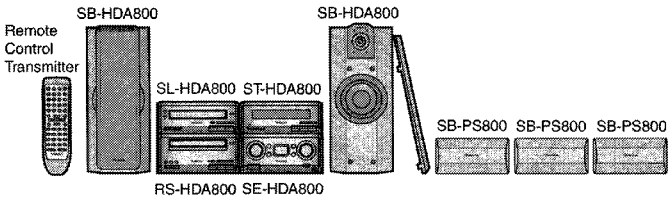
AD0206125C2

Service Manual

Amplifier



SE-HDA800EB
SE-HDA800EG

Color

(N)..... Gold Type

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

System	SC-HDA800
Integrated Amplifier	**SE-HDA800**
Stereo Tuner	ST-HDA800
DVD Audio/Video Player	SL-HDA800
Stereo Cassette Deck	RS-HDA800
Front Speakers*	SB-HDA800
Surround Speakers*	SB-PS800
Center Speakers*	

*: Made in Spain.

Specifications

Amoplifier section (Stereo mode)
[Low frequency]
power output:
DIN 100kHz, THD 1%, both channels driven; 2×17W(4Ω)
RMS 100kHz, THD 10%, both channels driven; 2×22W(4Ω)
Total haemonic distortion:
Half power at 1kHz; 0.07%(6Ω)
Load impedance: 4Ω
[High frequency]
Power output:
DIN 1kHz, THD 1%, both channels driven; 2×15W(6Ω)
RMS 1kHz, THD 10%, both channels driven; 2×20W(6Ω)
Load impedance: 6Ω
[Surround, Center]
Power output:
DIN 1kHz, THD 1%, both channels driven; 3×15W(8Ω)
RMS 1kHz, THS 10%, both channels driven; 3×22W(8Ω)
Load impedance: 8Ω

S/N:
Rated power, 500mV input, DIN; 84dB

Headphones
Jack type: 3.5mm STEREO
Load impedance: 16-32Ω

General
Power supply:
(E), (EG) areas; AC230V, 50Hz
(EB) area; AC230-240V, 50Hz
Power consumption: 140W
STANDBY condition: 0.8W
Dimensions (W×H×D): 210×104.8×309mm
Mass: 3.6kg

Notes: Specifications are subject to change wihtout notice.
Mass and dimensions are approximate.
Total harmonic distortion is measured by the digital spectrum analyzer.

⚠ WARNING

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

Technics®

CONTENTS

1 Before Repair

1. Turn off the power supply. Using a 10 Ω, 10 W resistor, connect both ends of power supply capacitors (C601, C602) 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 respecttosupply voltage 230/240 V.

Power supply voltage	AC 230 V	AC 240 V
Consumed current 50 Hz	50 - 300 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 supplied.
- 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 bellow:

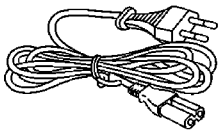
1. Press the Standby/on button, switch to standby mode.
2. Determine the cause of the problem and correct it.
3. Press the Standby/on button once again, supply the power.

Note:

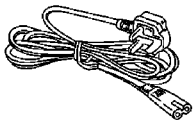
When the protection circuitry functions, the unit will not operate unless the Standby/on button is first switched Standby and then ON again.

3 Accessories

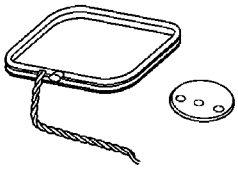
- AC power supply cord for (E), (EG) areas
  (RJA0019-2X).....1 pc.



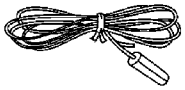
- AC power supply cord for (EB) area
  (RJA0053-3X).....1 pc.



- AM loop antenna set
  (RSA0035).....1 pc.

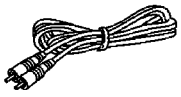


- FM indoor antenna
  (RSA0007).....1 pc.

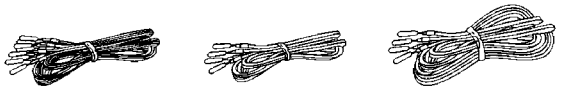


- Surround cable
  (REX0941).....1 pc.

- Video connection cable
  (RJL1P019B15).....1 pc.

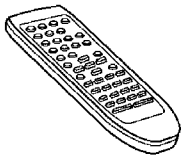


- Speaker cords
  Tagget red, black, and white (REE1195).....2 pcs.
  Tagget blue and white (2m) (REE1196).....1 pc.
  Tagget blue and white (7m) (REE1196A).....2 pcs.

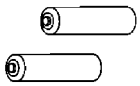


(2 m) (7 m)

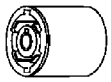
- Remote control transmitter
  (EUR7702200).....1 pc.



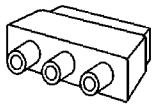
- Remote control batteries
  (R6/LR6, AA, UM-3).....2 pcs.
  Note: These are available on sales route.



- Antenna plug adaptor for (EB) area
  (SJP9009).....1 pc.



- SKART plug adaptor
  (VFA0151-2).....1 pc.



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

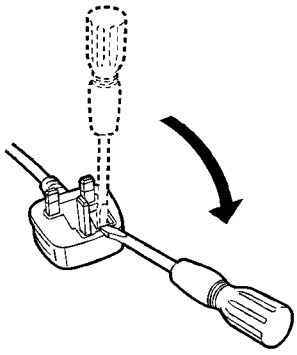
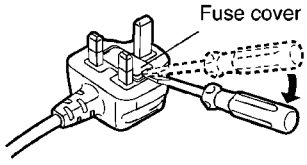


Figure B



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

Figure A

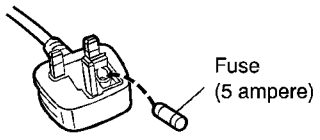
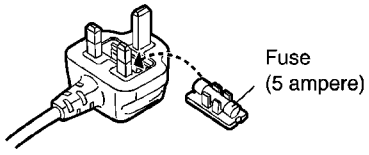
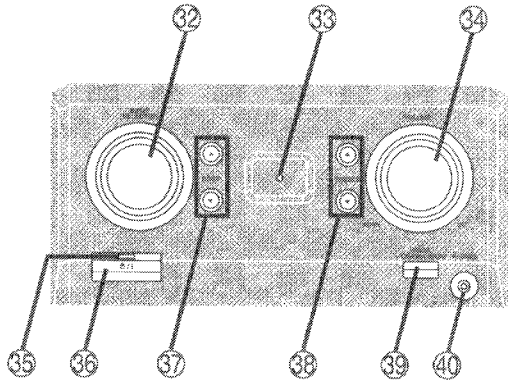


Figure B

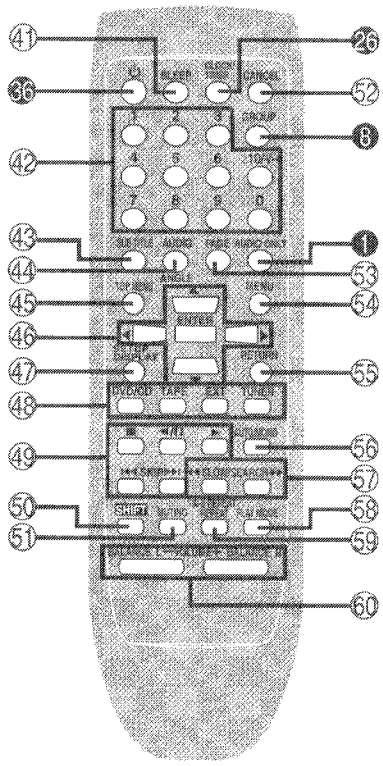


5 Location of Controls

D



E



D Integrated Amplifier

㉜ Input selector (INPUT SELECTOR)
㉝ VGCA indicator (VGCA)
㉞ Volume control (VOLUME)
㉟ Standby indicator
When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.
㊱ Standby/on switch (⏻/I)
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.
㊲ Bass buttons (BASS ▲, ▼)
㊳ Treble buttons (TREBLE ▲, ▼)
㊴ VGCA/Cinema bass button (-VGCA, –CINEMA BASS)
㊵ Headphone jack (PHONES)

E Remote control

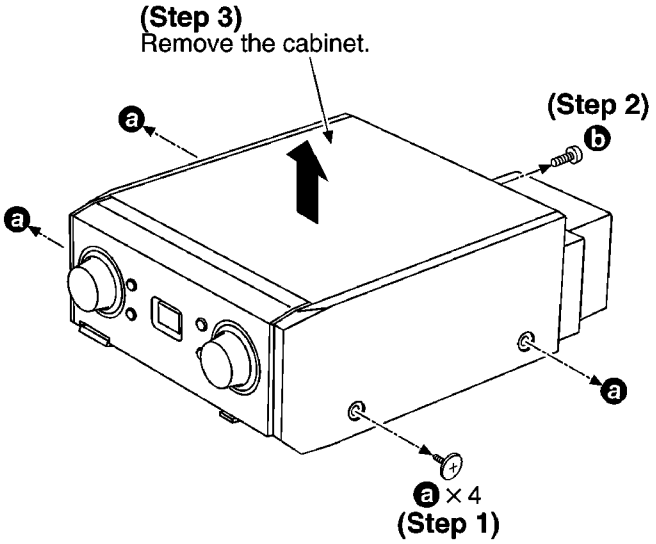
Buttons ❶, ❽, ㉖ and ㉜ function the same as the controls on the main unit.

㊶ Sleep timer button (SLEEP)
㊷ Numbered buttons
㊸ Subtitle button (SUBTITLE)
㊹ Audio/Angle button (AUDIO, ANGLE)
㊺ Top menu button (TOP MENU)
㊻ Cursor/Enter buttons (◀ ▼ ▲ ▶ ENTER)
㊼ Display/Setup button (DISPLAY, SETUP)
㊽ Input select buttons
(DVD/CD, TAPE, EXT, TUNER)
㊾ Basic operating buttons
Function changes according to the source.
㊿ Shift button (SHIFT)
(51) Muting button (MUTING)
(52) Cancel button (CANCEL)
(53) Page button (PAGE)
(54) Menu button (MENU)
(55) Return button (RETURN)
(56) FM mode select button (AUTO/MONO)
(57) Slow/Search buttons (◀◀ SLOW/SEARCH ▶▶)
(58) Play mode select button (PLAY MODE)
(59) Repeat/A-B repeat button (REPEAT, A-B REPEAT)
(60) Volume/Balance buttons
(– VOLUME +, BALANCE L, BALANCE R)

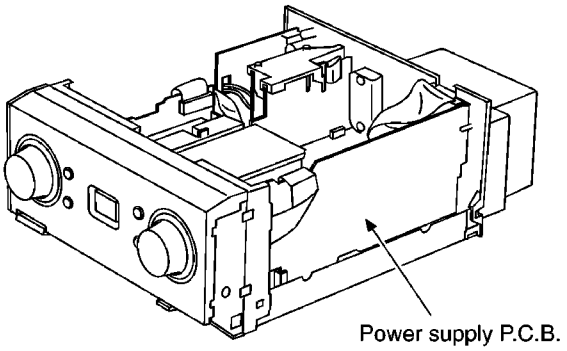
6 Operation Checks and Component Replacement Procedures

