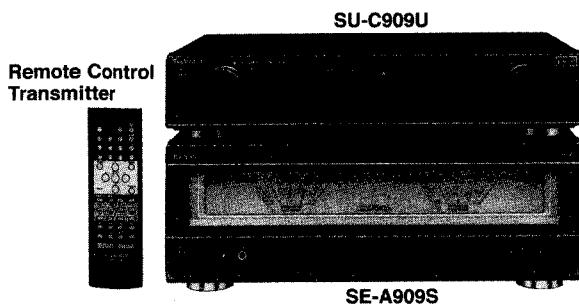


Service Manual

Power Amplifier



SE-A909S

Colour

(K).....Black Type

Areas

(E).....Europe and Russia.

(EB).....Great Britain.

(EG).....Germany, France and Italy.

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

System: SU-A909

Control Amplifier	SU-C909U
Power Amplifier	SE-A909S

Specifications (DIN 45 500)

20 Hz–20 kHz continuous power output both channels driven:	2 × 70W (8 Ω)
1 kHz continuous power output both channels driven (THD: 1%)	2 × 85 W (8 Ω) 2 × 120 W (4 Ω)
63 Hz–12.5 kHz continuous power output both channels driven (THD: 0.7%)	2 × 80 W (8 Ω) 2 × 105 W (4 Ω)
Total harmonic distortion rated power at 20 Hz–20 kHz:	0.015 % (8 Ω)
Intermodulation distortion (50 Hz:7 kHz=4:1, SMPTE) rated power:	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
Load impedance: A or B;	4–16 Ω
A and B;	8–16 Ω
Input sensitivity / impedance:	1 V / 20 kΩ
S/N (rated power, 4 Ω):	95 dB (115 dB, IHF '66)

Frequency response:

INPUT; 5 Hz – 100 kHz (+0 dB, -3 dB)
20 Hz – 20 kHz (+0 dB, -0.5 dB)

■ GENERAL

Power supply: (E) and (EG) areas; AC 50 Hz, 230 V
(EB) area; AC 50 Hz, 230 – 240 V

Power consumption: 285 W
STANDBY; 1.6 W

Dimensions (W × H × D): 430 × 158 × 344 mm
Weight: 10.1 kg

Notes:

1. Specifications are subject to change without notice.
Weight and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.
3. For (EB) area: The specification values given have been measured while using a 240 V-power supply.

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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1 Before Repair

1. Turn off the power supply. Using a $10\ \Omega$, 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 230/240 V.

Power supply voltage	AC 230 V, 50 Hz	AC 240 V, 50 Hz
Consumed current	160-320 mA	160-320 mA

2 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.

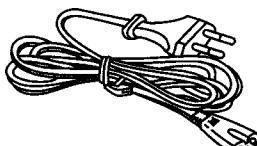
Note:

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

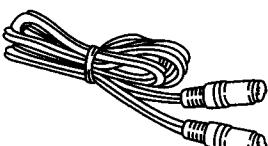
3 Accessories

- AC mains lead

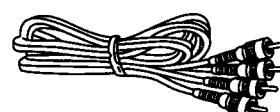
(E) and (EG) areas : (RJA0019-X)..... 1 pc.
(EB) area : (RJA0053-2X)..... 1 pc.



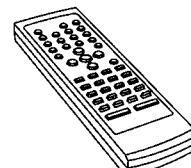
- Amplifier connection cable
(RJL6D001B10)..... 1 pc.



- Stereo connection cable
(SJP2276)..... 1 pc.

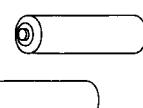


- Remote control transmitter
(RAK-SUA11WH)..... 1 pc.



- Batteries
(R6/LR6, AA, UM-3)..... 2 pcs.

Note: These are available on sales route.



4 Caution for AC Mains Lead

(For United Kingdom)

("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 these colours 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 which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL  OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use

Remove the connector cover.

How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

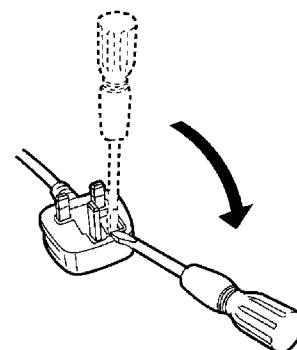
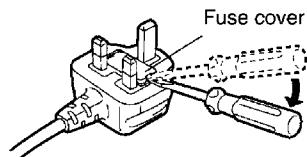


Figure B



2. Replace the fuse and close or attach the fuse cover.

Figure A

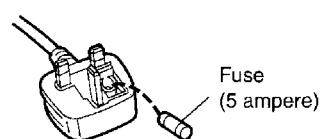
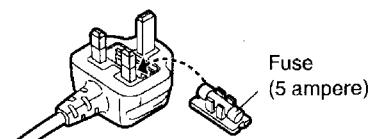
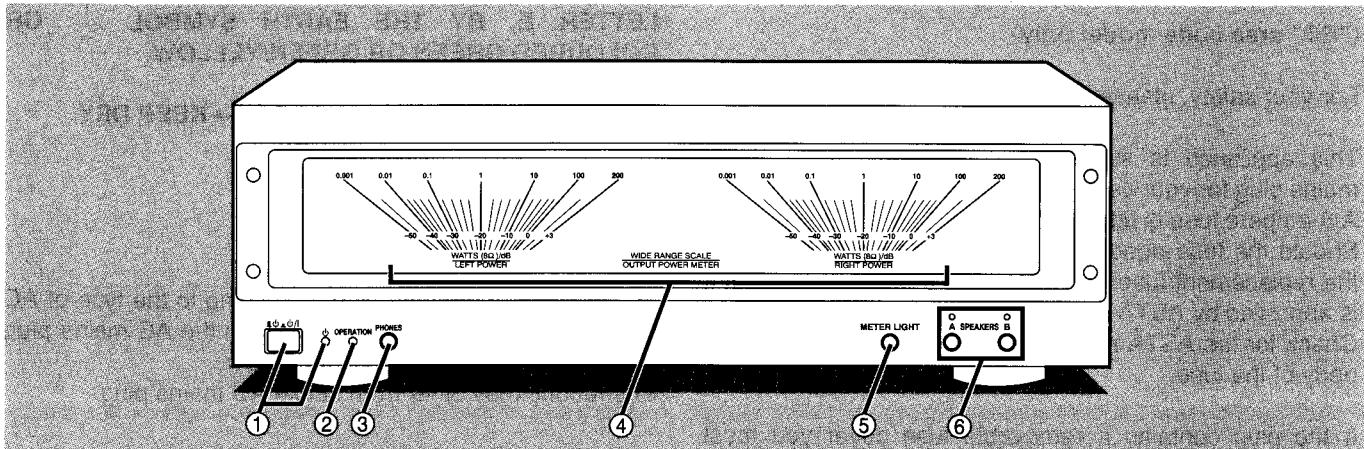


Figure B



5 Operations

■ Front Panel Controls



Main units

No.	Name
①	Unit on/off button (■ ⊖ ⊕/I) and remote standby indicator (⊖)
②	Operation indicator (OPERATION)
③	Headphone jack (PHONES)

① Unit on/off button (■ ⊖ ⊕/I) and remote standby indicator (⊖)

Use this button to turn the unit on and off.

■ (off): The unit is in standby mode.

⊖ (on): The unit is on. The unit can be turned on and off from the control amplifier. When the unit is turned off from the control amplifier, it is in remote standby and the indicator lights.

The unit is still using a small amount of power in the standby and remote standby conditions. Standby uses less power.

②	Operation indicator (OPERATION)
③	Headphone jack (PHONES)

No.	Name
④	Power meters
⑤	Power meter light button (METER LIGHT)
⑥	Speaker select buttons/indicators (A SPEAKERS B)

④ Power meters

Indicate the output (watts) of this unit.

When speakers having an impedance of 8 Ω are connected, the output level will be as indicated. However, if the speaker impedance is 16 Ω, the output level will be one-half the indicated value, and if the impedance is 4 Ω, the output level will be double the indicated value.

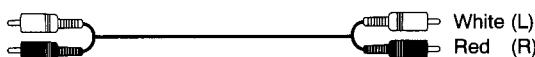
$$\text{Actual output} = \frac{\text{meter indication}}{\text{impedance of the speakers (Ω)}} \times 8 (\Omega)$$

⑤ Power meter light button (METER LIGHT)

⑥ Speaker select buttons/indicators (A SPEAKERS B)

■ Connections

Stereo connection cable (1 included with this system)



Amplifier connection cable (included)



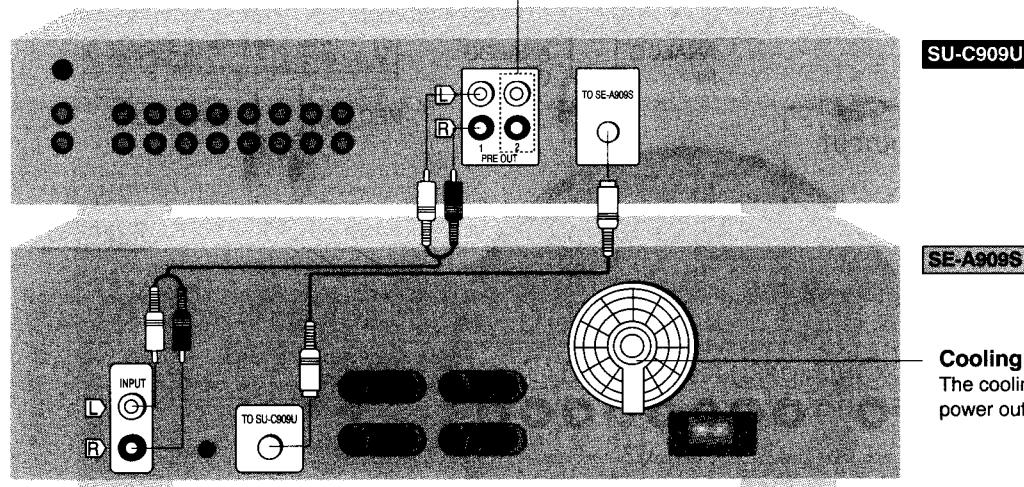
Control amplifier and power amplifier connections

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

Connect the AC power supply cord to the amplifier only after all other connections between components have been made.

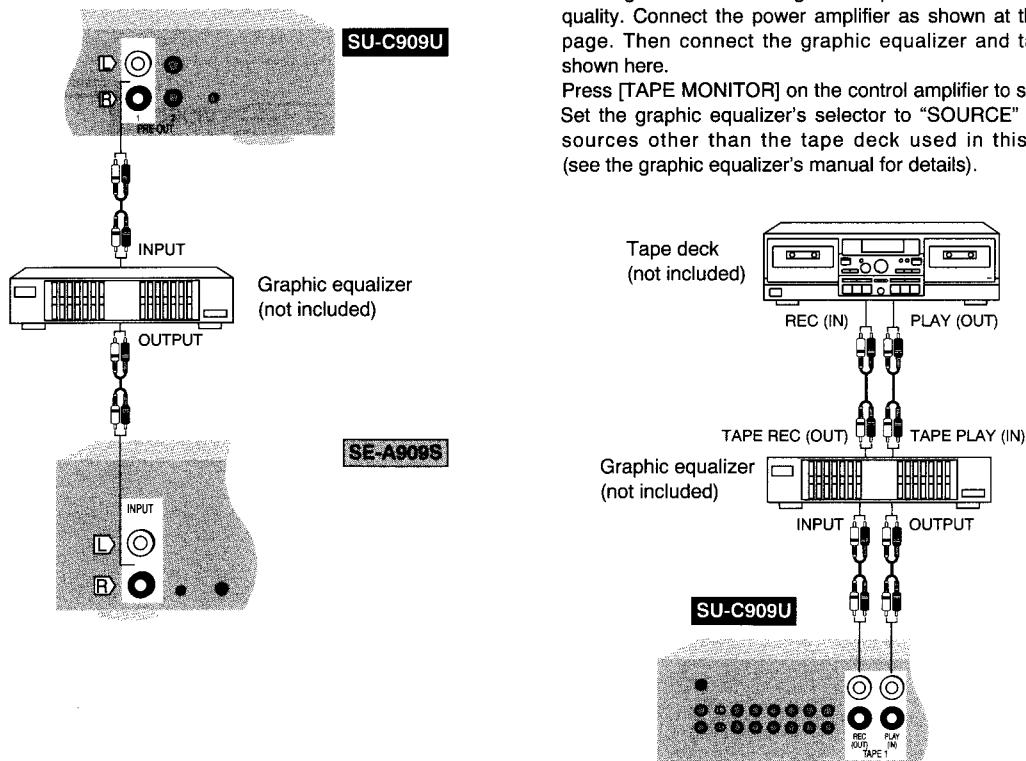
"PRE OUT 2" terminals:

These terminals let you connect a second power amplifier.



When connecting a graphic equalizer

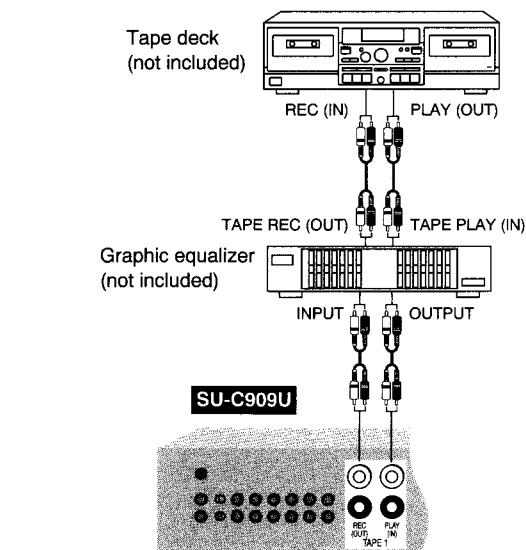
- Connect it between the PRE OUT terminals of this unit and the INPUT terminals of the power amplifier.

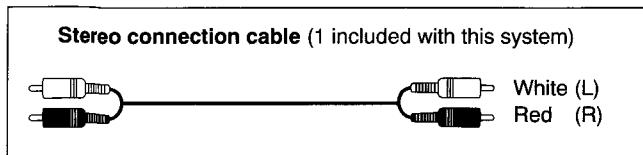


- If sound deteriorates when the graphic equalizer is connected between the control and power amplifiers.

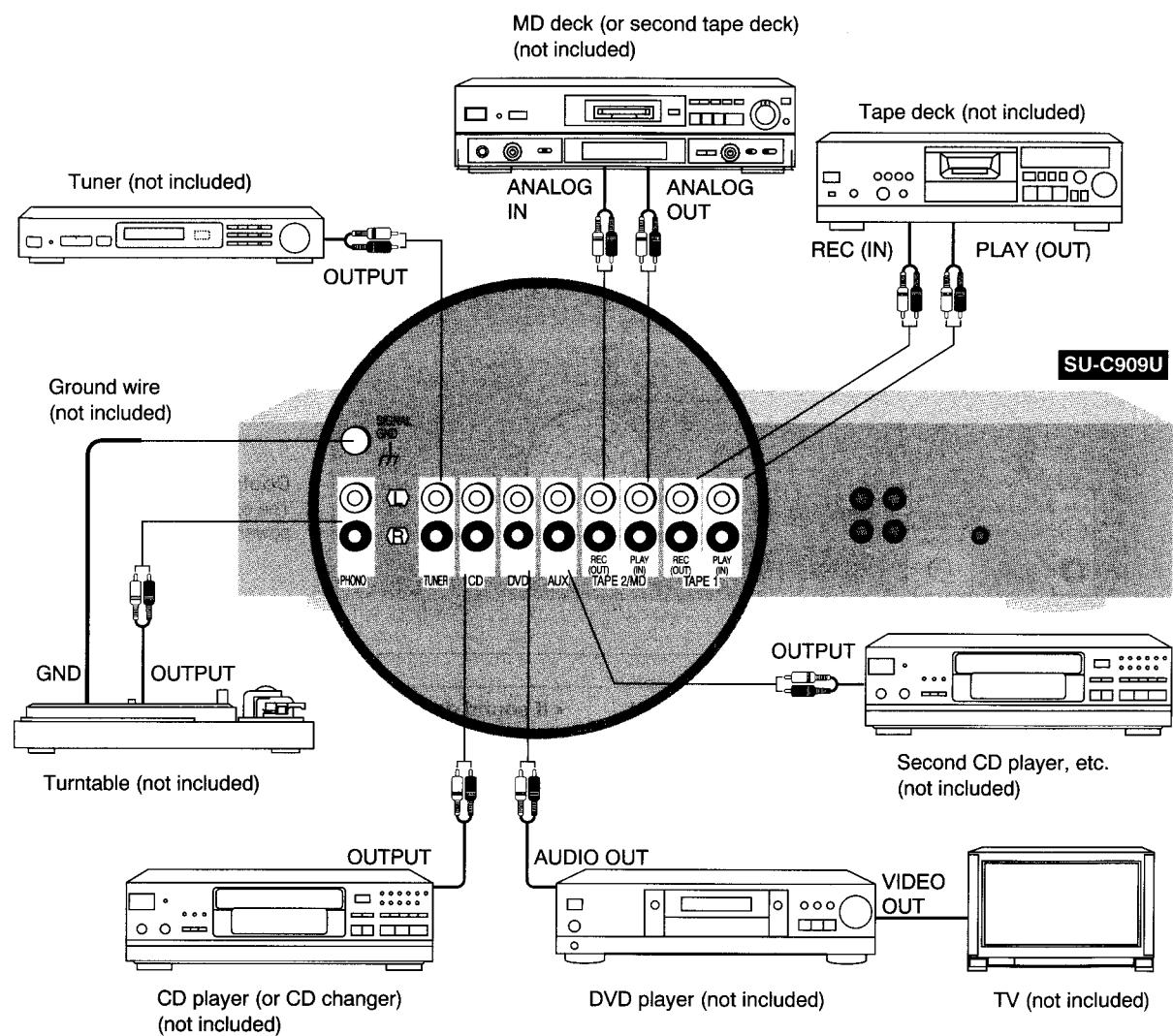
Passing the sound through the tape deck can improve sound quality. Connect the power amplifier as shown at the top of the page. Then connect the graphic equalizer and tape deck as shown here.

