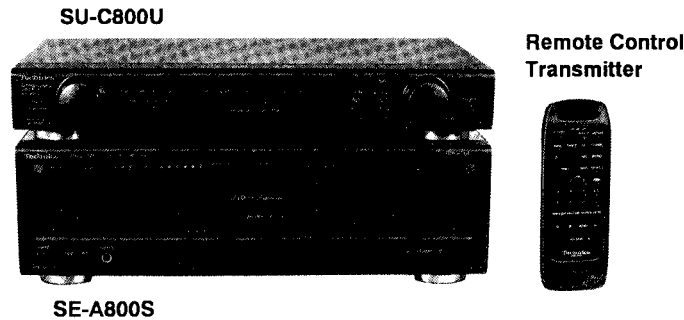


Service Manual

Power Amplifier

Amplifier

SE-A800S



SU-C800U

Remote Control
Transmitter

SE-A800S

Colour

(K) : Black

Areas

Suffix for Model No.	Area	Colour
(E)	Europe	(K)
(EB)	Britain	
(EG)	Germany and Italy	

Because of unique interconnecting cables, when a component requires service, send or bring in the entire system.

System: SU-A800D

Control amplifier	SU-C800U
Power amplifier	SE-A800S

Specifications (DIN 45 500)

20 Hz – 20 kHz continuous power output both channels driven	2 × 55 W (8 Ω)
1 kHz continuous power output both channels driven (THD: 1%)	2 × 70 W (8 Ω) 2 × 100 W (4 Ω)
63 Hz – 12.5 kHz continuous power output both channels driven (THD: 0.7%)	2 × 65 W (8 Ω) 2 × 85 W (4 Ω)
Total harmonic distortion rated power at 20 Hz – 20 kHz	0.01% (8 Ω)
Intermodulation distortion (50 Hz: 7 kHz = 4:1, SMPTE)	0.007% (8 Ω)
Residual hum and noise	0.3 mV
Damping factor	70 (8 Ω) 35 (4 Ω)
Headphones output level/impedance	540 mV/330 Ω (Ø 6.3)
Load impedance	
A or B, BI-WIRING	4 Ω – 16 Ω
A and B	8 Ω – 16 Ω
Input sensitivity/impedance	1 V/33 kΩ
S/N (rated power, 4 Ω)	95 dB (110 dB, IHF '66)
Frequency response	5 Hz – 70 kHz (+0, – 3 dB) +0 dB, – 0.5 dB (20 Hz – 20 kHz)

■ GENERAL

Power consumption	230 W
Power supply	
For (E) and (EG) areas	50 Hz/60 Hz AC, 230 V
For (EB) area	50 Hz/60 Hz AC, 230 V – 240 V
Dimensions (W × H × D)	430 × 136 × 348 mm
Weight	8.7 kg

Notes:

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

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Technics®

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Before Repair

- 1) Turn off the power supply. Using a 10 Ω, 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 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	100 ~ 200 mA	100 ~ 200 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.

When this occurs, follow the procedure outlined below:

Switch OFF the power.

Determine the cause of the problem and correct it.

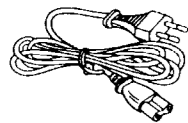
Switch ON the power once again.

Note:

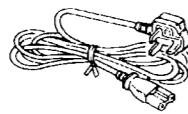
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

Accessories

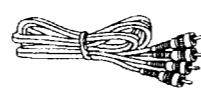
AC power supply cord
(E, EG) areas : (RJA0019-2K) 1



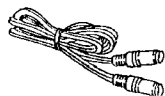
(EB) area : (VJA0733) 1



• Stereo connection cable
(SJP2276) 1



Amplifier connection cable
(RJL6D001B10) 1



• Remote control transmitter
(RAK-SU180WH) 1



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



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.

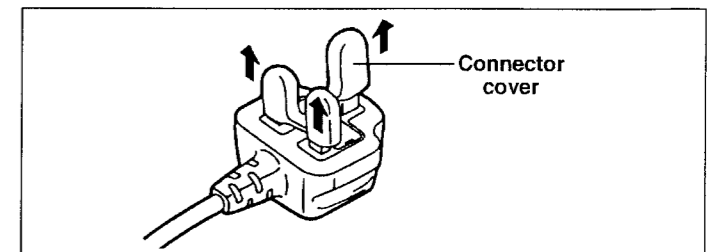
This apparatus was produced to BS 800.

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 .

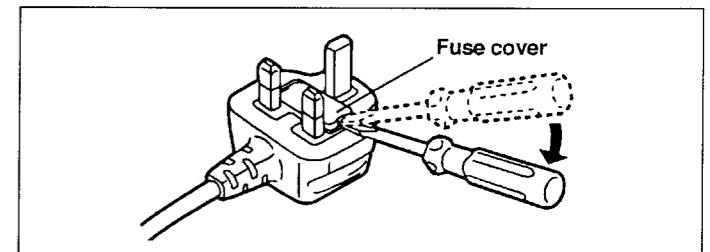
Before use

Remove the connector cover as follows.

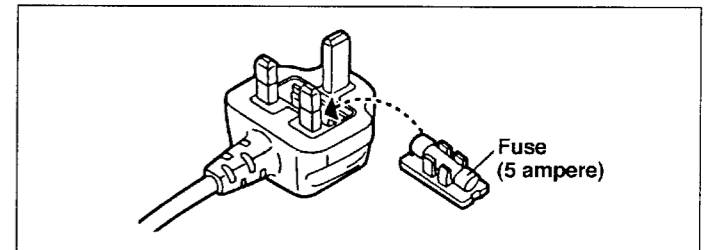


How to replace the fuse

1. Remove the fuse cover with a screwdriver.



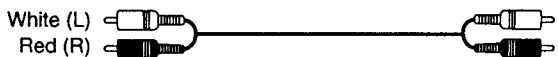
2. Replace the fuse and attach the fuse cover.



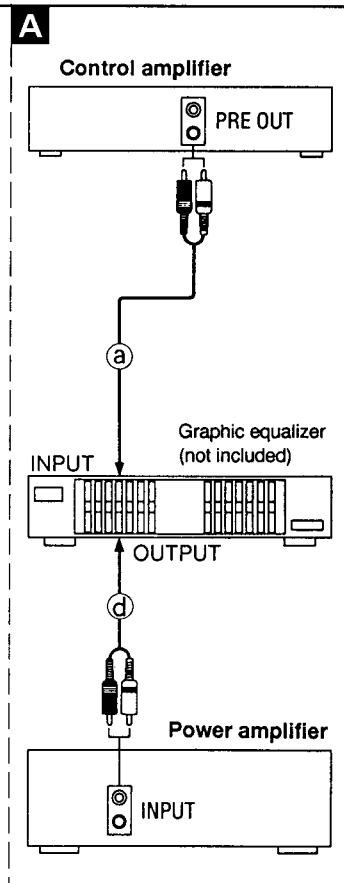
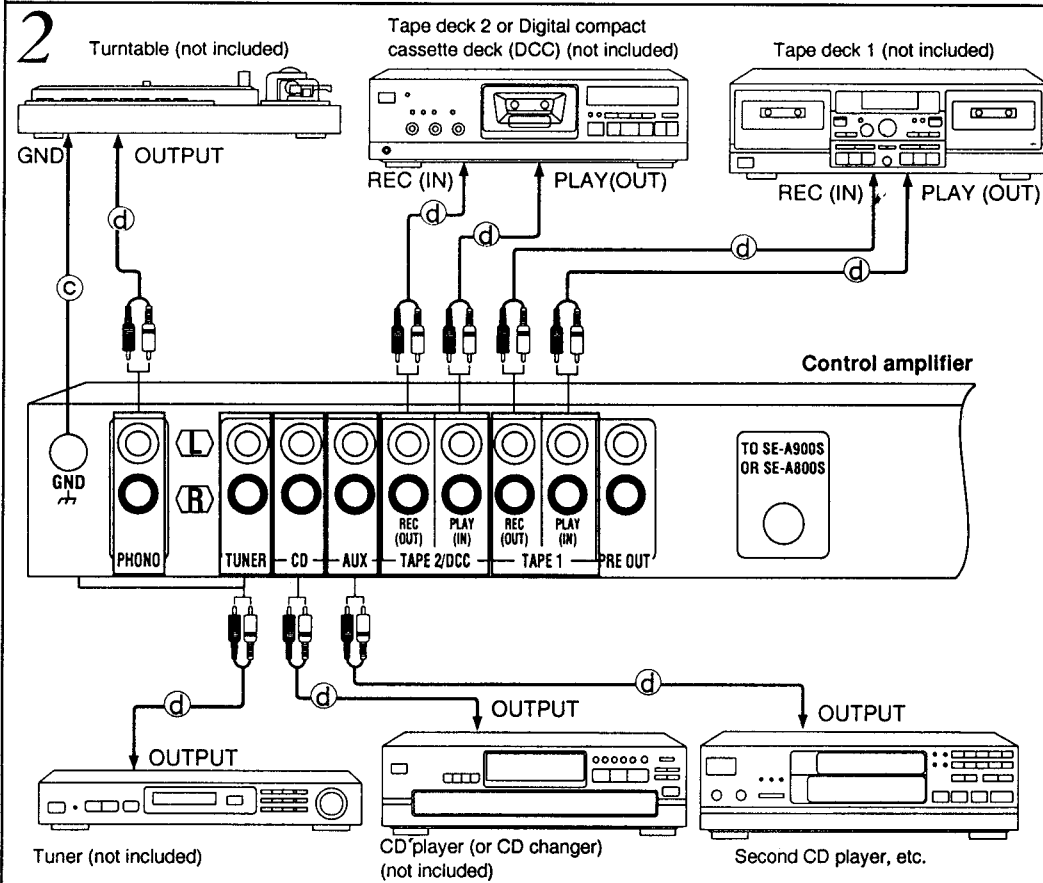
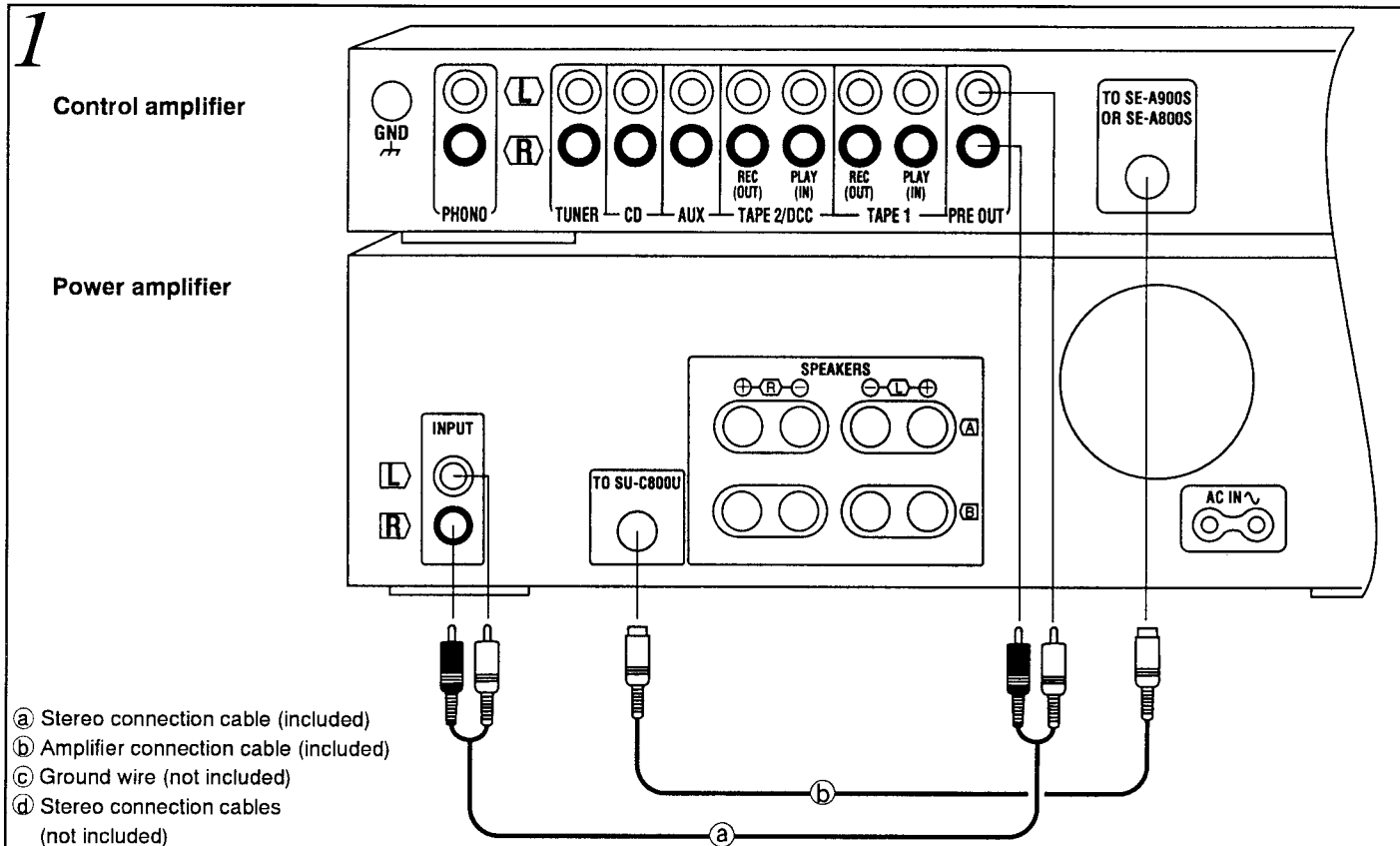
■ Connecting the Audio Components

Make sure that the power supply for all components has been turned off before making any connections.

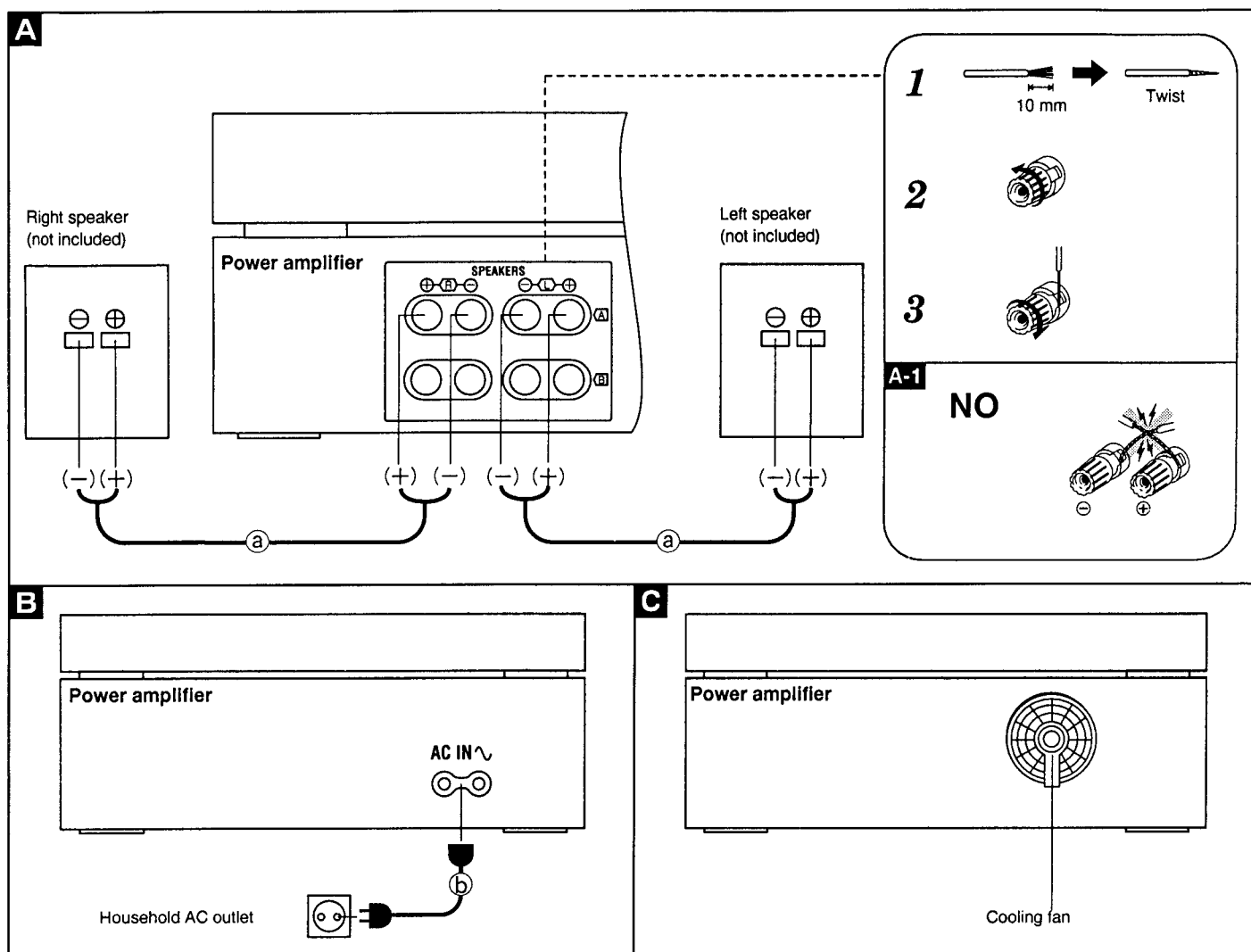
Stereo connection cable



If connecting a graphic equalizer **A**
Connect it between the PRE OUT terminals of the control amplifier and INPUT terminals of the power amplifier.



■ Connecting the Speakers and Power Supply



Connecting the speakers **A**

ⓐ Speaker cables (not included)

The wires which are connected to the positive (+) terminals of the amplifier should be connected to the positive (+) terminals of the speakers. The negative (-) terminals should be connected in a similar way.

“B” terminals

For connection to a second pair of speakers.

Speaker impedance

- When only the “A” or only the “B” terminals are used: 4–16 Ω
- When both the “A” and the “B” terminals are used simultaneously: 8–16 Ω

CAUTION **A-1**

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

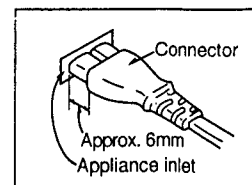
Connecting the power supply **B**

Connect the power supply only after all other connections have been made.

ⓑ AC power supply cord (included)

Insertion of Connector

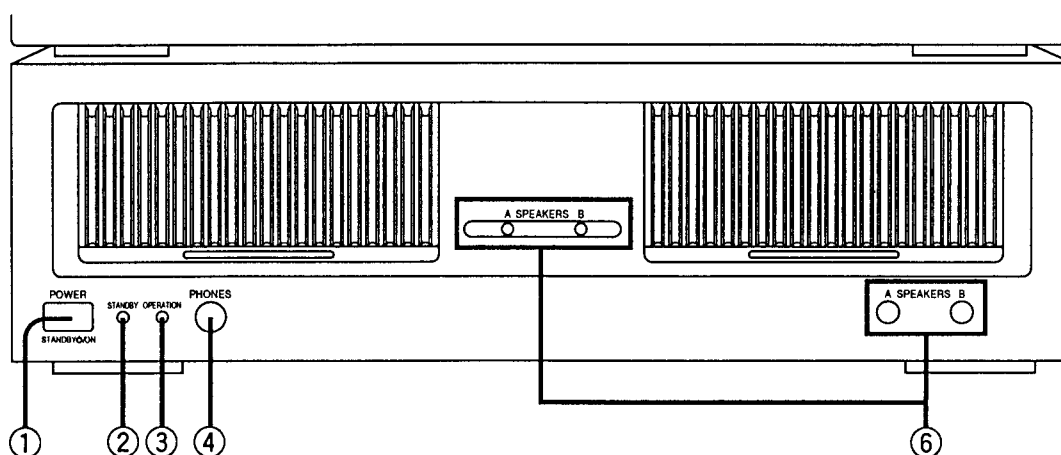
Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing. However there is no problem using the unit.



Cooling fan **C**

The cooling fan operates at high power output levels only.

■ Front Panel Controls



Power amplifier

① Power "STANDBY /ON" switch

(POWER, STANDBY /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.

Note

This switch will not operate when the control amplifier is in standby mode.

② "STANDBY" indicator (STANDBY)

When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.

③ Operation indicator (OPERATION)

This indicator illuminates when the power amplifier is in the normal operating condition.

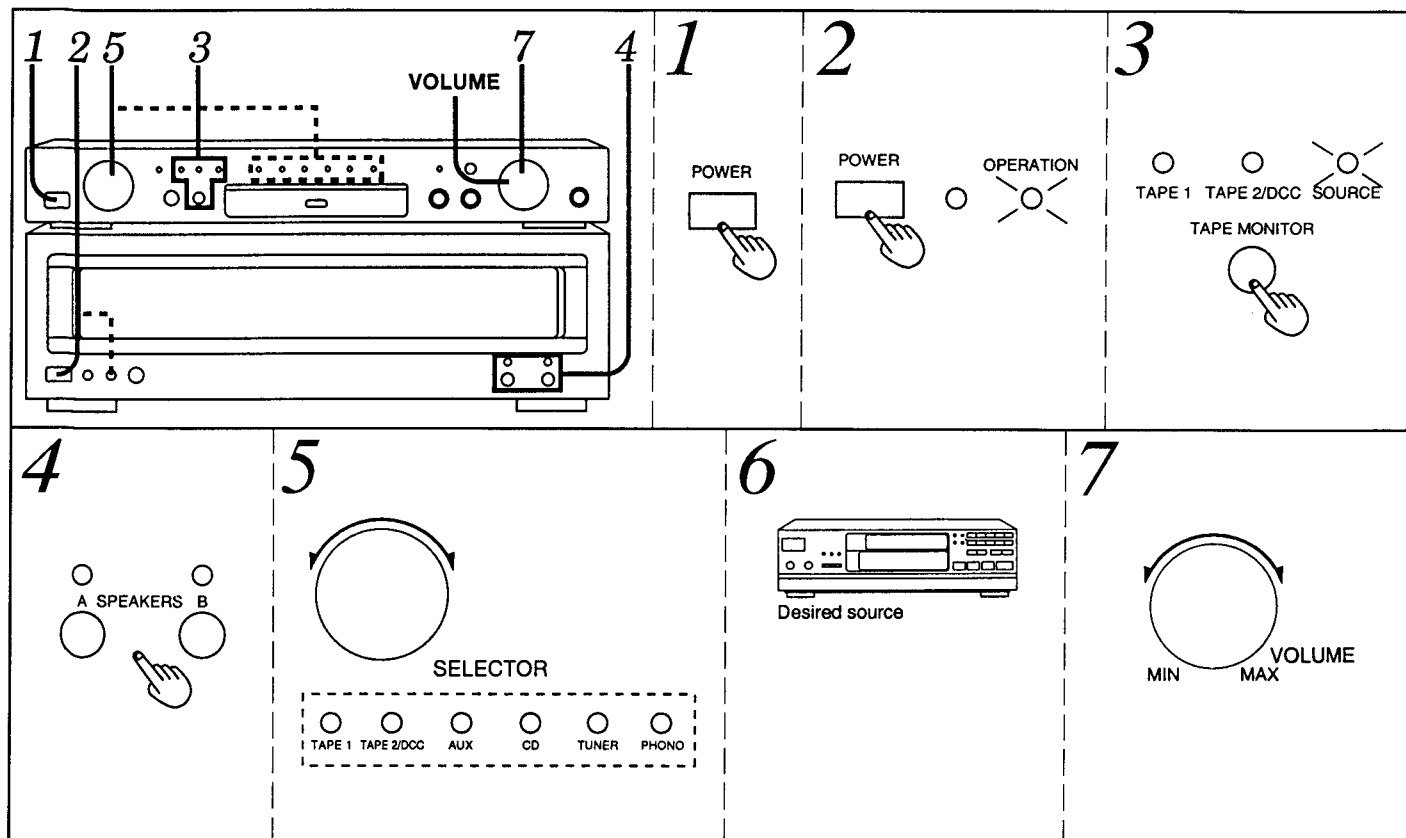
If the (+) and (-) wires of the speaker cables are shorted, or if a circuit abnormality such as DC voltage in the power output to the speakers is detected, the protection circuit will operate and the "OPERATION" indicator will turn off.

