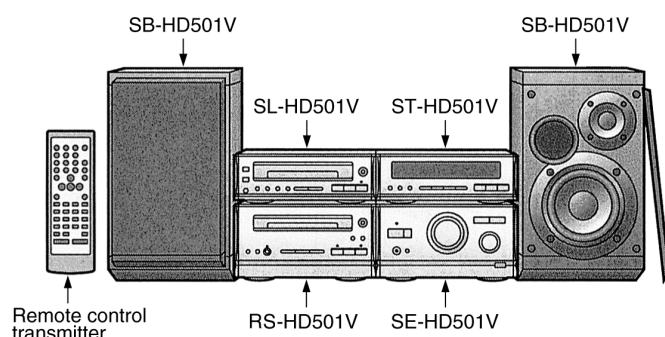


Service Manual

Amplifier



SE-HD501V

Colour

(N).....Gold Type

Areas

GC.....Asia, Latin America, Middle Near East and Africa.

GK.....China.

System: SC-HD501V

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

Specification

IAmplifier Section (Low frequency side)

Power output

DIN 1kHz, THD 1%, both channels driven: 2x12W(6Ω)

RMS 1 kHz, THD 10%, both channels driven: 2x15W(6Ω)

Total harmonic distortion

Half power at 1 kHz: 0.09%(6Ω)

Load impedanced: 6Ω

S/N: 75dB

IAmplifier Section (High frequency side)

Power output

DIN 10kHz, THD 1%, both channels driven: 2x5W(6Ω)

RMS 10kHz, THD 10%, both channels driven: 2x8W(6Ω)

Load impedanced: 6Ω

S/N: 75dB

Headphones

Jack type: 3.5mm STEREO

Load impedanced: 16-32Ω

IGeneral

Power consumption: 78W

STANDBY condition Normal: 9W

Eco: 0.8W

Power supply

[For (GK) area]: 220V, AC50Hz

[For (GC) area]: 220-240V, AC 50/60Hz

Dimensions (WxHxD): 196x104x270mm

Weight: 3.4kg

Notes:

1. Specifications are subject to change without notice.
2. Dimensions and Weight are approximate.
3. Total harmonic distortion is measured by the digital spectrum analyzer.

System/SC-HD501V:

Tuner: ST-HD501V, Compact Disc Player: SL-HD501V, Amplifier: SE-HD501V, Cassette Deck: RS-HD501V, Speakers: SB-HD501V (Made in MESA.)

⚠ 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.

Panasonic®

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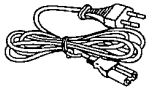
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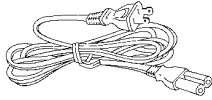
1 Accessories

- AC power supply cord1pc.

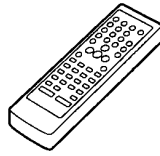
For (GC) area:
(RJA0019-1X)



For (GK) area:
(RJA0055-K)

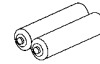


- Remote control transmitter1pc.
(RAK-HDA09WH)

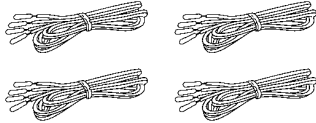


- Remote control batteries2pcs.

[R6/LR6(AA, UM-3)]
Note: These are available
on sales route.



- Speaker cord4pcs.
(REE0499) (REE0853)



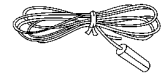
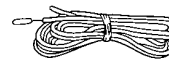
- Video connection cable1pc.
(RJL1P019B15)



- FM indoor antenna1pc.

For (GC) area:
(RSA0006)

For (GK) area:
(RSA0007)



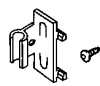
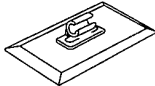
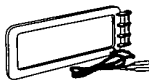
- AM loop antenna set (RSA0021)

AM loop antenna1pc.

Antenna holder with stand1pc.

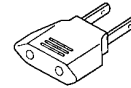
Antenna holder1pc.

Screw1pc.



- Power plug adaptor1pc.

For (GC) area only:
(SJP5213-2)

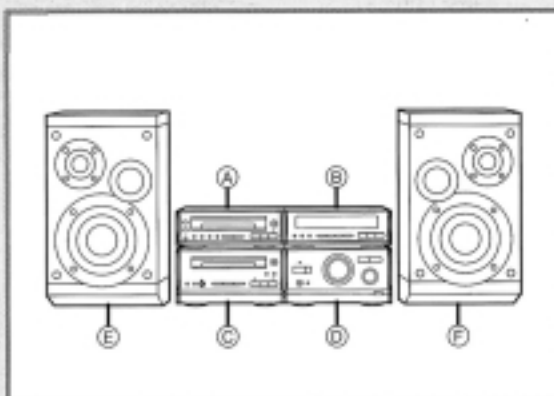
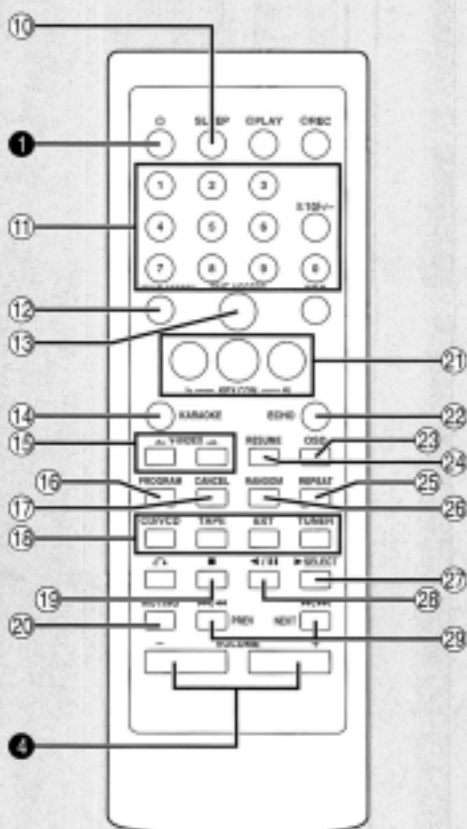
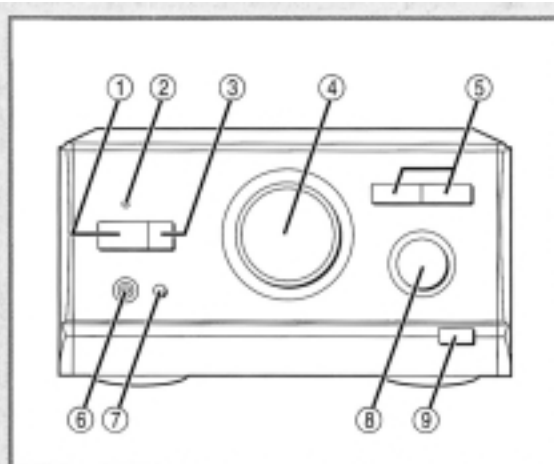


2 Before Repair and Adjustment

1. Turn off the power supply. Using a 10Ω , 10W resistor, connect both ends of power supply capacitors (C102-105, 127) 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 50/60 Hz in NO SIGNAL mode should be shown below with respect to supply voltage 220 V-240 V.

Area	(GC)		(GK)	
Power supply voltage	AC 220-240V		AC 220V	
Consumed current 50 Hz	50/60 Hz	50-150 mA	50 Hz	50-150 mA

3 Operating Instructions



Front panel controls

Amplifier section

- ① Standby/on switch (⏻/⏻)
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 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.
- ③ Eco mode button (ECO)
- ④ Volume control (VOLUME)
- ⑤ Input source select buttons (V, A INPUT SELECTOR)
- ⑥ Headphones jack (PHONES)
- ⑦ Surround button (SURROUND)
- ⑧ Fine tweeter control (FINE TWEETER CONTROL)
- ⑨ Bass button (BLFS)

Remote control

Buttons such as ❶ function the same as the buttons on the main unit.

- ❶ Sleep timer button (SLEEP)
- ❷ Numeric buttons
- ❸ Multi-screen button (MULTI SCREEN)
- ❹ Time access button (TIME ACCESS)
- ❺ Karaoke button (KARAOKE)
- ❻ Video index search buttons (V-INDEX ⏮, ⏭)
- ❼ Program button (PROGRAM)
- ❽ Cancel button (CANCEL)
- ❾ Input selection buttons (CD/VCD, TAPE, EXT, TUNER)
- ❿ CD/tape stop button (■)
- ⓫ Muting button (MUTING)
- ⓬ Key control buttons (KEY CON, ⏮, #)
- ⓭ Echo select button (ECHO)
- ⓮ On screen display on/off button (OSD)
- ⓯ Resume button (RESUME)
- ⓰ Repeat button (REPEAT)
- ⓱ Random button (RANDOM)
- ⓲ CD play, tape forward playback, menu select button (▶ SELECT)
- ⓳ Tape reverse playback, CD pause button (⏮/⏮)
- ⓴ CD skip/search, tape fast forward/rewind, next/previous buttons (⏮/⏮, PREV, ⏭/⏭, NEXT)

Installation

- Ⓐ CD player (SL-HD501V)
- Ⓑ Tuner (ST-HD501V)
- Ⓒ Cassette deck (RS-HD501V)
- Ⓓ Amplifier (SE-HD501V)
- Ⓔ Left speaker (SB-HD501V)
- Ⓕ Right speaker (SB-HD501V)

Caution

- Use the speakers only with the recommended system. Failure to do so may lead to damage to the amplifier and/or the speakers, and may result in the risk of fire. Consult a qualified service person if damage has occurred or if you experience a sudden change in performance.
- Do not attach these speakers to walls or ceilings.

