

Service Manual

Amplifier
SE-A800SM2

Power Amplifier



Colour
(K).....Black Type

Areas
(E) Europe.
(EB) Great Britain.
(EG)..... Germany.

System: SU-A800DM2

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

Control amplifier	SU-C800UM2
Power amplifier	SE-A800SM2

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 (8 Ω)
Total harmonic distortion rated power at 20 Hz – 20 kHz	0.015 % (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
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 dB, -3 dB) +0 dB, -0.5 dB (20 Hz -20 kHz)

■ GENERAL

Power supply
For (E) and (EG) areas
For (EB) area
Power consumption
Dimensions (W × H × D)
Weight

AC 50 Hz, 230 V
AC 50 Hz, 230 V – 240 V
230 W
430 × 136 × 348 mm
8.7 kg

Notes:

- 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.

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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.

If this occurs, follow the procedure outlined below:

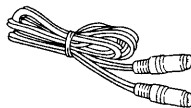
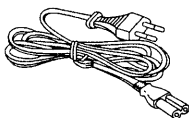
1. Switch OFF the power.
2. Determine the cause of the problem and correct it.
3. Switch ON the power once again.

Note:

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

■ Accessories

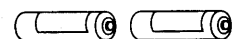
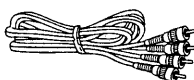
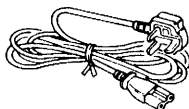
- AC power supply cord (E) and (EG) areas : (RJA0019-2K) 1
- Amplifier connection cable (RJL6D001B10)..... 1
- Remote control transmitter (RAK-SU228WH) 1



(EB) area : (RJA0049-K) 1

- Stereo connection cable (SJP2276) 1

- Batteries for remote control transmitter (UM-4, "AAA", R03) 2



Note: These are available on sales route.

■ Caution for AC Mains Lead

[for (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.

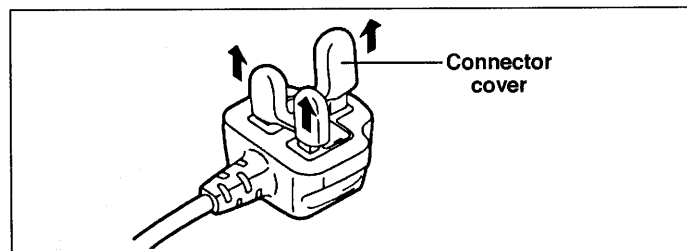
This apparatus was produced to BS 800.

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 \perp .

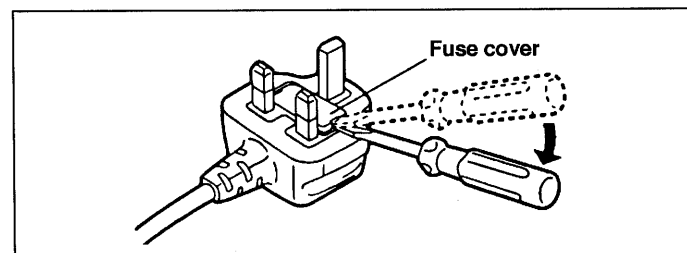
Before use

Removal the connector cover as follows.

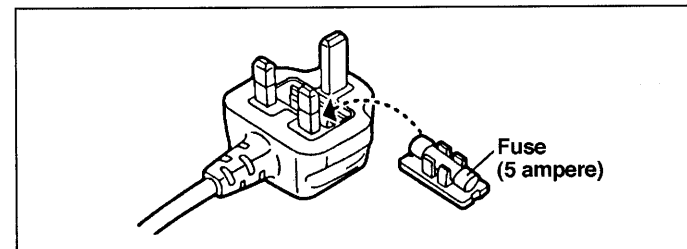


How to replace the fuse

1. Remove the fuse cover with a screwdriver.



2. Replace the fuse and attach the fuse cover.



Connections

Stereo connection cable

White (L) Blanco (L) Vit (L)



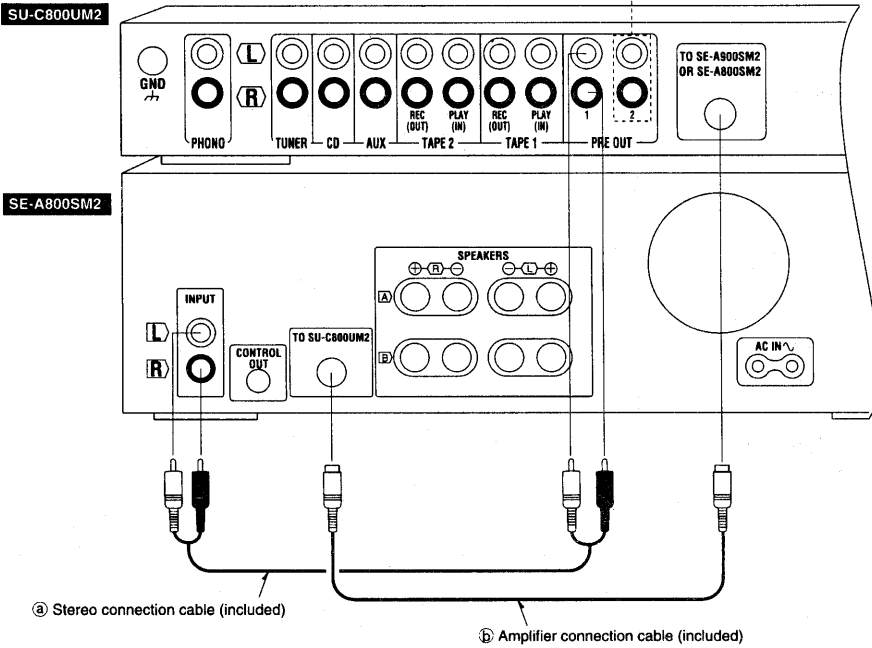
- Make sure that the power supply for all components has been turned off before making any connections.
- Connect the power cord to the amplifier only after all other connections between components have been made.

The symbols (a, b, c etc.) used in this diagram are inserted for reference when using the companion volume.

1 Control amplifier and power amplifier connections

PRE OUT 2 terminals

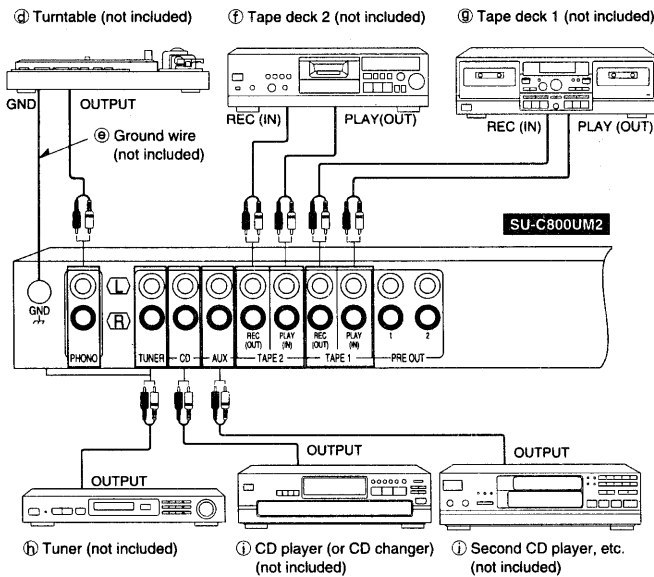
These terminals let you connect a second power amplifier.



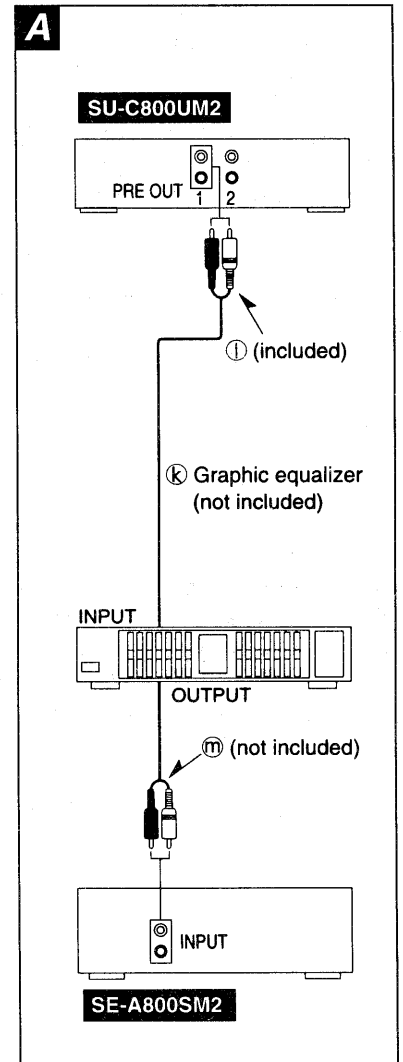
a Stereo connection cable (included)

b Amplifier connection cable (included)

2 Component connections

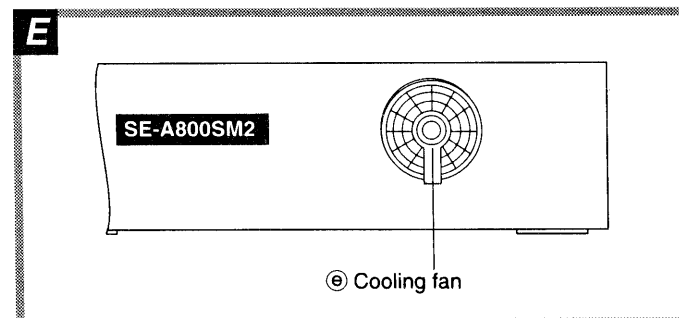
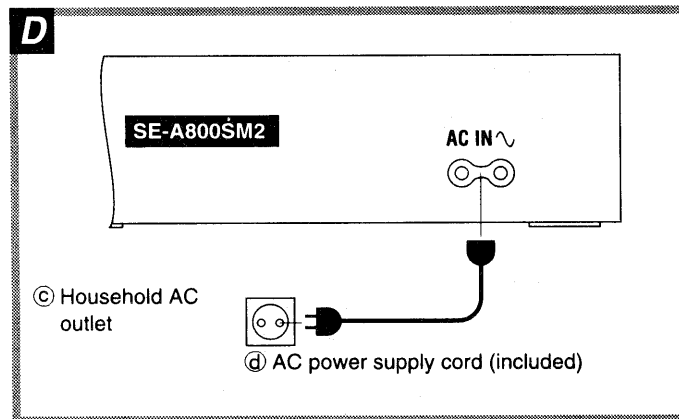
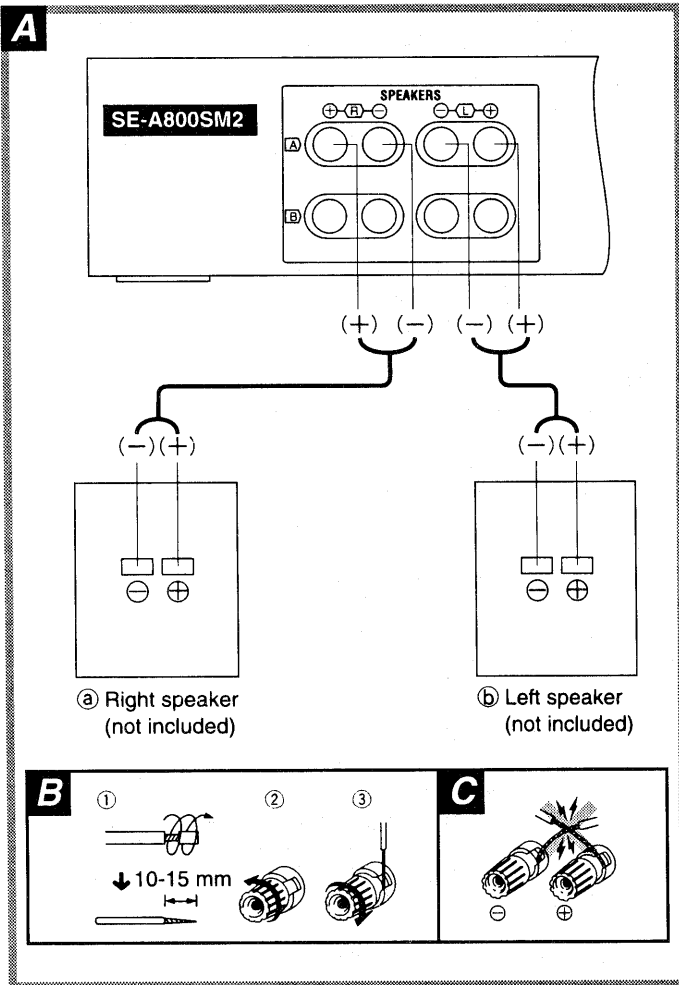


- d Turntable (not included)
- e Tape deck 2 (not included)
- f Tape deck 1 (not included)
- g Tuner (not included)
- h CD player (or CD changer) (not included)
- i Second CD player, etc. (not included)
- c Ground wire (not included)



If connecting a graphic equalizer A

Connect it between the PRE OUT terminals of the control amplifier and the INPUT terminals of the power amplifier.



Connecting the speakers

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.

Speaker cables (not included)



To connect speaker cables to terminals

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

“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

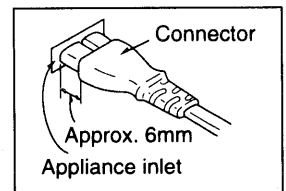
To prevent damage to circuitry, never short-circuit the positive (+) and negative (-) speaker wires.

