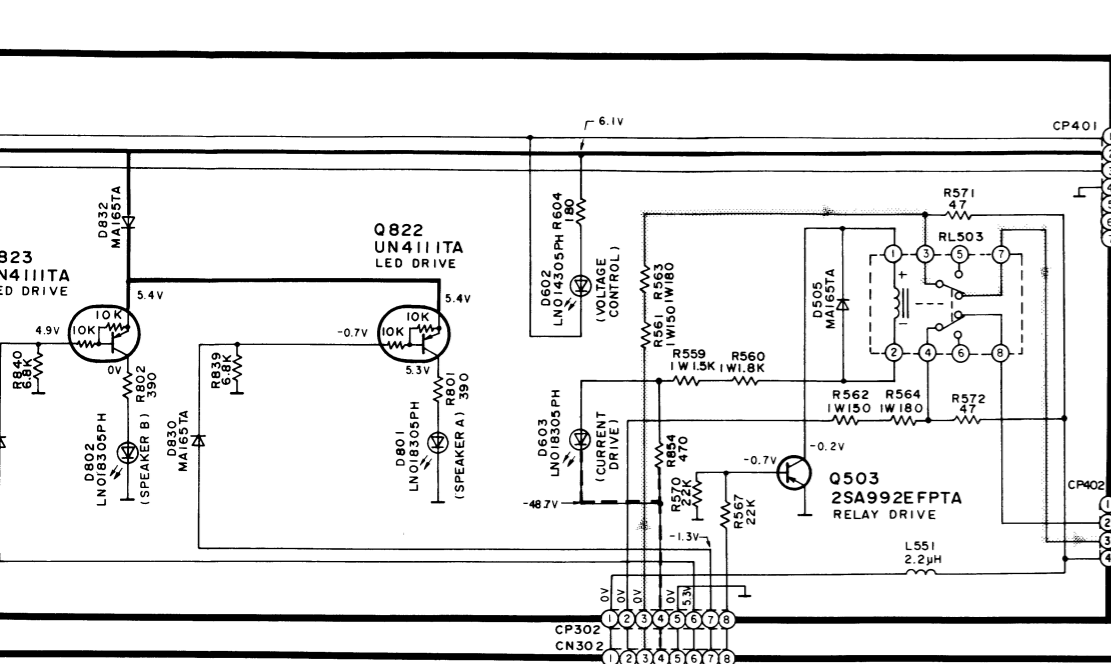
E TONE AMP CIRCUIT



C SWITCH CIRCUIT

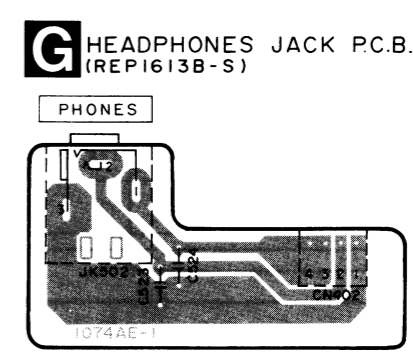
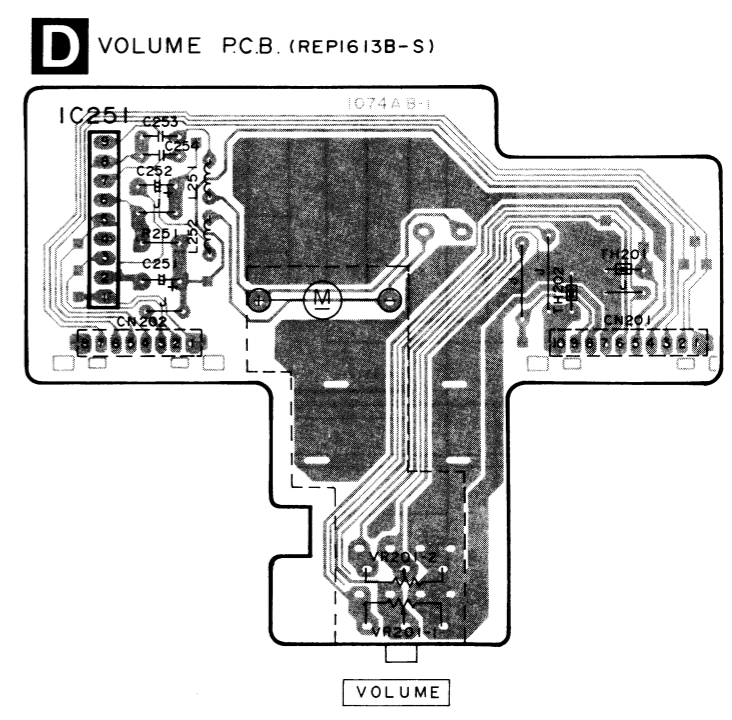
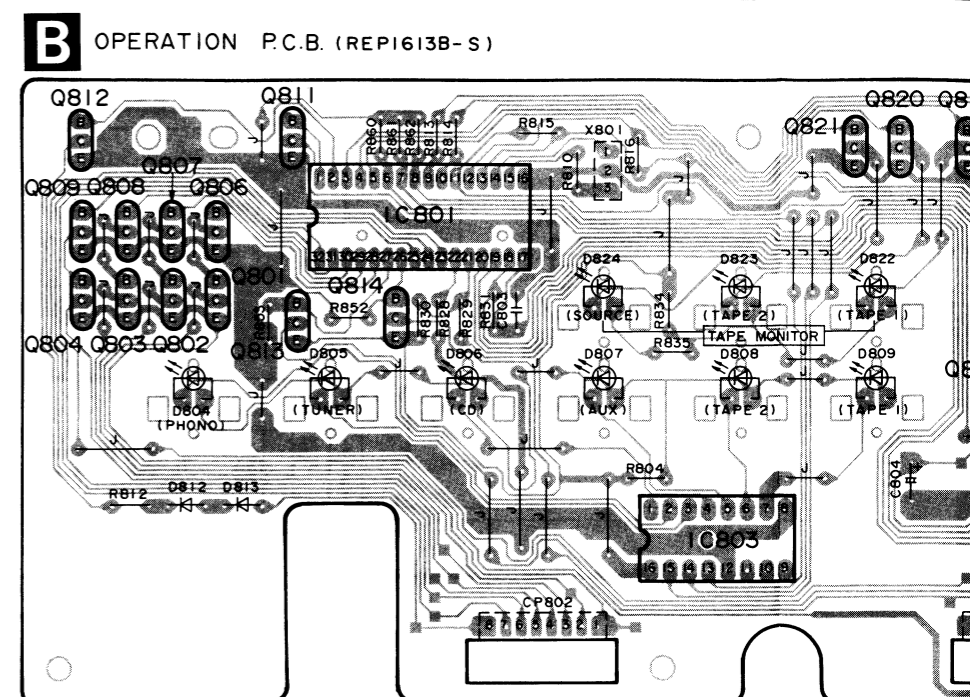
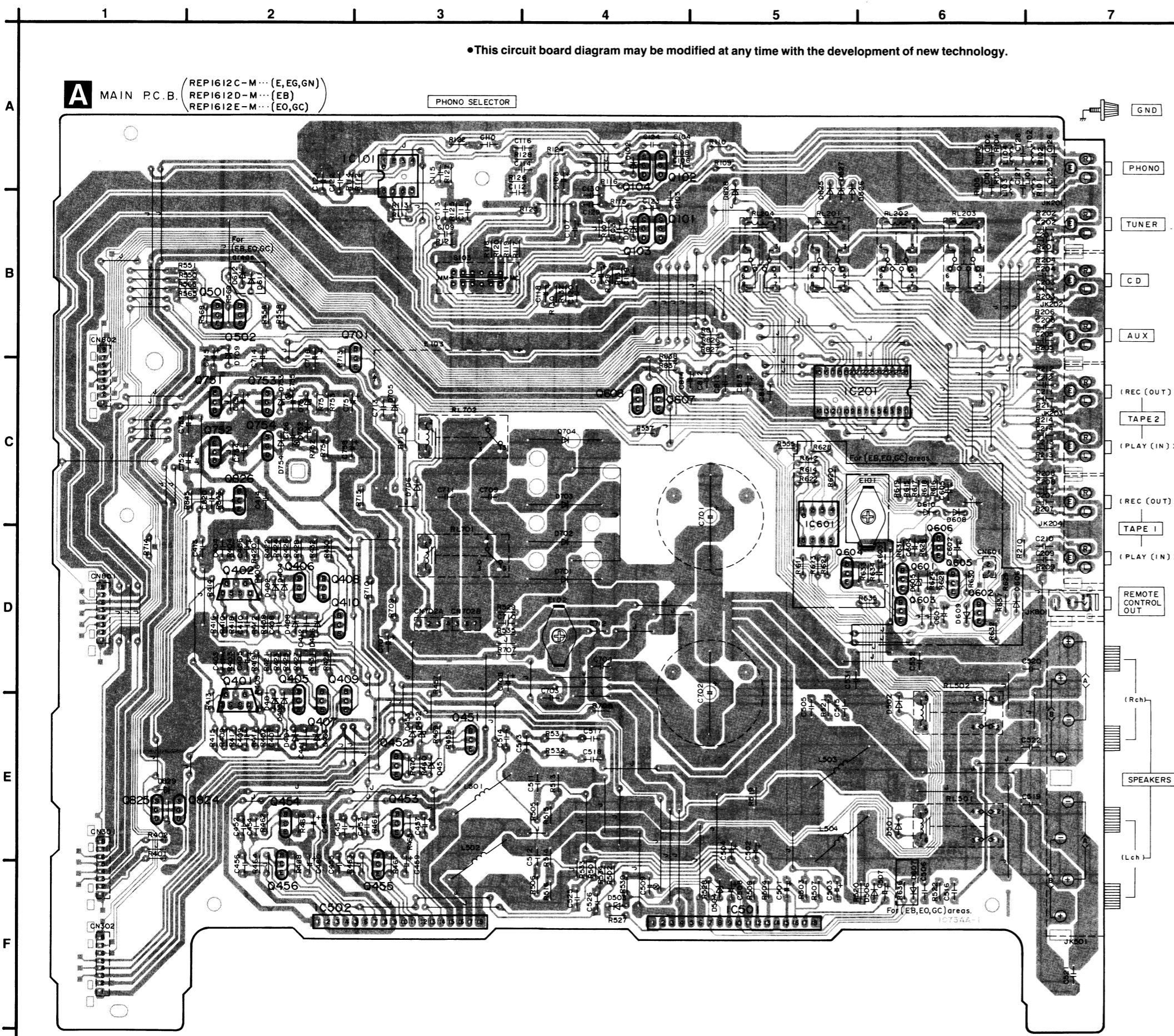