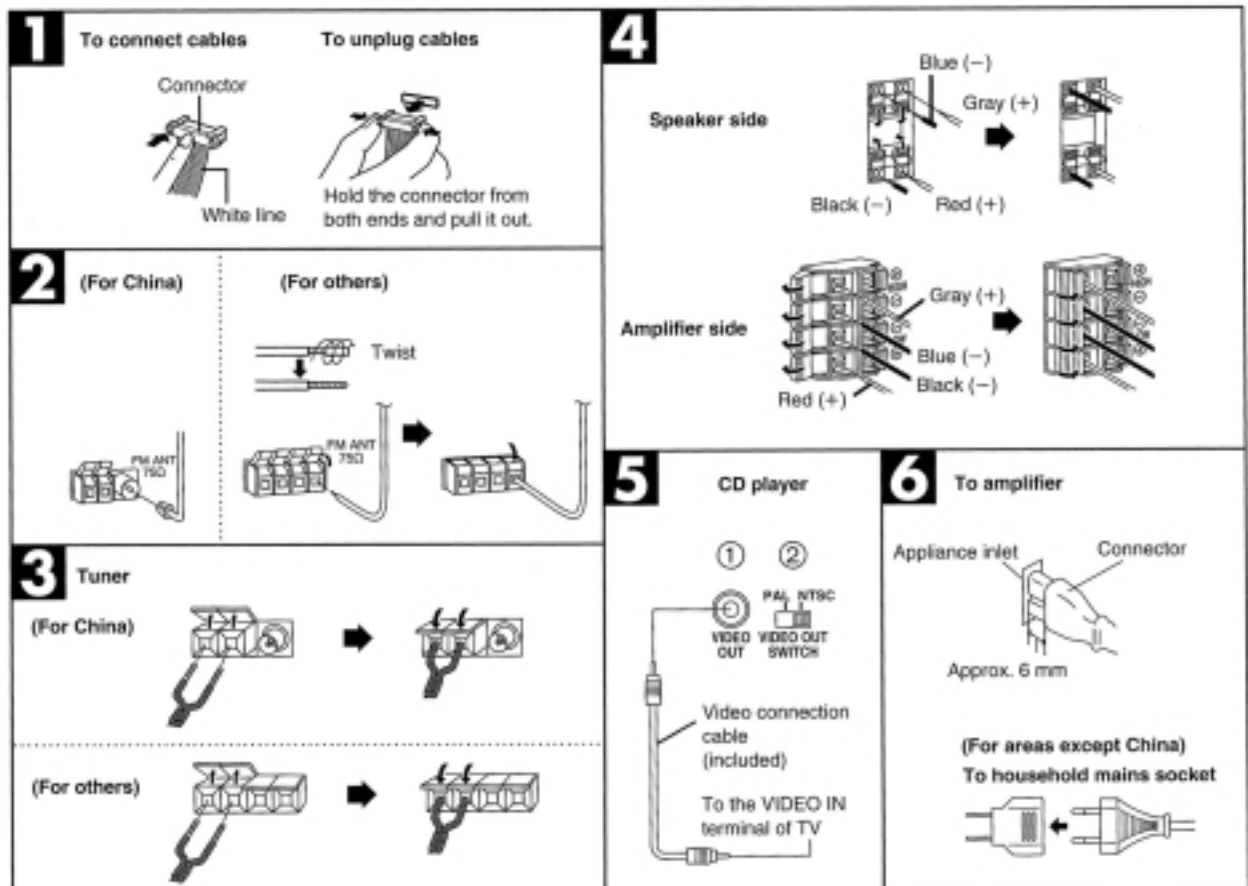
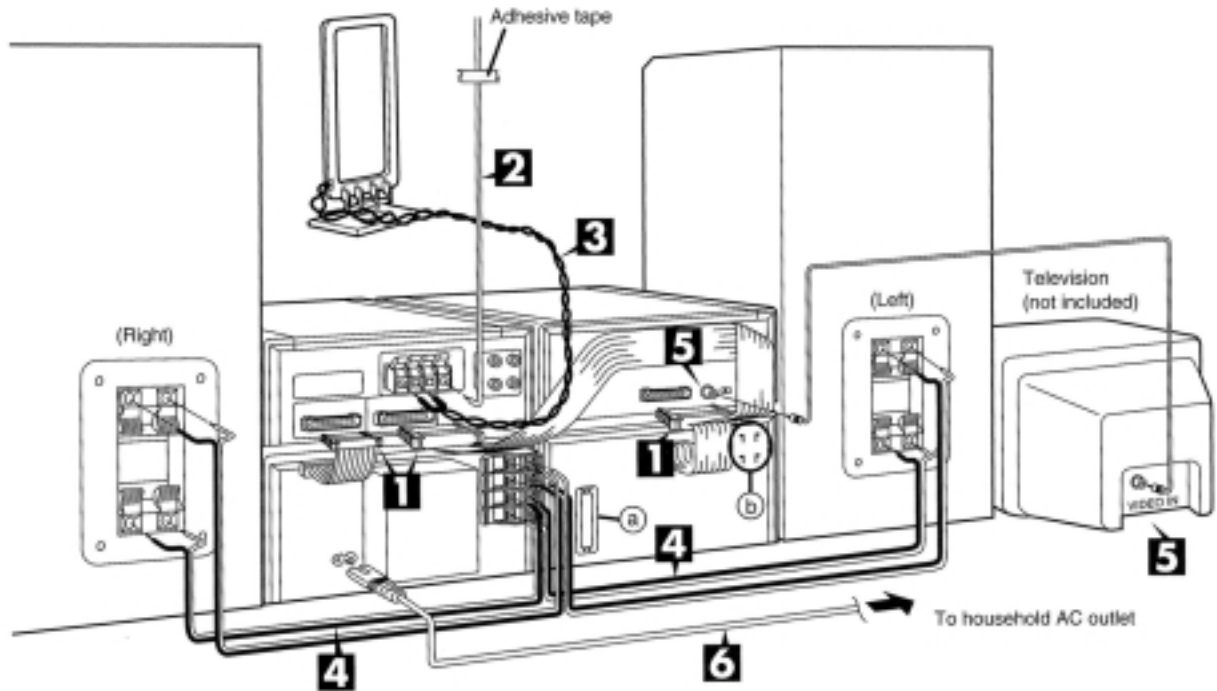
Note

Do not put the CD player on the amplifier. The CDs can become hot and damaged.

Connections

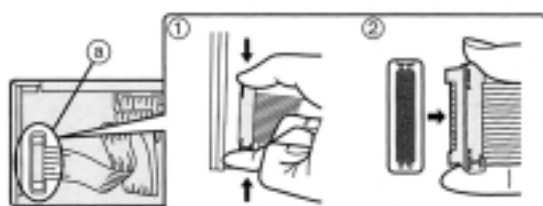
Connect the AC power supply cord after you have connected all other cables.

To prepare the AM loop antenna wire and speaker cords, twist the vinyl cover tip and pull off.



Before connection

Disconnect the flat cable on the cassette deck. ④

**1 Connect the flat cables.**

Connect the flat cables to the terminals on each unit.

Note

Do not connect or disconnect the flat cables while the unit is on.

After connection:

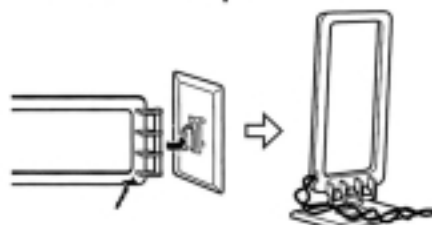
Keep cables as flat against the back of the unit as possible.

2 Connect the FM indoor antenna.

Tape the antenna to a wall or column where radio signals are received with the least amount of interference.

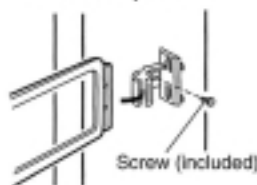
Note

When you cannot get good reception with this FM indoor antenna, we recommend you install an FM outdoor antenna (not included).

3 Connect the AM loop antenna.

You can also install the AM loop antenna on the rear of the cassette deck, wall or pillar.

In this case, be sure to use the antenna holder with the hole.

•To install on the cassette deck rear (D)**•To install on walls or pillars****Note**

Minimize noise by bundling the cord with tape to keep it away from the flat cables.

4 Connect the right (R) and left (L) speaker cables.

Connect the speaker cables to the terminal levers of the same color.

Use only the supplied speakers.

The combination of the main unit and front speakers provide the best sound. Using other speakers can damage the unit and sound quality will be negatively effected.

Note

- To prevent damage to circuitry, never short-circuit positive (+) and negative (–) speaker wires.
- Be sure to connect only positive (red or gray) wires to positive (+) terminals and negative (black or blue) wires to negative (–) terminals.

5 (For video CD playback)

① Connect the VIDEO OUT terminal on the CD player to the VIDEO IN terminal on the television with the video connection cable.

② Set the VIDEO OUT SWITCH according to the television set to be connected.

NTSC: When connecting a NTSC system TV.

PAL: When connecting a PAL system TV.

For details, refer to the operating instructions of the TV.

6 Connect the AC power supply cord.**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.

(For areas except China)

If the power plug will not fit your socket, use the power plug adaptor (included).

For your reference:

Information you enter into the unit's memory, except for the time, remains intact for up to two weeks after the AC power supply cord is disconnected.

4 Operation Checks and Component Replacement Procedures

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

● Contents

■ Checking Procedures for each P.C.B.

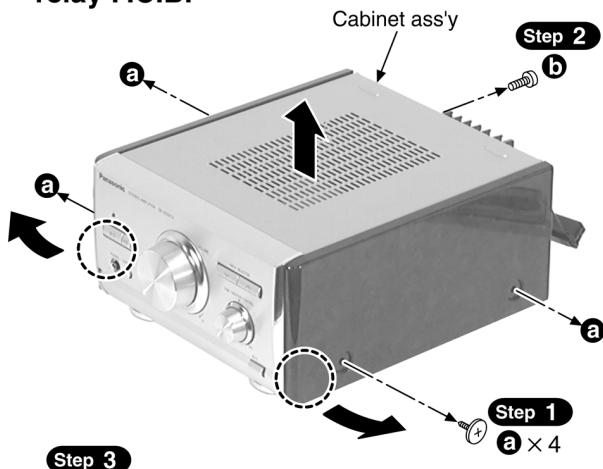
1. Checking for the AC IN P.C.B. and relay P.C.B..
2. Checking for the operation P.C.B..
3. Checking for the main P.C.B..

■ Main Component Replacement Procedures

1. Replacement for the power IC.

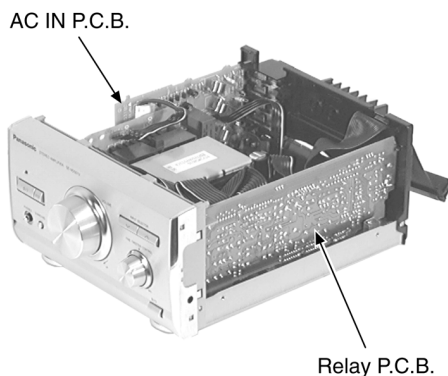
■ Checking Procedures for each P.C.B.

1. Checking for the AC IN P.C.B. and relay P.C.B.



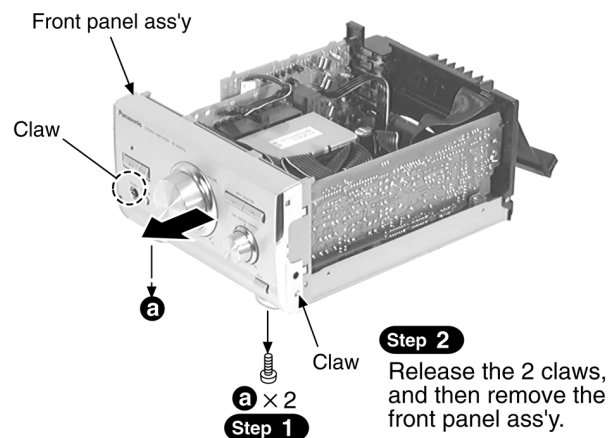
Step 3
Spreading the both front tails indicated with (○) of cabinet ass'y a small amount, lift up and remove the cabinet ass'y in the direction of arrow.

- Check the AC IN P.C.B. and relay P.C.B. as shown below.



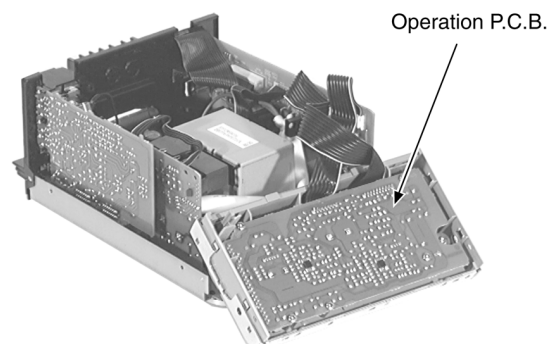
2. Checking for the operation P.C.B.