Connecting the power supply

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

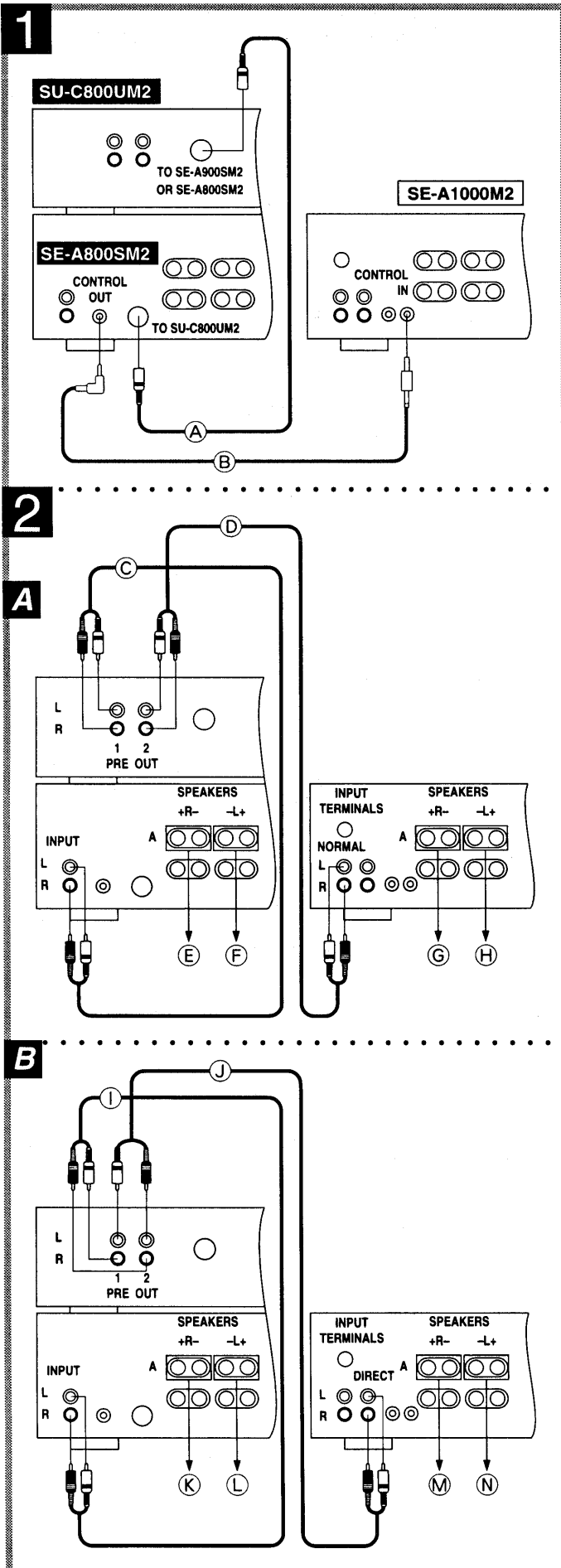
Insertion of Connector

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.



Cooling fan

The cooling fan operates at high power output levels only.



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-A1000M2 (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.

Here following is an explanation on how to connect to the Technics SE-A1000M2. In this particular setup, speakers are connected so as to separate treble and bass input.

1 Connect the amplifier connection cable and the connection cable for remote control.

- (A) Amplifier connection cable (included)
- (B) Connection cable for remote control (included with SE-A1000M2)

2 Connect the stereo connection cables and speakers.

For speaker cable connections. In the below text, speaker input terminals are indicated as "HF" for the high region and "LF" for the low region.

Example 1 A

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

If connections are made as shown in the illustration, you can adjust high range level from the LEVEL CONTROL knob on the SE-A1000M2. (See the SE-A1000M2 instruction manual for details.)

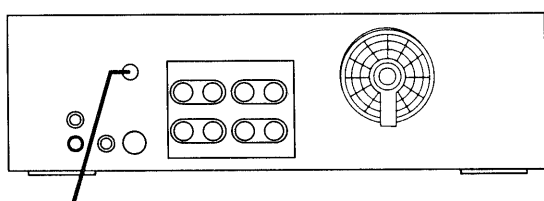
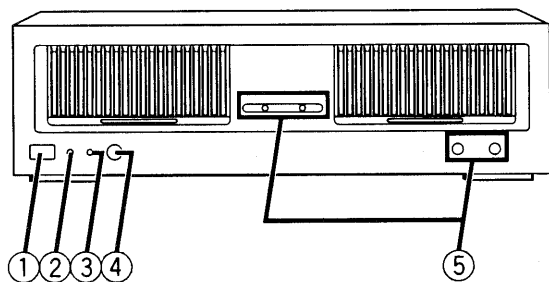
- (C) Stereo connection cable (included)
- (D) Stereo connection cable (not included)
- (E) To the LF terminals on the right speaker
- (F) To the LF terminals on the left speaker
- (G) To the HF terminals on the right speaker
- (H) To the HF terminals on the left speaker

Example 2 B

To use as left/right monaural amplifiers
Left and right channel separation will be better and sound orientation improved.

- (I) Stereo connection cable (included)
- (J) Stereo connection cable (not included)
- (K) To the HF (or LF) terminals on the right speaker
- (L) To the LF (or HF) terminals on the right speaker
- (M) To the HF (or LF) terminals on the left speaker
- (N) To the LF (or HF) terminals on the left speaker

■ Front Panel Controls



POWER METER LIGHT

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.

② **“REMOTE STANDBY” indicator (REMOTE STANDBY)**

The indicator lights up in the below cases.

- When the control amplifier is in the OFF state and this switch is set in the “ ON” position
- When both amplifiers are ON and then turned OFF simultaneously from either the control amplifier POWER switch or the remote control transmitter.

While this indicator is lit, this unit can be activated from either POWER switch of the control amplifier or the remote control transmitter.

③ **Operation indicator (OPERATION)**

④ **Headphones jack (PHONES)**

⑤ **Speaker select buttons/indicators (SPEAKERS)**

■ Operation Check and Main Component Replacement Procedures

NOTE

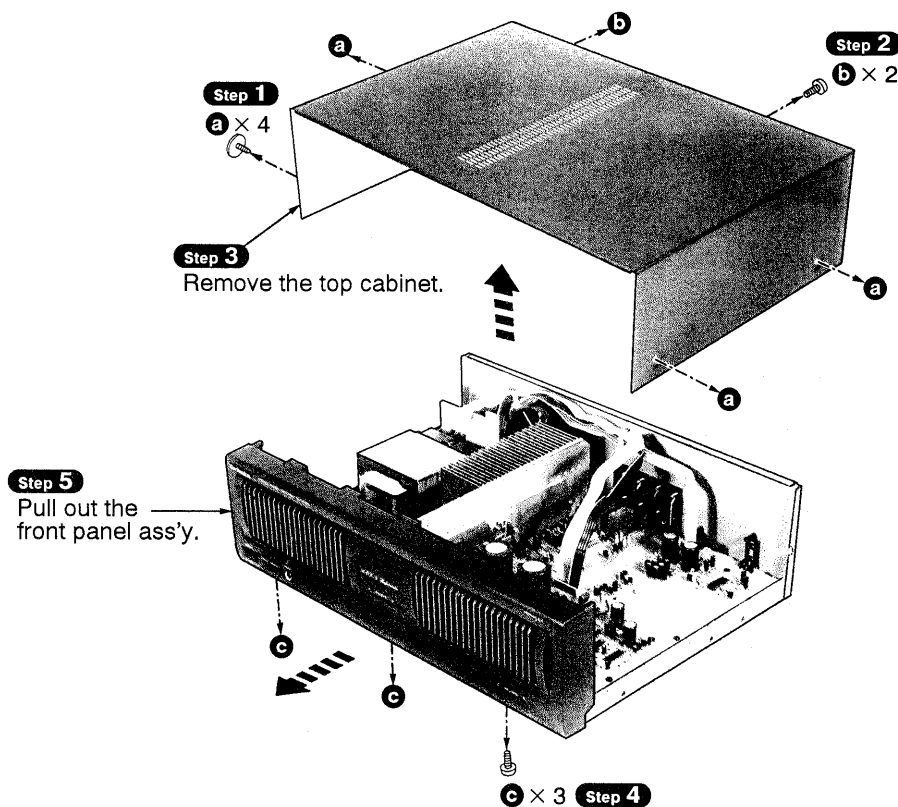
1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.
3. Select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

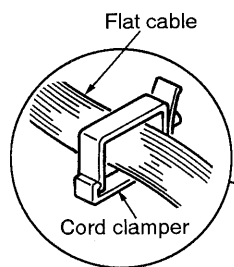
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•Main Component Replacement Procedures	
1.Replacement for the power IC and regulator transistor.	10,11.
2.Replacement for the fan motor.	11.

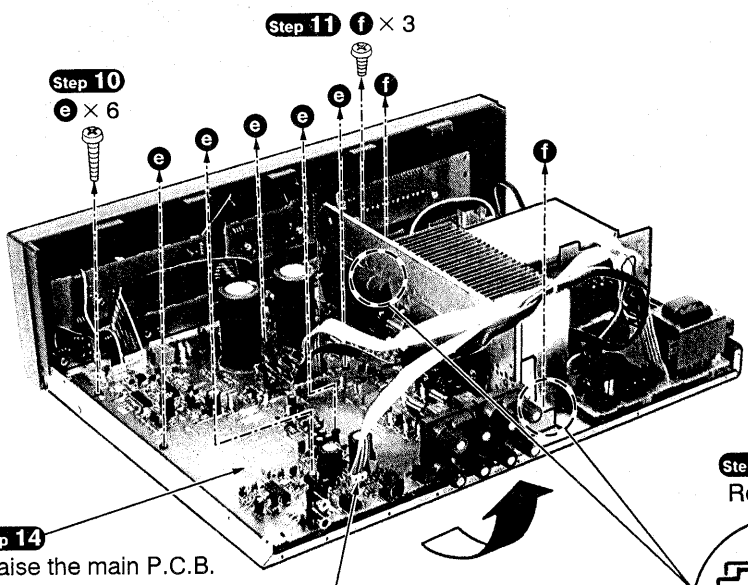
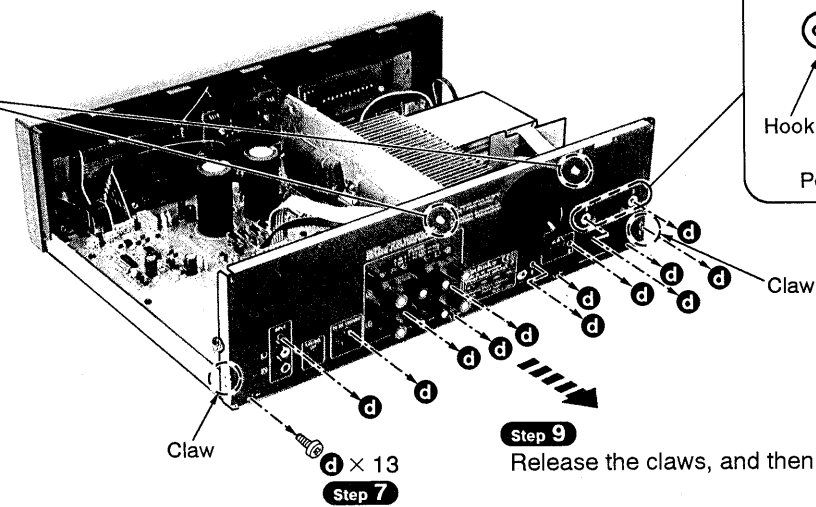
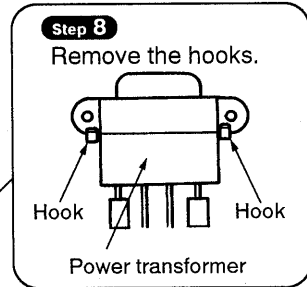
■ Checking Procedure for each P.C.B.

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



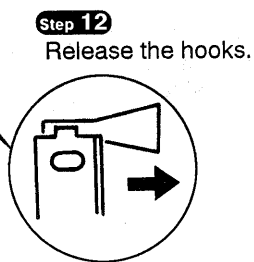


Step 6
Remove the flat cable from cord clasper.

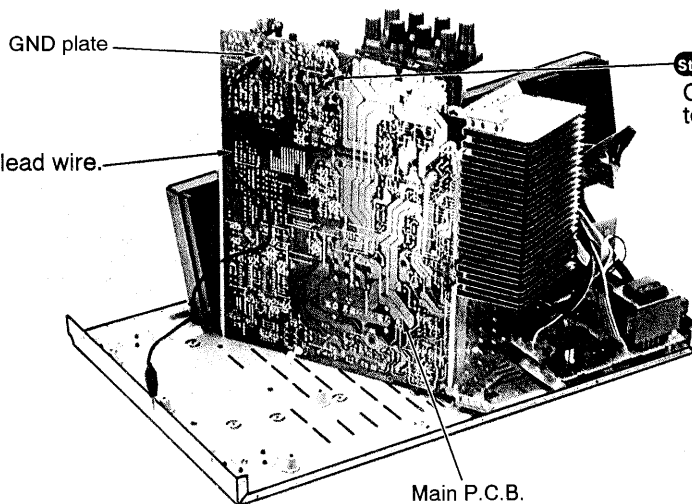


• Check the main P.C.B. as shown below.

Step 13
Remove the flat cable from connector (CN703).



Step 15
Connect the lead wire.



Step 16
Connect the flat cable to connector (CN703).