④ Headphones jack (PHONES)

⑥ Speaker select buttons/indicators (SPEAKERS)

(ϕ 6.3, 330 Ω)

■ Listening to Sound



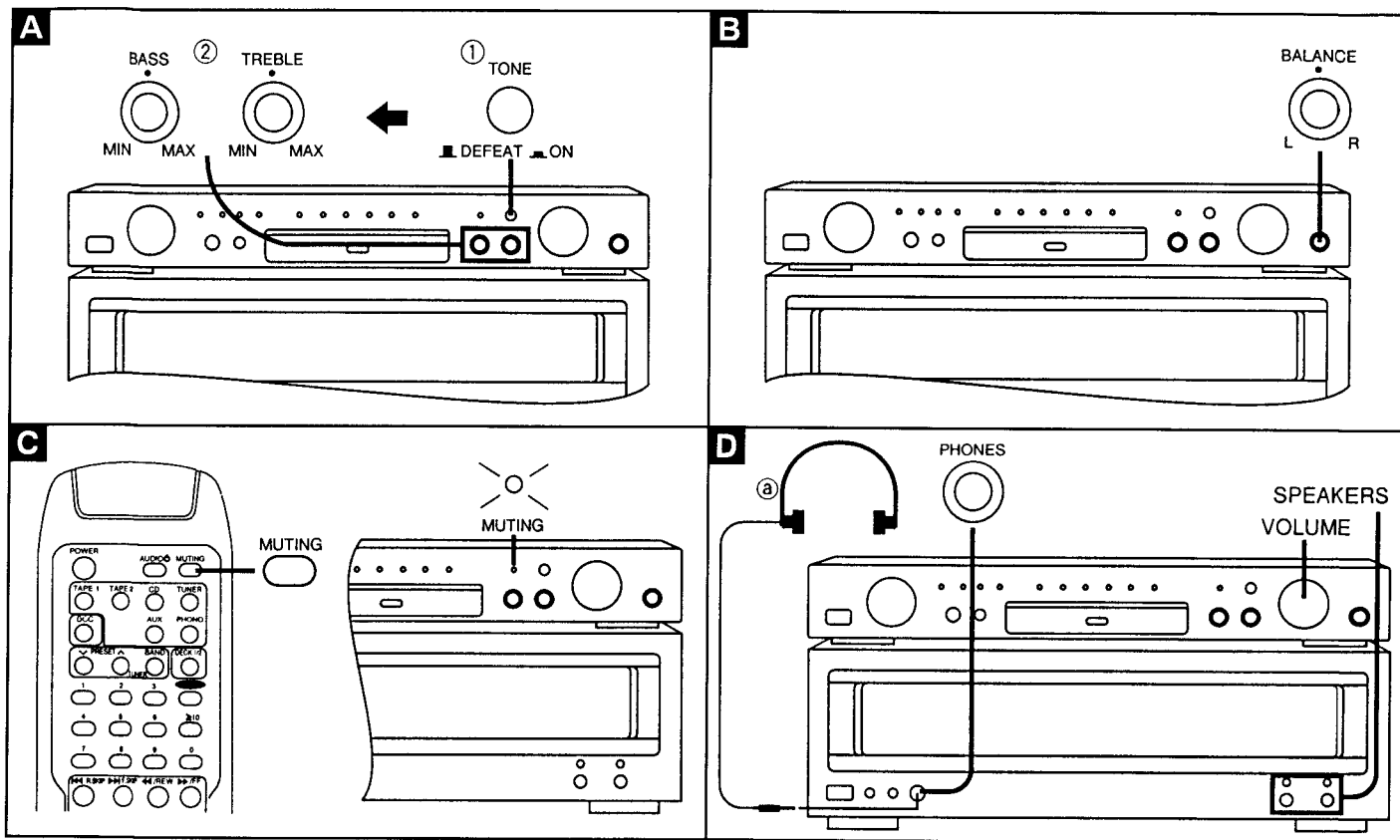
Before operation, set VOLUME to the "MIN" position.

- 1 Press POWER of the control amplifier.**
- 2 Press POWER of the power amplifier.**
The "OPERATION" indicator will illuminate after approximately 4 seconds.
Once the power amplifier has been turned on, both amplifiers can then be turned on or to standby mode using POWER on the control amplifier.
- 3 Press TAPE MONITOR so that the "SOURCE" indicator illuminates.**
Each time the button is pressed, the indication will change as follows.
TAPE 1 → TAPE 2/DCC → SOURCE
- 4 Press A and/or B to select the speaker system(s) to be used.**
The corresponding indicator(s) will illuminate.

- 5 Turn SELECTOR to select the desired source.**
The indicator which corresponds to the selected input source will illuminate.
TAPE 1: Tape deck 1
TAPE 2/DCC: Tape deck 2 or DCC
AUX: Component connected to the AUX terminals
CD: CD player (or CD changer)
TUNER: Tuner
PHONO: Turntable
- 6 Start the desired source.**
(Refer to the appropriate operating instructions for details.)
- 7 Turn VOLUME to adjust the volume level.**

After listening is finished

Be sure to reduce the volume level, and turn off the units by pressing POWER of the control amplifier.



To adjust the tone quality **A**

- ① Press TONE in to the "ON" position.
- ② Turn BASS to adjust the low-frequency sound.
Turn TREBLE to adjust the high-frequency sound.

If listening without adjusting the tone quality, press TONE so that it is at the "DEFEAT" position.

To adjust the sound balance **B**

Turn BALANCE to adjust the left/right sound balance.

To mute the sound level **C**

Press MUTING on the remote control transmitter.
(The "MUTING" indicator on the amplifier will illuminate.)

Press once again to return to the previous volume level. (The "MUTING" indicator will turn off.)

To listen through headphones **D**

Use VOLUME to reduce the volume level, and connect the headphones.

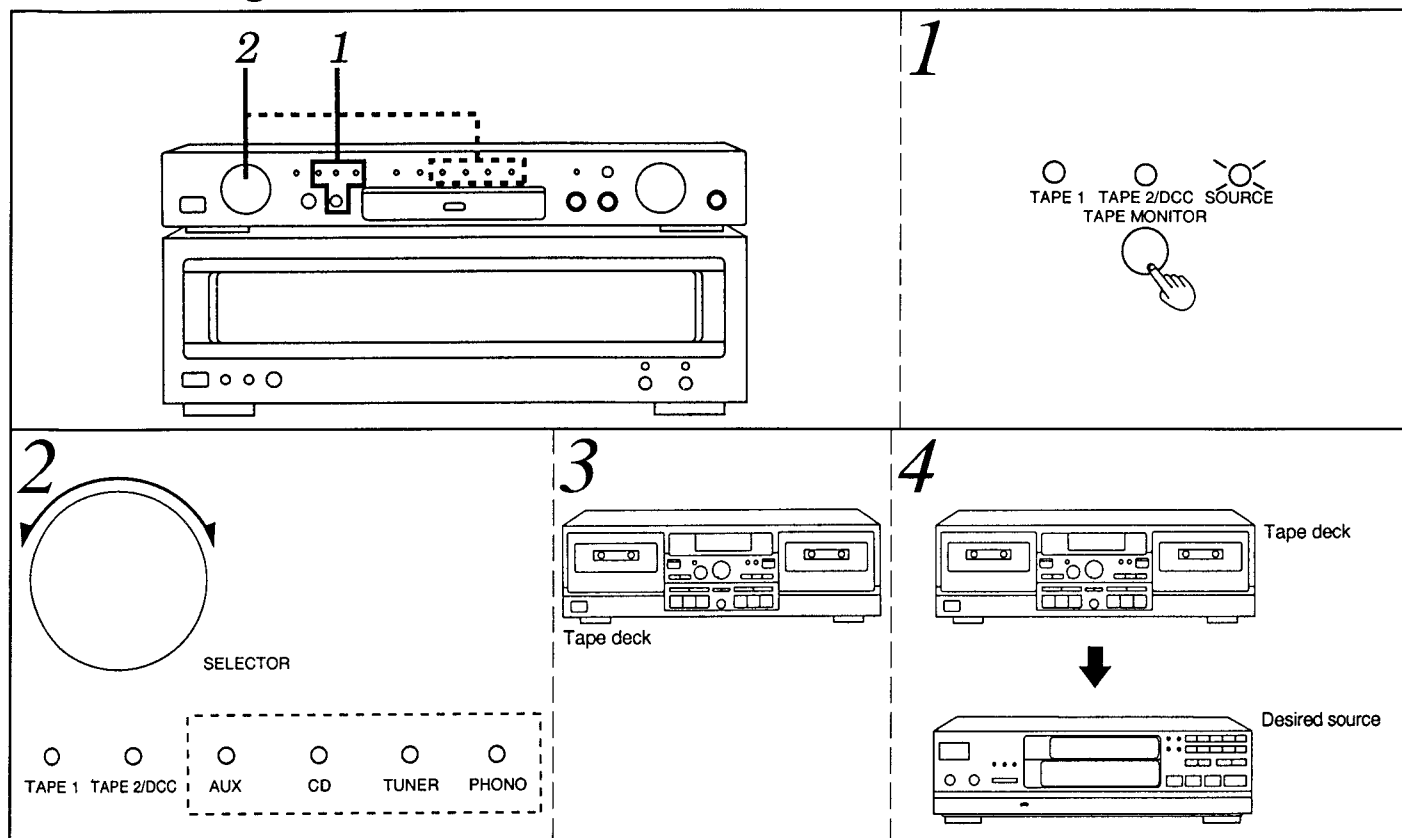
- Ⓐ Headphones (not included)
Plug type: 6.3 mm phone plug stereo type

If sound from speakers is not wanted, press SPEAKERS (A) and/or (B) to turn off the speaker indicators.

Note

Avoid listening for prolonged periods of time to prevent hearing damage.

■ Recording



It is possible to record from units which are connected to the rear "AUX", "CD", "TUNER" or "PHONO" terminals to cassette tape decks or DCC decks which are connected to the "TAPE 1" or "TAPE 2/DCC" terminals.

- 1** Press **TAPE MONITOR** so that the "SOURCE" indicator illuminates.
- 2** Turn **SELECTOR** to select the desired source to be recorded.
AUX: Component connected to the AUX terminals
CD: CD player (or CD changer)
TUNER: Tuner
PHONO: Turntable
- 3** Prepare the tape deck for recording.
Refer to the operating instructions for the tape deck for detailed adjustment of the recording level, etc.
- 4** Start the tape deck for recording, and play the source.

Recording from tape to tape

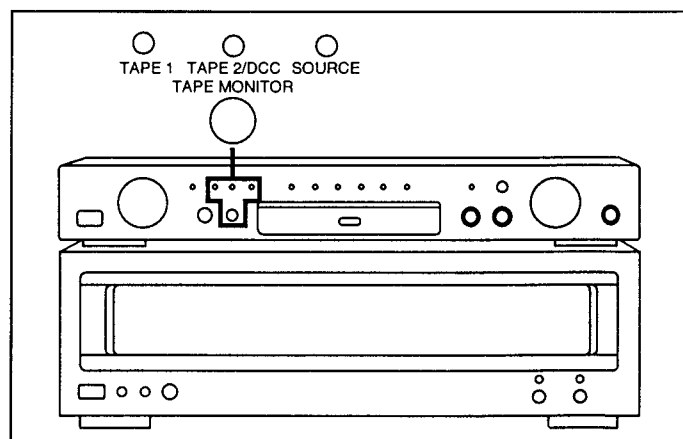
It is possible to record from tape deck 1 to tape deck 2 (or DCC) and vice versa.

To record from tape deck 1 to 2

1. Press **TAPE MONITOR** so that the "SOURCE" indicator illuminates.
2. Turn **SELECTOR** so that the "TAPE 1" indicator illuminates.
3. Begin tape deck 2 for recording and tape deck 1 for playback.

To record from tape deck 2 to 1

1. Press **TAPE MONITOR** so that the "SOURCE" indicator illuminates.
2. Turn **SELECTOR** so that the "TAPE 2/DCC" indicator illuminates.
3. Begin tape deck 1 for recording and tape deck 2 for playback.



To check the sound recorded while recording is being made

If a cassette tape deck with 3 heads is connected to the "TAPE 1" or "TAPE 2/DCC" terminals, it is possible to check the sound being recorded onto the tape.

Press **TAPE MONITOR** to select the deck (tape deck 1 or 2) and set the monitor switch on the tape deck to "TAPE".

TAPE 1: when recording on tape deck 1
TAPE 2/DCC: when recording on tape deck 2

Note

Be sure to switch the illuminated tape monitor indicator back to "SOURCE" once you have finished monitoring the sound being recorded.

■ Operation Check and Main Component Replacement Procedures

NOTE

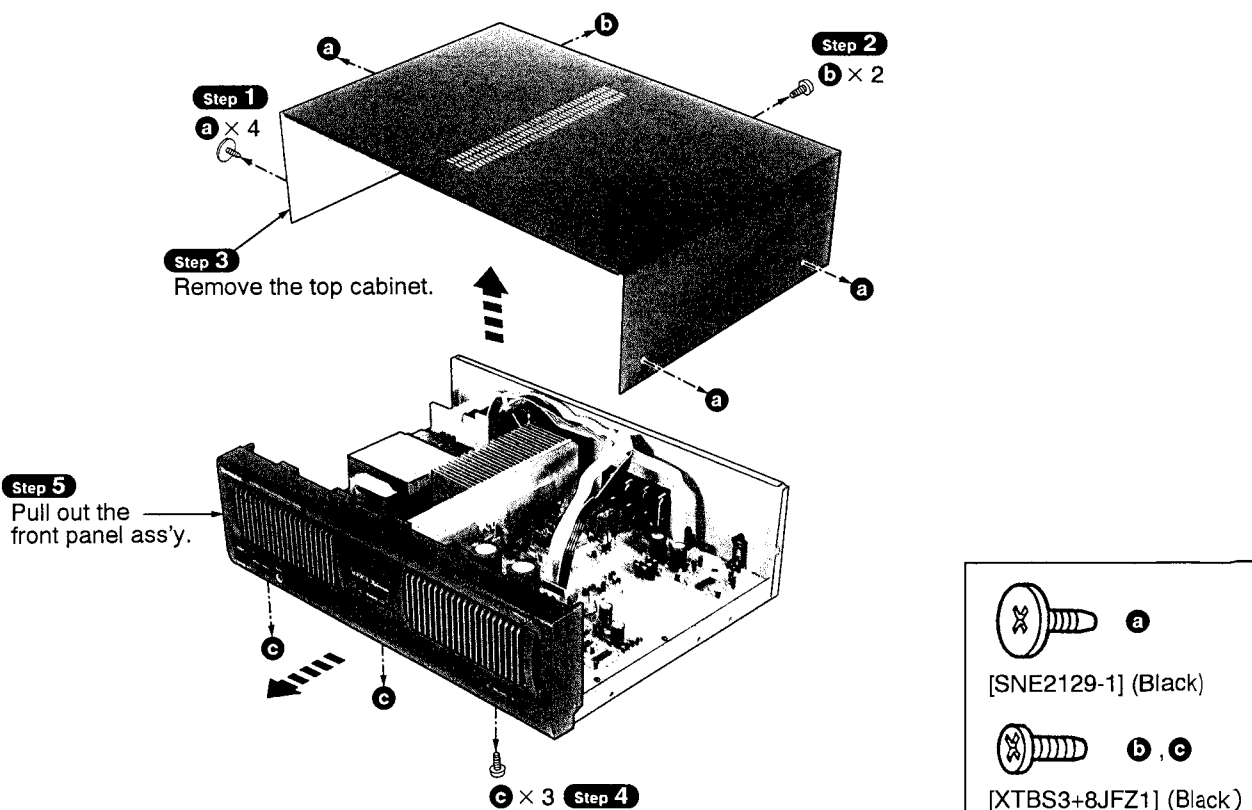
1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.
3. Select items from the following index when checks or replacement are required.
4. Illustrated screws are equivalent to actual size.
5. Refer the parts No. on the page of "Main Component Replacement Procedures", if necessary.

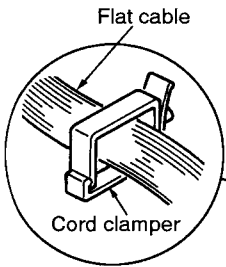
● Contents

•Checking Procedure for each P.C.B.	Page.
1.Checking for the main P.C.B.	10,11.
•Main Component Replacement Procedures	
1.Replacement for the foot.	12.
2.Replacement for the power IC and regulator transistor.	12,13.
3.Replacement for the fan motor.	13.

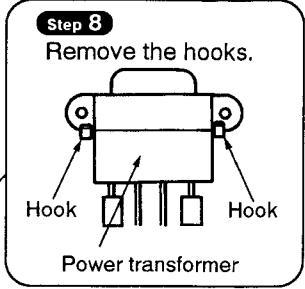
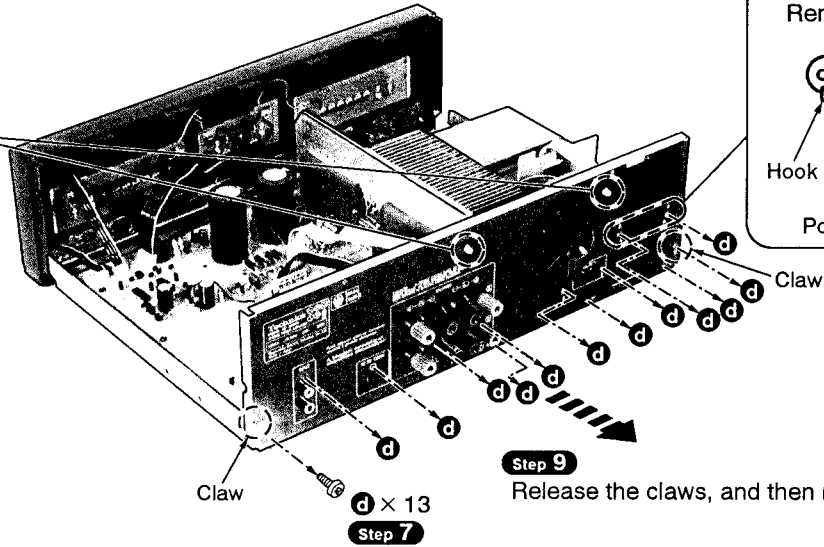
■ Checking Procedure for each P.C.B.

1. Checking for the main P.C.B.

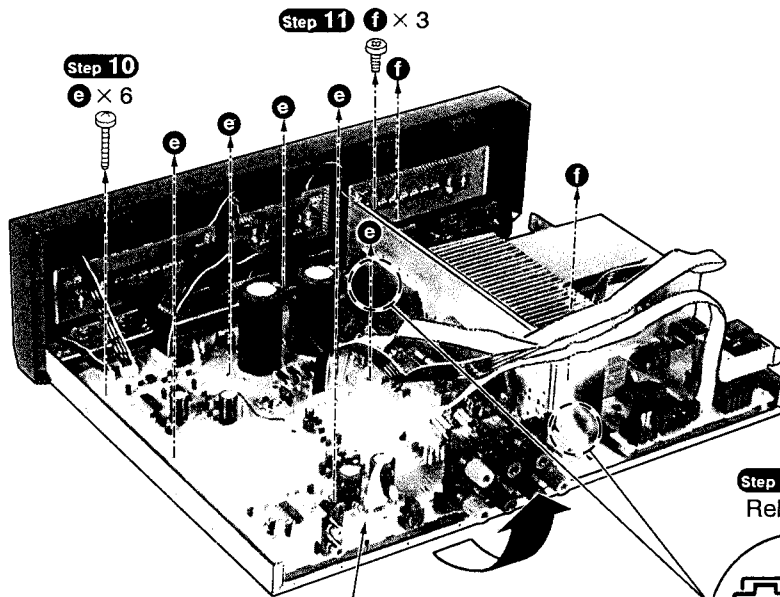




Step 6
Remove the flat cable from cord clamber.

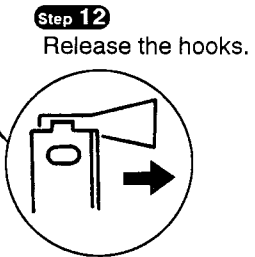


Step 9
Release the claws, and then remove the rear panel.

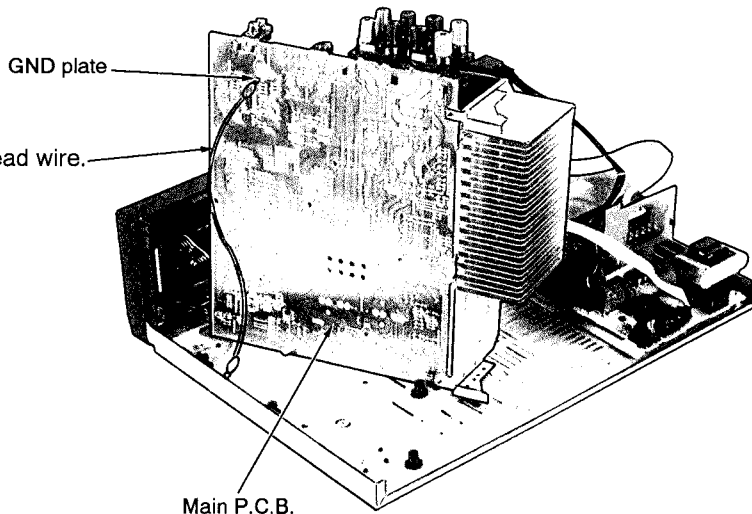


• Check the main P.C.B. as shown below.

Step 13
Raise the main P.C.B.



Step 14
Connect the lead wire.



- d**
[XTBS3+8JFZ1](Black)
- e**
[XTB3+20JFZ](Black)
- f**
[XTB3+8JFZ](Black)

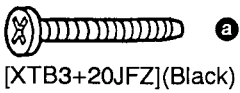
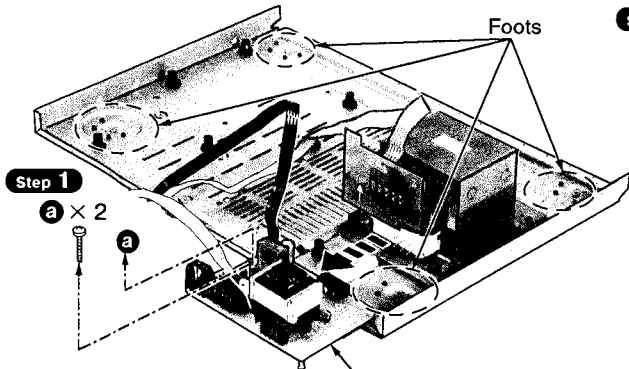
■ Main Component Replacement Procedures

1. Replacement for the foot

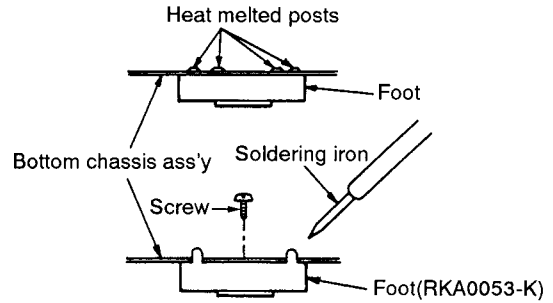
• Follow the **Step 1** ~ **Step 12** in item 1 on checking procedure for each P.C.B. on pages 10 and 11.

Step 3 Remove the 4 heat melted posts on the bottom chassis ass'y with a pair of nippers or similar tool.

Step 4 To replace the foot(RKA0053-K) on the bottom chassis ass'y melt the 4 posts with a soldering iron or install it with a screw (XTB3+6J)



Step 2 Remove the power supply P.C.B.

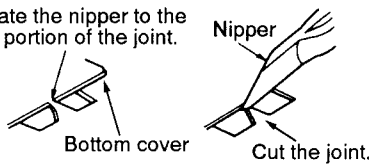


2. Replacement for the power IC and regulator transistor

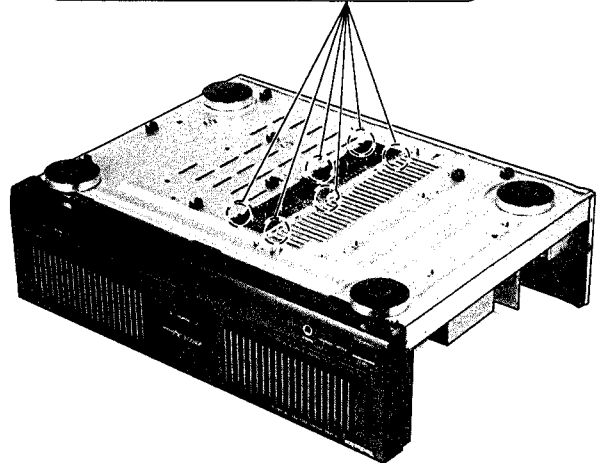
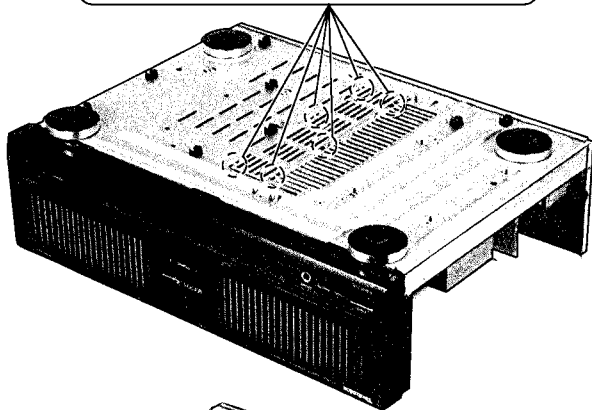
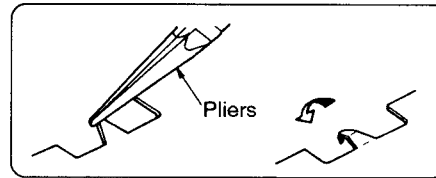
• Follow the **Step 1** ~ **Step 3** in item 1 on checking procedure for each P.C.B. on page 10.

Step 1 Cut the joints as shown below.(6 portions)

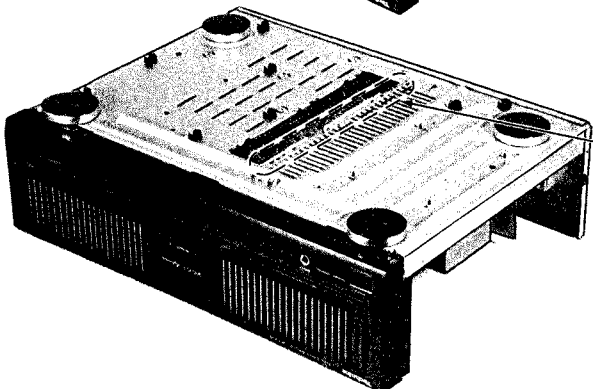
Locate the nipper to the thin portion of the joint.