Press [TAPE MONITOR] on the control amplifier to select TAPE 1. Set the graphic equalizer's selector to "SOURCE" when playing sources other than the tape deck used in this connection (see the graphic equalizer's manual for details).



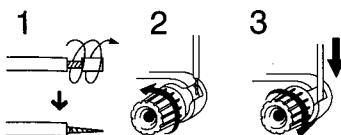


Connections to other equipment



Connecting the speakers

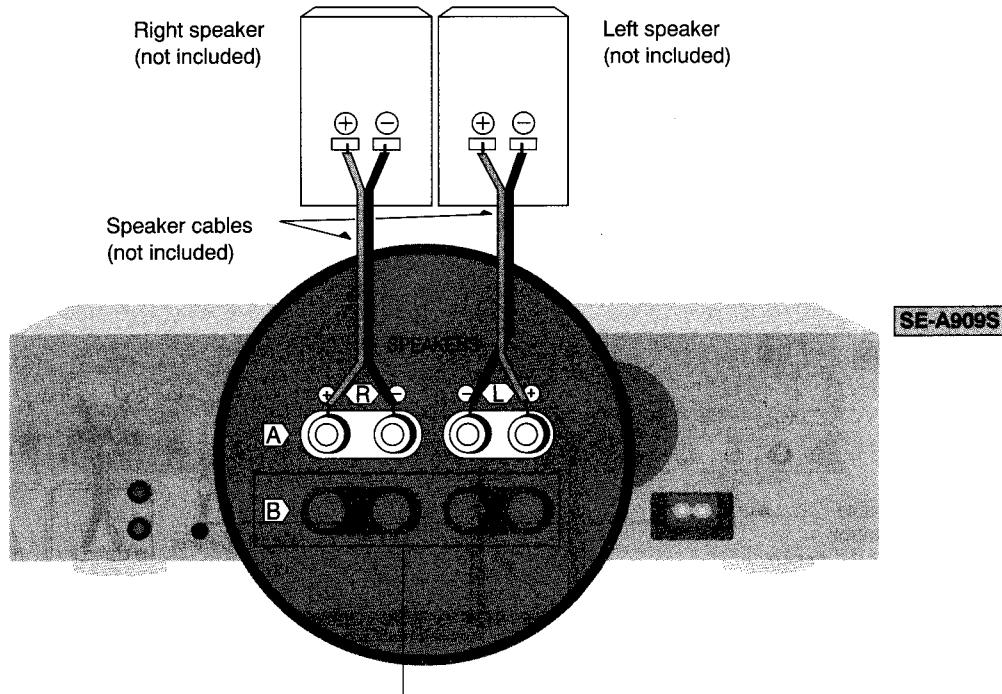
Connecting the speaker cables



NO

Caution

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



SE-A909S

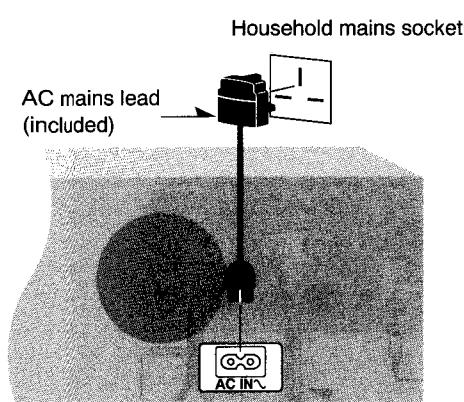
Speaker impedance

When only the "A" or only the "B" terminals are used: 4–16 Ω

When the "A" and "B" terminals are used simultaneously: 8–16 Ω

"B" terminals
For connection to a second pair of speakers.

Connecting the power supply



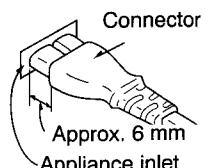
BE SURE TO READ THE CAUTION FOR THE AC MAINS LEAD BEFORE CONNECTION.

Connect the AC mains lead only after all other connections have been made.

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.



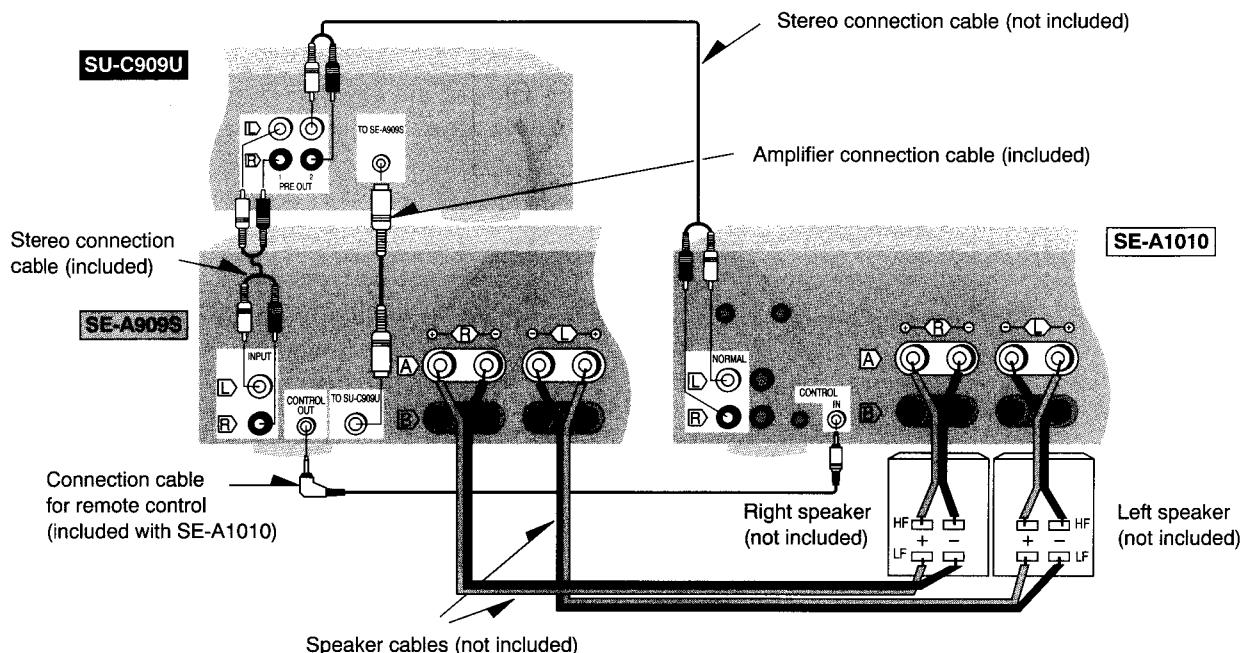
Multi-amplifier system setup

The two PRE OUT terminals on the control amplifier allow you to connect a second power amplifier. This kind of setup with the Technics SE-A1010 (not included) unleashes a multitude of system configurations which will give you better control over sound quality in the listening ambient and gain clearer sound than ever before.

This explains how to connect a Technics SE-A1010.

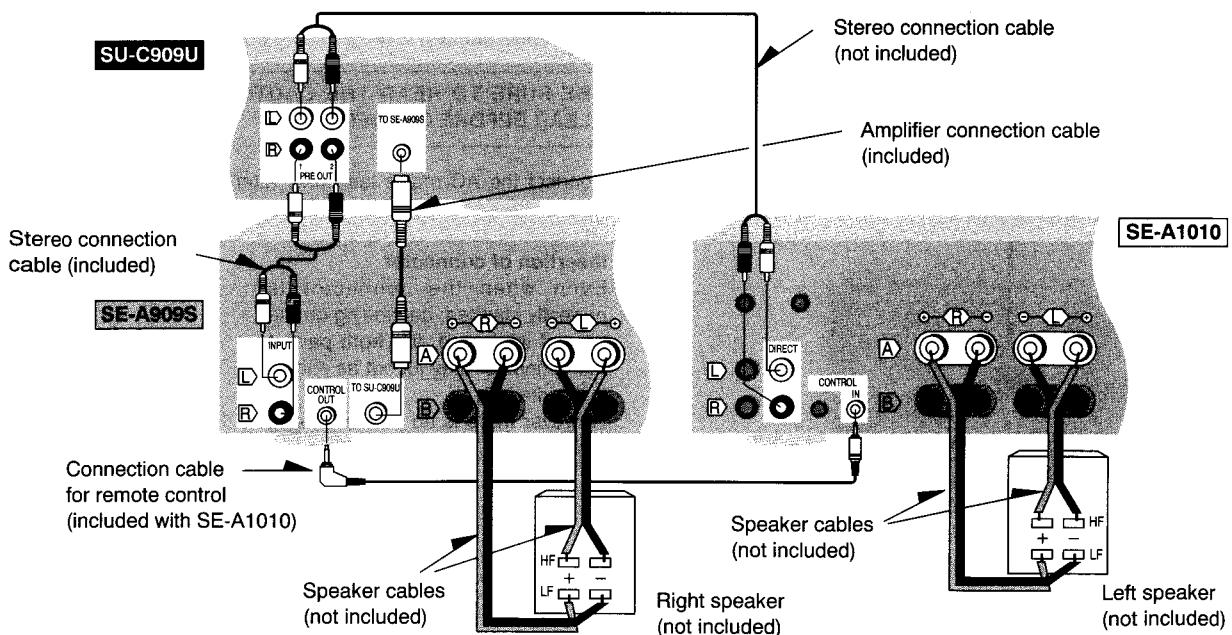
To use one amplifier for the high region and one for the low region

This illustration shows connection that allows control of the treble range level with [LEVEL CONTROL] on SE-A1010. If you would rather have control over the bass range level, connect SE-A1010 to the LF terminals on the speakers.
(See the SE-A1010's operating instructions for details.)

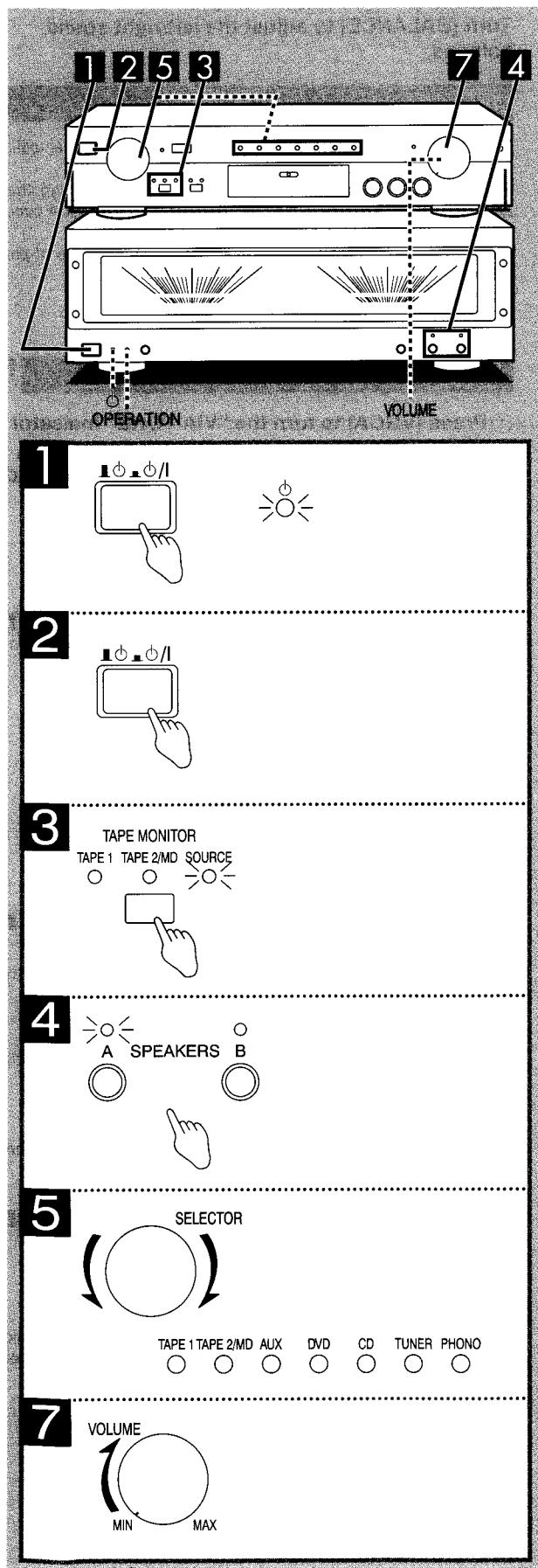


To use as left/right monaural amplifiers

Left and right channel separation will be better and sound orientation improved.



■ Listening



Preparation

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

- 1 Press [] of the power amplifier to the " " position.
"" indicator will light up.

- 2 Press [] of the control amplifier.
Both amps will turn ON and, about 4 seconds later, the "OPERATION" indicator on the power amplifier will light up.
Once the control amplifier has been turned on, both amplifiers can then be turned ON or OFF simultaneously.
Use [] on the control amplifier when turning the system on or off.

- 3 Press [TAPE MONITOR] so that the "SOURCE" indicator lights up.
Each time the button is pressed, the indicator will change as follows.

TAPE 1 → TAPE 2/MD → SOURCE

- 4 Select the speakers to be used.
The corresponding speaker indicator will illuminate.

- 5 Turn [SELECTOR] to select the desired source.

The indicator which corresponds to the selected input source will light up.

TAPE 1: Tape deck

TAPE 2/MD: Second tape deck or MD deck

AUX: Component connected to the "AUX" terminals

DVD: DVD player

CD: CD player (or CD changer)

TUNER: Tuner

PHONO: Turntable

- 6 Start the desired source.

Refer to the appropriate operating instructions for details.

- 7 Adjust the volume.

Operation indicator (OPERATION)

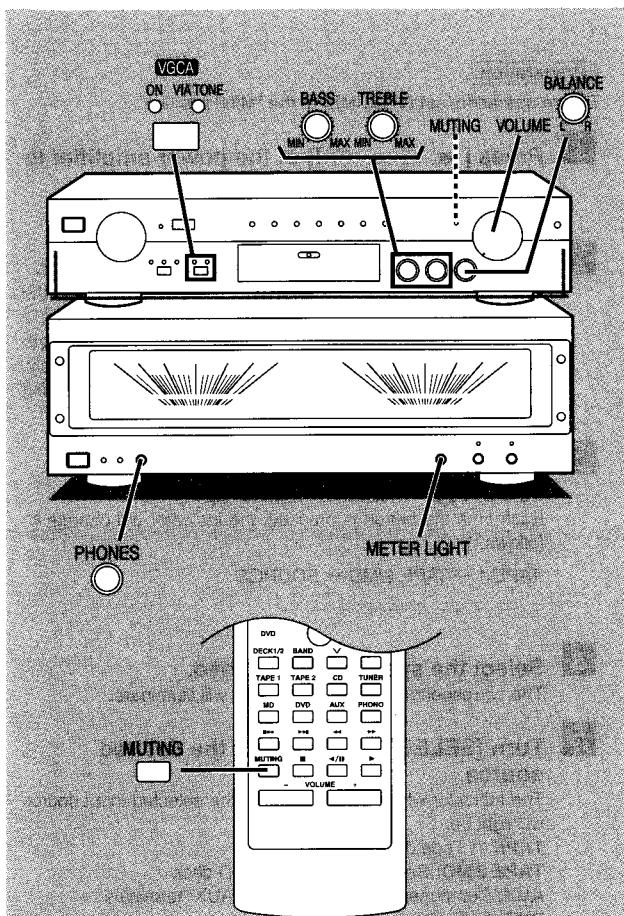
This indicator illuminates when the power amplifier is in the normal operating condition.
If the (+) and (-) wires of the speaker cables are shorted, or if a circuit abnormality such as DC voltage in the power output to the speakers is detected, the protection circuit will operate and the "OPERATION"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

Using this system with SE-A1010

If an SE-A1010 power amplifier is connected as described in the connections section, it will also be switched between on and standby the same as this system's SE-A909S when power operations are done on the control amplifier (step 2).

Note

This system's amplifiers will both be turned off if the power amplifier is turned off, but you will not be able to turn them on again with the remote control when in this condition, and further, if an SE-A1010 is connected, it will remain on (use its power button to turn it off).



To adjust the sound balance [A]

Turn [BALANCE] to adjust the left/right sound balance.

The VGCA circuit

This unit features a state-of-the-art variable gain control amplifier (VGCA).

Rather than reducing the volume of the input signal and then amplifying it as was done in the past, this unit uses the VGCA circuit to change the gain of the amplifier itself.

This has resulted in a 10 dB improvement on the S/N ratio of past models.

Leave VGCA on during normal use.

VGCA is switched on at the time of purchase.

To adjust the tone quality [B]

- ① Press [VGCA] to turn the "VIA TONE" indicator on.
- ② Turn [BASS] to adjust the low-frequency sound. Turn [TREBLE] to adjust the high-frequency sound.

Press again to turn VGCA on again. Sound is heard unadjusted.

To mute the sound level [C]

Remote control only

Press [MUTING].

The "MUTING" indicator on this unit will light up.

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

Note

Muting is also canceled when the unit is turned off.