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

6.1. Checking for the power supply P.C.B.

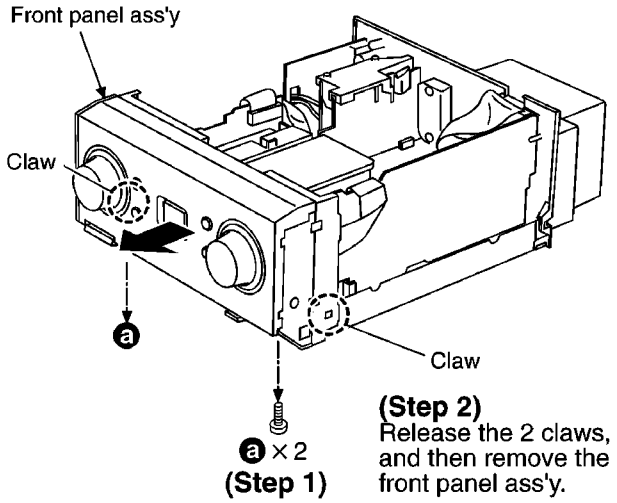


- **Check the power supply P.C.B. as shown below.**

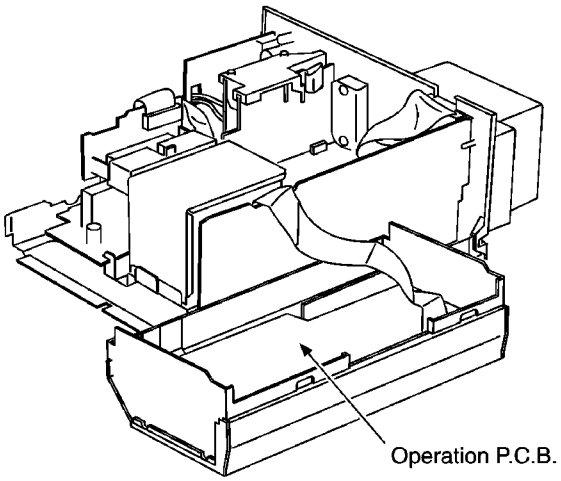


6.2. Checking for the operation P.C.B.

- Follow the **(Step 1)** - **(Step 3)** of item 6.1.

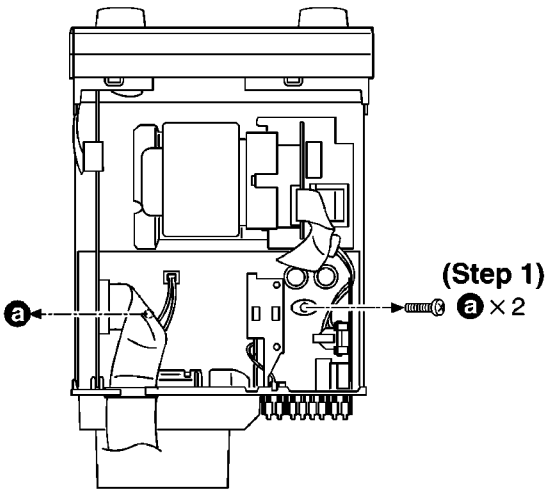


- **Check the operation P.C.B. as shown below.**

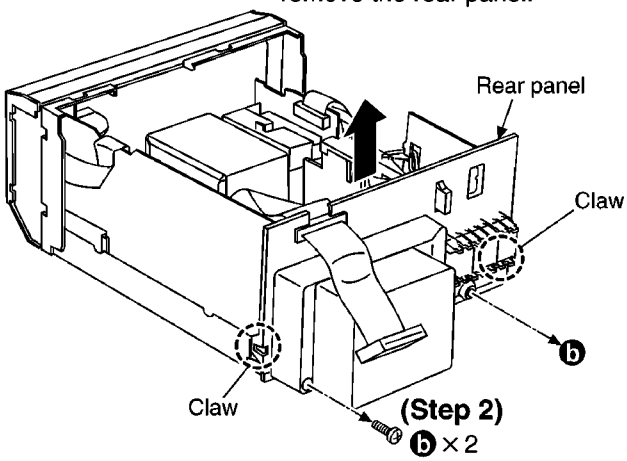


6.3. Checking for the main P.C.B.

• Follow the **(Step 1)** - **(Step 3)** of item 6.1.

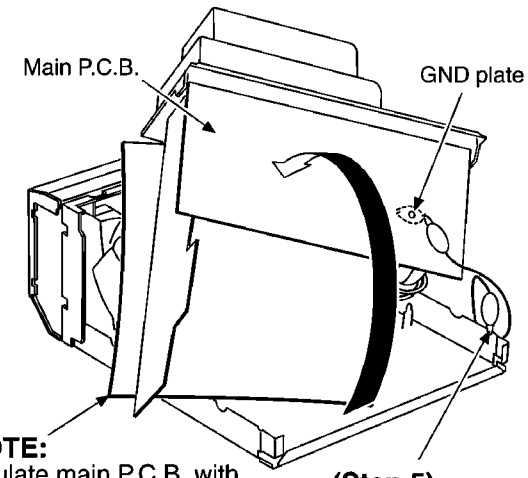


(Step 3)
Release the 2 claws, and then remove the rear panel.



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

(Step 4)
Turn the rear panel, power supply P.C.B. and main P.C.B., and then put on the them to front panel ass'y.



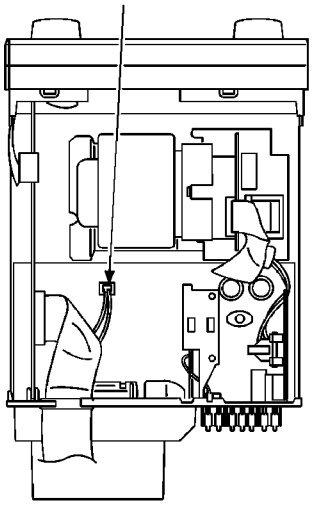
NOTE:
Insulate main P.C.B. with insulation material to avoid short-circuit.

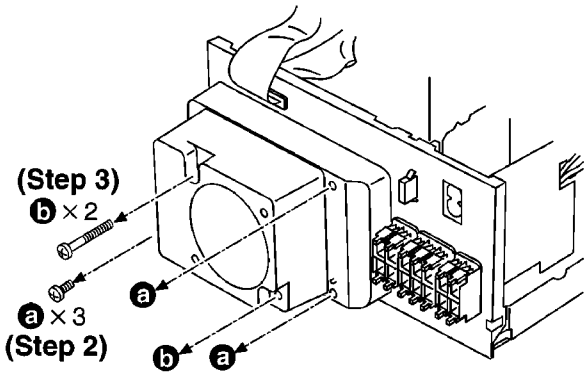
(Step 5)
Connect the lead wire.

6.4. Replacement for the fan motor ass'y

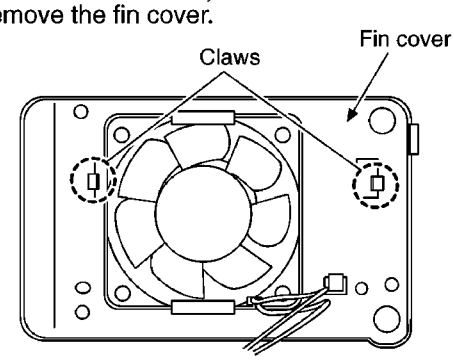
• Follow the **(Step 1)** - **(Step 3)** of item 6.1.

(Step 1)
Remove the connector (CN201).

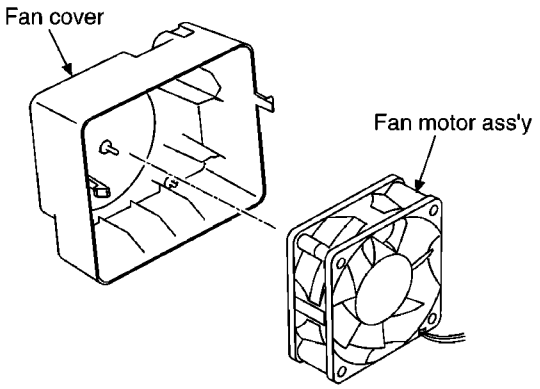




(Step 4)
Release the 2 claws, and then remove the fin cover.



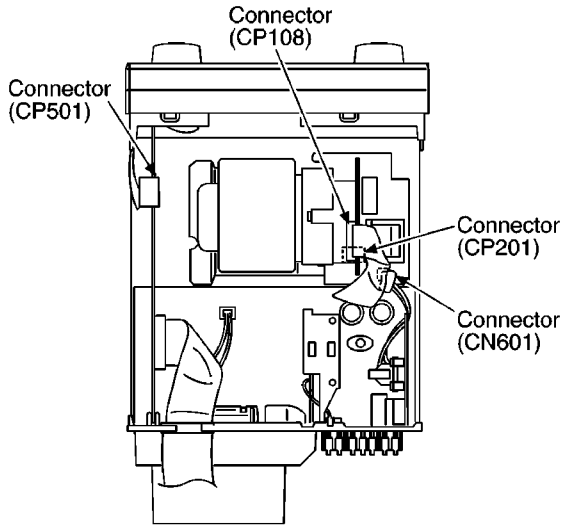
(Step 5)
Remove the fan motor from fan cover.

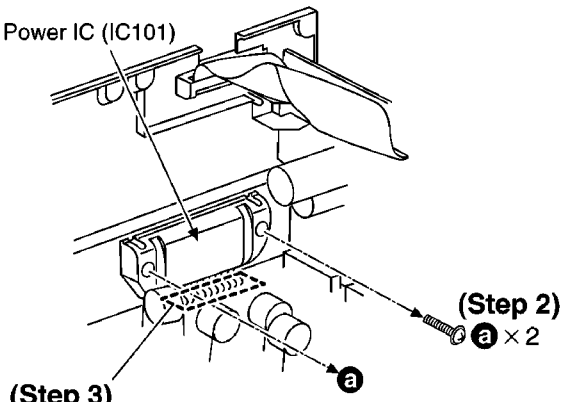


6.5. Replacement for the power IC (IC101)

- Follow the **(Step 1)** - **(Step 3)** of item 6.1.
- Follow the **(Step 1)** - **(Step 3)** of item 6.3.

(Step 1)
Remove the 4 connectors.



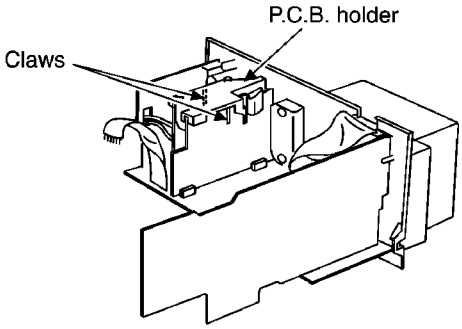


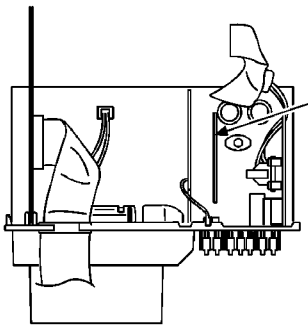
(Step 3)
Unsolder the terminals of power IC.

6.6. Replacement for the power IC (IC701)

- Follow the **(Step 1)** - **(Step 3)** of item 6.1.
- Follow the **(Step 1)** - **(Step 3)** of item 6.3.
- Follow the **(Step 1)** of item 6.5.

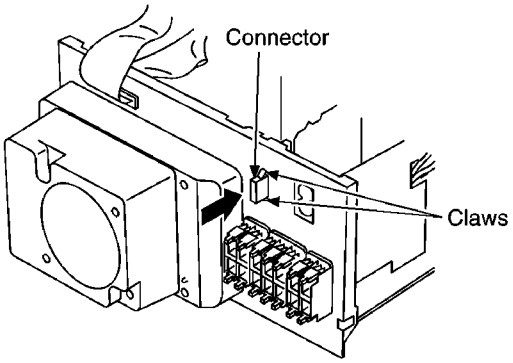
(Step 1)
Remove the 2 claws, and then remove the P.C.B. holder.