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



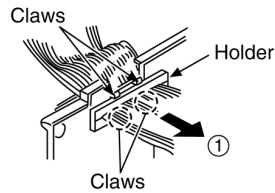
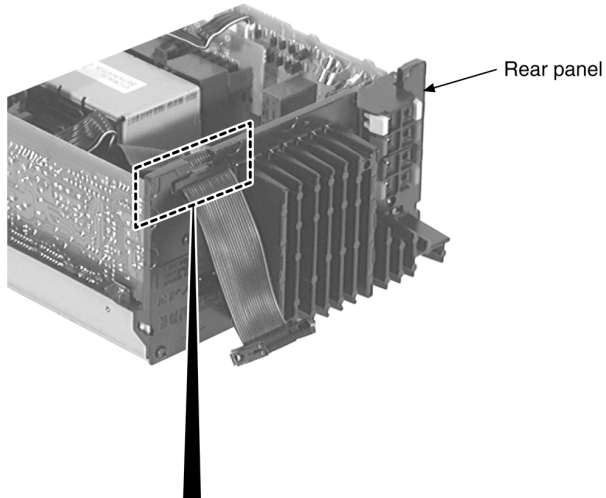
Step 2
Release the 2 claws, and then remove the front panel ass'y.

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



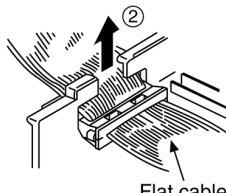
3. Checking for the main P.C.B.

- Follow the **Step 1** ~ **Step 3** of the item 1 in checking procedures for each P.C.B..
- Follow the **Step 1** , **Step 2** of the item 2 in checking procedures for each P.C.B..



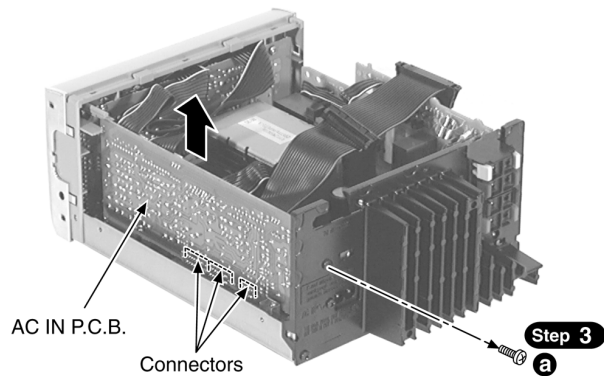
Step 1

Release the 4 claws, and then remove the holder.



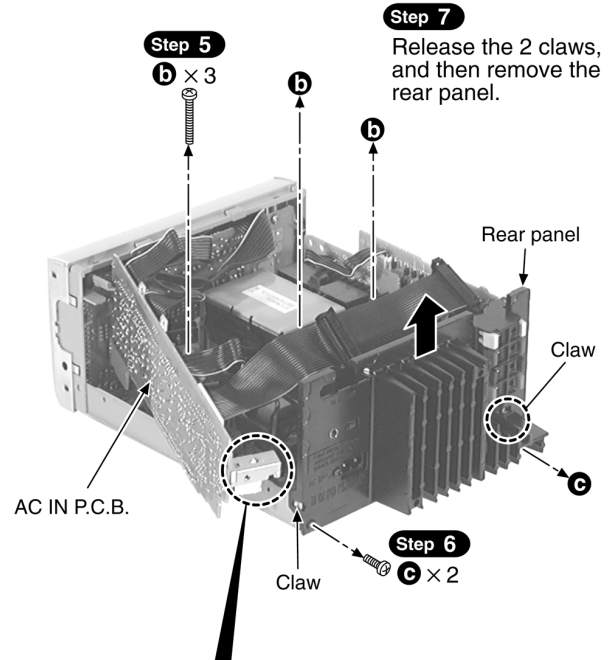
Step 2

Remove the flat cable from rear panel.

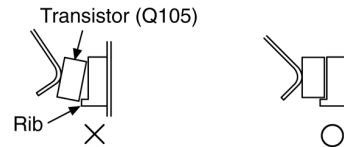


Step 4

Remove the AC IN P.C.B. upward with care to prevent damage to the connectors.



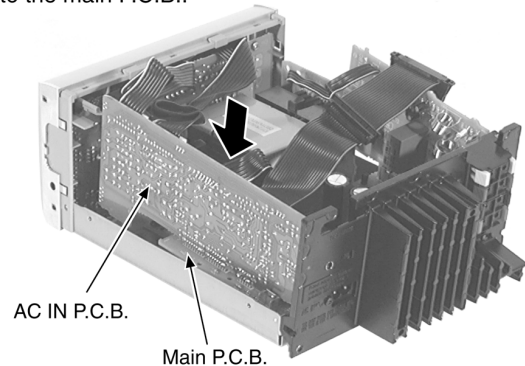
■ Notice for installation of AC IN P.C.B.



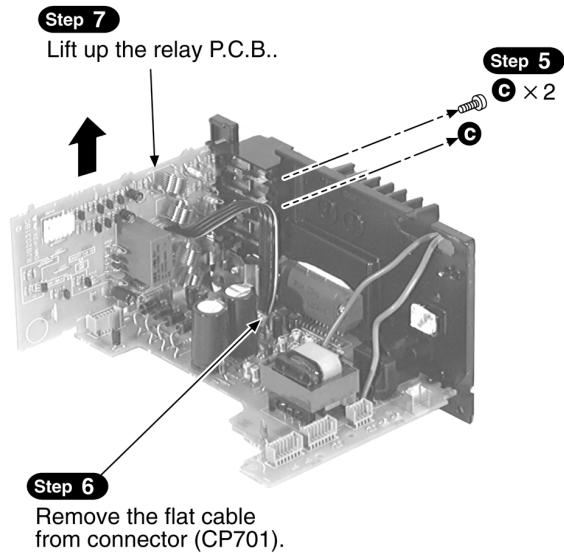
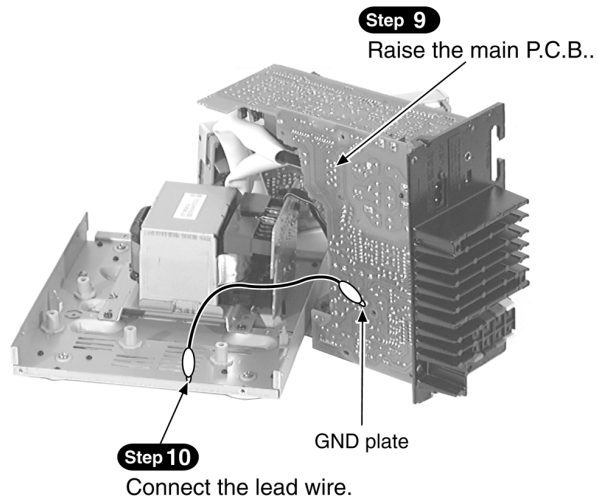
- Use care that the transistor (Q105) is not located on the rib as shown above.
- Apply the compound grease (No. RFXK0002 or equivalent material) on the back side of transistor (Q105).
- Use care to prevent applying the grease on the lead wire or other parts.

Step 8

Reinstall the AC IN P.C.B. to the main P.C.B..



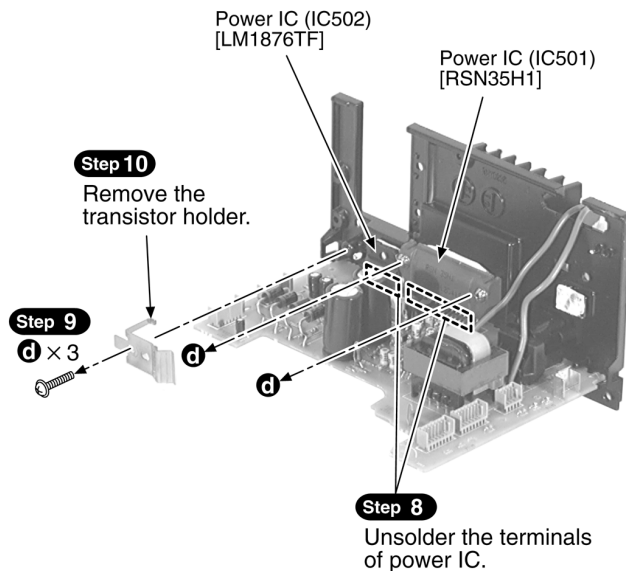
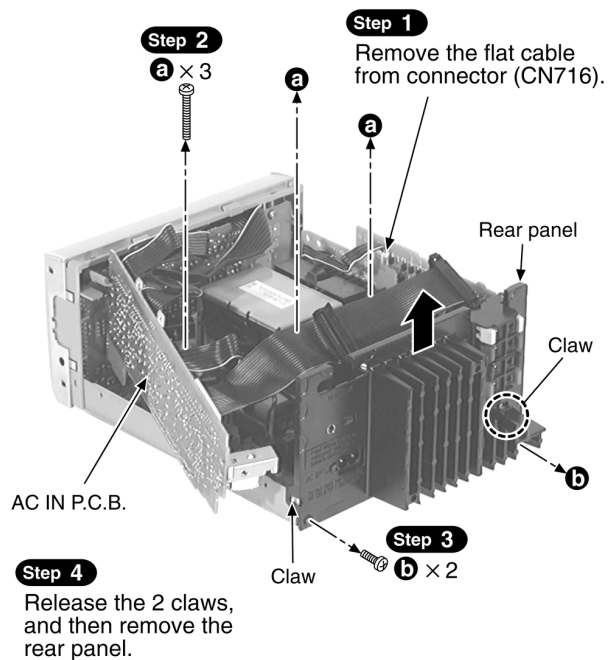
- Check the main P.C.B. as shown below.



■ Main Component Replacement Procedures

1. Replacement for the power IC

- Follow the **Step 1** ~ **Step 3** of the item 1 in checking procedures for each P.C.B..
- Follow the **Step 1**, **Step 2** of the item 2 in checking procedures for each P.C.B..
- Follow the **Step 1** ~ **Step 4** of the item 3 in checking procedures for each P.C.B..



NOTE

When mounting the power IC apply silicone compound (RFKX0002) to the rear side of power IC.

5 Power Source ON/OFF and Signal Check

To operate this unit SE-HD501V normally, it is necessary for connecting with the unit ST-HD501V.

When operating the unit SE-HD501V, be sure to connect the unit ST-HD501V with included connection cable.

1. Connect with the Tuner (ST-HD501V). (As shown in Fig. 1)
2. Connect the AC mains lead to Amplifier (SE-HD501V). (As shown in Fig. 1)
3. Connect the speakers to speaker terminal. (As shown in

Fig. 1)

4. Turn on the power of the Amplifier (SE-HD501V).
5. Press INPUT SELECTOR to select the external source (EXT) of the Amplifier (SE-HD501V).
6. Input a sound signal to external input terminal of Tuner (ST-HD501V), and confirm to be outputted from the speaker. (Both "High" and "Low".)

