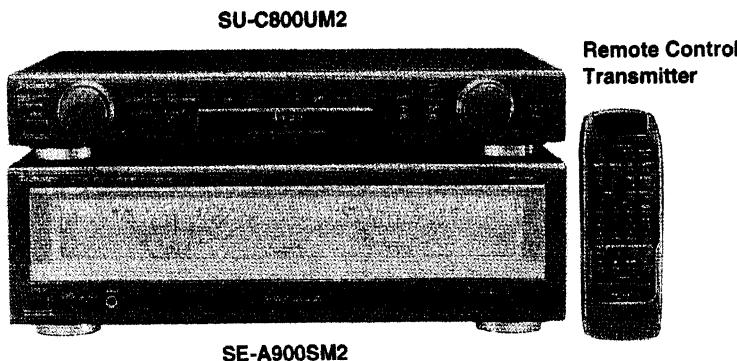


Service Manual

Amplifier
Power Amplifier
SE-A900SM2



Colour
(K).....Black Type

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

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

System: SU-A900DM2

Control amplifier	SU-C800UM2
Power amplifier	SE-A900SM2

Specifications (DIN 45 500)

20 Hz – 20 kHz continuous power output both channels driven	2 × 70 W (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 (THD) 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	4 Ω – 16 Ω
A or B, BI-WIRING A and B 8 Ω – 16 Ω	1 V/33 kΩ
Input sensitivity/impedance	95 dB (110 dB, IHF '66)
S/N (rated power, 4 Ω)	5 Hz – 70 kHz (+0, -3 dB)
Frequency response	+0 dB, -0.5 dB (20 Hz – 20 kHz)

■ GENERAL

Power supply	AC 50 Hz, 230 V
For (E) and (EG) areas	AC 50 Hz, 230 V – 240 V
For (EB) area	285 W
Power consumption	430 × 136 × 344 mm
Dimensions (W × H × D)	9.8 kg
Weight	

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.

⚠ WARNING

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

Technics®

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■ Before Repair

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

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

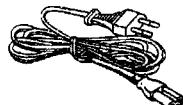
1. Switch OFF the power.
2. Determine the cause of the cause of the problem and correct it.
3. Switch ON the power once again.

Note:

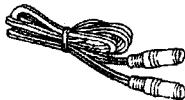
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

■ 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

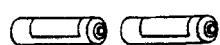
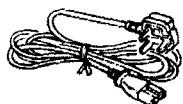


• Stereo connection cable
(SJP2276) 1



• 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.

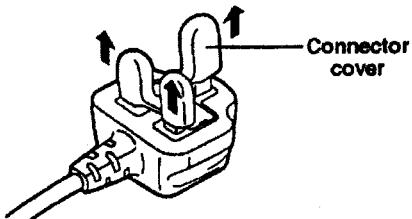
This apparatus was produced to BS 800.

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 .

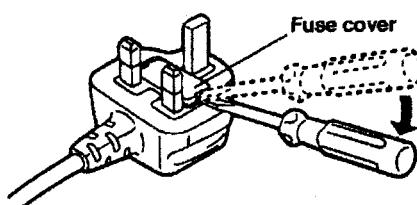
Before use

Remove the connector cover as follows.

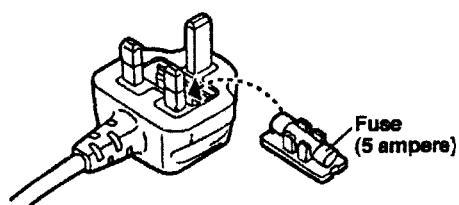


How to replace the fuse

1. Remove the fuse cover with a screwdriver.



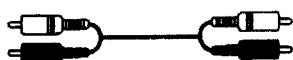
2. Replace the fuse and attach the fuse cover.



■ Connections

Stereo connection cable

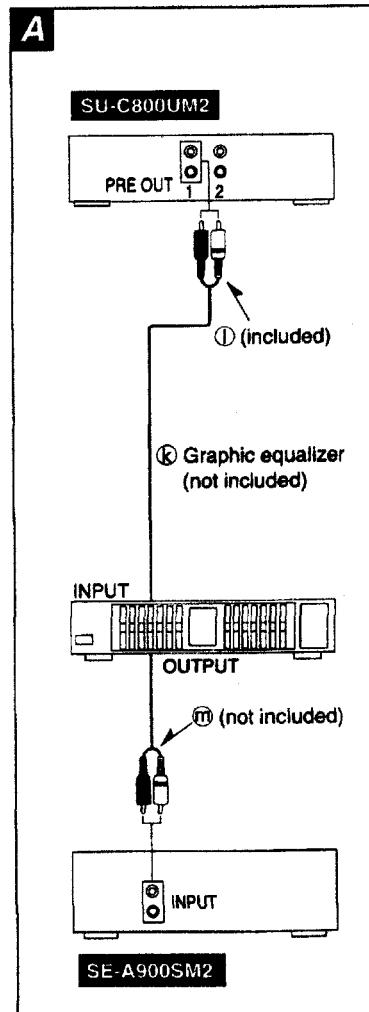
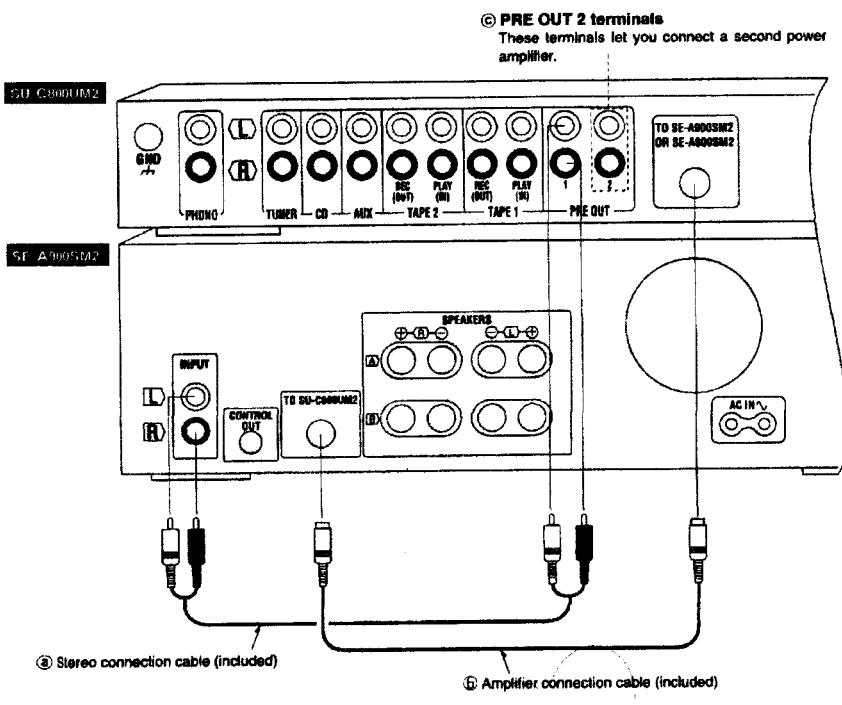
White (L) Blanco (L) Vit (L)



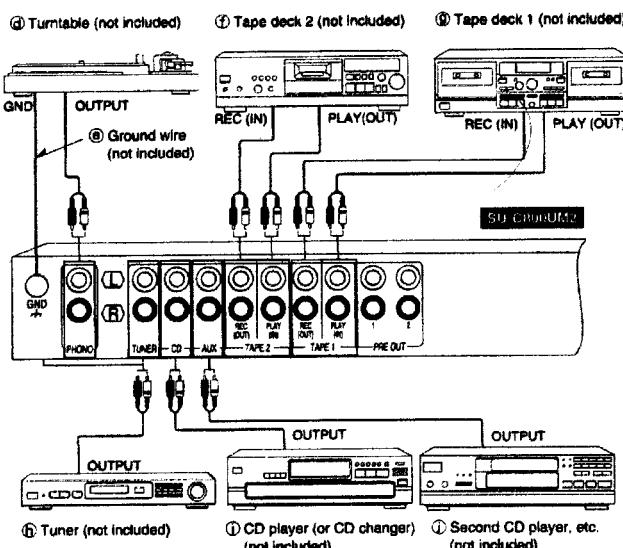
- Make sure that the power supply for all components has been turned off before making any connections.
- Connect the power cord to the amplifier only after all other connections between components have been made.

The symbols (Ⓐ, Ⓑ, Ⓒ etc.) used in this diagram are inserted for reference when using the companion volume.

1 Control amplifier and power amplifier connections

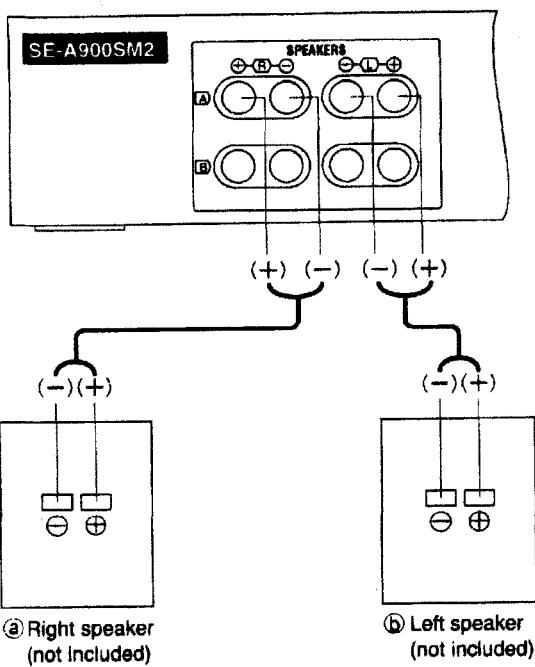


2 Component connections



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.

A**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 B**

- 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

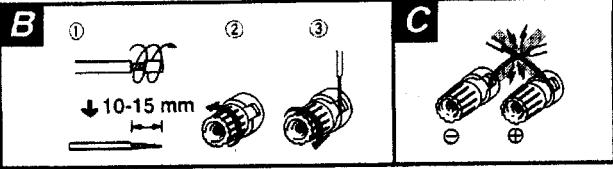
For connection to a second pair of speakers.

■ 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 C

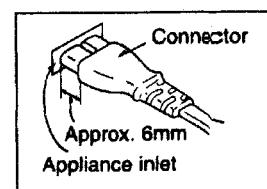
To prevent damage to circuitry, never short-circuit the positive (+) and negative (−) speaker wires.

**Connecting the power supply**

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

Insertion of Connector

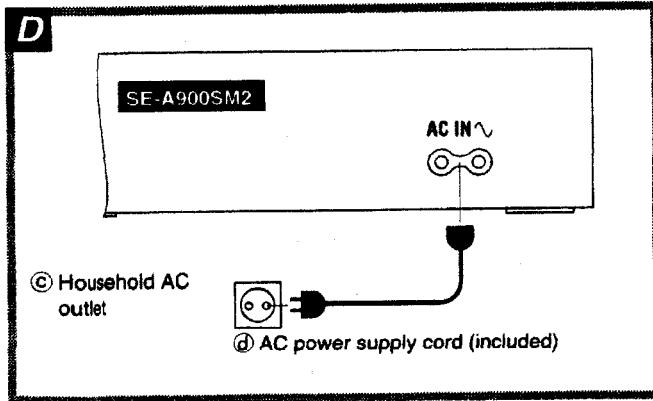
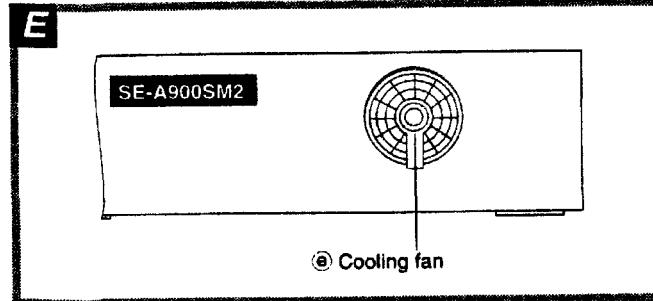
Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing.