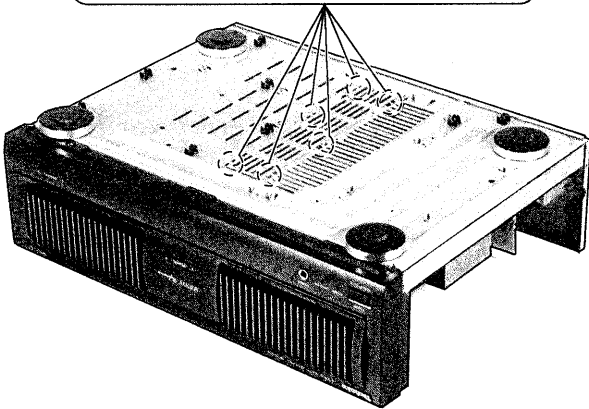
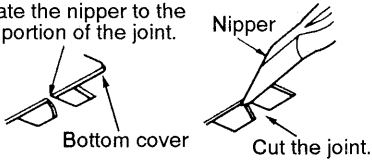
Main Component Replacement Procedures

1. Replacement for the power IC and regulator transistor

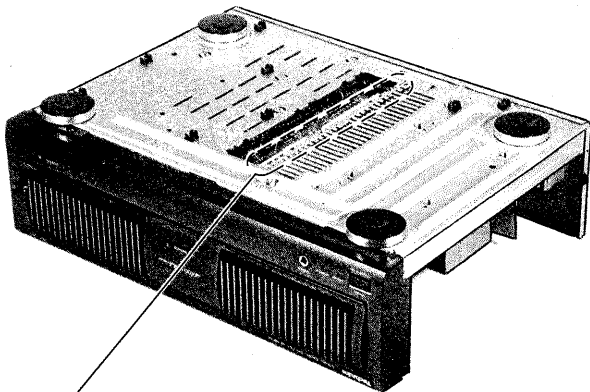
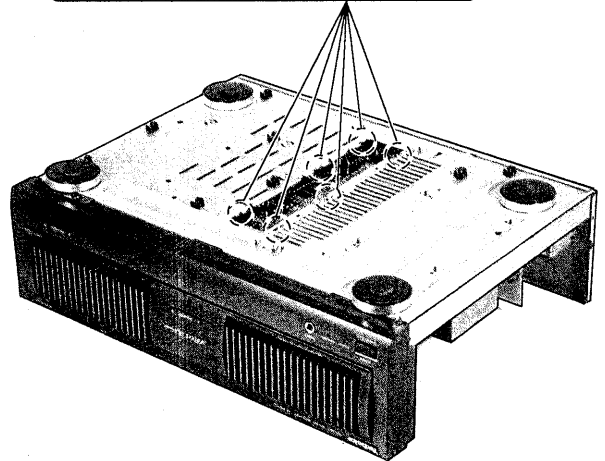
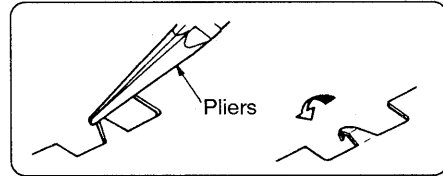
• Follow the **Step 1** ~ **Step 3** in item 1 on checking procedure for each P.C.B. on page 8.

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

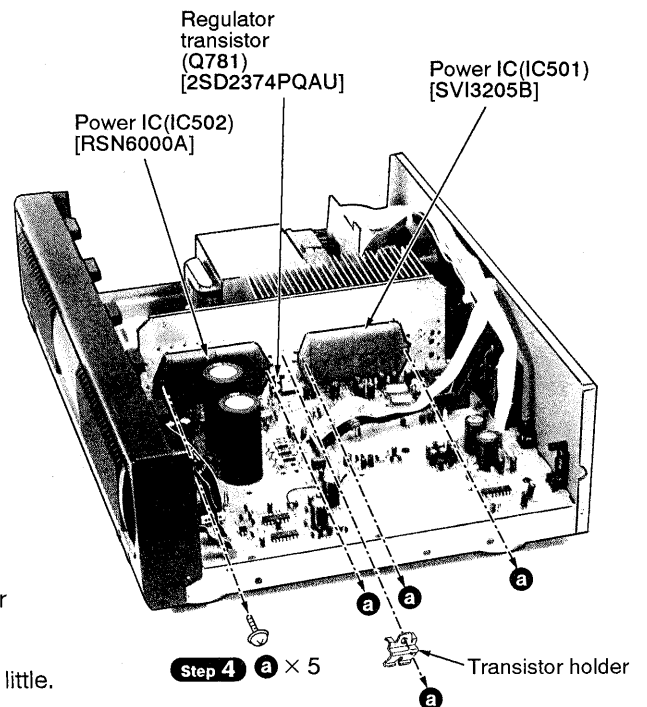
Locate the nipper to the thin portion of the joint.



Step 2 Fold the joints. (6 portions)



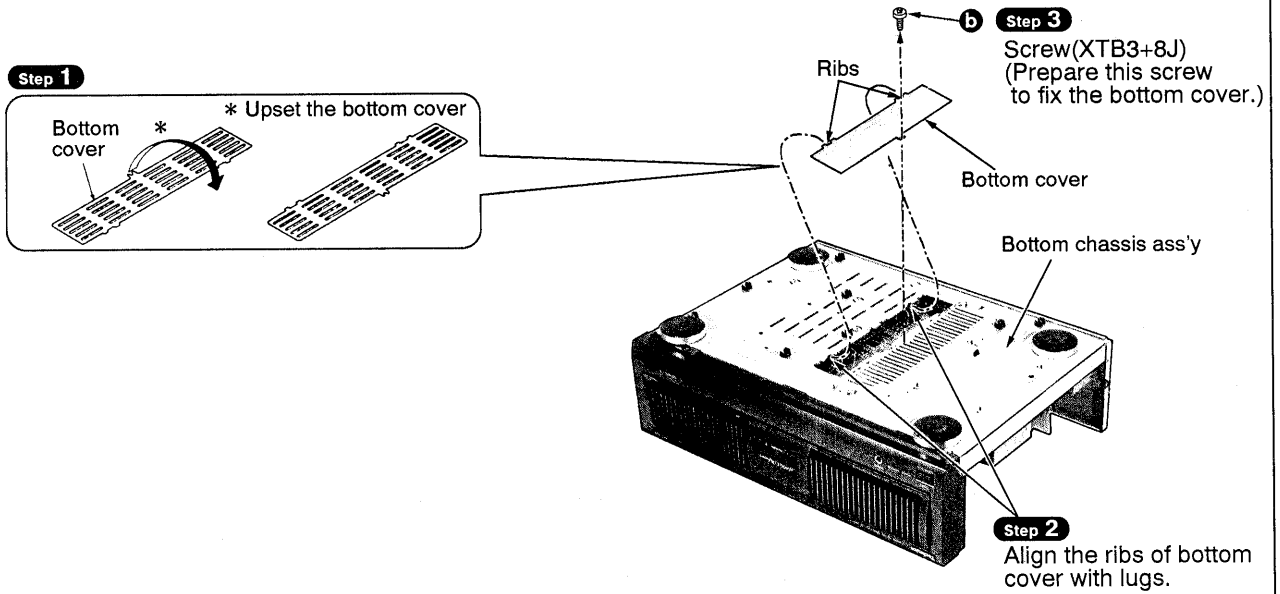
Step 3 Unsolder the terminals of power IC and regulator transistor.



CAUTION

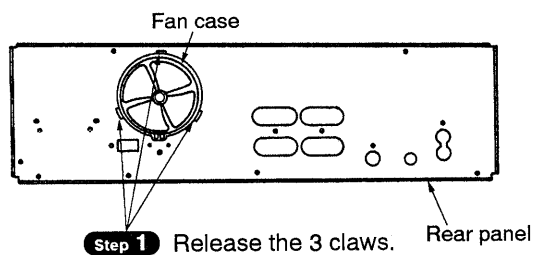
1. After replacing the power IC or regulator transistor, apply a sufficient quantity of compound grease (RFKX0002) between the heat sink and the power IC or regulator transistor (Radiation of power IC).
2. Tighten enough the screws (a) after replacing the power IC and regulator transistor. Otherwise,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

Installation of the bottom cover after replacement



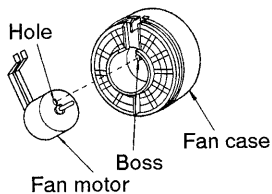
2. Replacement for the fan motor

• Follow the **Step 1** ~ **Step 9** in item 1 on checking procedure for each P.C.B. on pages 8 and 9.

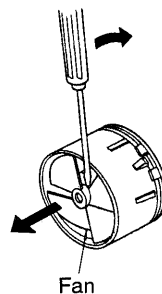


NOTE

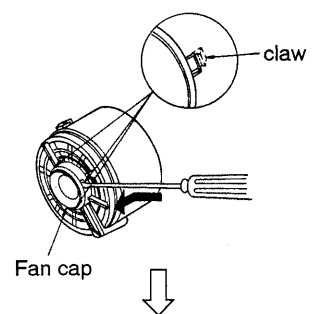
When replacing the fan motor, align the boss of the fan case with the hole of the fan motor.



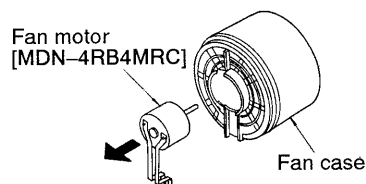
Step 2
Put a screwdriver at the root of the fan and remove it.



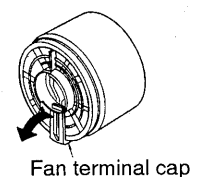
Step 3
Remove the fan cap.



Step 5
Remove the fan motor.



Step 4
Remove the fan terminal cap.



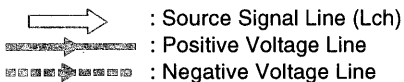
■ Schematic Diagram

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F LED (R ch) CIRCUIT	16
G LED (L ch) CIRCUIT	16
H POWER SUPPLY CIRCUIT	18
I POWER TRANSFORMER CIRCUIT	16
J POWER SWITCH CIRCUIT	16

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

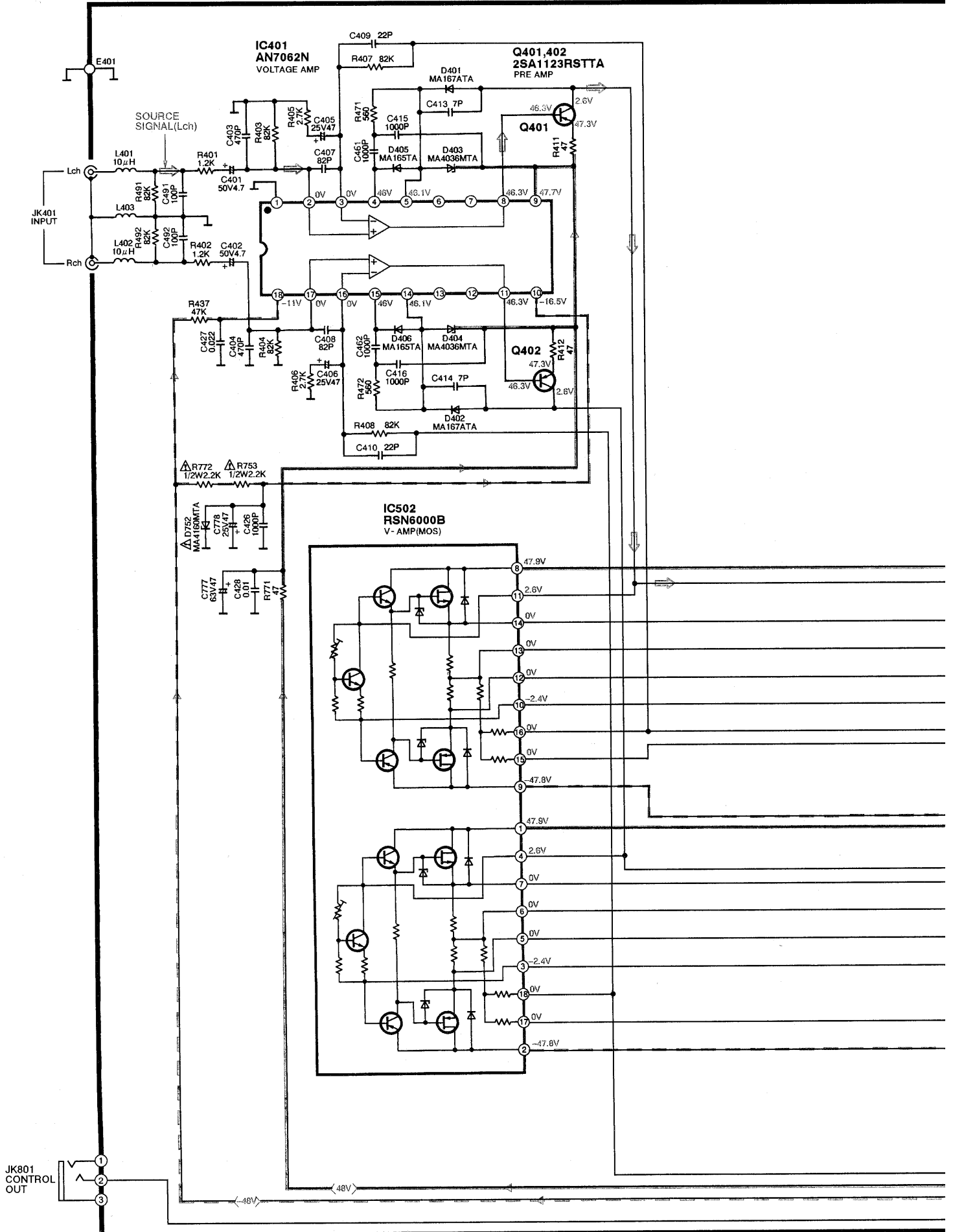
Notes:

- **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 **TP702**, 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.