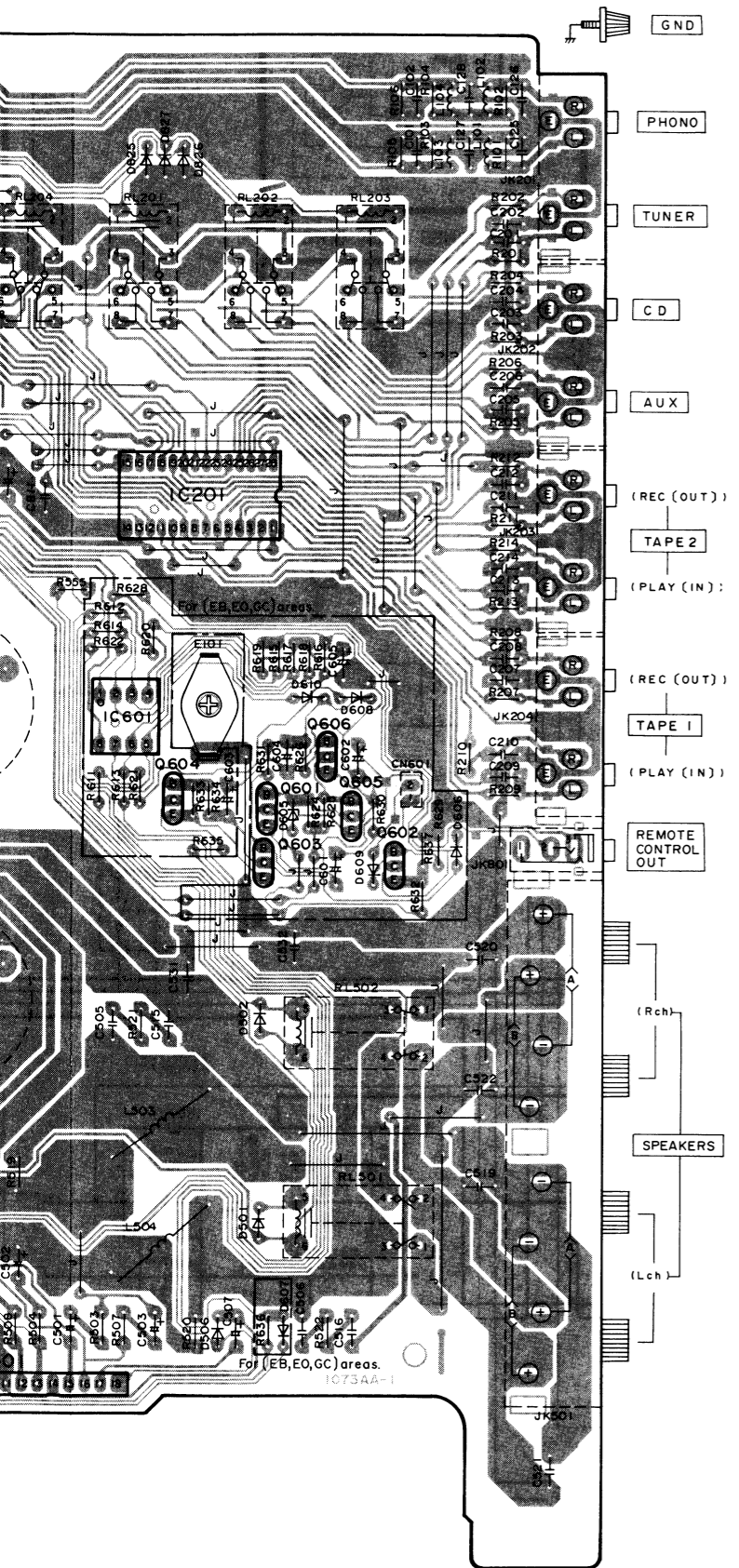


PRINTED CIRCUIT BOARD DIAGRAM

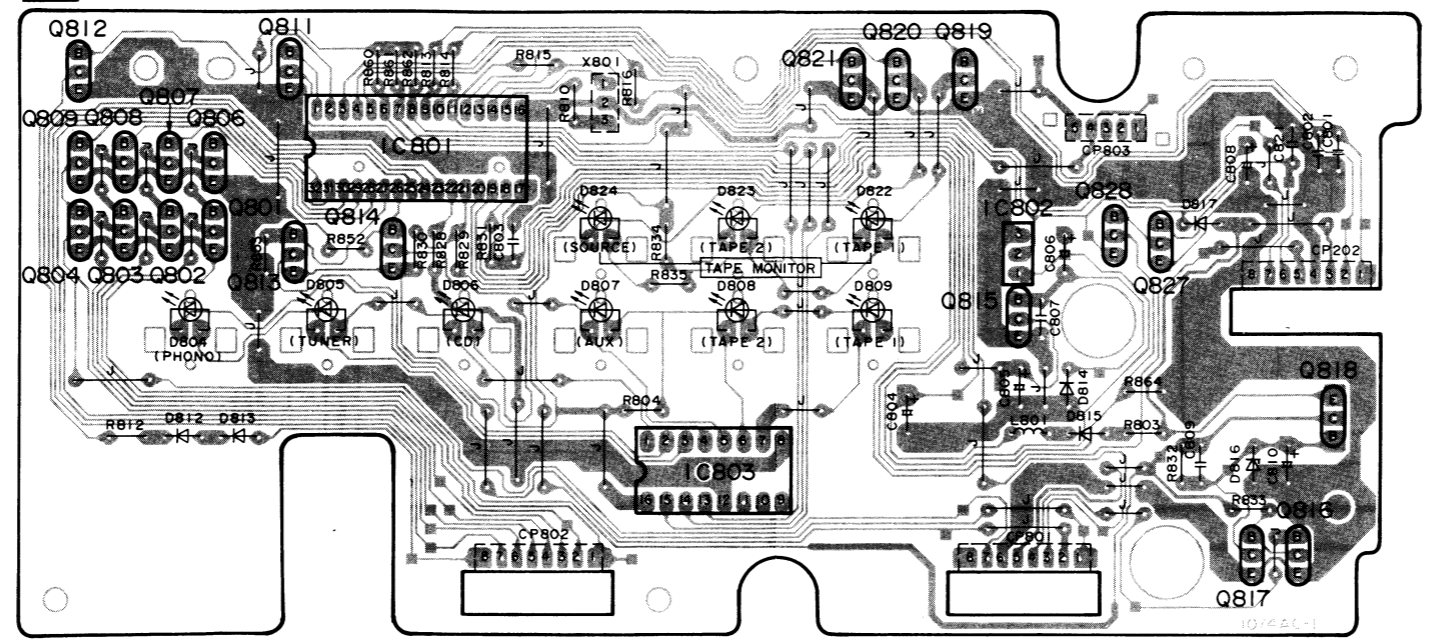
• This circuit board diagram may be modified at any time with the development of new technology.