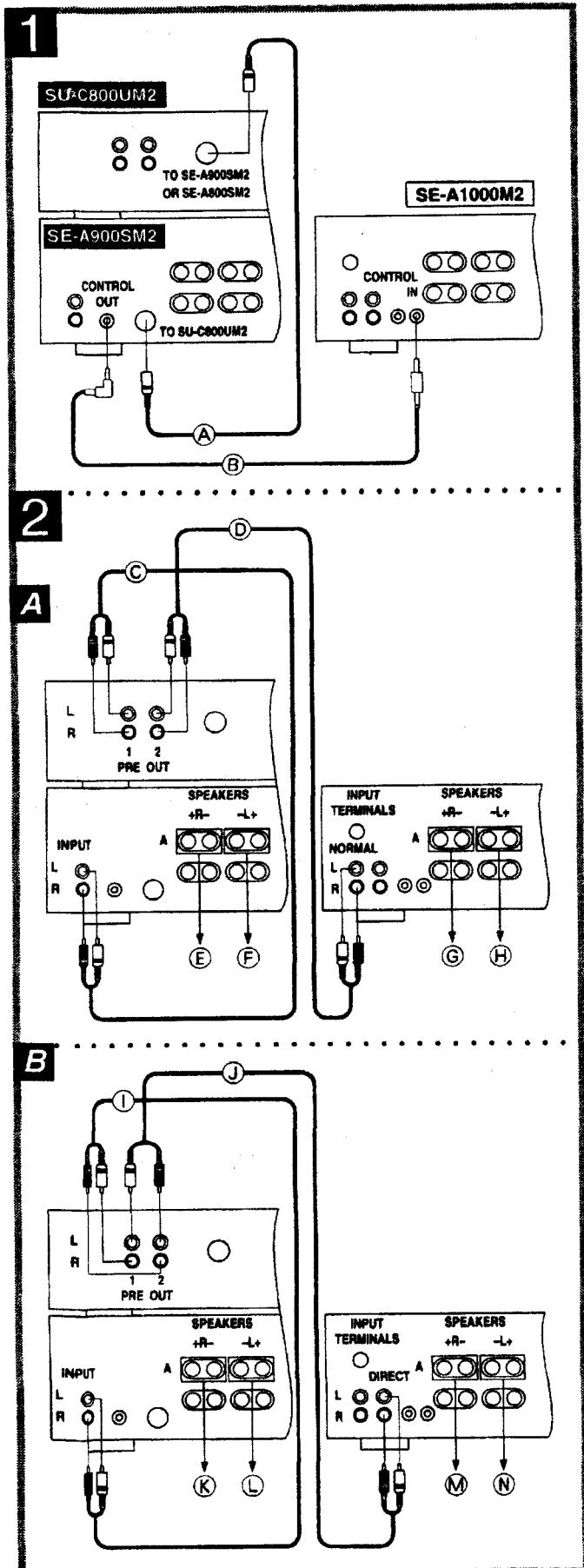


However there is no problem using the unit.

Cooling fan

The cooling fan operates at high power output levels only.

D**E**

**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

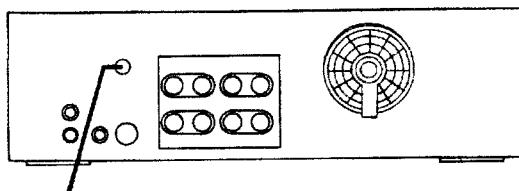
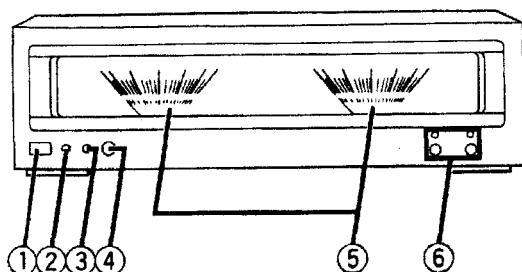
Example 2 [B]

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 Power meters

The power meter lights are turned on by pressing the POWER METER LIGHT button on the amplifier rear.

⑥ Speaker select buttons/indicators (SPEAKERS)

■ Operation Check and Main Component Replacement Procedures

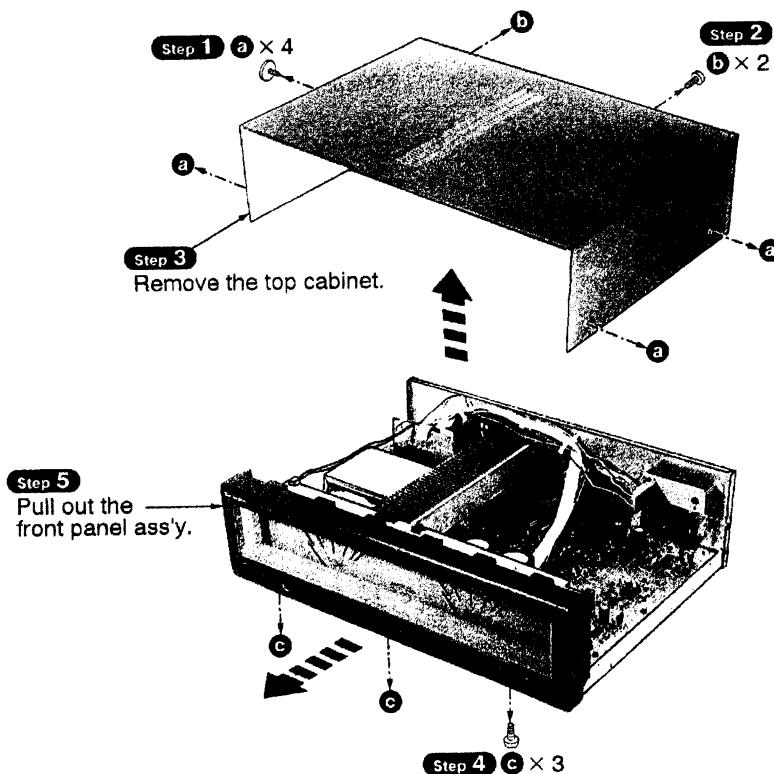
NOTE

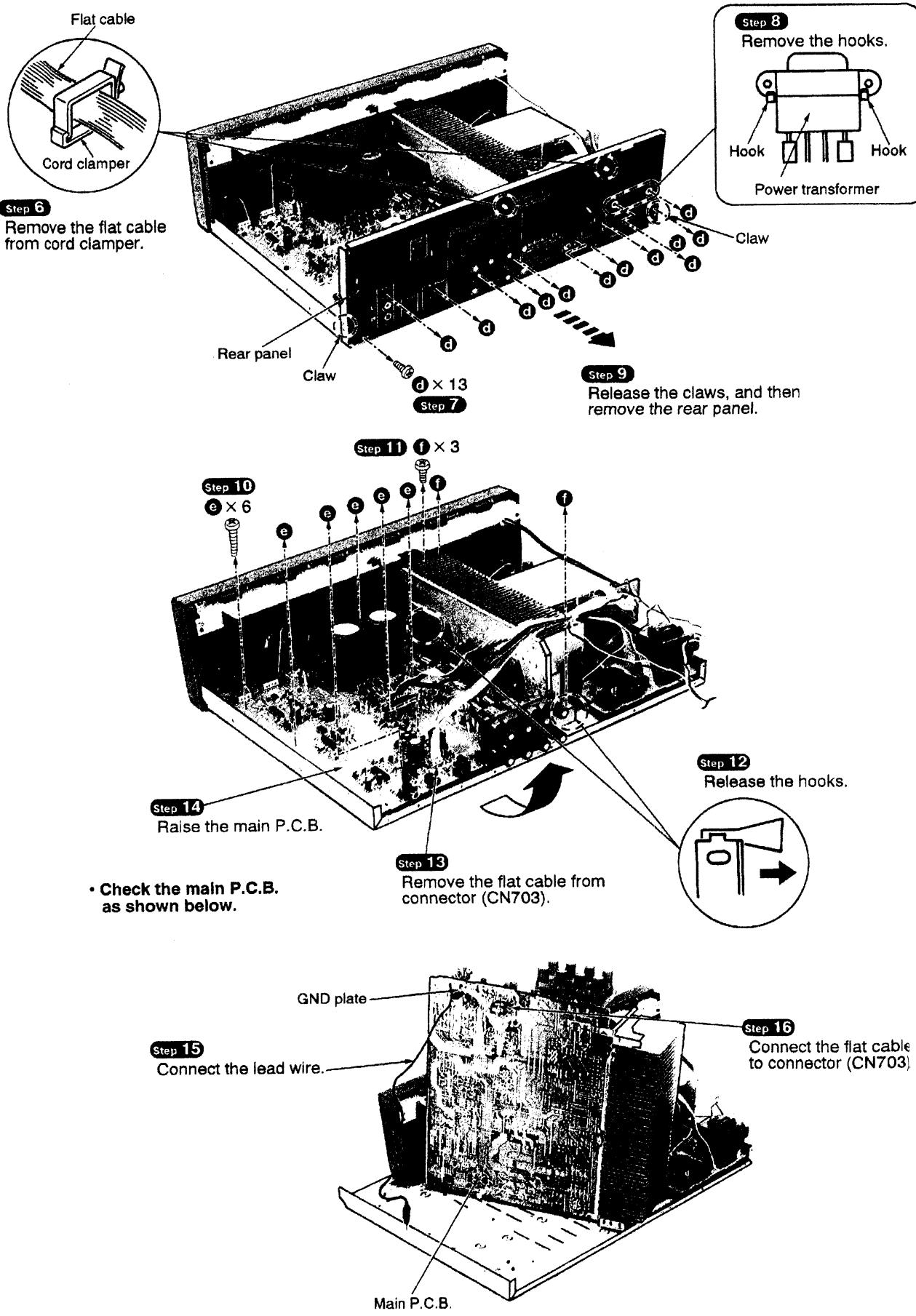
1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.
3. Select 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.

• Contents

	Page.
• Checking Procedure for each P.C.B.	
1. Checking for the main P.C.B.	8,9.
• Main Component Replacement Procedures	
1. Replacement for the meter ass'y.	10.
2. Replacement for the power IC and regulator transistor.	10,11.
3. Replacement for the fan motor.	11.

■ Checking Procedure for each P.C.B.

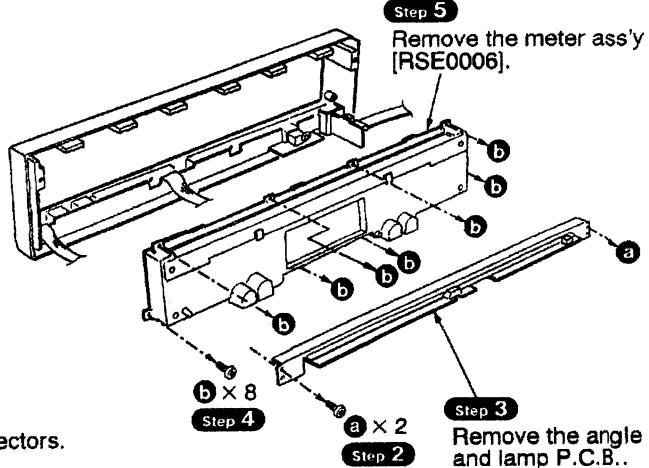
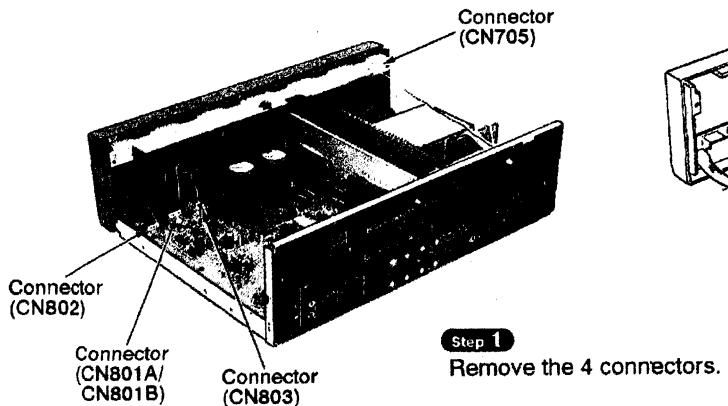
1. Checking for the main P.C.B.




■ Main Component Replacement Procedures

1. Replacement for the meter ass'y

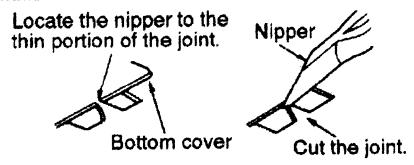
- Follow the **Step 1** ~ **Step 5** in item 1 on checking procedure for each P.C.B. on page 8.



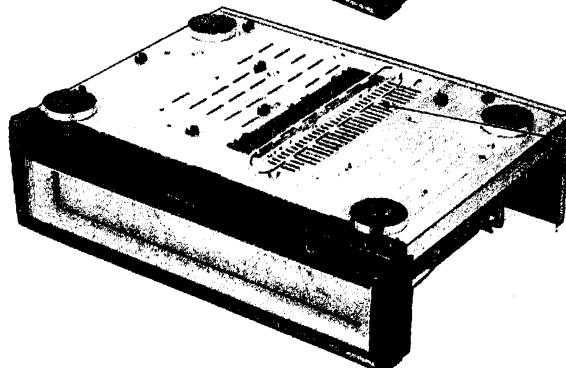
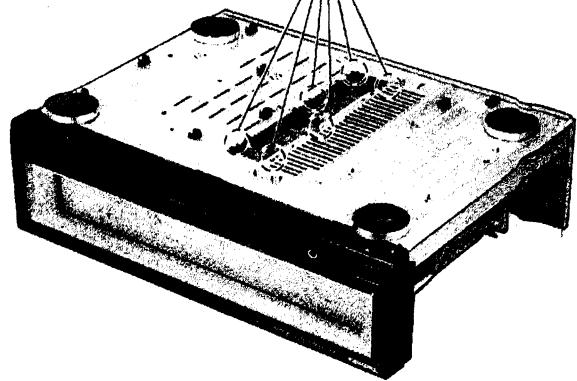
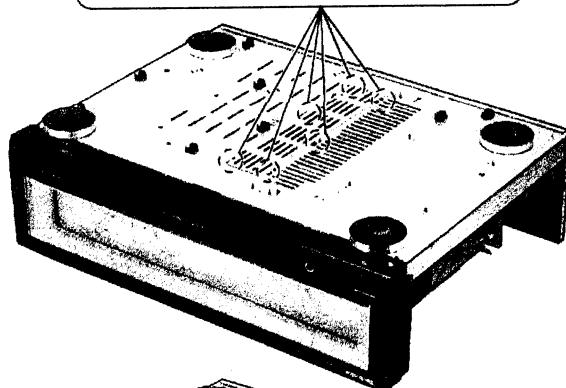
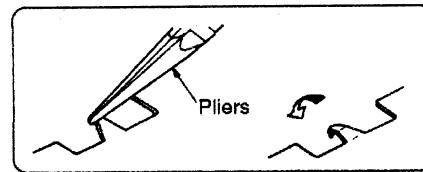
2. Replacement for the power IC and regulator transistor