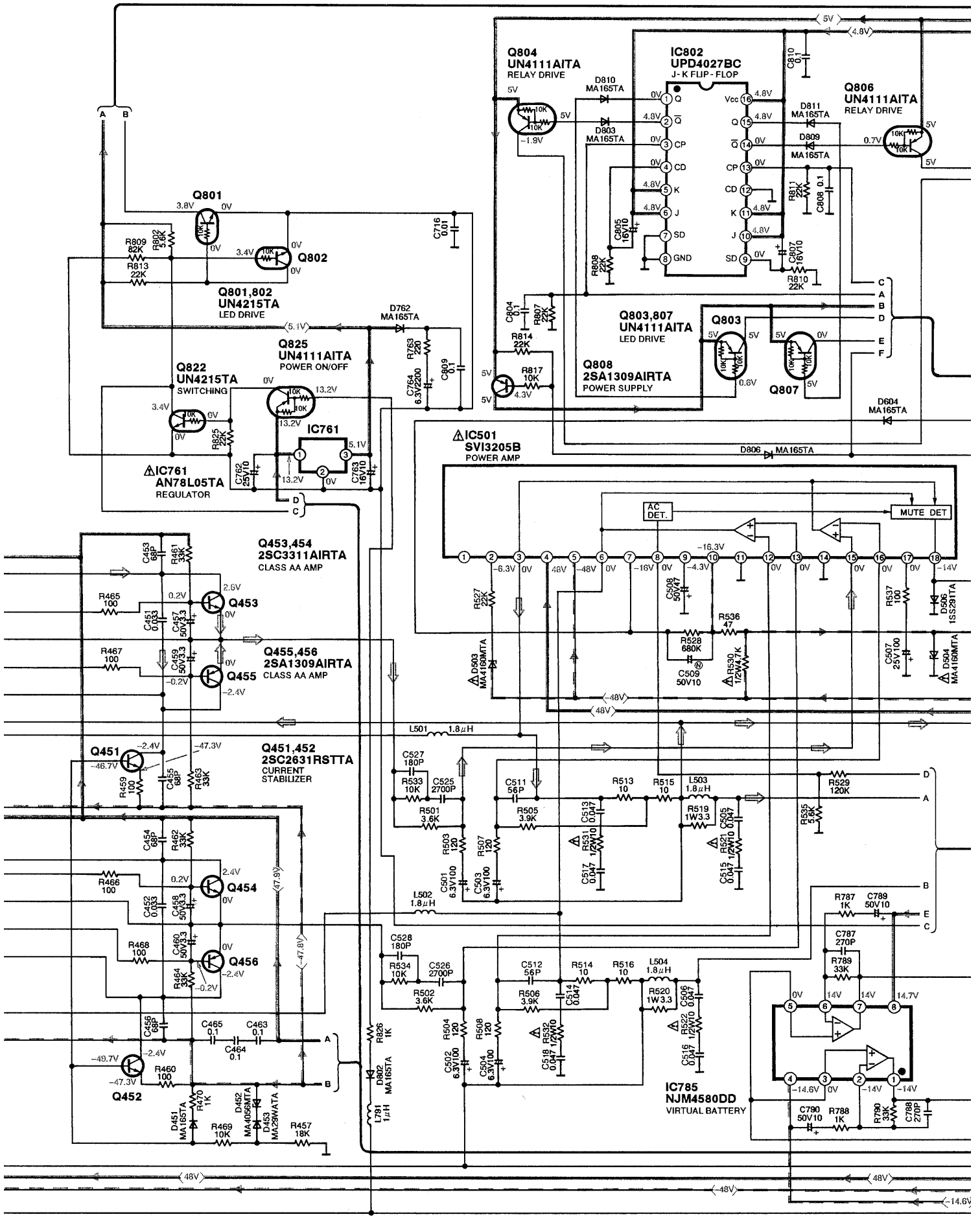
A MAIN CIRCUIT (P.C.Board: on page 17)



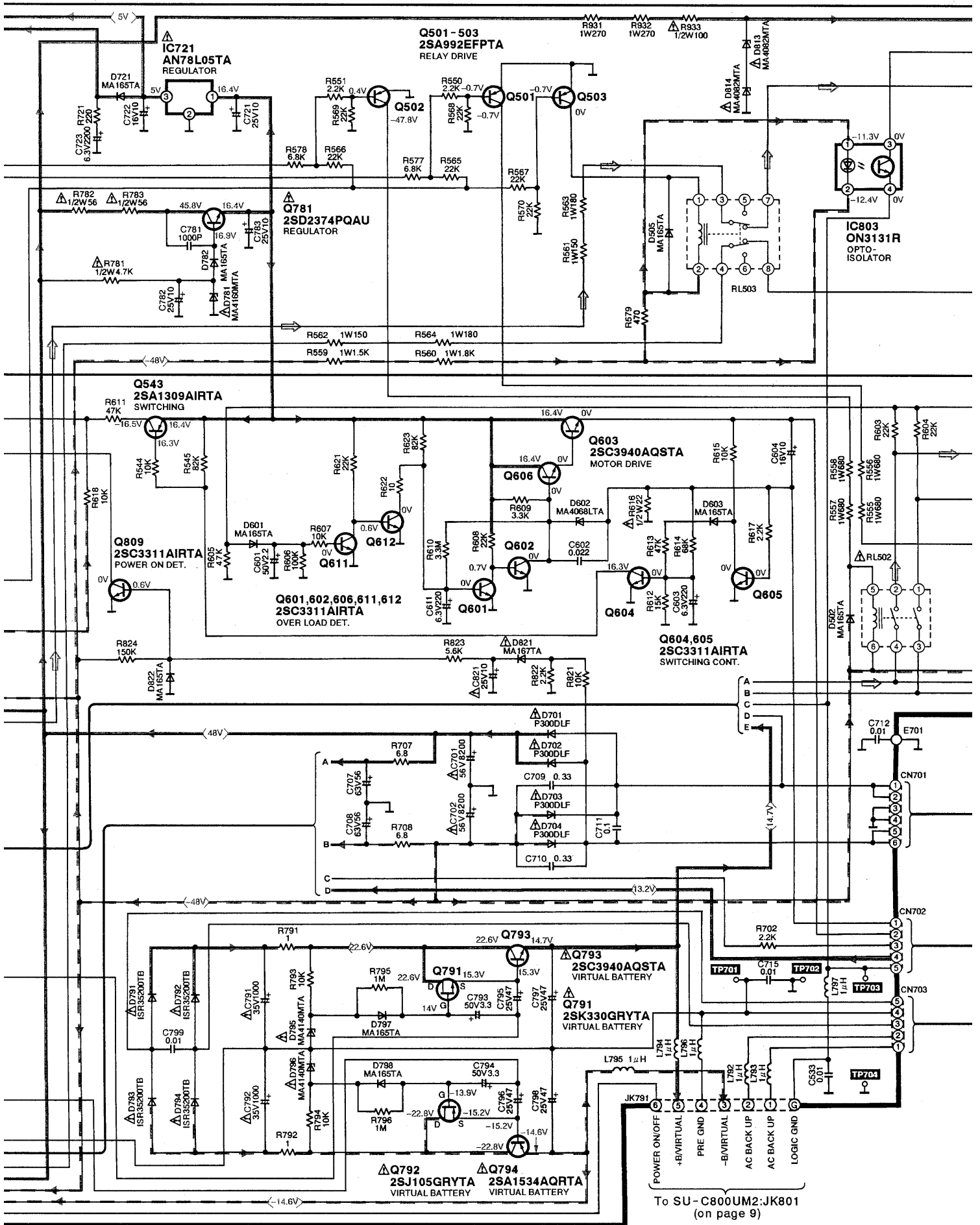
→ : Positive Voltage Line

⚡ : Negative Voltage Line

⇨ : Source Signal Line



A MAIN CIRCUIT (P.C.Board: on page 17)

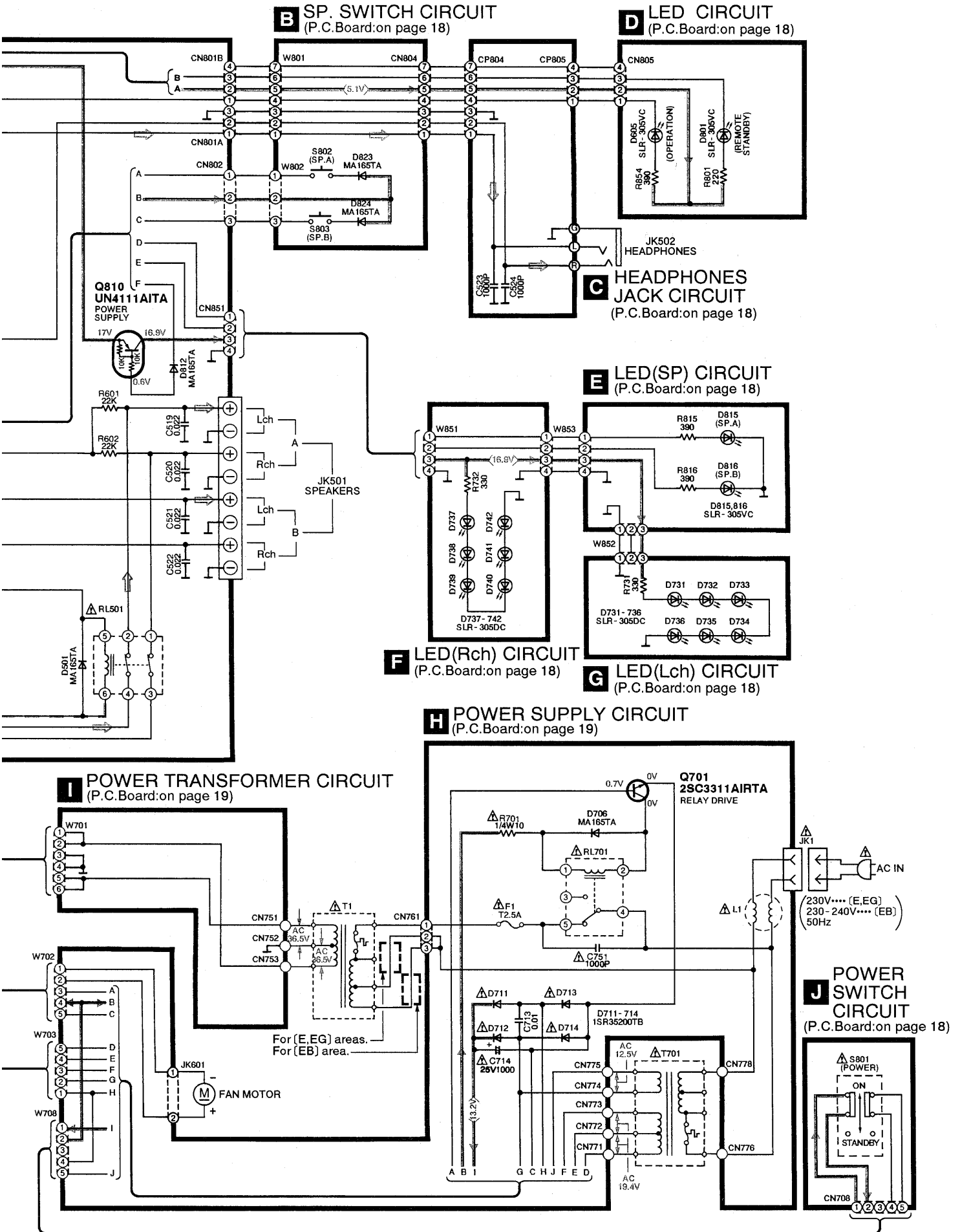


To SU-C800UM2:JK801 (on page 9)

