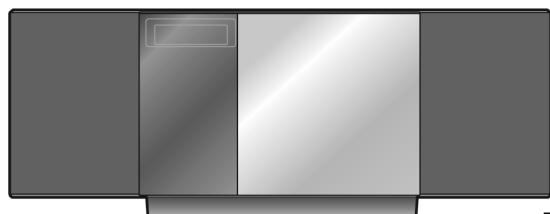


Service Manual

Compact Stereo System

Model No. **SC-HC3EB**
SC-HC3EG
SC-HC3EF



SC HC3



Remote
Control
Transmitter

Product Color: (S)...Silver Type

⚠ 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.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ⚠ in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

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1 Safety Precautions

1.1. General Guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, carry out the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. measure the resistance value, with an ohmmeter between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between $1M\Omega$ and $5.2M\Omega$. When the exposed metal does not have a return path to the chassis, the reading must be ∞

1.1.2. Leakage Current Hot Check

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a $1.5k\Omega$, 10 watts resistor, in parallel with a $0.15\mu F$ capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

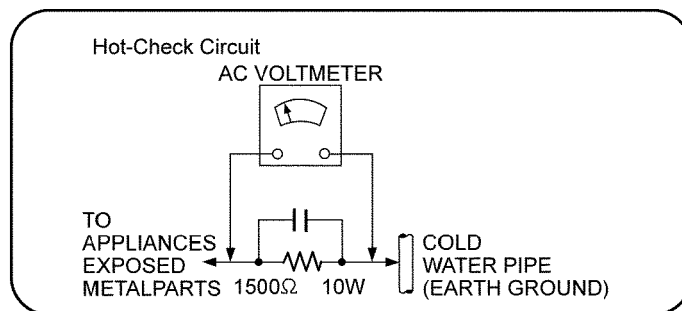


Figure. 1

1.2. Caution for AC Cord

(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 OFF 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

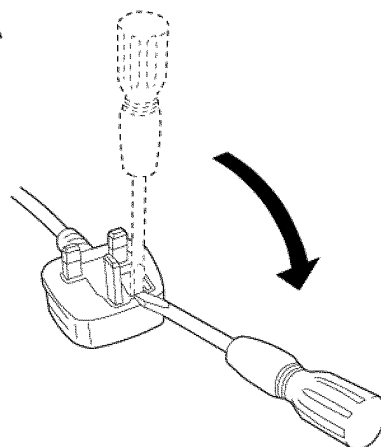
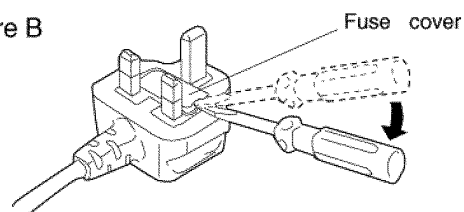


Figure B



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

Figure A

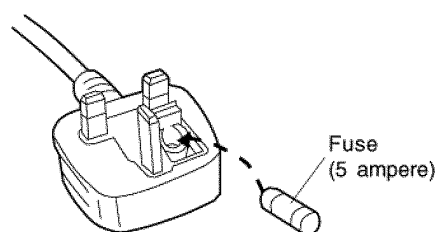
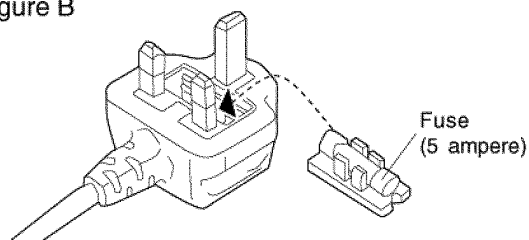


Figure B



1.3. Before Repair and Adjustment

Disconnect AC power, discharge unit AC Capacitors as such C702, C710, C725, C727, C728 and C730 through a 10W, 1W resistor to ground.

Caution : DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices. After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

- Current consumption at AC 220-240V, at 50Hz in NO SIGNAL mode (at volume min in FM Tuner mode) should be ~250 mA.