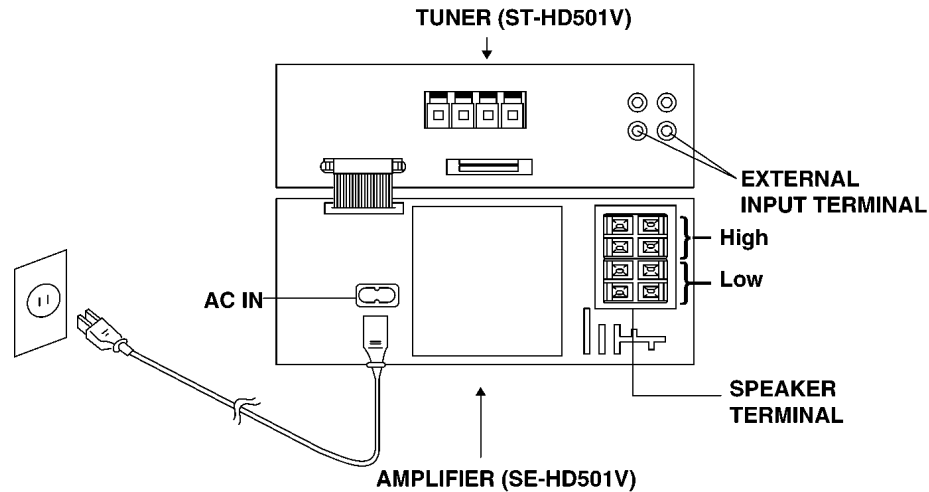


Fig. 1

6 Schematic Diagram Notes

6.1. Type Illustration of IC's, Transistors and Diodes

M5218AFPE3 	RSN35H1 	LM1876TF 	 2SA1309ATA 2SC3311ATA UN4115TA	2SB621AQRSTA
2SC3940AQSTA 	2SD2374PQAU 	2SD2144STA 	MA165TA 	 MA4051MTA MA4062MTA
 MA4075MTA MA4110MTA MA4120MTA MA4150MTA MA4160MTA MA4240MTA	MA719TA 	1N5402BF RL1N4003N02 	SLR-325VC 	

6.2. Schematic Diagram Notes

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

Notes:

- **S301:** Standby/on () switch in "OFF" position.
- **S302:** Eco mode (ECO) switch in "OFF" position.
- **S303:** Input source select control () switch.
- **S304:** Input source select control () switch .
- **S305:** Bass (BLFS) switch in "OFF" position.
- **S309:** Surround (SURROUND) switch.
- **VR301:** Volume control (VOLUME) V.R.
- **VR401:** Fine tweeter control (FINE TWEETR CONTROL) V.R.
- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

No mark: Power ON

- Important safety notice:

Components identified by  mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only 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.