To listen through headphones [D]

Decrease the volume at the control amplifier, and connect the headphones.

Plug type: 6.3 mm stereo

If sound from speakers is not wanted, press SPEAKER [A] and/or [B] to turn off the speaker indicators.

Note

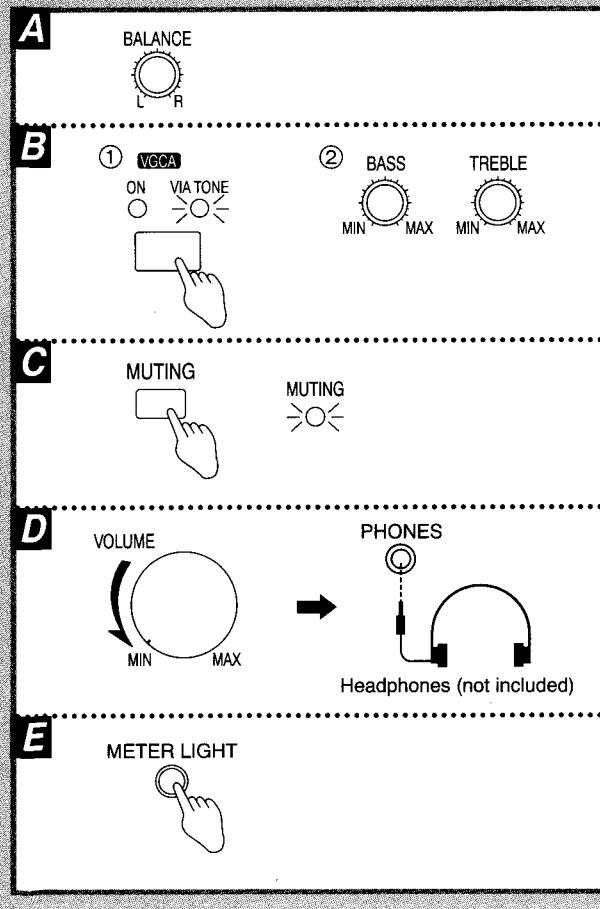
Avoid listening for prolonged periods of time to prevent hearing damage.

Turning the power meter light on/off [E]

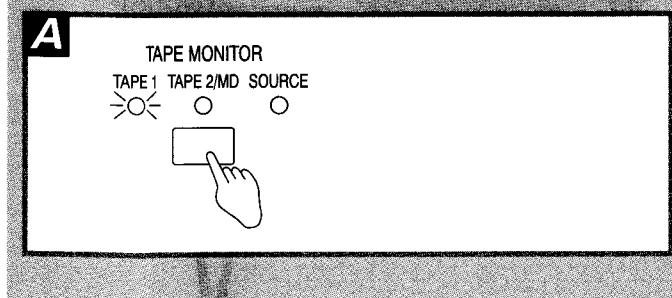
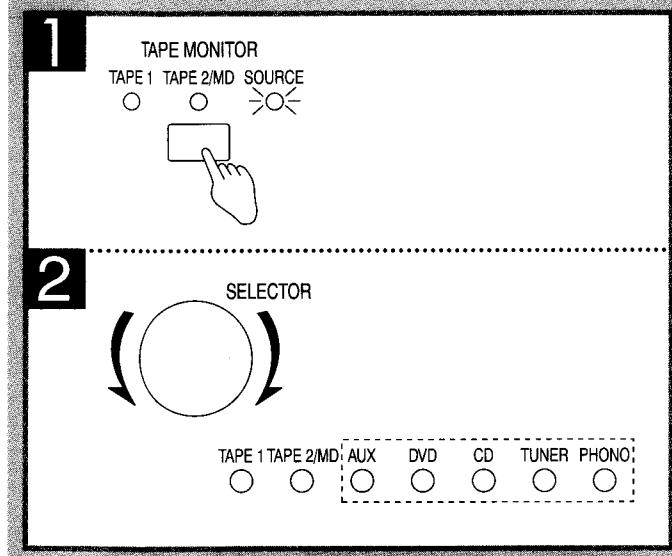
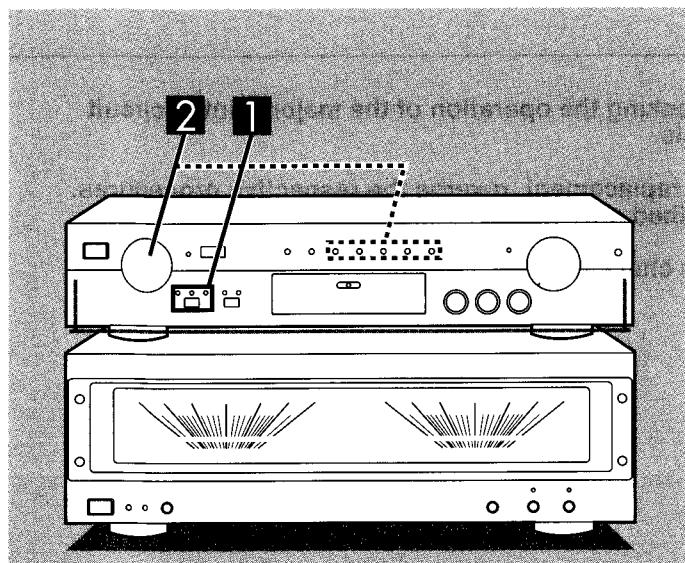
Press [METER LIGHT].

Note

If the unit is turned off while the power meter light is on, a small click will be heard a few seconds later. This is an automatic adjustment by the internal mechanism, not an indication of malfunction.



■ Recording



Connect the tape deck or MD deck to either of the "REC (OUT)" (TAPE 1 or TAPE 2/MD) terminals on the back of the unit.

- 1** Press [TAPE MONITOR] so that the "SOURCE" indicator lights up.
- 2** Turn [SELECTOR] to select the source to be recorded.
 AUX: Equipment connected to the AUX terminal
 DVD: DVD player
 CD: CD player (or CD changer)
 TUNER: Tuner
 PHONO: Turntable
- 3** Begin recording on tape deck or MD deck.
 Follow your equipment's operating instructions.
- 4** Begin the source to be recorded.

Note

Some DVD players need special settings before recording. See the DVD player's operating instructions for details.

Recording between TAPE 1 and TAPE 2/MD

You can record from TAPE 1 to TAPE 2/MD and vice versa.

From TAPE 1 to TAPE 2/MD

- ① Press [TAPE MONITOR] so "SOURCE" lights.
- ② Turn [SELECTOR] so "TAPE 1" lights.
- ③ Start recording on the recording deck and playback on the playback deck.

From TAPE 2/MD to TAPE 1

In step ②, turn [SELECTOR] so "TAPE 2/MD" lights.

To check a recording

A

With a tape deck with 3 heads, it is possible to monitor the sound recorded.

Press [TAPE MONITOR] to select "TAPE 1" or "TAPE 2/MD" and set the monitor switch on the tape deck to "TAPE".

TAPE 1: To monitor the deck connected to the TAPE 1 terminals.
TAPE 2/MD: To monitor the deck connected to the TAPE 2/MD terminals.

Note

When finished using the tape monitor, press [TAPE MONITOR] again to select "SOURCE".

6 Operation Checks and 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 item from the following index when checks or replacement are required.

● Contents

■ Checking Procedures for each P.C.B.

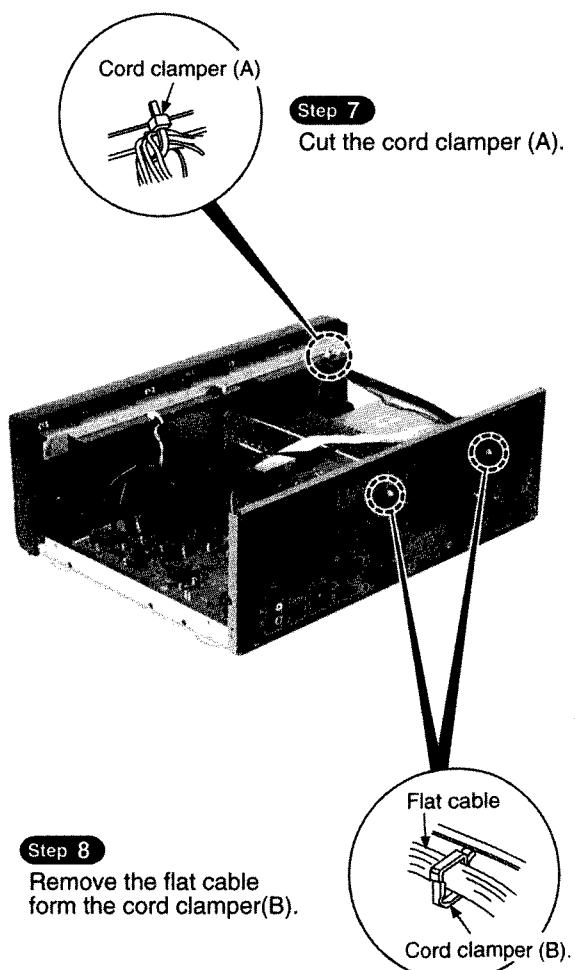
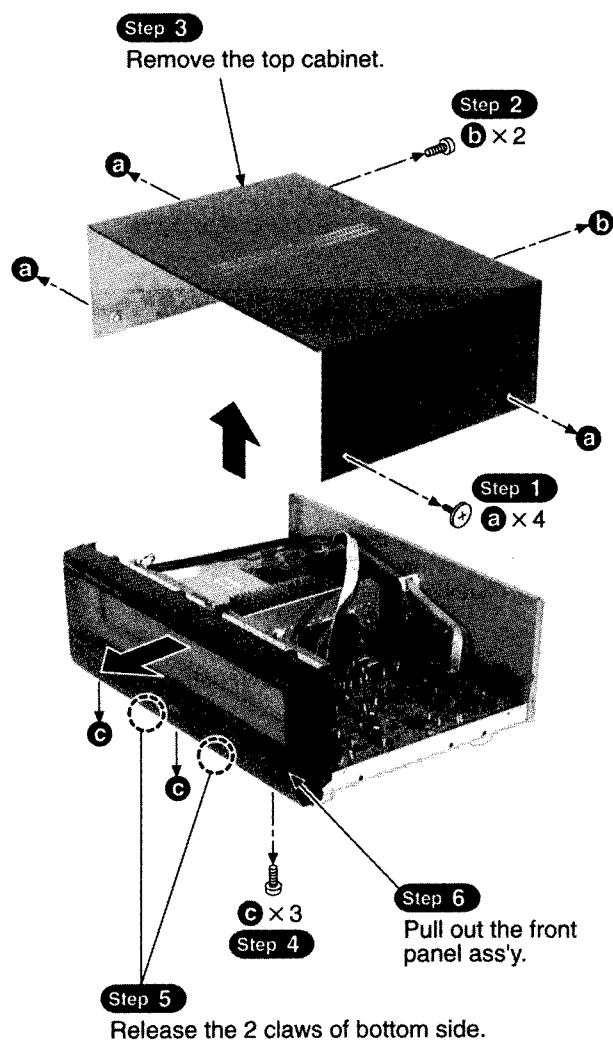
1. Checking for the main P.C.B..

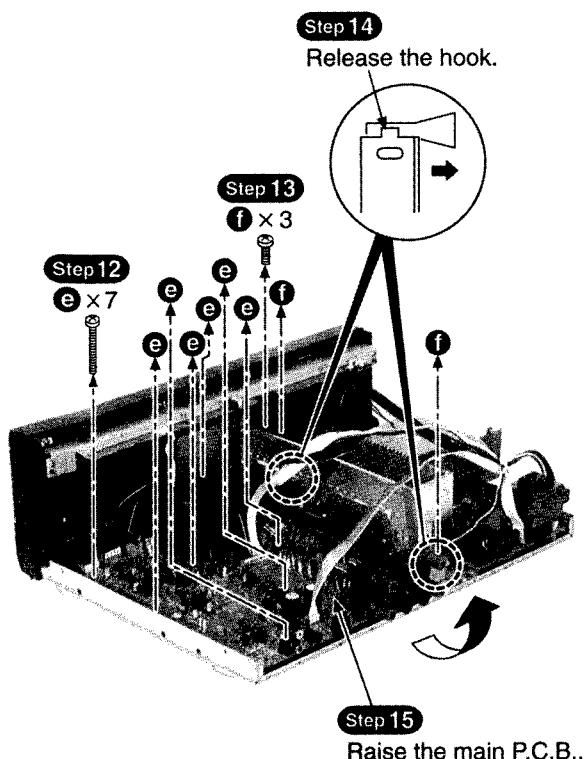
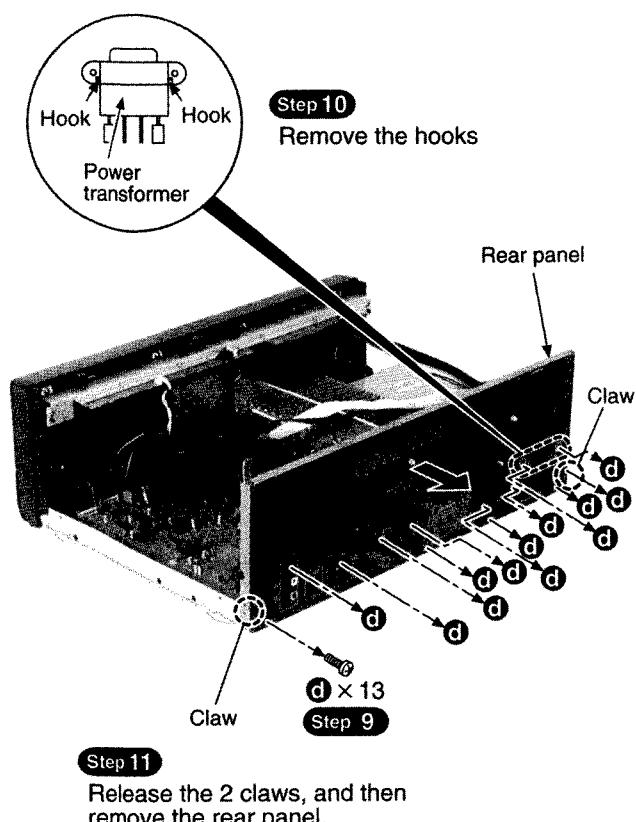
■ Main Component Replacement Procedures

1. Replacement for the meter ass'y.
2. Replacement for the power IC and regulator transistor.
3. Replacement for the fan motor.

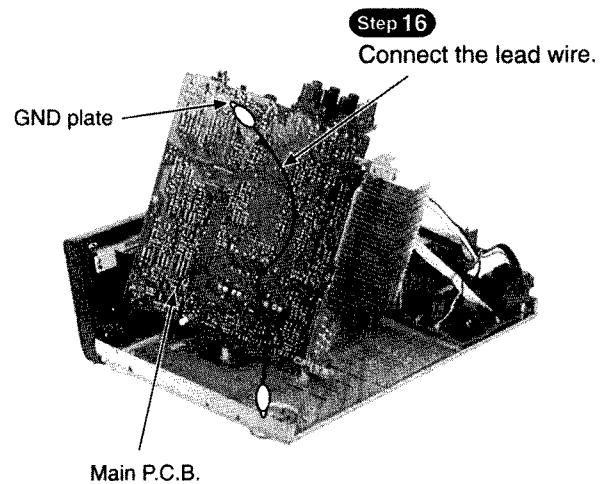
■ Checking Procedures for each P.C.B.

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





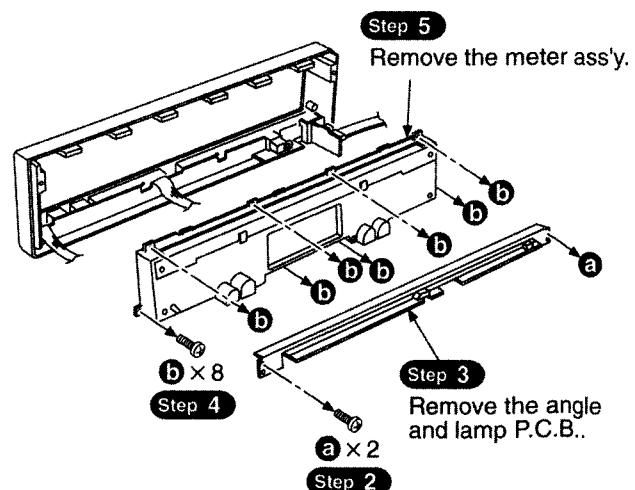
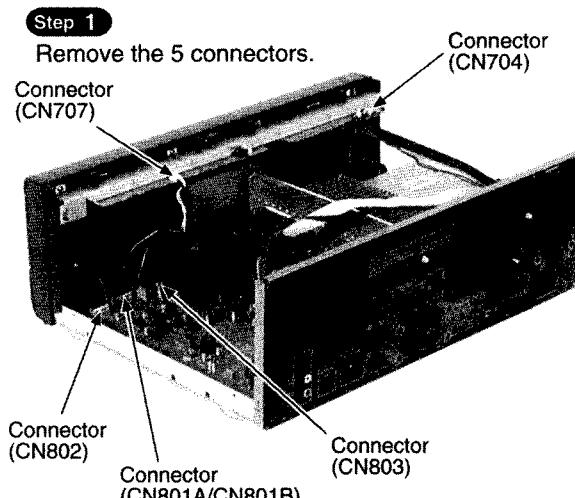
• Check the main P.C.B. as shown below.



■ Main Component Replacement Procedures

1. Replacement for the meter ass'y

- Follow the **Step 1** ~ **Step 7** of the item 1 in checking procedure for each P.C.B..