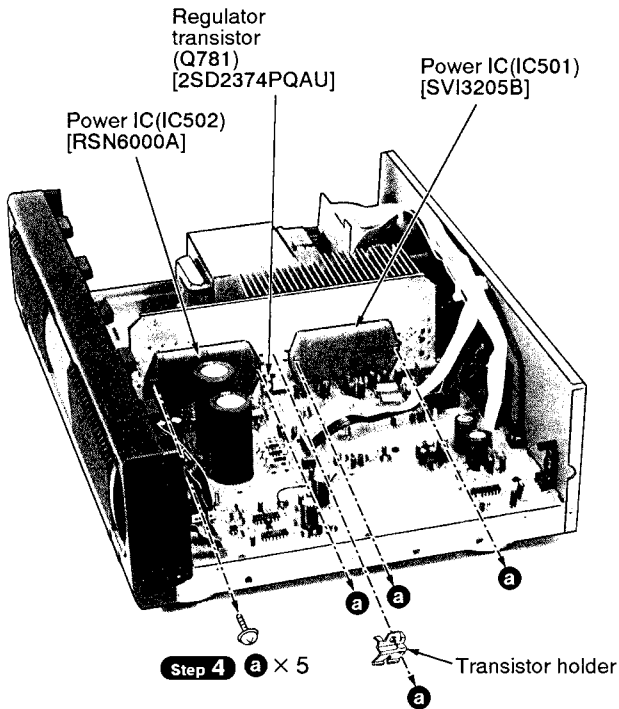


Step 2 Fold the joints.(6 portions)

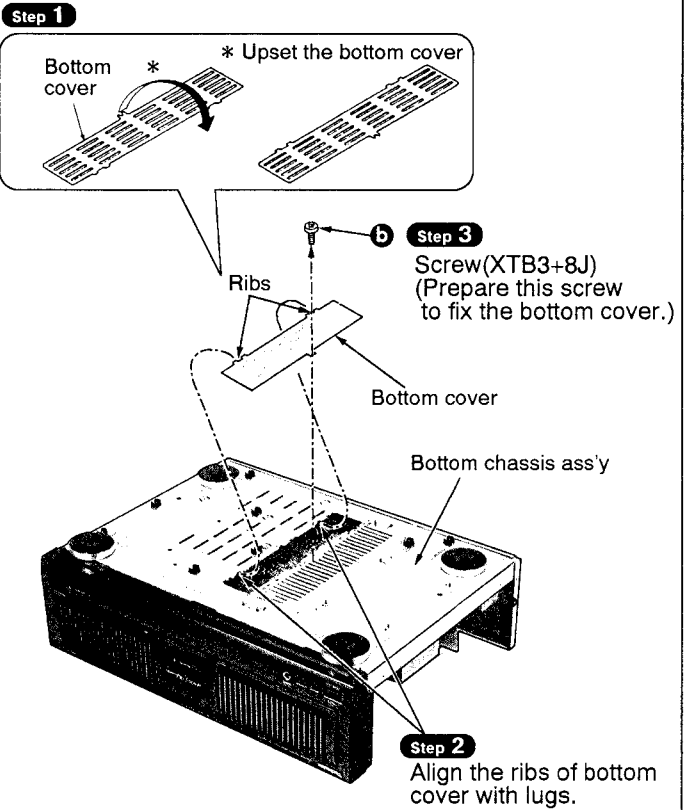


Step 3 Unsolder the terminals of power IC and regulator transistor.



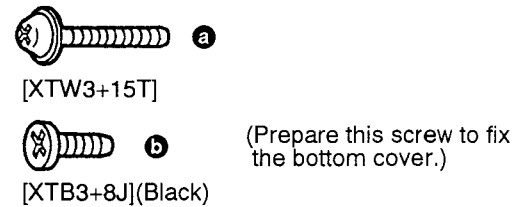


Installation of the bottom cover after replacement



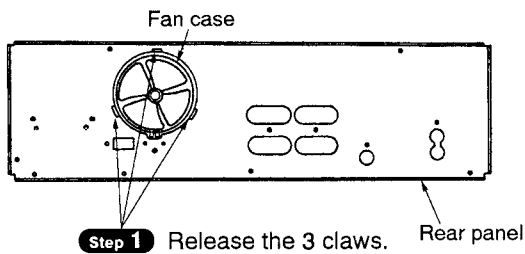
CAUTION

1. After replacing the power IC or regulator transistor, apply a sufficient quantity of compound grease (RFKX0002) between the heat sink and the power IC or regulator transistor (Radiation of power IC).
2. Tighten enough the screws (a) after replacing the power IC and regulator transistor. Otherwise, the heat radiation works little.



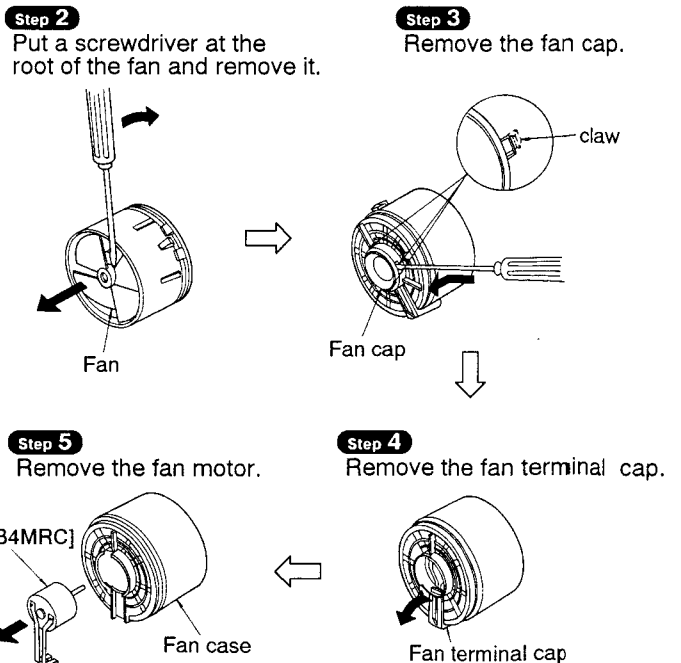
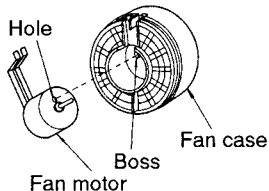
3. Replacement for the fan motor

• Follow the Step 1 ~ Step 9 in item 1 on checking procedure for each P.C.B. on pages 10 and 11.



NOTE

When replacing the fan motor, align the boss of the fan case with the hole of the fan motor.



■ Schematic Diagram

	Page
A MAIN CIRCUIT	15~18
B S.P. SWITCH CIRCUIT	18
C HEADPHONES JACK CIRCUIT	18
D POWER SWITCH CIRCUIT	18
E LED (SP) CIRCUIT	18
F LED (R ch) CIRCUIT	18
G LED (L ch) CIRCUIT	18
H POWER SUPPLY CIRCUIT	18
I POWER TRANSFORMER CIRCUIT	18

- This schematic diagram may be modified at any time with the development of new technology.

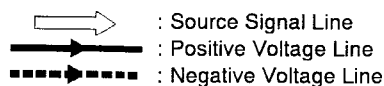
Notes:

- **S801** : Power "STANDBY ϕ /ON" switch (POWER, STANDBY ϕ /ON)
- **S802** : Speaker select switch (SPEAKER A)
- **S803** : Speaker select switch (SPEAKER B)

- Voltage values and waveforms are measured as indicated in the schematic diagram when test points between **TP701** and **TP701** , and between **TP703** and **TP704** are shorted.

- 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

- Voltage and signal line



- Important safety notice:

Components identified by \triangle 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.

- **Caution!**

IC and LSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

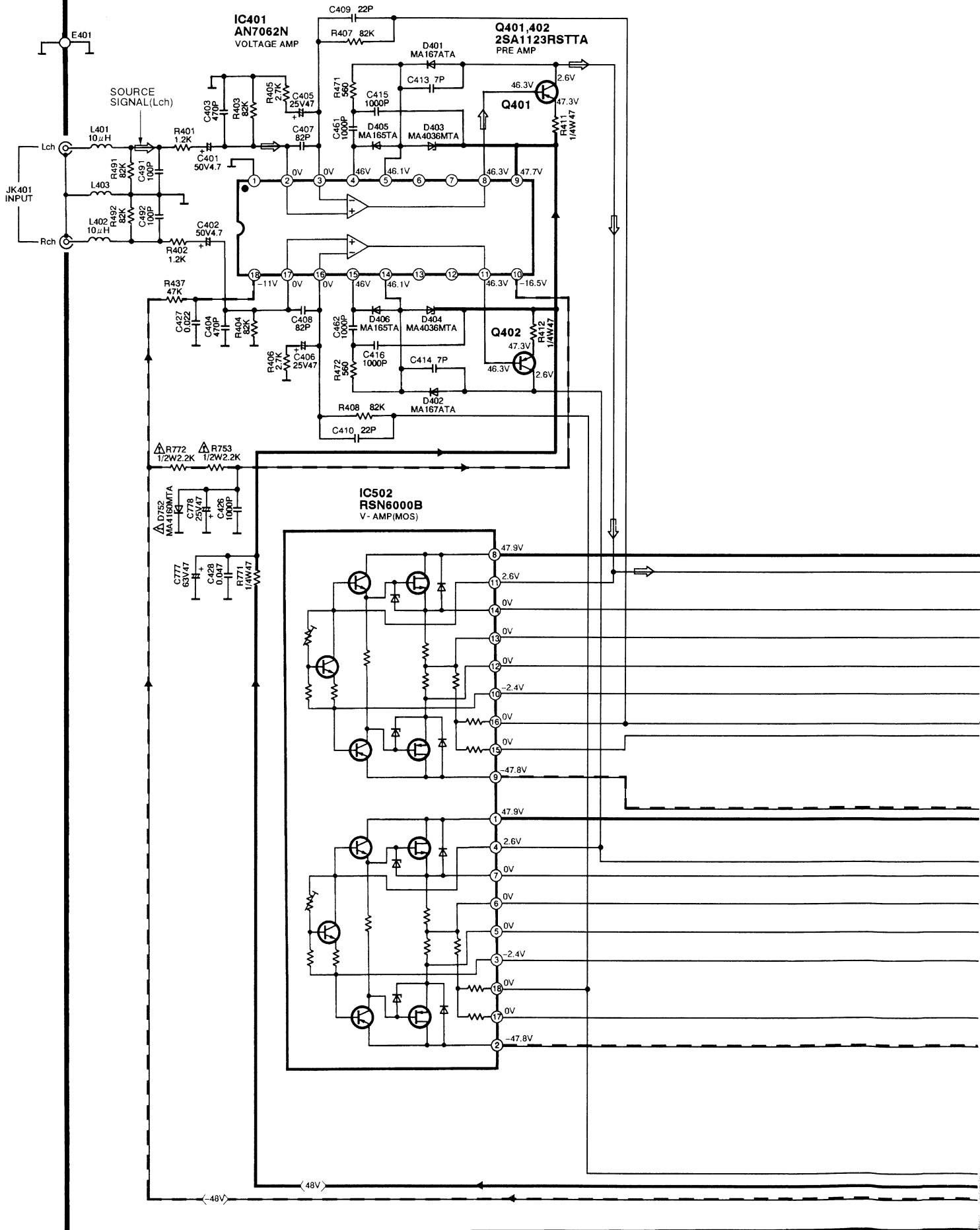
Cover the parts boxes made of plastics with aluminum foil.

Ground the soldering iron.

Put a conductive mat on the work table.

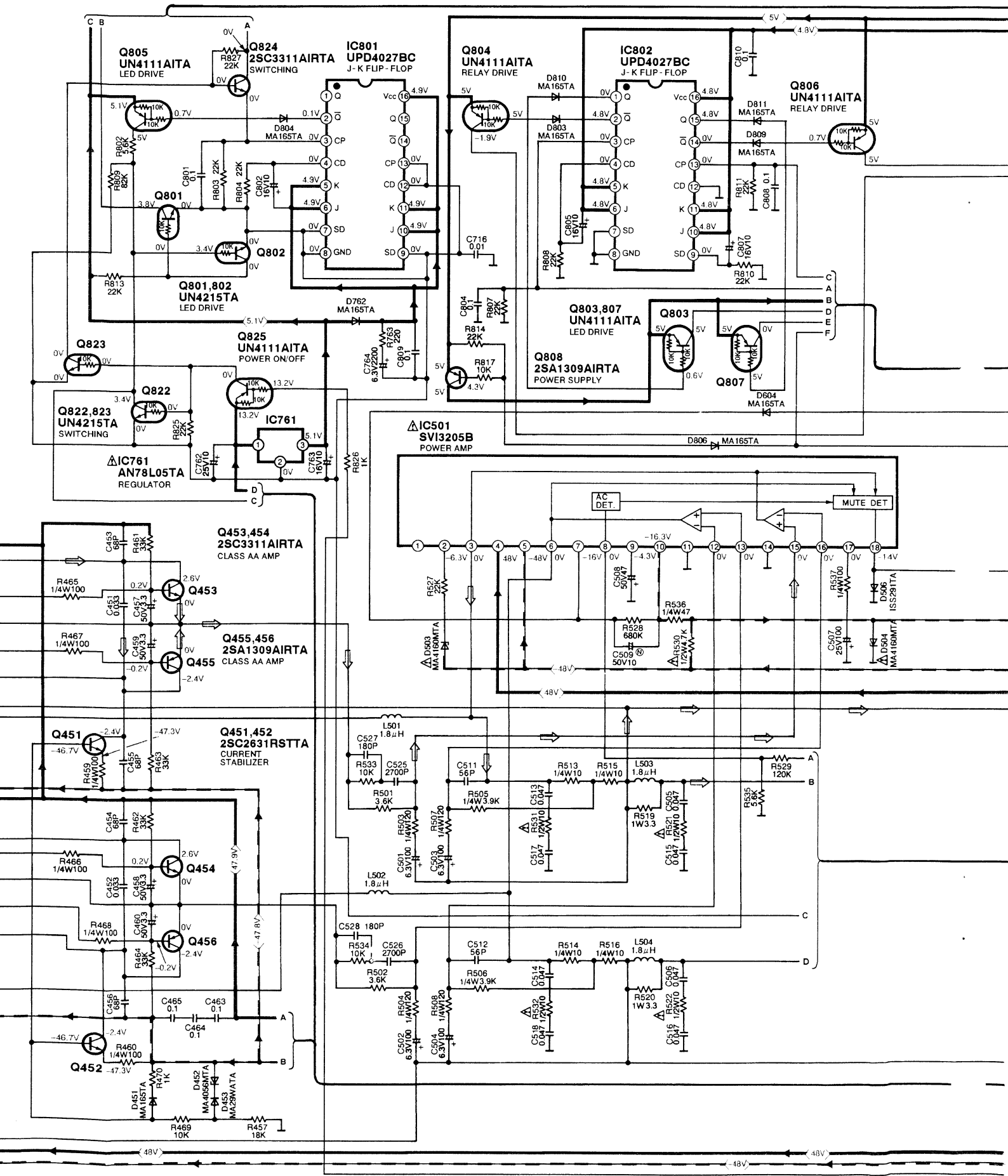
Do not touch the legs of IC or LSI with the fingers directly.

A MAIN CIRCUIT (P.C.Board: on pages 20,21)

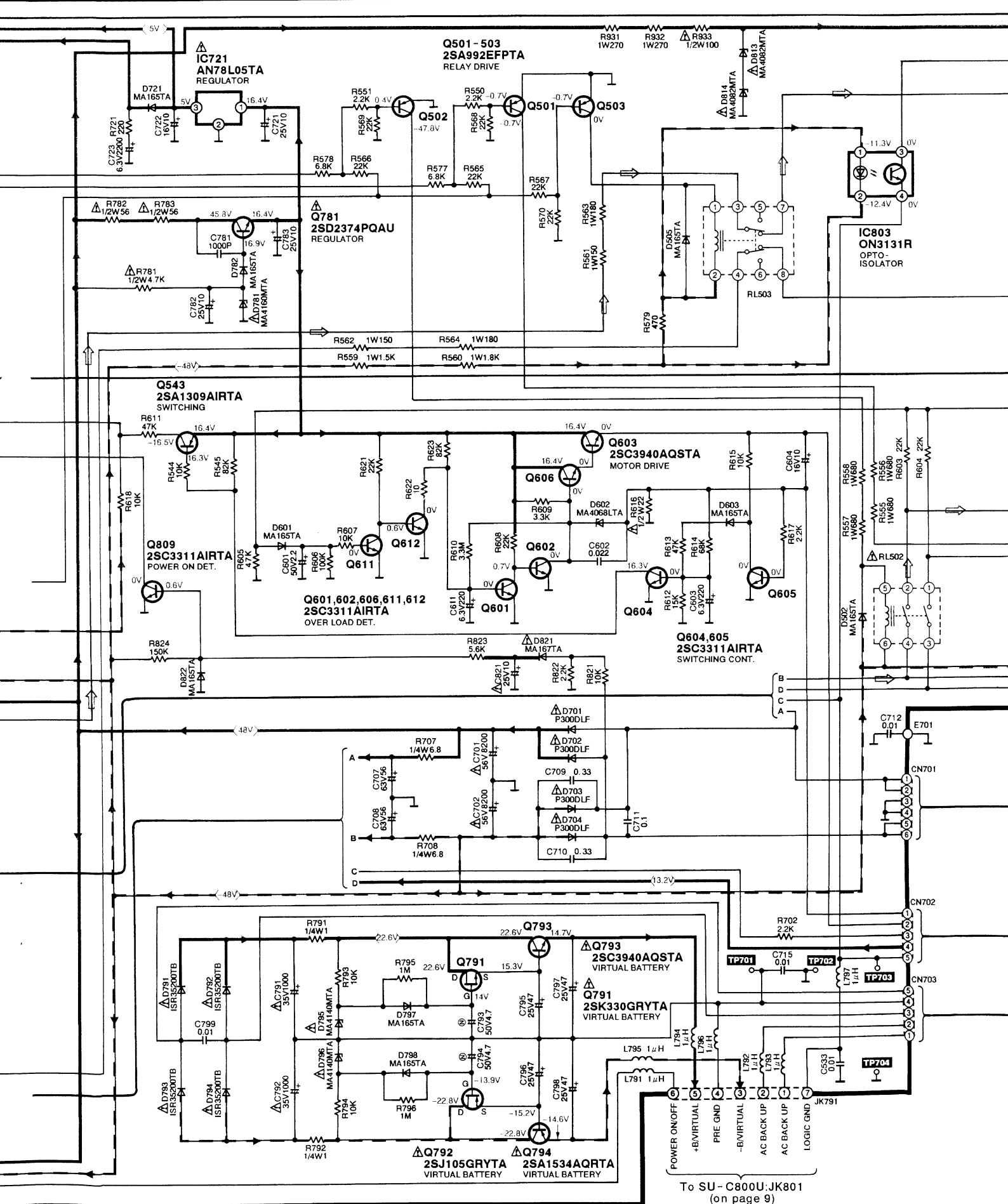


SE-A800S

→ : Positive Voltage Line - - - - - : Negative Voltage Line ⇨ : Source Signal Line

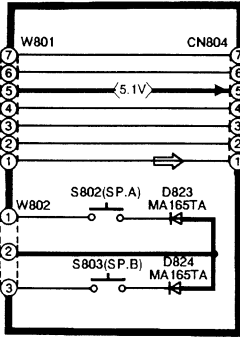


A MAIN CIRCUIT (P.C.Board: on pages 20,21)

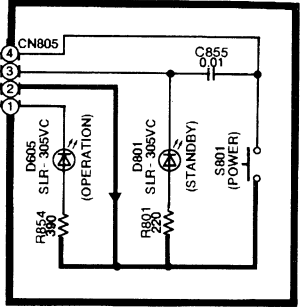


To SU-C800U:JK801 (on page 9)

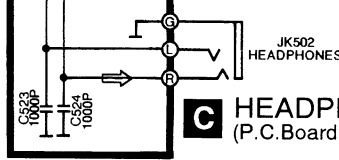
B SP. SWITCH CIRCUIT
(P.C.Board: on pages 20,21)



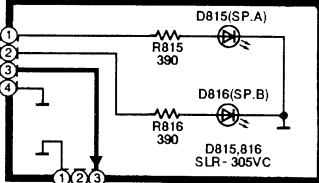
D POWER SWITCH CIRCUIT
(P.C.Board: on page 19)



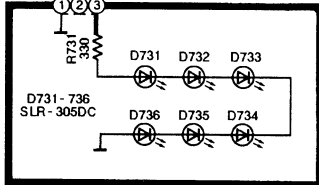
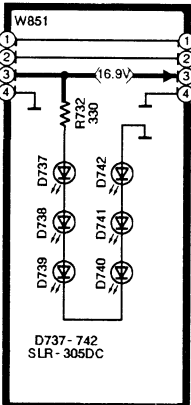
C HEADPHONES JACK CIRCUIT
(P.C.Board: on page 19)



E LED(SP) CIRCUIT
(P.C.Board: on page 22)

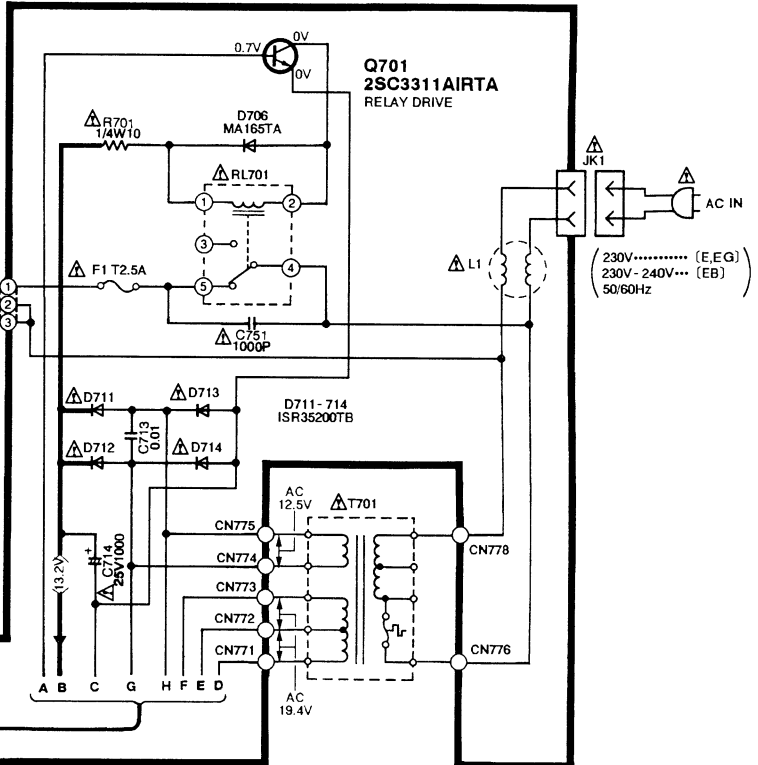


F LED(Rch) CIRCUIT
(P.C.Board: on page 22)

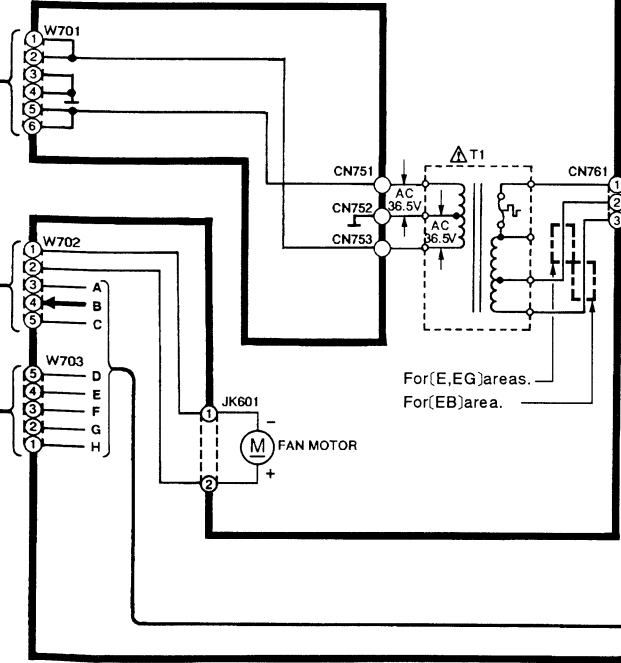


G LED(Lch) CIRCUIT
(P.C.Board: on page 22)

H POWER SUPPLY CIRCUIT
(P.C.Board: on page 19)



I POWER TRANSFORMER CIRCUIT
(P.C.Board: on page 19)

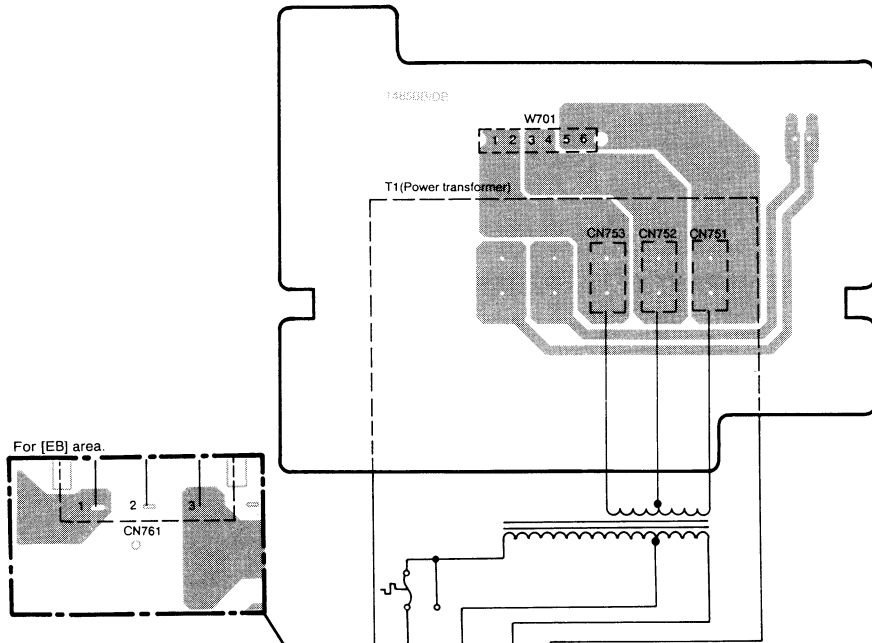


— : Positive Voltage Line - - - - - : Negative Voltage Line — : Source Signal Line