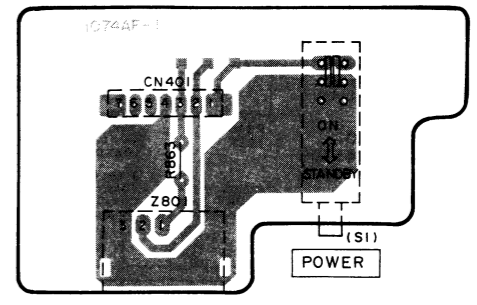
any time with the development of new technology.



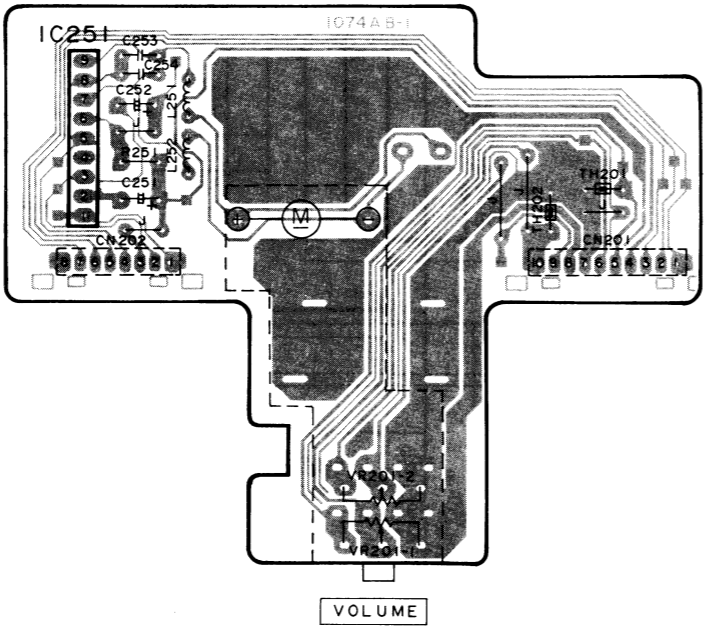
B OPERATION P.C.B. (REPI613B-S)



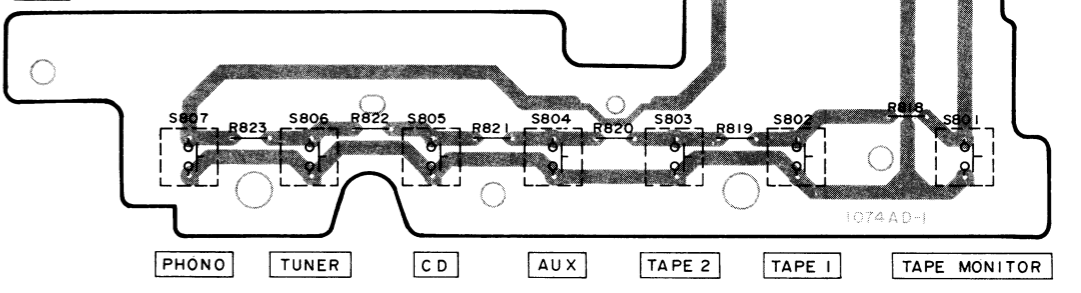
F POWER SWITCH P.C.B. (REPI613B-S)



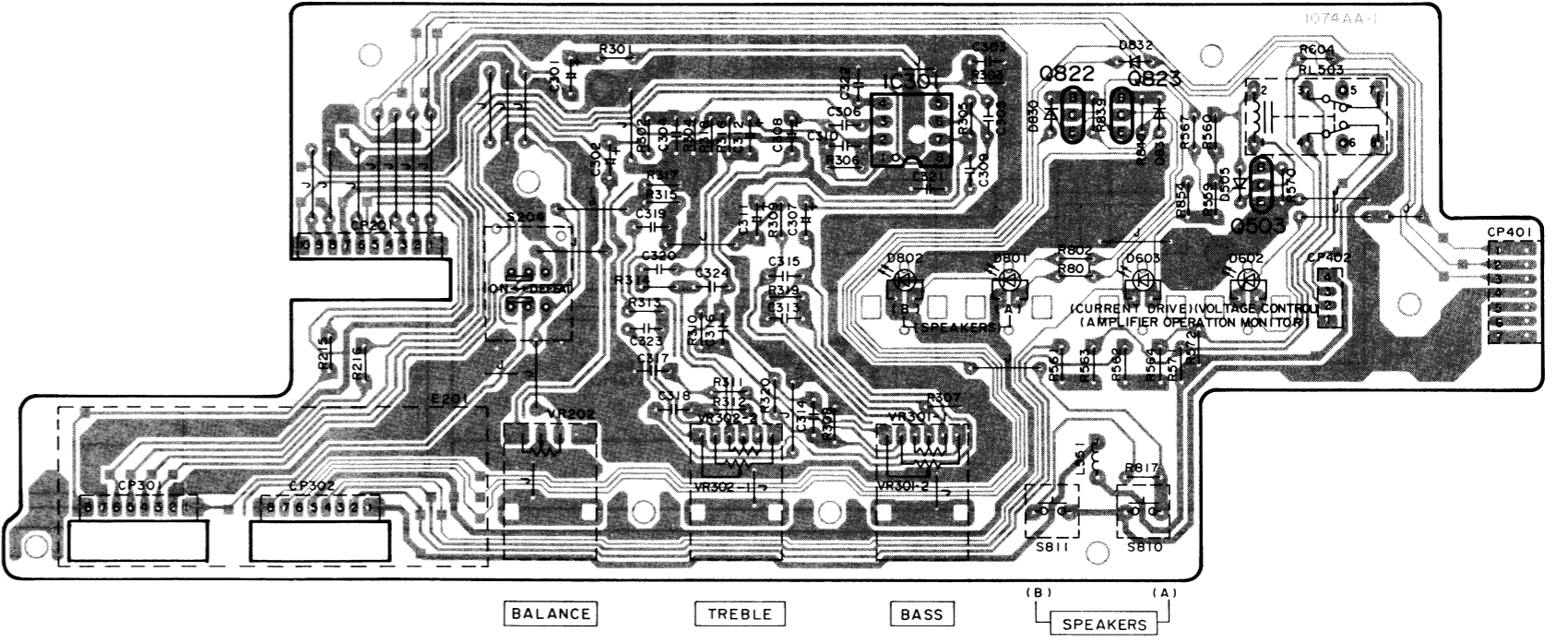
D VOLUME P.C.B. (REPI613B-S)



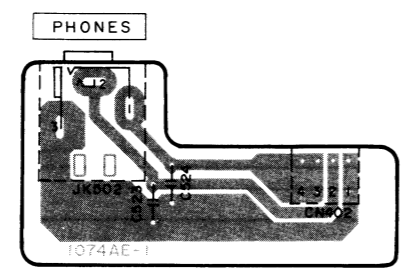
C SWITCH P.C.B. (REPI613B-S)



E TONE AMP P.C.B. (REPI613B-S)