1.4. Caution For Fuse Replacement

CAUTION:

Replace with the same type fuse:
(Manufacturer: Hollyland, Type: 50T, F751, T1.6AL 250V)

1.5. Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

- No sound is heard when the power is turned 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 the amplifier are used.

If this occurs, follow the procedure outlines below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

Note:

When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

1.6. Safety Part Information

Safety Parts List:

There are special components used in this equipment which are important for safety.

These parts are marked by Δ in the Schematic Diagrams, Exploded View & Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

Table 1

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
Δ	6	REXX0746-1	RED WIRE (AC INLET-SMPS)	
Δ	7	REXX0747-1	BLACK WIRE (AC INLET-SMPS)	
Δ	9	REXX0752-1	BLUE WIRE (AC INLET-SMPS)	
Δ	30	RGNX0850	NAME PLATE LABEL	
Δ	101	REXX0771	WHITE WIRE (JW708)	
Δ	102	REXX0772	BROWN WIRE (JW707)	
Δ	300	RAE0165T-V	TRAVERSE ASS'Y	(RTL)
Δ	A2	K2CQ2CA00007	AC CORD	EF/EG
Δ	A2	K2CZ3YY00005	AC CORD	EB
Δ	A3	RQTX0252-2D	O/I BOOK (Ge/lt/Fr/Sp)	EF/EG
Δ	A3	RQTX0253-2H	O/I BOOK (Du/Da/Sw)	EG
Δ	A3	RQTX0261-2B	O/I BOOK (En)	EB
Δ	L702	G0B333E00002	LINE FILTER	
Δ	L751	ELF15N035AN	LINE FILTER	
Δ	T581	G4D1A0000117	MAIN TRANSFORMER	
Δ	T701	G4DYA0000155	SUB TRANSFORMER	
Δ	T751	ETS19AB221AG	SWITCHING TRANSFORMER	
Δ	Z752	ERZV10V511CS	ZNR	
Δ	PC701	B3PBA0000454	PHOTO COUPLER	
Δ	PC751	B3PBA0000454	PHOTO COUPLER	
Δ	RY701	K6B1AEA00017	RELAY	
Δ	F751	K5D162BK0005	FUSE	
Δ	FP581	K5H7512A0010	FUSE PROTECTOR	
Δ	TH701	D4CAC8R00002	THERMISTOR	
Δ	P751	K2AA2B000017	AC INLET	
Δ	C710	F1BAF471A013	470pF	
Δ	C727	F1BAF471A013	470pF	
Δ	C728	F1BAF471A013	470pF	
Δ	C730	F1BAF1020020	1000pF	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
⚠	PCB15	REPX0755B	AC IN P.C.B.	(RTL)
⚠	PCB5	REPX0755B	SMPS P.C.B.	(RTL)

2 Warning

2.1. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor “chip” components. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminium foil, to prevent electrostatic charge build up or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder remover device. Some solder removal devices not classified as “anti-static (ESD protected)” can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminium foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution :

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

2.2. Precaution of Laser Diode

CAUTION!

THIS PRODUCT UTILIZES A LASER.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

Caution:

This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pickup lens.

Wavelength: 795 nm (CD)

Maximum output radiation power from pickup: 100 μ W/VDE

Laser radiation from the pickup unit is safety level, but be sure the followings:

1. Do not disassemble the pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

ACHTUNG :

Dieses Produkt enthält eine Lasereinheit. Im eingeschalteten Zustand wird unsichtbare Laserstrahlung von der Lasereinheit abgestrahlt.