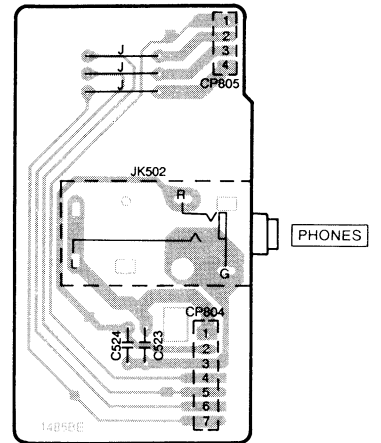
Printed Circuit Board Diagram

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

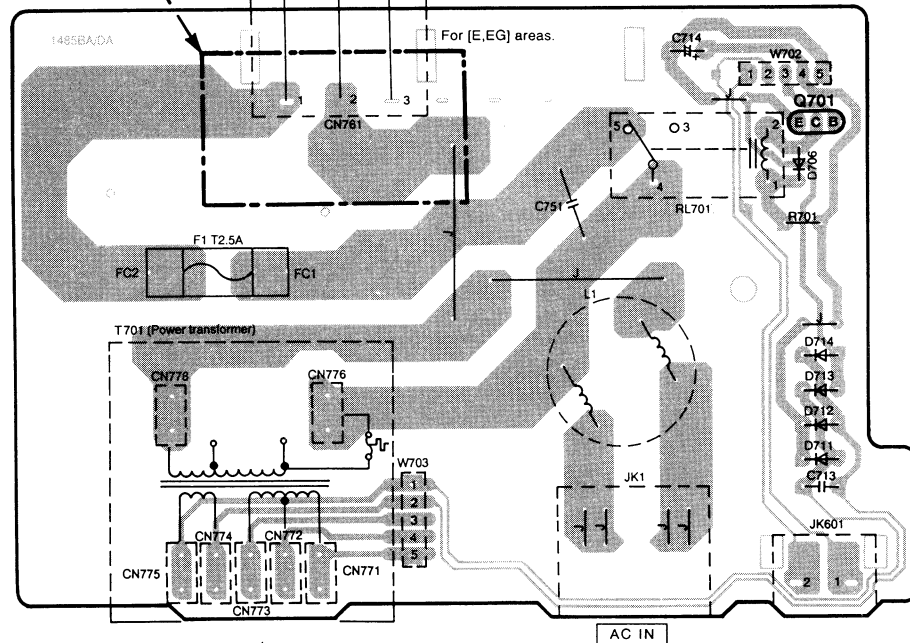
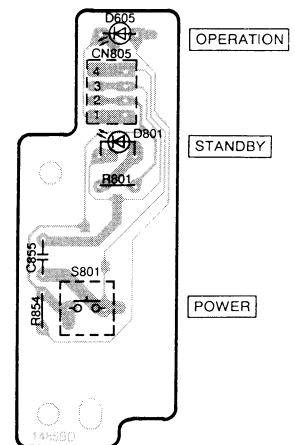
I POWER TRANSFORMER P.C.B. (REP2154B-1S...[E,EG] / REP2154D-1S...[EB])



C HEADPHONES JACK P.C.B. (REP2154B-2S)

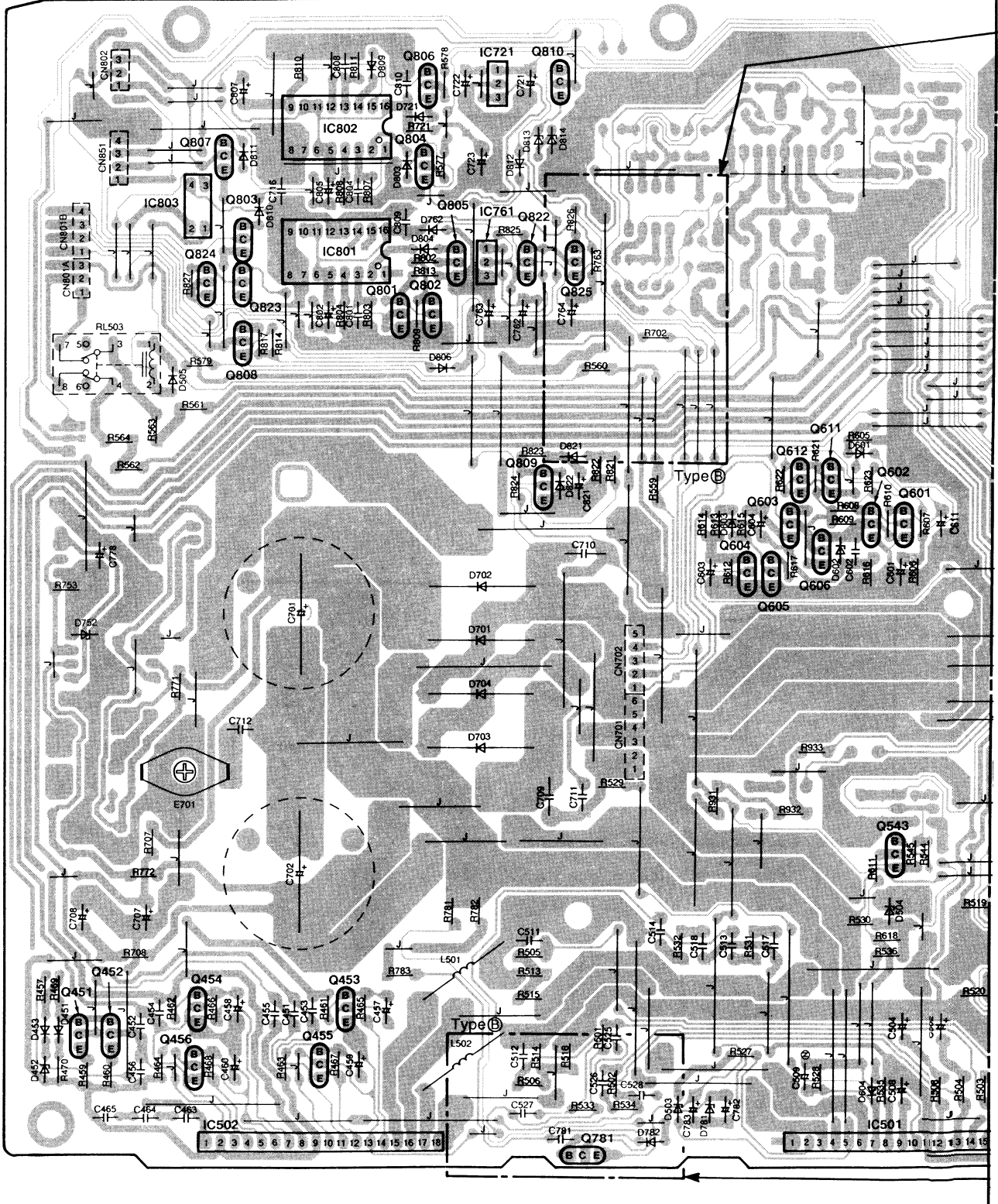


D POWER SWITCH P.C.B. (REP2154B-2S)

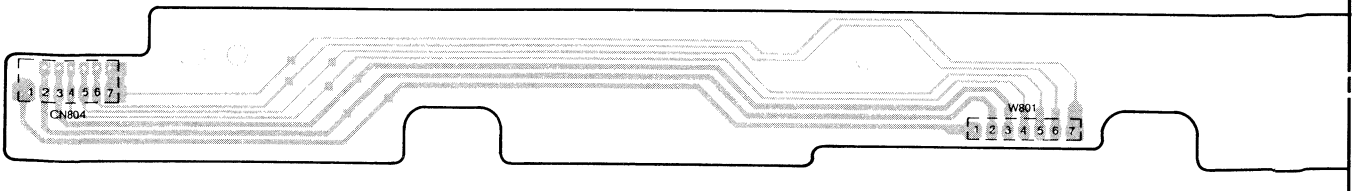


H POWER SUPPLY P.C.B. (REP2154B-1S...[E,EG] / REP2154D-1S...[EB]) (230V...[E,EG] / 230V-240V...[EB] / 50/60Hz)

A MAIN P.C.B. (REP2153B-M...[E,EG]) [There are two kinds of Type(A),(B)in the Main P.C.B.]
 (REP2153E-M...[EB])



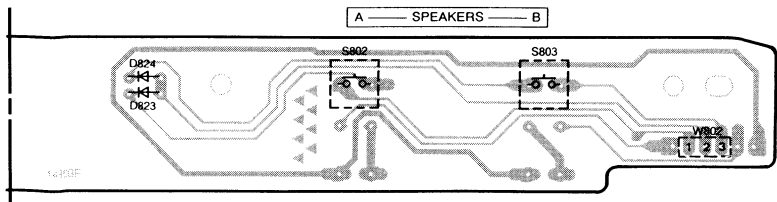
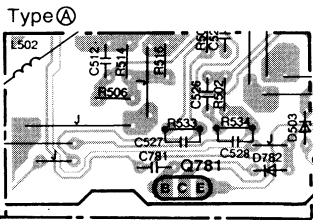
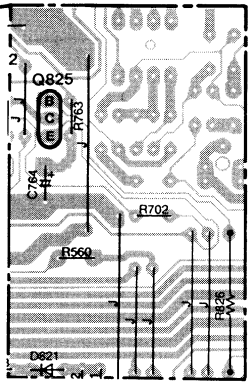
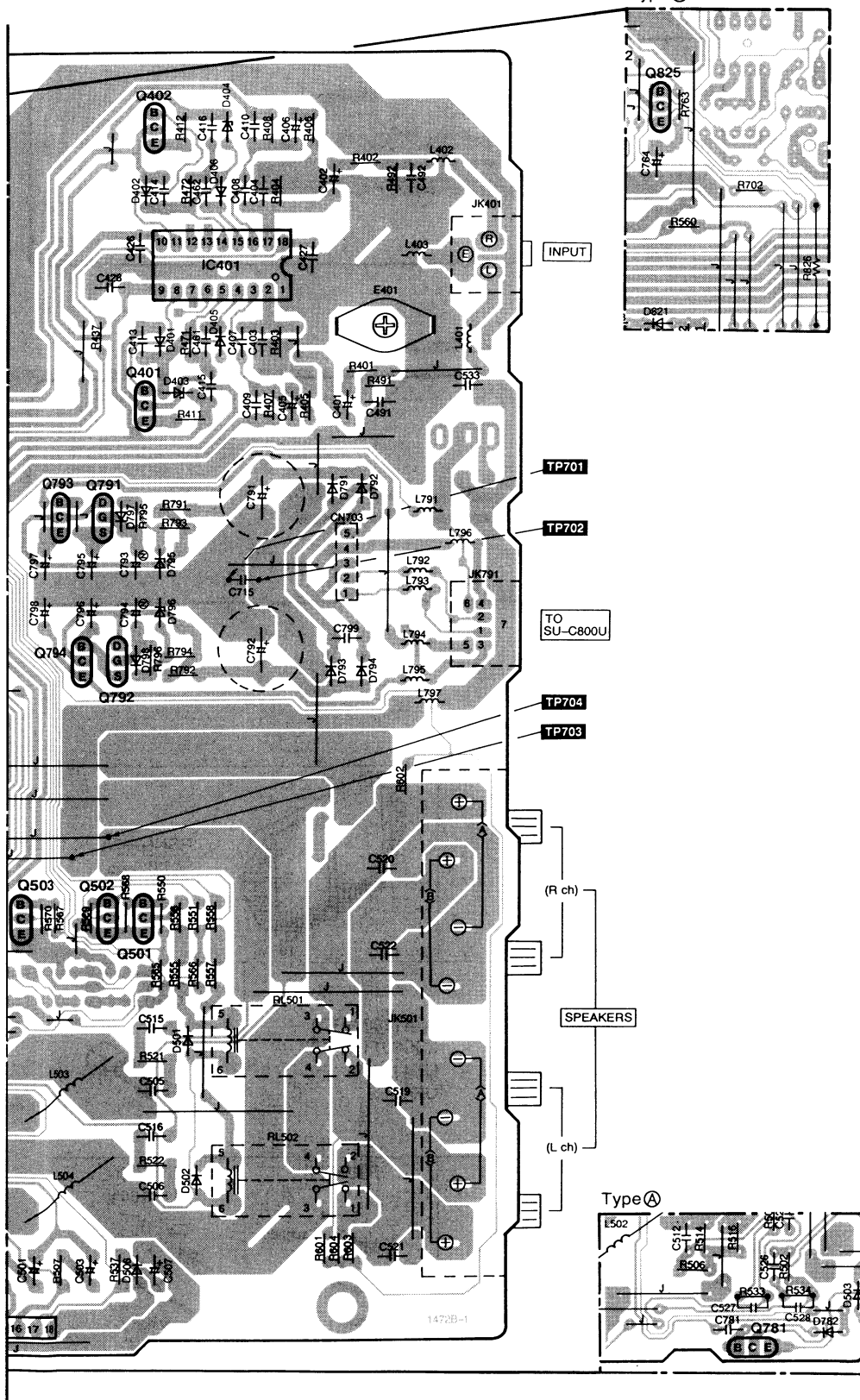
B SP. SWITCH P.C.B. (REP2154B-2S)



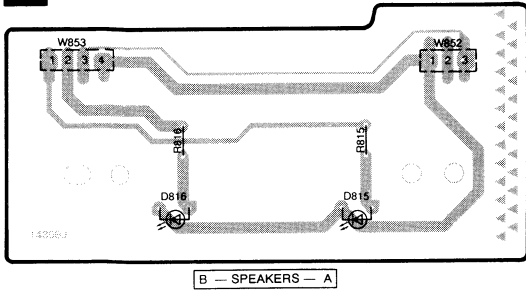
Notes:

Type (B) is different from Type (A) in part of the foil patterns and the parts.
Repair the unit with attention to the differences.

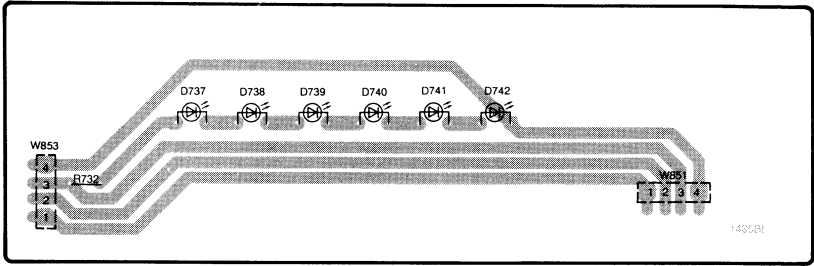
Type (A)



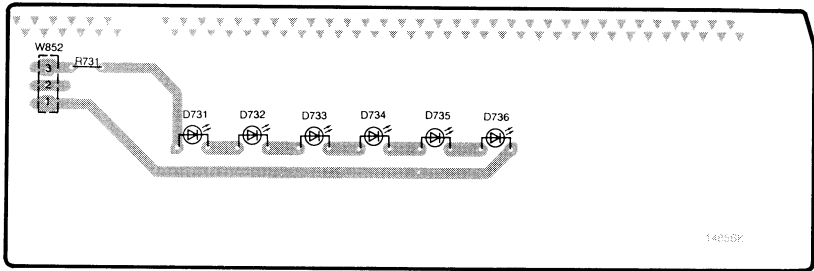
E LED (SP) P.C.B. (REP2154B-2S)

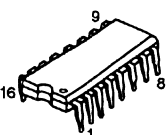
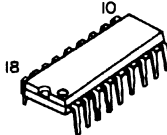
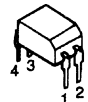
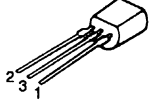
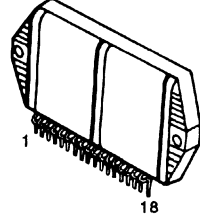
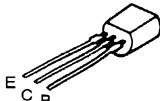
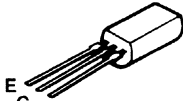
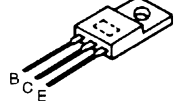

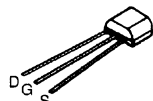
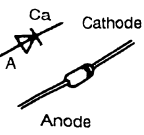
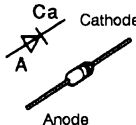
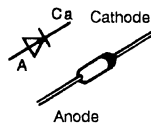
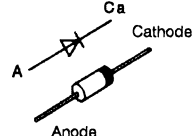
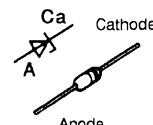
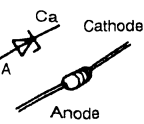
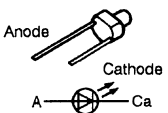


F LED (Rch) P.C.B. (REP2154B-2S)

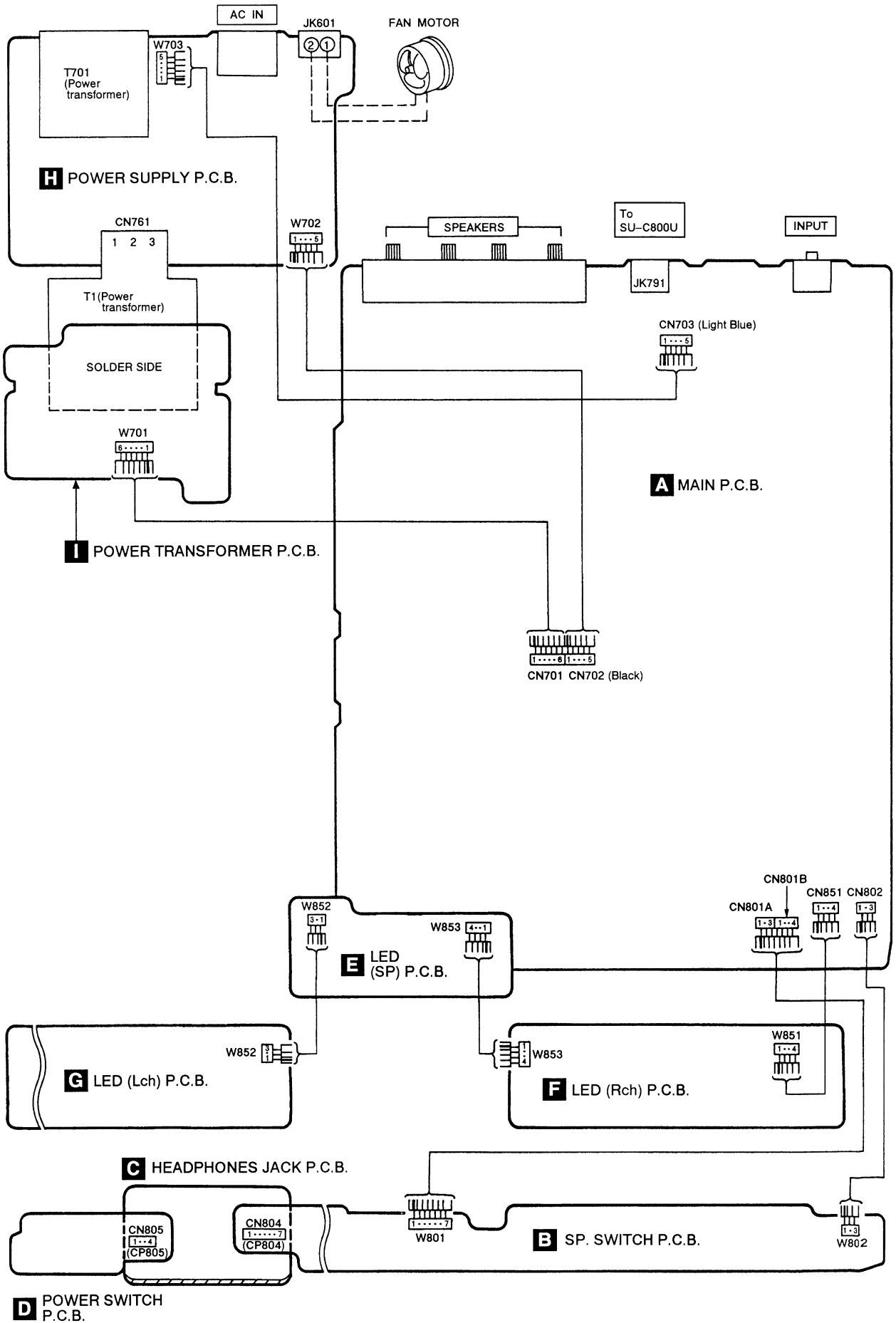


G LED (Lch) P.C.B. (REP2154B-2S)

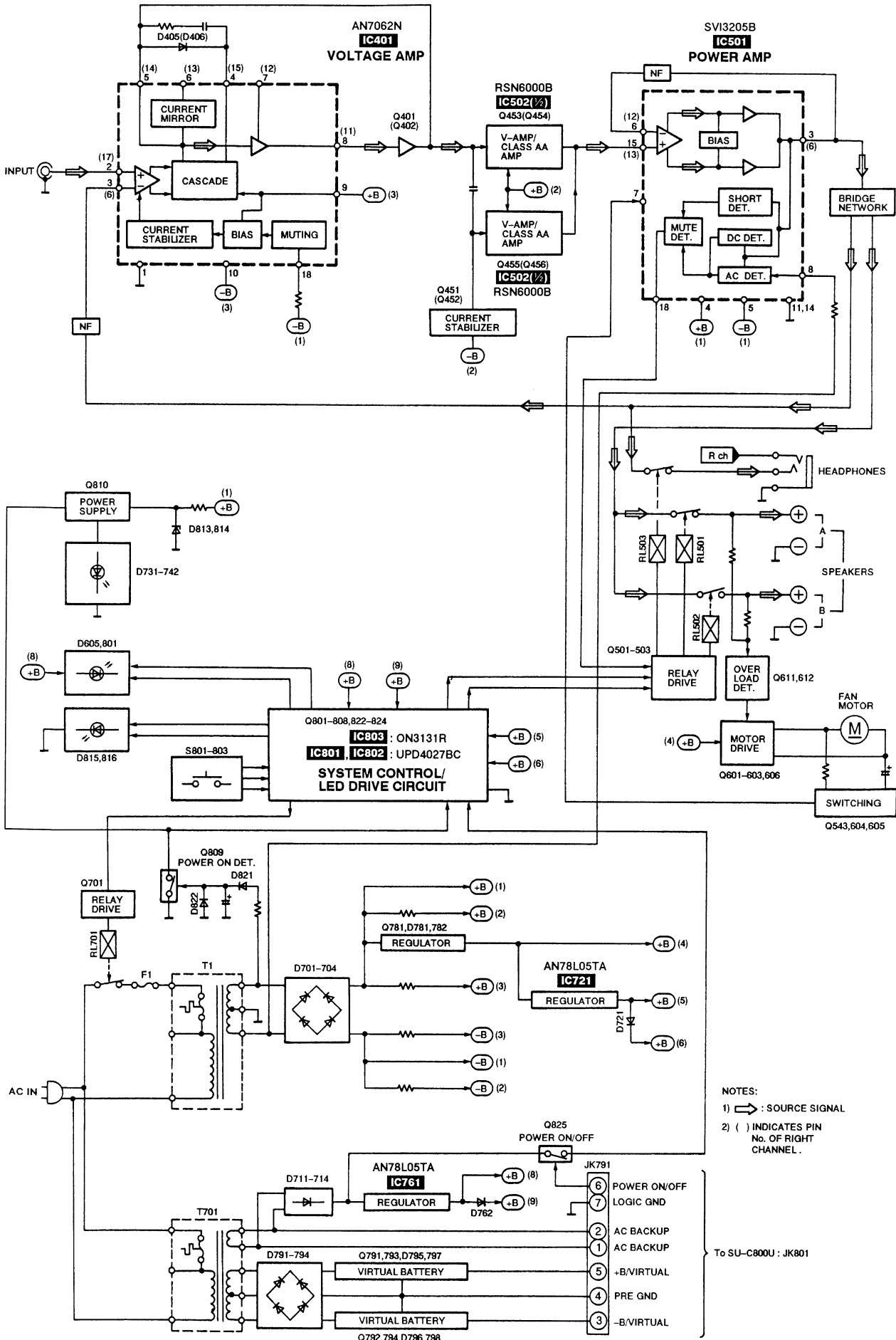


<p>UPD4027BC</p> 	<p>AN7062N</p> 	<p>ON3131R</p> 	<p>AN78L05TA</p> 	 <p>RSN6000A SVI3205B</p>
<p>2SA992EFPTA 2SA1123RSTTA 2SC2631RSTTA</p> 	<p>2SA1534RTA 2SC3940AQSTA</p> 	<p>2SD2374PQAU</p> 	 <p>2SA1309AIRTA 2SC3311AIRTA UN4111 UN4215</p>	<p>2SJ105GRYTA 2SK330GRYTA</p> 
 <p>MA165 MA167 MA29WA</p>	<p>1SS291TA</p> 	<p>1SR35200TB</p> 	<p>P300DLF</p> 	<p>MA4140M MA4160M</p> 
 <p>MA4036MTA MA4056MTA MA4068L MA4082MTA</p>	<p>SLR-305VC SLR-305DC</p> 			

■ Wiring Connection Diagram



Block Diagram



NOTES:
 1) \Rightarrow : SOURCE SIGNAL
 2) () INDICATES PIN No. OF RIGHT CHANNEL.