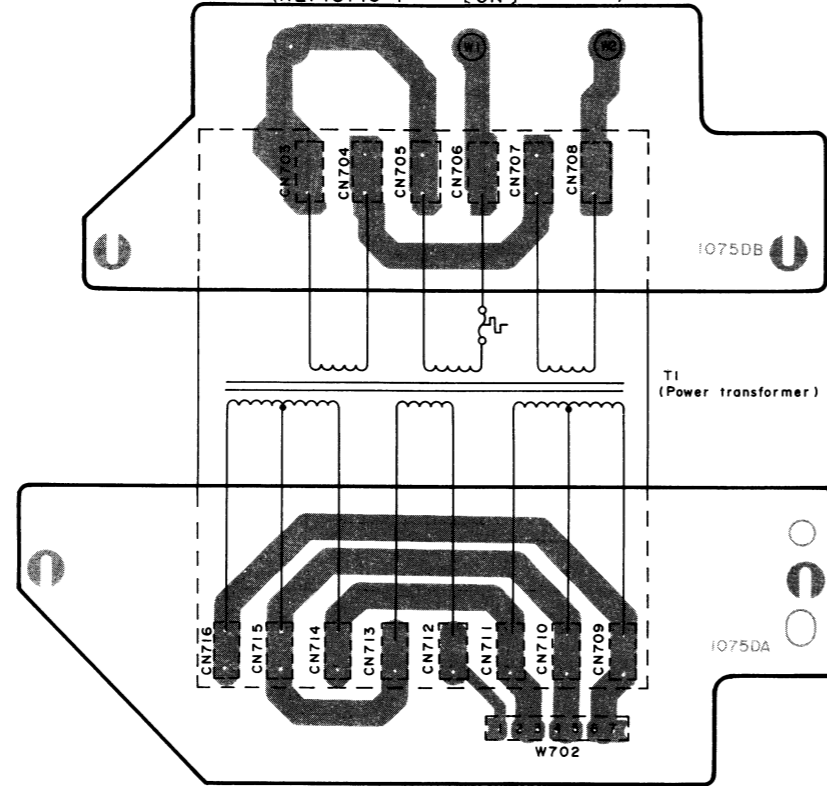


G HEADPHONES JACK P.C.B. (REPI613B-S)



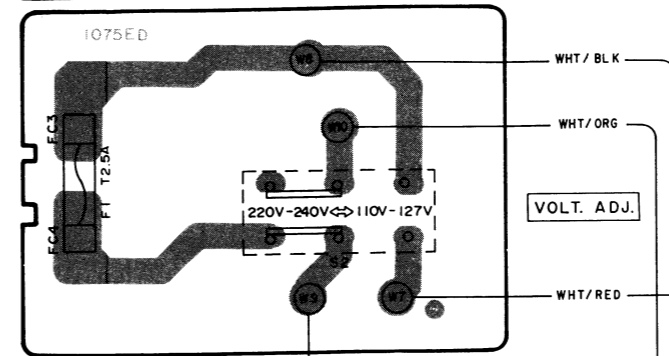
•This printed circuit board diagram may be modified at any time with the development of new technology.

I POWER TRANSFORMER (2) P.C.B.
(REPI614E-P... [E, EB, EG, EO])
(REPI614G-P... [GN])



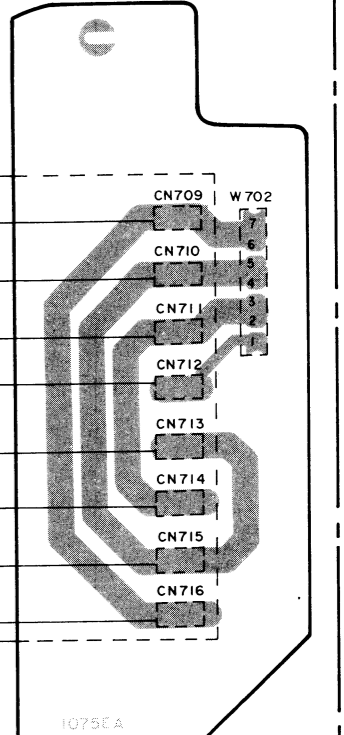
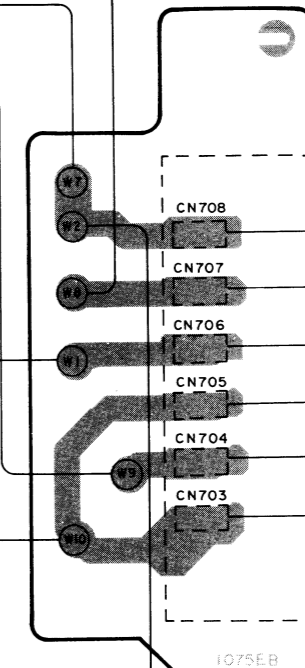
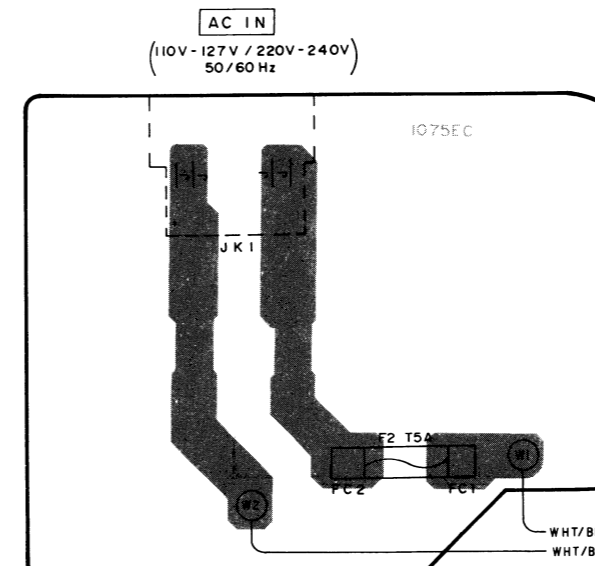
Power Source P.C.B. For [GC] area.

K VOLT. ADJ. P.C.B. (REPI614F-P)

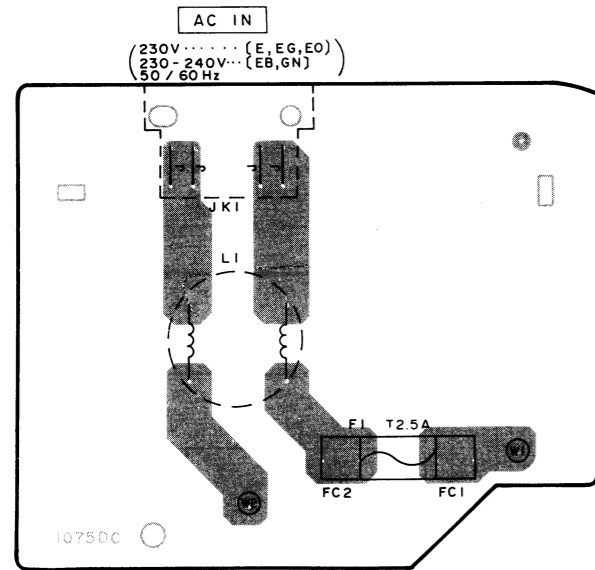


I POWER TRANSFORMER (2) P.C.B. (REPI614F-P)

H POWER TRANSFORMER (1) P.C.B. (REPI614F-P)



J POWER SUPPLY P.C.B.
(REPI614E-P... [E, EB, EG, EO])
(REPI614G-P... [GN])



H POWER TRANSFORMER (1) P.C.B.
(REPI614E-P... [E, EB, EG, EO])
(REPI614G-P... [GN])

J POWER SUPPLY P.C.B. (REPI614F-P)