Wellenlänge : 795nm (CD)

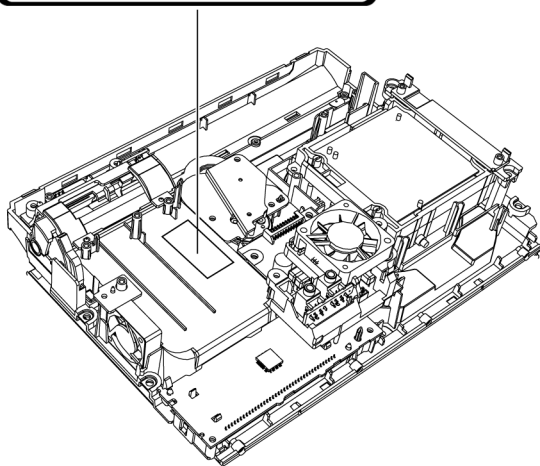
Maximale Strahlungsleistung der Lasereinheit : 100 μ W/VDE

Die Strahlung an der Lasereinheit ist ungefährlich, wenn folgende Punkte beachtet werden:

1. Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Laserdiode gefährlich ist.
2. Den werkseitig justierten Einstellregler der Lasereinheit nicht verstellen.
3. Nicht mit optischen Instrumenten in die Fokussierlinse blicken.
4. Nicht über längere Zeit in die Fokussierlinse blicken.

CAUTION	- CLASS 1M INVISIBLE LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC80085-1-430/Class 1M
WARNING	- KLASS 1M OSYNLIIG LASERSTRÄLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRÄKTA EJ STRÄLEN DIREKT GENOM OPTISKT INSTRUMENT.
FORSIGTIG	- USYNLIG LASERSTRÄLNING KLASSE 1M, NÄR LÅGET ER ÅBENT. UNDGÅ AT SE LIGE PÅ MED OPTISKE INSTRUMENTER.
VARO!	- AVATTAESSA OLET ALTIIN LUOKAN 1M NÄKYVÄTÖNTÄ LASERISÄTELYÄ ÄLÄ KATSO OPTISELLA LAITTEELLA SUORAAN SÄTEESEEN.
VORSICHT	- UNSICHTBARE LASERSTRÄHLUNG KLASSE 1M, WENN ABBECKUNG GEÖFFNET. NICHT DIREKT MIT OPTISCHEN INSTRUMENTEN BETRACHTEN.
ATTENTION	- RAYONNEMENT LASER INVISIBLE, CLASSE 1M, EN CAS D'OUVERTURE. NE PAS REGARDER DIRECTEMENT À L'AIDE D'INSTRUMENTS D'OPTIQUE.
注意	- ここを開くと不可視レーザー光が出ます。 ビームを見たり、触れたりしないでください。
注意	- 打开时有不可见激光辐射，避免光束照射。 GB7241.1-2001/GB 类 RQJXS0071

Inside of product



Back of product



2.3. Service caution based on Legal restrictions

2.3.1. General description about Lead Free Solder (PbF)

The lead free solder has been used in the mounting process of all electrical components on the printed circuit boards used for this equipment in considering the globally environmental conservation.

The normal solder is the alloy of tin (Sn) and lead (Pb). On the other hand, the lead free solder is the alloy mainly consists of tin (Sn), silver (Ag) and Copper (Cu), and the melting point of the lead free solder is higher approx.30 degrees C (86°F) more than that of the normal solder.

Definition of PCB Lead Free Solder being used

The letter of "PbF" is printed either foil side or components side on the PCB using the lead free solder. (See right figure)	PbF
---	-----

Service caution for repair work using Lead Free Solder (PbF)

- The lead free solder has to be used when repairing the equipment for which the lead free solder is used.
(Definition: The letter of "PbF" is printed on the PCB using the lead free solder.)
- To put lead free solder, it should be well molten and mixed with the original lead free solder.
- Remove the remaining lead free solder on the PCB cleanly for soldering of the new IC.
- Since the melting point of the lead free solder is higher than that of the normal lead solder, it takes the longer time to melt the lead free solder.
- Use the soldering iron (more than 70W) equipped with the temperature control after setting the temperature at 350±30 degrees C (662±86°F).

Recommended Lead Free Solder (Service Parts Route.)