To SU-C800U : JK801

■ 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 manufacture'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.

*<VRD>: indicates parts that are supplied by Video Recorder Division.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)		D453	MA29WA	DIODE	
IC401	AN7062N	IC, VOLTAGE AMP.		D501, 502	MA165	DIODE	
IC501	SV13205B	IC, POWER AMP.	Δ	D503, 504	MA4160M	DIODE	Δ
IC502	RSN6000A	IC, V-AMP		D505	MA165	DIODE	
IC721	AN78L05TA	IC, REGULATOR	Δ	D506	1SS291TA	DIODE	
IC761	AN78L05TA	IC, REGULATOR	Δ	D601	MA165	DIODE	
IC801, 802	UPD4027BC	IC, J-K FLIP-FLOP		D602	MA4068L	DIODE	
IC803	ON3131R	IC, OPTO-ISOLATOR		D603, 604	MA165	DIODE	
		TRANSISTOR(S)		D605	SLR-305VC	LED	
Q401, 402	2SA1123RSTTA	TRANSISTOR		D701-704	P300DLF	DIODE	Δ
Q451, 452	2SC2631RSTTA	TRANSISTOR		D706	MA165	DIODE	
Q453, 454	2SC3311AIRTA	TRANSISTOR		D711-714	1SR35200TB	DIODE	Δ
Q455, 456	2SA1309AIRTA	TRANSISTOR		D721	MA165	DIODE	
Q501-503	2SA992EFPTA	TRANSISTOR		D731-742	SLR-305DC	LED	
Q543	2SA1309AIRTA	TRANSISTOR		D752	MA4160M	DIODE	Δ
Q601	2SC3311AIRTA	TRANSISTOR		D762	MA165	DIODE	
Q602	2SC3311AIRTA	TRANSISTOR		D781	MA4160M	DIODE	Δ
Q603	2SC3940AQSTA	TRANSISTOR		D782	MA165	DIODE	
Q604-606	2SC3311AIRTA	TRANSISTOR		D791-794	1SR35200TB	DIODE	Δ
Q611, 612	2SC3311AIRTA	TRANSISTOR		D795, 796	MA4140M	DIODE	Δ
Q701	2SC3311AIRTA	TRANSISTOR		D797, 798	MA165	DIODE	
Q781	2SD2374PQAU	TRANSISTOR	Δ	D801	SLR-305VC	LED	
Q791	2SK330GRYTA	TRANSISTOR	Δ	D803, 804	MA165	DIODE	
Q792	2SJ105GRYTA	TRANSISTOR	Δ	D806	MA165	DIODE	
Q793	2SC3940AQSTA	TRANSISTOR	Δ	D809-812	MA165	DIODE	
Q794	2SA1534RRTA	TRANSISTOR	Δ	D813, 814	MA4082MTA	DIODE	Δ
Q801, 802	UN4215	TRANSISTOR		D815, 816	SLR-305VC	LED	
Q803-807	UN4111	TRANSISTOR		D821	MA167	DIODE	Δ
Q808	2SA1309AIRTA	TRANSISTOR		D822-824	MA165	DIODE	
Q809	2SC3311AIRTA	TRANSISTOR				COIL(S)	
Q810	UN4111	TRANSISTOR		L1	SLQ650MH49	COIL	Δ
Q822, 823	UN4215	TRANSISTOR		L401, 402	ELEXT100KA9	COIL	
Q824	2SC3311AIRTA	TRANSISTOR		L403	BLO2RN1R62T2	COIL	
Q825	UN4111	TRANSISTOR		L501-504	SLQY18G-10	COIL	
		DIODE(S)		L791-797	ELEXT1R0KA9	COIL	
D401, 402	MA167	DIODE				TRANSFORMER(S)	
D403, 404	MA4036MTA	DIODE		T1	RTP1P5B006-W	POWER TRANSFORMER	Δ
D405, 406	MA165	DIODE		T701	RTP1J5B001-W	POWER TRANSFORMER	Δ
D451	MA165	DIODE				FUSE(S)	
D452	MA4056MTA	DIODE		F1	XBA2C25TB0	FUSE, 250V, 2.5A	Δ

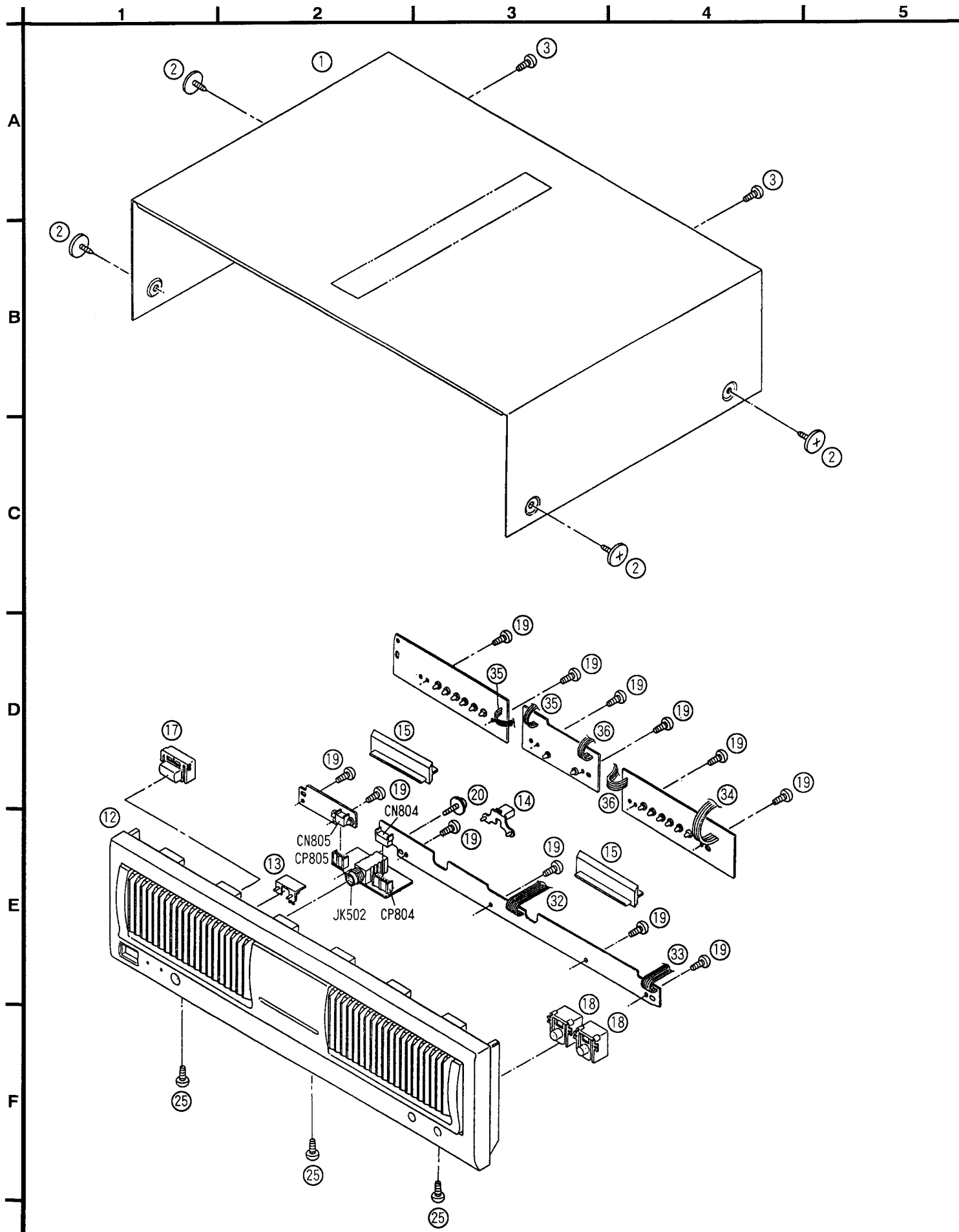
SE-A800S

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
C778	ECA1EPX470TB	25V 47U	C795-798	ECA1EPXS470B	25V 47U	C805	RCE1CKA100BG	16V 10U
C781	ECBT1H102KB5	50V 1000P	C799	ECKR2H103ZU	500V 0.01U	C807	RCE1CKA100BG	16V 10U
C782, 783	ECEA1EKA100B	25V 10U	C801	ECBT1H104ZF5	50V 0.1U	C808-810	ECBT1H104ZF5	50V 0.1U
C791, 792△	ECA1VPT102ZE	35V 1000P	C802	RCE1CKA100BG	16V 10U	C821 △	ECEA1EKA100B	25V 10U
C793, 794	ECEA1HBZ4R7B	50V 4.7U	C804	ECBT1H104ZF5	50V 0.1U	C855	ECBT1C103NS5	16V 0.01U

Note: The reference number SA represent the grease and tool used for this unit.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS		34	RWJ1804130KX	FLAT CABLE (4P) (W851)	
				35	RWJ1803100KX	FLAT CABLE (3P) (W852)	
				36	RWJ1804100KX	FLAT CABLE (4P) (W853)	
1	RKMD219F-K	CABINET		38	RMG0332-K	RUBBER	
2	SNE2129-1	SCREW				PACKING MATERIALS	
3	XTBS3+8JFZ1	SCREW					
4	REMO020-1	FAN ASS'Y		P1	RPG2622	PACKING CASE	(E, EG)
4-1	MDN-4RB4MRC	FAN MOTOR		P1	RPG2623	PACKING CASE	(EB)
4-2	RMQ0208-K	FAN MOTOR COVER		P2	RPQ0573	SPACER	
4-3	RMQ0209-K	FAN CASE		P3	RPQ0553	SPACER	
4-4	RMQ0212-K	FAN TERMINAL		P4	RPG2618	PACKING CASE	
4-5	SHE232-1	FAN		P5	RPG2617	PACKING CASE (SU-C800U)	
4-6	SUS271	SPRING		P6	RPN0752	PAD	
5	RGR0227A-A	REAR PANEL	(E, EG)	P7	RPN0917	PAD (SU-C800U)	
5	RGR0227B-A1	REAR PANEL	(EB)	P8	SPP730	PROTECTION COVER	
6	RKA0053-A	FOOT		P9	SPP756	PROTECTION COVER (SU-C800U)	
7	RKQ0089	P. C. B. SUPPORT		P10	RPQ0164	PAD	
8	RMCO158	TRANSISTOR HOLDER		P11	RPF0139	PROTECTION COVER	
9	RMK0200-3	BOTTOM SHASSIS		P12	RPH0032	MIRROR SHEET	(EB)
10	RMNO217	HOLDER				ACCESSORIES	
11	RMZ0354	COVER		A1	RAK-SU180WH	REMOTE CONTROL TRANSMITTER	
12	RFKGEA800SEK	FRONT PANEL ASS'Y		A1-1	RKK0057-K	BATTERY COVER	
13	RGL0301-Q	PANEL LIGHT A		A2	RQA0013	WARRANTY CARD	
14	RGL0302-Q	PANEL LIGHT B		A3	RQCB0169	SERVICE CENTER LIST	
15	RGL0303-Q	PANEL LIGHT C		A4	RFKSEA800SEK	INSTRUCTION MANUAL	(E)
16	XTW3+15T	SCREW		A4	RQT3100-E	INSTRUCTION MANUAL	(EG)
17	RGU1270-K	BUTTON, POWER		A4	RQT3101-B	INSTRUCTION MANUAL	(EB)
18	RGU1271-K	BUTTON, SPEAKER		A5	RJA0019-2K	AC POWER SUPPLY CORD	△(SF) (E, EG)
19	RHD26017	SCREW		A5	VJA0733	AC POWER SUPPLY CORD	△(SF) <VRD> (EB)
20	RHD26018	SCREW		A6	SJP2276	PIN CORD	
22	SHR8006	SPACER		A7	RJL6D001B10	AMP. CONNECTION CABLE	
23	SHR9112	SPACER				GREASE OR JIG/TOOL	
24	SHR9814	CLAMPER		SA1	RFKX0002	COMPOUND GREASE	
25	XTBS3+8JFZ1	SCREW					
26	XTB3+20JFZ	SCREW					
27	XTB3+6G	SCREW					
28	XTB3+8JFZ	SCREW					
29	RWJ3906440QQ	FLAT CABLE (6P) (W701)					
30	RWJ1805480XX	FLAT CABLE (5P) (W702)					
31	RWJ3905390QQ	FLAT CABLE (5P) (W703)					
32	RWJ1807220KX	FLAT CABLE (7P) (W801)					
33	RWJ1803090KX	FLAT CABLE (3P) (W802)					

Cabinet Parts Location



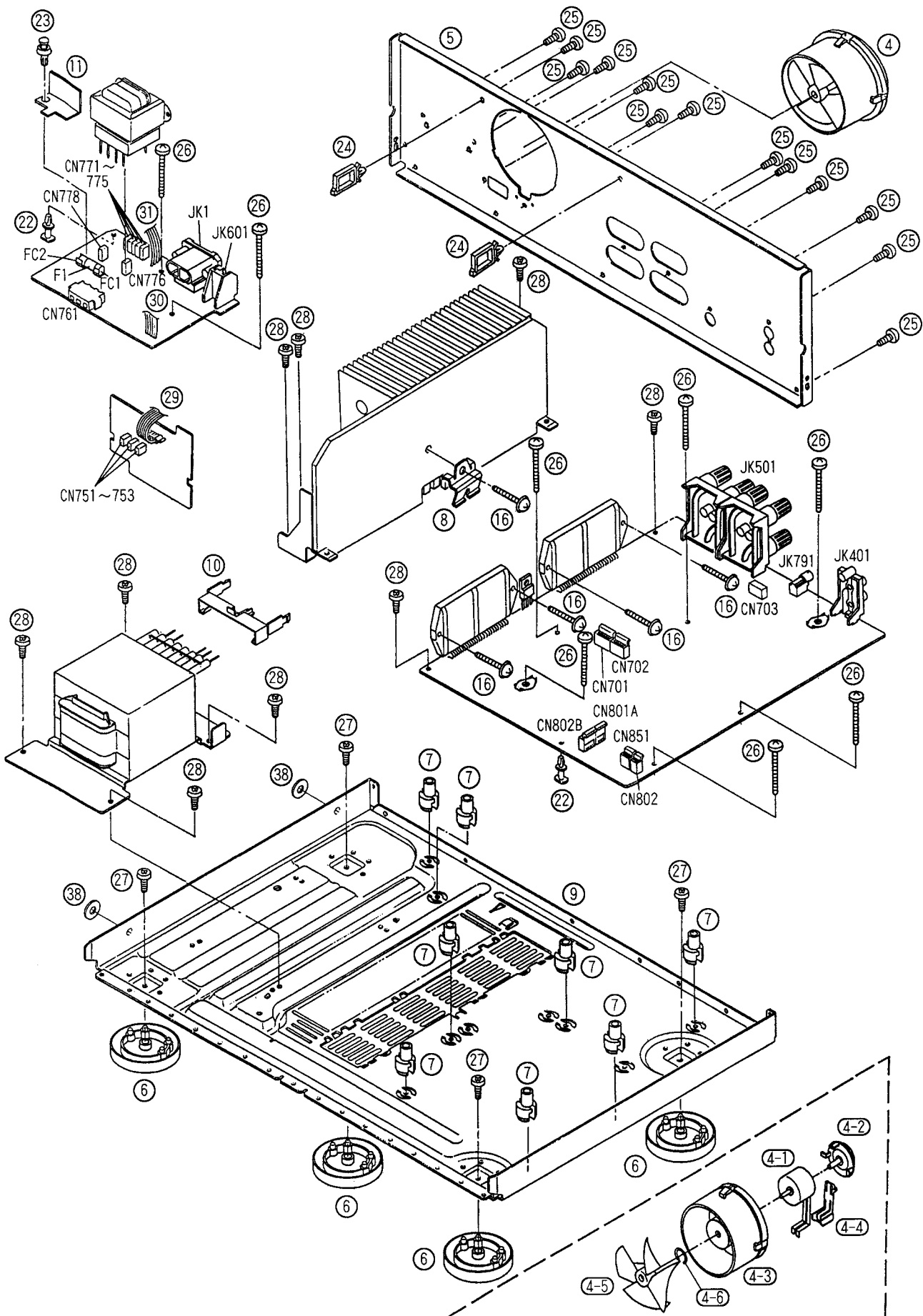
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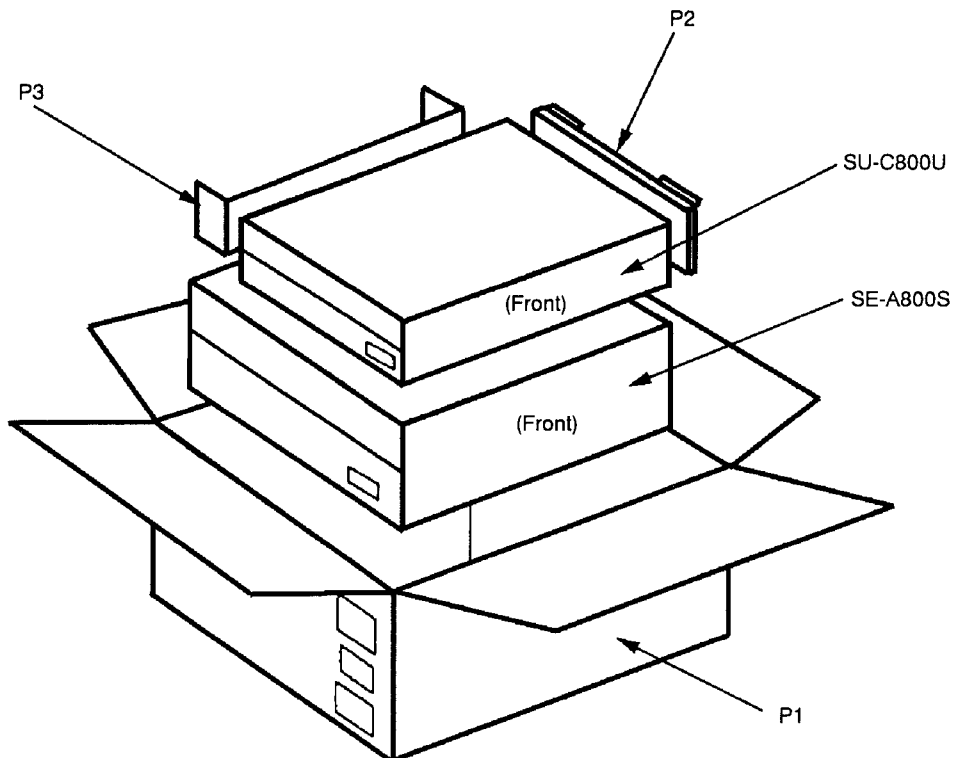
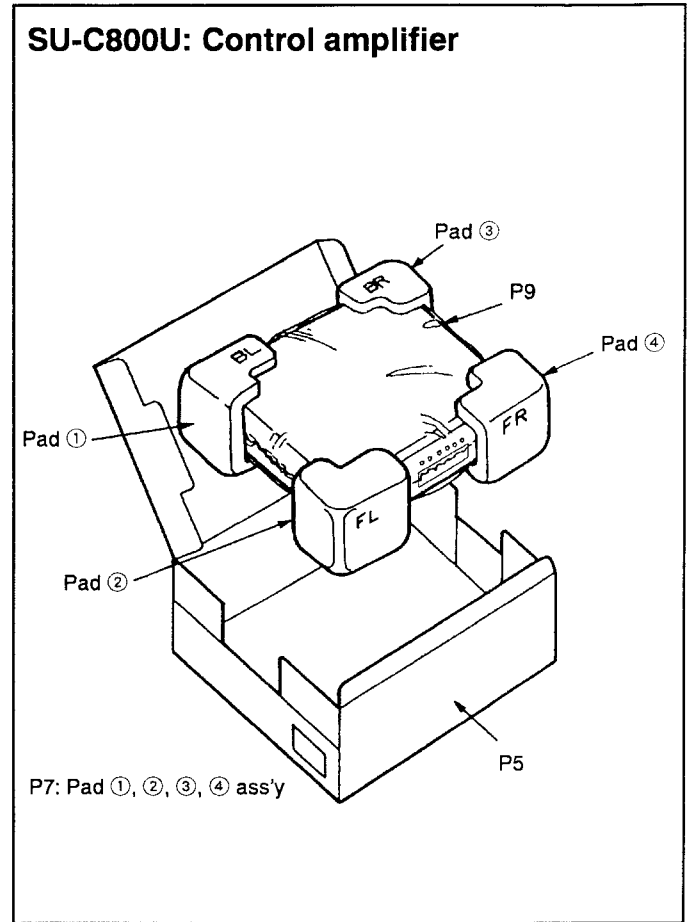
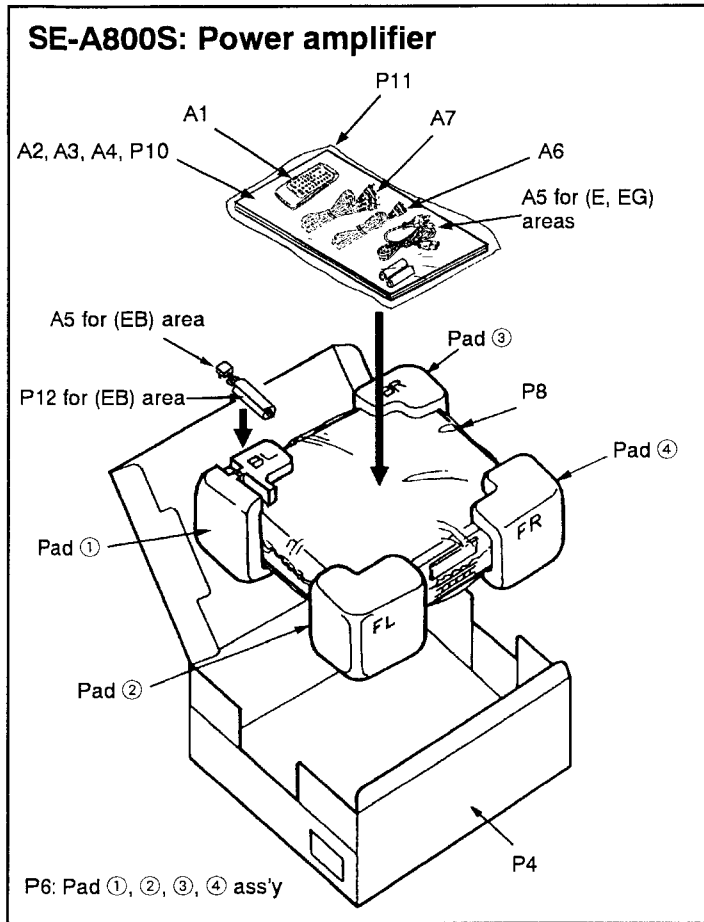
8

9

10



■ Packaging





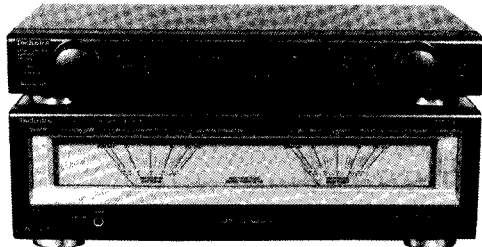
Service Manual

Control Amplifier

Amplifier

System: SU-A900D

SU-C800U



SE-A900S

Remote Control Transmitter



Colour

(K) : Black

Areas

Suffix for Model No.	Area	Colour
(E)	Europe, Asia, Latin America, Middle East, Africa and Oceania	(K)

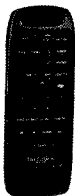
System: SU-A800D

SU-C800U



SE-A800S

Remote Control Transmitter



System: SU-A900D

Control amplifier	SU-C800U
Power amplifier	SE-A900S

System: SU-A800D

Control amplifier	SU-C800U
Power amplifier	SE-A800S

Because of unique interconnecting cables, when a component requires service, send or bring in the entire system.