→ : Positive Voltage Line

→ : Negative Voltage Line

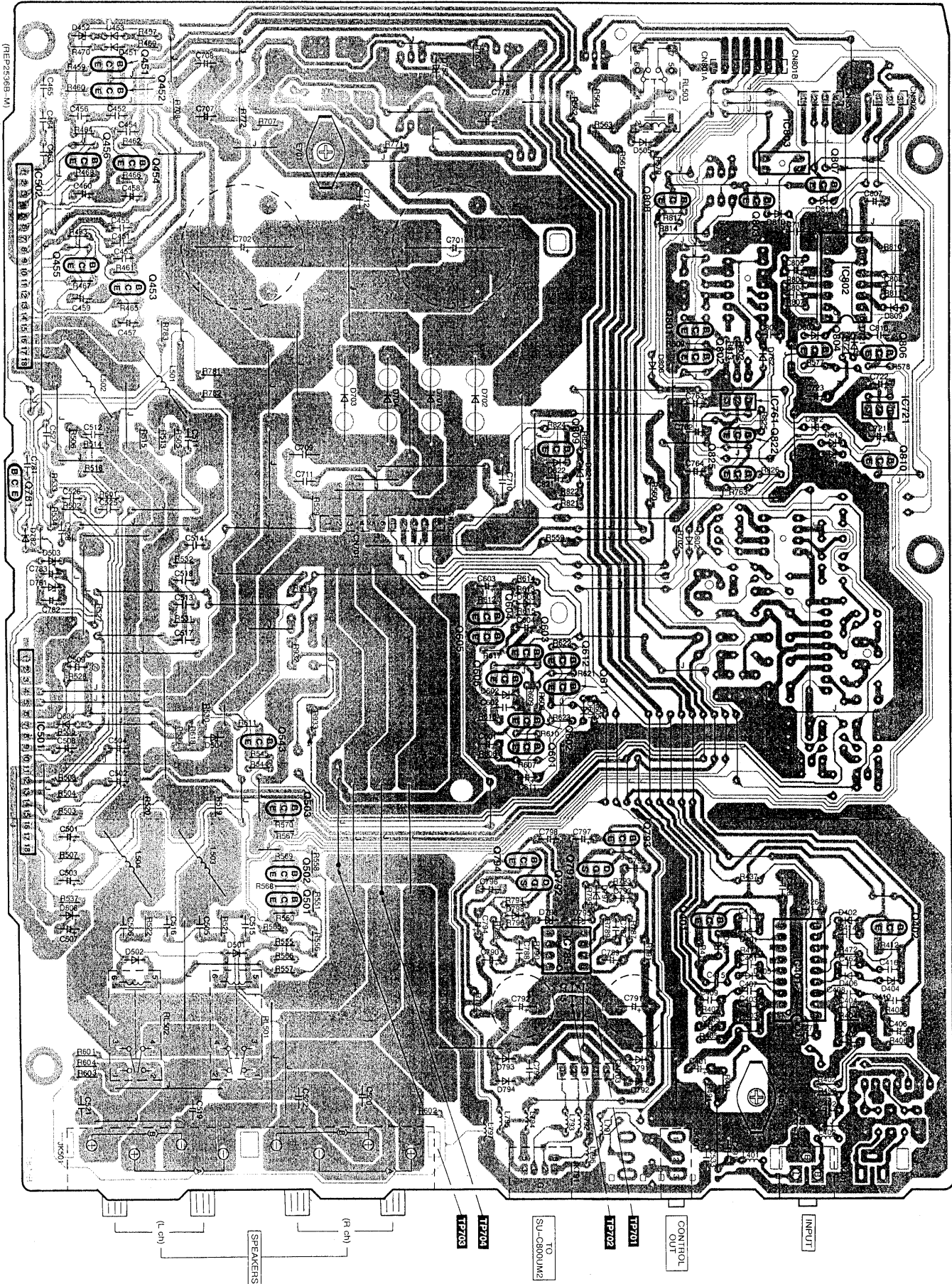
→ : Source Signal Line



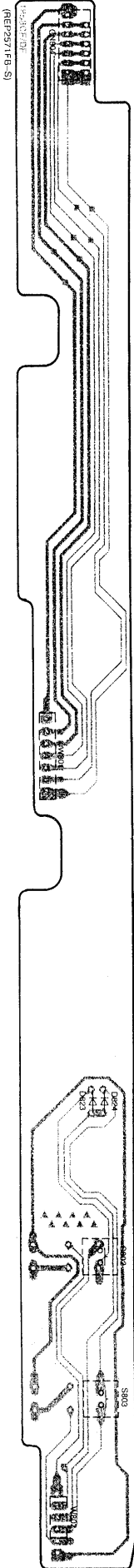
Printed Circuit Board Diagram

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

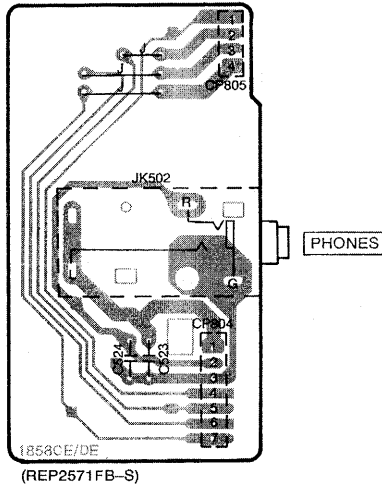
A MAIN P.C.B.



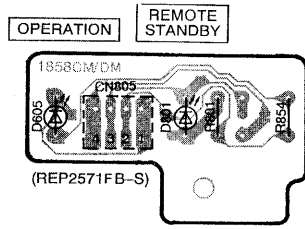
B SP. SWITCH P.C.B.



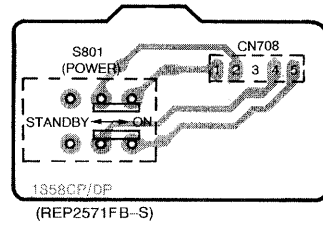
C HEADPHONES JACK P.C.B.



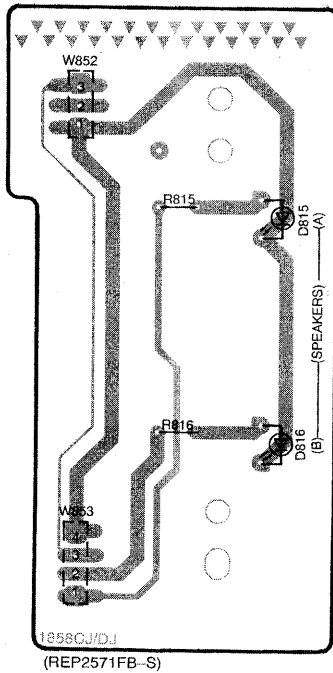
D LED P.C.B.



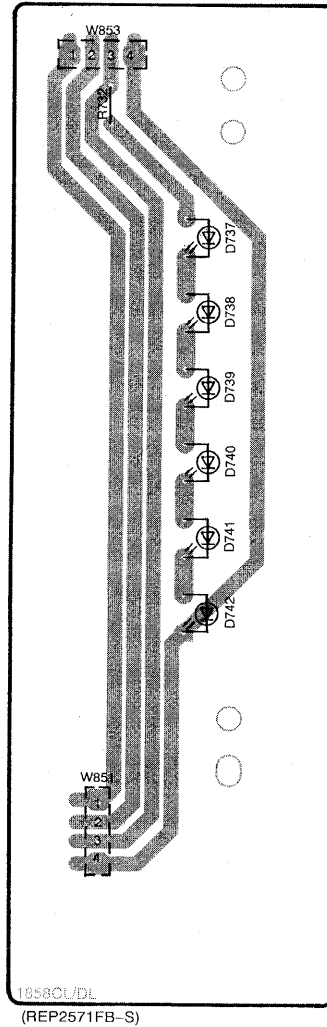
J POWER SWITCH P.C.B.



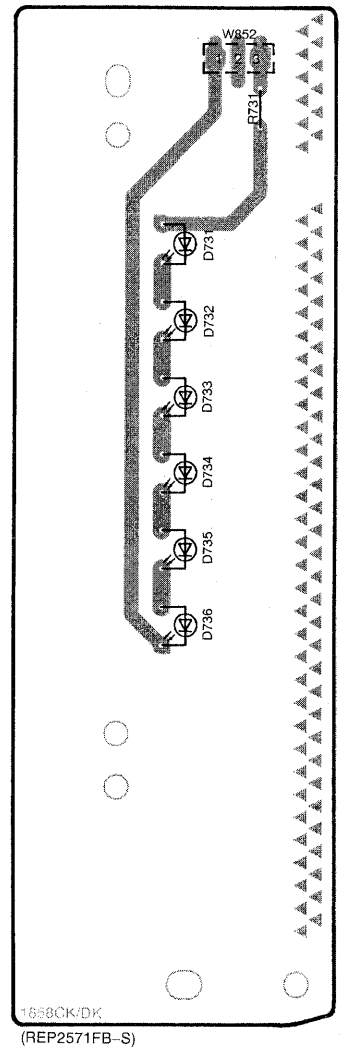
E LED (SP) P.C.B.



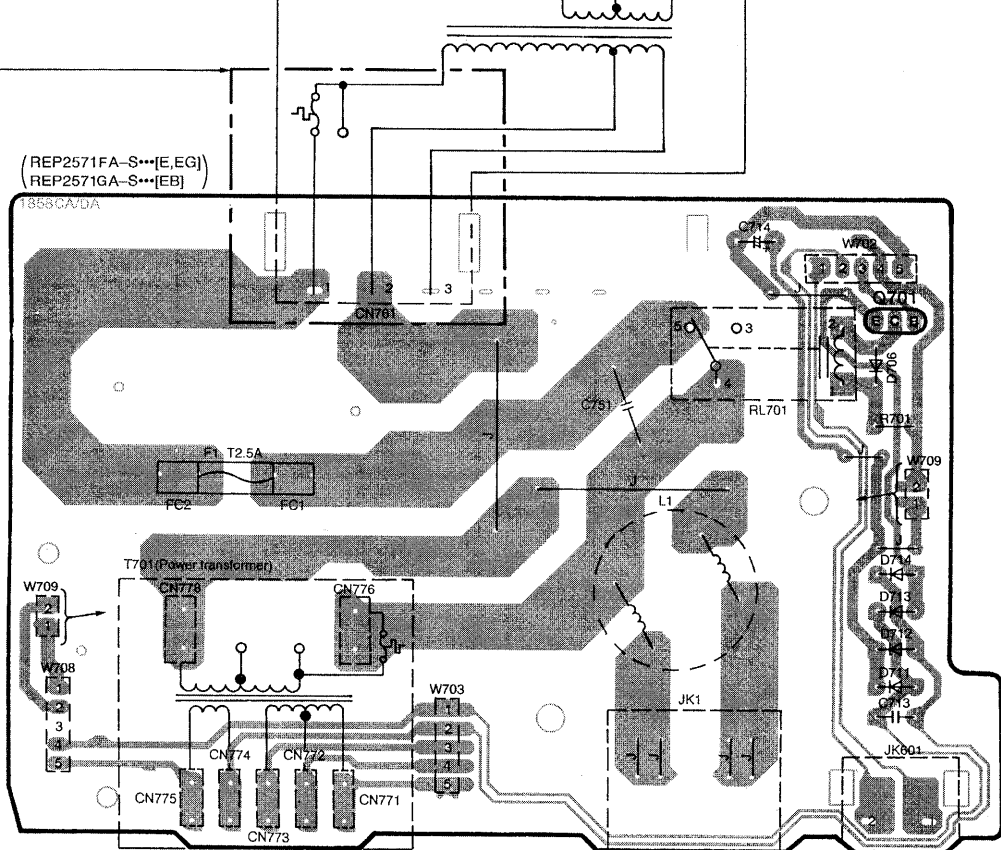
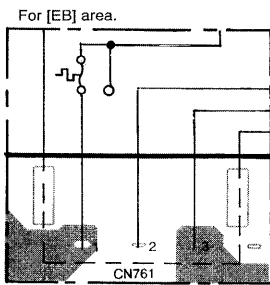
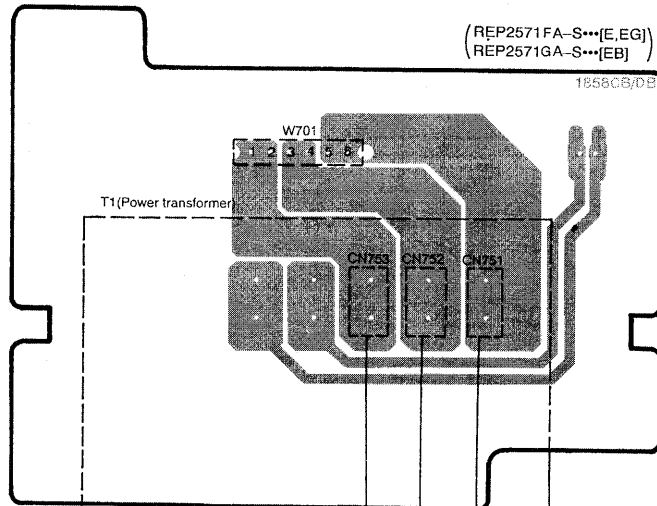
F LED (R ch) P.C.B.



G LED (L ch) P.C.B.



I POWER TRANSFORMER P.C.B.

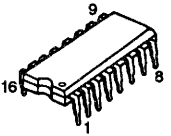
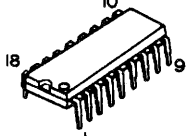
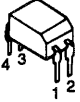
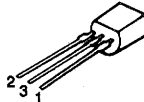
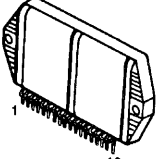
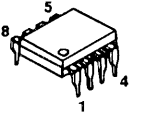
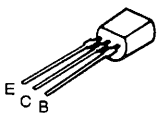
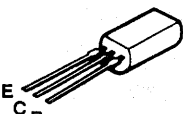
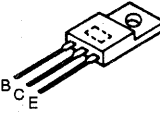

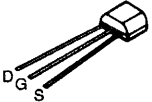
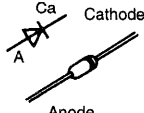
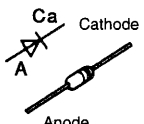
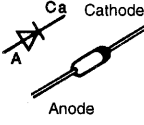
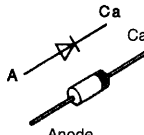
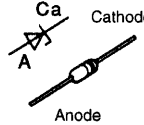
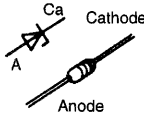
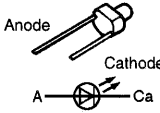


H POWER SUPPLY P.C.B.