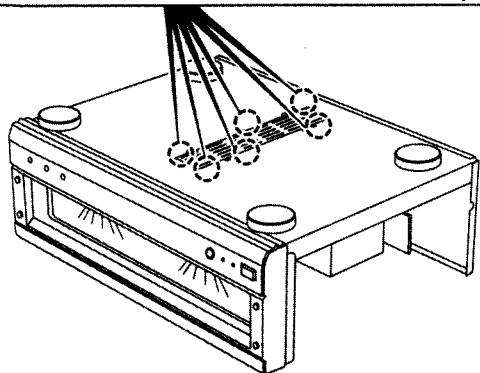
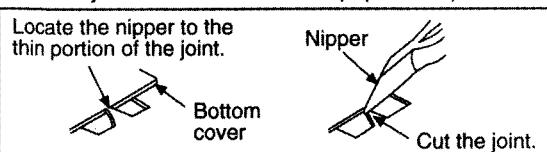


2. Replacement for the power IC and regulator transistor

- Follow the **Step 1** ~ **Step 3** of the item 1 in checking procedure for each P.C.B..

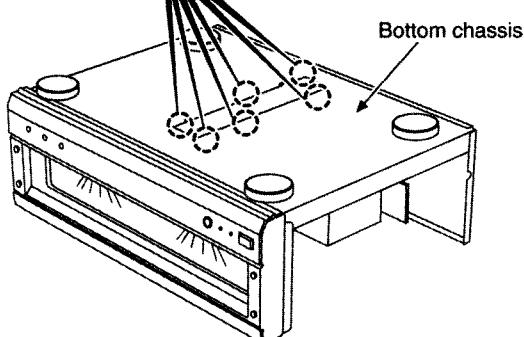
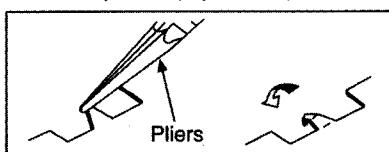
Step 1

Cut the joints as shown below. (6 portions)



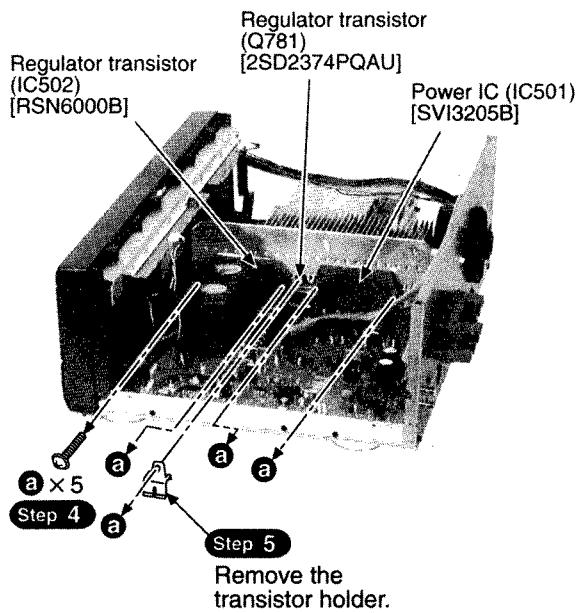
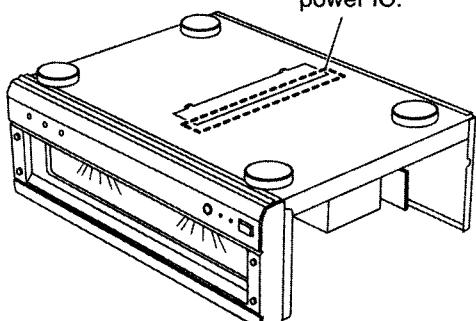
Step 2

Fold the joints. (6 portions)



Step 3

Unsolder the terminals of power IC.

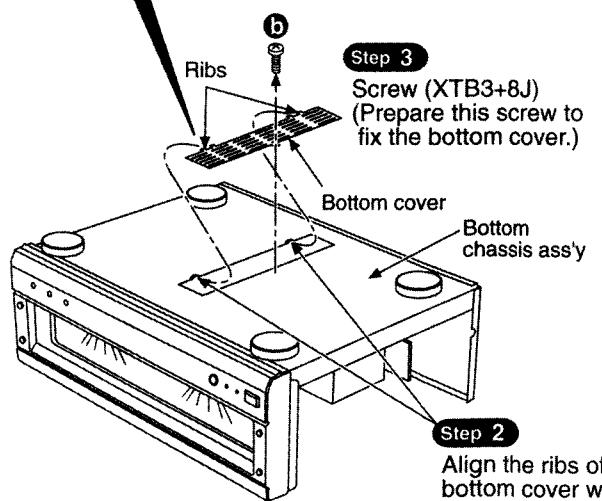
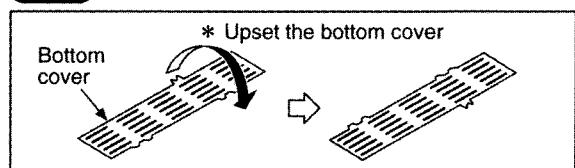


NOTE

- 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 and regulator transistor).
- Tighten enough the screws (**a**) after replacing the power IC and regulator transistor. Otherwise, the heat radiation works little.

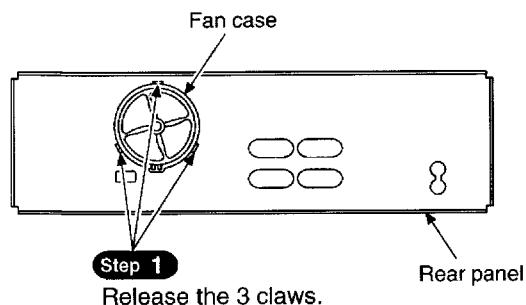
Installation of the bottom cover after replacement

Step 1

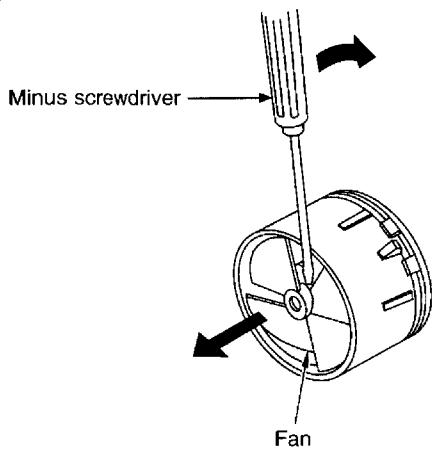


3. Replacement for the fan motor

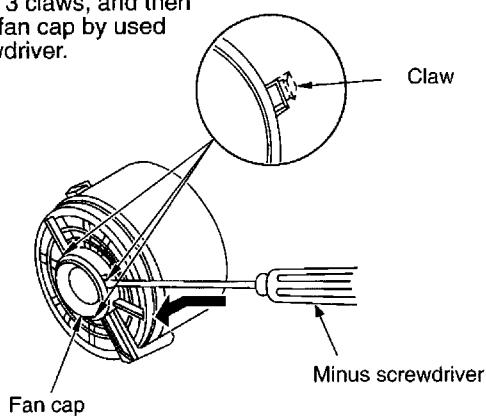
- Follow the Step 1 ~ Step 3 , Step 8 ~ Step 11 of the item 1 in checking procedure for each P.C.B..



- Step 2**
Insert a minus screwdriver at the foot of the fan.

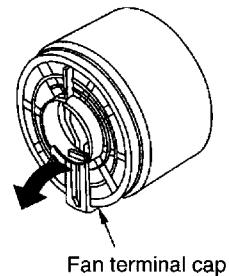


- Step 3**
Release the 3 claws, and then remove the fan cap by used minus screwdriver.



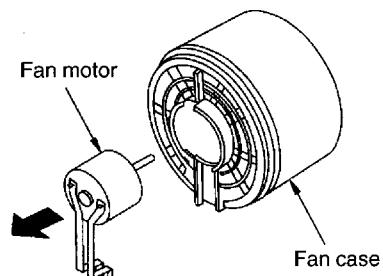
Step 4

- Remove the fan terminal cap in the direction of arrow.



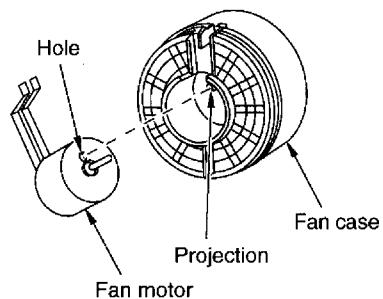
Step 5

- Remove the fan motor from the fan case.

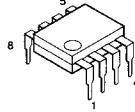
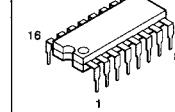
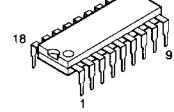
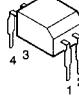
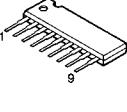
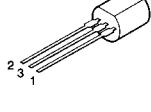
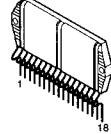
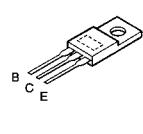
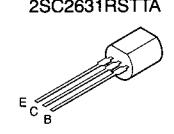
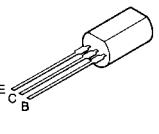
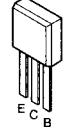
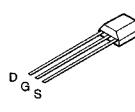
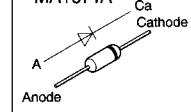
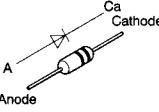
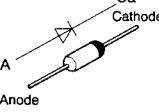
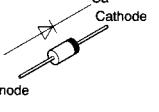
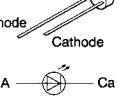
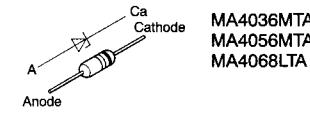
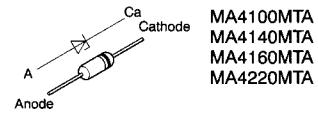


Installation of the fan motor after replacement

- When mounting the motor, align the fan casing's projection with the hole of the fan motor.



7 Type Illustration of ICs, Transistors and Diodes

MS218AP NJM4580DD 	UPD4027BC 	AN7062N 	0N3131R 	BA6138 	AN78L05TA 
RSN6000B SVI3205B 	2SD2374PQAU 	2SA992EFPTA 2SA1123RSTTA 2SC2631RSTTA 	2SC3940AQSTA 2SA1534QRTA 	2SA1309ARTA 2SC3311ARTA UN4111TA UN4215TA 	
2SJ105GRYTA 2SK330GRYTA 	MA165TA MA29WATA MA167TA 	MA167ATA 1SS291TA 	1SR35200TB 	P300DLF 	SLR-305VC 
 MA4036MTA MA4056MTA MA4068LTA		 MA4100MTA MA4140MTA MA4160MTA MA4220MTA			

8 Schematic Diagram

8.1. Schematic Diagram Notes

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

Notes:

S801:	Unit on/off switch (/)
S802:	Speaker select switch (SPEAKER A)
S803:	Speaker select switch (SPEAKER B)
S804:	Power meter light switch (METER LIGHT)
VR909:	Power meter adjustment VR (L ch)
VR910:	Power meter adjustment VR (R ch)

- 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 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 manufacturers 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.