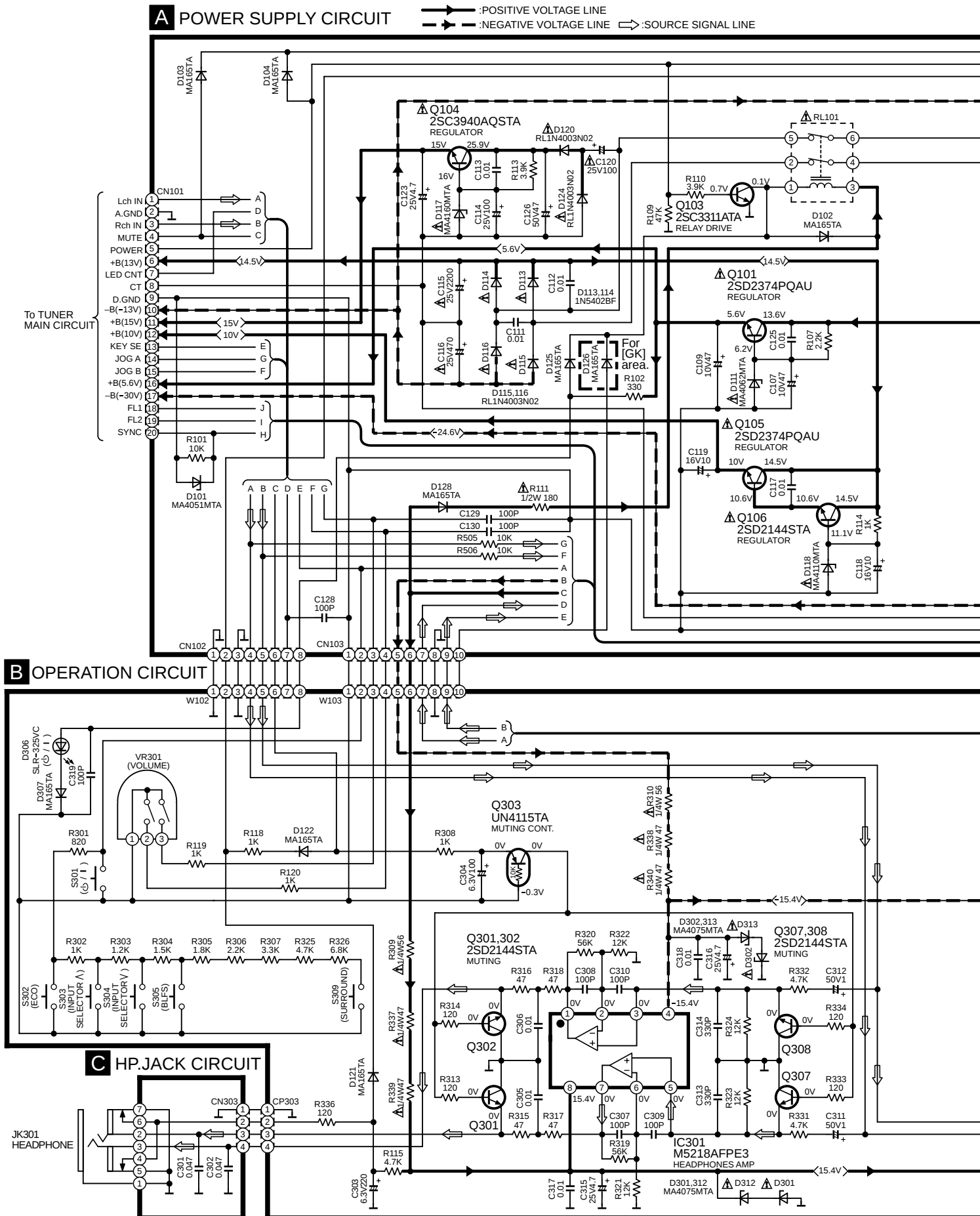
• Voltage and signal line

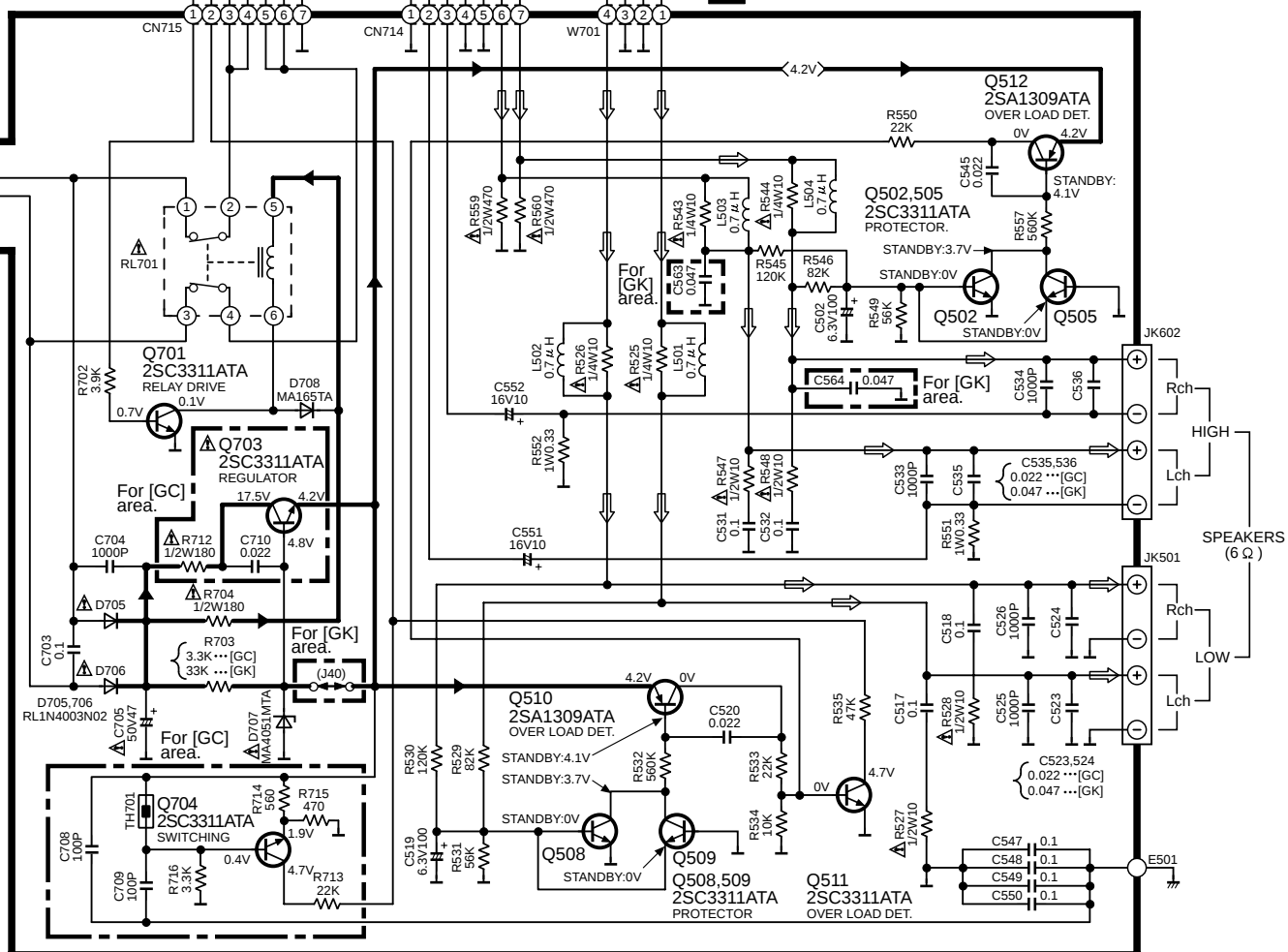
 : Positive voltage line

 : Negative voltage line

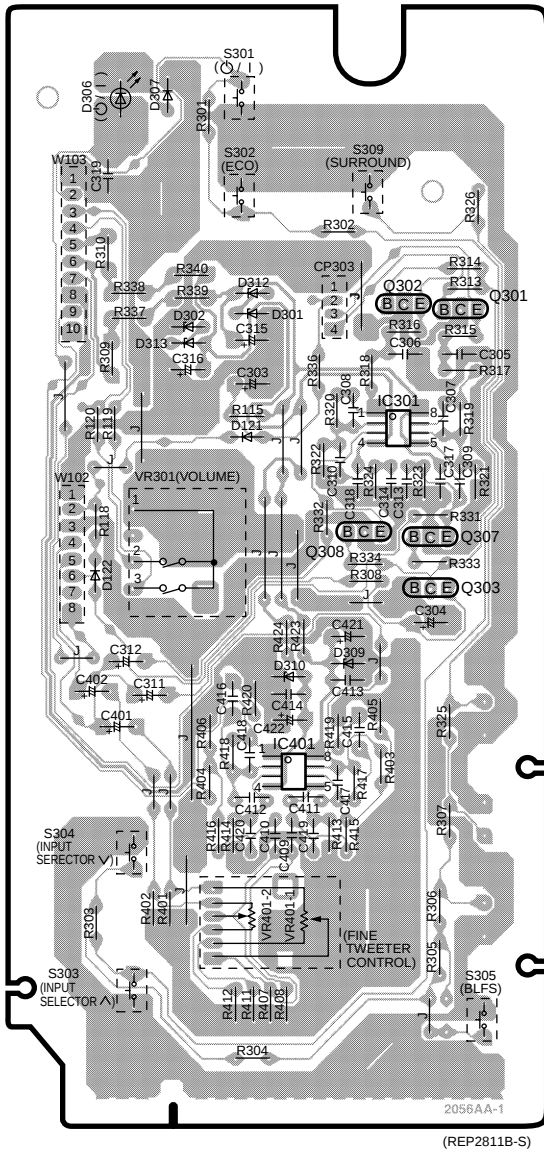
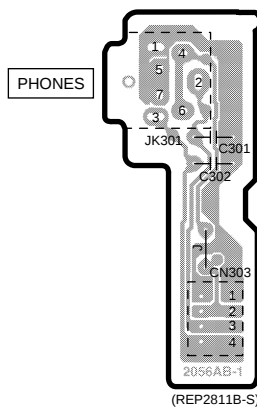
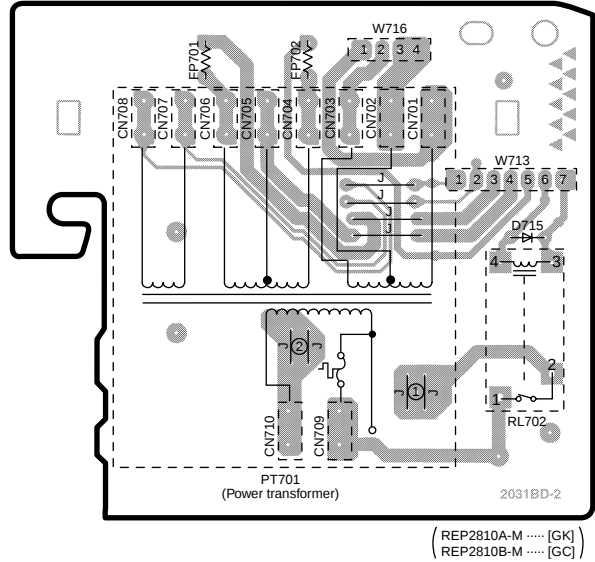
 : Source signal line

7 Schematic Diagram





14

B OPERATION P.C.B.**C** HP. JACK P.C.B.**E** POWER TRANSFORMER P.C.B.**E** ELECTRICAL PARTS LOCATION

Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.
B OPERATION P.C.B.							
IC301	3C	R118	3A	R334	3C	C307	3C
IC401	4B	R119	3A	R336	3B	C308	3B
Q301	2C	R120	3A	R337	2A	C309	3C
Q302	2C	R301	1B	R338	2A	C310	3B
Q303	4C	R302	2B	R339	2B	C311	4B
Q307	3C	R303	5A	R340	2B	C312	4A
Q308	3C	R304	6B	R401	5B	C313	3C
D121	3B	R305	5C	R402	5B	C314	3C
D122	4A	R306	5C	R403	4C	C315	3B
D301	2B	R307	5C	R404	4B	C316	3B
D302	2B	R308	4C	R405	4C	C317	3C
D306	1A	R309	3A	R406	4B	C318	3B
D307	1B	R310	2A	R407	6B	C319	2A
D309	4B	R313	2C	R408	6B	C401	4A
D310	4B	R314	2C	R411	6B	C402	4A
D312	2B	R315	2C	R412	6B	C409	5B
D313	3B	R316	2C	R413	5B	C410	5B
VR301	3B	R317	3C	R414	5B	C411	5B
VR401-1	5B	R318	3C	R415	5B	C412	5B
VR401-2	5B	R319	3C	R416	5B	C413	4B
S301	1B	R320	3B	R417	5B	C414	4B
S302	2B	R321	3C	R418	4B	C415	4C
S303	5A	R322	3B	R419	4B	C416	4B
S304	5A	R323	3C	R420	4B	C417	4B
S305	6C	R324	3C	R423	4B	C418	4B
S309	2C	R325	4C	R424	4B	C419	5B
CP303	2B	R326	2C	C303	3B	C420	5B
W102	3A	R331	3C	C304	4C	C421	4B
W103	2A	R332	3B	C305	3C	C422	4B
R115	3B	R333	3C	C306	3C		
G HEADPHONES JACK P.C.B.							
CN303	8B	JK301	7B	C301	7B	C302	7B
H POWER TRANSFORMER							
D715	2F	CN701	2E	CN706	2E	W713	2F
PT701	3E	CN702	2E	CN707	2D	W716	2E
FP701	2D	CN703	2E	CN708	2D		
FP702	2E	CN704	2E	CN709	3E		
RL702	3F	CN705	2E	CN710	3E		

A B C D E F

1

D MAIN P.C.B.

2

3

4

5

6

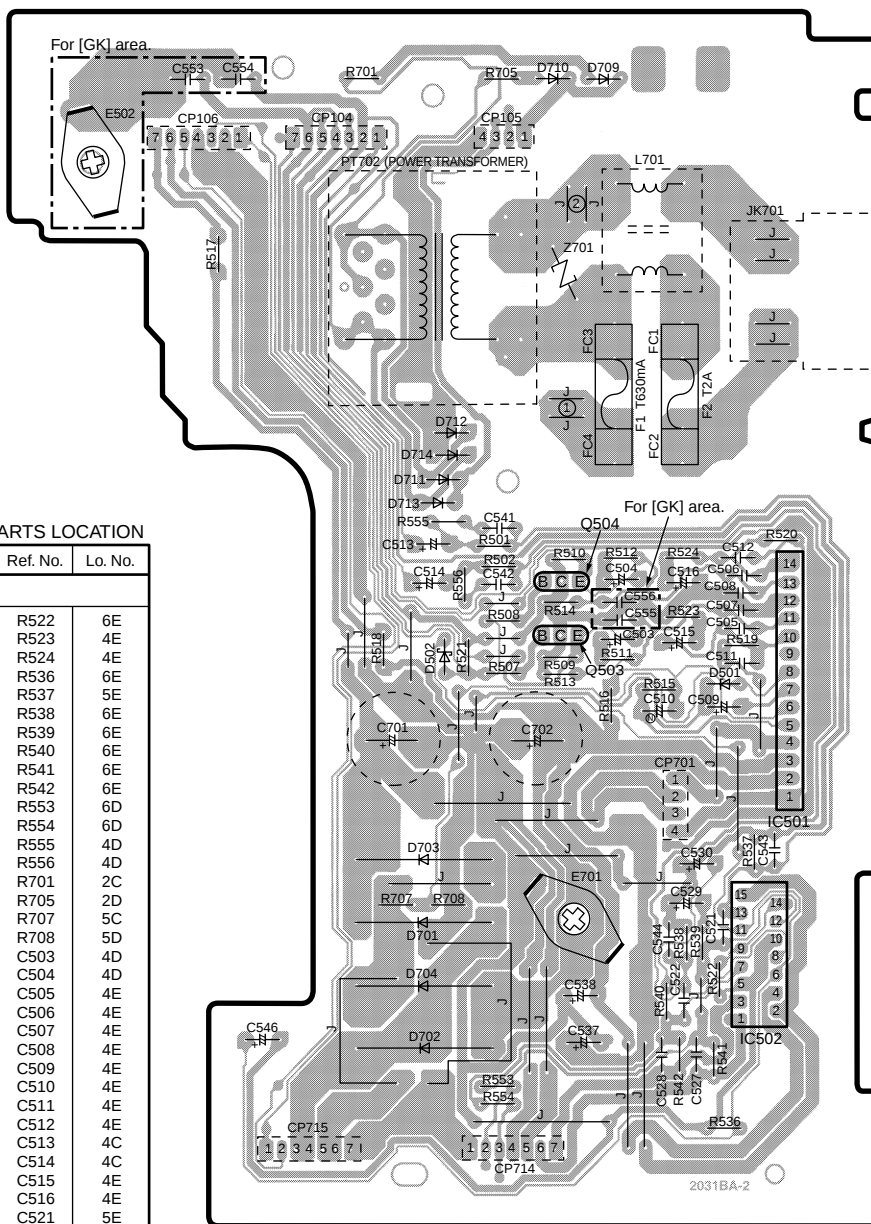
7

8

ELECTRICAL PARTS LOCATION

Ref. No.	Lo. No.	Ref. No.	Lo. No.
D MAIN P.C.B.			
IC501	4E	R522	6E
IC502	6E	R523	4E
Q503	4D	R524	4E
Q504	4D	R536	6E
D501	4E	R537	5E
D502	4D	R538	6E
D701	5C	R539	6E
D702	6C	R540	6E
D703	5C	R541	6E
D704	6C	R542	6E
D709	2D	R553	6D
D710	2D	R554	6D
D711	3D	R555	4D
D712	3D	R556	4D
D713	4D	R701	2C
D714	3D	R705	2D
L701	2D	R707	5C
Z701	2D	R708	5D
F1	3D	C503	4D
F2	3E	C504	4D
E502	2B	C505	4E
E701	5D	C506	4E
CP104	2C	C507	4E
CP105	2D	C508	4E
CP106	2B	C509	4E
CP701	5E	C510	4E
CP714	6D	C511	4E
CP715	6C	C512	4E
JK701	2E	C513	4C
PT702	2C	C514	4C
FC1	3E	C515	4E
FC2	3E	C516	4E
FC3	3D	C521	5E
FC4	3D	C522	6E
R501	4D	C527	6E
R502	4D	C528	6E
R507	4D	C529	5E
R508	4D	C530	5E
R509	4D	C537	6D
R510	4D	C538	6D
R511	4D	C541	4D
R512	4D	C542	4D
R513	4D	C543	5E
R514	4D	C544	6E
R515	4E	C546	6C
R516	4D	C553	2B
R517	2C	C554	2C
R518	4C	C555	4D
R519	4E	C556	4D
R520	4E	C701	5C
R521	4D	C702	5D

For [GK] area.