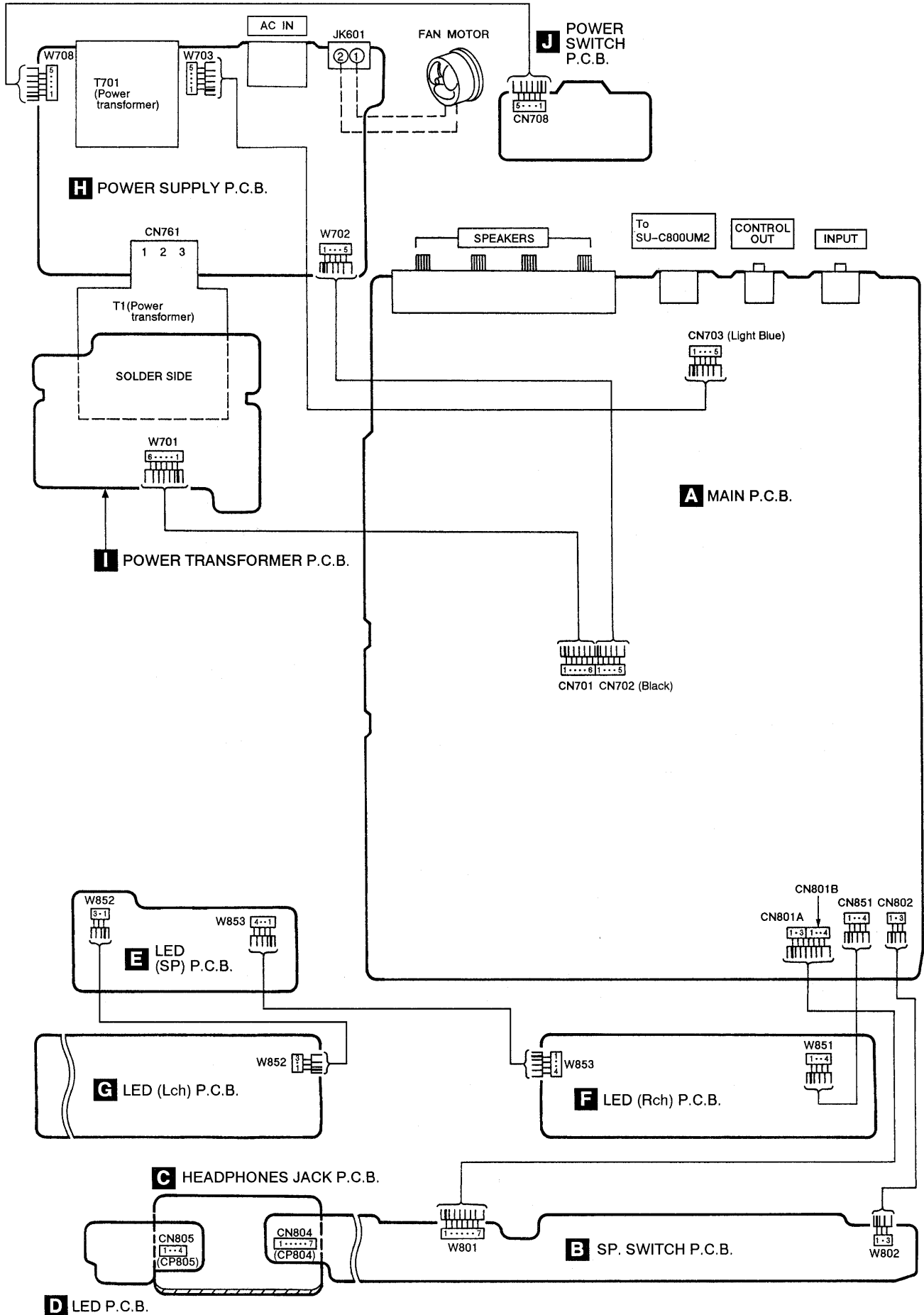
AC IN

(230V.....[E,EG]
230-240V...[EB])
50Hz

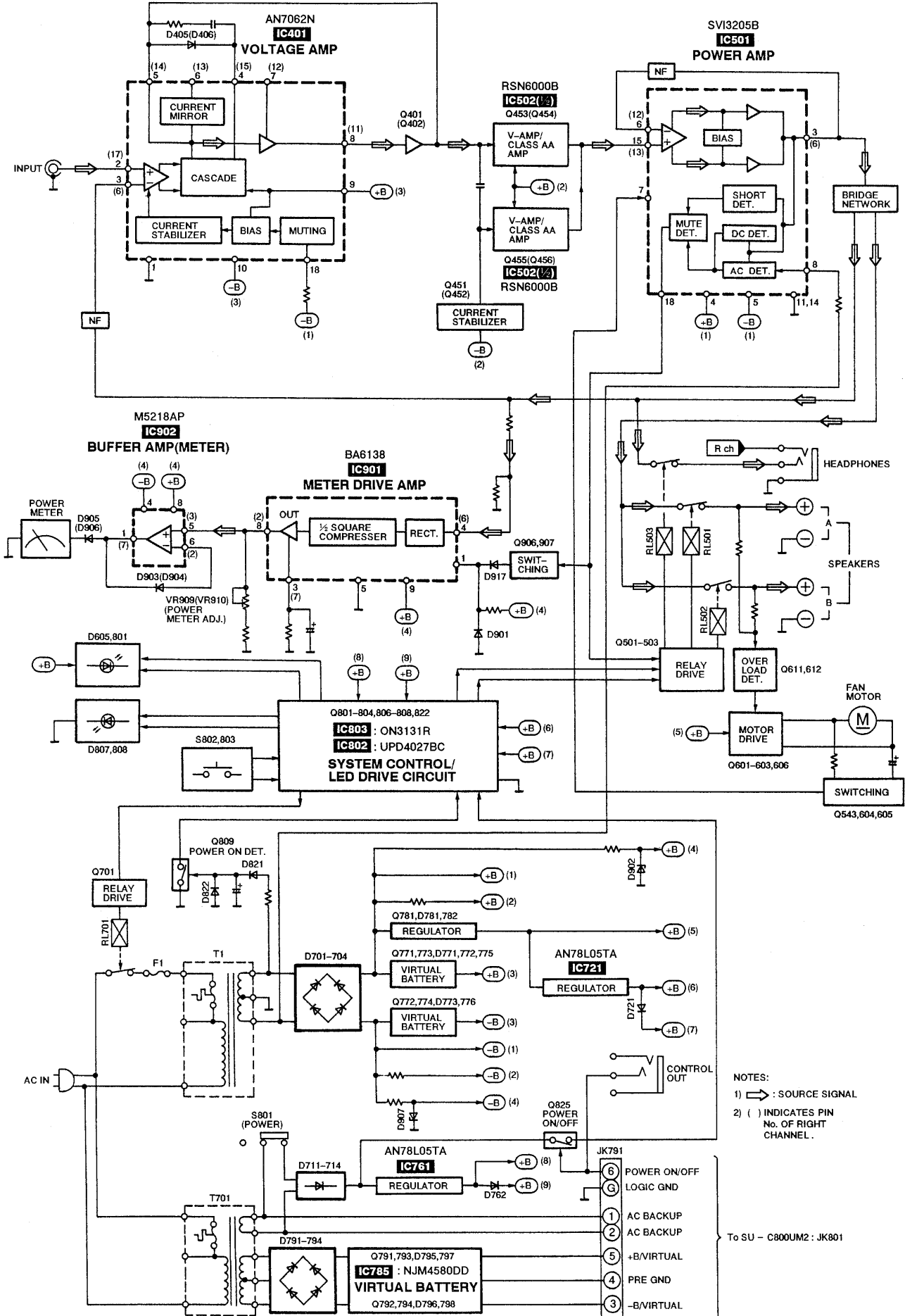
■ Type Illustration of IC's, Transistors and Diodes

<p>UPD4027BC</p> 	<p>AN7062N</p> 	<p>ON3131R</p> 	<p>AN78L05TA</p> 	<p>RSN6000A SVI3205B</p> 	<p>NJM4580DD</p> 
<p>2SA992EFPTA 2SA1123RSTTA 2SC2631RSTTA</p> 	<p>2SA1534AQRTA 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



■ Replacement Parts List (Electrical)

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.

*[M] Indicates in Remarks columns parts that are supplied by MESA.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT (S)		D453	MA29WA	DIODE	[M]
				D501, 502	MA165	DIODE	[M]
				D503, 504	MA4160M	DIODE	[M] Δ
IC401	AN7062N	IC	[M]	D505	MA165	DIODE	[M]
IC501	SV13205B	IC	[M] Δ	D506	1SS291TA	DIODE	[M]
IC502	RSN6000A	IC	[M]	D601	MA165	DIODE	[M]
IC721	AN78L05TA	IC	[M] Δ	D602	MA4068L	DIODE	[M]
IC761	AN78L05TA	IC	[M] Δ	D603, 604	MA165	DIODE	[M]
IC785	NJM4580DD	IC	[M]	D605	SLR-305VC	LED	[M]
IC802	UPD4027BC	IC	[M]	D701-704	P300DLF	DIODE	[M] Δ
IC803	ON3131R	IC	[M]	D706	MA165	DIODE	[M]
		TRANSISTOR (S)		D711-714	1SR35200TB	DIODE	[M] Δ
				D721	MA165	DIODE	[M]
				D731-742	SLR-305DC	LED	[M]
Q401, 402	2SA1123RSTTA	TRANSISTOR	[M]	D752	MA4160M	DIODE	[M] Δ
Q451, 452	2SC2631RSTTA	TRANSISTOR	[M]	D762	MA165	DIODE	[M]
Q453, 454	2SC3311AIRTA	TRANSISTOR	[M]	D781	MA4160M	DIODE	[M] Δ
Q455, 456	2SA1309AIRTA	TRANSISTOR	[M]	D782	MA165	DIODE	[M]
Q501-503	2SA992EFPTA	TRANSISTOR	[M]	D791-794	1SR35200TB	DIODE	[M] Δ
Q543	2SA1309AIRTA	TRANSISTOR	[M]	D795, 796	MA4140M	DIODE	[M] Δ
Q601, 602	2SC3311AIRTA	TRANSISTOR	[M]	D797, 798	MA165	DIODE	[M]
Q603	2SC3940AQSTA	TRANSISTOR	[M]	D801	SLR-305VC	LED	[M]
Q604-606	2SC3311AIRTA	TRANSISTOR	[M]	D802, 803	MA165	DIODE	[M]
Q611, 612	2SC3311AIRTA	TRANSISTOR	[M]	D806	MA165	DIODE	[M]
Q701	2SC3311AIRTA	TRANSISTOR	[M]	D809-812	MA165	DIODE	[M]
Q781	2SD2374PQAU	TRANSISTOR	[M] Δ	D813, 814	MA4082MTA	DIODE	[M] Δ
Q791	2SK330GRYTA	TRANSISTOR	[M] Δ	D815, 816	SLR-305VC	LED	[M]
Q792	2SJ105GRYTA	TRANSISTOR	[M] Δ	D821	MA167	DIODE	[M] Δ
Q793	2SC3940AQSTA	TRANSISTOR	[M] Δ	D822-824	MA165	DIODE	[M]
Q794	2SA1534QRTA	TRANSISTOR	[M] Δ			COIL (S)	
Q801, 802	UN4215	TRANSISTOR	[M]				
Q803, 804	UN4111	TRANSISTOR	[M]	L1	SLQZ650MH49	COIL	[M] Δ
Q806, 807	UN4111	TRANSISTOR	[M]	L401, 402	RLQA100JT-Y	COIL	[M]
Q808	2SA1309AIRTA	TRANSISTOR	[M]	L403	BL02RN1R62T2	COIL	[M]
Q809	2SC3311AIRTA	TRANSISTOR	[M]	L501-504	SLQY18G-10	COIL	[M]
Q810	UN4111	TRANSISTOR	[M]	L791-797	ELEXT1R0KA9	COIL	[M]
Q822	UN4215	TRANSISTOR	[M]			POWER TRANSFORMER (S)	
Q825	UN4111	TRANSISTOR	[M]				
		DIODE (S)		T1	RTP1P5B006	POWER TRANSFORMER	[M] Δ
D401, 402	MA167	DIODE	[M]	T701	RTP1J5B001	POWER TRANSFORMER	[M] Δ
D403, 404	MA4036MTA	DIODE	[M]			FUSE (S)	
D405, 406	MA165	DIODE	[M]				
D451	MA165	DIODE	[M]	F1	XBA2C25TBO	FUSE, 250V, T2. 5A	[M] Δ
D452	MA4056MTA	DIODE	[M]				

■ Replacement Parts List (Resistors and Capacitors)