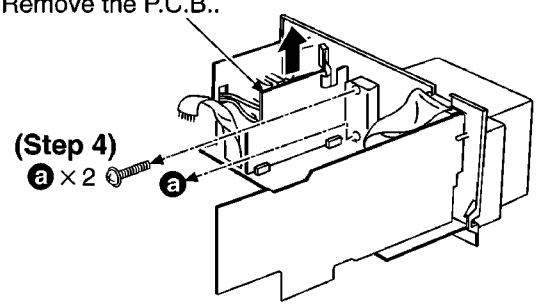


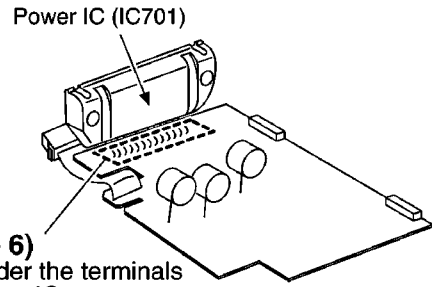
(Step 2)
Remove the P.C.B..

(Step 3)
Remove the 2 claws, and then remove connector.



(Step 5)
Remove the P.C.B..

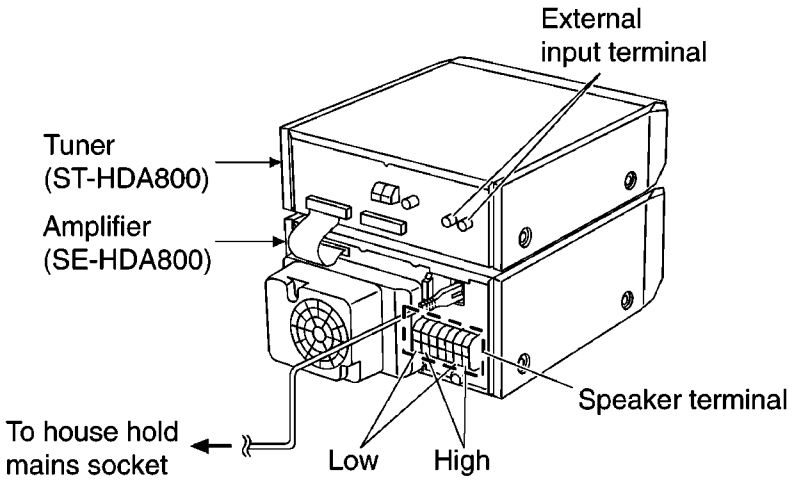




7 To Supply Power Source and Signal Check

To operate this unit SE-HDA800 normally, it is necessary to connect to the unit ST-HDA800. When operating the unit SE-HDA800, be sure to connect to the unit ST-HDA800 by connection cable.

1. Connect with the Tuner (ST-HDA800). Refer to
2. Connect the AC power supply cord to the Amplifier (SE-HDA800). Refer to
3. Connect the speakers to speaker terminal.
   Refer to
4. Turn on the power of the Amplifier (SE-HDA800).
5. Set INPUT SELECTER to select the external source (EXT) of the Amplifier (SE-HDA800).
6. Input a sound signal to external input terminal of the Tuner (ST-HDA800), and confirm to be outputted from the speaker.



8 Type Illustration od ICs, Transistors and Diodes

<table>
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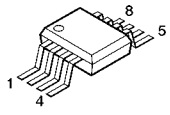
<td>M5218AFPE3
  </td>
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 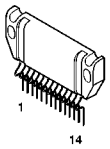 </td>
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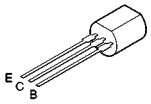
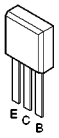
  </td>
<td colspan="2"> 
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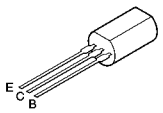
2SC3311ATA
UN4111TA
UN4115TA
UN4211TA</td>
<td>2SC3940AQSTA
  </td>
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 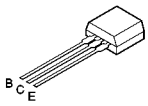 </td>
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 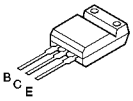 </td>
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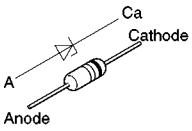
MA4068MTA
MA4091MTA
  </td>
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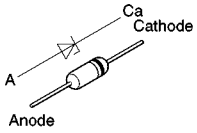
MA4160MTA
MA4240MTA
  </td>
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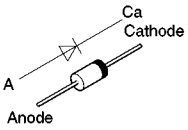
RL1N4003N02
  </td>
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 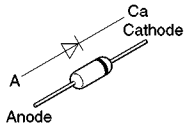 </td>
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 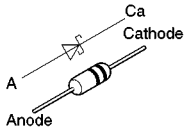 </td>
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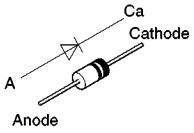
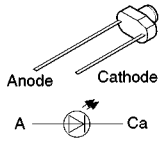
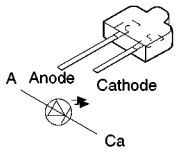
  </td>
<td>SLR-325MC
SLR-325VC
  </td>
<td>SELS5923C
  </td>
<td colspan="2"></td>
</tr>
</table>

9 Schematic Diagram Notes

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

Notes:

S501: Power standby/on switch (⏻ /I)
S503: Bass down switch (BASS ▼)
S504: Bass up switch (BASS ▲)
S505: VGCA /Cinema bass switch
(▪ VGCA ▬ CINEMA BASS)
S506: Treble down switch (TREBLE ▼)
S507: Treble up switch (TREBLE ▲)
VR501: Input selector VR (INPUT SELECTOR)
VR502: Volume control VR (VOLUME)

- 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 theinternalimpedance 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), higFh-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 supply part number is described alone in the replacement 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.

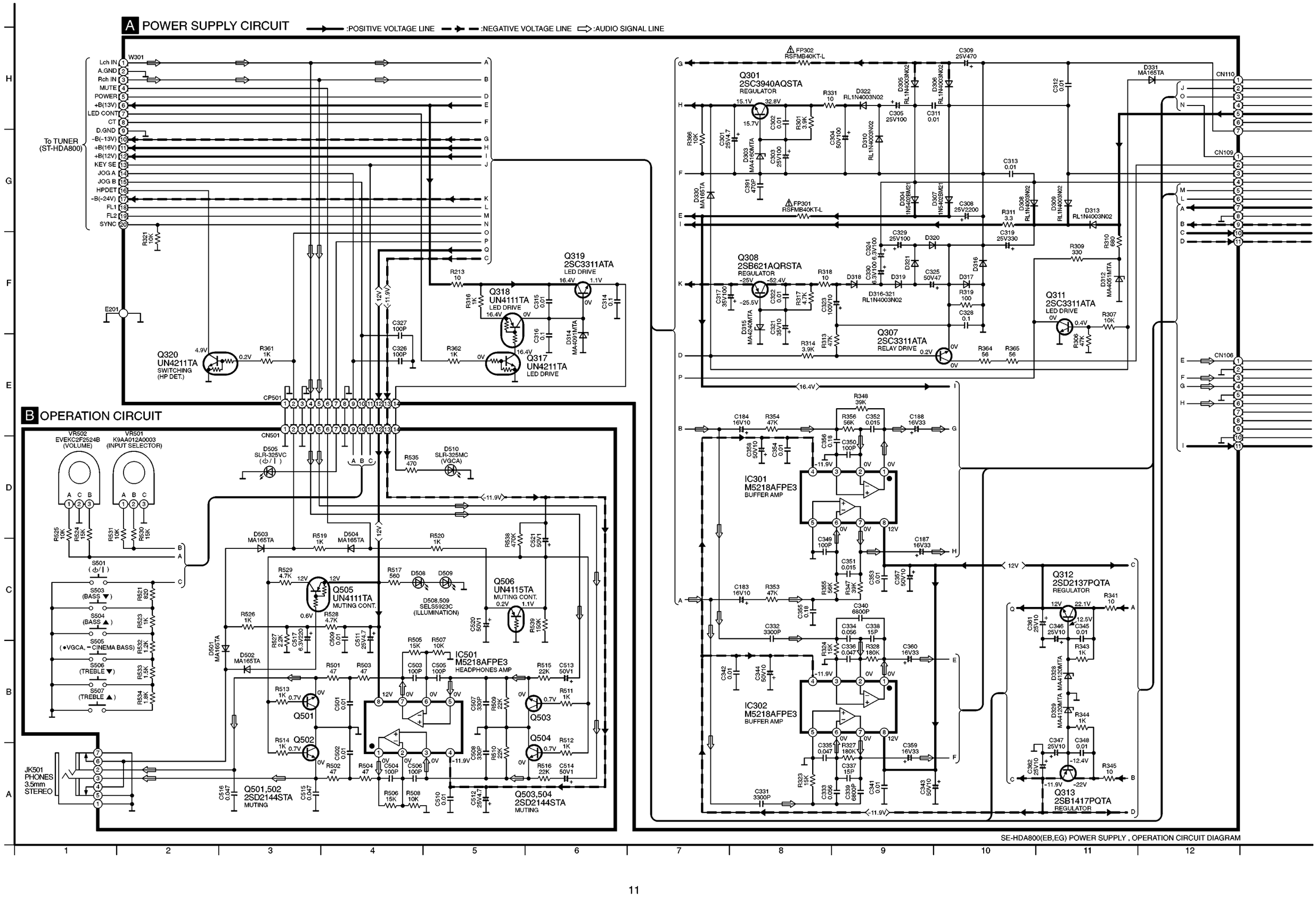
  Put a conductive mat on the work table.

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

- Voltage and signal line

  ▬▶▬ : Positive voltage line
  ▬◀▶▬ : Negative voltage line
  ⇨ : Audio signal line

10 Schematic Diagram



SE-HDA800(EB,EG) POWER SUPPLY , OPERATION CIRCUIT DIAGRAM

C MAIN CIRCUIT

:POSITIVE VOLTAGE LINE :NEGATIVE VOLTAGE LINE :AUDIO SIGNAL LINE

IC101
RSN314H41A
POWER AMP

Q132 2SC3311ATA MOTOR DRIVE
Q130 2SD592AQRSTA MOTOR DRIVE
Q129 2SA1309ATA MOTOR DRIVE
Q131 2SC3311ATA MOTOR DRIVE
Q128 2SC3311ATA MOTOR DRIVE
Q117 2SC3311ATA OVER LOAD DET.
Q120 2SC3311ATA OVER LOAD DET.
Q105,122 2SA1309ATA OVER LOAD DET.
Q118 2SC3311ATA SWITCHING(MUTE)
Q106,107 2SC3311ATA PROTECTOR
Q124,125 2SC3311ATA PROTECTOR
Q127 2SC3311ATA SWITCHING (POWER)
Q126 UN4211TA SWITCHING (POWER)