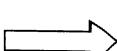
- Voltage and signal line



: Positive voltage line

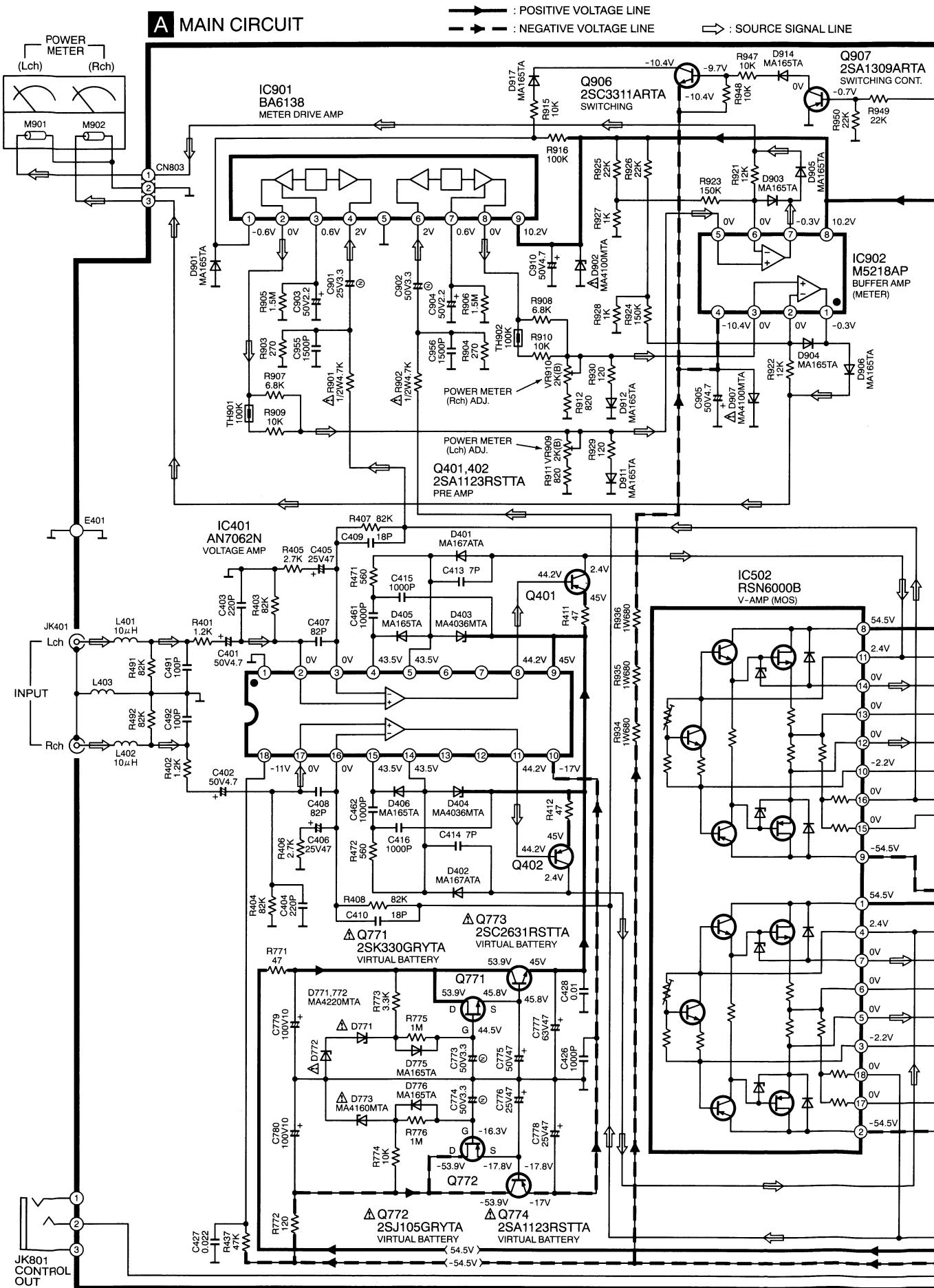


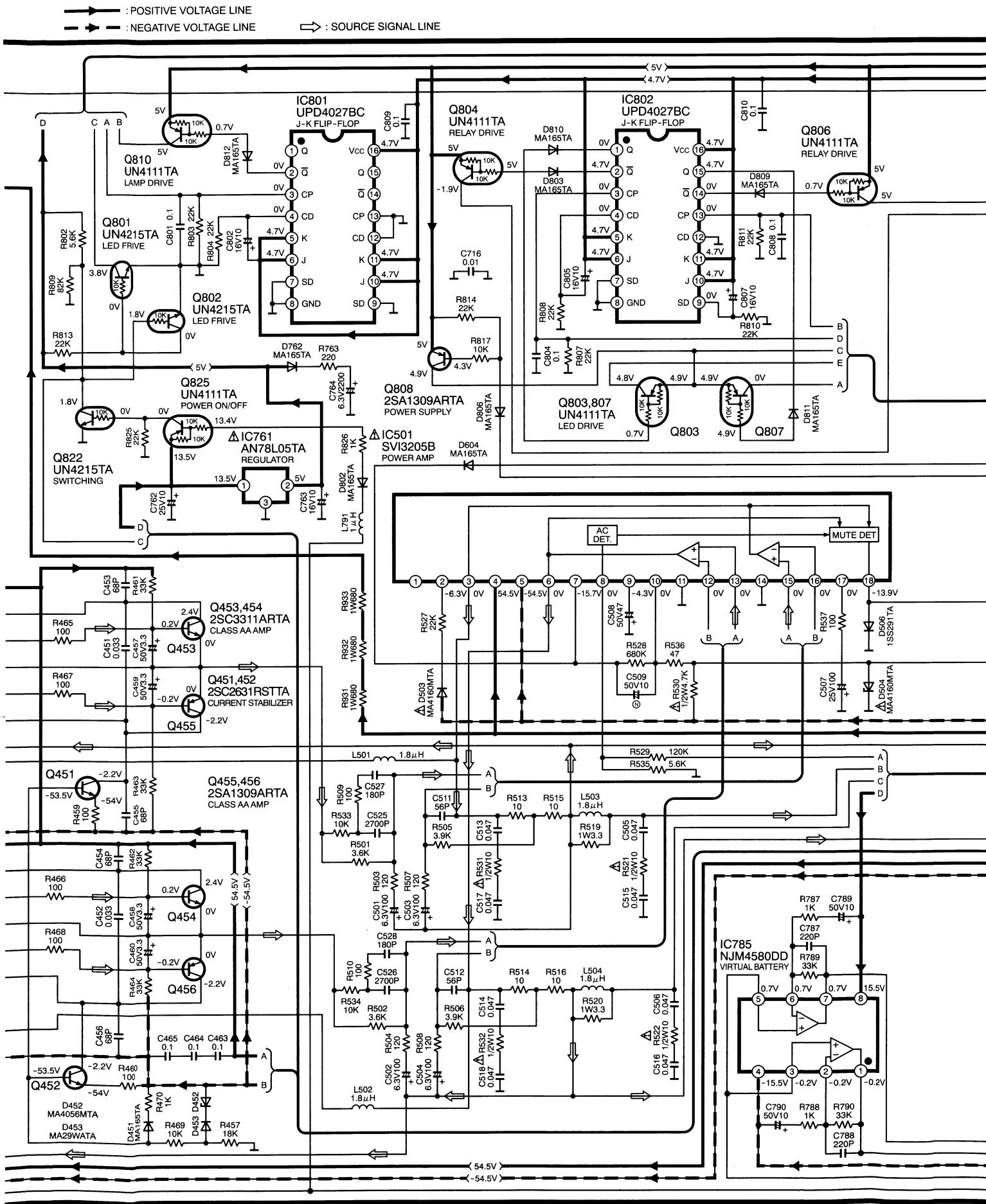
: Negative voltage line



: Source signal line

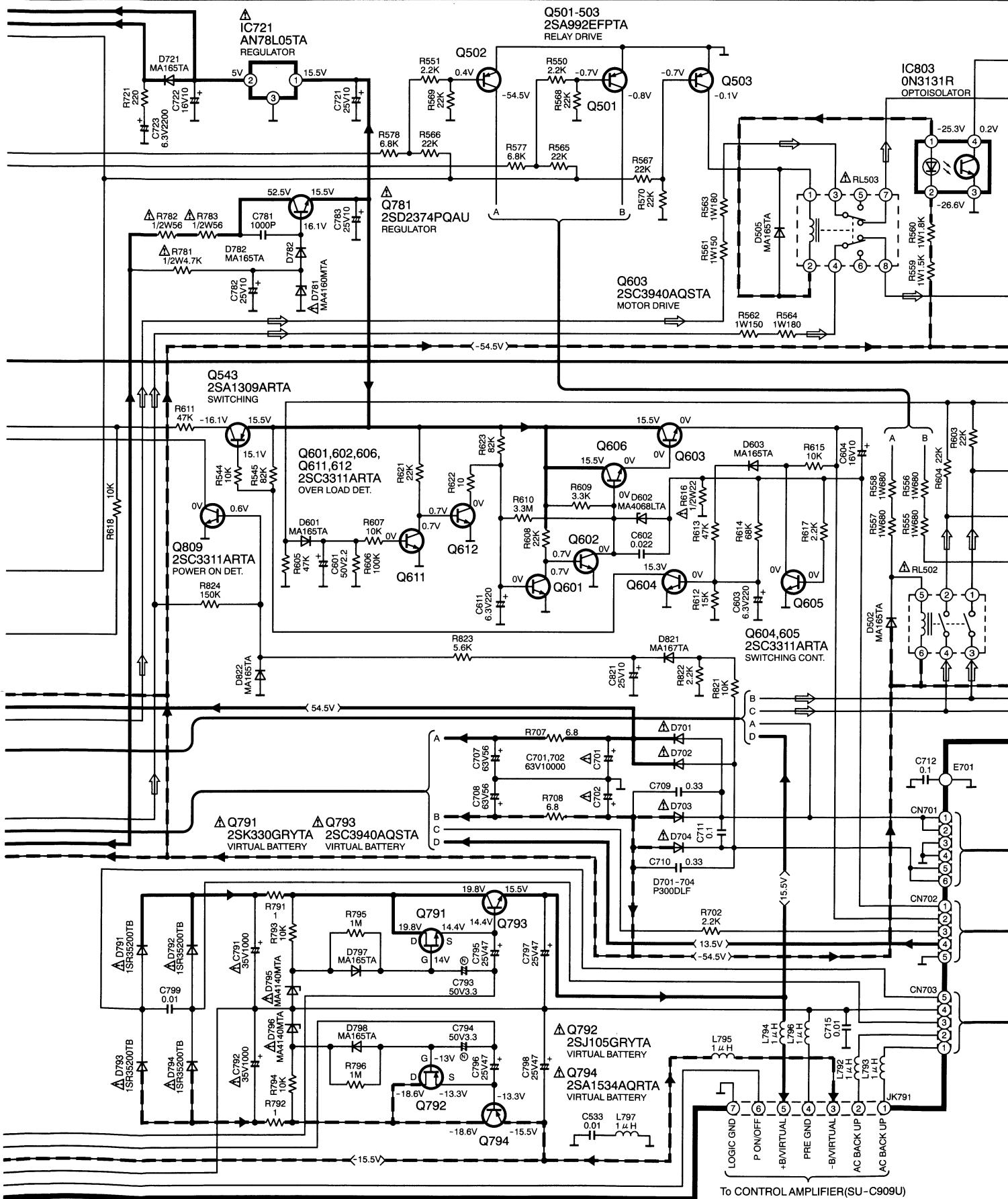
8.2. Schematic Diagram

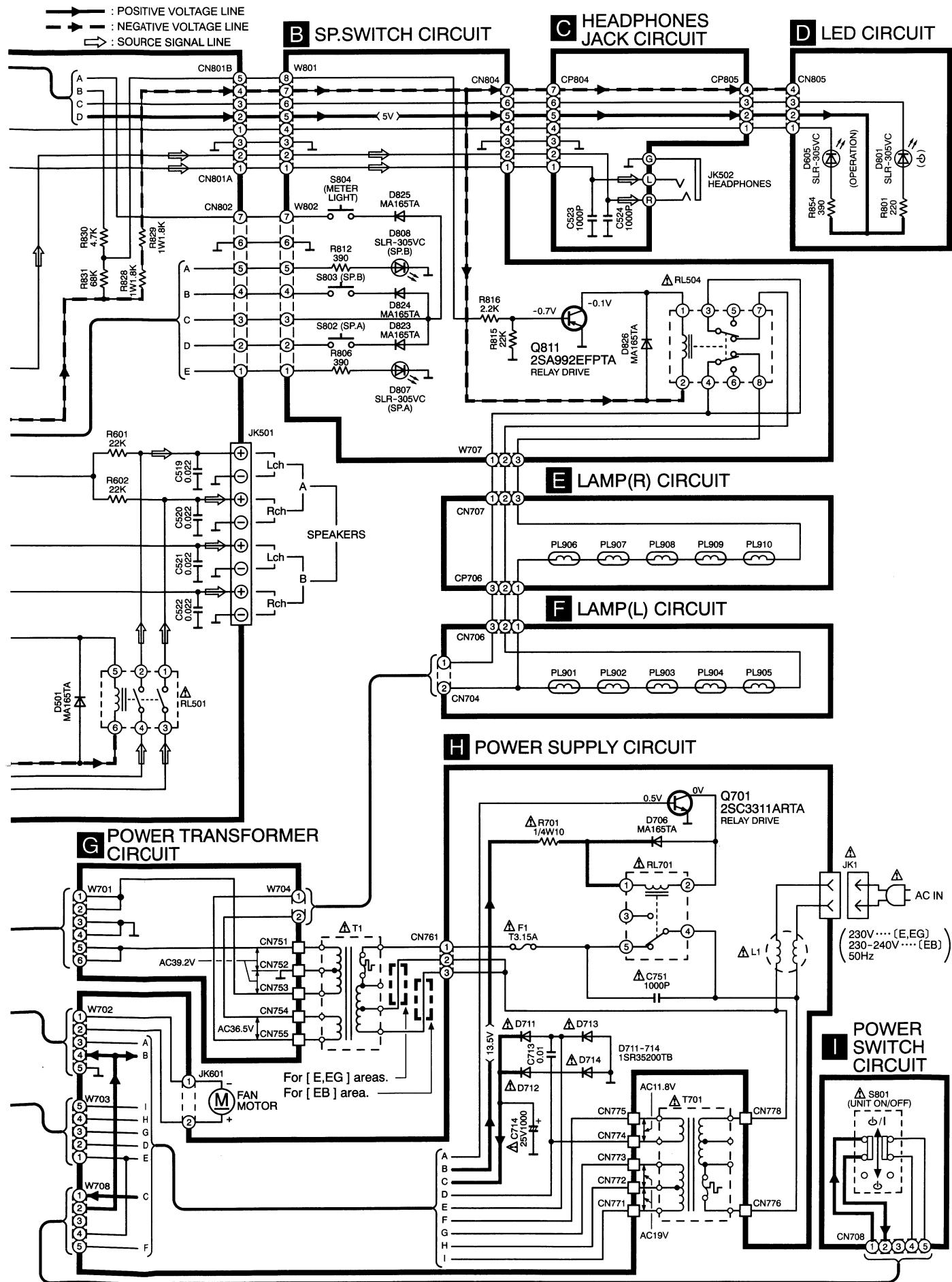




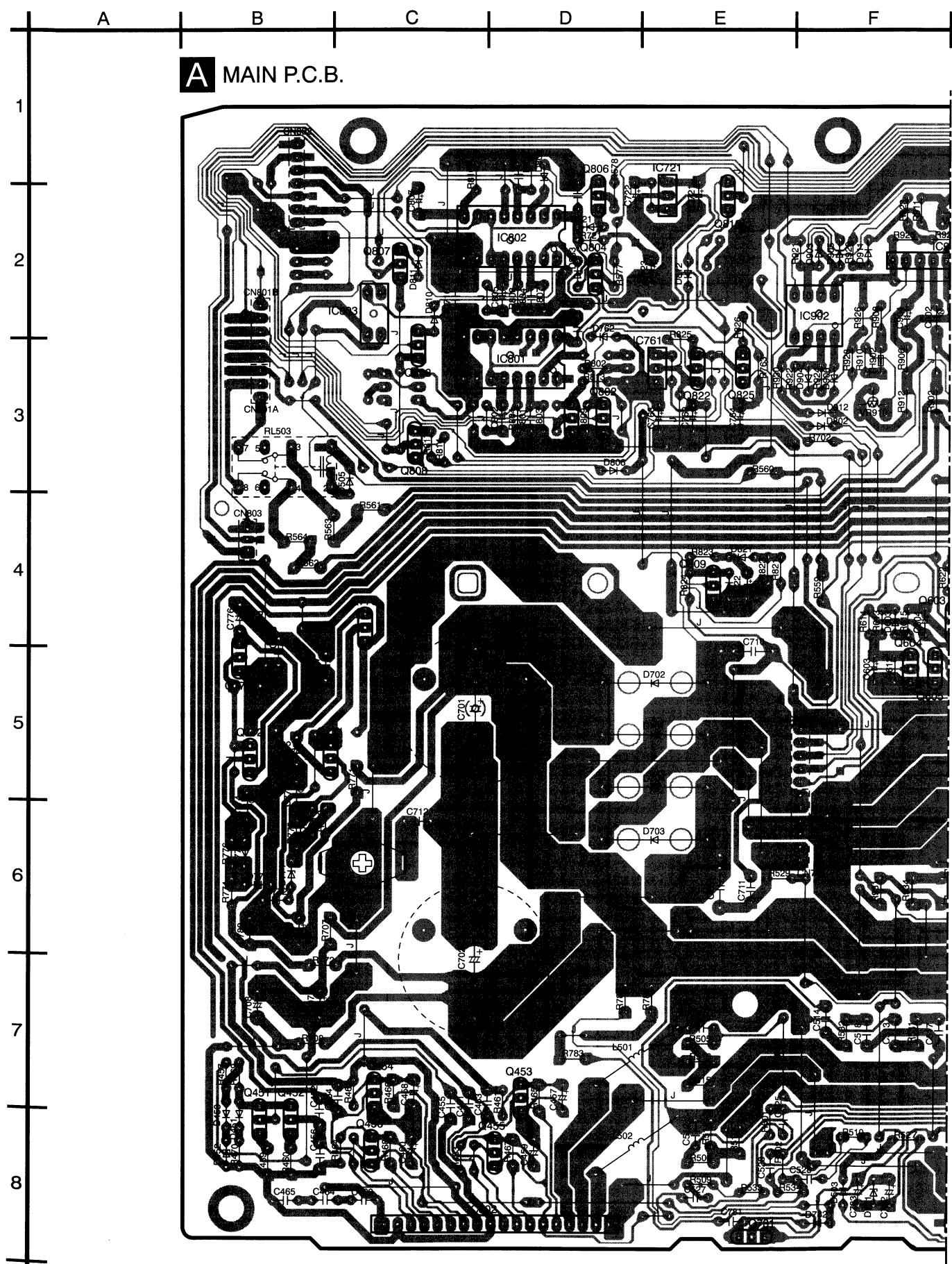
A MAIN CIRCUIT

→ : POSITIVE VOLTAGE LINE
 - → : NEGATIVE VOLTAGE LINE
 ⇝ : SOURCE SIGNAL LINE

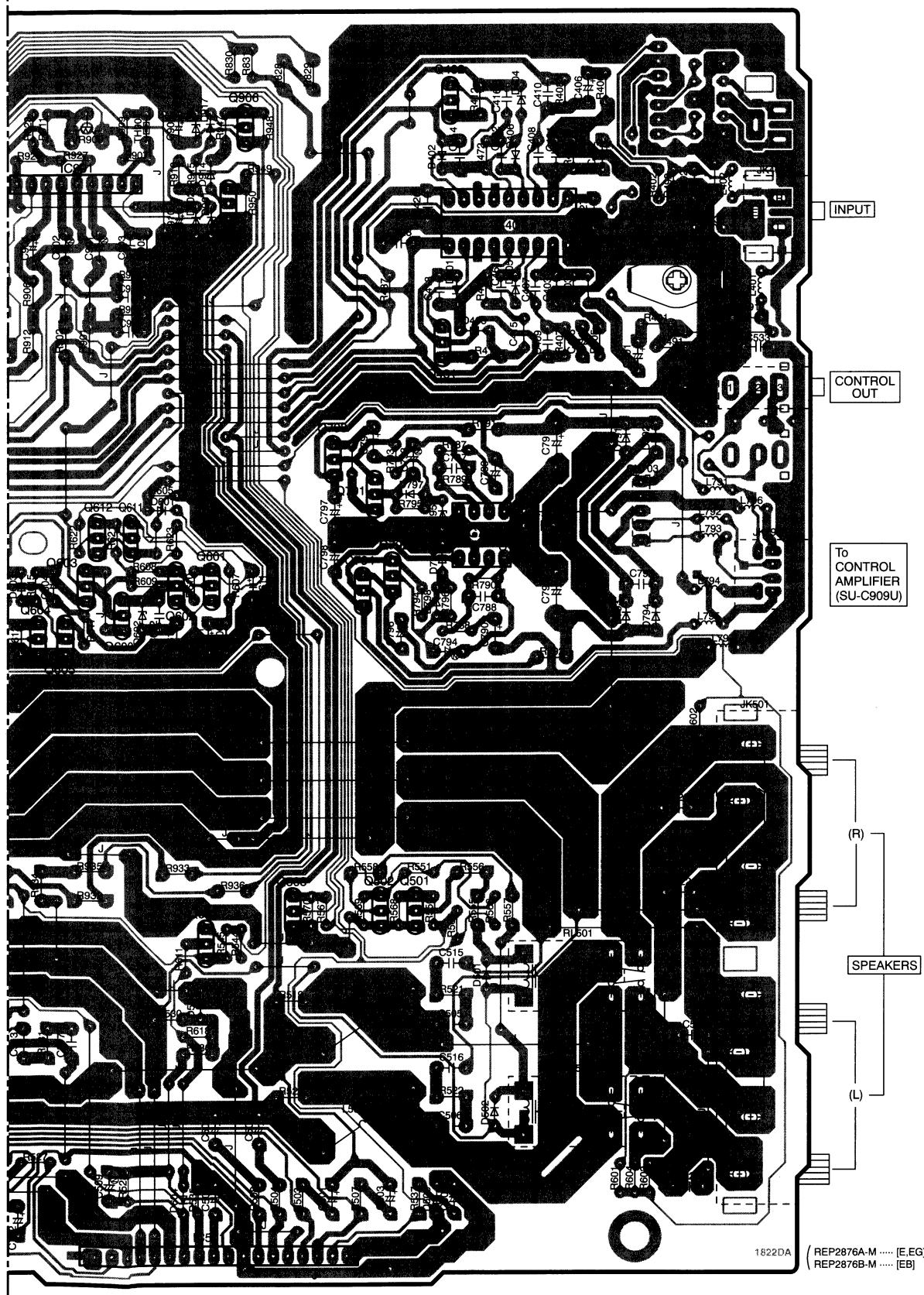




9 Printed Circuit Board Diagram

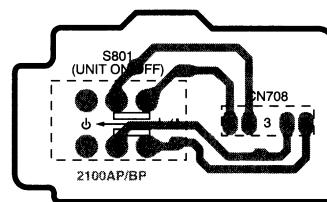


G H I J K L



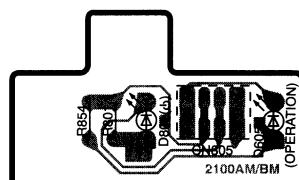
+ G H I J K L -

I POWER SWITCH P.C.B.



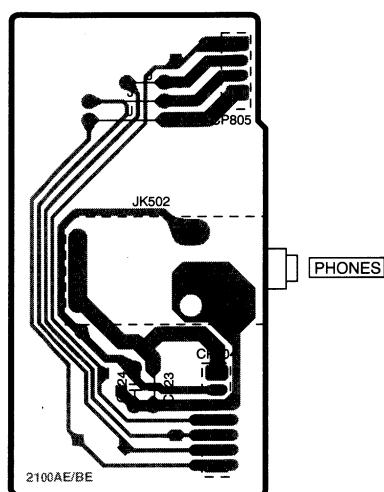
(REP2877AB-S [E,EG])
(REP2877BB-S [EB])

D LED P.C.B.