Specifications (DIN 45 500)

Total harmonic distortion Vol. Max 20 Hz – 20 kHz 0.01 %

Input sensitivity/impedance

PHONO 2.5 mV/47 kΩ

TUNER, CD, AUX, TAPE 1, TAPE 2/DCC 200 mV/27 kΩ

Phono maximum input voltage (1 kHz, RMS) 150 mV

S/N

PHONO 76 dB (77 dB, IHF '66)

TUNER, CD, AUX, TAPE 1, TAPE 2/DCC 90 dB (97 dB, IHF '66)

Frequency response

PHONO RIAA standard curve ±1 dB (30 Hz – 15 kHz)

TUNER, CD, AUX, TAPE 1, TAPE 2/DCC

3 Hz – 80 kHz (+0, – 3 dB)

+0 dB, – 0.3 dB (20 Hz – 20 kHz)

Tone controls

BASS 50 Hz, +10 dB, –10 dB

TREBLE 20 kHz, +10 dB, –10 dB

Output voltage

TAPE 1, TAPE 2/DCC REC OUT 200 mV

PRE OUT 1 V

Channel balance (AUX, 250 Hz – 6.3 kHz) ±1 dB

Channel separation (AUX, 1 kHz) 50 dB

■ GENERAL

Dimensions (W × H × D) 430 × 89.3 × 307 mm

Weight 2.7 kg

Notes:

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

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Technics®

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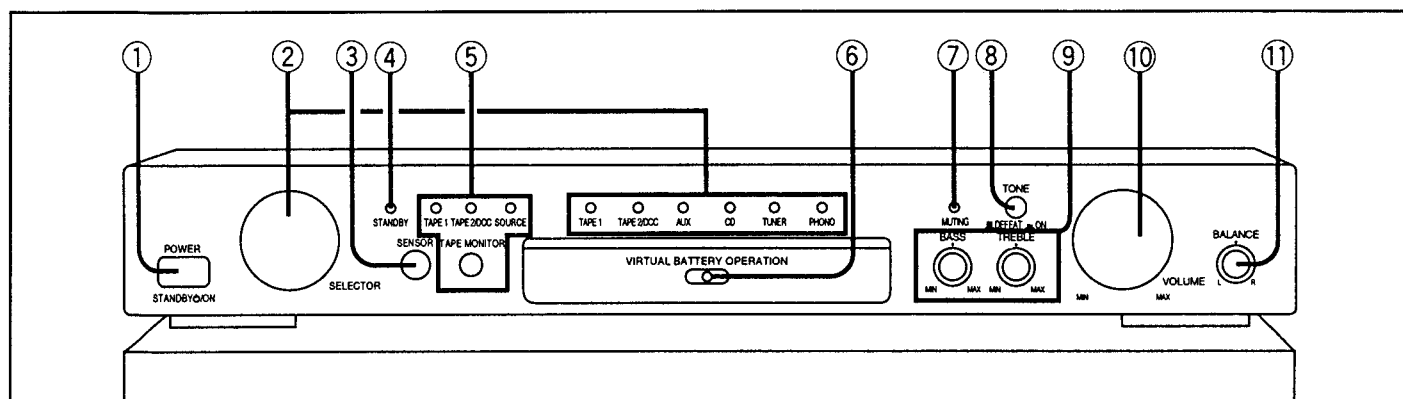
■ Contents

	Page		Page
Front Panel Controls	2	Printed Circuit Board Diagram	10~12
Operation Check and Main Component Replacement Procedures	3	Wiring Connection Diagram	12
To Supply Power Source	4	Block Diagram	13
Function of IC Terminals	5	Replacement Parts List	14~17
Schematic Diagram	5~9	Cabinet Parts Location	16

NOTE:

Refer to the service manual for Model No. SE-A900S (ORDER No. AD9506164C8) or SE-A800S (ORDER No. AD9506165C2) for information on "Accessories", "Connections", "Operations" and "Packaging".

■ Front Panel Controls



① Power "STANDBY" / ON switch (POWER, STANDBY / 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.

If the power amplifier is turned on while the control amplifier is on, this switch can then be used to turn both amplifiers on or to standby mode simultaneously.

② Input selector/indicators (SELECTOR)

③ Remote control signal sensor (SENSOR)

④ "STANDBY" indicator (STANDBY)

When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.

⑤ Tape-monitor button/indicators (TAPE MONITOR)

⑥ "VIRTUAL BATTERY OPERATION" indicator

This will illuminate to indicate that the virtual battery (a circuit which removes the noise contained in the power supply while playing a sound input source) is functioning.

⑦ Muting indicator (MUTING)

⑧ Tone control button (TONE)

⑨ Tone controls (BASS, TREBLE)

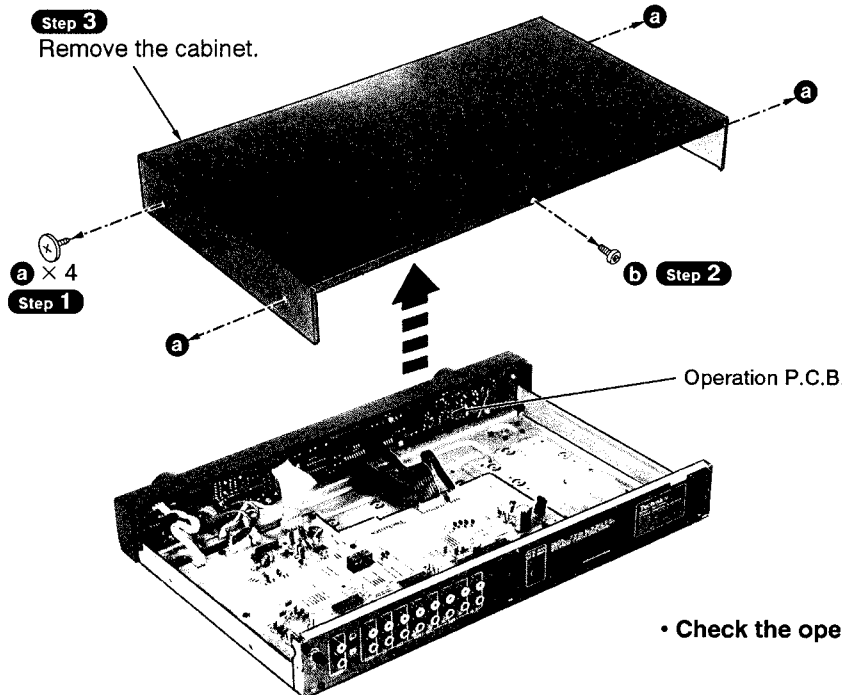
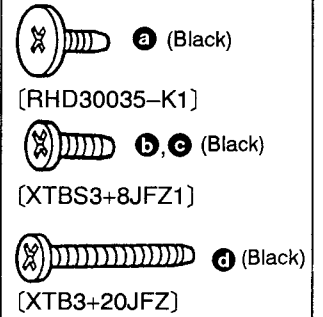
⑩ Volume control (VOLUME)

⑪ Balance control (BALANCE)

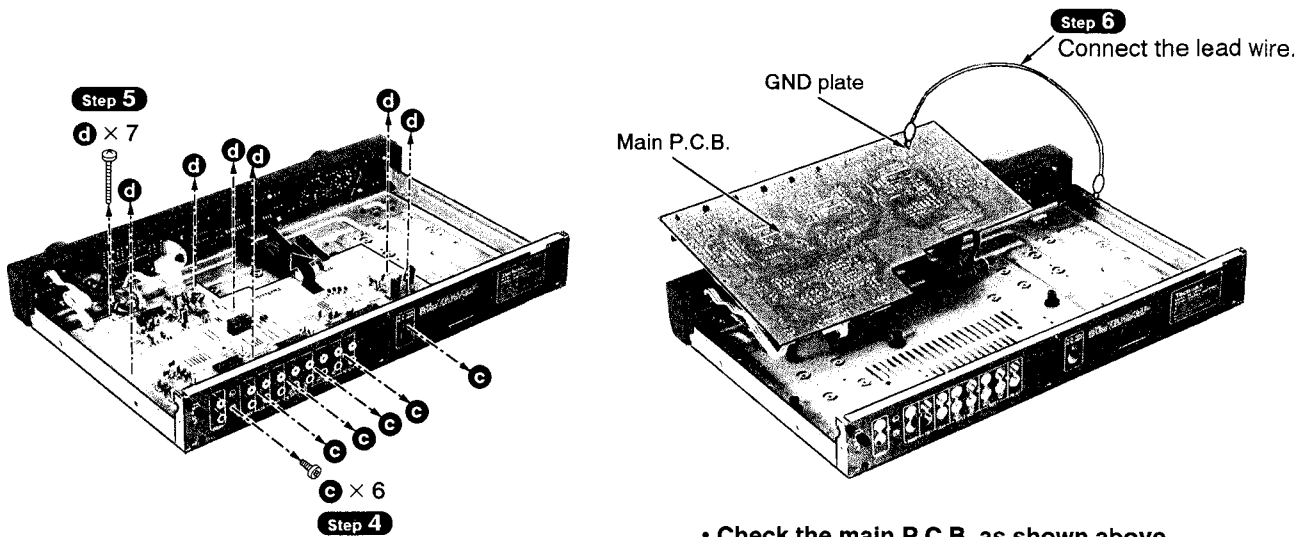
■ Operation Check and Main Component Replacement Procedures

- NOTE**
1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
 2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.
 3. Illustrated screws are equivalent to actual size.

1. Checking for the operation P.C.B. and main P.C.B.



• Check the operation P.C.B. this condition.



• Check the main P.C.B. as shown above.

■ To Supply Power Source

This unit SU-C800U is designed to operate on power supplied from the Power Amplifier SE-A900S or SE-A800S. When operating the unit SU-C800U alone for testing and servicing, without having power supplied from the Power Amplifier SE-A900S or SE-A800S, use the following method.

Power Supply to Main Circuit

1. Apply 11 V AC power to the section between the point **TP1** and the point **TP2**.
2. Connect the DC +12 V to +15 V (more than 0.1 A) to the point **TP5**, and the GND terminal to the point **TP4** using the DC power supply.
2. Connect the DC -12 V to -15 V (more than 0.1 A) to the point **TP3**, and the GND terminal to the point **TP4** using the DC power supply.

Operation Check

1. Input a signal (1 kHz, 100 mV) to the each line-in terminal.
3. Connect the oscilloscope or the speaker with the built-in amplifier to the PRE OUT terminals and check if the signals are outputting from this unit.

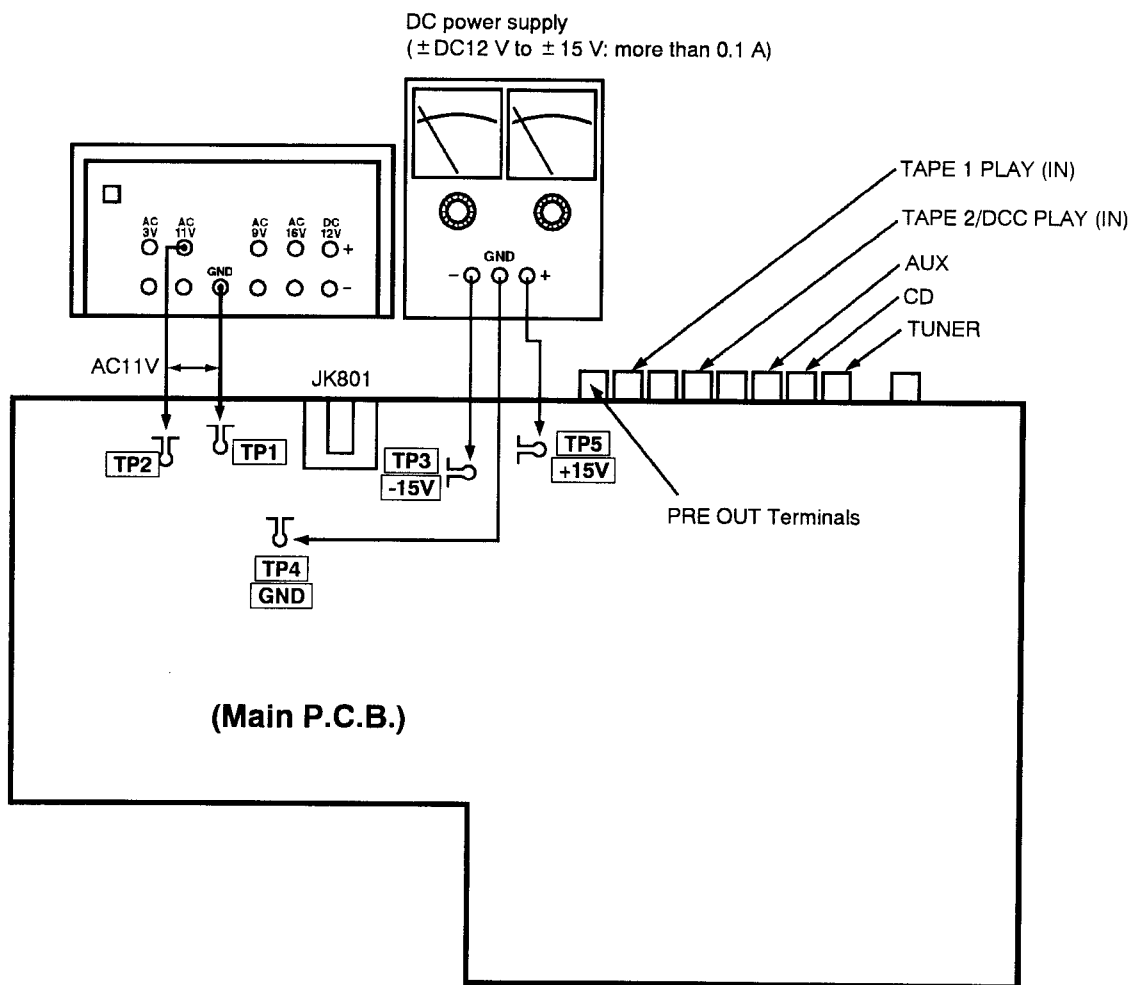


Fig. 1

Function of IC Terminals

● IC701 (M37470M2332S)

Pin No.	Terminal Name	I/O	Function
1	SDATA	O	Data signal output for input select IC (IC201 and IC202)
2	CLOCK	O	Clock signal output for input select IC (IC201 and IC202)
3	STB	O	Strobe signal output for input select IC (IC201 and IC202)
4	SELLED2	O	Input select LED drive signal output
5	SELLED1		
6	SELLED0		
7	VRDOWN	O	Motor drive signal output (Volume down)
8	VRUP	O	Motor drive signal output (Volume up)
9	ASWMUTE	O	Audio signal muting signal output
10	BATLVL1	I	Not used, connect to GND
11	KEYAD	I	Power switch and Tape monitor switch signal
12	RSWAD	I	Input selector switch (S804) signal input
13	VREF	I	Reference voltage input
14	XIN	I	Connect to the ceramic oscillator
15	XOUT	O	
16	GND	—	Connect to GND

Pin No.	Terminal Name	I/O	Function
17	VCC	I	Power supply (+5V)
18	RESET	I	System reset signal input
19	BACKUP	I	Power failure detect signal input
20	REMCON	I	Remote control signal input
21	BATLVL2	I	Not used, connect to GND
22	CS	I	Chip select signal input (Connect to GND)
23	MUTLED	O	Muting LED (D711) drive signal output
24	SRCELED	O	Source LED (D810) drive signal output
25	TP2MLED	O	Tape 2 LED (D811) drive signal output
26	TP1MLED	O	Tape 1 LED (D812) drive signal output
27	BATFLED	O	Not used, connect to GND
28	BATELED		
29	BATRLY		
30	CHRGRLY		
31	OPTRLY	O	Relay drive signal output
32	PWRRLY	O	Power control signal output

Schematic Diagram





	Page
A MAIN CIRCUIT	6~9
B TONE SWITCH CIRCUIT	7, 8
C VOLUME CIRCUIT	7
D BALANCE VR CIRCUIT	7
E POWER SWITCH CIRCUIT	7
F OPERATION CIRCUIT	7, 8

● This schematic diagram may be modified at any time with the development of new technology.

Notes:

- **S301** : Tone control switch (TONE \blacksquare :DEFEAT, \blacktriangle :ON)
- **S801** : Power "STANDBY ϕ /ON" switch (POWER, STANDBY ϕ /ON)
- **S802** : Tape monitor switch (TAPE MONITOR)
- **S804** : Input select switch (SELECTOR)
- **VR201** : Volume control VR (VOLUME)
- **VR202** : Balance control VR (BALANCE)
- **VR301** : Tone control VR (BASS)
- **VR302** : Tone control VR (TREBLE)
- 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

● Voltage and signal line

-  : Phono Signal (L-ch) Line
-  : Rec Out Signal (L-ch) Line
-  : Positive Voltage Line
-  : Negative Voltage Line

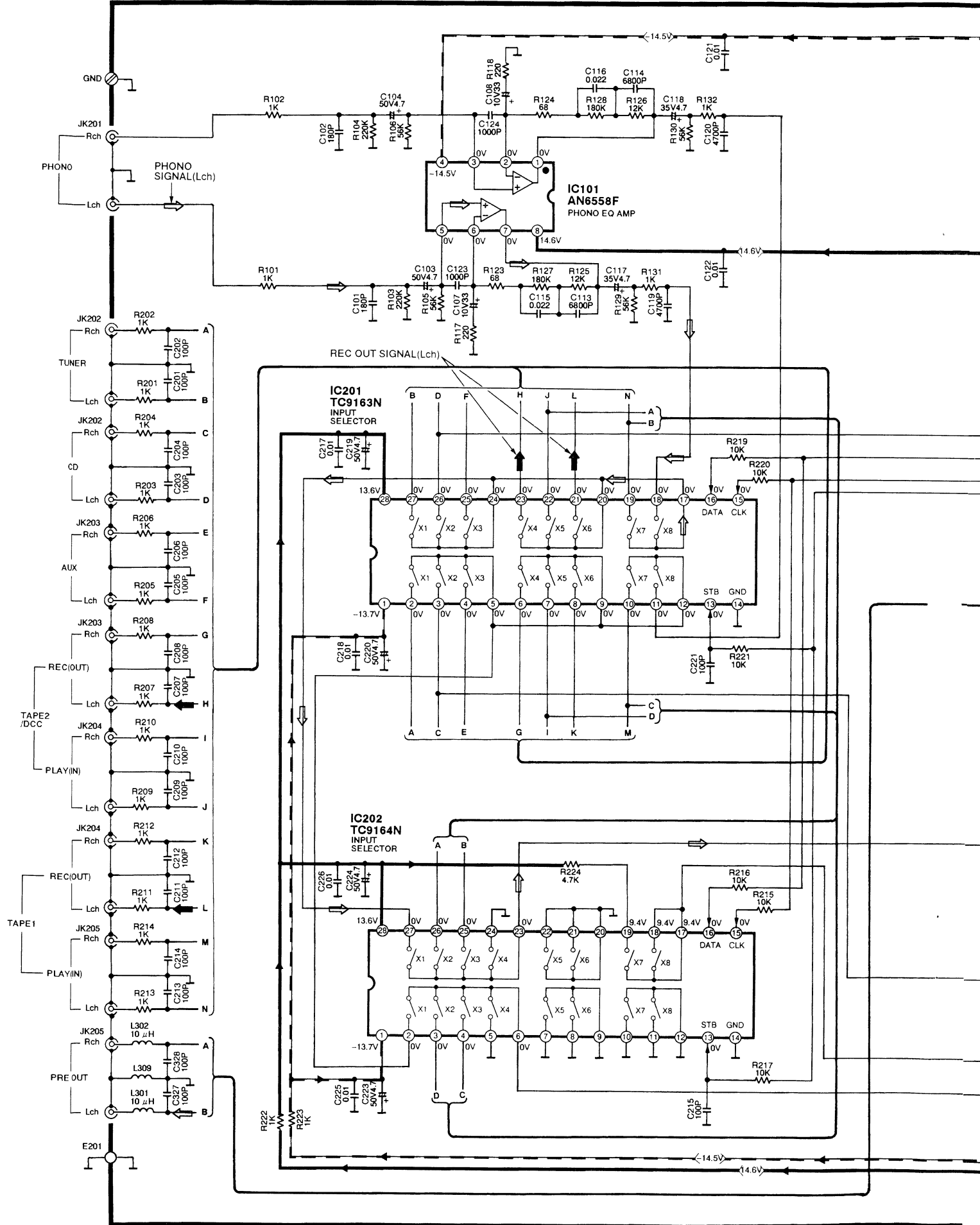
● Important safety notice:

Components identified by \triangle 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.

● Caution!

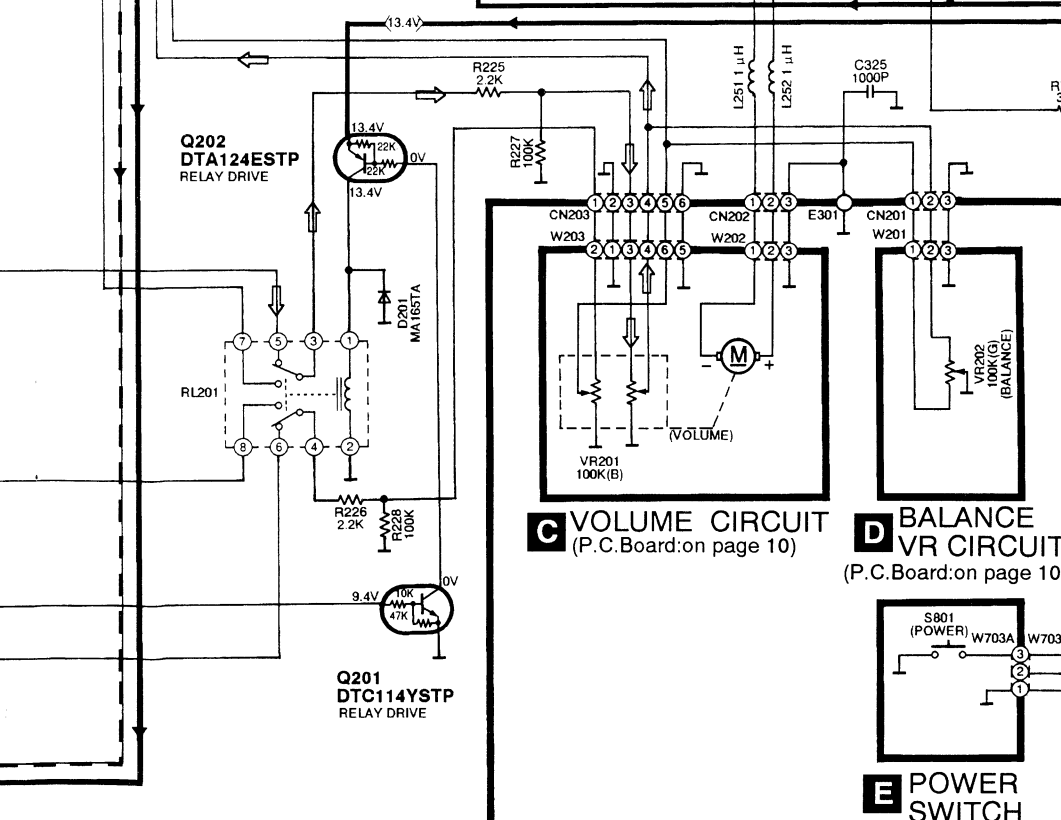
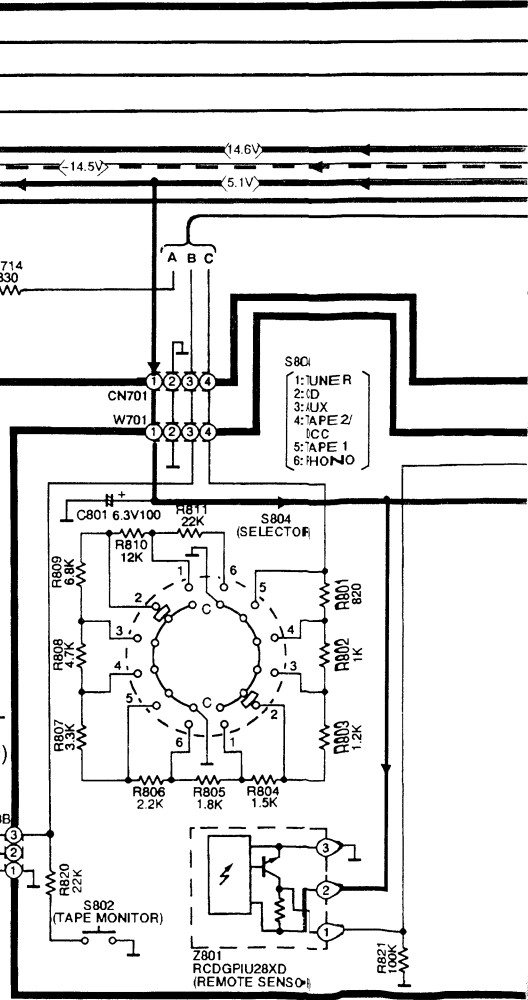
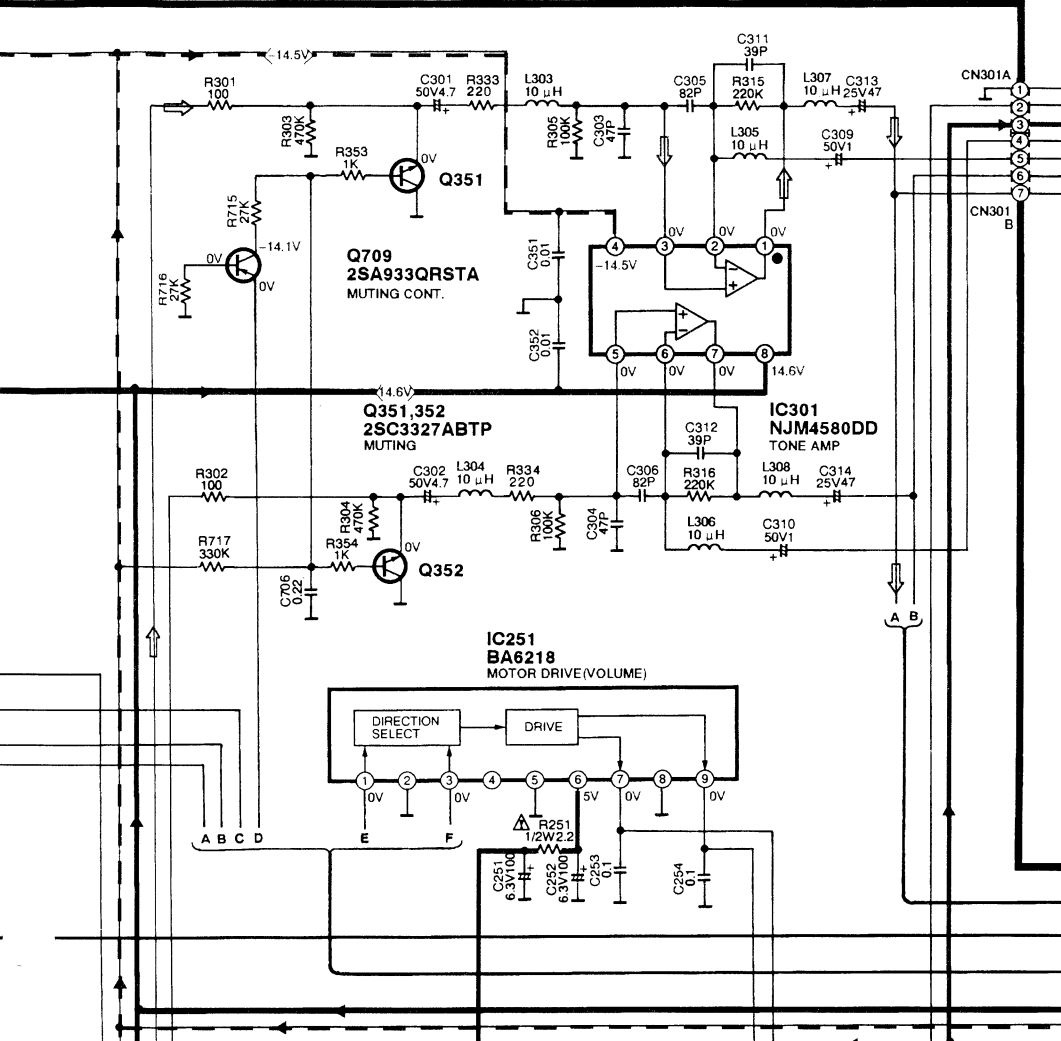
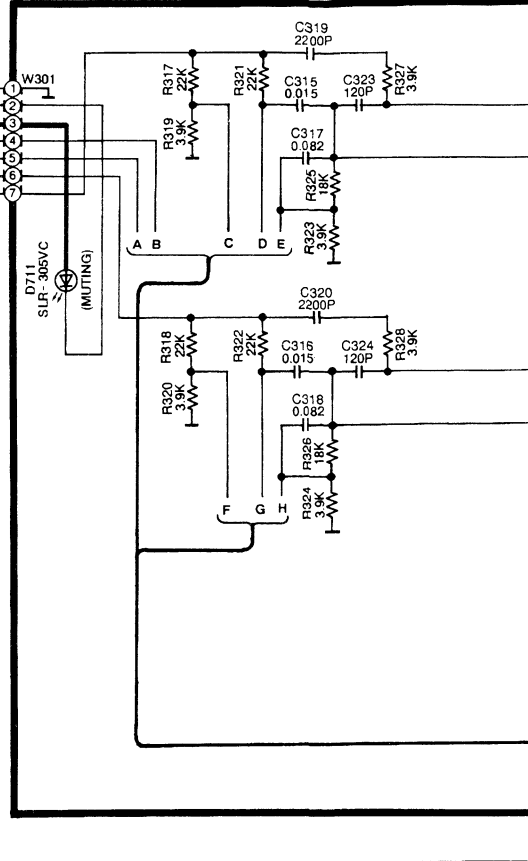
IC and LSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.
Cover the parts boxes made of plastics with aluminum foil.
Ground the soldering iron.
Put a conductive mat on the work table.
Do not touch the legs of IC or LSI with the fingers directly.