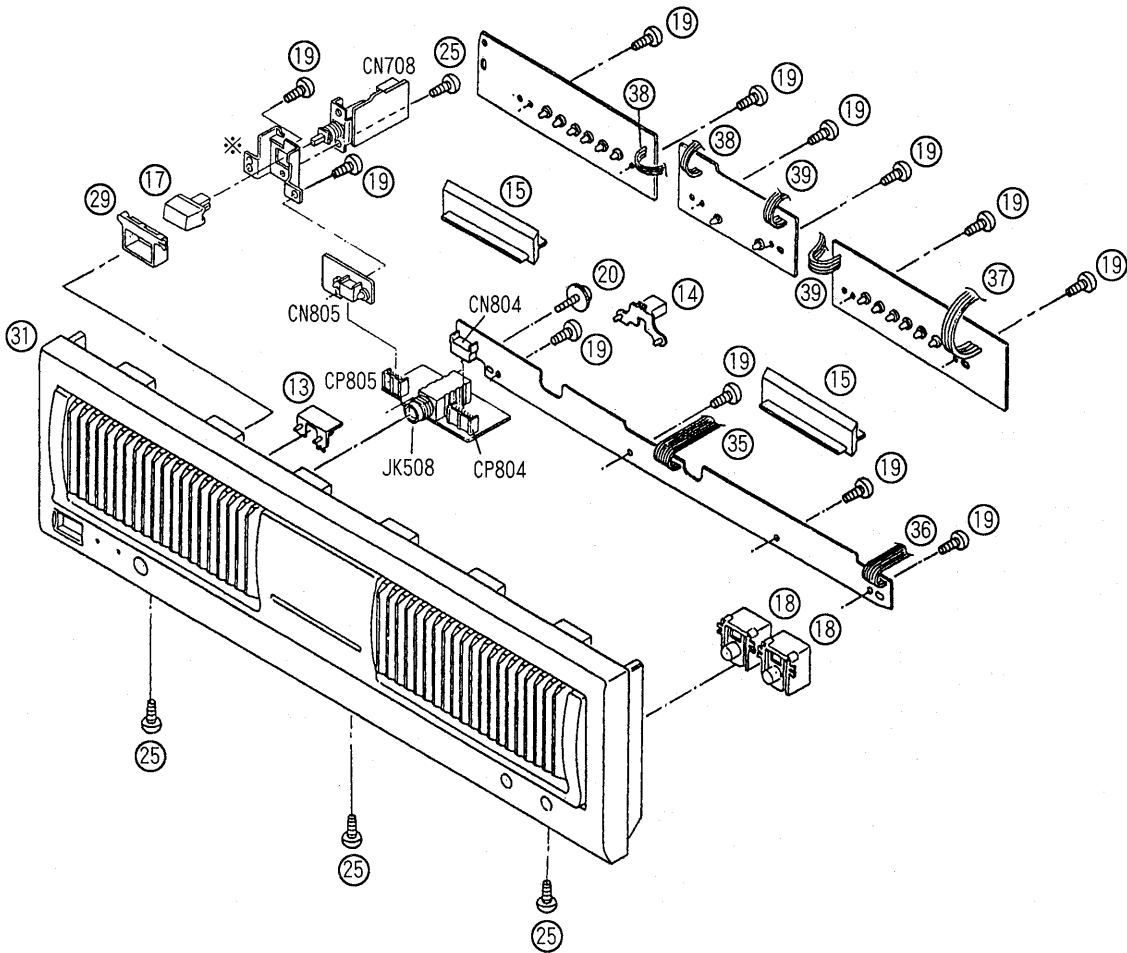
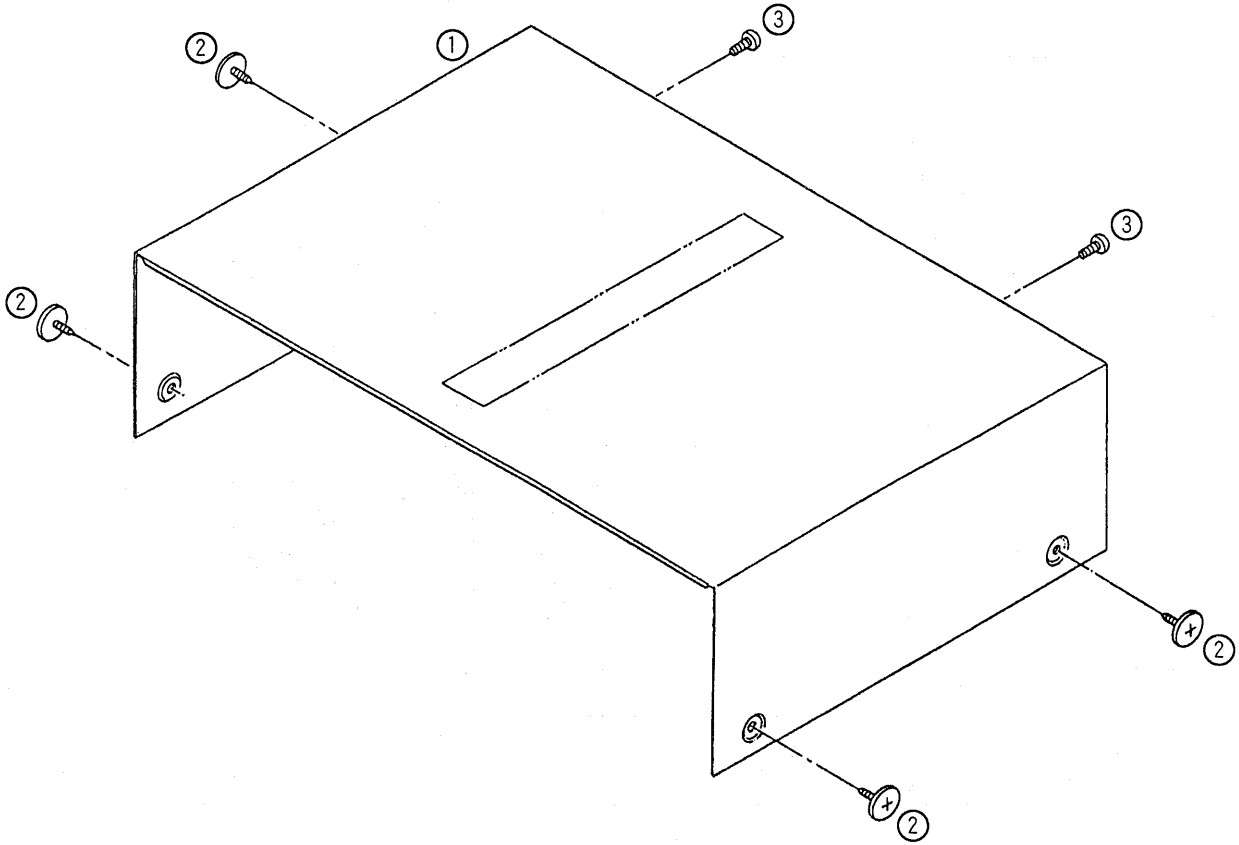
Ref. No.	Part No.	Part Name & Description	Remarks
		SWITCH(ES)	
S801	RSP2B023-A	SW	[M] △
S802, 803	EVQPTD05Q	SW	[M]
		CONNECTOR (S)	
CN701	RJS1A6606	CONNECTOR (6P)	[M]
CN702, 703	RJS1A6605	CONNECTOR (5P)	[M]
CN708	RJS1A6605	CONNECTOR (5P)	[M]
CN751-753	RJS1A1101T1	CONNECTOR (1P)	[M]
CN761	SJS305-1	CONNECTOR (3P)	[M]
CN771-776	RJS1A1101T1	CONNECTOR (1P)	[M]
CN778	RJS1A1101T1	CONNECTOR (1P)	[M]
CN802	RJS1A6603	CONNECTOR (3P)	[M]
CN804	RJU057W007	CONNECTOR (7P)	[M]
CN805	RJU057W004	CONNECTOR (4P)	[M]
CN851	RJS1A6604	CONNECTOR (4P)	[M]
CN801A	RJS1A6603	CONNECTOR (3P)	[M]
CN801B	RJS1A6604	CONNECTOR (4P)	[M]
CP804	RJT057W007-1	CONNECTOR (7P)	[M]
CP805	RJT057W004-1	CONNECTOR (4P)	[M]
		EARTH TERMINAL (S)	
E401	SNE1004-2	EARTH TERMINAL	[M]
E701	SNE1004-2	EARTH TERMINAL	[M]
		FUSE HOLDER	
FC1, 2	EYF52BC	FUSE HOLDER	[M]
		RELAY (S)	
RL501, 502	RSY0013M-0	RELAY	[M] △
RL503	RSY0020M-R	RELAY	[M]
RL701	RSY0019M-0	RELAY	[M] △
		JACK (S)	
JK1	SJS9236-1	AC INLET	[M] △
JK401	SJF3068-7N	JACK INPUT	[M]
JK501	RJH4801M-2	SPEAKER TERMINAL	[M]
JK502	RJJ63TA01	HEADPHONES JACK	[M]
JK601	RJS1A7402-1	CONNECTOR, FAN MOTOR	[M]
JK791	RJS1D0706	SOCKET (7P)	[M]
JK801	RJJ33T01	JACK, CONTROL OUT	[M]

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R401, 402	ERDS2FJ122	1/4W 1.2K [M]
R403, 404	ERDS2FJ823	1/4W 82K [M]
R405, 406	ERDS2FJ272	1/4W 2.7K [M]
R407, 408	ERDS2FJ823	1/4W 82K [M]
R411, 412	ERDS2FJ470	1/4W 47 [M]
R437	ERDS2FJ473	1/4W 47K [M]
R457	ERDS2FJ183	1/4W 18K [M]
R459, 460	ERDS2FJ101	1/4W 100 [M]
R461-464	ERDS2FJ333	1/4W 33K [M]
R465-468	ERDS2FJ101	1/4W 100 [M]
R469	ERDS2FJ103	1/4W 10K [M]
R470	ERDS2FJ102	1/4W 1K [M]
R471, 472	ERDS2FJ561	1/4W 560 [M]
R491, 492	ERDS2FJ823	1/4W 82K [M]
R501, 502	ERDS2FJ362	1/4W 3.6K [M]
R503, 504	ERDS2FJ121	1/4W 120 [M]
R505, 506	ERDS2FJ392	1/4W 3.9K [M]
R507, 508	ERDS2FJ121	1/4W 120 [M]
R513-516	ERDS2FJ100	1/4W 10 [M]
R519, 520	ERX1SJ3R3	1W 3.3 [M]
R521, 522△	ERDS1FJ100	1/2W 10 [M]
R527	ERDS2FJ223	1/4W 22K [M]
R528	ERDS2FJ684	1/4W 680K [M]
R529	ERDS2FJ124	1/4W 120K [M]
R530△	ERDS1FJ472	1/2W 4.7K [M]
R531, 532△	ERDS1FJ100	1/2W 10 [M]
R533, 534	ERDS2FJ103	1/4W 10K [M]
R535	ERDS2FJ562	1/4W 5.6K [M]
R536	ERDS2FJ470	1/4W 47 [M]
R537	ERDS2FJ101	1/4W 100 [M]
R544	ERDS2FJ103	1/4W 10K [M]
R545	ERDS2FJ823	1/4W 82K [M]
R550, 551	ERDS2FJ222	1/4W 2.2K [M]
R555-558	ERG1SJ681	1W 680 [M]
R559	ERG1SJ152	1W 1.5K [M]
R560	ERG1SJ182	1W 1.8K [M]
R561, 562	ERG1SJ151	1W 150 [M]
R563, 564	ERG1SJ181	1W 180 [M]
R565-570	ERDS2FJ223	1/4W 22K [M]
R577, 578	ERDS2FJ682	1/4W 6.8K [M]
R579	ERDS2FJ471	1/4W 470 [M]
R601-604	ERDS2FJ223	1/4W 22K [M]
R605	ERDS2FJ473	1/4W 47K [M]
R606	ERDS2FJ104	1/4W 100K [M]
R607	ERDS2FJ103	1/4W 10K [M]
R608	ERDS2FJ223	1/4W 22K [M]

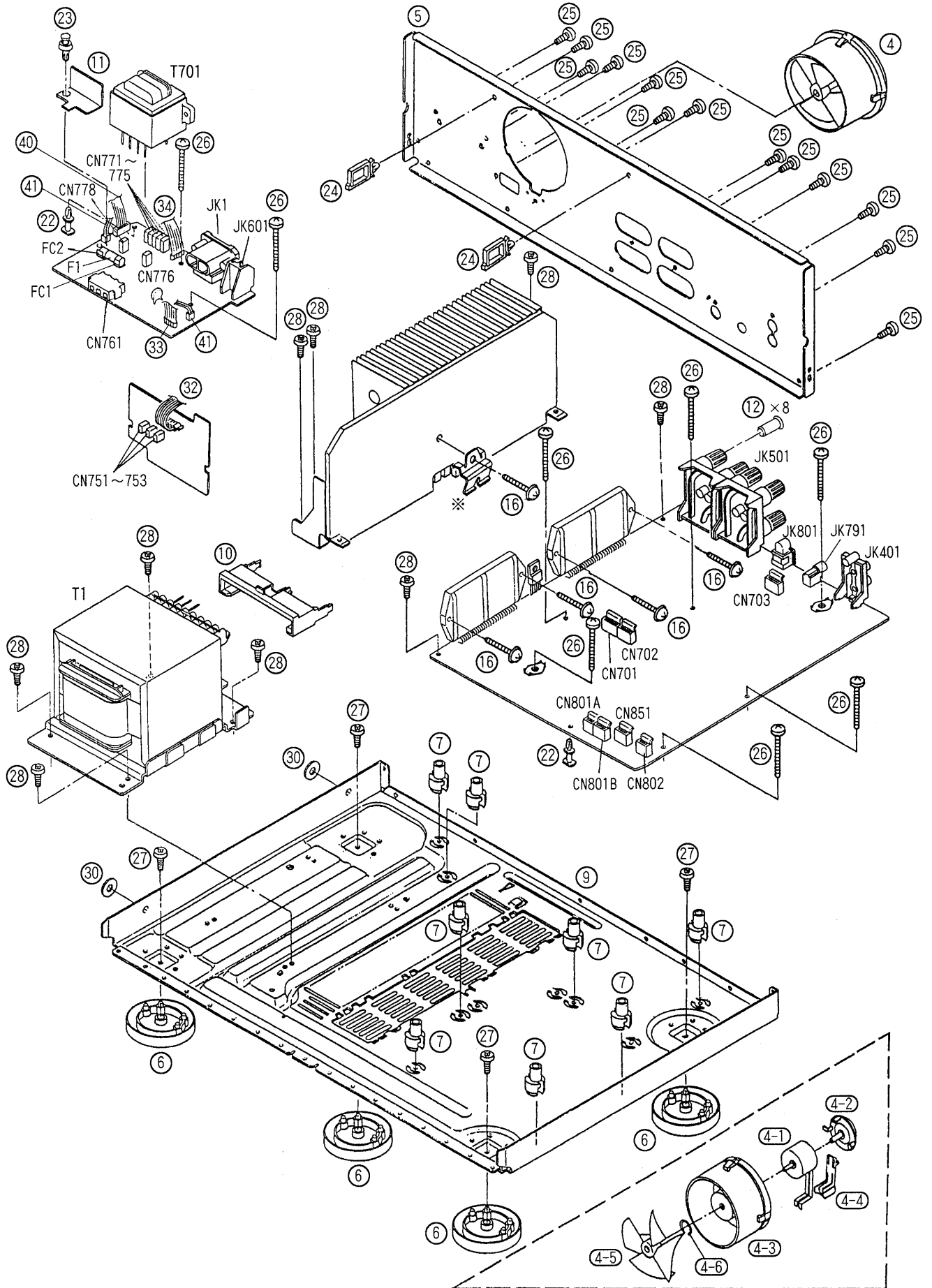
Notes : * Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
 * Resistance values are in ohms, unless specified otherwise, 1K=1,000(OHM) , 1M=1,000k(OHM)