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

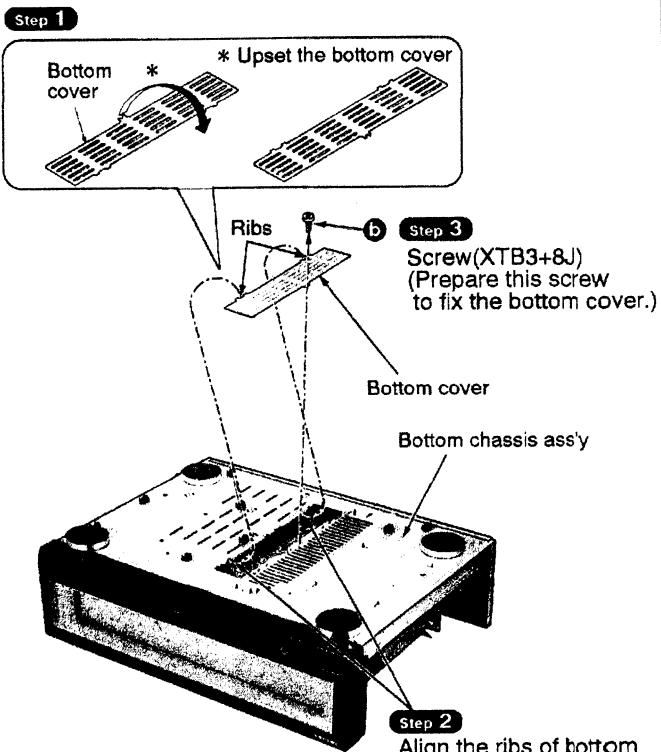
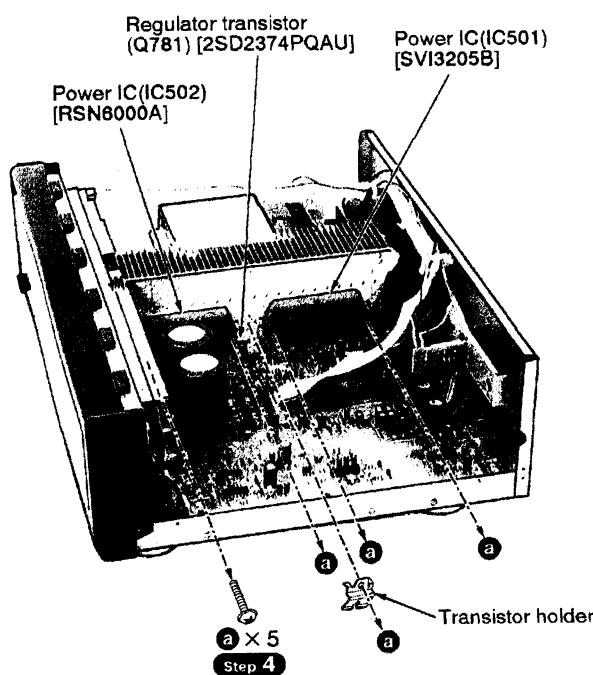
Step 1 Cut the joints as shown below.(6 portions)



Step 2 Fold the joints.(6 portions)



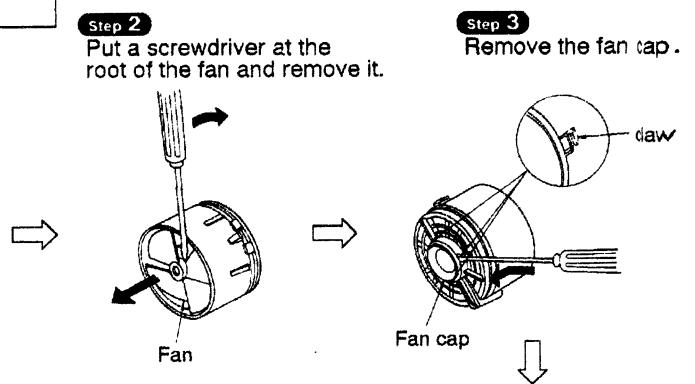
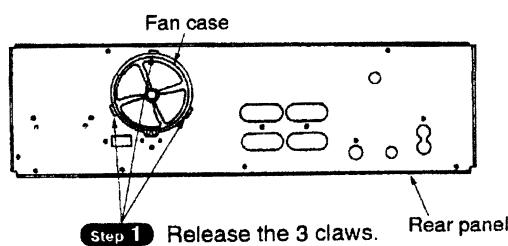
Step 3 Unsolder the terminals of power IC and regulator transistor.

Installation of the bottom cover after replacement

CAUTION

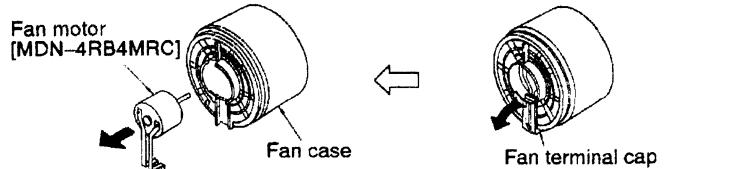
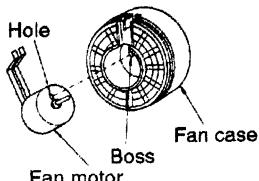
- After replacing the power IC or regulator transistor, apply a sufficient quantity of compound grease (RFKX0002) between the heat sink and the power IC or regulator transistor (Radiation of power IC).
- Tighten enough the screws (**a**) after replacing the power IC and regulator transistor. Otherwise,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

3. Replacement for the fan motor

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


NOTE

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



■ Measurements and Adjustments

Measuring Instruments and Special Tools

- AC electronic voltmeter (AC EVM)
- AF oscillator

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 8.94 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).

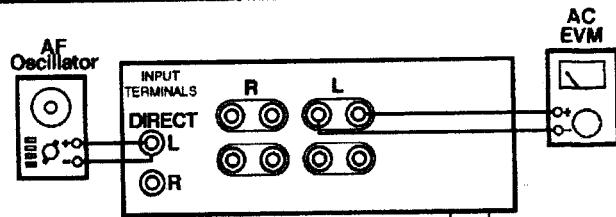


Fig. 1

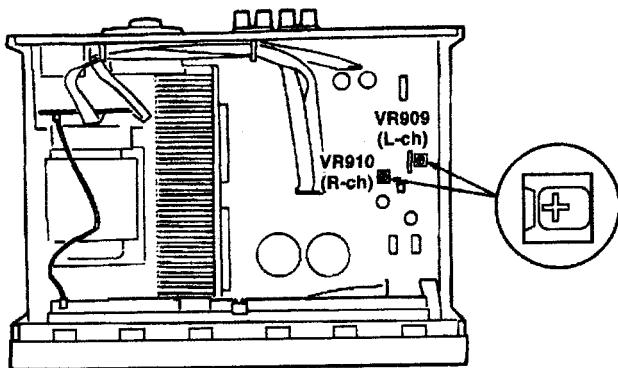


Fig. 2

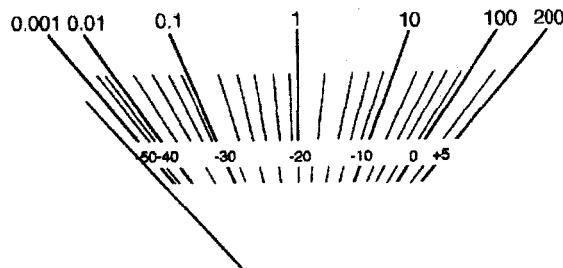


Fig. 3

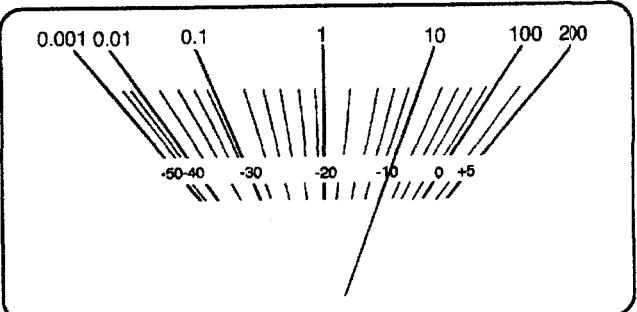


Fig. 4

■ Schematic Diagram

	Page
A MAIN CIRCUIT	14 – 17
B SP. SWITCH CIRCUIT	17
C HEADPHONES JACK CIRCUIT	17
D LED CIRCUIT	17
E LAMP (RIGHT) CIRCUIT	17
F LAMP (LEFT) CIRCUIT	17
G LIGHT SWITCH CIRCUIT	17
H POWER SUPPLY CIRCUIT	17
I POWER TRANSFORMER CIRCUIT	17
J POWER SWITCH CIRCUIT	17

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

Notes:

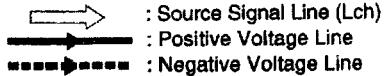
- S801 : Power "STANDBY /ON" switch (POWER, STANDBY /ON)
- S802 : Speaker select switch (SPEAKER A)
- S803 : Speaker select switch (SPEAKER B)
- S805 : Power meter light adjustment VR. (POWER METER LIGHT)
- VR909 : Power meter adjustment VR (L ch)
- VR910 : Power meter adjustment VR (R ch)

- 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 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.

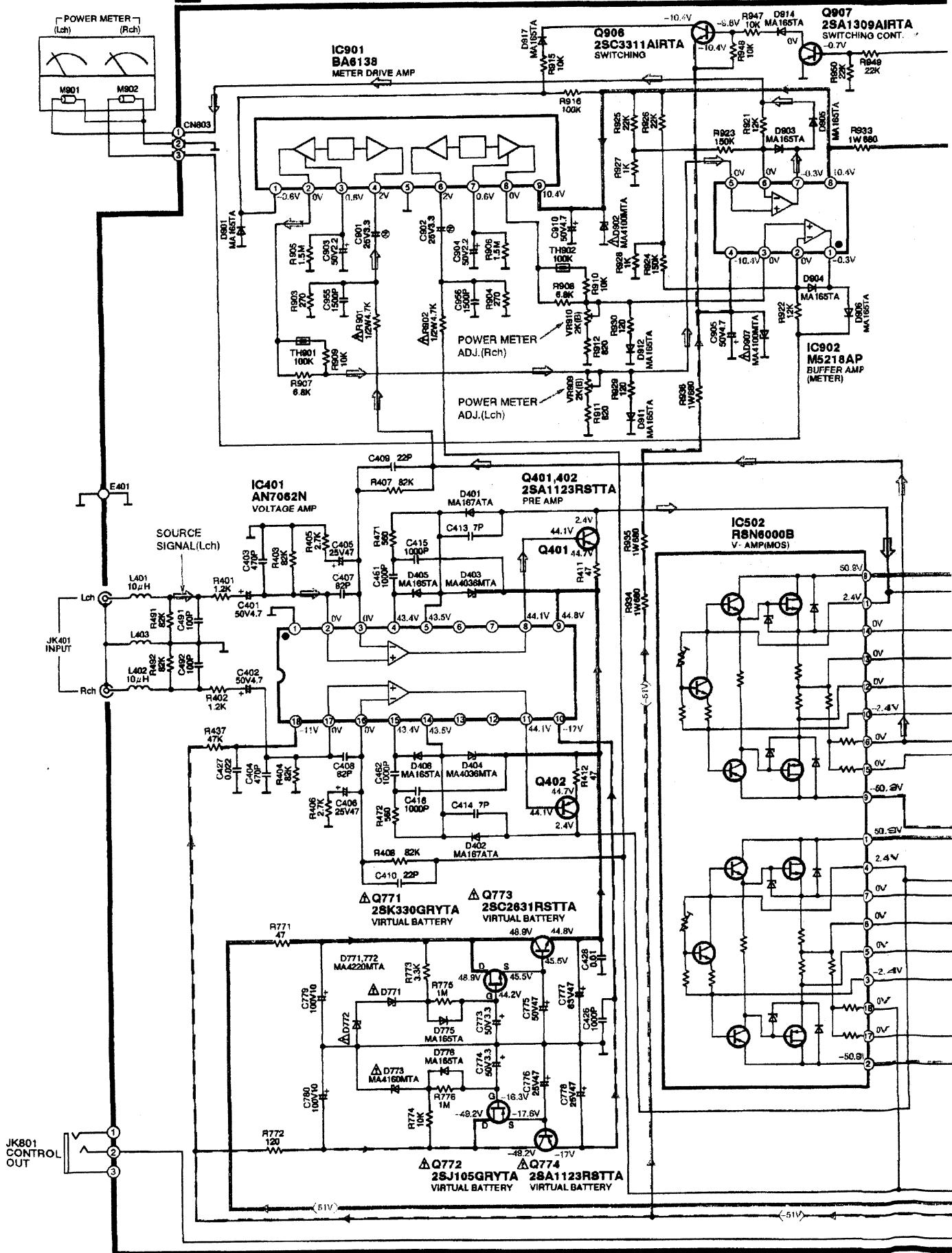
Cover the parts boxes made of plastics with aluminum foil.