A MAIN CIRCUIT
(P.C.Board on page 11)



 : Phono Signal (L-ch) Line
 : Rec Out Signal (L-ch) Line
 : Positive Voltage Line
 : Negative Voltage Line

B TONE SWITCH CIRCUIT
(P.C.Board: on page 10)



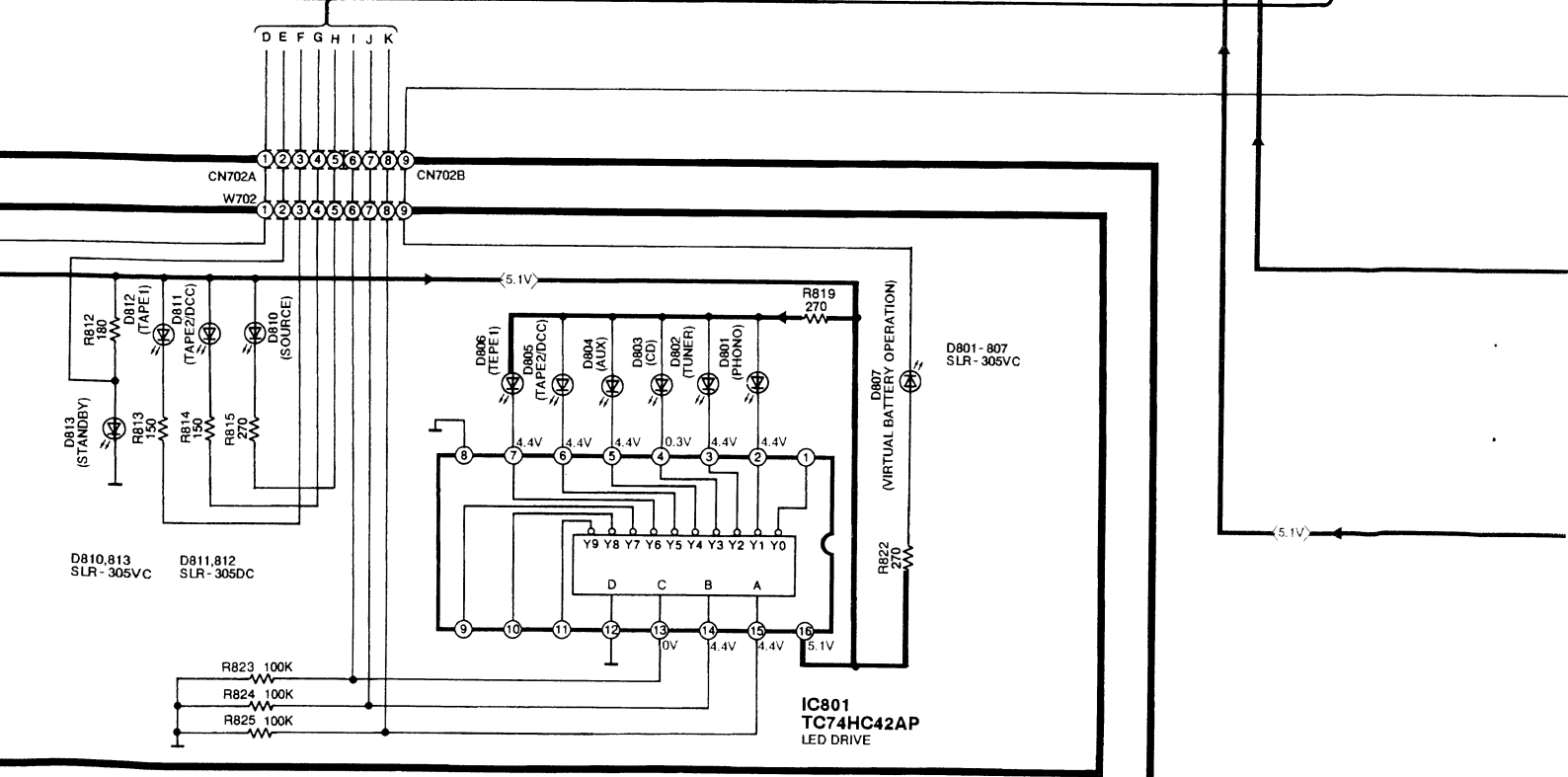
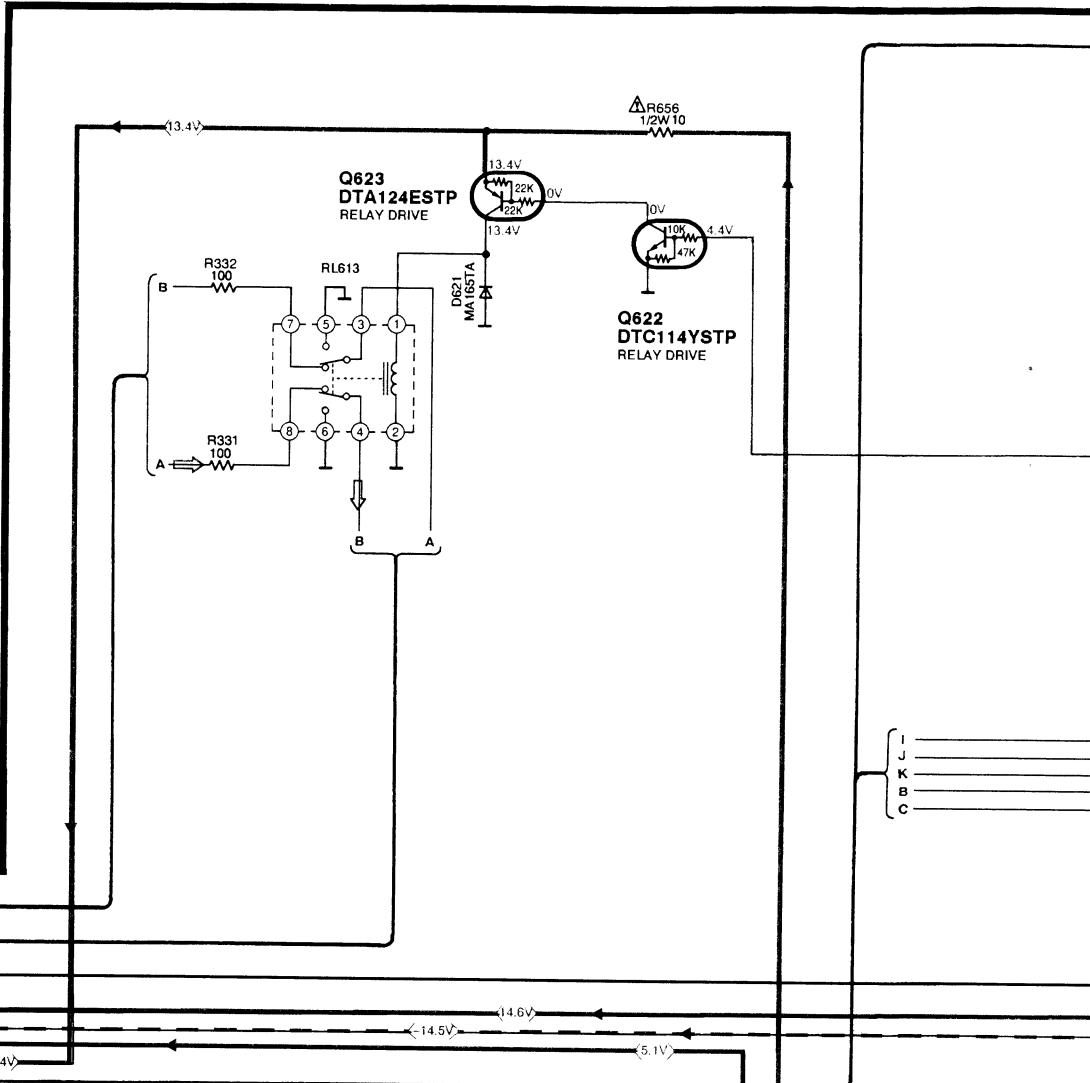
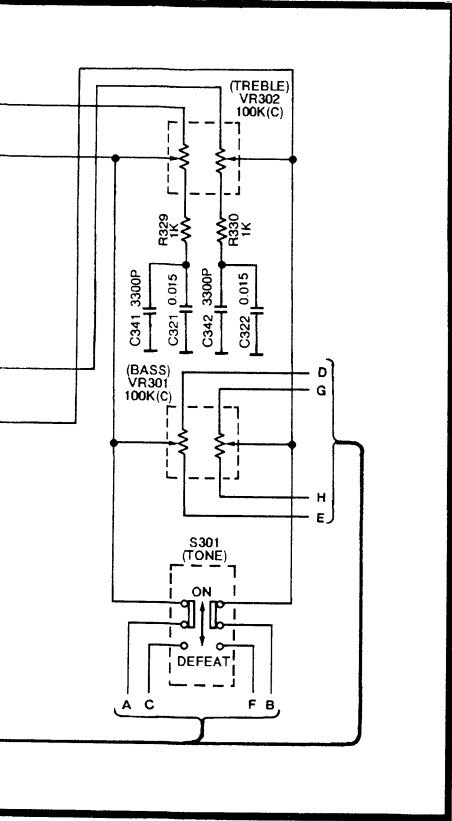
C VOLUME CIRCUIT
(P.C.Board: on page 10)

D BALANCE VR CIRCUIT
(P.C.Board: on page 10)

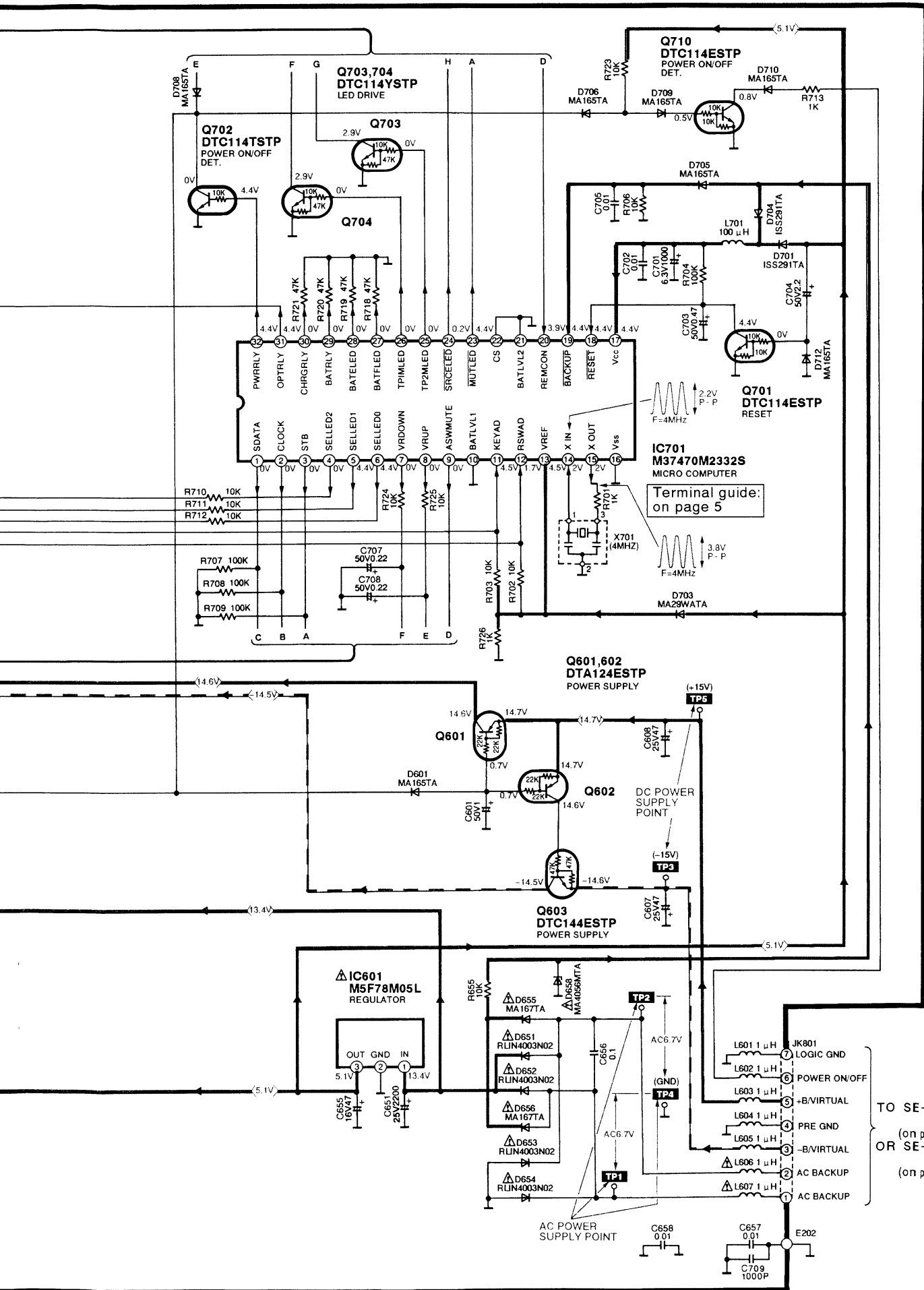
E POWER SWITCH CIRCUIT
(P.C.Board: on page 10)

F OPERATION CIRCUIT
(P.C.Board: on page 10)

A MAIN CIRCUIT
(P.C.Board: on page 11)



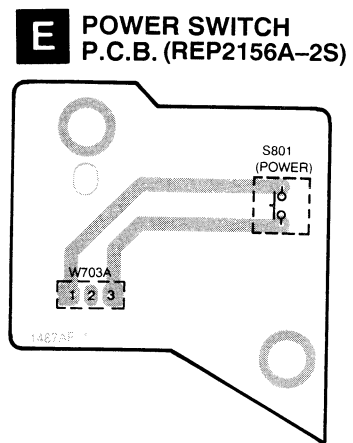
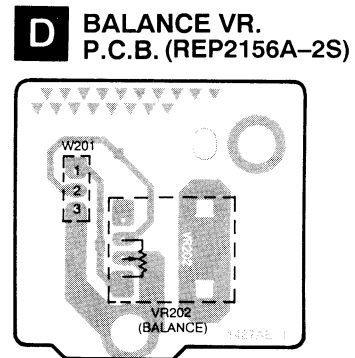
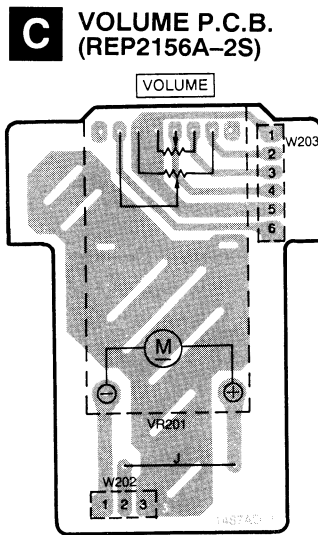
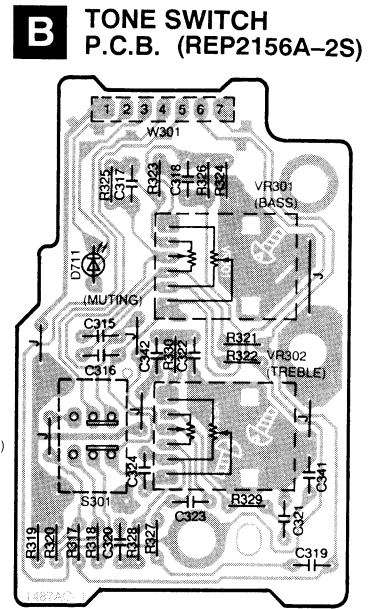
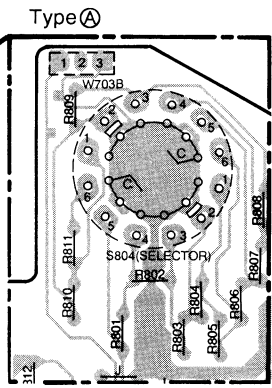
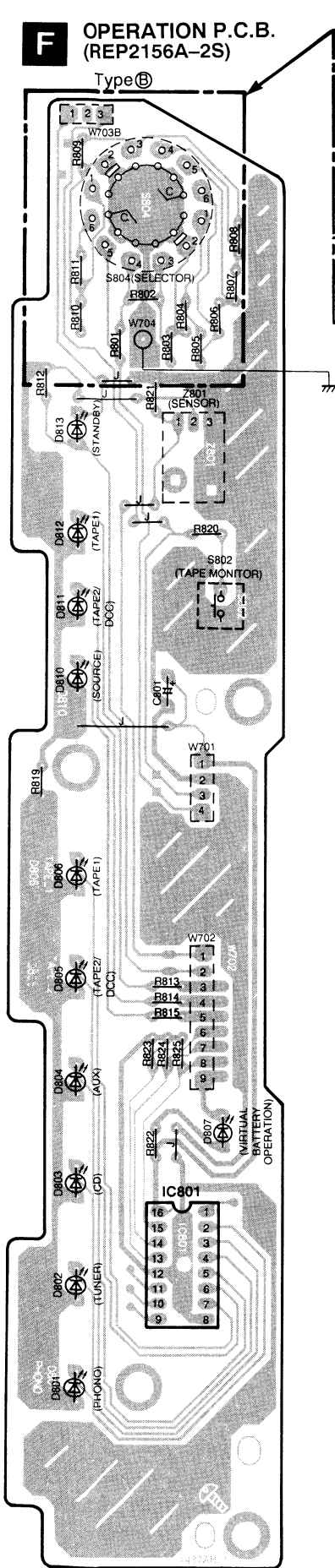
 : Phono Signal (L-ch) Line
 : Rec Out Signal (L-ch) Line
 : Negative Voltage Line



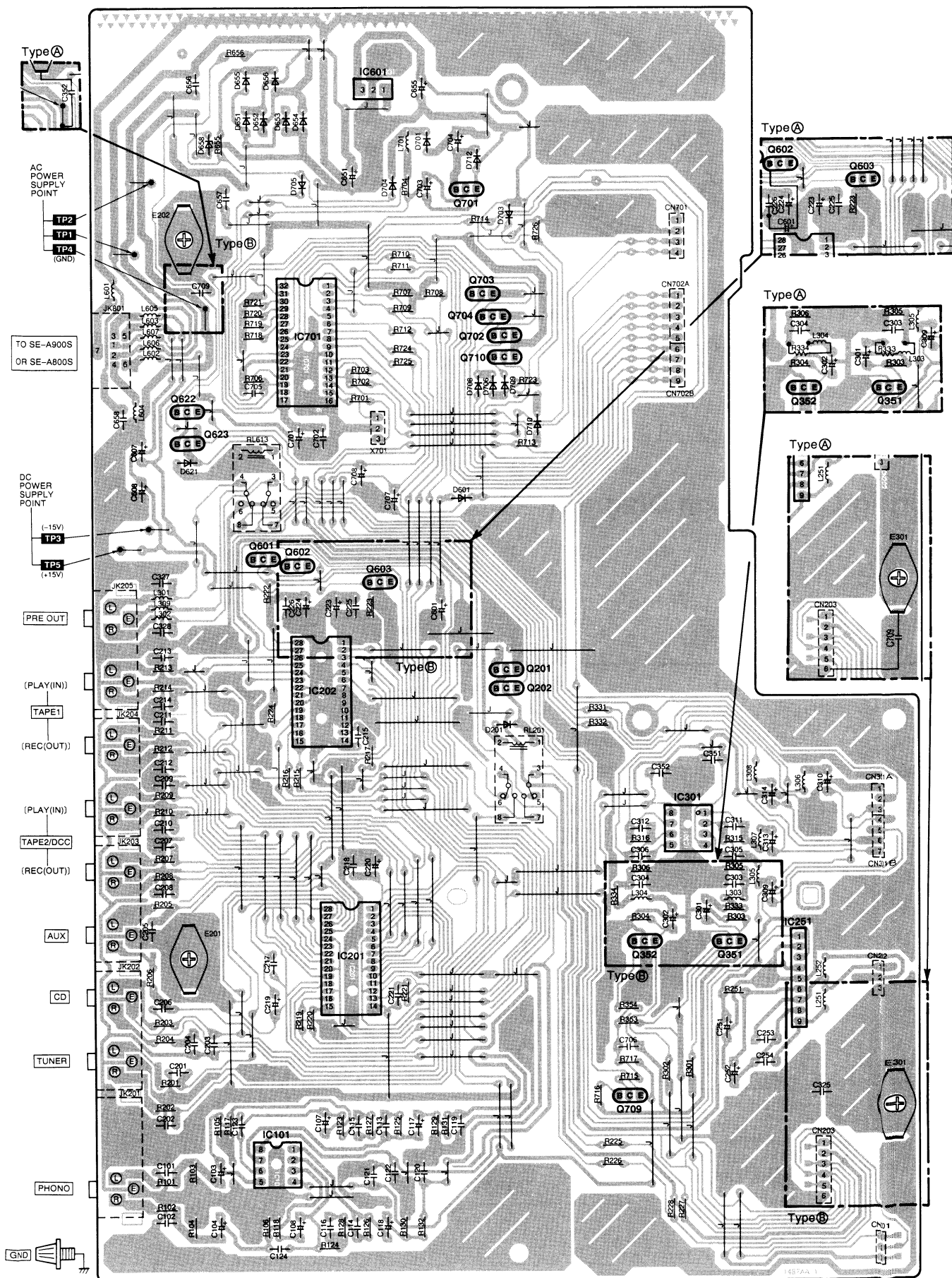
TO SE-A900S:
 JK791 (on page 18)
 OR SE-A800S:
 JK791 (on page 17)

Printed Circuit Board Diagram

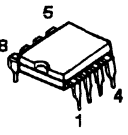
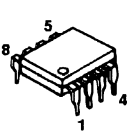
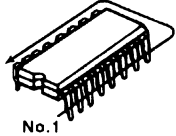
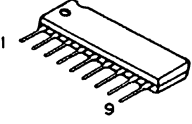
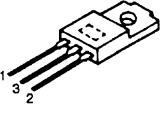
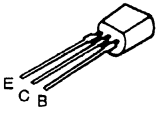
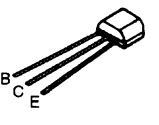
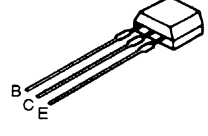
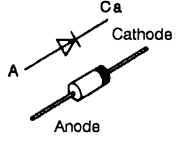
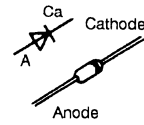
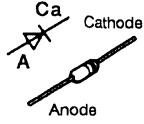
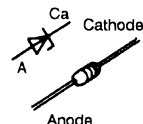
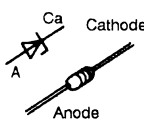
• This circuit board diagram may be modified at any time with the development of new technology.



A MAIN P.C.B. (REP2156A-1S) [There are two kinds of Type(A),(B)in the Main P.C.B.]