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
R609	ERDS2FJ332	1/4W 3.3K [M]	C401, 402	ECA1HPXS4R7B	50V 4.7U [M]	C778	ECA1EPX470TB	25V 47U [M]
R610	ERDS2TJ335T	1/4W 3.3M [M]	C403, 404	ECKD1H471KB	50V 470P [M]	C781	ECBT1H102KB5	50V 1000P [M]
R611	ERDS2FJ473	1/4W 47K [M]	C405, 406	ECA1EPXS470B	25V 47U [M]	C782, 783	ECEA1EKA100B	25V 10U [M]
R612	ERDS2FJ153	1/4W 15K [M]	C407, 408	ECBT1H820KB5	50V 82P [M]	C787, 788	ECCR1H221J5	50V 220P [M]
R613	ERDS2FJ473	1/4W 47K [M]	C409, 410	ECCR2H220J5	500V 22P [M]	C789, 790	ECA1HPXS100B	50V 10U [M]
R614	ERDS2FJ683	1/4W 68K [M]	C413, 414	ECCV2H070D	500V 7P [M]	C791, 792△	ECA1VPT102ZE	35V 1000U [M]
R615	ERDS2FJ103	1/4W 10K [M]	C415, 416	ECBT1H102KB5	50V 1000P [M]	C793, 794	ECA1HBX3R3B	50V 3.3U [M]
R616△	ERDS1FJ220	1/2W 22 [M]	C426	ECQB1H102JF3	50V 1000P [M]	C795-798	ECA1EPXS470B	25V 47U [M]
R617	ERDS2FJ222	1/4W 2.2K [M]	C427	ECQV1H223JZ3	50V 0.022U [M]	C799	ECKR2H103ZU	500V 0.01U [M]
R618	ERDS2FJ103	1/4W 10K [M]	C428	ECHR1H103JZ3	50V 0.01U [M]	C804	ECBT1H104ZF5	50V 0.1U [M]
R621	ERDS2FJ223	1/4W 22K [M]	C451, 452	ECKR1H333ZF5	50V 0.033U [M]	C805	RCE1CKA100BG	16V 10U [M]
R622	ERDS2FJ100	1/4W 10 [M]	C453-456	ECCV2H680K	500V 68P [M]	C807	RCE1CKA100BG	16V 10U [M]
R623	ERDS2FJ823	1/4W 82K [M]	C457-460	RCE1HKA3R3BG	50V 3.3U [M]	C808-810	ECBT1H104ZF5	50V 0.1U [M]
R701△	ERDS2FJ100	1/4W 10 [M]	C461, 462	ECBT1H102KB5	50V 1000P [M]	C821△	ECEA1EKA100B	25V 10U [M]
R702	ERDS2FJ222	1/4W 2.2K [M]	C463-465	ECBT1H104ZF5	50V 0.1U [M]			
R707, 708	ERDS2FJ6R8	1/4W 6.8 [M]	C491, 492	ECKT1H101KB	50V 100P [M]			
R721	ERDS2FJ221	1/4W 220 [M]	C501-504	ECA0JPXS101B	6.3V 100U [M]			
R731, 732	ERDS2FJ331	1/4W 330 [M]	C505, 506	ECQV1H473JM3	50V 0.047U [M]			
R753△	ERDS1FJ222	1/2W 2.2K [M]	C507	ECA1EMI01B	25V 100U [M]			
R763	ERDS2FJ221	1/4W 220 [M]	C508	ECA1HM470B	50V 47U [M]			
R771	ERDS2FJ470	1/4W 47 [M]	C509	ECEA1HN100SB	50V 10U [M]			
R772△	ERDS1FJ222	1/2W 2.2K [M]	C511, 512	ECBT1H560J5	50V 56P [M]			
R781△	ERDS1FJ472	1/2W 4.7K [M]	C513-518	ECQV1H473JM3	50V 0.047U [M]			
R782, 783△	ERDS1FJ560	1/2W 56 [M]	C519-522	ECQB1H223JF3	50V 0.022U [M]			
R787, 788	ERDS2FJ102	1/4W 1K [M]	C523, 524	ECBT1H102KB5	50V 1000P [M]			
R789, 790	ERDS2FJ333	1/4W 33K [M]	C525, 526	ECBT1C272KR5	16V 2700P [M]			
R791, 792	ERDS2FJ1R0	1/4W 1 [M]	C527, 528	ECBT1H181KB5	50V 180P [M]			
R793, 794	ERDS2FJ103	1/4W 10K [M]	C533	ECBT1C103NS5	16V 0.01U [M]			
R795, 796	ERDS2FJ105	1/4W 1M [M]	C601	ECEA1HKA2R2B	50V 2.2U [M]			
R801	ERDS2FJ221	1/4W 220 [M]	C602	ECBT1E223ZF	25V 0.022U [M]			
R802	ERDS2FJ562	1/4W 5.6K [M]	C603	ECEA0JKA221B	6.3V 220U [M]			
R807, 808	ERDS2FJ223	1/4W 22K [M]	C604	RCE1CKA100BG	16V 10U [M]			
R809	ERDS2FJ823	1/4W 82K [M]	C611	ECEA0JKA221B	6.3V 220U [M]			
R810, 811	ERDS2FJ223	1/4W 22K [M]	C701, 702△	ECESX56822UM	56V 8200U [M]			
R813, 814	ERDS2FJ223	1/4W 22K [M]	C707, 708	ECA1JPXH560E	63V 56U [M]			
R815, 816	ERDS2FJ391	1/4W 390 [M]	C709, 710	ECQE2334KFW	250V 0.33U [M]			
R817	ERDS2FJ103	1/4W 10K [M]	C711	ECQE2104KF3	250V 0.1U [M]			
R821	ERDS2FJ103	1/4W 10K [M]	C712	ECBT1C103NS5	16V 0.01U [M]			
R822	ERDS2FJ222	1/4W 2.2K [M]	C713	ECKR1H103ZF5	50V 0.01U [M]			
R823	ERDS2FJ562	1/4W 5.6K [M]	C714△	ECA1EMI02E	25V 1000U [M]			
R824	ERDS2FJ154	1/4W 150K [M]	C715, 716	ECBT1C103NS5	16V 0.01U [M]			
R825	ERDS2FJ223	1/4W 22K [M]	C721	ECEA1EKA100B	25V 10U [M]			
R826	ERDS2FJ102	1/4W 1K [M]	C722	RCE1CKA100BG	16V 10U [M]			
R854	ERDS2FJ391	1/4W 390 [M]	C723	ECA0JM222B	6.3V 2200U [M]			
R931, 932	ERG1S.J271	1W 270 [M]	C751△	ECKWNS102MBM	400V 1000P [M]			
R933△	ERDS1FJ101	1/2W 100 [M]	C762	ECEA1EKA100B	25V 10U [M]			
			C763	RCE1CKA100BG	16V 10U [M]			
		CAPACITORS	C764	ECA0JM222B	6.3V 2200U [M]			
			C777	ECA1JPX470TB	63V 47U [M]			

■ Cabinet Parts Location



We do not supply the items of the parts marked ※



■ Replacement Parts List (Cabinet, Packing Materials and Accessories)

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS	
1	RKM0219F-K	CABINET	[M]
2	SNE2129-1	SCREW	[M]
3	XTBS3+8JFZ1	SCREW	[M]
4	REMO020-1	FAN ASS'Y	[M]
4-1	MDN-4RB4MRC	FAN MOTOR	[M]
4-2	RMQ0208-K	FAN MOTOR COVER	[M]
4-3	RMQ0209-K	FAN CASE	[M]
4-4	RMQ0212-K	FAN TERMINAL	[M]
4-5	SHE232-1	FAN	[M]
4-6	SUS271	SPRING	[M]
5	RGR0227H-AA	REAR PANEL	[M] (E/EG)
5	RGR0227H-BA	REAR PANEL	[M] (EB)
6	RKA0053-A	FOOT	[M]
7	RKQ0089-2	P. C. B. SUPPORT	[M]
9	RMK0200-3	BOTTOM CHASSIS	[M]
10	RMN0217	HOLDER	[M]
11	RMZ0354	COVER	[M]
12	RMR1110-K	COVER	[M]
13	RGL0301-Q	PANEL LIGHT A	[M]
14	RGL0302-Q	PANEL LIGHT B	[M]
15	RGL0303-Q	PANEL LIGHT C	[M]
16	XTW3+15T	SCREW	[M]
17	RGU0890-K	BUTTON, POWER	[M]
18	RGU1271-K	BUTTON, SPEAKER	[M]
19	RHD26017	SCREW	[M]
20	RHD26018	SCREW	[M]
22	SHR8006	SPACER	[M]
23	SHR9112	SPACER	[M]
24	SHR9814	CLAMPER	[M]
25	XTBS3+8JFZ1	SCREW	[M]
26	XTB3+20JFZ	SCREW	[M]
27	XTB3+6G	SCREW	[M]
28	XTB3+8JFZ	SCREW	[M]
29	RMR1096-K	BUTTON, SLEEP	[M]
30	RMG0332-K	RUBBER	[M]
31	RFKGEA800SME	FRONT PANEL ASS'Y	[M]
32	RWJ3906440QQ	FLAT CABLE (6P) (W701)	[M]
33	RWJ1805480QQ	FLAT CABLE (5P) (W702)	[M]
34	RWJ3905390QQ	FLAT CABLE (5P) (W703)	[M]
35	RWJ1807220KX	FLAT CABLE (7P) (W801)	[M]
36	RWJ1803090KX	FLAT CABLE (3P) (W802)	[M]
37	RWJ1804130KX	FLAT CABLE (4P) (W851)	[M]
38	RWJ1803100KK	FLAT CABLE (3P) (W852)	[M]
39	RWJ1804100KK	FLAT CABLE (4P) (W853)	[M]
40	RFKEEA1000EA	WIRE ASS'Y (5P) (W708)	[M]
41	RFKEEA1000EB	WIRE ASS'Y (2P) (W709)	[M]
		PACKING MATERIALS	

Ref. No.	Part No.	Part Name & Description	Remarks
P1	RPG3541	PACKING CASE (SYSTEM)	[M] (E)
P1	RPG3542	PACKING CASE (SYSTEM)	[M] (EB/EG)
P2	RPQ0573	SPACER	[M]
P3	RPQ0822	SPACER	[M]
P4	RPG3543	PACKING CASE	[M]
P5	RPG3544	PACKING CASE (SU-C800UM2)	[M]
P6	RPN0752	PAD	[M]
P7	RPN0917	PAD (SU-C800UM2)	[M]
P8	SPP730	SHEET	[M]
P9	SPP756	SHEET (SU-C800UM2)	[M]
P10	RPQ0164	PAD	[M]
P11	RPF0139	SHEET	[M]
P12	RPH0032	MIRROR SHEET	[M] (EB)
		ACCESSORIES	
A1	RAK-SU228WH	REMOTE CONTROL TRANSMITTER	[M]
A1-1	RKK0057-K	BATTERY COVER	[M]
A2	RQA0117	WARRANTY CARD	[M]
A3	RQCB0169	SERVICE CENTER LIST	[M]
A4<IA>	RQT4016-E	INSTRUCTION MANUAL	[M] (E)
A4<IB>	RQT4019-R	INSTRUCTION MANUAL	[M] (E)
A4<IC>	RQT4015-B	INSTRUCTION MANUAL	[M] (EB)
A4<ID>	RQT4017-D	INSTRUCTION MANUAL	[M] (EG)
A4<IE>	RQT4018-H	INSTRUCTION MANUAL	[M] (EG)
A5	RJA0019-2K	AC POWER SUPPLY CORD	[M] (E/EG)
A5	RJA0049-K	AC POWER SUPPLY CORD	[M] (EB)
A6	SJP2276	PIN CORD	[M]
A7	RJL6D001B10	AMP. CONNECTION CABLE	[M]

NOTE: The "<IA>, <IB>, <IC>, <ID>, <IE>" marks in Remarks indicate language of instruction manual.
 <IA>: English, Spanish, Swedish
 <IB>: Russian, Polish, Czech
 <IC>: English
 <ID>: German, Italian, French
 <IE>: Dutch, Danish

■ Packaging