•Terminal guide of IC's, transistors and diodes

<p>UPC4570C</p>	<p>TC74HC42AP 16 Pin TC9163N 28 Pin M37470M2215S 32 Pin</p>	<p>RSN6000A SVI3205B</p>	<p>BA6218</p>	<p>M5218AP</p>	<p>MN1381STA</p>	<p>2SA933QRSTA 2SA992EFPTA 2SA1123RSTTA 2SC2631RSTTA 2SD592AQRSTA</p>	<p>2SB1357DEFTA 2SD2037DEFTA</p>	<p>2SK170BLTPE2 2SK301QRSTA</p>	<p>2SJ105GRYTA 2SK330GRYTA</p>	<p>2SK389BG</p>	<p>MA165TA MA167TA MA167ATA MA29WATA MA700ATA ISS291TA ISR35200TB</p>	<p>MA4056MTA MA4068LTA</p>	<p>MA4120MTA MA4160MTA</p>	<p>P300DLF</p>	<p>2SA1309AIRTA 2SC3311AIRTA UN4111TA UN4211TA</p>
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■ FUNCTION OF IC TERMINALS

●IC801 (M37470M2215S)

Pin No.	Terminal Name	I/O	Function
1	P17/SDY	O	Relay drive signal output.
2	P16/CLK	O	Remote control signal output.
3	P15/SOUT	O	Tape monitor 1 LED drive signal.
4	P14/SIN	O	Tape monitor 2 LED drive signal.
5	P13/TI	O	Source LED drive signal.
6	P12/TO	O	Input selector LED drive signal.
7	P11		
8	P10		
9	P23/IN3	O	Volume control motor drive signal output
10	P22/IN2		
11	P21/IN1	I	Input select switch signal input.
12	P20/IN0	I	Speakers select switch signal input.
13	VREF	—	Reference voltage input.
14	X IN	I	Connected to ceramic oscillator. (X801: 4 MHz).
15	X OUT	O	
16	V _{SS}	—	GND terminal.
17	V _{CC}	—	Power supply (+5 V).

Pin No.	Terminal Name	I/O	Function
18	RESET	I	Reset signal input.
19	P30/INTO	I	Back-up detector signal input.
20	P31/INTI	I	Remote control receiving signal input. Not used.
21	P32/CNTRO	I	POWER switch input.
22	P33/CNTRI	—	Not used.
23	P40	O	Input select IC (IC201) control signal output.
24	P41		
25	P00		
26	P01		
27	P02	O	Speaker (B) relay and LED drive signal.
28	P03	O	SELECTOR RELAY RL201 drive signal output.
29	P04	O	SELECTOR RELAY RL202 drive signal output.
30	P05	O	SELECTOR RELAY RL203 drive signal output.
31	P06	O	SELECTOR RELAY RL204 drive signal output.
32	P07	O	Muting control signal output.

■ REPLACEMENT PARTS LIST

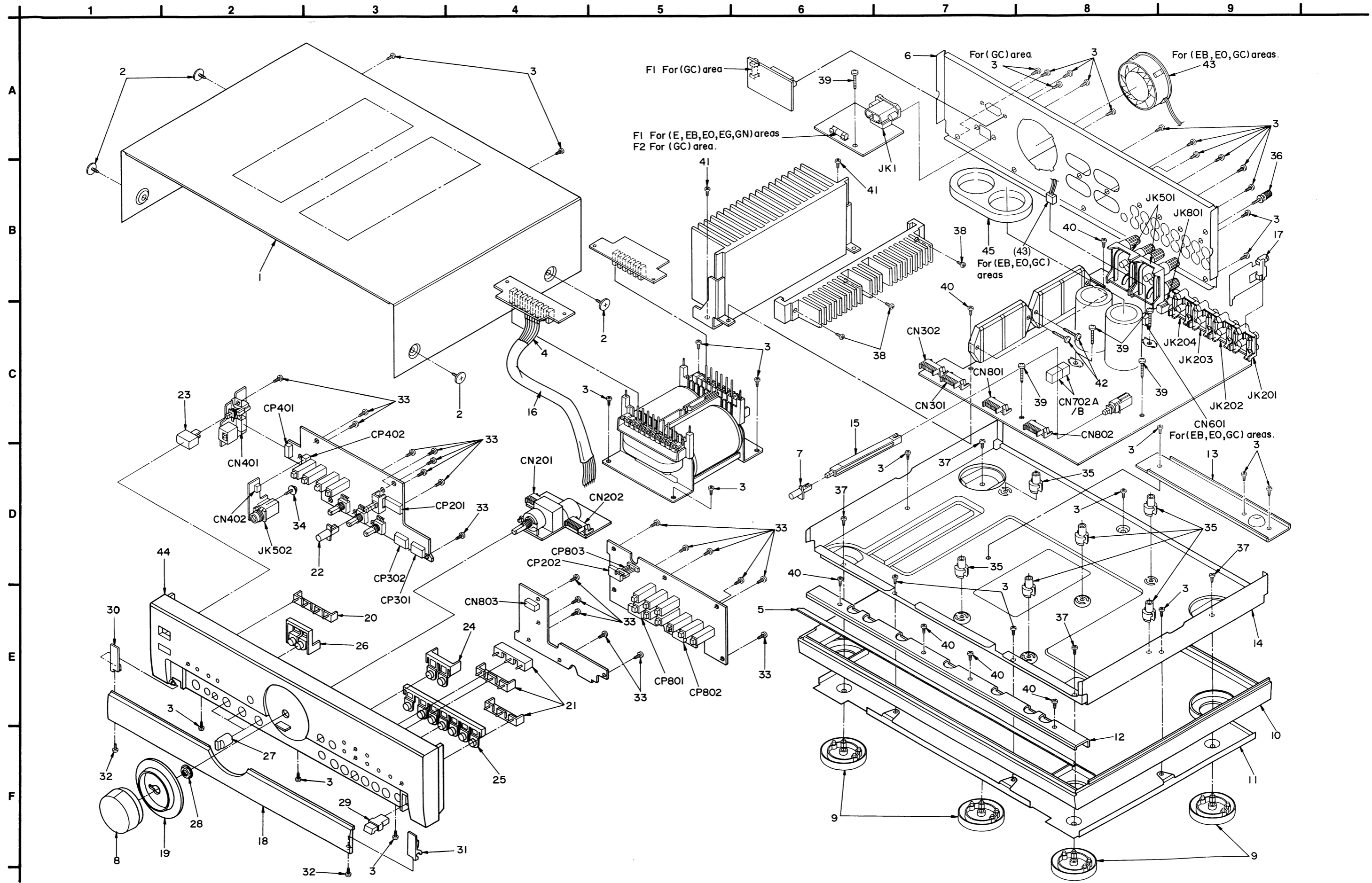
Notes: *Important safety notice:
 Components identified by Δ mark have special characteristics important for safety.
 Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
 When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
 *The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
 Parts without these indications can be used for all areas.
 *Remote Control Ass'y: Supply period for three years from termination of production.
 *The "(SF)" mark denotes the standard part.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)		Q828	UN4111	TRANSISTOR	
						DIODE(S)	
IC101	UPC4570C	I. C, PHONO EQ. AMP.		D101, 102	MA165	DIODE	
IC201	TC9163N	I. C, INPUT SELECTOR		D401-404	MA165	DIODE	
IC251	BA6218	I. C, VOLUME MOTOR DRIVE		D405, 406	MA167	DIODE	
IC301	UPC4570C	I. C, TONE AMP.		D407, 408	MA165	DIODE	
IC501	SVI3205B	I. C, POWER AMP.	Δ	D451	MA165	DIODE	
IC502	RSN6000A	I. C, V-AMP.		D452	MA4056MTA	DIODE	Δ
IC601	M5218AP	I. C, FAN MOTOR DRIVE	(EB, EO, GC)	D453	MA29WA	DIODE	
IC801	M37470M2215S	I. C, MICRO COMPUTER		D501, 502	MA165	DIODE	
IC802	MN1381STA	I. C, RESET		D503, 504	MA4160M	DIODE	Δ
IC803	TC74HC42AP	I. C, LED DRIVE		D505	MA165	DIODE	
		TRANSISTOR(S)		D506	1SS291TA	DIODE	
				D602	LN014305PH	DIODE	
Q101-104	2SK170BLTPE2	TRANSISTOR		D603	LN018305PH	DIODE	
Q401, 402	2SK389BG	TRANSISTOR		D605	MA4120	DIODE	(EB, EO, GC)
Q405-408	2SC2631RSTTA	TRANSISTOR		D606-610	MA165	DIODE	(EB, EO, GC)
Q409, 410	2SA1123RSTTA	TRANSISTOR		D611, 612	MA167	DIODE	(EB, EO, GC)
Q451, 452	2SC2631RSTTA	TRANSISTOR		D701-704	P300DLF	DIODE	Δ
Q453, 454	2SC3311AIRTA	TRANSISTOR		D705	1SR35200TB	DIODE	Δ
Q455, 456	2SA1309AIRTA	TRANSISTOR		D706	MA165	DIODE	
Q501-503	2SA992EFPTA	TRANSISTOR		D709	MA165	DIODE	Δ
Q601	2SD592ANCQ	TRANSISTOR	(EB, EO, GC)	D751, 752	MA4160M	DIODE	Δ
Q602-604	2SA933QRSTA	TRANSISTOR	(EB, EO, GC)	D753, 754	MA165	DIODE	
Q605, 606	2SC3311AIRTA	TRANSISTOR	(EB, EO, GC)	D801, 802	LN018305PH	DIODE	
Q607	UN4111	TRANSISTOR	(EB, EO, GC)	D804-809	LN018305PH	DIODE	
Q608	UN4211	TRANSISTOR	(EB, EO, GC)	D812-814	MA165	DIODE	
Q701	2SA992EFPTA	TRANSISTOR		D815	1SS291TA	DIODE	
Q751	2SD2037DEFTA	TRANSISTOR	Δ	D816	MA4068L	DIODE	Δ
Q752	2SB1357DEFTA	TRANSISTOR	Δ	D817	MA165	DIODE	
Q753	2SK330GRYTA	TRANSISTOR	Δ	D822, 823	LN014305PH	DIODE	
Q754	2SJ105GRYTA	TRANSISTOR	Δ	D824	LN018305PH	DIODE	
Q801-804	UN4111	TRANSISTOR		D825-828	MA165	DIODE	
Q806-809	UN4211	TRANSISTOR		D829	MA700	DIODE	
Q811, 812	UN4211	TRANSISTOR		D830-832	MA165	DIODE	
Q813, 814	UN4111	TRANSISTOR				VARIABLE RESISTOR(S)	
Q815, 816	UN4211	TRANSISTOR		VR201	RRV16B03B15A	V. R, MAIN VOLUME CONTROL	
Q817	2SC3311AIRTA	TRANSISTOR		VR202	EVJ02QF01G15	V. R, BALANCE	
Q818	2SD2037DEFTA	TRANSISTOR	Δ	VR301, 302	EVJYA1F01C15	V. R, BASS/TREBLE CONTROL	
Q819-821	UN4211	TRANSISTOR				THERMISTOR(S)	
Q822, 823	UN4111	TRANSISTOR					
Q824, 825	2SK301QRS	TRANSISTOR					
Q826	2SA933QRSTA	TRANSISTOR					
Q827	2SC3311AIRTA	TRANSISTOR					