AC IN

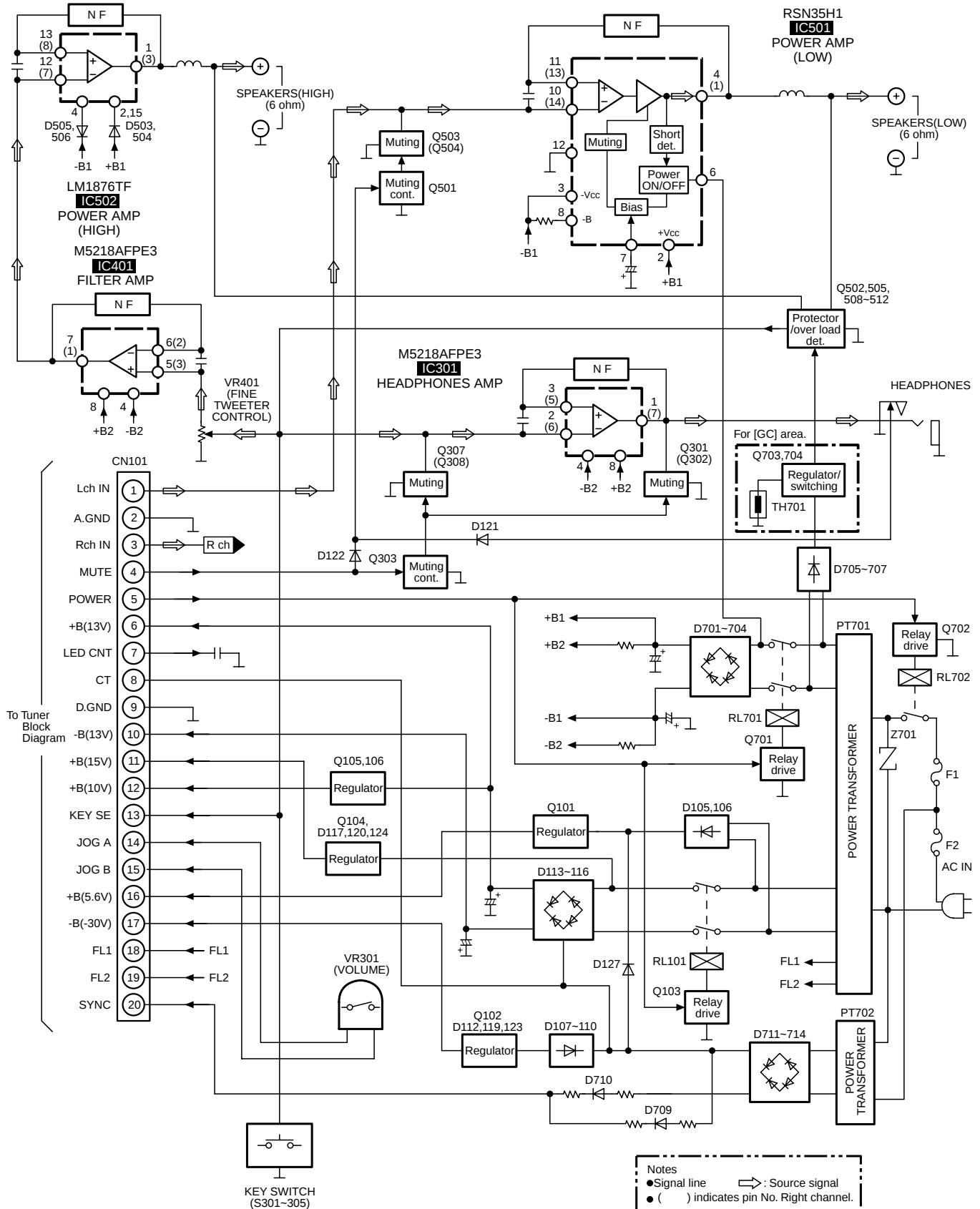
(220-240V 50/60Hz...[GC]
 220V 50Hz.....[GK])

For [GK] area.

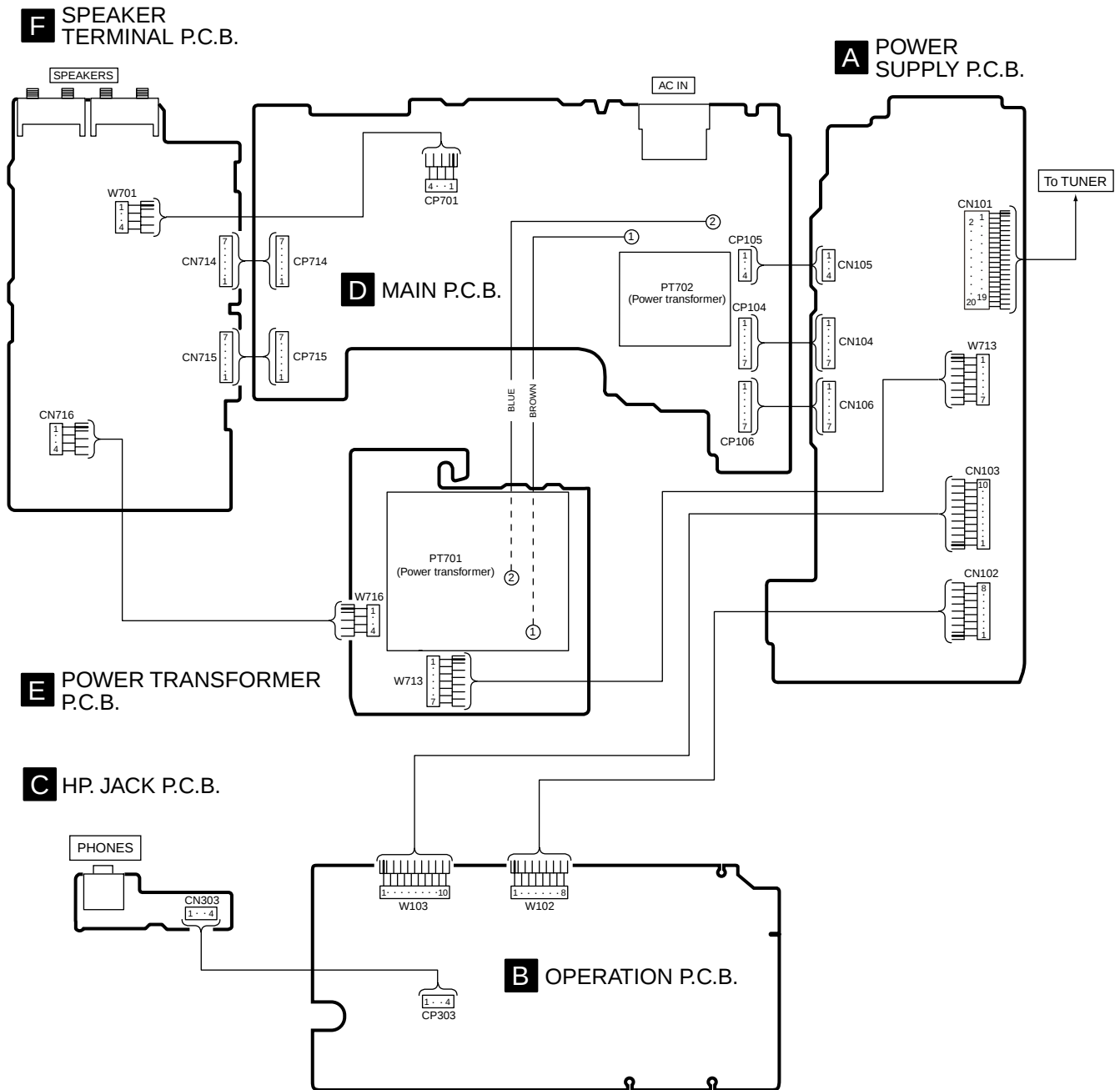
(REP2810A-M [GK]
 REP2810B-M [GC])

2031BA-2

9 Block Diagram



10 Wiring Connection Diagram



11 Replacement Parts List

Notes:

* Important safety notice:

Components identified by $\triangle$ mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.

* The parenthesized indications in the Remarks columns specify the areas.

Parts without these indications can be used for all areas.

* Remote Control Ass'y: Supply period for three years from terminal of production.

* Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads(pF), F=Farads (F)

* Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000K (OHM)

* "<IA>" mark in Remarks indicates languages of instruction manual.

[<IA>: English/Chinese]

*The marking (RTL) indicates that the 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 dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	RHD30073-K	SCREW	4	
2	RKM0397-S	CABINET	1	
3	XTBS3+10JFZ1	SCREW	1	
4	XTB3+8JFZ	SCREW	3	
5	RGH0154G-K	NAME PLATE	1	(GC)
5	RGH0154H-K2	NAME PLATE	1	(GK)
6	RGW0319-S	KNOB VOLUME	1	
7	RKA0076-N3	FOOT	4	
7-1	RKA0083-K	CUSHION	4	
8	XTB3+6G	SCREW	4	
9	RFKGEHD501VN	FRONT PANEL ASS'Y	1	
10	RGK1140-N	SIDE ORNAMENT(L)	1	
11	RGK1141-N	SIDE ORNAMENT(R)	1	
12	RGK0815A-N	VOLUME ORNAMENT	1	
13	RGU1750-S	BUTTON	1	
15	RHD26016	SCREW	1	
16	RHN90001	NUT	2	
17	XTBS26+8J	SCREW	5	
18	XTBS3+8JFZ1	SCREW	13	
19	XTB3+12FFZ	SCREW	1	
20	XTB3+20JFZ	SCREW	3	
21	XTW3+15T	SCREW	3	
22	REX0962	FLAT CABLE(20P)	1	
23	RGK1148-M	SIDE PANEL(L)	1	
24	RGK1149-M	SIDE PANEL(R)	1	
25	RGK1147-N	FINE TWEETER ORNAMENT	1	
26	RGW0316-S	KNOB FINE TWEETER	1	
29	RMZ0339	ZNR COVER	1	
A1	RAK-HDA09WH	REMOTE CONT. TRANSMITTER	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
A1-1	RKK0123-K	BATT.COVER(REMOTE CONT.)	1	
A2	REE0499	SPEAKER CORD	2	
A3	RJA0019-X	AC POWER SUPPLY CORD	1	(GC) $\triangle$
A3	RJA0055-K	AC POWER SUPPLY CORD	1	(GK) $\triangle$
A5	RQCB0169	SERVICENTER LIST	1	
A6	RQT4927-G	INSTRUCTION MANUAL	1	<IA>
A7	RSA0006	FM INDOOR ANTENNA	1	(GC)
A7	RSA0007	FM INDOOR ANTENNA	1	(GK)
A8	RSA0021	AM LOOP ANTENNA	1	
A10	SJP5213-2	AC PLUG ADAPTOR	1	(GC) $\triangle$
A11	REE0853	SPEAKER CORD	2	
A12	RJL1P019B15	PIN CORD(VIDEO)	1	
C101	RCE1EM471BV	25V 470U	1	$\triangle$
C102	ECA2AM470	100V 47U	1	$\triangle$
C103	ECA1EM101	25V 100U	1	$\triangle$
C104,05	ECA1HM470	50V 47U	2	$\triangle$
C106	ECBT1E103ZF	25V 0.01U	1	
C107	RCE1AKA470BG	10V 47U	1	
C108	RCE1VKA100BG	35V 10U	1	
C109	RCE1AKA470BG	10V 47U	1	
C110	ECEA1VKS470	35V 47U	1	
C111,12	ECKR1H103ZF5	50V 0.01U	2	
C113	ECBT1E103ZF	25V 0.01U	1	
C114	ECA1EM101	25V 100U	1	
C115	ECA1EM222	25V 2200U	1	$\triangle$
C116	RCE1EM471BV	25V 470U	1	$\triangle$
C117	ECBT1E103ZF	25V 0.01U	1	
C118,19	RCE1CKA100BG	16V 10U	2	
C120	ECA1EM101	25V 100U	1	$\triangle$
C121,22	ECBT1E103ZF	25V 0.01U	2	
C123,24	ECEA1EKS4R7	25V 4.7U	2	
C125	ECBT1E103ZF	25V 0.01U	1	
C126	ECA1HM470	50V 47U	1	
C127	ECEA1CKS101	16V 100U	1	$\triangle$
C128-30	ECBT1H101KB5	50V 100P	3	
C301,02	ECBT1H473ZF5	50V 0.047U	2	
C303	ECEA1AKS221	6.3V 220U	1	
C304	ECEA0JKS101	6.3V 100U	1	
C305,06	ECBT1E103ZF	25V 0.01U	2	
C307-10	ECBT1H101KB5	50V 100P	4	
C311,12	ECEA1HKS010	50V 1U	2	
C313,14	ECBT1H331KB5	50V 330P	2	
C315,16	ECEA1EKS4R7	25V 4.7U	2	
C317,18	ECBT1E103ZF	25V 0.01U	2	
C319	ECBT1H101KB5	50V 100P	1	
C401,02	ECEA1HKS010	50V 1U	2	
C409,10	ECBT1H561KB5	50V 560P	2	
C411,12	ECBT1H121KB5	50V 120P	2	
C413,14	ECBT1E103ZF	25V 0.01U	2	
C415,16	ECQV1H683JZ3	50V 0.068U	2	
C417,18	ECBT1H150JC5	50V 15P	2	
C419,20	ECBT1H561KB5	50V 560P	2	
C421,22	RCE1CKA100BG	16V 10U	2	
C501	ECEA1CKN4R7	16V 4.7U	1	
C502	ECEA0JKS101	6.3V 100U	1	
C503,04	RCE1HKA3R3BG	50V 3.3U	2	
C505	ECBT1C122KR5	16V 1200P	1	(GC)
C505	ECBT1C272KR5	16V 2700P	1	(GK)
C506	ECBT1C122KR5	16V 1200P	1	(GC)
C506	ECBT1C272KR5	16V 2700P	1	(GK)
C507	ECBT1C562KR5	16V 5600P	1	(GC)
C507	ECBT1H102KB5	50V 1000P	1	(GK)
C508	ECBT1C562KR5	16V 5600P	1	(GC)
C508	ECBT1H102KB5	50V 1000P	1	(GK)
C509	ECEA1HKA330B	50V 33U	1	
C510	ECEA1HSN2R2	50V 2.2U	1	
C511	ECBT1H150J5	50V 15P	1	(GC)
C511	ECBT1H330J5	50V 33P	1	(GK)