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.

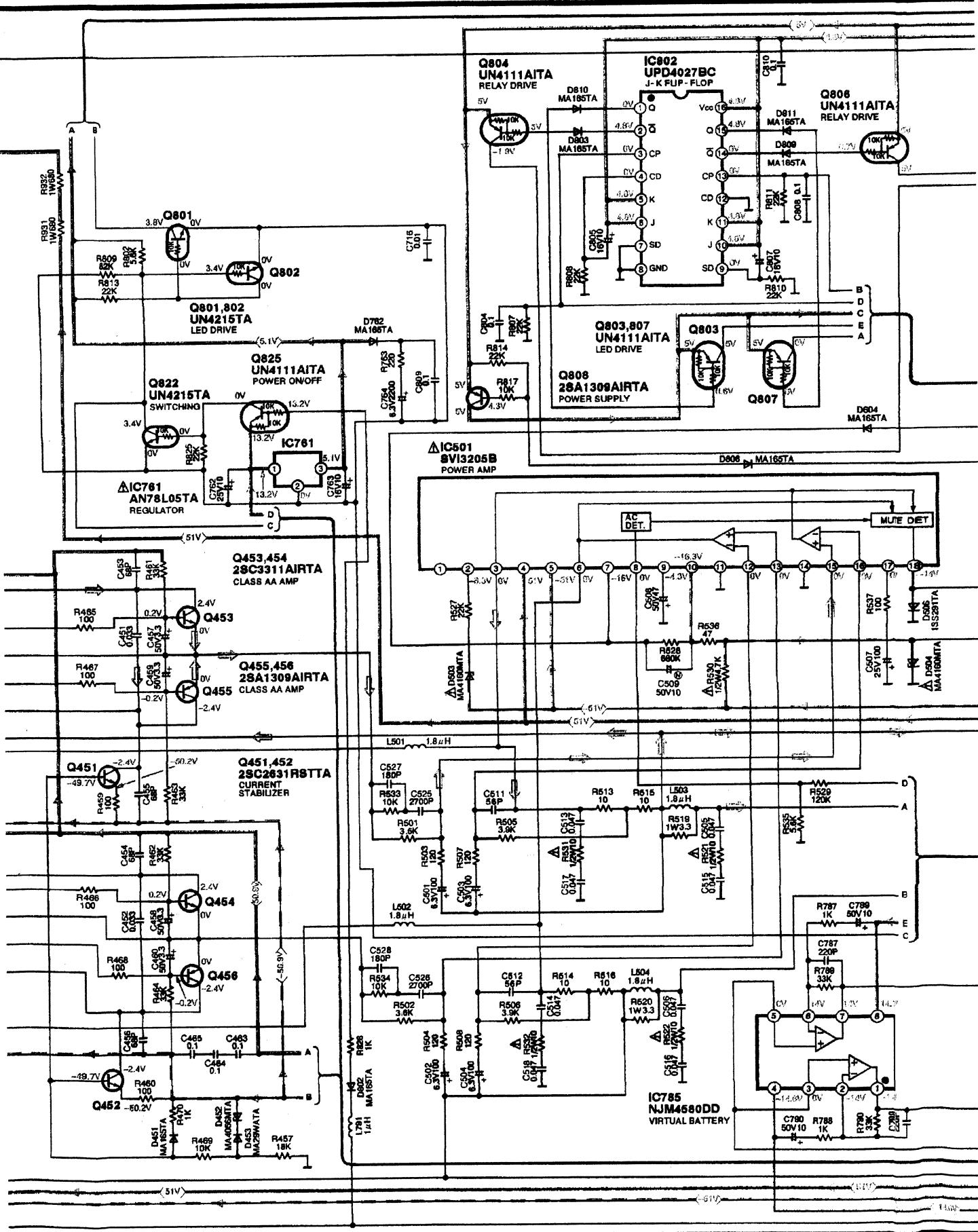
A MAIN CIRCUIT (P.C. Board on page 18)



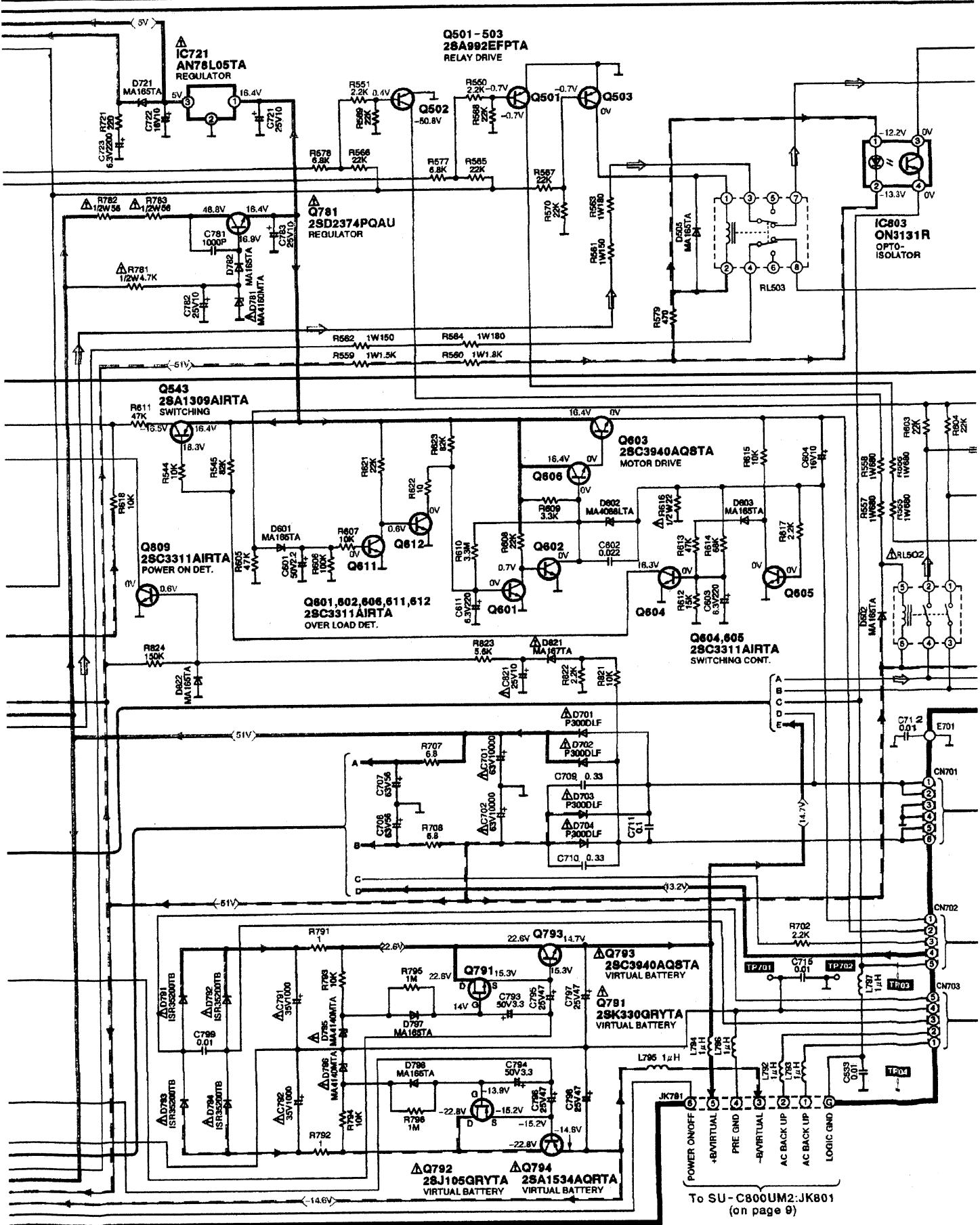
Positive Voltage Line

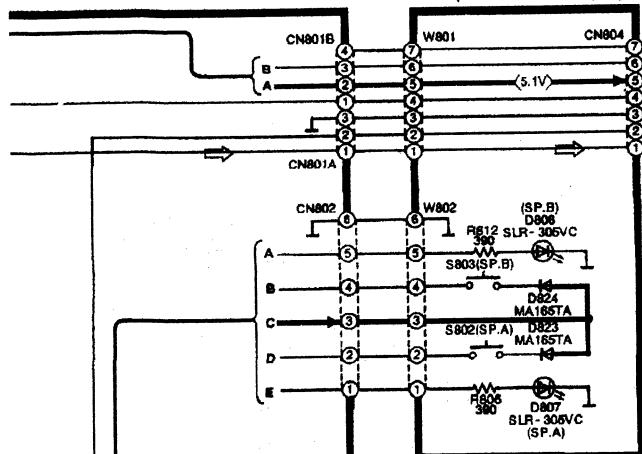
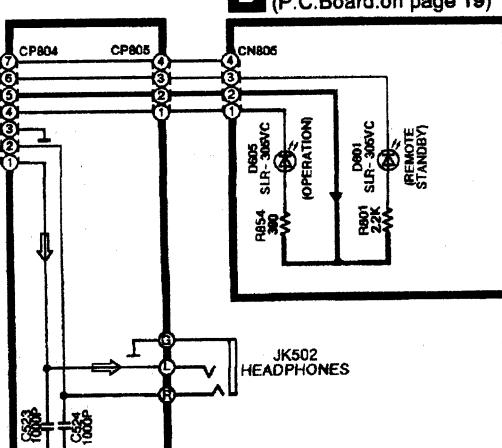
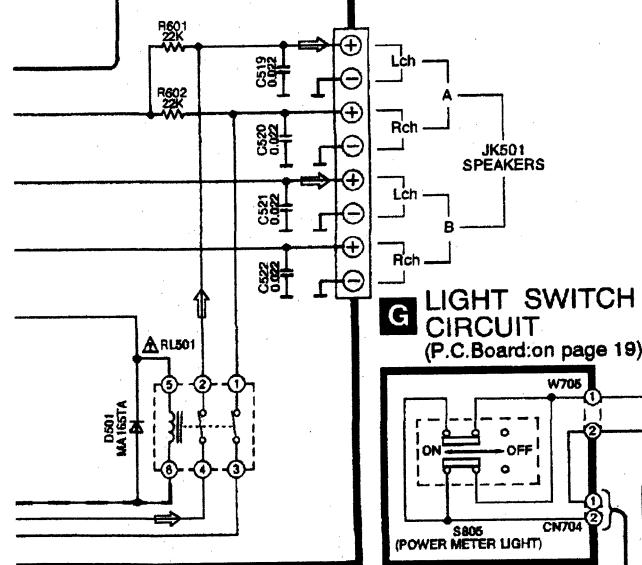
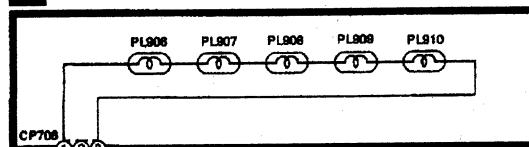
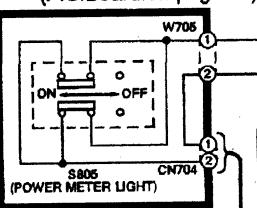
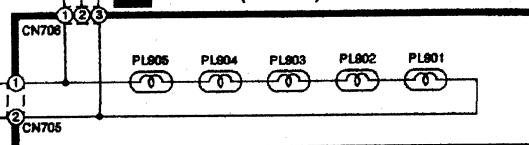
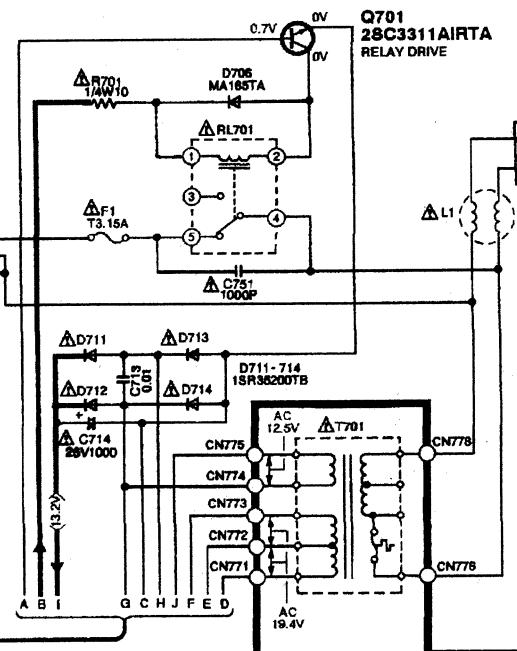
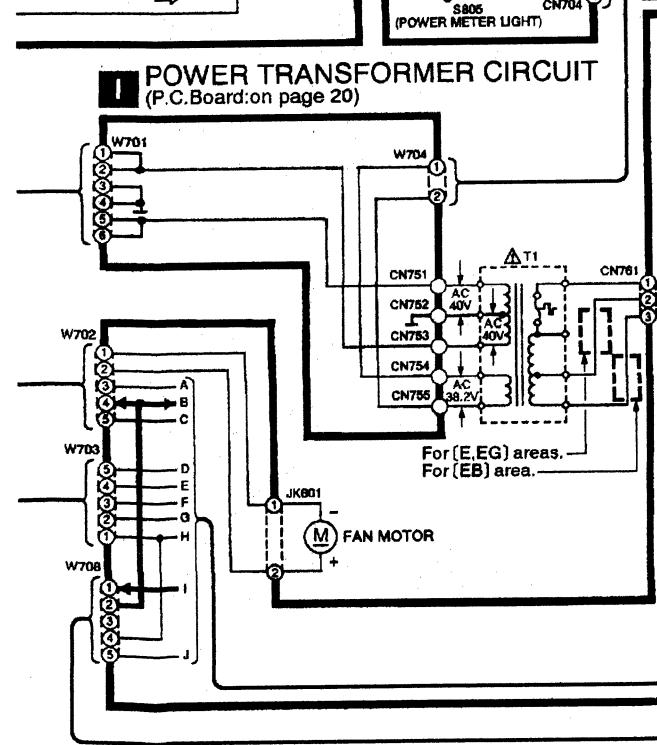
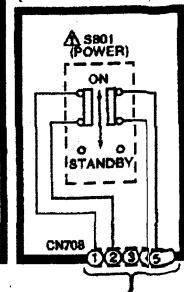
Negative Voltage Line