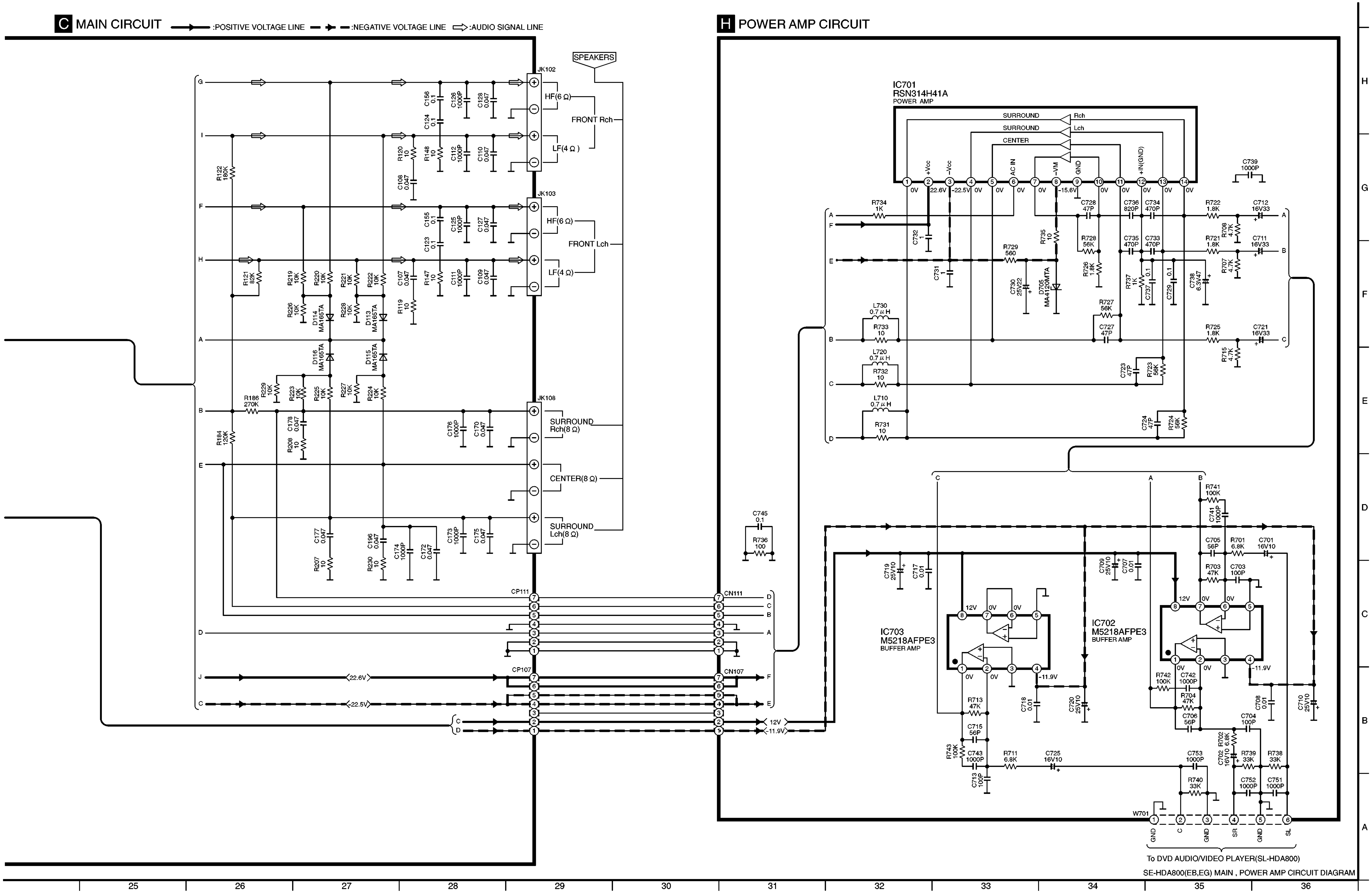
D **POWER TRANSFORMER (1) CIRCUIT**

E **POWER TRANSFORMER(2) CIRCUIT**

F **AC IN CIRCUIT**

G **RECTIFIER CIRCUIT**

SE-HDA800(EB,EG) MAIN , POWER TRANSFORMER(1) , (2) , AC IN , RECTIFIER CIRCUIT DIAGRAM


C MAIN CIRCUIT
:POSITIVE VOLTAGE LINE
:NEGATIVE VOLTAGE LINE
:AUDIO SIGNAL LINE
SPEAKERS
JK102
HF(6 Ω)
FRONT Rch
LF(4 Ω)
JK103
HF(6 Ω)
FRONT Lch
LF(4 Ω)
JK108
SURROUND Rch(8 Ω)
CENTER(8 Ω)
SURROUND Lch(8 Ω)
CP111
CP107
22.6V
-22.5V
H POWER AMP CIRCUIT
IC701
RSN314H41A
POWER AMP
SURROUND
Rch
SURROUND
Lch
CENTER
+Vcc
−Vcc
AC IN
−VM
GND
+IN(GND)
CN111
CN107
12V
-11.9V
IC703
M5218AFPE3
BUFFER AMP
IC702
M5218AFPE3
BUFFER AMP
W701
GND
C
GND
SR
GND
SL
To DVD AUDIO/VIDEO PLAYER(SL-HDA800)
SE-HDA800(EB,EG) MAIN , POWER AMP CIRCUIT DIAGRAM
25
26
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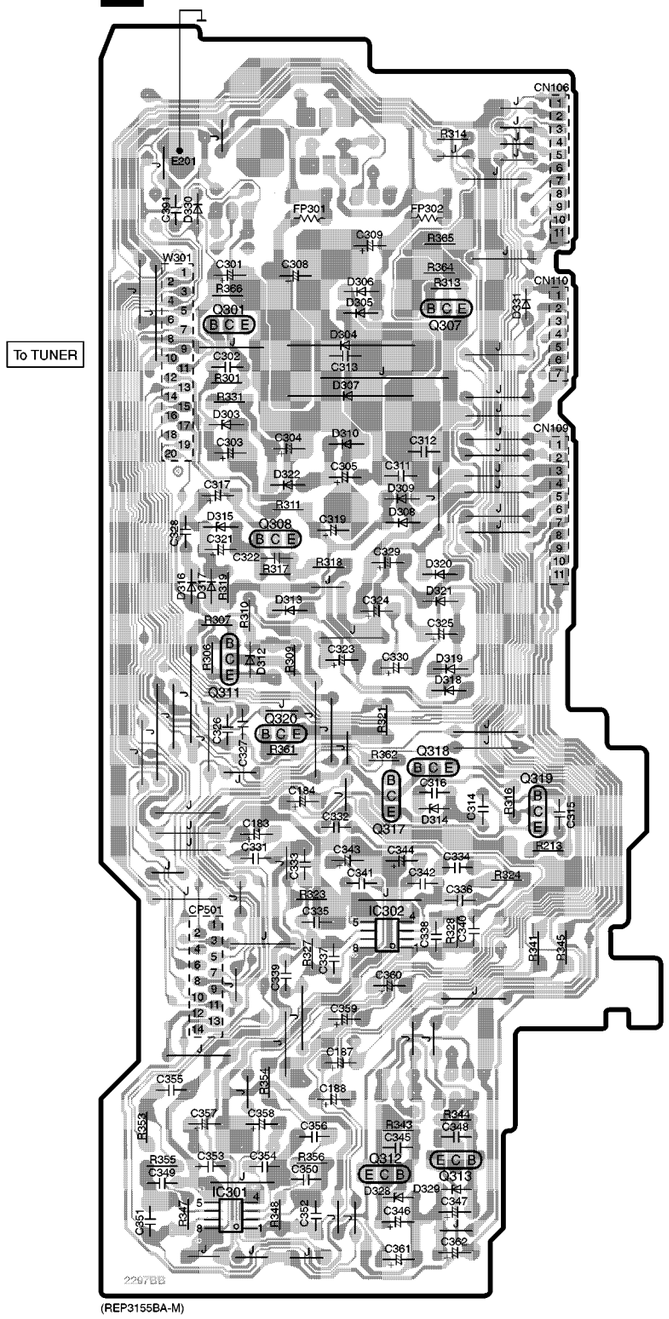
35
36
H
G
F
E
D
C
B
A

11 Printed Circuit Board Diagram

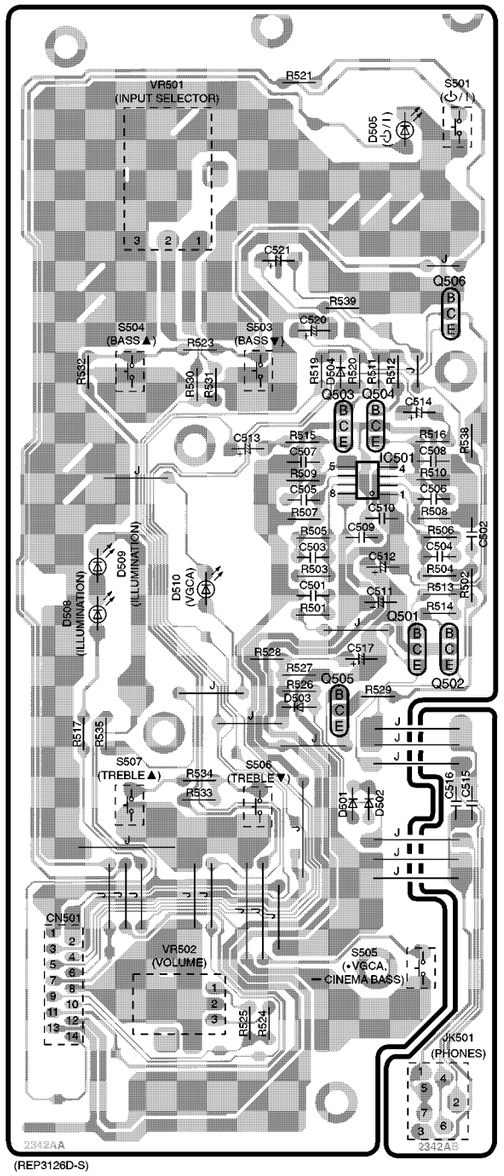
Note: This printed circuit board diagram may be modified at any time with the development of new technology.

A POWER SUPPLY P.C.B.



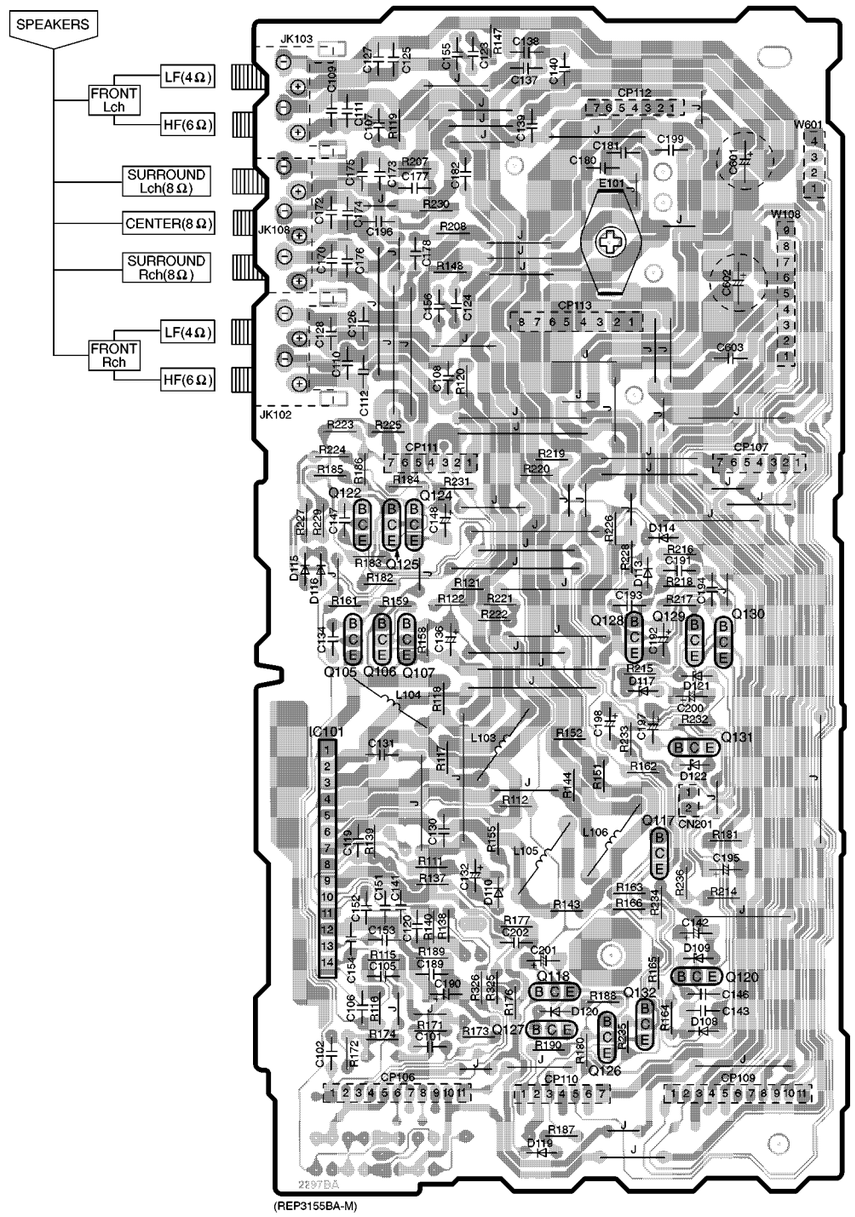
(REP3155BA-M)

B OPERATION P.C.B.