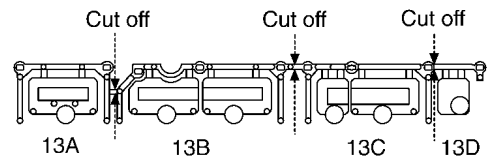
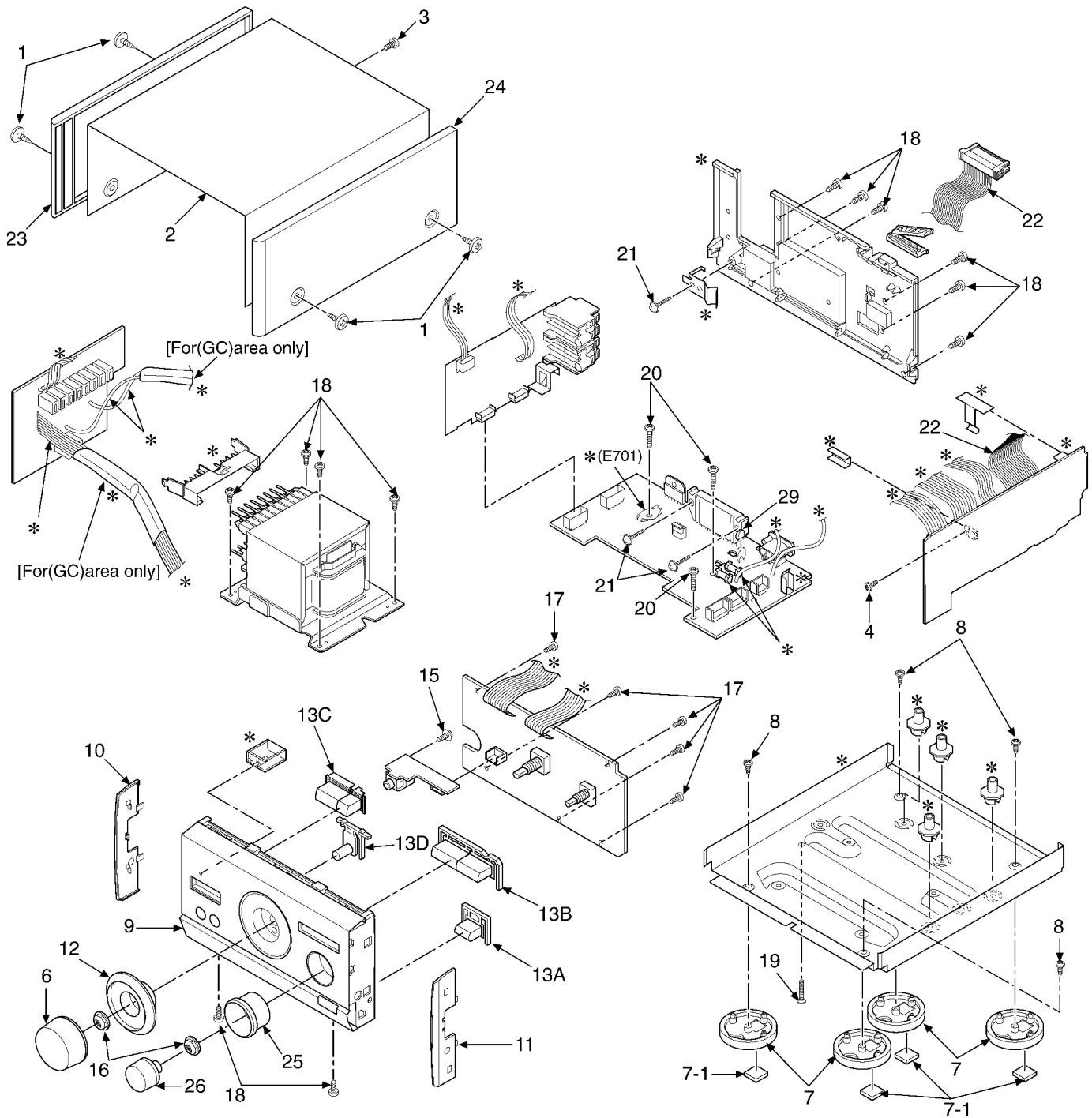
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C512	ECBT1H150J5	50V 15P	1	(GC)
C512	ECBT1H330J5	50V 33P	1	(GK)
C513, 14	RCE1CKA100BG	16V 10U	2	
C515, 16	RCE1HKA3R3BG	50V 3.3U	2	
C517, 18	ECBT1H104ZF5	50V 0.1U	2	
C519	ECEA0JKS101	6.3V 100U	1	
C520	ECBT1E223ZF	25V 0.022U	1	
C521, 22	ECBT1C122KR5	16V 1200P	2	
C523	ECBT1E223ZF	25V 0.022U	1	(GC)
C523	ECBT1H473ZF5	50V 0.047U	1	(GK)
C524	ECBT1E223ZF	25V 0.022U	1	(GC)
C524	ECBT1H473ZF5	50V 0.047U	1	(GK)
C525, 26	ECBT1H102KB5	50V 1000P	2	
C527, 28	ECBT1H300J5	50V 30P	2	
C529, 30	RCE1CKA100BG	16V 10U	2	
C531, 32	ECBT1H104ZF5	50V 0.1U	2	
C533, 34	ECBT1H102KB5	50V 1000P	2	
C535	ECBT1E223ZF	25V 0.022U	1	(GC)
C535	ECBT1H473ZF5	50V 0.047U	1	(GK)
C536	ECBT1E223ZF	25V 0.022U	1	(GC)
C536	ECBT1H473ZF5	50V 0.047U	1	(GK)
C537, 38	ECA1EM101	25V 100U	2	
C541, 42	ECBT1H331KB5	50V 330P	2	
C543, 44	ECBT1C222KR5	16V 2200P	2	
C545	ECBT1E223ZF	25V 0.022U	1	
C546	ECEA1HKS010	50V 1U	1	
C547-50	ECBT1H104ZF5	50V 0.1U	4	
C551, 52	RCE1CKA100BG	16V 10U	2	
C553, 54	ECBT1H473ZF5	50V 0.047U	2	(GK)
C555, 56	ECBT1C472KR5	16V 4700P	2	(GK)
C563, 64	ECBT1H473ZF5	50V 0.047U	2	(GK)
C701, 02	ECA1EM472	25V 4700U	2	△
C703	ECQE1104KF3	100V 0.1U	1	
C704	ECKR2H102ZF5	500V 1000P	1	
C705	ECA1HM470	50V 47U	1	△
C708, 09	ECBT1H101KB5	50V 100P	2	(GC)
C710	ECBT1E223ZF	25V 0.022U	1	(GC)
CN101	RJS2A5520-1	CONNECTOR(20P)	1	
CN102	RJS8T6ZA	CONNECTOR(8P)	1	
CN103	RJS10T6ZA	CONNECTOR(10P)	1	
CN104	RJU057W007	CONNECTOR(7P)	1	
CN105	RJU057W004	CONNECTOR(4P)	1	
CN106	RJU057W007	CONNECTOR(7P)	1	
CN303	RJU057W004	CONNECTOR(4P)	1	
CN701-10	RJS1A1101T1	CONNECTOR(1P)	10	
CN714, 15	RJU057W007	CONNECTOR(7P)	2	
CN716	RJS4T6ZA	CONNECTOR(4P)	1	
CP104	RJT057W007-1	CONNECTOR(7P)	1	
CP105	RJT057W004-1	CONNECTOR(4P)	1	
CP106	RJT057W007-1	CONNECTOR(7P)	1	
CP303	RJT057W004-1	CONNECTOR(4P)	1	
CP701	RJS1A6604	CONNECTOR(4P)	1	
CP714, 15	RJT057W007-1	CONNECTOR(7P)	2	
D101	MA4051M	DIODE	1	
D102-04	MA165	DIODE	3	
D105-10	RL1N4003N02	DIODE	6	△
D111	MA4062M	DIODE	1	△
D112	MA4240H	DIODE	1	△
D113, 14	1N5402BF	DIODE	2	△
D115, 16	RL1N4003N02	DIODE	2	△
D117	MA4160M	DIODE	1	△
D118	MA4110M	DIODE	1	△
D119, 20	RL1N4003N02	DIODE	2	△
D121, 22	MA165	DIODE	2	
D123, 24	RL1N4003N02	DIODE	2	△
D125	MA165	DIODE	1	
D126	MA165	DIODE	1	(GK)
D127	RL1N4003N02	DIODE	1	△
D128	MA165	DIODE	1	
D301, 02	MA4075M	DIODE	2	△