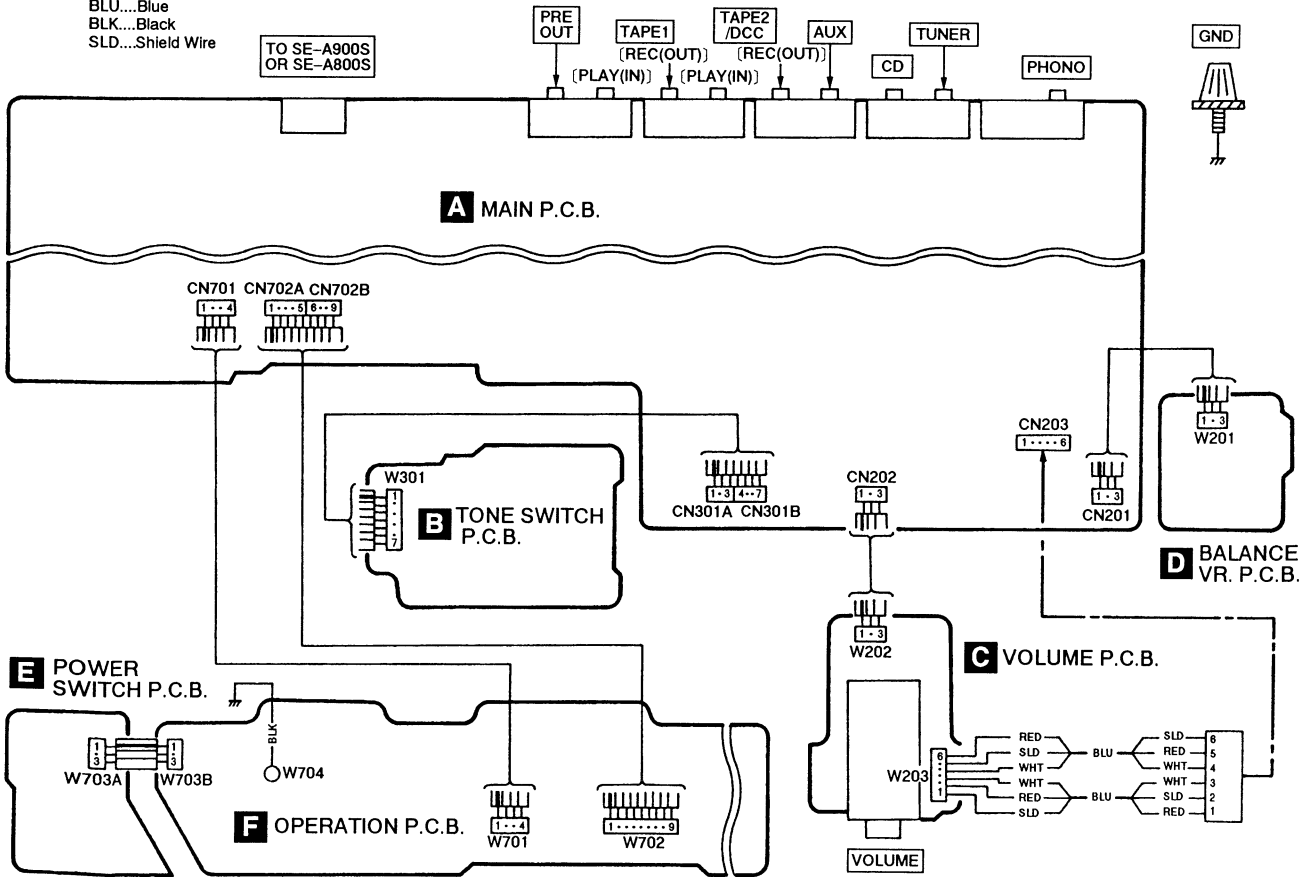


Notes:
 Type (B) is different from Type (A) in part of the foil patterns and the parts.
 Repair the unit with attention to the differences.

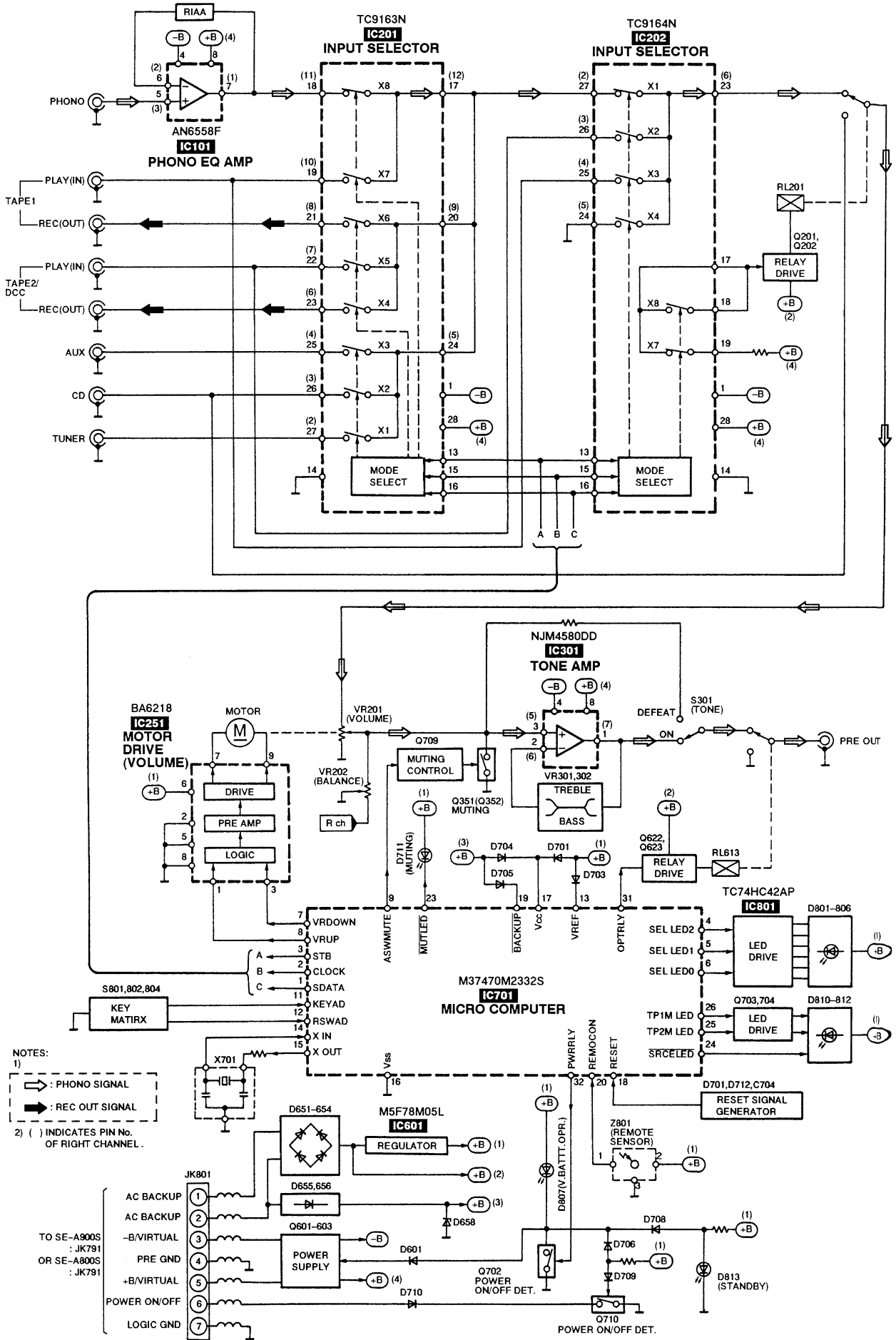
<p>AN6558F</p> 	<p>NJM4580DD</p> 	<p>No.1</p>  <table border="1"> <tr> <td>TC74HC42AP</td> <td>16Pin</td> </tr> <tr> <td>TC9163N</td> <td>28Pin</td> </tr> <tr> <td>TC9164N</td> <td>28Pin</td> </tr> <tr> <td>M37470M2332S</td> <td>32Pin</td> </tr> </table>	TC74HC42AP	16Pin	TC9163N	28Pin	TC9164N	28Pin	M37470M2332S	32Pin	<p>BA6218</p> 	<p>M5F78M05L</p> 
TC74HC42AP	16Pin											
TC9163N	28Pin											
TC9164N	28Pin											
M37470M2332S	32Pin											
<p>2SA933QRSTA</p> 	<p>2SC3327-A</p> 	<p>DTA124ESTP DTC114ESTP DTC114TSTP DTC114YSTP DTC144ESTP</p> 	<p>RL1N4003N02</p> 	<p>MA165 MA167 MA29WA</p> 								
<p>1SS291TA</p> 	<p>MA4056MTA</p> 	<p>SLR-305DC SLR-305VC</p> 										

■ Wiring Connection Diagram

NOTE:
RED...Red
WHT...White
BLU...Blue
BLK...Black
SLD...Shield Wire



Block Diagram



NOTES:
 1) : PHONO SIGNAL
 : REC OUT SIGNAL
 2) () INDICATES PIN No. OF RIGHT CHANNEL.

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.)

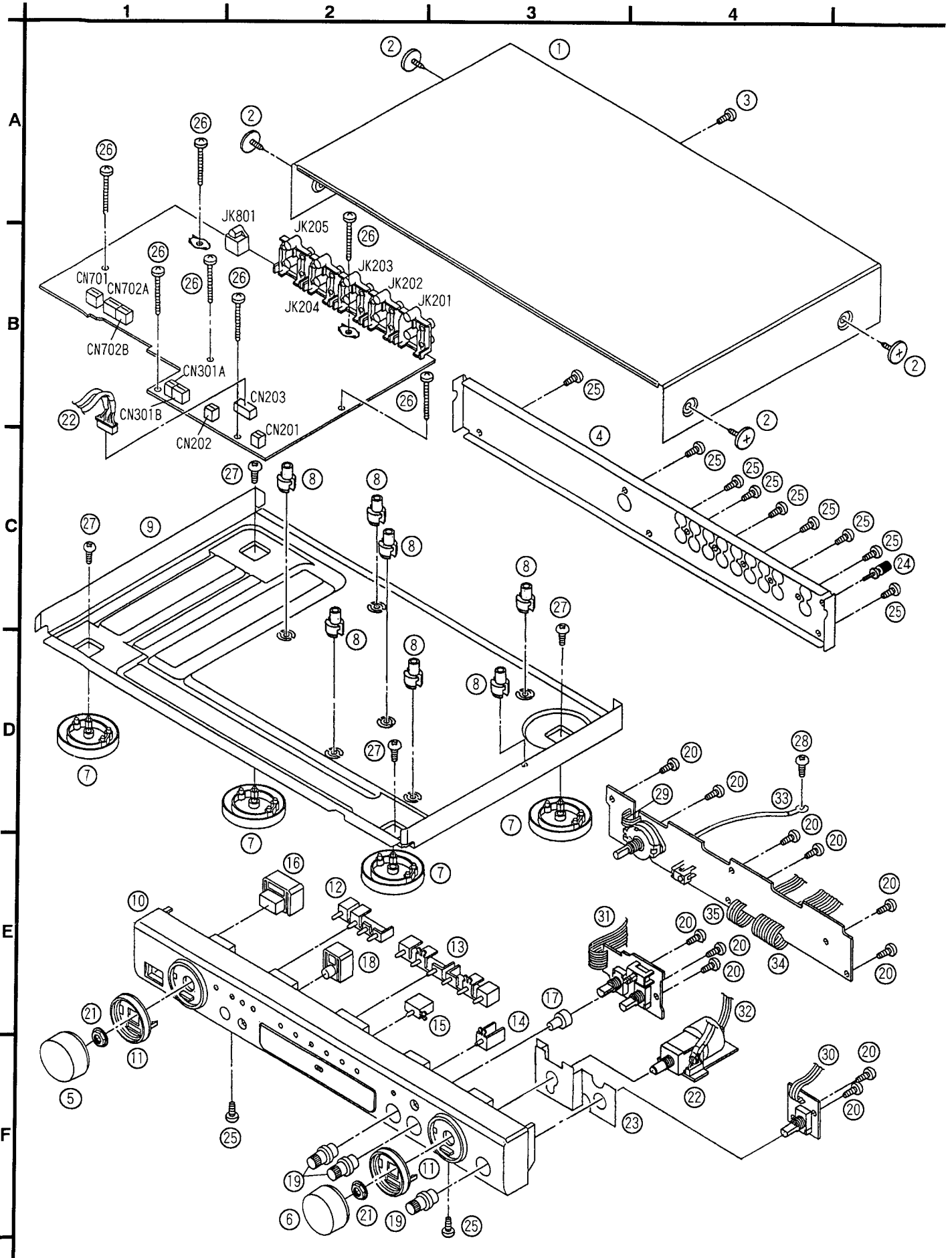
Parts without these indications can be used for all areas.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)				VARIABLE RESISTOR(S)	
IC101	AN6558F	IC, PHONO EQ AMP.		VR201	EUNWGEF20B15	V. R, MAIN VOLUME	
IC201	TC9163N	IC, INPUT SELECTOR		VR202	EVJ02QF02G15	V. R, BALANCE	
IC202	TC9164N	IC, INPUT SELECTOR		VR301	EVJYA1F02C15	V. R, TONE CONTROL	
IC251	BA6218	IC, MOTOR DRIVE		VR302	EVJYA1F02C15	V. R, TONE CONTROL	
IC301	NJM4580DD	IC, TONE AMP.				COMPONENT COMBINATION(S)	
IC601	M5F78M05L	IC, REGULATOR	Δ	Z801	RCDGP1U28XD	REMOTE SENSOR	
IC701	M37470M2332S	IC, MICRO COMPUTER				COIL(S)	
IC801	TC74HC42AP	IC, LED DRIVE		L251, 252	ELEXT1R0KA9	COIL	
		TRANSISTOR(S)		L301-308	ELEXT100KA9	COIL	
Q201	DTC114YSTP	TRANSISTOR		L309	BLO2RN1R62T2	COIL	
Q202	DTA124ESTP	TRANSISTOR		L601-605	ELEXT1R0KA9	COIL	
Q351, 352	2SC3327-A	TRANSISTOR		L606, 607	ELEXT1R0KA9	COIL	Δ
Q601, 602	DTA124ESTP	TRANSISTOR		L701	ELEXT101KA9	COIL	
Q603	DTC144ESTP	TRANSISTOR				OSCILLATOR(S)	
Q622	DTC114YSTP	TRANSISTOR		X701	EF0GC4004A4	OSCILLATOR(4MHz)	
Q623	DTA124ESTP	TRANSISTOR				SWITCH(ES)	
Q701	DTC114ESTP	TRANSISTOR		S301	ESB68047	SW, TONE (DEFEAT/ON)	
Q702	DTC114TSTP	TRANSISTOR		S801	EVQ21405R	SW, POWER(STANDBY/ON)	
Q703, 704	DTC114YSTP	TRANSISTOR		S802	EVQ21405R	SW, TAPE MONITOR	
Q709	2SA933QRSTA	TRANSISTOR		S804	RSR9A001-A	SW, SELECTOR	
Q710	DTC114ESTP	TRANSISTOR				CONNECTOR(S)	
		DIODE(S)		CN201, 202	RJS1A6603	CONNECTOR(3P)	
D201	MA165	DIODE		CN203	SJT3611	CONNECTOR(6P)	
D601	MA165	DIODE		CN301A	RJS1A6603	CONNECTOR(3P)	
D621	MA165	DIODE		CN301B	RJS1A6604	CONNECTOR(4P)	
D651-654	RL1N4003N02	DIODE	Δ	CN701	RJS1A6604	CONNECTOR(4P)	
D655, 656	MA167	DIODE	Δ	CN702A	RJS1A6605	CONNECTOR(5P)	
D658	MA4056MTA	DIODE	Δ	CN702B	RJS1A6604	CONNECTOR(4P)	
D701	1SS291TA	DIODE		TP1-5	QJT1090	TEST POINT	
D703	MA29WA	DIODE				EARTH TERMINAL	
D704	1SS291TA	DIODE		E201, 202	SNE1004-2	GND PLATE	
D705, 706	MA165	DIODE					
D708-710	MA165	DIODE					
D711	SLR-305VC	L. E. D.					
D712	MA165	DIODE					
D801-807	SLR-305VC	L. E. D.					
D810	SLR-305VC	L. E. D.					
D811, 812	SLR-305DC	L. E. D.					
D813	SLR-305VC	L. E. D.					

Ref. No.	Part No.	Part Name & Description	Remarks
E301	SNE1004-2	GND PLATE	
		RELAY	
RL201	RSY0020M-R	RELAY	
RL613	RSY0020M-R	RELAY	
		JACK	
JK201	SJF3069-11N	TERMINAL, PHONO	
JK202	SJF3069N	TERMINAL, TUNER/CD	
JK203	SJF3069N	TERMINAL, AUX/TAPE2/DCC	
JK204	SJF3069N	TERMINAL, TAPE2/DCC/TAPE1	
JK205	SJF3069N	TERMINAL, TAPE1/PRE OUT	
JK801	RJS1D0706	SOCKET, SYSTEM	

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS	
1	RKM0032-K	CABINET	
2	RHD30035-K1	SCREW	
3	XTBS3+8JFZ1	SCREW	
4	RGRO224A-A	REAR PANEL	
5	RGW0229-K	KNOB	
6	RGW0230-K	KNOB, VOLUME	
7	RKA0053-A	FOOT	
8	RKQ0089	P. C. B. SUPPORT	
9	RMK0035-6	CHASSIS	
10	RFKGC800UEK	FRONT PANEL ASS' Y	
11	RGK0747-S	ORNAMENT RING	
12	RGL0296-Q	PANEL LIGHT (A)	
13	RGL0297-Q	PANEL LIGHT (B)	
14	RGL0298-Q	PANEL LIGHT (C)	
15	RGL0299-Q	PANEL LIGHT (D)	
16	RGU0882-K	BUTTON, POWER	
17	RGU1207-K	BUTTON, TONE	
18	RGU1271-K	BUTTON, MONITOR	
19	RGW0205-K	BUTTON, BALANCE	
20	RHD26017	SCREW	
21	RHN90001	NUT	
22	REX0759	FLAT CABLE	
23	RSC0428-1	SHIELD PLATE	
24	SNE2123	SCREW	
25	XTBS3+8JFZ1	SCREW	
26	XTB3+20JFZ	SCREW	
27	XTB3+6G	SCREW	
28	XTB3+6JFZ	SCREW	
29	RWJ1803040KK	FLAT CABLE (3P) (W703)	
30	RWJ3903170KQ	FLAT CABLE (3P) (W201)	
31	RWJ3907170KQ	FLAT CABLE (7P) (W301)	
32	RWJ3903140KQ	FLAT CABLE (3P) (W202)	
33	REU38K120XX	WIRE ASS' Y (W704)	
34	RWJ1809180KX	FLAT CABLE (9P) (W702)	
35	RWJ1804180KX	FLAT CABLE (4P) (W701)	

■ 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	R723-725	ERDS2TJ103	1/4W 10K	C305, 306	ECCRIH820JC5	50V 82P
			R726	ERDS2TJ102	1/4W 1K	C309, 310	ECA1HPXS010B	50V 1U
			R801	ERDS2TJ821	1/4W 820	C311, 312	ECCRIH390JC5	50V 39P
R101, 102	ERDS2TJ102	1/4W 1K	R802	ERDS2TJ102	1/4W 1K	C313, 314	ECA1EPX470TB	25V 47U
R103, 104	ERDS2TJ224T	1/4W 220K	R803	ERDS2TJ122	1/4W 1.2K	C315, 316	ECBTOJ153MS5	6.3V 0.015U
R105, 106	ERDS2TJ563	1/4W 56K	R804	ERDS2TJ152	1/4W 1.5K	C317, 318	ECQV1H823JM3	50V 0.082U
R117, 118	ERDS2TJ221	1/4W 220	R805	ERDS2TJ182	1/4W 1.8K	C319, 320	ECBT1C222KR5	16V 2200P
R123, 124	ERDS2TJ680T	1/4W 68	R806	ERDS2TJ222	1/4W 2.2K	C321, 322	ECBTOJ153MS5	6.3V 0.015U
R125, 126	ERDS2TJ123	1/4W 12K	R807	ERDS2TJ332	1/4W 3.3K	C323, 324	ECBT1H121KB5	50V 120P
R127, 128	ERDS2TJ184T	1/4W 180K	R808	ERDS2TJ472	1/4W 4.7K	C325	ECBT1H102KB5	50V 1000P
R129, 130	ERDS2TJ563	1/4W 56K	R809	ERDS2TJ682T	1/4W 6.8K	C327, 328	ECKT1H101KB	50V 100P
R131, 132	ERDS2TJ102	1/4W 1K	R810	ERDS2TJ123	1/4W 12K	C341, 342	ECBT1C332KR5	16V 3300P
R201-210	ERDAS3G102T	1/4W 1K	R811	ERDS2TJ223	1/4W 22K	C351, 352	ECKR1H103ZF5	50V 0.01U
R211, 212	ERDS2TJ102	1/4W 1K	R812	ERDS2TJ181T	1/4W 180	C601	ECEA1HKA010B	50V 1U
R213, 214	ERDAS3G102T	1/4W 1K	R813, 814	ERDS2TJ151	1/4W 150	C607, 608	ECA1EPXS470B	25V 47U
R215-217	ERDS2TJ103	1/4W 10K	R815	ERDS2TJ271	1/4W 270	C651	ECA1EM222E	25V 2200U
R219-221	ERDS2TJ103	1/4W 10K	R819	ERDS2TJ271	1/4W 270	C655	RCE1CKA470BG	16V 47U
R222, 223	ERDS2TJ102	1/4W 1K	R820	ERDS2TJ223	1/4W 22K	C656	ECQV1H104JM3	50V 0.1U
R224	ERDS2TJ472	1/4W 4.7K	R821	ERDS2TJ104	1/4W 100K	C657, 658	ECKR1H103ZF5	50V 0.01U
R225, 226	ERDAS3G222T	1/4W 2.2K	R822	ERDS2TJ271	1/4W 270	C701	ECA0JM102B	6.3V 1000U
R227, 228	ERDS2TJ104	1/4W 100K	R823-825	ERDS2TJ104	1/4W 100K	C702	ECBT1C103NS5	16V 0.01U
R251 △	ERDS1FVJ2R2T	1/2W 2.2				C703	RCE1HKAR47BG	50V 0.47U
R301, 302	ERDAS3G101T	1/4W 100			CAPACITORS	C704	ECEA1HKA2R2B	50V 2.2U
R303, 304	ERDS2TJ474	1/4W 470K				C705	ECBT1C103NS5	16V 0.01U
R305, 306	ERDAS3G104	1/4W 100K	C101, 102	ECBT1H181KB5	50V 180P	C706	ECQV1H224JM3	50V 0.22U
R315, 316	ERDS2TJ224T	1/4W 220K	C103, 104	ECA1HPXS4R7B	50V 4.7U	C707, 708	ECEA1HKAR22B	50V 0.22U
R317, 318	ERDAS3G223T	1/4W 22K	C107, 108	RCE1AKA330BG	10V 33U	C709	ECBT1H102KB5	50V 1000P
R319, 320	ERDAS3G392T	1/4W 3.9K	C113, 114	ECQB1H682JF3	50V 6800P	C801	RCE0JKA101BV	6.3V 100U
R321, 322	ERDS2TJ223	1/4W 22K	C115, 116	ECQB1H223JF3	50V 0.022U			
R323, 324	ERDS2TJ392T	1/4W 3.9K	C117, 118	ECEA1VKA4R7B	35V 4.7U			
R325, 326	ERDS2TJ183T	1/4W 18K	C119, 120	ECQB1H472JF3	50V 4700P			
R327, 328	ERDS2TJ392T	1/4W 3.9K	C121, 122	ECKR1H103ZF5	50V 0.01U			
R329, 330	ERDS2TJ102	1/4W 1K	C123, 124	ECBT1H102KB5	50V 1000P			
R331, 332	ERDAS3G101T	1/4W 100	C201, 202	ECBT1H101KB5	50V 100P			
R333, 334	ERDAS3G221T	1/4W 220	C203, 204	ECKT1H101KB	50V 100P			
R353, 354	ERDS2TJ102	1/4W 1K	C205-208	ECBT1H101KB5	50V 100P			
R655	ERDS2TJ103	1/4W 10K	C209, 210	ECKT1H101KB	50V 100P			
R656 △	ERDS1FVJ100T	1/2W 10	C211, 212	ECBT1H101KB5	50V 100P			
R701	ERDS2TJ102	1/4W 1K	C213, 214	ECKT1H101KB	50V 100P			
R702, 703	ERDS2TJ103	1/4W 10K	C215	ECBT1H101KB5	50V 100P			
R704	ERDS2TJ104	1/4W 100K	C217, 218	ECBT1E103ZF	25V 0.01U			
R706	ERDS2TJ103	1/4W 10K	C219, 220	RCE1HKA4R7BG	50V 4.7U			
R707-709	ERDS2TJ104	1/4W 100K	C221	ECBT1H101KB5	50V 100P			
R710-712	ERDS2TJ103	1/4W 10K	C223, 224	RCE1HKA4R7BG	50V 4.7U			
R713	ERDS2TJ102	1/4W 1K	C225, 226	ECBT1E103ZF	25V 0.01U			
R714	ERDS2TJ331	1/4W 330	C251, 252	RCE0JKA101BV	6.3V 100U			
R715, 716	ERDS2TJ273	1/4W 27K	C253, 254	ECQV1H104JM3	50V 0.1U			
R717	ERDS2TJ334	1/4W 330K	C301, 302	ECA1HPXS4R7B	50V 4.7U			
R718-721	ERDS2TJ473	1/4W 47K	C303, 304	ECCRIH470JC5	50V 47P			