Source Signal Line (Lch)



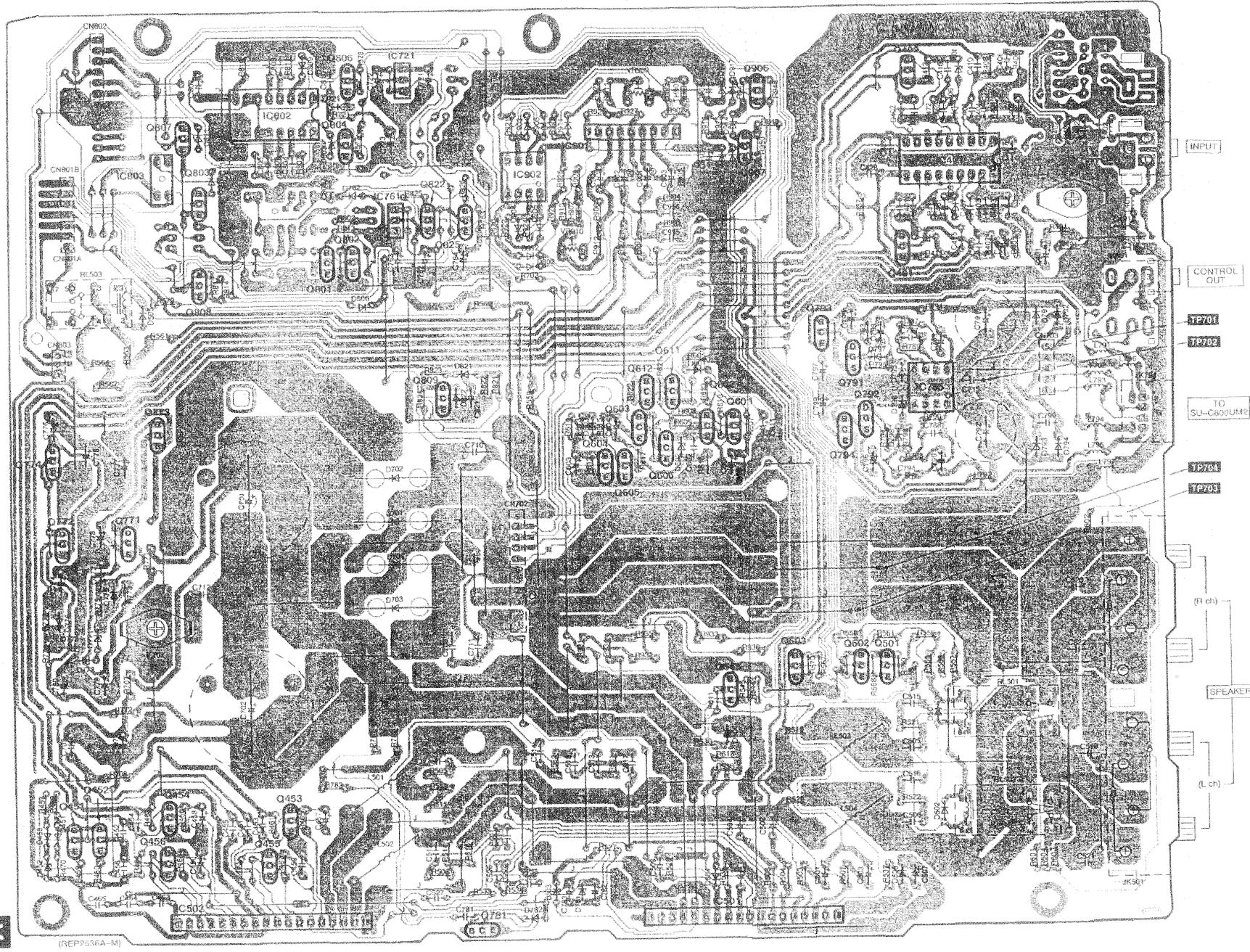
A MAIN CIRCUIT (P.C. Board: on page 18)

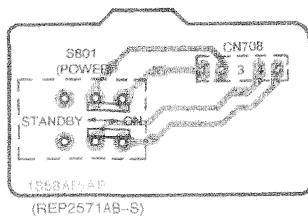
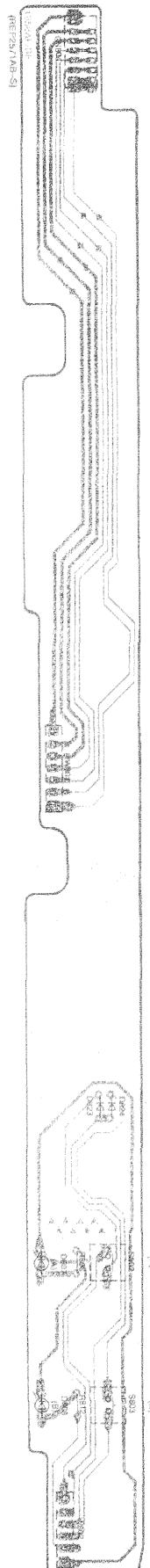
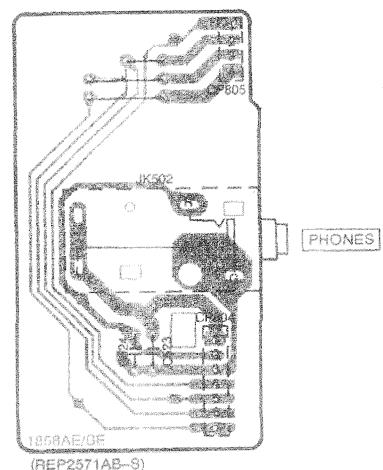
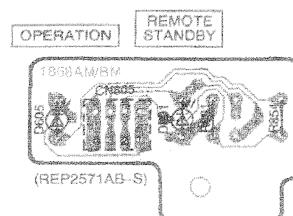
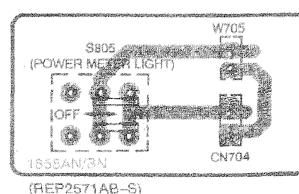


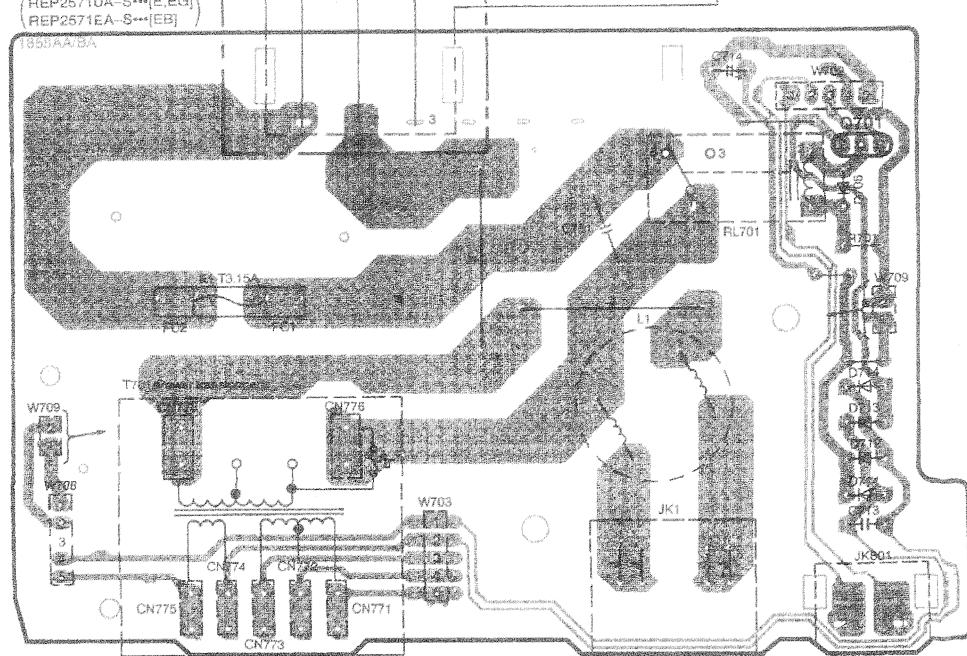
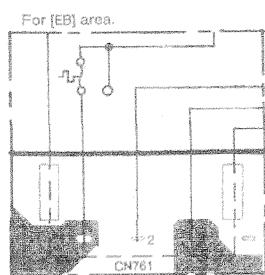
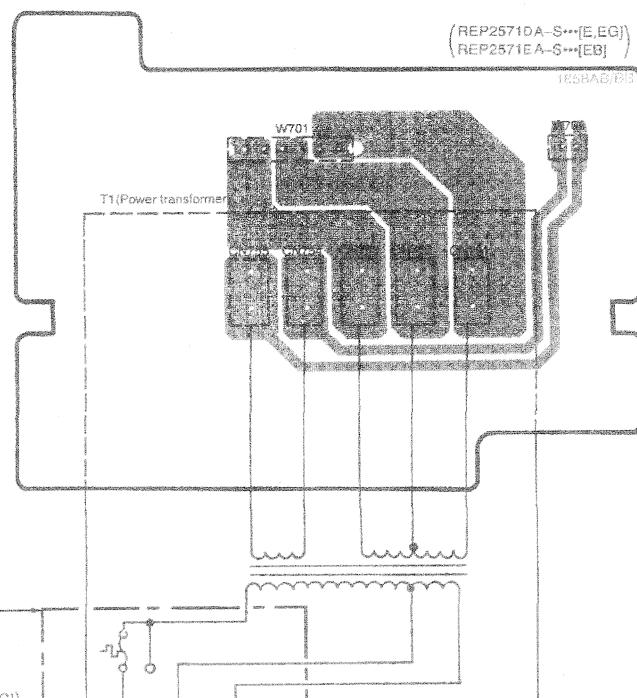
B SP. SWITCH CIRCUIT
(P.C.Board:on page 19)**D LED CIRCUIT**
(P.C.Board:on page 19)**C HEADPHONES JACK CIRCUIT**
(P.C.Board:on page 19)**E LAMP(RIGHT) CIRCUIT**
(P.C.Board:on page 21)**G LIGHT SWITCH CIRCUIT**
(P.C.Board:on page 19)**F LAMP(LEFT) CIRCUIT**
(P.C.Board:on page 21)**H POWER SUPPLY CIRCUIT**
(P.C.Board:on page 20)**J POWER SWITCH CIRCUIT**
(P.C.Board:on page 19)

Printed Circuit Board Diagram

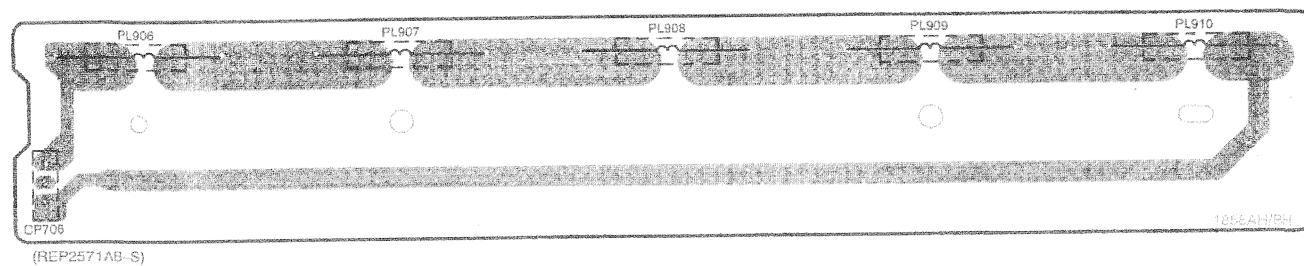
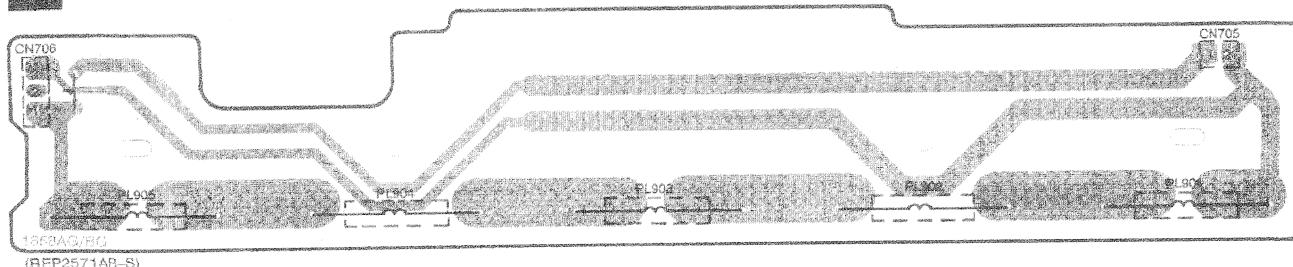
This circuit board diagram may be modified at any time with the development of new technology.