(REP2877AB-S [E,EG])
(REP2877BB-S [EB])

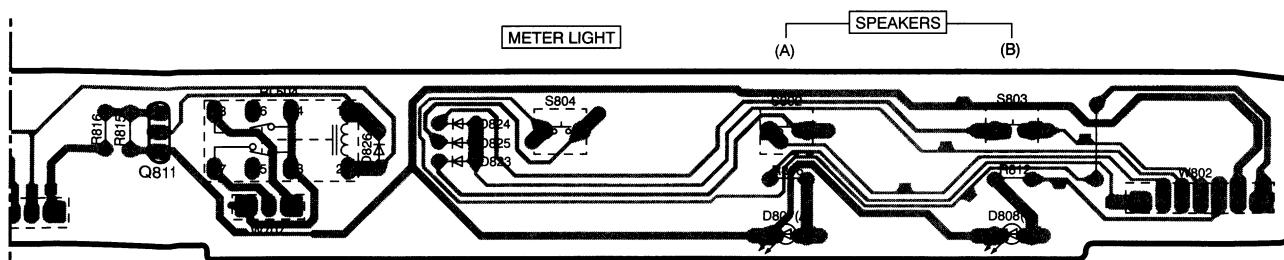
C HEADPHONES JACK P.C.B.

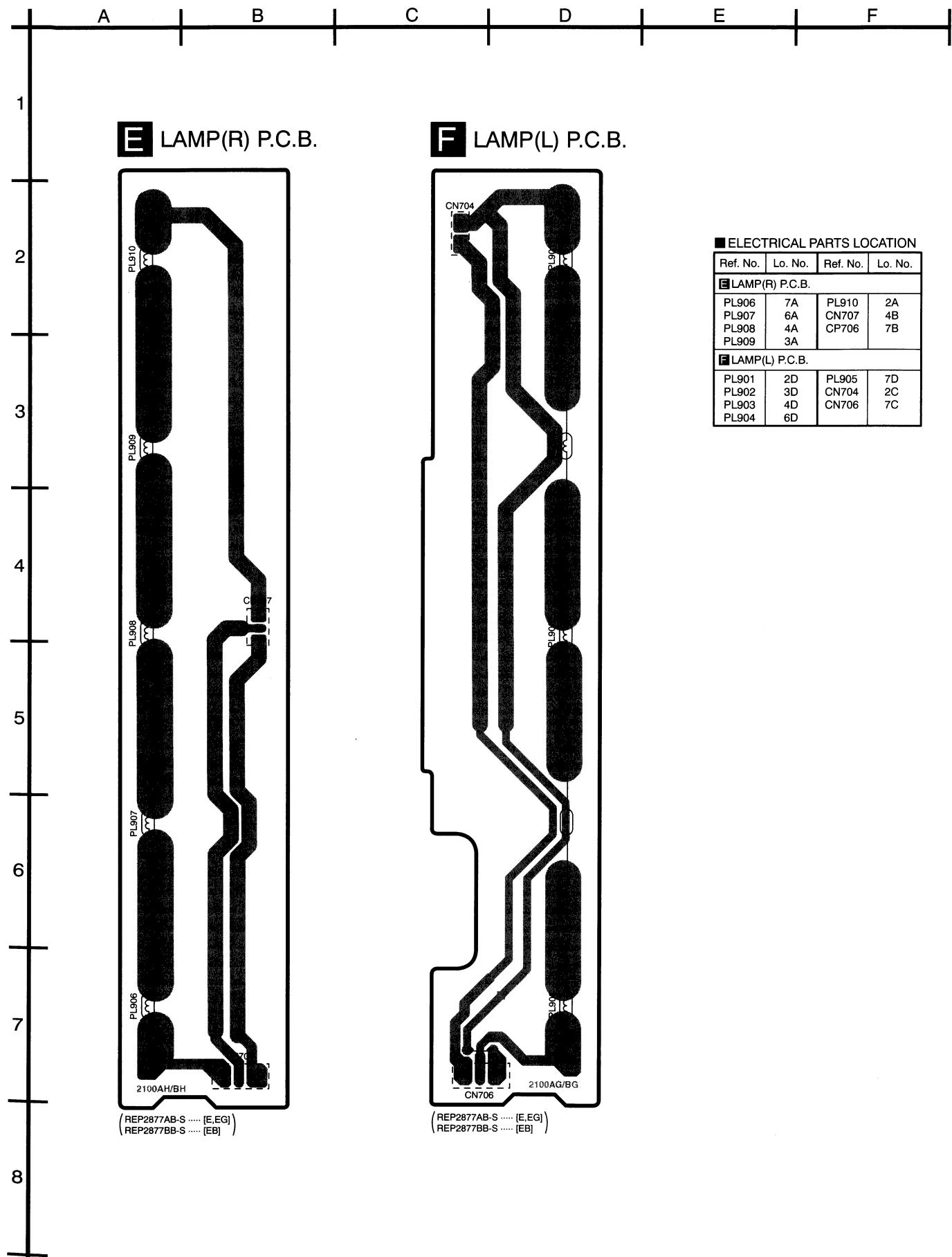


(REP2877AB-S [E,EG])
(REP2877BB-S [EB])

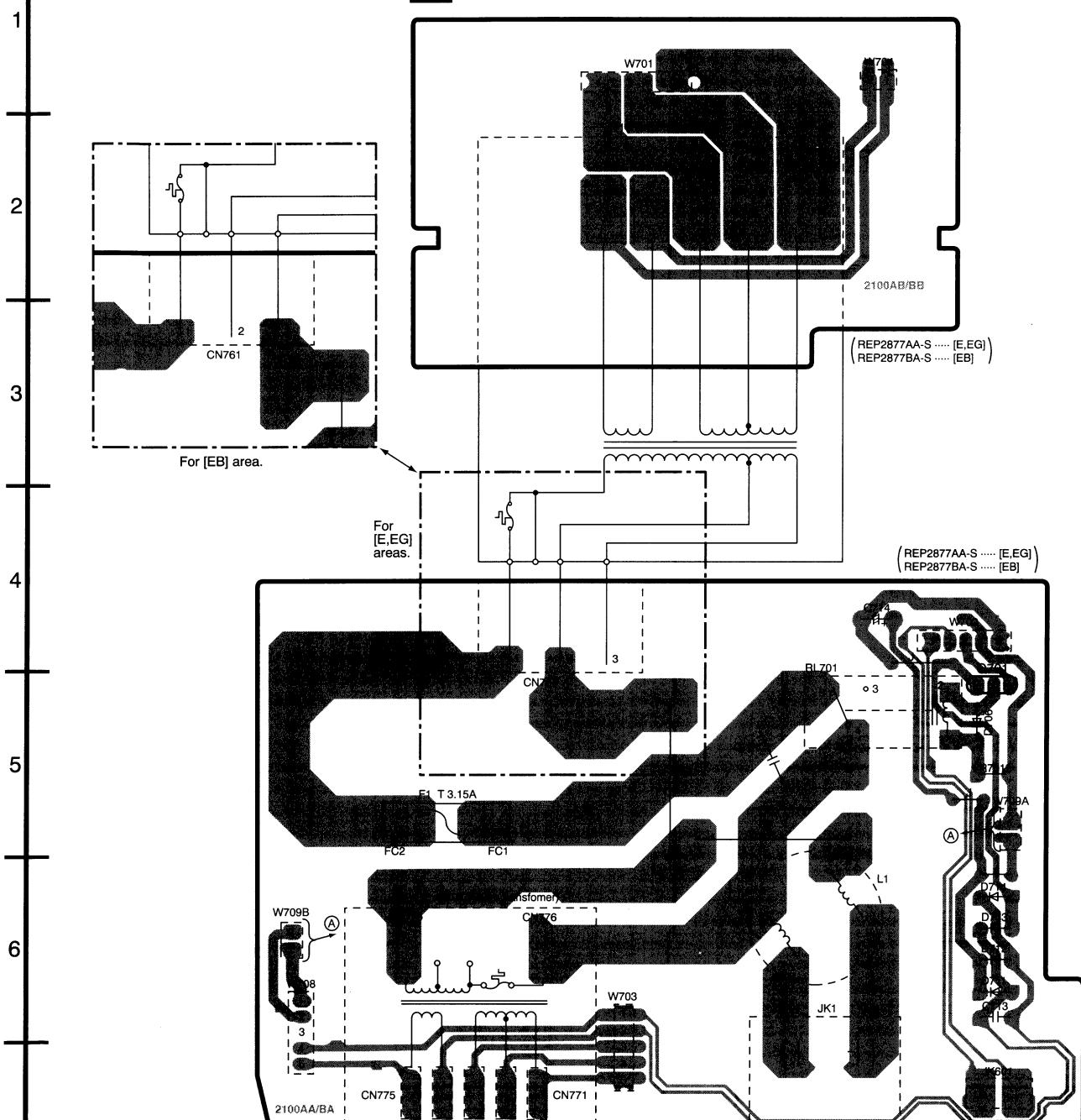
ELECTRICAL PARTS LOCATION

Ref. No.	Lo. No.	Ref. No.	Lo. No.
C HEADPHONES JACK P.C.B.			
JK502	5H	C523	6H
CP804	6H	C524	6H
CP805	4H		
D LED P.C.B.			
D605	3K	R801	3J
D801	3K	R854	3J
CN805	3K		
I POWER SWITCH P.C.B.			
S801	2J	CN708	2K



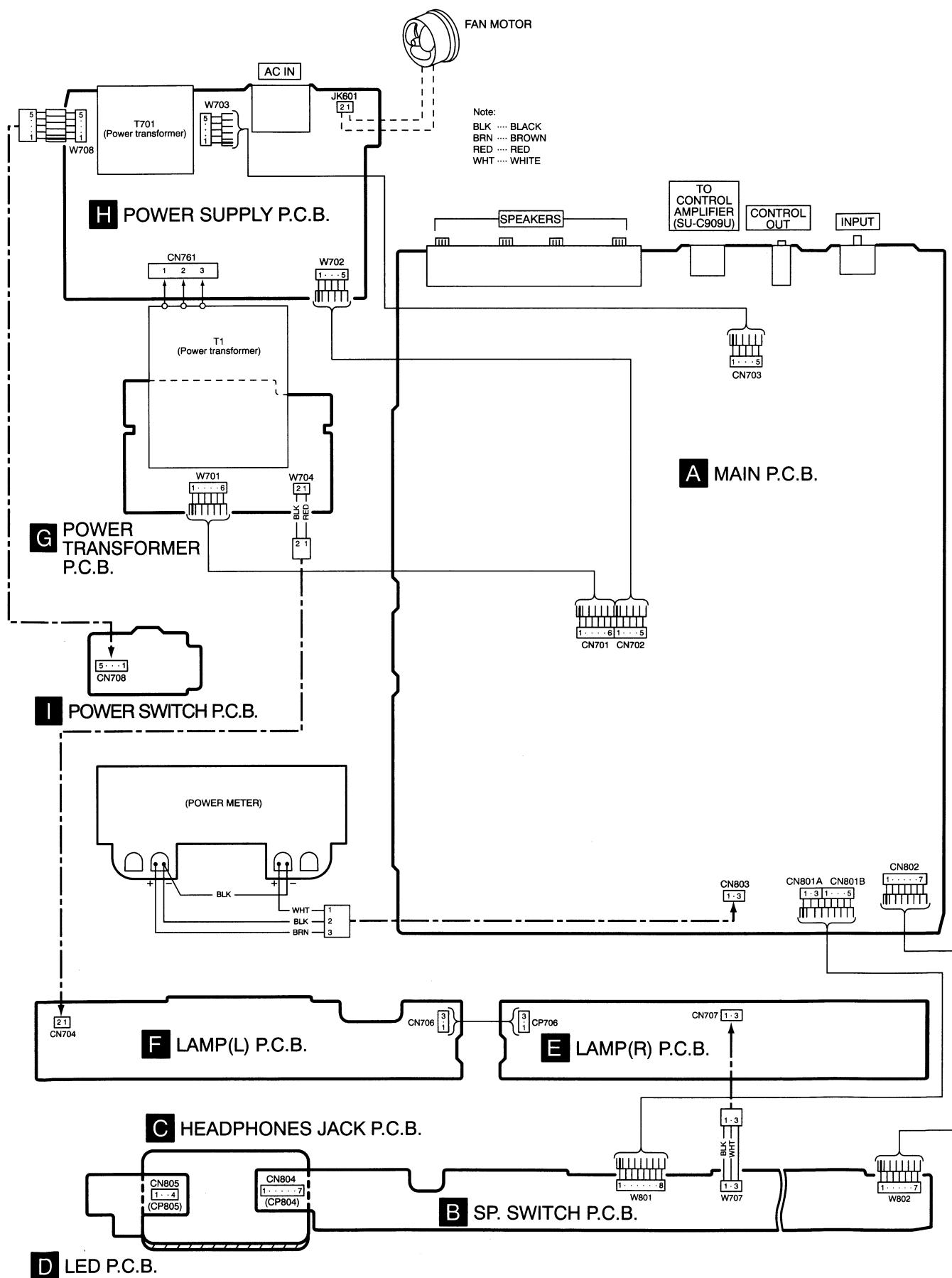


A B C D E F

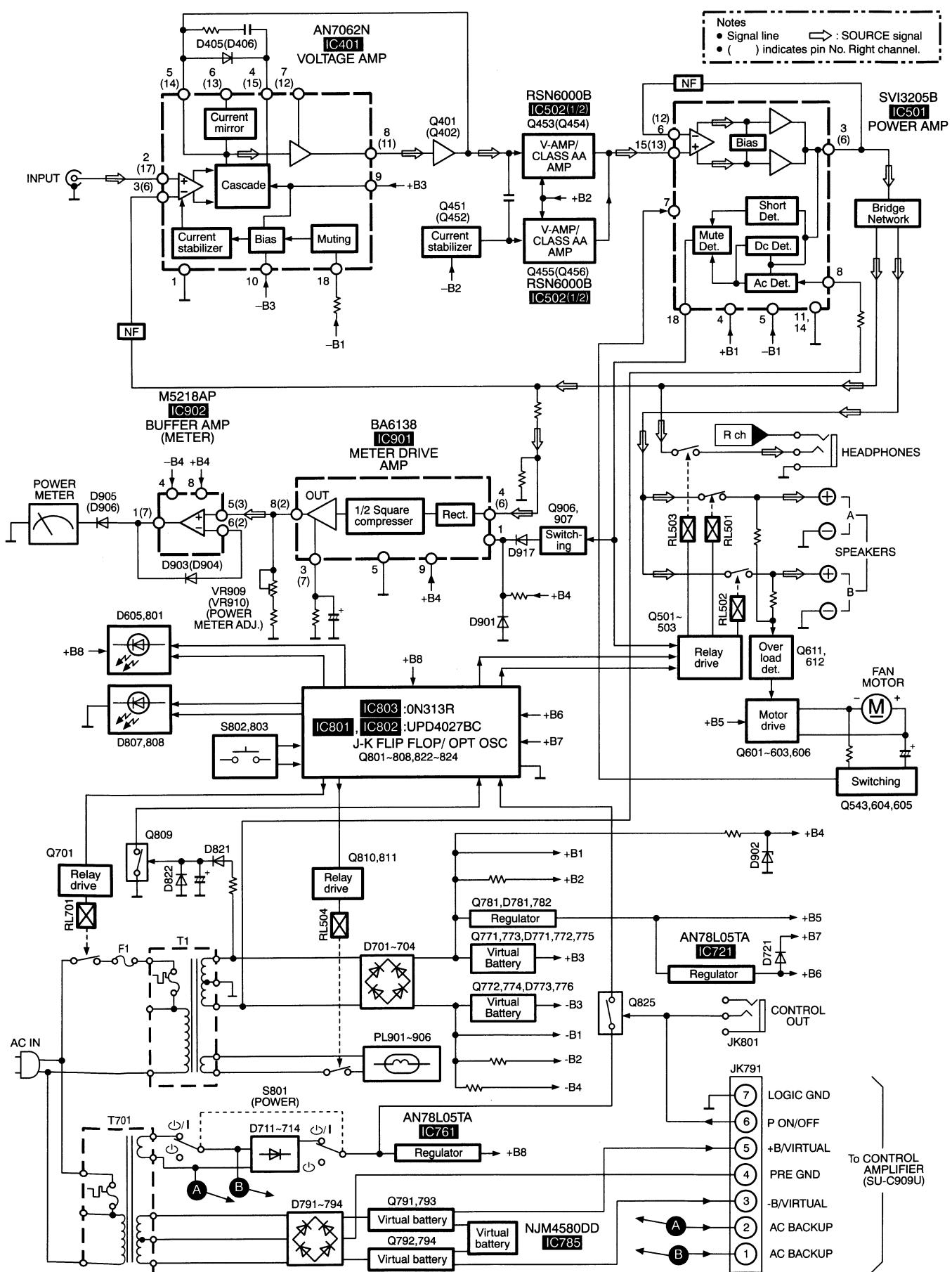
G POWER TRANSFORMER P.C.B.**H POWER SUPPLY P.C.B.**(230V 50Hz [E,EG])
(230-240V 50Hz [EB])**ELECTRICAL PARTS LOCATION**

Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.
G POWER TRANSFORMER P.C.B.																	
T1	2D	CN751	2E	CN752	2D	CN753	2D	CN754	2D	CN755	2D	W701	1D	W704	1E		
H POWER SUPPLY P.C.B.																	
0701	5F	D713	6F	L1	6E	CN772	7C	CN776	6C	FC1	5C	W708	6B	C713	6F		
D706	5F	D714	6F	RL701	5E	CN773	7C	CN778	6C	FC2	5B	W709A	5F	C714	4E		
D711	6F	T701	6C	CN761	4C	CN774	7C	JK1	7E	W702	4F	W709B	6B	C751	5E		
D712	6F	F1	5C	CN771	7C	CN775	7C	JK601	7F	W703	6D	R701	5F				

10 Wiring Connection Diagram



11 Block Diagram



12 Measurements and Adjustments

12.1. Measuring Instruments and Special Tools

- AC electronic voltmeter (AC EVM)
- AF oscillator

12.2. Power Meter Adjustment

1. Test equipment connection is shown in Fig.1
2. Before turning ON the set, adjust VR909 (L ch) and VR910 (R ch) to mechanical center position. Shown in Fig.2
3. Turn the power ON, make sure that the power meter is mechanically adjusted to 0 point. Shown in Fig.3
4. Apply a 1 kHz signal to the input terminal so that the output voltage of speaker terminal is 8.9 - 9.0 V. (Adjust the signal level with the attenuator of AF oscillator.)
5. Adjust VR909 (L ch) and VR910 (R ch) so that the power meter indicates 10 W. Shown in Fig.4

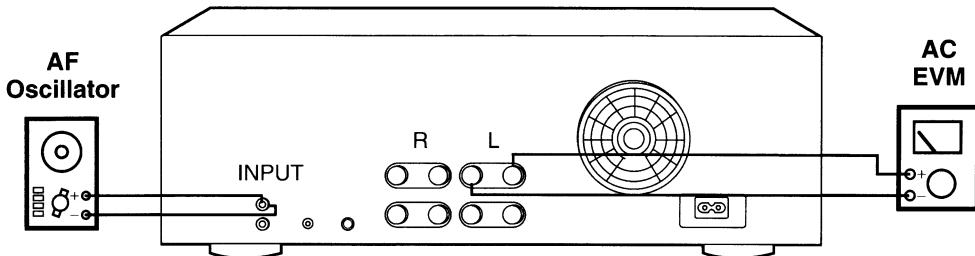


Fig.1

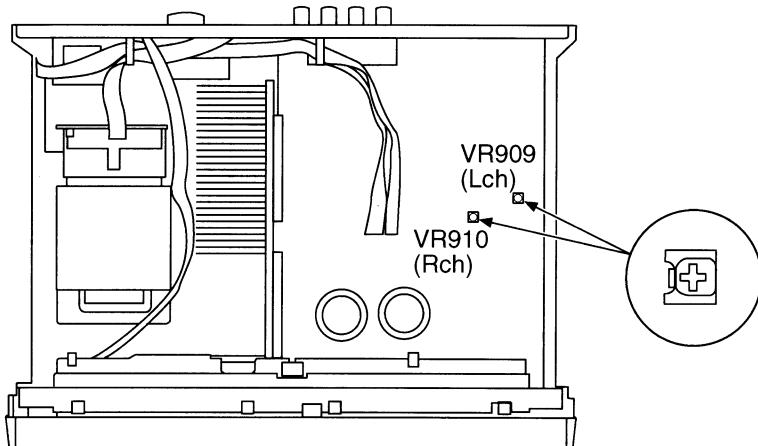


Fig.2

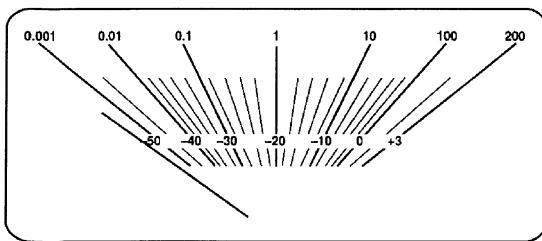


Fig.3

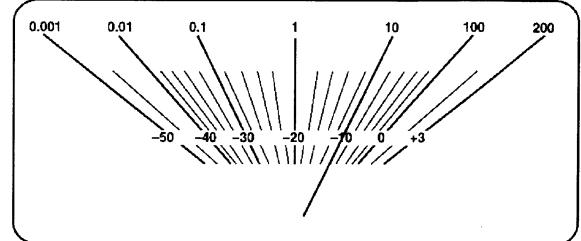


Fig.4

13 Replacement Parts List

Notes:

- Important safety notice:

Components identified by  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 manufactures specified parts shown in the parts list.

- The <IA> <IB> <IC> <ID> marks in Remarks indicate language of instruction manual.

<IA> : English, Spanish, Swedish, Russian, Polish, Czech

<IB> : English

<IC> : German, Italian, French

<ID> : Netherlandish, Danish

- The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)

The marking (RTL) indicates that Retention Time is Limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

- All parts are supplied by MESA.

Ref. No.	Part No.	Part Name & Description	Pcs.	Remarks
1	RKM0041A-K2	TOP COVER	1	
2	SNE2129-3	SCREW	4	
3	XTBS3+8JFZ1	SCREW	2	
4	REM0020-1	FAN UNIT	1	
4-1	MDN-4RB4MRC	FAN MOTOR	1	
4-2	RMQ0208-K	COVER	1	
4-3	RMQ0209-K	CASE	1	
4-4	RMQ0212-K	FAN TERMINAL	1	
4-5	SHE232-1	FAN	1	
4-6	SUS271	SPRING	1	
5	RKA0053-A	FOOT	4	
5-1	RMG0270-K	RUBBER	4	
6	RMG0332-K	RUBBER	2	
7	RMN0217-1	PCB HOLDER	1	
8	REX0741	WIRE ASS'Y	1	
9	RGB0031-A	TECHNICS BADGE	1	
10	RGG0166A-K	PANEL	1	
11	RGG0167C-K1	PANEL	1	
12	RGL0301-Q	PANEL LIGHT A	1	
13	RGL0302-Q	PANEL LIGHT B	1	
14	RGP0720-K	PANEL	1	
15	RGU0890-1K	BUTTON, POWER	1	
16	RGU1271-1K	BUTTON, SPEAKER	3	
17	RHD26016	SCREW	1	
18	RHD26033	SCREW	4	
19	RKW0584-Q	WINDOW	1	
20	RMG0509-K	CAP	4	
21	RSE0006D	POWER METER	1	
22	XTBS26+8J	SCREW	21	
23	XTBS3+8JFZ1	SCREW	16	
24	XTB3+20JFZ	SCREW	9	
25	XTB3+6G	SCREW	4	
26	XTB3+8JFZ	SCREW	9	
27	XTW3+15T	SCREW	5	

Ref. No.	Part No.	Part Name & Description	Pcs.	Remarks
28	REZ1232	WIRE ASS'Y	1	
29	REZ1263	WIRE ASS'Y	1	
30	REZ1233	WIRE ASS'Y	1	
31	RMR1110-K	TERMINAL COVER	8	
A1	RAK-SUA11WH	REMOTE CONT. TRANSMITTER	1	
A1-1	RKK0123-K	BATTERY COVER	1	
A2	RJA0019-X	AC POWER SUPPLY CORD	1	(E, EG)
A2	RJA0053-2X	AC POWER SUPPLY CORD	1	(EB)
A3	RJL6D001B10	DIN CORD	1	
A4	SJP2276	PIN CORD	1	
A5	RQCB0169	SERVICE CENTER LIST	1	
A6	RQA0117	WARRANTY CARD	1	
A7	RQT5167-E	OPERATING INSTRUCTIONS	1	(E)<IA>
A8	RQT5170-B	OPERATING INSTRUCTIONS	1	(EB)<IB>
A9	RQT5168-D	OPERATING INSTRUCTIONS	1	(EG)<IC>
A10	RQT5169-H	OPERATING INSTRUCTIONS	1	(EG)<ID>
C401,02	ECA1HPKS4R7B	50V 4.7U	2	
C403,04	ECKT1H221KB	50V 220P	2	
C405,06	ECA1EPKS470B	25V 47U	2	
C407,08	ECBT1H820KB5	50V 82P	2	
C409,10	ECCR2H180JC5	500V 18P	2	
C413,14	ECCV2H070D	500V 7P	2	
C415,16	ECBT1H102KB5	50V 1000P	2	
C426	ECQB1H102JF3	50V 1000P	1	
C427	ECQB1H223JF3	50V 0.022U	1	
C428	ECHR1H103JZ3	50V 0.01U	1	
C451,52	ECKR1H333ZF5	50V 0.033U	2	
C453-56	ECCV2H680K	500V 68P	4	
C457-60	RCE1HKA3R3BG	50V 3.3U	4	
C461,62	ECBT1H102KB5	50V 1000P	2	
C463-65	ECBT1H104ZF5	50V 0.1U	3	
C491,92	ECKT1H101KB	50V 100P	2	
C501-04	ECA0JPXS101	6.3V 100U	4	
C505,06	ECQV1H473JM3	50V 0.047U	2	
C507	ECA1EM101	25V 100U	1	
C508	ECA1HM470	50V 47U	1	
C509	ECEA1HN100SB	50V 10U	1	
C511,12	ECBT1H560J5	50V 56P	2	
C513-18	ECQV1H473JM3	50V 0.047U	6	
C519-22	ECQB1H223JF3	50V 0.022U	4	
C523,24	ECBT1H102KB5	50V 1000P	2	
C525,26	ECBT1C272KR5	16V 2700P	2	
C527,28	ECBT1H181KB5	50V 180P	2	
C533	ECBT1C103NS5	16V 0.01U	1	
C601	ECEA1HKS2R2	50V 2.2U	1	
C602	ECBT1E223ZF	25V 0.022U	1	
C603	ECEA1AKS221	6.3V 220U	1	
C604	RCE1CKA100BG	16V 10U	1	
C611	ECEA1AKS221	6.3V 220U	1	
C701,02	ECETX1J103WZ	63V 10000U	2	
C707,08	ECA1JPXH560E	63V 56U	2	
C709,10	ECQE2334KFW	250V 0.33U	2	
C711	ECQE2104KF3	250V 0.1U	1	
C712	ECBT1H104ZF5	50V 0.1U	1	
C713	ECKR1H103ZF5	50V 0.01U	1	
C714	ECA1EM102	25V 1000U	1	
C715,16	ECBT1C103NS5	16V 0.01U	2	
C721	ECEA1EKS100	25V 10U	1	
C722	RCE1CKA100BG	16V 10U	1	
C723	ECA0JM222	6.3V 2200U	1	
C751	ECKWRS102MBC	125V 1000P	1	
C762	ECEA1EKS100	25V 10U	1	
C763	RCE1CKA100BG	16V 10U	1	

Ref. No.	Part No.	Part Name & Description	Pcs.	Remarks
C764	ECA0JM222	6.3V 2200U	1	
C773, 74	ECA1HBX3R3B	50V 3.3U	2	
C775	ECA1HPXS470B	50V 47U	1	
C776	ECA1EPXS470B	25V 47U	1	
C777	ECA1JPX470TB	63V 47U	1	
C778	ECA1EPX470TB	25V 47U	1	
C779, 80	ECA2APXS100B	100V 10U	2	
C781	ECBT1H102KB5	50V 1000P	1	
C782, 83	ECEA1EKS100	25V 10U	2	
C787, 88	ECCR1H221J5	50V 220P	2	
C789, 90	ECA1HPXS100B	50V 10U	2	
C791, 92	ECA1VPT102ZE	35V 1000U	2	
△				
C793, 94	ECA1HBX3R3B	50V 3.3U	2	
C795-98	ECA1EPXS470B	25V 47U	4	
C799	ECKR2H103ZU	500V 0.01U	1	
C801	ECBT1H104ZF5	50V 0.1U	1	
C802	RCE1CKA100BG	16V 10U	1	
C804	ECBT1H104ZF5	50V 0.1U	1	
C805	RCE1CKA100BG	16V 10U	1	
C807	RCE1CKA100BG	16V 10U	1	
C808-10	ECBT1H104ZF5	50V 0.1U	3	
C821	ECEA1EKS100	25V 10U	1	
C901, 02	ECEA1EKN3R3B	25V 3.3U	2	
C903, 04	ECEA1HKS2R2	50V 2.2U	2	
C905	RCE1HKA4R7BG	50V 4.7U	1	
C910	RCE1HKA4R7BG	50V 4.7U	1	
C955, 56	ECBT1C152JR5	16V 1500P	2	
CN701	RJS1A6606	CONNECTOR (6P)	1	
CN702, 03	RJS1A6605	CONNECTOR (5P)	2	
CN704	RJP2G17ZA	CONNECTOR (2P)	1	
CN706	SJS50382JQH	CONNECTOR (3P)	1	
CN707	RJP3G17ZA	CONNECTOR (3P)	1	
CN708	RJS1A6605	CONNECTOR (5P)	1	
CN751-55	RJS1A1101T1	CONNECTOR (1P)	5	
CN761	SJS305-1	CONNECTOR (3P)	1	
CN771-76	RJS1A1101T1	CONNECTOR (1P)	6	
CN778	RJS1A1101T1	CONNECTOR (1P)	1	
CN801A	RJS1A6603	CONNECTOR (3P)	1	
CN801B	RJS1A6605	CONNECTOR (5P)	1	
CN802	RJS1A6607T1	CONNECTOR (7P)	1	
CN803	RJP3G18ZA	CONNECTOR (3P)	1	
CN804	RJU057W007	CONNECTOR (7P)	1	
CN805	RJU057W004	CONNECTOR (4P)	1	
CP706	SJT30345JQ	CONNECTOR (3P)	1	
CP804	RJT057W007-1	CONNECTOR (7P)	1	
CP805	RJT057W004-1	CONNECTOR (4P)	1	
D401, 02	MA167	DIODE	2	
D403, 04	MA4036M	DIODE	2	
D405, 06	MA165	DIODE	2	
D451	MA165	DIODE	1	
D452	MA4056M	DIODE	1	
D453	MA29WA	DIODE	1	
D501, 02	MA165	DIODE	2	
D503, 04	MA4160M	DIODE	2	
△				
D505	MA165	DIODE	1	
D506	ISS291TA	DIODE	1	
D601	MA165	DIODE	1	
D602	MA4068L	DIODE	1	
D603, 04	MA165	DIODE	2	
D605	SLR-305VC	LED	1	
D701-04	P300DLF	DIODE	4	
△				
D706	MA165	DIODE	1	
D711-14	1SR35200TB	DIODE	4	
△				
D721	MA165	DIODE	1	
D762	MA165	DIODE	1	
D771, 72	MA4220M	DIODE	2	
△				

Ref. No.	Part No.	Part Name & Description	Pcs.	Remarks
D773	MA4160M	DIODE	1	
△				
D775, 76	MA165	DIODE	2	
△				
D781	MA4160M	DIODE	1	
△				
D782	MA165	DIODE	1	
△				
D791-94	1SR35200TB	DIODE	4	
△				
D795, 96	MA4140M	DIODE	2	
△				
D797, 98	MA165	DIODE	2	
△				
D801	SLR-305VC	LED	1	
△				
D802, 03	MA165	DIODE	2	
△				
D806	MA165	DIODE	1	
△				
D807, 08	SLR-305VC	LED	2	
△				
D809-12	MA165	DIODE	4	
△				
D821	MA167	DIODE	1	
△				
D822-26	MA165	DIODE	5	
△				
D901	MA165	DIODE	1	
△				
D902	MA4100M	DIODE	1	
△				
D903-06	MA165	DIODE	4	
△				
D907	MA4100M	DIODE	1	
△				
D911, 12	MA165	DIODE	2	
△				
D914	MA165	DIODE	1	
△				
D917	MA165	DIODE	1	
△				
F1	XBA2C31TB0	FUSE	1	
△				
IC401	AN7062N	IC	1	
△				
IC501	SVI3205B	IC	1	
△				
IC502	RSN6000B	IC	1	
△				
IC721	AN78L05TA	IC	1	
△				
IC761	AN78L05TA	IC	1	
△				
IC785	NJM4580DD	IC	1	
IC801, 02	UPD4027BC	IC	2	
IC803	ON3131R	IC	1	
IC901	BA6138	IC	1	
IC902	M5218AP	IC	1	
JK1	SJS9236	JACK, AC INLET	1	
△				
JK401	SJF3068-7N	JACK, INPUT	1	
JK501	RJH4801M-2	JACK, SPEAKERS	1	
JK502	RJJ63TA01	JACK, HEADPHONES	1	
JK601	RJS1A7402-1	JACK, FAN MOTOR	1	
JK791	RJS1D0706	JACK, CONTROL	1	
JK801	RJJ33T01	JACK, CONTROL OUT	1	
L1	RLQZ371	COIL	1	
△				
L401, 02	RLQA100JT-Y	COIL	2	
L403	BL02RN1R62T2	COIL	1	
L501-04	SLQY18G-10	COIL	4	
L791-97	ELEXT1R0KA9	COIL	7	
P1	RPQ0164	PAD	1	
P2	RPF0139	PROTECTION COVER	1	
P3	RPG4513	PACKING CASE	1	
P4	RPN1205	PAD	1	
P5	SPP730	PROTECTION COVER	1	
P6	RPH0032	MIRROR SHEET	1	(EB)
PCB1	REP2876A-M	MAIN PCB	1	(RTL)
PCB2	REP2877AA-S	BATTERY PCB	1	(E, EG) (RTL)
PCB2	REP2877BA-S	POWER SUPPLY PCB	1	(EB) (RTL)
PCB3	REP2877AB-S	CONT ASSEM PCB	1	(E, EG) (RTL)
PCB3	REP2877BB-S	CONT ASSEM PCB	1	(EB) (RTL)