(REP3126D-S)

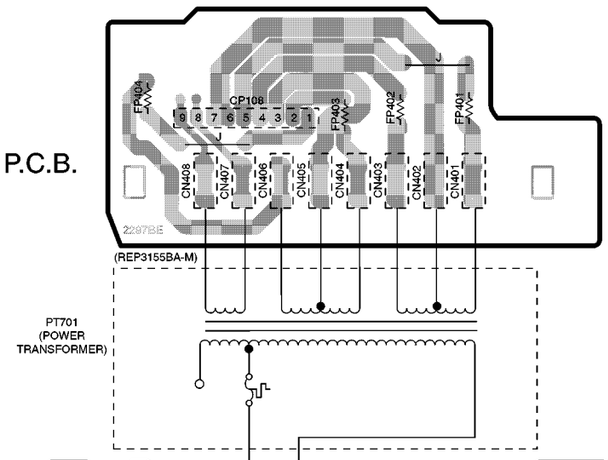
C MAIN P.C.B.



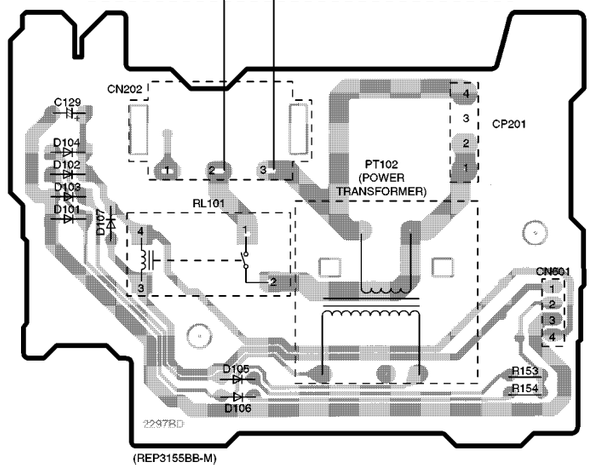
(REP3155BA-M)

SE-HDA800(EB,EG) POWER SUPPLY, OPERATION, MAIN P.C.B.

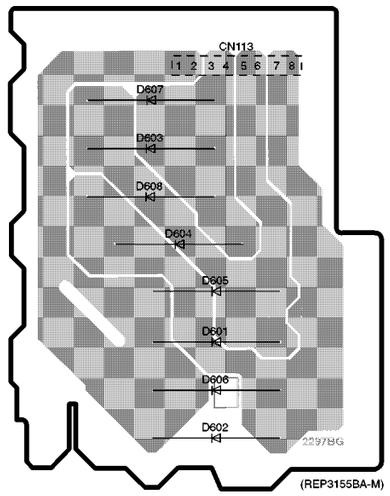
D POWER TRANSFORMER(1) P.C.B.



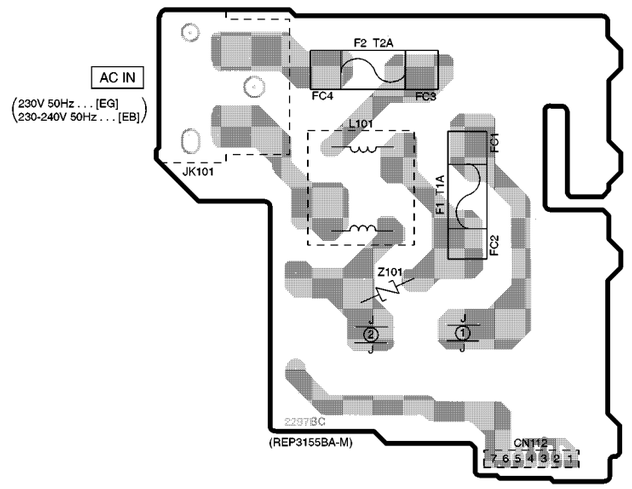
E POWER TRANSFORMER(2) P.C.B.



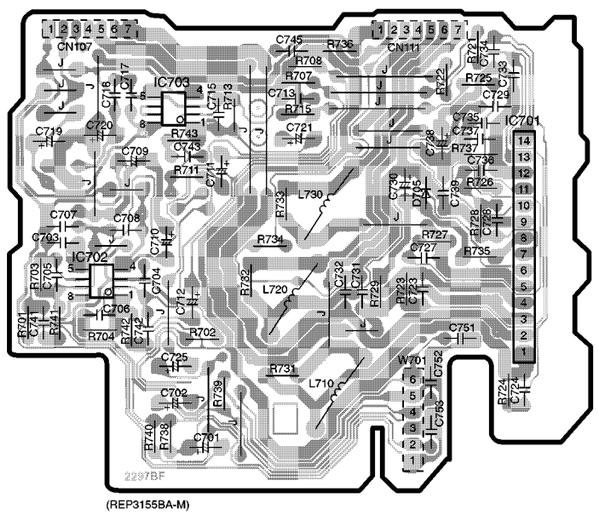
G RECTIFIER P.C.B.



F AC IN P.C.B.

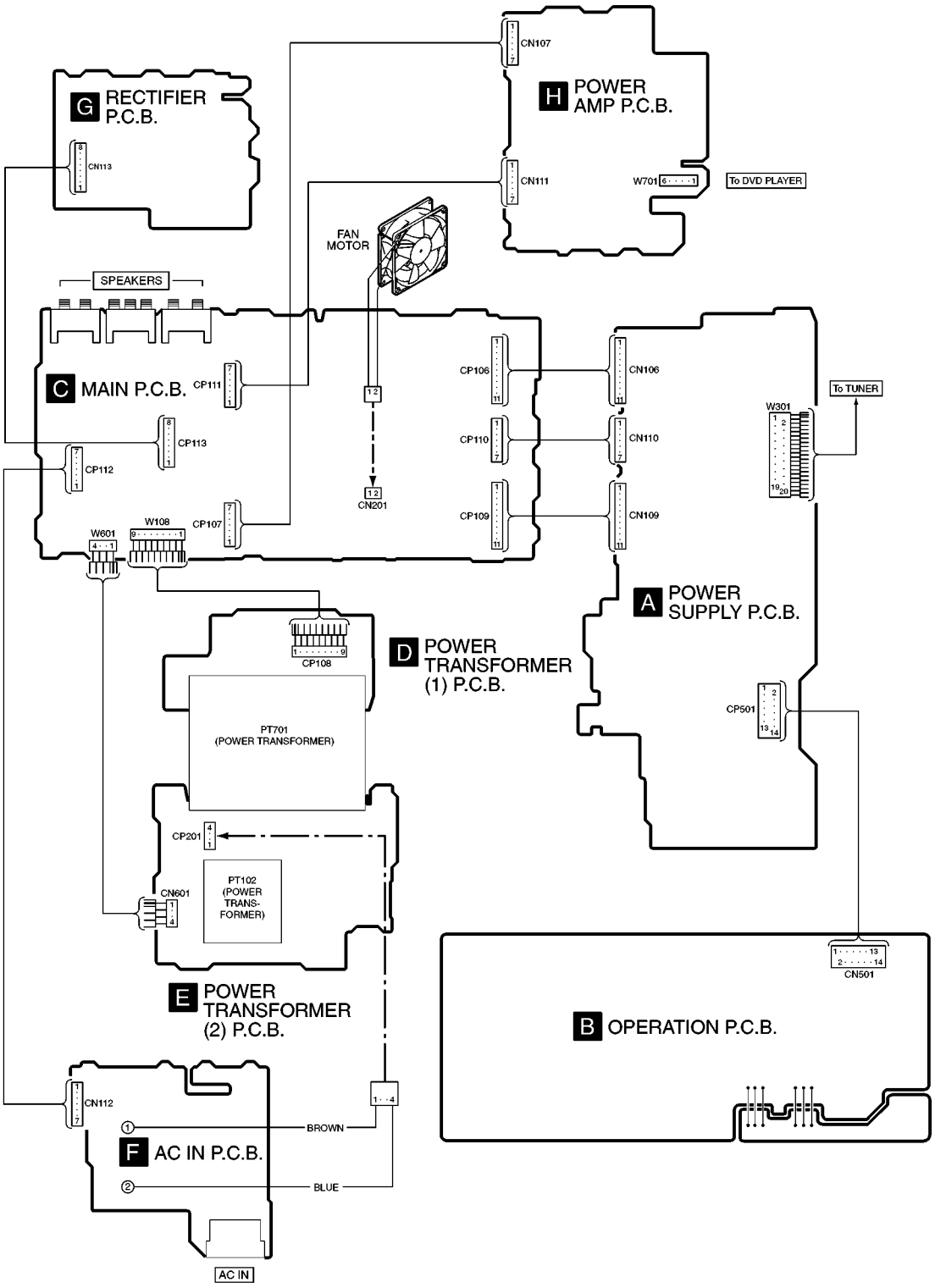


H POWER AMP P.C.B.