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
TH201, 202	ERTD2ZHL104T	THERMISTOR		CN401	RJT057W007-1	CONNECTOR (7P)	
		COMPONENT COMBINATION (S)		CN402	RJU057W004	SOCKET (4P)	
Z801	RCDHC-237	REMOTE SENSOR		CN601	SJT3213	CONNECTOR (2P)	(EB, EO, GC)
		COIL (S)		CN703-716	RJS1A1101T1	SOCKET (1P)	
L1	RLQZ271M	COIL	△ (E, EB, EG, EO, GN)	CN801, 802	RJU003K008M1	SOCKET (8P)	
L101-104	ELEXT101KA9	COIL		CN803	RJU066H05	SOCKET (5P)	
L251, 252	ELEXT1R0KA9	COIL		CN702A	RJS1A6604	SOCKET (4P)	
L501-504	SLQY18G-10	COIL		CN702B	RJS1A6603	SOCKET (3P)	
L551	ELEPK2R2MA	COIL		CP201	RJT003K010-1	CONNECTOR (10P)	
L801	ELEXT101KA9	COIL		CP202	RJT003K008-1	CONNECTOR (8P)	
		TRANSFORMER (S)		CP301, 302	RJT003K008-1	CONNECTOR (8P)	
T1	RTP7K5E003-W	POWER TRANSFORMER	△ (E, EG, EO)	CP401	RJU057W007	SOCKET (7P)	
T1	RTP7K5B002-W	POWER TRANSFORMER	△ (EB, GC, GN)	CP402	RJT057W004-1	CONNECTOR (4P)	
		OSCILLATOR (S)		CP801, 802	RJT003K008-1	CONNECTOR (8P)	
X801	EF0G4004A4	OSCILLATOR (4MHz)		CP803	RJT066H05A	CONNECTOR (5P)	
		FUSE (S)				JACK (S)	
F1	XBA2C25TB0	FUSE, 250V T2.5A	△	JK1	SJS9236	AC INLET	△ (E, EB, EG, EO, GC)
F2	XBA2C50TB0	FUSE, 250V T5A	△ (GC)	JK1	SJSD16	AC INLET	△ (GN)
		SWITCH (ES)		JK201	SJF3069N	INPUT TERMINAL (PHONO/TUNER)	
S1	SSH1238	SW, POWER		JK202	SJF3069N	INPUT TERMINAL (CD/AUX)	
S2	ESD26200A	SW, VOLTAGE SELECTOR	△ (GC)	JK203	SJF3069N	IN/OUTPUT TERMINAL (TAPE2)	
S103	RSP20010-J	SW, PHONO SELECTOR		JK204	SJF3069N	IN/OUTPUT TERMINAL (TAPE1)	
S204	ESB68113	SW, TONE ON/DEFEAT		JK501	RJH4801-1	SPEAKERS TERMINAL	(E, EG, EO, GC, GN)
S801	EVQ21405R	SW, TAPE MONITOR		JK501	RJH4801-2	SPEAKERS TERMINAL	(EB)
S802	EVQ21405R	SW, INPUT SELECTOR (TAPE1)		JK502	QJA0455ZC-A	HEADPHONES JACK	
S803	EVQ21405R	SW, INPUT SELECTOR (TAPE2)		JK801	RJJ33TR01	REMOTE CONTROL JACK	
S804	EVQ21405R	SW, INPUT SELECTOR (AUX)				EARTH TERMINAL (S)	
S805	EVQ21405R	SW, INPUT SELECTOR (CD)		E101, 102	SNE1004-1	GND PLATE	
S806	EVQ21405R	SW, INPUT SELECTOR (TUNER)		E103	SMC949	SHIELD PLATE	
S807	EVQ21405R	SW, INPUT SELECTOR (PHONO)		E201	RSC0340	SHIELD PLATE	
S808	EVQ21405R	SW, INPUT SELECTOR (LEFT)				FUSE HOLDER (S)	
S809	EVQ21405R	SW, INPUT SELECTOR (RIGHT)		FC1, 2	EYF52BC	FUSE HOLDER	
S810	EVQ21405R	SW, SPEAKER (A)		FC3, 4	SJT388	FUSE HOLDER	(GC)
S811	EVQ21405R	SW, SPEAKER (B)				RELAY (S)	
		CONNECTOR (S)		RL201-204	RSY0014M-0	RELAY	
CN201	RJU003K010M1	SOCKET (10P)		RL501, 502	RSY0013-0	RELAY	△
CN202	RJU003K008M1	SOCKET (8P)		RL503	RSY0014M-0	RELAY	
CN301, 302	RJU003K008M1	SOCKET (8P)		RL701, 702	RSY0012M-0	RELAY	△