Ref. No.	Part No.	Part Name & Description	Pcs.	Remarks
PL901-10	XAMR131	LUMP	10	
Q401,02	2SA992F	TRANSISTOR	2	
Q451,52	2SC1845F	TRANSISTOR	2	
Q453,54	2SC3311AR	TRANSISTOR	2	
Q455,56	2SA1309AR	TRANSISTOR	2	
Q501-03	2SA992F	TRANSISTOR	3	
Q543	2SA1309AR	TRANSISTOR	1	
Q601,02	2SC3311AR	TRANSISTOR	2	
Q603	2SC3940AQSTA	TRANSISTOR	1	
Q604-06	2SC3311AR	TRANSISTOR	3	
Q611,12	2SC3311AR	TRANSISTOR	2	
Q701	2SC3311AR	TRANSISTOR	1	
Q771	2SK330GRYTA	TRANSISTOR	1	
Q772	2SJ105GRYTA	TRANSISTOR	1	
Q773	2SC1845F	TRANSISTOR	1	
Q774	2SA992F	TRANSISTOR	1	
Q781	2SD2374PQAU	TRANSISTOR	1	
Q791	2SK330GRYTA	TRANSISTOR	1	
Q792	2SJ105GRYTA	TRANSISTOR	1	
Q793	2SC3940AQSTA	TRANSISTOR	1	
Q794	2SA1534AQRTA	TRANSISTOR	1	
Q801,02	UN4215	TRANSISTOR	2	
Q803,04	UN4111	TRANSISTOR	2	
Q806,07	UN4111	TRANSISTOR	2	
Q808	2SA1309AR	TRANSISTOR	1	
Q809	2SC3311AR	TRANSISTOR	1	
Q810	UN4111	TRANSISTOR	1	
Q811	2SA992F	TRANSISTOR	1	
Q822	UN4215	TRANSISTOR	1	
Q825	UN4111	TRANSISTOR	1	
Q906	2SC3311AR	TRANSISTOR	1	
Q907	2SA1309AR	TRANSISTOR	1	
R401,02	ERDS2FJ122	1/4W 1.2K	2	
R403,04	ERDS2FJ823	1/4W 82K	2	
R405,06	ERDS2FJ272	1/4W 2.7K	2	
R407,08	ERDS2FJ823	1/4W 82K	2	
R411,12	ERDS2FJ470	1/4W 47	2	
R437	ERDS2FJ473	1/4W 47K	1	
R457	ERDS2FJ183	1/4W 18K	1	
R459,60	ERDS2FJ101	1/4W 100	2	
R461-64	ERDS2FJ333	1/4W 33K	4	
R465-68	ERDS2FJ101	1/4W 100	4	
R469	ERDS2FJ103	1/4W 10K	1	
R470	ERDS2FJ102	1/4W 1K	1	
R471,72	ERDS2FJ561	1/4W 560	2	
R491,92	ERDS2FJ823	1/4W 82K	2	
R501,02	ERDS2FJ362	1/4W 3.6K	2	
R503,04	ERDS2FJ121	1/4W 120	2	
R505,06	ERDS2FJ392	1/4W 3.9K	2	
R507,08	ERDS2FJ121	1/4W 120	2	
R509,10	ERDS2FJ101	1/4W 100	2	
R513-16	ERDS2FJ100	1/4W 10	4	
R519,20	ERX1SJ3R3	1W 3.3	2	
R521,22	ERDS1FJ100	1/2W 10	2	
R527	ERDS2FJ223	1/4W 22K	1	
R528	ERDS2FJ684	1/4W 680K	1	
R529	ERDS2FJ124	1/4W 120K	1	
R530	ERDS1FJ472	1/2W 4.7K	1	
R531,32	ERDS1FJ100	1/2W 10	2	
R533,34	ERDS2FJ103	1/4W 10K	2	
R535	ERDS2FJ562	1/4W 5.6K	1	

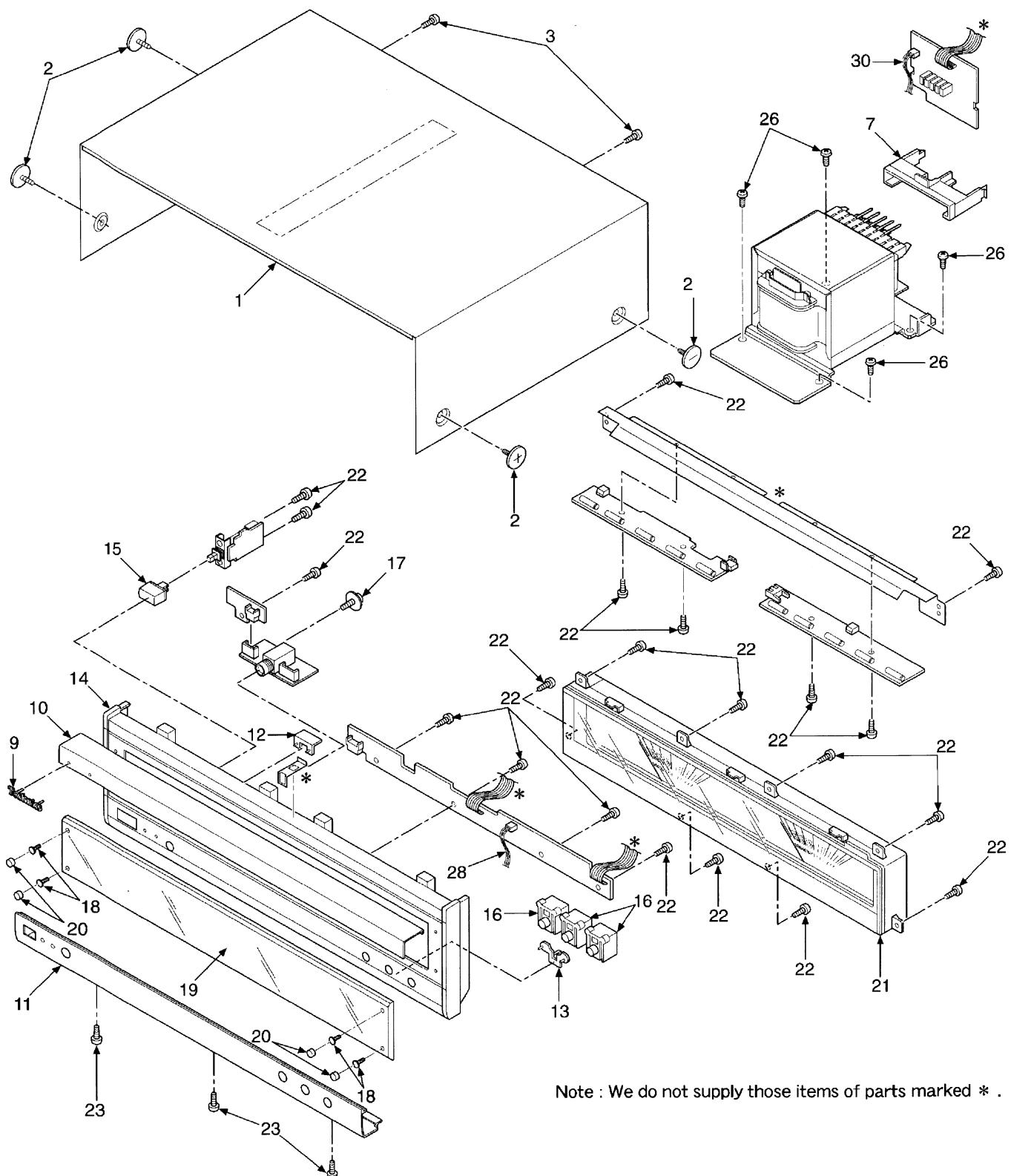
Ref. No.	Part No.	Part Name & Description	Pcs.	Remarks
R536	ERDS2FJ470	1/4W 47	1	
R537	ERDS2FJ101	1/4W 100	1	
R544	ERDS2FJ103	1/4W 10K	1	
R545	ERDS2FJ823	1/4W 82K	1	
R550,51	ERDS2FJ222	1/4W 2.2K	2	
R555-58	ERG1SJ681	1W 680	4	
R559	ERG1SJ152	1W 1.5K	1	
R560	ERG1SJ182	1W 1.8K	1	
R561,62	ERG1SJ151	1W 150	2	
R563,64	ERG1SJ181	1W 180	2	
R565-70	ERDS2FJ223	1/4W 22K	6	
R577,78	ERDS2FJ682	1/4W 6.8K	2	
R601-04	ERDS2FJ223	1/4W 22K	4	
R605	ERDS2FJ473	1/4W 47K	1	
R606	ERDS2FJ104	1/4W 100K	1	
R607	ERDS2FJ103	1/4W 10K	1	
R608	ERDS2FJ223	1/4W 22K	1	
R609	ERDS2FJ332	1/4W 3.3K	1	
R610	ERDS2TJ335T	1/4W 3.3M	1	
R611	ERDS2FJ473	1/4W 47K	1	
R612	ERDS2FJ153	1/4W 15K	1	
R613	ERDS2FJ473	1/4W 47K	1	
R614	ERDS2FJ683	1/4W 68K	1	
R615	ERDS2FJ103	1/4W 10K	1	
R616	ERDS1FJ220	1/2W 22	1	
R617	ERDS2FJ222	1/4W 2.2K	1	
R618	ERDS2FJ103	1/4W 10K	1	
R621	ERDS2FJ223	1/4W 22K	1	
R622	ERDS2FJ100	1/4W 10	1	
R623	ERDS2FJ823	1/4W 82K	1	
R701	ERDS2FJ100	1/4W 10	1	
R702	ERDS2FJ222	1/4W 2.2K	1	
R707,08	ERDS2FJ6R8	1/4W 6.8	2	
R721	ERDS2FJ221	1/4W 220	1	
R763	ERDS2FJ221	1/4W 220	1	
R771	ERDS2FJ470	1/4W 47	1	
R772	ERDS2FJ121	1/4W 120	1	
R773	ERDS2FJ332	1/4W 3.3K	1	
R774	ERDS2FJ103	1/4W 10K	1	
R775,76	ERDS2FJ105	1/4W 1M	2	
R781	ERDS1FJ472	1/2W 4.7K	1	
R782,83	ERDS1FJ560	1/2W 56	2	
R787,88	ERDS2FJ102	1/4W 1K	2	
R789,90	ERDS2FJ333	1/4W 33K	2	
R791,92	ERDS2FJ1R0	1/4W 1	2	
R793,94	ERDS2FJ103	1/4W 10K	2	
R795,96	ERDS2FJ105	1/4W 1M	2	
R801	ERDS2FJ221	1/4W 220	1	
R802	ERDS2FJ562	1/4W 5.6K	1	
R803,04	ERDS2FJ223	1/4W 22K	2	
R806	ERDS2FJ391	1/4W 390	1	
R807,08	ERDS2FJ223	1/4W 22K	2	
R809	ERDS2FJ823	1/4W 82K	1	
R810,11	ERDS2FJ223	1/4W 22K	2	
R812	ERDS2FJ391	1/4W 390	1	
R813-15	ERDS2FJ223	1/4W 22K	3	
R816	ERDS2FJ222	1/4W 2.2K	1	
R817	ERDS2FJ103	1/4W 10K	1	
R821	ERDS2FJ103	1/4W 10K	1	
R822	ERDS2FJ222	1/4W 2.2K	1	
R823	ERDS2FJ562	1/4W 5.6K	1	
R824	ERDS2FJ154	1/4W 150K	1	
R825	ERDS2FJ223	1/4W 22K	1	
R826	ERDS2FJ102	1/4W 1K	1	
R828,29	ERG1SJ182	1W 1.8K	2	
R830	ERDS2FJ472	1/4W 4.7K	1	
R831	ERDS2FJ683	1/4W 68K	1	
R854	ERDS2FJ391	1/4W 390	1	
R901,02	ERDS1FJ472	1/2W 4.7K	2	
R903,04	ERDS2FJ271	1/4W 270	2	

SE-A909S

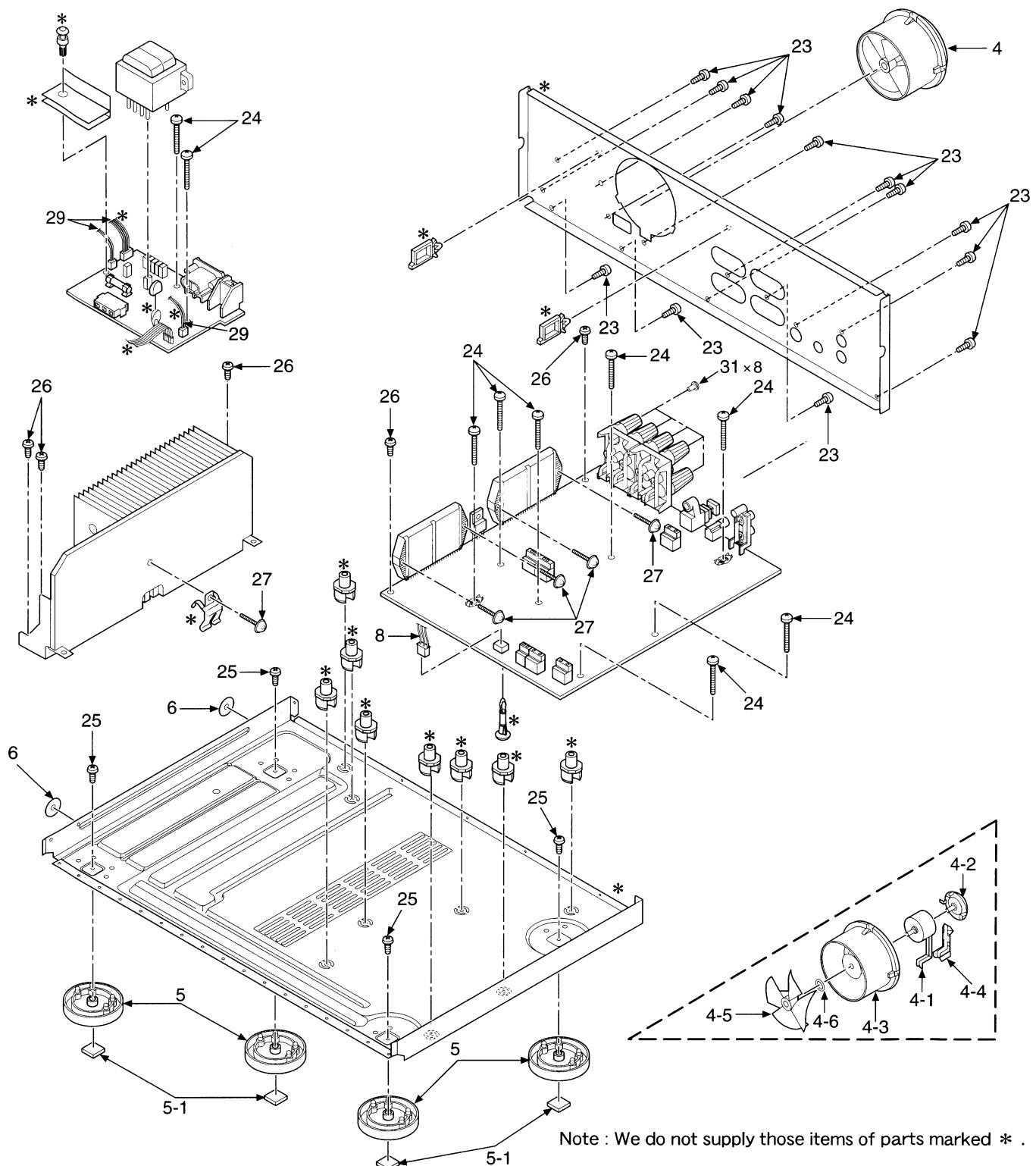
Ref. No.	Part No.	Part Name & Description	Pcs.	Remarks
R905,06	ERDS2TJ155	1/4W 1.5M	2	
R907,08	ERDS2FJ682	1/4W 6.8K	2	
R909,10	ERDS2FJ103	1/4W 10K	2	
R911,12	ERDS2FJ821	1/4W 820	2	
R915	ERDS2FJ103	1/4W 10K	1	
R916	ERDS2FJ104	1/4W 100K	1	
R921,22	ERDS2FJ123	1/4W 12K	2	
R923,24	ERDS2FJ154	1/4W 150K	2	
R925,26	ERDS2FJ223	1/4W 22K	2	
R927,28	ERDS2FJ102	1/4W 1K	2	
R929,30	ERDS2FJ121	1/4W 120	2	
R931-36	ERG1SJ681	1W 680	6	
R947,48	ERDS2FJ103	1/4W 10K	2	
R949,50	ERDS2FJ223	1/4W 22K	2	
RL503,02	RSY0013M-0	RELAY	2	
△				

Ref. No.	Part No.	Part Name & Description	Pcs.	Remarks
RL503,04	RSY0031-A	RELAY	2	
△				
RL701	RSY0019M-0	RELAY	1	
△				
S801	RSP2B023-A	SW, POWER	1	
△				
S802-04	EVQ21405R	SW, PUSH	3	
△				
T1	RTP1P5B005	POWER TRANSFORMER	1	
△				
T701	RTP1J5B001	POWER TRANSFORMER	1	
△				
TH901,02	ERTD2ZHL104T	THERMISTOR	2	
△				
VR909,10	EVNDXAA00B23	VR, POWER METER ADJ.	2	
△				

14 Cabinet Parts Location



Note : We do not supply those items of parts marked * .



15 Packaging