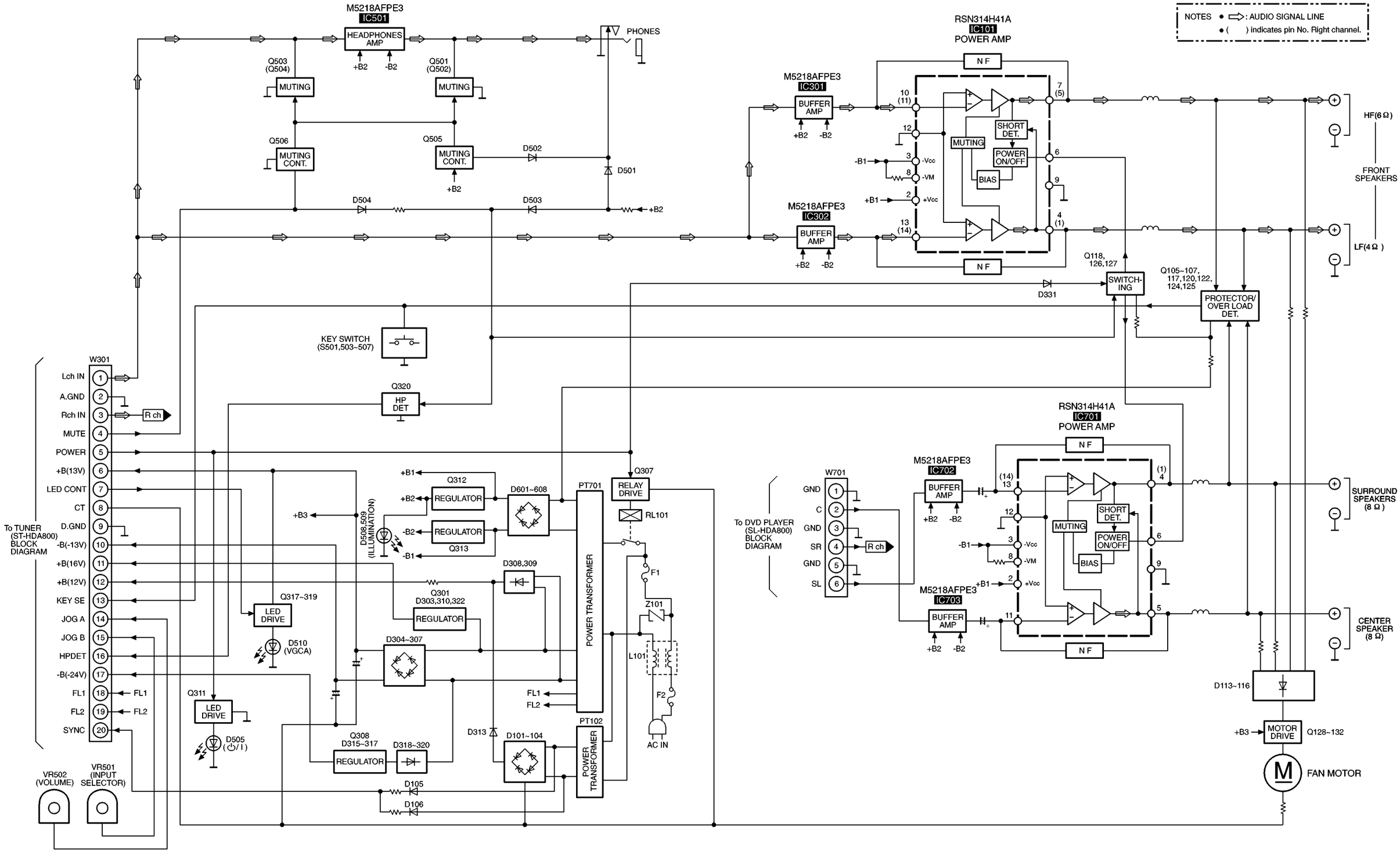


SE-HDA800(EB,EG) POWER TRANSFORMER(1)/(2), RECTIFIER, POWER AMP, AC IN P.C.B.

12 Wiring Connection Diagram



13 Block Diagram



SE-HDA800(EB,EG) BLOCK DIAGRAM

14 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 manufacture's specified parts shown in the parts list.

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

  <IA>: Germany, Italian, French

  <IB>: Netherlands, Danish, Swedish

  <IC>: English

  <ID>: Russian, Polish, Czech

- 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 dependentonthe 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	RHD30082-K1	SCREW	4	
2	RGK1324-1M	SIDE PANEL(L)	1	
3	RGK1325-1M	SIDE PANEL(R)	1	
4	RMZ0339	ZNR COVER	1	
5	RKA0114-K	FOOT	4	
5-1	RKA0083-K	CUSHION	4	
6	XTB3+5JFZ	SCREW	4	
7	RGG0186C-S	PANEL	1	
8	RGL0531-Q	INDICATOR,VGCA	1	
9	RGL0541-Q	INDICATOR,STBY	1	
10	RGP0838-S	SUB PANEL	1	
11	RGU1936-S	POWER BUTTON	1	
12	RGW0378-S	KNOB,VOLUME	1	
13	RGW0379-S	KNOB,SELECTOR	1	
14	RHD26016	SCREW	1	
15	RHN90001	NUT	2	
16	XTBS26+8J	SCREW	4	
17	XTBS3+8JFZ1	SCREW	13	
18	RGN2281C-K1	NAME PLATE	1	(EG)
18	RGN2281D-K1	NAME PLATE	1	(EB)
19	XTB3+20JFZ	SCREW	4	
21	XTW3+15T	SCREW	4	
22	RKM0412G-N	CABINET	1	
23	XTB3+6JFZ	SCREW	4	
24	XTB3+35JFZ	SCREW	2	
25	RGK1328-S	SIDE ORNAMENT(L)	1	
26	RGK1329-S	SIDE ORNAMENT(R)	1	
27	RGK1463-N	VOLUME ORNAMENT	2	
28	REX1081	WIRE ASS´Y	1	
29	REM0094A	FAN UNIT	1	
30	RGQ0328-K	FAN COVER	1	
31	RGQ0329-K	FAN COVER	1	
32	RKW0628-Q	WINDOW	1	
33	RKW0630-W	VGCA SHEET	1	
34	REE1087-1	FFC WIRE	1	
35	RMN0660	HOLDER	1	
36	RMN0623	LED HOLDER	1	
A1	EUR7702200	REMOTE CONTROLER	1	
A1-1	UR64EC2337E	BATTERY COVER	1	
A2	REE1195	SPEAKER CORD	2	
A3	REE1196A	SPEAKER CORD(BLUE/GRAY)	2	
A4	RSA0007	FM INDOOR ANTENNA	1	N1EAYY000002
A5	REE1196	SPEAKER CORD(BLUE/GRAY)	1	
A6	RJA0019-2X	AC POWER SUPPLY CORD	1	(EG) ⚠
A6	RJA0053-3X	AC POWER SUPPLY CORD	1	(EB) ⚠
A7	RQT6521-D	OPERATING INSTRUCTIONS	1	(EG)
A7	RQT6522-H	OPERATING INSTRUCTIONS	1	(EG)
A7	RQT6523-B	OPERATING INSTRUCTIONS	1	(EB)
A7	RQT6524-R	OPERATING INSTRUCTIONS	1	(EG)
A9	RQCB0169	SERVICE CENTER LIST	1	
A10	RQCA0888	SETTING GUIDE	1	(EB)
A11	SJP9009	ANTENNA PLUG ADAPTOR	1	K1YZ02000013 (EB)
A12	VFA0151-2	PLUG ADAPTOR	1	K1JZ24D00001
A13	RJL1P019B15	VIDEO CABLE	1	K2JA2A000018
A14	REX0941	SURROUND CABLE	1	
A15	RSA0035	AM LOOP ANTENNA	1	
C101,02	ECBT1C682KR5	16V 6800P	2	F1D1C682A010
C105,06	ECBT1H470J3	50V 47P	2	
C107-10	ECBT1H473KB5	50V 0.047U	4	F1D1H473A012
C111,12	ECBT1H102KB3	50V 1000P	2	
C119,20	ECBT1H470J3	50V 47P	2	
C123,24	ECBT1H104ZF5	50V 0.1U	2	F1E1H104A001
C125,26	ECBT1H102KB3	50V 1000P	2	
C127,28	ECBT1H473KB5	50V 0.047U	2	F1D1H473A012
C129	ECA1CAM331XB	16V 330U	1	
C130,31	ECBT1H105ZF5	50V 1U	2	F1E1H105A001
C132	ECA1EAK220XB	25V 22U	1	
C134	ECBT1H223KB5	50V 0.022U	1	F1D1H223A012
C136	ECA0JAK101XB	6.3V 100U	1	
C137-40	ECBT1H473KB5	50V 0.047U	4	F1D1H473A012
C141	ECBT1H471KB3	50V 470P	1	
C142	ECA1HAM470XB	50V 47U	1	
C143	ECKR2H102ZF5	500V 1000P	1	
C146,47	ECBT1H223KB5	50V 0.022U	2	F1D1H223A012
C148	ECA0JAK101XB	6.3V 100U	1	
C151-54	ECBT1H821KB5	50V 820P	4	F1D1H821A012
C155,56	ECBT1H104ZF5	50V 0.1U	2	F1E1H104A001
C170	ECBT1H473KB5	50V 0.047U	1	F1D1H473A012
C172	ECBT1H473KB5	50V 0.047U	1	F1D1H473A012
C173,74	ECBT1H102KB3	50V 1000P	2	
C175	ECBT1H473KB5	50V 0.047U	1	F1D1H473A012
C176	ECBT1H102KB3	50V 1000P	1	
C177,78	ECBT1H473KB5	50V 0.047U	2	F1D1H473A012
C180-82	ECBT1H473KB5	50V 0.047U	3	F1D1H473A012
C183,84	ECA1CAK100XB	16V 10U	2	
C187,88	ECA1CAK330XB	16V 33U	2	
C189	ECBT1H104KB5	50V 0.1U	1	F1D1H1040002
C190	RCE0JKA470BG	6.3V 47U	1	F2A0J470A014
C191	ECBT1H103KB5	50V 1000P	1	ECBT1H103KB3
C192	ECA1HAK2R2XB	50V 2.2U	1	
C193,94	ECBT1H103KB5	50V 1000P	2	ECBT1H103KB3
C195	ECA1EAK100XB	25V 10U	1	
C196	ECBT1H473KB5	50V 0.047U	1	F1D1H473A012
C197	ECA1EAK100XB	25V 10U	1	
C198	ECA0JAK101XB	6.3V 100U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C199	ECBT1C222KR5	16V 2200P	1	ECBT1C222KR3
C200	ECA1CAK220XB	16V 22U	1	
C201	ECA1CAK100XB	16V 10U	1	
C202	ECBT1H102KB3	50V 1000P	1	
C301	ECA1EAK4R7XB	25V 4.7U	1	
C302	ECBT1H103KB5	50V 1000P	1	ECBT1H103KB3
C303	ECA1EAM101XB	25V 100U	1	
C304	ECA1HAM101XB	50V 100U	1	
C305	ECA1EAM101XB	25V 100U	1	
C308	ECA1EM222	25V 2200U	1	
C309	F2A1E471A013	25V 470U	1	
C311	ECKR1H103ZF5	50V 0.01U	1	F1B1H1030001
C312,13	ECBT1H103KB5	50V 1000P	2	ECBT1H103KB3
C314	ECBT1H104KB5	50V 0.1U	1	F1D1H1040002
C315	ECBT1H103KB5	50V 1000P	1	ECBT1H103KB3
C316	ECBT1H104ZF5	50V 0.1U	1	F1E1H104A001
C317	ECA1VAM101XB	35V 100U	1	
C319	ECA1EAM331XB	25V 330U	1	
C321	RCE1VKA100BG	35V 10U	1	F2A1V1000011
C322	ECBT1H103KB5	50V 1000P	1	ECBT1H103KB3
C323	ECA2AM100	100V 10U	1	
C324	ECA1JAM101XB	63V 100U	1	
C325	ECA1HAM470XB	50V 47U	1	
C326,27	ECBA1H101KB5	50V 100P	2	
C328	ECBT1H104ZF5	50V 0.1U	1	F1E1H104A001
C329	ECA1EAM101XB	25V 100U	1	
C330	ECA1JAM101XB	63V 100U	1	
C331,32	ECQB1H332JF3	50V 3300P	2	
C333,34	ECQV1H563JM3	50V 0.056U	2	
C335,36	ECBT1H473KB5	50V 0.047U	2	F1D1H473A012
C337,38	ECBT1H150JC3	50V 15P	2	
C339,40	ECQB1H682JF3	50V 6800P	2	
C341,42	ECBT1H103KB5	50V 1000P	2	ECBT1H103KB3
C343,44	ECA1HPX100B	50V 10U	2	
C345	ECBT1H103KB5	50V 1000P	1	ECBT1H103KB3
C346,47	ECA1EAK100XB	25V 10U	2	
C348	ECBT1H103KB5	50V 1000P	1	ECBT1H103KB3
C349,50	ECBA1H101KB5	50V 100P	2	
C351,52	ECQB1H153JF3	50V 0.015U	2	
C353,54	ECBT1H103KB5	50V 1000P	2	ECBT1H103KB3
C355,56	ECQV1H184JM3	50V 0.18U	2	
C357,58	ECA1HPX100B	50V 10U	2	
C359,60	ECA1CAK330XB	16V 33U	2	
C361,62	ECA1EAK100XB	25V 10U	2	
C391	ECBT1H471KB3	50V 470P	1	
C501,02	ECBT1H103KB5	50V 1000P	2	ECBT1H103KB3
C503-06	ECBA1H101KB5	50V 100P	4	
C507,08	ECBT1H331KB3	50V 330P	2	
C509,10	ECBT1H103KB5	50V 1000P	2	ECBT1H103KB3
C511,12	ECA1EAK4R7XB	25V 4.7U	2	
C513,14	ECA1HAK010XI	50V 1U	2	
C515,16	ECBT1H473ZF5	50V 0.047U	2	F1E1H473A001
C517	ECA0JAK221XH	6.3V 220U	1	
C520,21	ECA1HAK010XI	50V 1U	2	
C601,02	EEUPL1V362E	35V 3600U	2	
C603	ECQE1104KF3	100V 0.1U	1	
C701,02	ECA1CAK100XB	16V 10U	2	
C703,04	ECBA1H101KB5	50V 100P	2	
C705,06	ECBT1H560J3	50V 56P	2	
C707,08	ECBT1H103KB5	50V 1000P	2	ECBT1H103KB3
C709,10	ECA1EAK100XB	25V 10U	2	
C711,12	ECA1CAK330XB	16V 33U	2	
C713	ECBA1H101KB5	50V 100P	1	
C715	ECBT1H560J3	50V 56P	1	
C717,18	ECBT1H103KB5	50V 1000P	2	ECBT1H103KB3
C719,20	ECA1EAK100XB	25V 10U	2	
C721	ECA1CAK330XB	16V 33U	1	
C723,24	ECBT1H470J3	50V 47P	2	
C725	ECA1CAK100XB	16V 10U	1	
C727,28	ECBT1H470J3	50V 47P	2	
C729	ECBT1H104ZF5	50V 0.1U	1	F1E1H104A001
C730	ECA1EAK220XB	25V 22U	1	
C731,32	ECBT1H105ZF5	50V 1U	2	F1E1H105A001