A MAIN P.C.B.

J POWER SWITCH P.C.B.**B** SP. SWITCH P.C.B.**C** HEADPHONES JACK P.C.B.**D** LED P.C.B.**G** LIGHT SWITCH P.C.B.

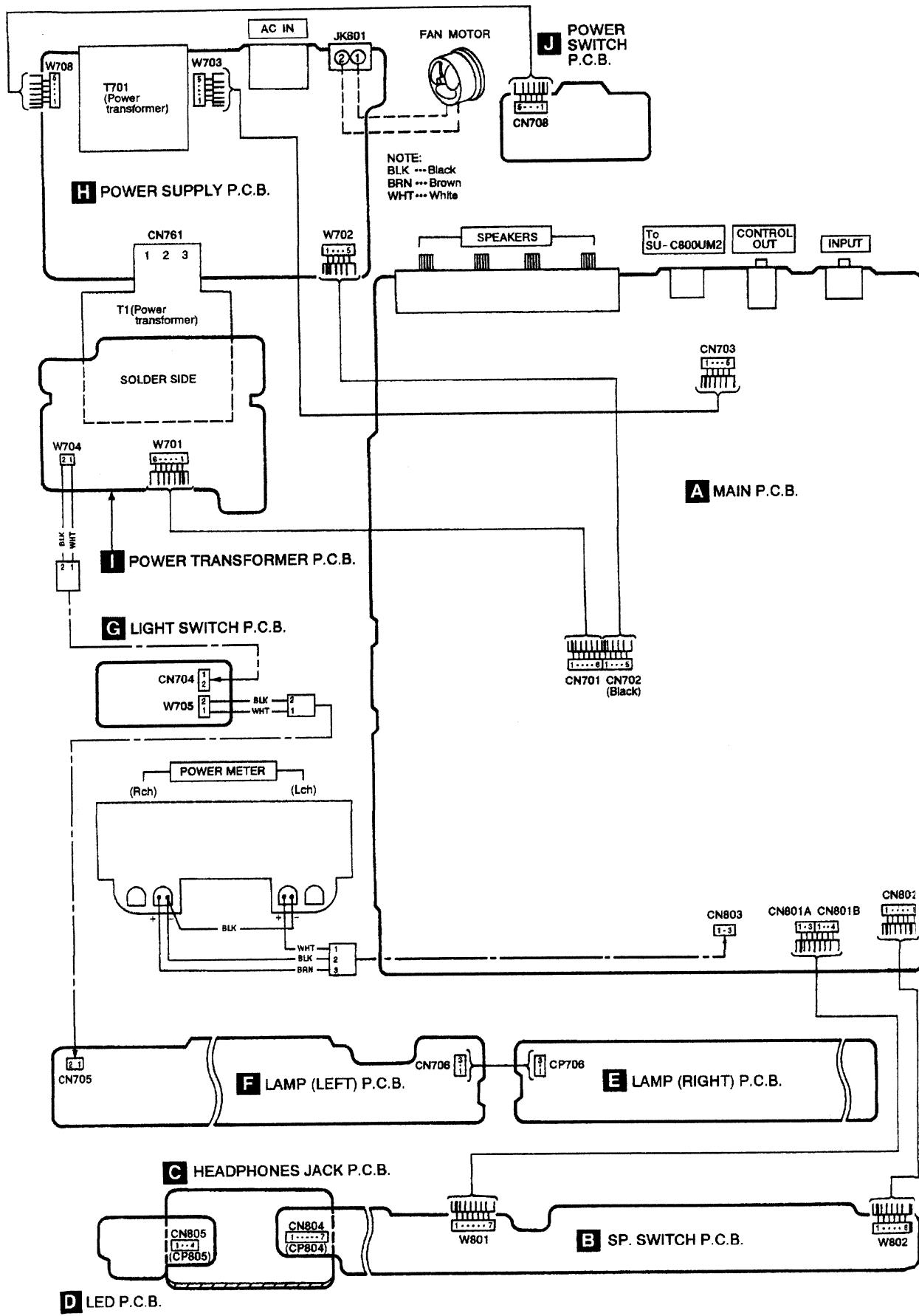
I POWER TRANSFORMER P.C.B.**H POWER SUPPLY P.C.B.**

230V*****[E,EG]
230-240V***[EB]
50Hz

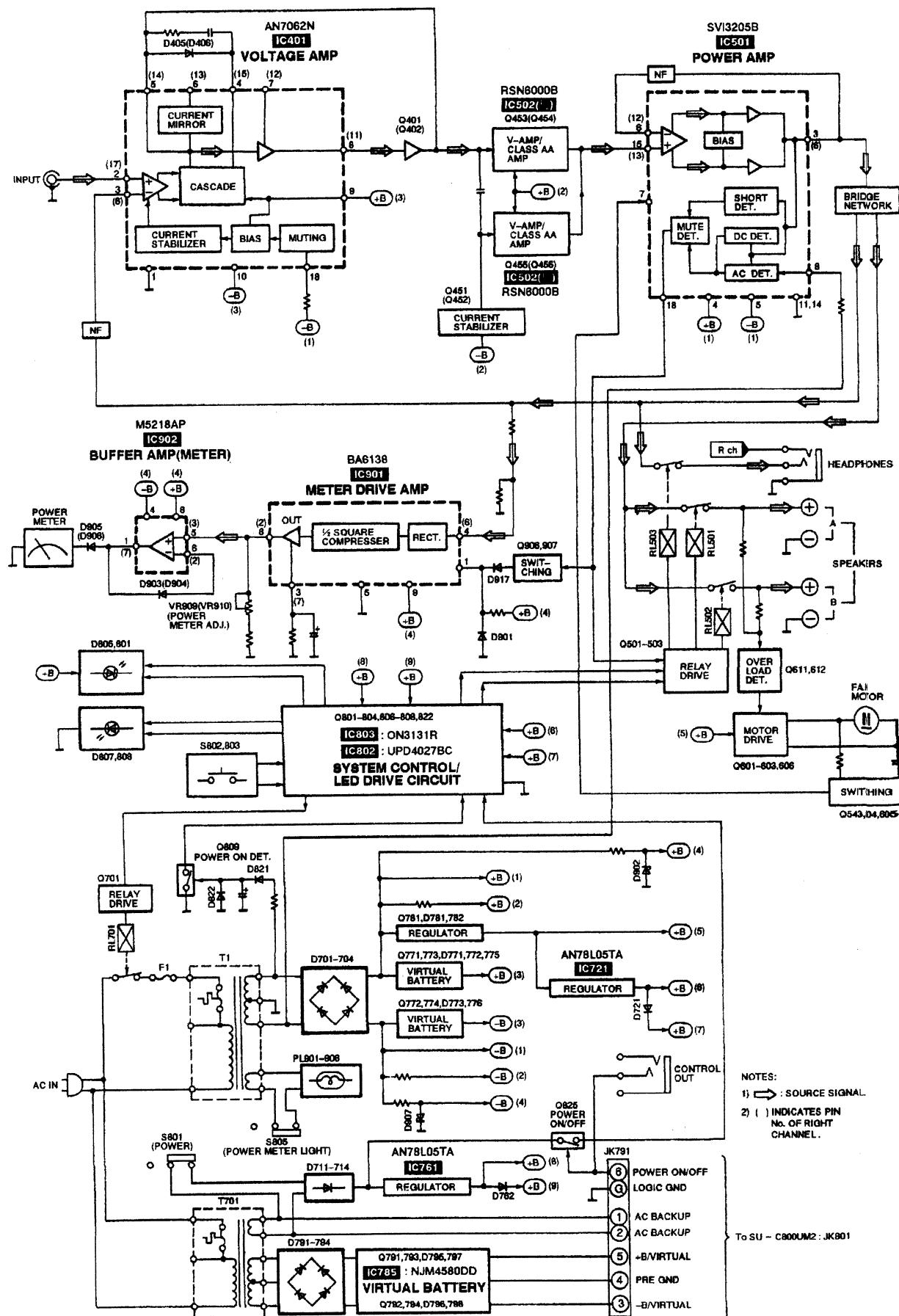
E LAMP (RIGHT) P.C.B.**F LAMP (LEFT) P.C.B.****■ Type Illustration of IC's, Transistors and Diodes**

M5218AP NJM4580DD 	UPD4027BC 	AN7062N 	0N3131R 	BA6138 	AN78L05TA
	RSN6000A SVI3205B 	2SA992EFPTA 2SA1123RSTTA 2SC2631RSTTA 	2SA1534AQRTA 2SC3940AQSTA 	2SD2374PQAU 	2SJ105GRITA 2SK330GRITA
	2SA1309AIRTA 2SC3311AIRTA UN4111 UN4215 	MA165 MA167 MA29WA 	1SS291TA 	1SR35200TB 	SLR-305VC
P300DLF 	MA4036MTA MA4056MTA MA4068L 	MA4036MTA MA4056MTA MA4068L 	MA4100MTA MA4140M MA4160M MA4220MTA 	SLR-305VC 	

■ 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 manufacturer's specified parts shown in the parts list.
 *The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
 Parts without these indications can be used for all areas.
 *[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
						DIODE (S)	
		INTEGRATED CIRCUIT (S)		D401, 402	MA167	DIODE	[M]
IC401	AN7062N	IC	[M]	D403, 404	MA4036MTA	DIODE	[M]
IC501	SVI3205B	IC	[M] Δ	D405, 406	MA165	DIODE	[M]
IC502	RSN6000A	IC	[M]	D451	MA165	DIODE	[M]
IC721	AN78L05TA	IC	[M] Δ	D452	MA4056MTA	DIODE	[M]
IC761	AN78L05TA	IC	[M] Δ	D453	MA29WA	DIODE	[M]
IC785	NJM4580DD	IC	[M]	D501, 502	MA165	DIODE	[M]
IC802	UPD4027BC	IC	[M]	D503, 504	MA4160M	DIODE	[M] Δ
IC803	ON3131R	IC	[M]	D505	MA165	DIODE	[M]
IC901	BA6138	IC	[M]	D506	1SS291TA	DIODE	[M]
IC902	M5218AP	IC	[M]	D601	MA165	DIODE	[M]
				D602	MA4068L	DIODE	[M]
		TRANSISTOR (S)		D603, 604	MA165	DIODE	[M]
Q401, 402	2SA1123RSTTA	TRANSISTOR	[M]	D605	SLR-305VC	LED	[M]
Q451, 452	2SC2631RSTTA	TRANSISTOR	[M]	D701-704	P300DLF	DIODE	[M] Δ
Q453, 454	2SC3311AIRTA	TRANSISTOR	[M]	D706	MA165	DIODE	[M]
Q455, 456	2SA1309AIRTA	TRANSISTOR	[M]	D711-714	1SR35200TB	DIODE	[M] Δ
Q501-503	2SA992EFPTA	TRANSISTOR	[M]	D721	MA165	DIODE	[M]
Q543	2SA1309AIRTA	TRANSISTOR	[M]	D762	MA165	DIODE	[M]
Q601, 602	2SC3311AIRTA	TRANSISTOR	[M]	D771, 772	MA4220MTA	DIODE	[M] Δ
Q603	2SC3940AQSTA	TRANSISTOR	[M]	D773	MA4160M	DIODE	[M] Δ
Q604-606	2SC3311AIRTA	TRANSISTOR	[M]	D775, 776	MA165	DIODE	[M]
Q611, 612	2SC3311AIRTA	TRANSISTOR	[M]	D781	MA4160M	DIODE	[M] Δ
Q701	2SC3311AIRTA	TRANSISTOR	[M]	D782	MA165	DIODE	[M]
Q771	2SK330GRYTA	TRANSISTOR	[M] Δ	D791-794	1SR35200TB	DIODE	[M] Δ
Q772	2SJ105GRYTA	TRANSISTOR	[M] Δ	D795, 796	MA4140M	DIODE	[M] Δ
Q773	2SC2631RSTTA	TRANSISTOR	[M] Δ	D797, 798	MA165	DIODE	[M]
Q774	2SA1123RSTTA	TRANSISTOR	[M] Δ	D801	SLR-305VC	LED	[M]
Q781	2SD2374PQAU	TRANSISTOR	[M] Δ	D802, 803	MA165	DIODE	[M]
Q791	2SK330GRYTA	TRANSISTOR	[M] Δ	D806	MA165	DIODE	[M]
Q792	2SJ105GRYTA	TRANSISTOR	[M] Δ	D807, 808	SLR-305VC	LED	[M]
Q793	2SC3940AQSTA	TRANSISTOR	[M] Δ	D809-811	MA165	DIODE	[M]
Q794	2SA1534QRFTA	TRANSISTOR	[M] Δ	D821	MA167	DIODE	[M] Δ
Q801, 802	UN4215	TRANSISTOR	[M]	D822-824	MA165	DIODE	[M]
Q803, 804	UN4111	TRANSISTOR	[M]	D901	MA165	DIODE	[M]
Q806, 807	UN4111	TRANSISTOR	[M]	D902	MA4100MTA	DIODE	[M] Δ
Q808	2SA1309AIRTA	TRANSISTOR	[M]	D903-906	MA165	DIODE	[M]
Q809	2SC3311AIRTA	TRANSISTOR	[M]	D907	MA4100MTA	DIODE	[M] Δ
Q822	UN4215	TRANSISTOR	[M]	D911, 912	MA165	DIODE	[M]
Q825	UN4111	TRANSISTOR	[M]	D914	MA165	DIODE	[M]
Q906	2SC3311AIRTA	TRANSISTOR	[M]	D917	MA165	DIODE	[M]
Q907	2SA1309AIRTA	TRANSISTOR	[M]			VARIABLE RESISTOR (S)	