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS		45	RMF0050	CUSHION	
1	RKMO089B-1K	CABINET	(E, EG, GN)			PACKING MATERIALS	
1	RKMO089C-1K	CABINET	(EB, EO, GC)	P1	RPG1573	PACKING CASE	(E, EG, EO, GC, GN)
2	SNE2129-1	SCREW		P1	RPG1577-1	PACKING CASE	(EB)
3	XTBS3+8JFZ1	SCREW		P2	RPNO685	PAD	
4	RWJ3907330QQ	FLAT CABLE (7P)		P3	RPQ0164	ACCESSORY PAD	
5	RGK0588-T	ORNAMENT RUBBER		P4	XZB50X65A02Z	PROTECTION COVER	
6	RGR0171D-A1	REAR PANEL	(E, EG)	P5	XZB24X34C04	PROTECTION COVER	
6	RGR0171E-B1	REAR PANEL	(EB)	P6	RPH0032	PROTECTION SHEET	(EB, GN)
6	RGR0171A-D1	REAR PANEL	(EO)			ACCESSORIES	
6	RGR0171B-B	REAR PANEL	(GC)	A1	EUR642210	REMOTE CONTROL TRANSMITTER	
6	RGR0171D-C1	REAR PANEL	(GN)	A1-1	UR64EC1371	BATTERY COVER	
7	RGU0609-K	BUTTON, PHONO SELECTOR		A2	RJA0019-2K	AC POWER SUPPLY CORD	△ (E, EG, EO, GC)
8	RGW0179-K	KNOB, VOLUME		A2	VJA0733	AC POWER SUPPLY CORD	△ (EB) (SF)
9	RKA0053-A	FOOT		A2	RJA0036-K	AC POWER SUPPLY CORD	△ (GN)
10	RKU0050-K	RUBBER BASE		A3	RQA0013	WARRANTY CARD	(E, EB, EG, EO)
11	RMA0694	BOTTOM BOARD		A3	RQX7433ZA	WARRANTY CARD	(GN)
12	RMA0734	ANGLE		A4	RQCB0169	SERVICE CENTER LIST	
13	RFKNUA800E-K	ANGLE ASS'Y		A5	RQT1980-B	INSTRUCTIONS MANUAL	(EB, GN)
14	RFKJUA800E-K	BOTTOM CHASSIS		A5	RFKJUA800E-K	INSTRUCTIONS MANUAL	(E)
15	RMM0104	SWITCH SHAFT		A5	RFKJUA800EGK	INSTRUCTIONS MANUAL	(EG)
16	RWZ080UFW240	TUBE		A5	RFKJUA800GCK	INSTRUCTIONS MANUAL	(GC)
17	RSC0322	SHIELD PLATE (PHONO)		A5	RFKJUA800EOK	INSTRUCTIONS MANUAL	(EO)
18	RKF0314-K	OPERATION DOOR		A6	RQLA0134	CAUTION LABEL	(GC)
19	RGK0551-S	ORNAMENT		A7	SJP5213-2	POWER PLUG ADAPTOR	△ (GC)
20	RGL0189-Q	PANEL LIGHT (A)					
21	RGL0190-Q	PANEL LIGHT (B)					
22	RGU0282	BUTTON, TONE					
23	RGU0890-K	BUTTON, POWER					
24	RGU0891-K	BUTTON, INPUT SELECTOR					
25	RGU0892-K	BUTTON, TAPE MONITOR etc.					
26	RGU0893-K	BUTTON, SPEAKERS					
27	RGW0178-K	KNOB, BASS/TREBLE etc.					
28	RHN90001	NUT					
29	RMQ0215A	DOOR STOPPER					
30	RMQ0378	DOOR HOLDER (R)					
31	RMQ0379	DOOR HOLDER (L)					
32	XQN26+AJ6FZ	SCREW					
33	XTBS26+8J	SCREW					
34	XTWS3+8T	SCREW					
35	SHE187-2	P. C. B. SUPPORT					
36	SNE2123	GND SCREW					
37	XTB3+14G	SCREW					
38	XTB3+16JFZ	SCREW					
39	XTB3+20JFZ	SCREW					
40	XTB3+8JFZ	SCREW					
41	XTWS3+8T	SCREW					
42	XTW3+15T	SCREW					
43	REM0040	FAN MOTOR	(EB, EO, GC)				
44	RFKJUA800E-K	FRONT PANEL ASS'Y					

■ CABINET PARTS LOCATION



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	Ref. No.	Part No.	Values & Remarks
		RESISTORS						
R101-104	ERDS2TJ102	1/4W 1K	R503, 504	ERDAF2VJ121T	1/4W 120 Δ	R803	ERDS2TJ390	1/4W 39
R105, 106	ERDS2TJ473	1/4W 47K	R505, 506	ERDS2TJ392T	1/4W 3.9K	R804	ERDS2TJ331	1/4W 330
R107, 108	ERDS2TJ221	1/4W 220	R507, 508	ERDAF2VJ121T	1/4W 120 Δ	R810	ERDS2TJ102	1/4W 1K
R109, 110	ERDS2TJ220T	1/4W 22	R513-516	ERDAF2VJ100T	1/4W 10 Δ	R811	ERDS2TJ103	1/4W 10K
R111-116	ERDAS3G332T	1/4W 3.3K	R519, 520	ERDS1FVJ6R8T	1/2W 6.8 Δ	R812	ERDS2TJ102	1/4W 1K
R117, 118	ERDS2TJ151	1/4W 150	R521, 522	ERDS1FVJ100T	1/2W 10 Δ	R813-817	ERDS2TJ103	1/4W 10K
R119, 120	ERDS2TJ100	1/4W 10	R527	ERDS2TJ223	1/4W 22K	R818	ERDS2TJ821	1/4W 820
R121, 122	ERDS2TJ101	1/4W 100	R528	ERDS2TJ824	1/4W 820K	R819	ERDS2TJ102	1/4W 1K
R123, 124	ERDS2TJ151	1/4W 150	R529	ERDS2TJ124T	1/4W 120K	R820	ERDS2TJ122	1/4W 1.2K
R125, 126	ERDS2TJ682T	1/4W 6.8K	R530	ERDS1FVJ472T	1/2W 4.7K Δ	R821	ERDS2TJ152	1/4W 1.5K
R127, 128	ERDS2TJ823T	1/4W 82K	R531, 532	ERDS1FVJ100T	1/2W 10 Δ	R822	ERDS2TJ182	1/4W 1.8K
R129, 130	ERDS2TJ334	1/4W 330K	R533, 534	ERDS2TJ182	1/4W 1.8K	R823	ERDS2TJ222	1/4W 2.2K
R131, 132	ERDS2TJ561	1/4W 560	R535	ERDS2TJ473	1/4W 47K	R824	ERDS2TJ332	1/4W 3.3K
R201-214	ERDAS3J102T	1/4W 1K	R550, 551	ERDS2TJ222	1/4W 2.2K	R825	ERDS2TJ472	1/4W 4.7K
R215, 216	ERDLS2VJ332T	1/4W 3.3K	R555-558	ERG1SJ561E	1W 560	R826, 827	ERDS2TJ103	1/4W 10K
R251	ERDS1FVJ100T	1/2W 10 Δ	R559	ERG1SJ152E	1W 1.5K	R828, 829	ERDS2TJ102	1/4W 1K
R301, 302	ERDAS3G561	1/4W 560	R560	ERG1SJ182E	1W 1.8K	R830	ERDS2TJ223	1/4W 22K
R303, 304	ERDS2TJ104	1/4W 100K	R561, 562	ERG1SJ151E	1W 150	R831	ERDS2TJ104	1/4W 100K
R305, 306	ERDS2TJ224T	1/4W 220K	R563, 564	ERG1SJ181E	1W 180	R832	ERDS2TJ102	1/4W 1K
R307, 308	ERDS2TJ392T	1/4W 3.9K	R565-570	ERDS2TJ223	1/4W 22K	R833	ERDS2TJ103	1/4W 10K
R309, 310	ERDS2TJ223	1/4W 22K	R571, 572	ERDS2TJ470	1/4W 47	R834	ERDS2TJ221	1/4W 220
R311, 312	ERDS2TJ102	1/4W 1K	R604	ERDS2TJ181T	1/4W 180	R835	ERDS2TJ181T	1/4W 180
R313, 314	ERDS2TJ392T	1/4W 3.9K	R611-614	ERDAS3G223T	1/4W 22K (EB, EO, GC)	R837, 838	ERDS2TJ102	1/4W 1K
R315, 316	ERDS2TJ222	1/4W 2.2K	R615-618	ERDAS3G103T	1/4W 10K (EB, EO, GC)	R839, 840	ERDS2TJ682T	1/4W 6.8K
R317, 318	ERDS2TJ391	1/4W 390	R619	ERDS2TJ151	1/4W 150 (EB, EO, GC)	R843	ERDS2TJ472	1/4W 4.7K
R319, 320	ERDS2TJ183T	1/4W 18K	R620	ERDS2TJ153	1/4W 15K (EB, EO, GC)	R845	ERDS2TJ334	1/4W 330K
R401, 402	ERDLS2VJ102T	1/4W 1K	R621, 622	ERDS2TJ223	1/4W 22K (EB, EO, GC)	R852, 853	ERDS2TJ103	1/4W 10K
R403, 404	ERDAS3G823T	1/4W 82K	R624	ERDS2TJ332	1/4W 3.3K (EB, EO, GC)	R854	ERDS2TJ471	1/4W 470
R405, 406	ERDLS2VJ102T	1/4W 1K	R625	ERDS2TJ223	1/4W 22K (EB, EO, GC)	R860-862	ERDS2TJ104	1/4W 100K
R407, 408	ERDAS3G184T	1/4W 180K	R626	ERDS2TJ103	1/4W 10K (EB, EO, GC)	R863	ERDS2TJ102	1/4W 1K
R409-412	ERDAS3G562T	1/4W 5.6K	R628	ERDS2TJ564	1/4W 560K (EB, EO, GC)	R864	ERDS2TJ223	1/4W 22K
R413, 414	ERDAS3G101T	1/4W 100	R629	ERDS2TJ473	1/4W 47K (EB, EO, GC)			
R415, 416	ERDS2TJ183T	1/4W 18K	R630	ERDS2TJ120T	1/4W 12 (EB, EO, GC)			CAPACITORS
R417, 418	ERDAS3J271T	1/4W 270	R631	ERDS2TJ223	1/4W 22K (EB, EO, GC)	C101, 102	ECBT1H101KB5	50V 100P
R419, 420	ERDAS3G822T	1/4W 8.2K	R632	ERDS2TJ102	1/4W 1K (EB, EO, GC)	C103, 104	ECBT1H102KB5	50V 1000P
R421, 422	ERDAS3G153T	1/4W 15K	R633	ERDS2TJ563	1/4W 56K (EB, EO, GC)	C105, 106	ECBT1H820KB5	50V 82P
R423-426	ERDAS3G101T	1/4W 100	R634	ERDS2TJ223	1/4W 22K (EB, EO, GC)	C107, 108	ECA0JM222B	6.3V 2200U
R427-430	ERDAF2VJ122T	1/4W 1.2K Δ	R635, 636	ERDS2TJ103	1/4W 10K (EB, EO, GC)	C109, 110	ECKW1H222KB5	50V 2200P
R431, 432	ERDAF2VJ101T	1/4W 100 Δ	R637	ERDS2TJ222	1/4W 2.2K (EB, EO, GC)	C111, 112	ECQB1H122JF3	50V 1200P
R457	ERDS2TJ153	1/4W 15K	R707, 708	ERDAF2VJ6R8T	1/4W 6.8 Δ	C113, 114	ECQB1H103JF3	50V 0.01U
R459, 460	ERDAF2VJ101T	1/4W 100 Δ	R709	ERDAF2VJ470T	1/4W 47 Δ	C115, 116	ECQB1H393JF3	50V 0.039U
R461-464	ERDS2TJ333	1/4W 33K	R710	ERDAF2VJ151T	1/4W 150 Δ	C117, 118	ECA1HPXS010B	50V 1U
R465-468	ERDAF2VJ101T	1/4W 100 Δ	R711	ERDS2TJ222	1/4W 2.2K	C119, 120	ECQB1H472JF3	50V 4700P
R469	ERDS2TJ103	1/4W 10K	R713	ERDS2TJ223	1/4W 22K	C121, 122	ECQB1H103JF3	50V 0.01U
R470	ERDS2TJ102	1/4W 1K	R714	ERDS2TJ222	1/4W 2.2K	C123-126	ECBT1H270J5	50V 27P
R501, 502	ERDS2TJ392T	1/4W 3.9K	R715	ERDAF2VJ151T	1/4W 150 Δ	C127, 128	ECBT1H101KB5	50V 100P
			R751, 752	ERDS2TJ105T	1/4W 1M	C129, 130	ECBT1E1032F	25V 0.01U
			R753, 754	ERDS1FVJ103T	1/2W 10K Δ	C201-214	ECKT1H101KB	50V 100P
			R801, 802	ERDS2TJ391	1/4W 390			