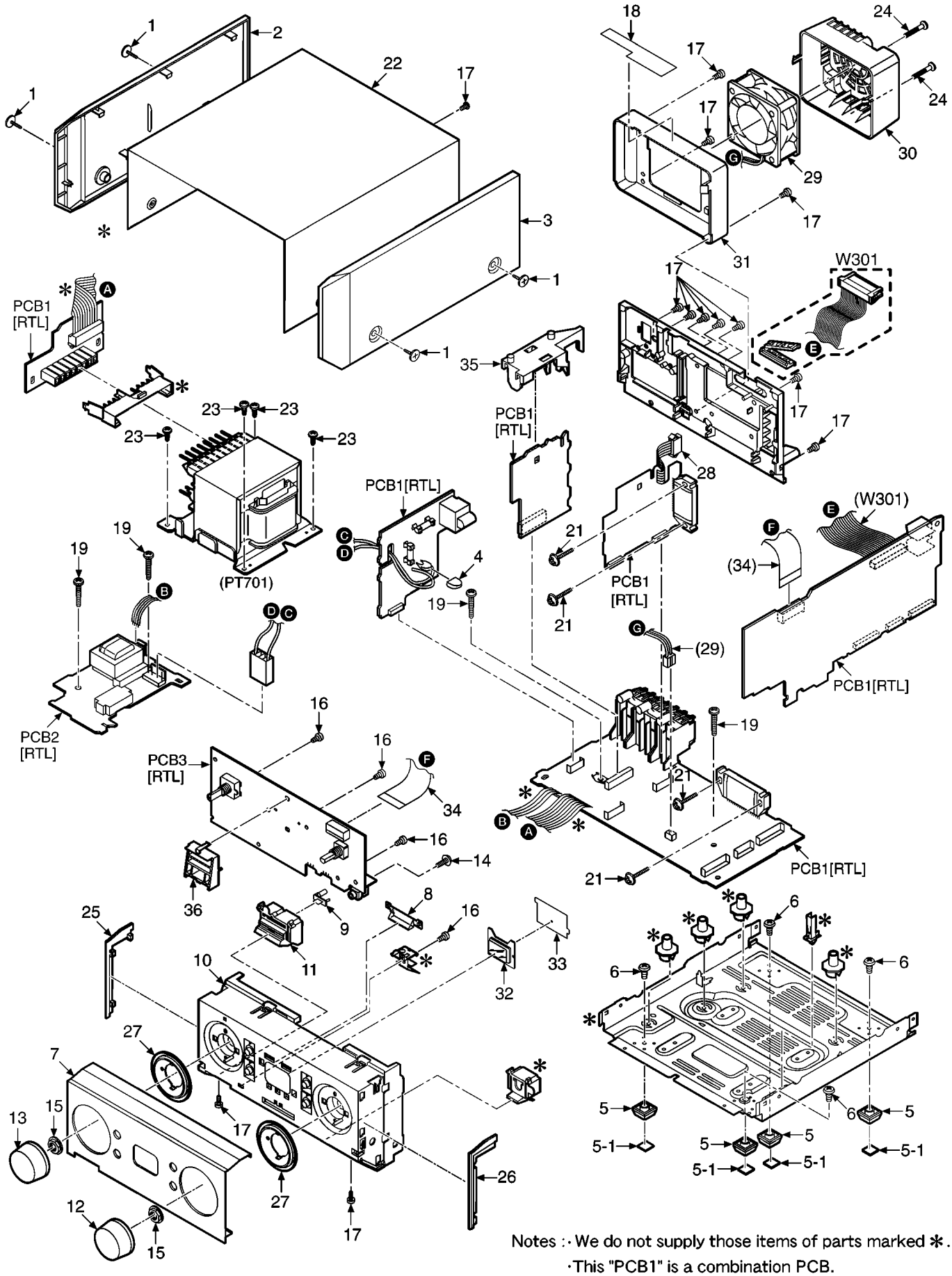
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C733-35	ECBT1H471KB5	50V 470P	3	F1D1H471A012
C736	ECBT1H821KB5	50V 820P	1	F1D1H821A012
C737	ECBT1H104ZF5	50V 0.1U	1	F1E1H104A001
C738	RCE0JKA470BG	6.3V 47U	1	F2A0J470A014
C739	ECBT1H102KB3	50V 1000P	1	
C741-43	ECBT1H102KB3	50V 1000P	3	
C745	ECBT1H104KB5	50V 0.1U	1	F1D1H1040002
C751-53	ECBT1H102KB3	50V 1000P	3	
CN106	RJU100W11	CONNECTOR(11P)	1	K1KB11A00020
CN107	RJU100W07	CONNECTOR(7P)	1	K1KB07A00018
CN109	RJU100W11	CONNECTOR(11P)	1	K1KB11A00020
CN110-12	RJU100W07	CONNECTOR(7P)	3	K1KB07A00018
CN113	SJT30845JQ	CONNECTOR(8P)	1	K1KA08B00125
CN201	SJT3213	CONNECTOR(2P)	1	K1KA02A00008
CN202	SJS305-1	CONNECTOR(3P)	1	K1ML03B00002
CN401-08	RJS1A1101T1	CONNECTOR(1P)	8	
CN501	RJS1A6214-1	CONNECTOR(14P)	1	K1MN14C00002
CN601	RJS1A6604T1	CONNECTOR(4P)	1	K1MP04A00008
CP106	RJT100W11	CONNECTOR(11P)	1	K1KA11A00093
CP107	RJT100W07	CONNECTOR(7P)	1	K1KA07A00082
CP108	RJS9T6ZA	CONNECTOR(9P)	1	K1MP09B00005
CP109	RJT100W11	CONNECTOR(11P)	1	K1KA11A00093
CP110-12	RJT100W07	CONNECTOR(7P)	3	K1KA07A00082
CP113	SJS50878JQ	CONNECTOR(8P)	1	K1KB08A00060
CP201	RJP1A4204-1	CONNECTOR(4P)	1	K1KA03A00143
CP501	RJS1A6714-Q	CONNECTOR(14P)	1	K1MN14B00054
D101-04	RL1N4003N02	DIODE	4	B0AAMM000009
D105-07	MA165	DIODE	3	MA2C165
D108	RL1N4003N02	DIODE	1	B0AAMM000009
D109	MA4051M	DIODE	1	MAZ40510M
D110	MA4120M	DIODE	1	MAZ41200M
D113-16	MA165	DIODE	4	MA2C165
D117	MA4120M	DIODE	1	MAZ41200M
D119,20	MA165	DIODE	2	MA2C165
D121	MA4068M	DIODE	1	MAZ40680M
D122	MA719TA	DIODE	1	MA2C71900A
D303	MA4160M	DIODE	1	MAZ41600M
D304	1N5402BF	DIODE	1	
D305,06	RL1N4003N02	DIODE	2	B0AAMM000009
D307	1N5402BF	DIODE	1	
D308-10	RL1N4003N02	DIODE	3	B0AAMM000009
D312	MA4051M	DIODE	1	MAZ40510M
D313	RL1N4003N02	DIODE	1	B0AAMM000009
D314	MA4091MTA	DIODE	1	MAZ40910MF
D315	MA4240H	DIODE	1	MAZ42400H
D316-22	RL1N4003N02	DIODE	7	B0AAMM000009
D328,29	MA4120M	DIODE	2	MAZ41200M
D330,31	MA165	DIODE	2	MA2C165
D501-04	MA165	DIODE	4	MA2C165
D505	SLR-325VC	LED	1	B3AAA0000487
D508,09	SELS5923C	LED	2	B3ADA0000083
D510	SLR-325MC	LED	1	B3ABA0000187
D601-08	SB360L6508	DIODE	8	B0JAPG000014
D705	MA4120M	DIODE	1	MAZ41200M
F1	K5D102BA0003	FUSE,T1A	1	⚠ ;
F2	XBA2C20TB0	FUSE,T2A	1	K5D202BL0004 ⚠
FP301 02	RSFMB40KT-L	PROTECTOR	2	K5G402A00010 ⚠
FP401 02	RSFMB70KT-L	FUSE PROTECTOR	2	⚠
FP403 04	K5G502AA0003	FUSE PROTECTOR	2	⚠
IC101	RSN314H41A	IC	1	
IC301,02	M5218AFPE3	IC	2	C0ABBB000163
IC501	M5218AFPE3	IC	1	C0ABBB000163
IC701	RSN314H41A	IC	1	
IC702,03	M5218AFPE3	IC	2	C0ABBB000163