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
VR909, 910	EVNDXA00B23	V. R	[M]	CP804	RJT057W007-1	CONNECTOR(7P)	[M]
		THERMISTOR(S)		CP805	RJT057W004-1	CONNECTOR(4P)	[M]
TH901, 902	ERTD22HL104T	THERMISTOR	[M]			EARTH TERMINAL(S)	
		COIL(S)		E401	SNE1004-2	EARTH TERMINAL	[M]
L1	SLQZ650MH49	COIL	[M] △	E701	SNE1004-2	EARTH TERMINAL	[M]
L401, 402	RLQA100JT-Y	COIL	[M]			FUSE HOLDER	
L403	BLQ2RN1R62T2	COIL	[M]	FC1, 2	EYF52BC	FUSE HOLDER	[M]
L501-504	SLQY18G-10	COIL	[M]			RELAY(S)	
L791-797	ELEXT1ROKA9	COIL	[M]	RL501, 502	RSY0013M-0	RELAY	[M] △
		POWER TRANSFORMER(S)		RL503	RSY0020M-R	RELAY	[M]
T1	RTP1P5B005	POWER TRANSFORMER	[M] △	RL701	RSY0019M-0	RELAY	[M] △
T701	RTP1J5B001	POWER TRANSFORMER	[M] △			JACK(S)	
		LAMP(S)		JK1	SJS9236-1	AC INLET	[M] △
PL901-910	XAMR131	LAMP	[M]	JK401	SJF3068-7N	JACK INPUT	[M]
		FUSE(S)		JK501	RJH4801M-2	SPEAKER TERMINAL	[M]
F1△	XBA2C31TB0	FUSE, 250V, T3, 15A	[M]	JK502	RJJ63TA01	HEADPHONE JACK	[M]
		SWITCH(ES)		JK601	RJS1A7402-1	CONNECTOR, FAN MOTOR	[M]
S801	RSP2B023-A	SW	[M] △	JK791	RJS1D0706	SOCKET(7P)	[M]
S802, 803	EVQPTD05Q	SW	[M]	JK801	RJJ33T01	JACK, CONTROL OUT	[M]
S805	RSP2B023-A	SW	[M]				
		CONNECTOR(S)					
CN701	RJS1A6606	CONNECTOR(6P)	[M]				
CN702, 703	RJS1A6605	CONNECTOR(5P)	[M]				
CN704	RJP2G18ZA	CONNECTOR(2P)	[M]				
CN705	RJP2G17ZA	CONNECTOR(2P)	[M]				
CN706	SJS50382JQH	SOCKET(3P)	[M]				
CN708	RJS1A6605	CONNECTOR(5P)	[M]				
CN751-755	RJS1A1101T1	CONNECTOR(1P)	[M]				
CN761	SJS305-1	CONNECTOR(3P)	[M]				
CN771-776	RJS1A1101T1	CONNECTOR(1P)	[M]				
CN778	RJS1A1101T1	CONNECTOR(1P)	[M]				
CN802	RJS1A6606	CONNECTOR(6P)	[M]				
CN803	RJP3G18ZA	CONNECTOR(3P)	[M]				
CN804	RJU057W007	CONNECTOR(7P)	[M]				
CN805	RJU057W004	CONNECTOR(4P)	[M]				
CN801A	RJS1A6603	CONNECTOR(3P)	[M]				
CN801B	RJS1A6604	CONNECTOR(4P)	[M]				
CP706	SJT30345JQ	CONNECTOR(3P)	[M]				

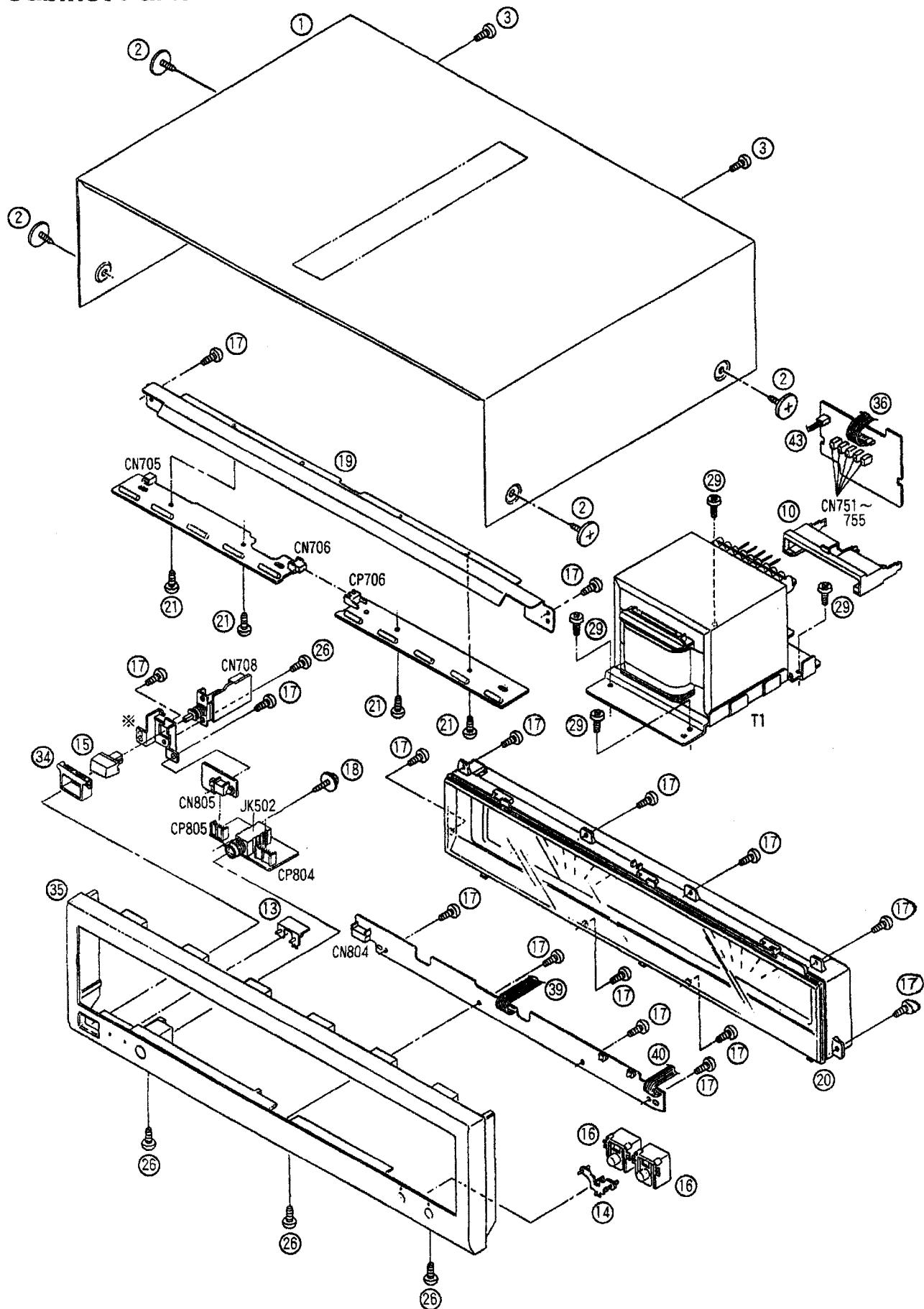
■ Replacement Parts List (Resistors and Capacitors)