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D306	SLR-325VC	LED	1	
D307	MA165	DIODE	1	
D309, 10	MA4120M	DIODE	2	△
D312, 13	MA4075M	DIODE	2	△
D501	MA4150M	DIODE	1	△
D502	MA719TA	DIODE	1	
D701-04	1N5402BF	DIODE	4	△
D705, 06	RL1N4003N02	DIODE	2	△
D707	MA4051M	DIODE	1	△
D708-10	MA165	DIODE	3	
D711-14	RL1N4003N02	DIODE	4	△
D715	MA165	DIODE	1	
F1	XBA2C06TB0	FUSE T0.63A	1	△
F2	XBA2C20TB0	FUSE T2A	1	△
FP701, 02	RSFMB40KT-L	FUSE PROTECTOR	2	△
IC301	M5218AFPE3	IC	1	
IC401	M5218AFPE3	IC	1	
IC501	RSN35H1-P	IC	1	△
IC502	LM1876TF	IC	1	
JK301	RJJ37TN01-2C	JACK HEADPHONES	1	
JK501	RJR0054E	JACK SPEAKERS	1	
JK602	RJR0054H	JACK SPEAKERS	1	
JK701	SJS9236	JACK AC INLET	1	△
L501-04	SLQY07G-40	COIL CHOKE	4	
L701	RLQZ371	COIL	1	△
P1	RPF0139	PROTECTION BAG(F.B.)	1	
P2	RPG4394	PACKING CASE(AMPLI./DECK)	2	
P2	RPG4395	PACKING CASE(CD/TUNER)	2	
P3	RPN1186	CUSHION(AMPLIFIER/DECK)	2	
P3	RPN1187	CUSHION(CD/TUNER)	2	
P4	RP64319	PACKING CASE(SYSTEM)	1	(GC)
P4	RP64320	PACKING CASE(SYSTEM)	1	(GK)
P5	RPQ0952	PAD	1	
P6	SPP740-1	PROTECTION BAG	4	
PCB1	REP2810B-M	MAIN P.C.B.	1	(GC)(RTL)
PCB1	REP2810A-M	MAIN P.C.B.	1	(GK)(RTL)
PCB2	REP2811B-S	OPERATION P.C.B.	1	(RTL)
PT701	RTP2M5B016	POWER TRANSFORMER	1	(GC) △
PT701	RTP2M5E019	POWER TRANSFORMER	1	(GK) △
PT702	RTP1I3E001	POWER TRANSFORMER	1	△
Q101	2SD2374PQAU	TRANSISTOR	1	△
Q102	2SB621A-R	TRANSISTOR	1	△
Q103	2SC3311ATA	TRANSISTOR	1	
Q104	2SC3940AQSTA	TRANSISTOR	1	△
Q105	2SD2374PQAU	TRANSISTOR	1	△
Q106	2SC3327A	TRANSISTOR	1	△
Q301, 02	2SC3327A	TRANSISTOR	2	
Q303	UN4115	TRANSISTOR	1	
Q307, 08	2SC3327A	TRANSISTOR	2	
Q501	UN4115	TRANSISTOR	1	
Q502	2SC3311ATA	TRANSISTOR	1	
Q503, 04	2SC3327A	TRANSISTOR	2	
Q505	2SC3311ATA	TRANSISTOR	1	
Q508, 09	2SC3311ATA	TRANSISTOR	2	
Q510	2SA1309ATA	TRANSISTOR	1	
Q511	2SC3311ATA	TRANSISTOR	1	
Q512	2SA1309ATA	TRANSISTOR	1	
Q701, 02	2SC3311ATA	TRANSISTOR	2	(GC)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q703,04	2SC3311ATA	TRANSISTOR	2	(GC) △
R101	ERDS2FJ103	1/4W 10K	1	
R102	ERDS2FJ331	1/4W 330	1	
R104	ERDS2FJ101	1/4W 100	1	
R105,06	ERDS2FJ100	1/4W 10	2	△
R107	ERDS2FJ222	1/4W 2.2K	1	
R108	ERDS2FJ472	1/4W 4.7K	1	
R109	ERDS2FJ473	1/4W 47K	1	
R110	ERDS2FJ392	1/4W 3.9K	1	
R111	ERDS1FJ181	1/2W 180	1	△
R113	ERDS2FJ392	1/4W 3.9K	1	
R114	ERDS2FJ102	1/4W 1K	1	
R115	ERDS2FJ472	1/4W 4.7K	1	
R116	ERD25FVJ560T	1/4W 56	1	△
R117	ERD2FCG100	1/4W 10	1	△
R118-20	ERDS2FJ102	1/4W 1K	3	
R301	ERDS2FJ821	1/4W 820	1	
R302	ERDS2FJ102	1/4W 1K	1	
R303	ERDS2FJ122	1/4W 1.2K	1	
R304	ERDS2FJ152	1/4W 1.5K	1	
R305	ERDS2FJ182	1/4W 1.8K	1	
R306	ERDS2FJ222	1/4W 2.2K	1	
R307	ERDS2FJ332	1/4W 3.3K	1	
R308	ERDS2FJ102	1/4W 1K	1	
R309,10	ERD25FVJ560T	1/4W 56	2	△
R313,14	ERDS2FJ121	1/4W 120	2	
R315-18	ERDS2FJ470	1/4W 47	4	
R319,20	ERDS2FJ563	1/4W 56K	2	
R321-24	ERDS2FJ123	1/4W 12K	4	
R325	ERDS2FJ472	1/4W 4.7K	1	
R326	ERDS2FJ682	1/4W 6.8K	1	
R331,32	ERDS2FJ472	1/4W 4.7K	2	
R333,34	ERDS2FJ121	1/4W 120	2	
R336	ERDS2FJ121	1/4W 120	1	
R337-40	ERDS2FJ470	1/4W 47	4	△
R401,02	ERDS2FJ104	1/4W 100K	2	
R403,04	ERDS2FJ223	1/4W 22K	2	
R405,06	ERDS2FJ182	1/4W 1.8K	2	
R407,08	ERDS2FJ473	1/4W 47K	2	
R411,12	ERDS2FJ223	1/4W 22K	2	
R413-16	ERDS2FJ104	1/4W 100K	4	
R417,18	ERDS2FJ333	1/4W 33K	2	
R419,20	ERDS2FJ152	1/4W 1.5K	2	
R423,24	ERDS2FJ331	1/4W 330	2	
R501,02	ERDS2FJ223	1/4W 22K	2	
R504	ERDS2FJ105	1/4W 1M	1	
R505-08	ERDS2FJ103	1/4W 10K	4	
R509,10	ERDS2FJ104	1/4W 100K	2	
R511,12	ERDS2FJ103	1/4W 10K	2	
R513,14	ERDS2FJ563	1/4W 56K	2	
R515	ERDS2FJ334	1/4W 330K	1	
R516	ERDS1FJ331	1/2W 330	1	△
R517,18	ERDS2FJ2R2	1/4W 2.2	2	△
R519,20	ERDS2FJ563	1/4W 56K	2	
R521	ERDS2FJ684	1/4W 680K	1	
R522	ERDS2FJ473	1/4W 47K	1	
R523,24	ERDS2FJ272	1/4W 2.7K	2	
R525,26	ERDS2FJ100	1/4W 10	2	△
R527,28	ERDS1FJ100	1/2W 10	2	△
R529	ERDS2FJ823	1/4W 82K	1	
R530	ERDS2FJ124	1/4W 120K	1	
R531	ERDS2FJ563	1/4W 56K	1	
R532	ERDS2FJ564	1/4W 560K	1	
R533	ERDS2FJ223	1/4W 22K	1	
R534	ERDS2FJ103	1/4W 10K	1	
R535,36	ERDS2FJ473	1/4W 47K	2	
R537	ERDS2FJ122	1/4W 1.2K	1	(GC)
R537	ERDS2FJ152	1/4W 1.5K	1	(GK)
R538	ERDS2FJ122	1/4W 1.2K	1	(GC)
R538	ERDS2FJ152	1/4W 1.5K	1	(GK)
R539,40	ERDS2FJ103	1/4W 10K	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R541,42	ERDS2FJ104	1/4W 100K	2	
R543,44	ERDS2FJ100	1/4W 10	2	△
R545	ERDS2FJ124	1/4W 120K	1	
R546	ERDS2FJ823	1/4W 82K	1	
R547,48	ERDS1FJ100	1/2W 10	2	△
R549	ERDS2FJ563	1/4W 56K	1	
R550	ERDS2FJ223	1/4W 22K	1	
R551,52	ERX1SJR33	1W 0.33	2	
R553	ERDS2FJ102	1/4W 1K	1	(GC)
R553	ERDS2FJ103	1/4W 10K	1	(GK)
R554	ERDS2FJ102	1/4W 1K	1	(GC)
R554,55	ERDS2FJ103	1/4W 10K	2	(GK)
R555	ERDS2FJ223	1/4W 22K	1	(GC)
R556	ERDS2FJ103	1/4W 10K	1	(GK)
R556	ERDS2FJ223	1/4W 22K	1	(GC)
R557	ERDS2FJ564	1/4W 560K	1	
R559,60	ERDS1FJ471	1/2W 470	2	△
R701	ERDS2FJ102	1/4W 1K	1	
R702	ERDS2FJ392	1/4W 3.9K	1	
R703	ERDS2FJ332	1/4W 3.3K	1	(GC)
R703	ERDS2FJ333	1/4W 33K	1	(GK)
R704	ERDS1FJ181	1/2W 180	1	△
R705	ERDS2FJ102	1/4W 1K	1	
R706	ERDS2FJ392	1/4W 3.9K	1	
R707	ERDS2FJ684	1/4W 680K	1	
R708	ERDS2FJ104	1/4W 100K	1	
R709	ERDS2FJ473	1/4W 47K	1	
R712	ERDS1FJ181	1/2W 180	1	(GC) △
R713	ERDS2FJ223	1/4W 22K	1	(GC)
R714	ERDS2FJ561	1/4W 560	1	(GC)
R715	ERDS2FJ471	1/4W 470	1	(GC)
R716	ERDS2FJ332	1/4W 3.3K	1	(GC)
RL101	RSY0017M-0	RELAY	1	△
RL701	RSY0017M-0	RELAY	1	△
RL702	RSY0040M-0	RELAY	1	△
S301-05	EVQ21405R	SW PUSH	5	
S309	EVQ21405R	SW SURROUND	1	
TH701	ERT62KIJ333T	THERMISTER	1	(GC)
VR301	EVQVBXFK124B	V.R. VOLUME	1	
VR401	EVJY91F04B54	V.R. FINE TWEETER CONT.	1	
Z701	ERZV10V511CS	COMPONENT COMBINATION	1	△

12 Cabinet Parts Location



13 Packaging