Ref. No.	Part No.	Values & Remarks
C251, 252	ECEA0JKA101B	6.3V 100U
C253, 254	ECBT1H104ZF5	50V 0.1U
C301, 302	ECA1HPXS3R3B	50V 3.3U
C303, 304	ECCR1H101K5	50V 100P
C305, 306	ECBT1H820KB5	50V 82P
C307, 308	ECA1HPXS4R7B	50V 4.7U
C309, 310	ECBT1H390J5	50V 39P
C311, 312	ECA1CPXS100B	16V 10U
C313, 314	ECQV1H823JM3	50V 0.082U
C315, 316	ECQB1H153JF3	50V 0.015U
C317, 318	ECQB1H183JF3	50V 0.018U
C319, 320	ECQB1H222JF3	50V 2200P
C321, 322	ECBT1E223ZF	25V 0.022U
C323, 324	ECBT1H121KB5	50V 120P
C403, 404	ECKR1H271KB5	50V 270P
C405, 406	ECA1CPXS470B	16V 47U
C407, 408	ECCR1H070C5	50V 7P
C409, 410	ECKR1H391KB5	50V 390P
C411, 412	ECCR1H030C5	50V 3P
C413, 414	ECQB1H222JF3	50V 2200P
C451, 452	ECKR1H333ZF5	50V 0.033U
C453-456	ECCV2H680K	500V 68P
C457-460	ECEA1HKA3R3B	50V 3.3U
C501-504	ECA0JPXS101B	6V 100U
C505, 506	ECQV1H473JM3	50V 0.047U
C507	ECEA1CKA101B	16V 100U
C508	ECA1HM470B	50V 47U
C509	ECEA1HN100SB	50V 10U
C511, 512	ECBT1H270J5	50V 27P
C513-518	ECQV1H473JM3	50V 0.047U
C519-522	ECQB1H393JF3	50V 0.039U
C523, 524	ECBT1H102KB5	50V 1000P
C525, 526	ECKD1H821KB	50V 820P
C531, 532	ECBT1C332KR5	16V 3300P
C601	ECEA1HKAR47B	50V 0.47U (EB, EO, GC)
C602	ECEA1CKA100B	16V 10U (EB, EO, GC)
C603	ECEA1HKA3R3B	50V 3.3U (EB, EO, GC)
C604	ECEA1HKA010B	50V 1U (EB, EO, GC)
C605	ECEA0JKA331Q	6.3V 330U (EB, EO, GC)
C701, 702	ECETX56103KM	56V 10000U Δ
C703, 704	ECHR1H103JZ3	50V 0.01U
C707, 708	ECA1JPXH560B	63V 56U
C709, 710	ECQE2334KF3	250V 0.33U
C711	ECQE2104KF3	250V 0.1U
C712	ECBT1C103NS5	16V 0.01U
C713	ECBT1H104ZF5	50V 0.1U
C714	ECA1CM471B	16V 470U
C715	ECEA1HKA010B	50V 1U
C716	ECA1CM102B	16V 1000U
C751-754	ECA1EPXS470B	25V 47U
C755, 756	ECEA1HBZ4R7B	50V 4.7U
C757, 758	ECA2APXS100B	100V 10U

Ref. No.	Part No.	Values & Remarks
C801-803	ECBT1C103NS5	16V 0.01U
C804	ECEA0JU102	6.3V 1000U
C805	ECEA1HKAR47B	50V 0.47U
C806	ECEA1HKA2R2B	50V 2.2U
C807	ECBT1H102KB5	50V 1000P
C808	ECEA0JKA101B	6.3V 100U
C809	ECBT1C103NS5	16V 0.01U
C810	ECEA1KA470B	10V 47U
C811	ECBT1H101KB5	50V 100P
C812, 813	ECKR1H103ZF5	50V 0.01U
C814, 815	ECA1HPXS4R7B	50V 4.7U
C820	ECQV1H224JM3	50V 0.22U
C821	ECBT1H473ZF5	50V 0.047U

PACKAGING