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

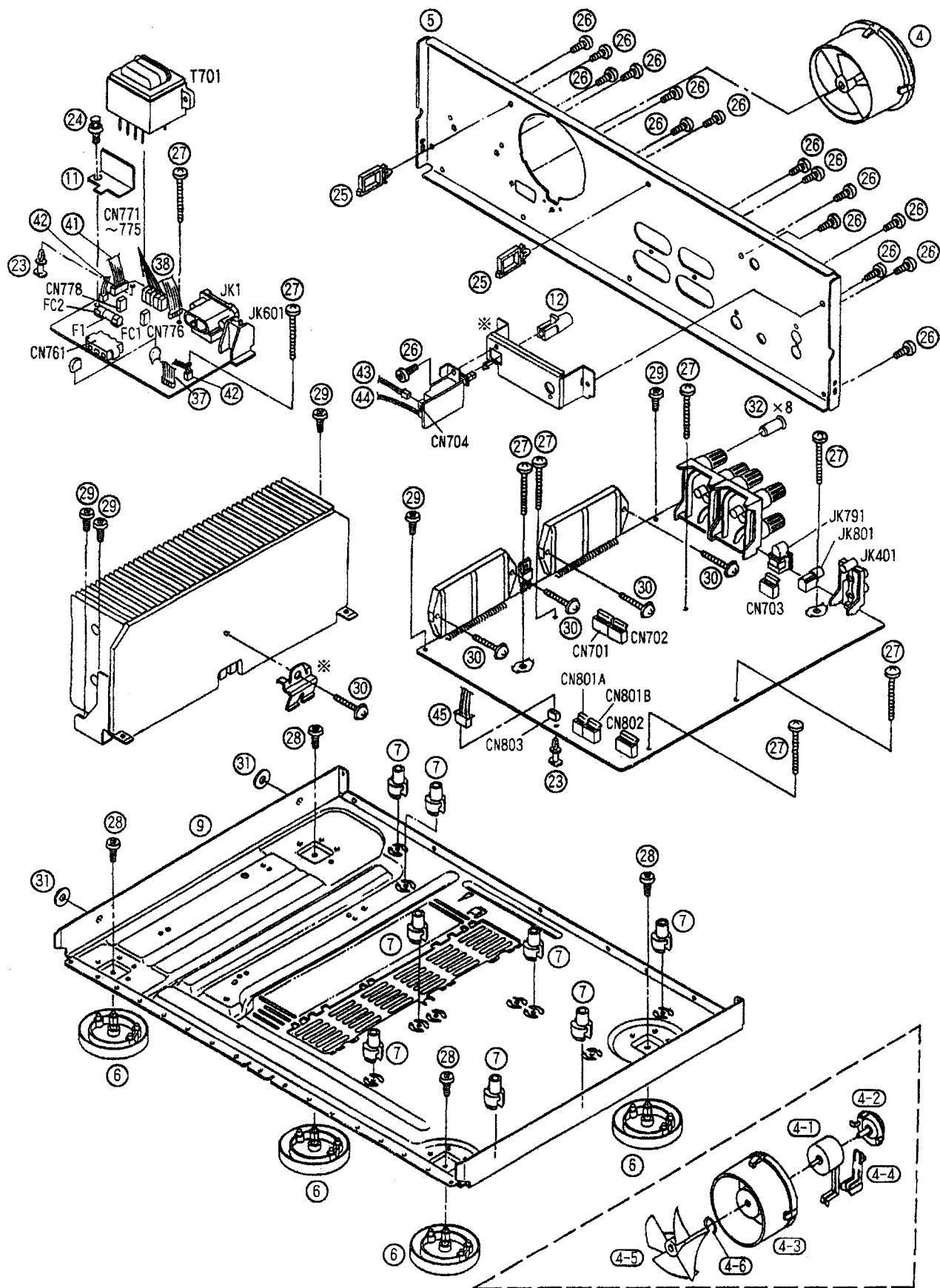
Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
RESISTORS								
R401, 402	ERDS2FJ122	1/4W 1.2K [M]	R609	ERDS2FJ332	1/4W 3.3K [M]	R907, 908	ERDS2FJ682	1/4W 6.8K [M]
R403, 404	ERDS2FJ823	1/4W 82K [M]	R610	ERDS2FJ335T	1/4W 3.3M [M]	R909, 910	ERDS2FJ103	1/4W 10K [M]
R405, 406	ERDS2FJ272	1/4W 2.7K [M]	R611	ERDS2FJ473	1/4W 47K [M]	R911, 912	ERDS2FJ821	1/4W 820 [M]
R407, 408	ERDS2FJ823	1/4W 82K [M]	R612	ERDS2FJ153	1/4W 15K [M]	R915	ERDS2FJ103	1/4W 10K [M]
R411, 412	ERDS2FJ470	1/4W 47 [M]	R613	ERDS2FJ473	1/4W 47K [M]	R916	ERDS2FJ104	1/4W 100K [M]
R437	ERDS2FJ473	1/4W 47K [M]	R614	ERDS2FJ683	1/4W 68K [M]	R921, 922	ERDS2FJ123	1/4W 12K [M]
R457	ERDS2FJ183	1/4W 18K [M]	R615	ERDS2FJ103	1/4W 10K [M]	R923, 924	ERDS2FJ154	1/4W 150K [M]
R459, 460	ERDS2FJ101	1/4W 100 [M]	R616△	ERDS1FJ220	1/2W 22 [M]	R925, 926	ERDS2FJ223	1/4W 22K [M]
R461-464	ERDS2FJ333	1/4W 33K [M]	R617	ERDS2FJ222	1/4W 2.2K [M]	R927, 928	ERDS2FJ102	1/4W 1K [M]
R465-468	ERDS2FJ101	1/4W 100 [M]	R618	ERDS2FJ103	1/4W 10K [M]	R929, 930	ERDS2FJ121	1/4W 120 [M]
R469	ERDS2FJ103	1/4W 10K [M]	R621	ERDS2FJ223	1/4W 22K [M]	R931-936	ERG1SJ681	1W 680 [M]
R470	ERDS2FJ102	1/4W 1K [M]	R622	ERDS2FJ100	1/4W 10 [M]	R947, 948	ERDS2FJ103	1/4W 10K [M]
R471, 472	ERDS2FJ561	1/4W 560 [M]	R623	ERDS2FJ823	1/4W 82K [M]	R949, 950	ERDS2FJ223	1/4W 22K [M]
R491, 492	ERDS2FJ823	1/4W 82K [M]	R701△	ERDS2FJ100	1/4W 10 [M]			
R501, 502	ERDS2FJ362	1/4W 3.6K [M]	R702	ERDS2FJ222	1/4W 2.2K [M]			CAPACITORS
R503, 504	ERDS2FJ121	1/4W 120 [M]	R707, 708	ERDS2FJ688	1/4W 6.8 [M]	C401, 402	ECA1HPKS4R7B	50V 4.7U [M]
R505, 506	ERDS2FJ392	1/4W 3.9K [M]	R721	ERDS2FJ221	1/4W 220 [M]	C403, 404	ECKD1H471KB	50V 470P [M]
R507, 508	ERDS2FJ121	1/4W 120 [M]	R763	ERDS2FJ221	1/4W 220 [M]	C405, 406	ECA1EPKS470B	25V 47U [M]
R513-518	ERDS2FJ100	1/4W 10 [M]	R771	ERDS2FJ470	1/4W 47 [M]	C407, 408	ECBT1H820KB5	50V 82P [M]
R519, 520	ERX1SJ3R3	1W 3.3 [M]	R772	ERDS2FJ121	1/4W 120 [M]	C409, 410	ECCR2H220J5	500V 22P [M]
R521, 522△	ERDS1FJ100	1/2W 10 [M]	R773	ERDS2FJ332	1/4W 3.3K [M]	C413, 414	ECCV2H070D	500V 7P [M]
R527	ERDS2FJ223	1/4W 22K [M]	R774	ERDS2FJ103	1/4W 10K [M]	C415, 416	ECBT1H102KB5	50V 1000P [M]
R528	ERDS2FJ684	1/4W 680K [M]	R775, 776	ERDS2FJ105	1/4W 1M [M]	C426	ECQB1H102JF3	50V 1000P [M]
R529	ERDS2FJ124	1/4W 120K [M]	R781△	ERDS1FJ472	1/2W 4.7K [M]	C427	ECQV1H223JZ3	50V 0.022U [M]
R530△	ERDS1FJ472	1/2W 4.7K [M]	R782, 783△	ERDS1FJ560	1/2W 56 [M]	C428	ECHR1H103JZ3	50V 0.01U [M]
R531, 532△	ERDS1FJ100	1/2W 10 [M]	R787, 788	ERDS2FJ102	1/4W 1K [M]	C451, 452	ECKR1H333ZF5	50V 0.033U [M]
R533, 534	ERDS2FJ103	1/4W 10K [M]	R789, 790	ERDS2FJ333	1/4W 33K [M]	C453-456	ECCV2H680K	500V 68P [M]
R535	ERDS2FJ562	1/4W 5.6K [M]	R791, 792	ERDS2FJ100	1/4W 1 [M]	C457-460	RCE1HKA3R3BG	50V 3.3U [M]
R536	ERDS2FJ470	1/4W 47 [M]	R793, 794	ERDS2FJ103	1/4W 10K [M]	C461, 462	ECBT1H102KB5	50V 1000P [M]
R537	ERDS2FJ101	1/4W 100 [M]	R795, 796	ERDS2FJ105	1/4W 1M [M]	C463-465	ECBT1H104ZF5	50V 0.1U [M]
R544	ERDS2FJ103	1/4W 10K [M]	R801	ERDS2FJ222	1/4W 2.2K [M]	C491, 492	ECKT1H101KB	50V 100P [M]
R545	ERDS2FJ823	1/4W 82K [M]	R802	ERDS2FJ562	1/4W 5.6K [M]	C501-504	ECA0JPXS101B	6.3V 100U [M]
R550, 551	ERDS2FJ222	1/4W 2.2K [M]	R806	ERDS2FJ391	1/4W 390 [M]	C505, 506	ECQV1H473JM3	50V 0.047U [M]
R555-558	ERG1SJ681	1W 680 [M]	R807, 808	ERDS2FJ223	1/4W 22K [M]	C507	ECA1EM101B	25V 100U [M]
R559	ERG1SJ152	1W 1.5K [M]	R809	ERDS2FJ823	1/4W 82K [M]	C508	ECA1HM470B	50V 47U [M]
R560	ERG1SJ182	1W 1.8K [M]	R810, 811	ERDS2FJ223	1/4W 22K [M]	C509	ECEA1HN100SB	50V 10U [M]
R561, 562	ERG1SJ151	1W 150 [M]	R812	ERDS2FJ391	1/4W 390 [M]	C511, 512	ECBT1H560J5	50V 56P [M]
R563, 564	ERG1SJ181	1W 180 [M]	R813, 814	ERDS2FJ223	1/4W 22K [M]	C513-518	ECQV1H473JM3	50V 0.047U [M]
R565-570	ERDS2FJ223	1/4W 22K [M]	R817	ERDS2FJ103	1/4W 10K [M]	C519-522	ECQB1H223JF3	50V 0.022U [M]
R577, 578	ERDS2FJ682	1/4W 6.8K [M]	R821	ERDS2FJ103	1/4W 10K [M]	C523, 524	ECBT1H102KB5	50V 1000P [M]
R579	ERDS2FJ471	1/4W 470 [M]	R822	ERDS2FJ222	1/4W 2.2K [M]	C525, 526	ECBT1C272KR5	16V 2700P [M]
R601-604	ERDS2FJ223	1/4W 22K [M]	R823	ERDS2FJ562	1/4W 5.6K [M]	C527, 528	ECBT1H181KB5	50V 180P [M]
R605	ERDS2FJ473	1/4W 47K [M]	R824	ERDS2FJ154	1/4W 150K [M]	C533	ECBT1C103NS5	16V 0.01U [M]
R606	ERDS2FJ104	1/4W 100K [M]	R825	ERDS2FJ223	1/4W 22K [M]	C601	ECEA1HKA2R2B	50V 2.2U [M]
R607	ERDS2FJ103	1/4W 10K [M]	R826	ERDS2FJ102	1/4W 1K [M]	C602	ECBT1E223ZF	25V 0.022U [M]
R608	ERDS2FJ223	1/4W 22K [M]	R854	ERDS2FJ391	1/4W 390 [M]	C603	ECEAOJKA221B	6.3V 220U [M]
			R901, 902△	ERDS1FJ472	1/2W 4.7K [M]	C604	RCE1CKA100BG	16V 10U [M]
			R903, 904	ERDS2FJ271	1/4W 270 [M]	C611	ECEAOJKA221B	6.3V 220U [M]
			R905, 906	ERDS2TJ155	1/4W 1.5M [M]			

Ref. No.	Part No.	Values & Remarks				
C701, 702△	ECETX1J103W	63V 1000U [M]				
C707, 708	ECA1JPXH560E	63V 56U [M]				
C709, 710	ECQE2334KFW	V 0.33U [M]				
C711	ECQE2104KF3	250V 0.1U [M]				
C712	ECBT1C103NS5	16V 0.01U [M]				
C713	ECKR1H103ZF5	50V 0.01U [M]				
C714△	ECA1EM102E	25V 1000U [M]				
C715, 716	ECBT1C103NS5	16V 0.01U [M]				
C721	ECEA1EKA100B	25V 10U [M]				
C722	RCE1CKA100BG	16V 10U [M]				
C723	ECAOJM222B	6.3V 2200U [M]				
C751△	ECWNS102MBM	400V 1000P [M]				
C762	ECEA1EKA100B	25V 10U [M]				
C763	RCE1CKA100BG	16V 10U [M]				
C764	ECAOJM222B	6.3V 2200U [M]				
C773, 774	ECA1HBX3R3B	50V 3.3U [M]				
C775	ECA1HPXS470B	50V 47U [M]				
C776	ECA1EPXS470B	25V 47U [M]				
C777	ECA1JPX470TB	63V 47U [M]				
C778	ECA1EPX470TB	25V 47U [M]				
C779, 780	ECA2APXS100B	100V 10U [M]				
C781	ECBT1H102KB5	50V 1000P [M]				
C782, 783	ECEA1EKA100B	25V 10U [M]				
C787, 788	ECCR1H221J5	50V 220P [M]				
C789, 790	ECA1HPXS100B	50V 10U [M]				
C791, 792△	ECA1VPT102Z	35V 1000U [M]				
C793, 794	ECA1HBX3R3B	50V 3.3U [M]				
C795-798	ECA1EPXS470B	25V 47U [M]				
C799	ECKR2H103ZU	500V 0.01U [M]				
C804	ECBT1H104ZF5	50V 0.1U [M]				
C805	RCE1CKA100BG	16V 10U [M]				
C807	RCE1CKA100BG	16V 10U [M]				
C808-810	ECBT1H104ZF5	50V 0.1U [M]				
C821△	ECEA1EKA100B	25V 10U [M]				
C901, 902	ECEA1EKN3R3B	25V 3.3U [M]				
C903, 904	ECEA1HKA2R2B	50V 2.2U [M]				
C905	RCE1HKA4R7BG	50V 4.7U [M]				
C910	RCE1HKA4R7BG	50V 4.7U [M]				
C955, 956	ECBT1C152JR5	16V 1500P [M]				

■ Cabinet Parts Location



We do not supply the items of the parts marked \ast .



■ Replacement Parts List (Cabinet, Accessories and Packaging)

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS	
1	RK00219F-K	TOP CABINET	[M]
2	SNE2129-1	SCREW	[M]
3	XTBS3+8JFZ1	SCREW	[M]
4	REM0020-1	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	RGR0227J-AA	REAR PANEL	[M] (E/EG)
5	RGR0227J-BA	REAR PANEL	[M] (EB)
6	RKA0053-A	FOOT	[M]
7	RKQ0089-2	P. C. B. SUPPORT	[M]
9	RMK0200-3	CHASSIS	[M]
10	RMN0217	HOLDER	[M]
11	RMZ0354	COVER	[M]
12	RGU0609-K	BUTTON, LIGHT	[M]
13	RGL0301-Q	PANEL LIGHT A	[M]
14	RGL0302-Q	PANEL LIGHT B	[M]
15	RGU0890-K	BUTTON, POWER	[M]
16	RGU1271-K	BUTTON, SPEAKER	[M]
17	RHD26017	SCREW	[M]
18	RHD26018	SCREW	[M]
19	RMA0869	ANGLE	[M]
20	RSE0006-1	METER ASS'Y	[M]
21	XTBS26+8J	SCREW	[M]
23	SHR8006	SPACER	[M]
24	SHR9112	LATCH	[M]
25	SHR9814	SPACER	[M]
26	XTBS3+8JFZ1	SCREW	[M]
27	XTB3+20JFZ	SCREW	[M]
28	XTB3+6G	SCREW	[M]
29	XTB3+8JFZ	SCREW	[M]
30	XTW3+15T	SCREW	[M]
31	RMG0332-K	RUBBER	[M]
32	RMR1110-K	COVER	[M]
34	RMR1096-K	BUTTON, SLEEP	[M]
35	RFKEA900SME	FRONT PANEL ASS'Y	[M]
36	RWJ3906440QQ	FLAT CABLE (6P) (W701)	[M]
37	RWJ1805480QQ	FLAT CABLE (5P) (W702)	[M]
38	RWJ3905390QQ	FLAT CABLE (5P) (W703)	[M]
39	RWJ1807220KX	FLAT CABLE (7P) (W801)	[M]
40	RWJ1806090KX	FLAT CABLE (6P) (W802)	[M]
41	RFKEEA1000EA	WIRE ASS'Y (5P) (W708)	[M]
42	RFKEEA1000EB	WIRE ASS'Y (2P) (W709)	[M]
43	RFKEEA1000EC	WIRE ASS'Y (2P) (W704)	[M]
44	RFKEEA1000ED	WIRE ASS'Y (2P) (W705)	[M]
45	REX0741	WIRE ASS'Y (3P)	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPG3539	PACKING CASE	[M] (EB/EG)
P1	RPG3538	PACKING CASE	[M] (E)
P2	RPQ0573	SPACER	[M]
P3	RPQ0822	SPACER	[M]
P4	RPG3540	PACKING CASE	[M]
P5	RPG3544	PACKING CASE (SU-C800UM2)	[M]
P6	RPN0752	PAD	[M]
P7	RPN0917	PAD (SU-C800UM2)	[M]
P8	SPP730	SHET	[M]
P9	SPP756	SHET (SU-C800UM2)	[M]
P10	RPQ0164	PAD	[M]
P11	RPE0139	PROTECTION COVER	[M]
P12	RPHD032	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	RQC80169	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	RJL6D001B10	AMP. CONNECTION CABLE	[M]
A7	SJP2276	PIN CORD	[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