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
JK101	SJS9236-1	JACK,AC INLET	1	K2AA2B000002 ⚠
JK102 03	K4BC04B00029	SYSTEM CONNECTOR(29P)	2	
JK108	K4BC06B00008	SPTERMINAL(6P)	1	
JK501	RJJ37TN01-2C	H.P. JACK	1	K2HC103B0106
L101	RLQZ371	COIL	1	ELF15N035AN ⚠
L103-06	RLQYR73MW1-0	COIL	4	G0ZZ00001606
L710	RLQYR73MW1-0	COIL	1	G0ZZ00001606
L720	RLQYR73MW1-0	COIL	1	G0ZZ00001606
L730	RLQYR73MW1-0	COIL	1	G0ZZ00001606
P1	RPG5244	PACKING CASE(RS)		
P1	RPG5245	PACKING CASE(ST)		
P1	RPG5451	PACKING CASE(SE)	1	
P1	RPG5453	PACKING CASE(SL)		
P2	RPN1389	CUSHION(ST)		
P2	RPN1390	CUSHION(RS)		
P2	RPN1429-1	CUSHION(SE)	1	
P2	RPN1430	CUSHION(SL)		
P3	SPP740-1	POLY BAG	1	
P4	RPG5614	PACKING CASE(SYSTEM)	1	(EG)
P4	RPG5615	PACKING CASE(SYSTEM)	1	(EB)
P5	RPQ1187-1	SPACER	1	
P6	RPF0139-1	PROTECTION BAG(ACCESS.)	1	
P7	RPQ1230	SPACER	1	
PCB1	REP3155BA-M	P.C.B. ASS´Y	1	[RTL]
PCB2	REP3155BB-M	P.C.B. ASS´Y	1	[RTL]
PCB3	REP3126D-S	P.C.B. ASS´Y	1	[RTL]
PT102	RTP1H3E001	POWER TRANSFORMER	1	ETP28KBZ21BG ⚠
PT701	ETP69VPU613A	MAINPOWERTRANS	1	(EG) ⚠
PT701	ETP69VPU614A	MAINPOWERTRANS	1	(EB) ⚠
Q105	2SA1309ATA	TRANSISTOR	1	2SA1309AWA
Q106,07	2SC3311ATA	TRANSISTOR	2	2SC3311A0A
Q117,18	2SC3311ATA	TRANSISTOR	2	2SC3311A0A
Q120	2SC3311ATA	TRANSISTOR	1	2SC3311A0A
Q122	2SA1309ATA	TRANSISTOR	1	2SA1309AWA
Q124,25	2SC3311ATA	TRANSISTOR	2	2SC3311A0A
Q126	UN4211	TRANSISTOR	1	UNR4211
Q127,28	2SC3311ATA	TRANSISTOR	2	2SC3311A0A
Q129	2SA1309ATA	TRANSISTOR	1	2SA1309AWA
Q130	2SD592AR	TRANSISTOR	1	2SD0592AR
Q131,32	2SC3311ATA	TRANSISTOR	2	2SC3311A0A
Q301	2SC3940AQSTA	TRANSISTOR	1	2SC3940ARA
Q307	2SC3311ATA	TRANSISTOR	1	2SC3311A0A
Q308	2SB621A-R	TRANSISTOR	1	2SB0621AH
Q311	2SC3311ATA	TRANSISTOR	1	2SC3311A0A
Q312	2SD2137PQTA	TRANSISTOR	1	2SD21370PA
Q313	2SB1417PQTA	TRANSISTOR	1	2SB14170JA
Q317	UN4211	TRANSISTOR	1	UNR4211
Q318	UN4111	TRANSISTOR	1	UNR4111
Q319	2SC3311ATA	TRANSISTOR	1	2SC3311A0A
Q320	UN4211	TRANSISTOR	1	UNR4211
Q501-04	2SD2144S	TRANSISTOR	4	B1AAGC000006
Q505	UN4111	TRANSISTOR	1	UNR4111
Q506	UN4115	TRANSISTOR	1	UNR411500A
R111	ERD2FCG100	1/4W 10	1	
R112	ERDS2FJ102	1/4W 1K	1	
R115,16	ERDS2FJ273	1/4W 27K	2	
R117,18	ERDS2FJ100	1/4W 10	2	
R119,20	ERDS1FJ100	1/2W 10	2	
R121	ERDS2TJ823T	1/4W 82K	1	
R122	ERDS2TJ184T	1/4W 180K	1	
R137,38	ERDS2FJ182	1/4W 1.8K	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R139,40	ERDS2FJ273	1/4W 27K	2	
R143,44	ERDS2FJ100	1/4W 10	2	
R147,48	ERDS1FJ100	1/2W 10	2	
R151	ERDS2TJ823T	1/4W 82K	1	
R152	ERDS2TJ124	1/4W 120K	1	
R153,54	ERDS2FJ102	1/4W 1K	2	
R155	ERDS1FJ561	1/2W 560	1	
R158	ERDS2TJ823T	1/4W 82K	1	
R159	ERDS2FJ564	1/4W 560K	1	
R161	ERDS2FJ223	1/4W 22K	1	
R162	ERDS2FJ103	1/4W 10K	1	
R163	ERDS2FJ473	1/4W 47K	1	
R164	ERDS2FJ332	1/4W 3.3K	1	
R165	ERDS2FJ104	1/4W 100K	1	
R166	ERDS2FJ223	1/4W 22K	1	
R171,72	ERDS2FJ332	1/4W 3.3K	2	
R173,74	ERDS2TJ272T	1/4W 2.7K	2	
R176,77	ERDS2FJ152	1/4W 1.5K	2	
R180	ERDS2FJ103	1/4W 10K	1	
R181	ERDS2FJ1R0	1/4W 1	1	
R182	ERDS2FJ223	1/4W 22K	1	
R183	ERDS2FJ564	1/4W 560K	1	
R184,85	ERDS2TJ124	1/4W 120K	2	
R186	ERDS2FJ274	1/4W 270K	1	
R187,88	ERDS2FJ103	1/4W 10K	2	
R189,90	ERDS2FJ102	1/4W 1K	2	
R207,08	ERDS1FJ100	1/2W 10	2	
R213	ERD2FCG100	1/4W 10	1	
R214	ERDS2FJ220	1/4W 22	1	
R215	ERDS2FJ561	1/4W 560	1	
R216,17	ERDS2FJ472	1/4W 4.7K	2	
R218	ERDS2FJ104	1/4W 100K	1	
R219-29	ERDS2FJ103	1/4W 10K	11	
R230	ERDS1FJ100	1/2W 10	1	
R231	ERDS2TJ184T	1/4W 180K	1	
R232	ERDS2FJ104	1/4W 100K	1	
R233	ERDS2FJ101	1/4W 100	1	
R234	ERDS2FJ563	1/4W 56K	1	
R235	ERDS2FJ473	1/4W 47K	1	
R236	ERDS2FJ470	1/4W 47	1	
R301	ERDS2TJ392T	1/4W 3.9K	1	
R306	ERDS2FJ473	1/4W 47K	1	
R307	ERDS2FJ103	1/4W 10K	1	
R309	ERDS2FJ331	1/4W 330	1	
R310	ERDS2FJ681	1/4W 680	1	
R311	ERDS1FJ3R3	1/2W 3.3	1	
R313	ERDS2FJ473	1/4W 47K	1	
R314	ERDS2TJ392T	1/4W 3.9K	1	
R316	ERDS2FJ102	1/4W 1K	1	
R317	ERDS2FJ472	1/4W 4.7K	1	
R318	ERDS2FJ100	1/4W 10	1	
R319	ERDS2FJ101	1/4W 100	1	
R321	ERDS2FJ103	1/4W 10K	1	
R323,24	ERDS2FJ153	1/4W 15K	2	
R325,26	ERDS2FJ122	1/4W 1.2K	2	
R327,28	ERDS2TJ184T	1/4W 180K	2	
R331	ERD2FCG100	1/4W 10	1	
R341	ERD2FCG100	1/4W 10	1	
R343,44	ERDS2FJ102	1/4W 1K	2	
R345	ERD2FCG100	1/4W 10	1	
R347,48	ERDS2FJ393	1/4W 39K	2	
R353,54	ERDS2FJ473	1/4W 47K	2	
R355,56	ERDS2FJ563	1/4W 56K	2	
R361,62	ERDS2FJ102	1/4W 1K	2	
R364,65	ERDS2TJ560T	1/4W 56	2	
R366	ERDS2FJ103	1/4W 10K	1	
R501-04	ERDS2FJ470	1/4W 47	4	
R505,06	ERDS2FJ153	1/4W 15K	2	
R507,08	ERDS2FJ103	1/4W 10K	2	
R509,10	ERDS2FJ223	1/4W 22K	2	
R511-14	ERDS2FJ102	1/4W 1K	4	
R515,16	ERDS2FJ223	1/4W 22K	2	
R517	ERDS2FJ561	1/4W 560	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R519,20	ERDS2FJ102	1/4W 1K	2	
R521	ERDS2FJ821	1/4W 820	1	
R523	ERDS2FJ102	1/4W 1K	1	
R524	ERDS2FJ153	1/4W 15K	1	
R525	ERDS2FJ103	1/4W 10K	1	
R526	ERDS2FJ102	1/4W 1K	1	
R527	ERDS2FJ222	1/4W 2.2K	1	
R528,29	ERDS2FJ472	1/4W 4.7K	2	
R530	ERDS2FJ153	1/4W 15K	1	
R531	ERDS2FJ103	1/4W 10K	1	
R532	ERDS2FJ122	1/4W 1.2K	1	
R533	ERDS2FJ152	1/4W 1.5K	1	
R534	ERDS2FJ182	1/4W 1.8K	1	
R535	ERDS2FJ471	1/4W 470	1	
R538	ERDS2FJ474	1/4W 470K	1	
R539	ERDS2FJ154	1/4W 150K	1	
R701,02	ERDS2TJ682T	1/4W 6.8K	2	
R703,04	ERDS2FJ473	1/4W 47K	2	
R707,08	ERDS2FJ472	1/4W 4.7K	2	
R711	ERDS2TJ682T	1/4W 6.8K	1	
R713	ERDS2FJ473	1/4W 47K	1	
R715	ERDS2FJ472	1/4W 4.7K	1	
R721,22	ERDS2FJ182	1/4W 1.8K	2	
R723,24	ERDS2FJ563	1/4W 56K	2	
R725,26	ERDS2FJ182	1/4W 1.8K	2	
R727,28	ERDS2FJ563	1/4W 56K	2	
R729	ERDS1FJ561	1/2W 560	1	
R731-33	ERDS2FJ100	1/4W 10	3	
R734	ERDS2FJ102	1/4W 1K	1	
R735	ERD2FCG100	1/4W 10	1	
R736	ERDS2FJ101	1/4W 100	1	
R737	ERDS2FJ102	1/4W 1K	1	
R738-40	ERDS2FJ333	1/4W 33K	3	
R741-43	ERDS2FJ104	1/4W 100K	3	
RL101	RSY0040M-0	RELAY	1	⚠
S501	EVQ11G05R	SW,OPERATION	1	
S503-07	EVQ11G05R	SW,OPERATION	5	
VR501	K9AA012A0003	V.R.,INPUT SELECTOR	1	
VR502	EVEKC2F2524B	V.R.,VOLUME	1	
W301	REX0962	SYSTEM CABLE	1	
Z101	ERZV10V511CS	ZNR	1	⚠

15 Cabinet Parts Location



Notes : · We do not supply those items of parts marked ✻.
·This "PCB1" is a combination PCB.

16 Packaging