- The following 3 types of lead free solder are available through the service parts route.
RFKZ03D01K----- (0.3mm 100g Reel)
RFKZ06D01K----- (0.6mm 100g Reel)
RFKZ10D01K----- (1.0mm 100g Reel)

Note

- * Ingredient: Tin (Sn), 96.5%, Silver (Ag) 3.0%, Copper (Cu) 0.5%, Cobalt (Co) / Germanium (Ge) 0.1 to 0.3%

3 Service Navigation

3.1. Service Information

This service manual contains technical information which will allow service personnel's to understand and service this model. Please place orders using the parts list and not the drawing reference numbers.

If the circuit is changed or modified, this information will be followed by supplement service manual to be filed with original service manual.

1. Micro-processor:

- Micro-processor IC, (IC801) is supplied as assembled part (RFKWMAHC3-S).

4 Specifications

■ Amplifier Section

RMS Output Power Stereo Mode

Front Ch (both ch driven) 20 W per channel (6 Ω), 1 kHz, 10 % THD

Phone jack

Terminal Stereo, 3.5 mm jack

Output level (CD, 1 kHz, -20 dB) max. 1.18 mW +1.18 mW, 32 Ω

Aux (Rear)

Sensitivity

Normal level 630 mV, 12.4 k Ω

High level 630 mV, 12.4 k Ω

Terminal Stereo, 3.5 mm jack

■ Tuner Section

Preset memory FM 30 stations

AM 15 stations

Frequency Modulation (FM)

Frequency range 87.50 MHz to 108.00 MHz
(50 kHz step)

Antenna terminals 75 Ω (unbalanced)

Amplitude Modulation (AM)

Frequency range 522 kHz to 1629 kHz (9 kHz step)

■ Disc Section

Disc played [8 cm or 12 cm]

(1) CD-Audio (CD-DA)

(2) CD-R/RW (CD-DA, MP3)

(3) MP3

* MPEG-1 Layer 3, MPEG-2 Layer 3

Pick up (CD)

Wavelength 795 nm

Laser power CLASS 1

Audio output (Disc)

Number of channels FL, FR, 2 channel

Audio performance (CD-Audio)

Frequency response 4 Hz to 20 kHz

S/N ratio 95 dB

Dynamic range 93 dB

Total harmonic distortion 0.005 %

■ Speaker Section

Type 1 way, 1 speaker system (Bass reflex)

Speaker unit(s)

Full range 6.5 cm Cone type

Impedance 6 Ω

Input power (IEC) 30 W (Max)

Output sound pressure 79 dB/W (1.0m)

Frequency range 55 Hz to 25 kHz (-16 dB)

90 Hz to 22 kHz (-10 dB)

■ General

Power supply AC 220 to 240 V, 50 Hz

Power consumption 28 W

Dimensions (W x H x D) 500 mm x 195 mm x 102.5 mm
(D = 69 mm minimum)

Mass Approx. 3 kg

Operating temperature range 0°C to +35°C

Operating humidity range 35% to 80 % RH (no condensation)

Power consumption in standby mode 0.2 W (approx)

Notes :

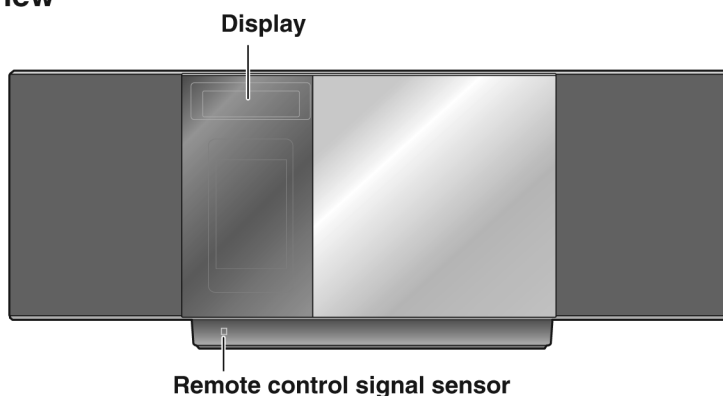
1. Specifications are subject to change without notices. Mass and dimensions are approximate.

2. Total harmonic distortion is measured by the digital spectrum analyzer.

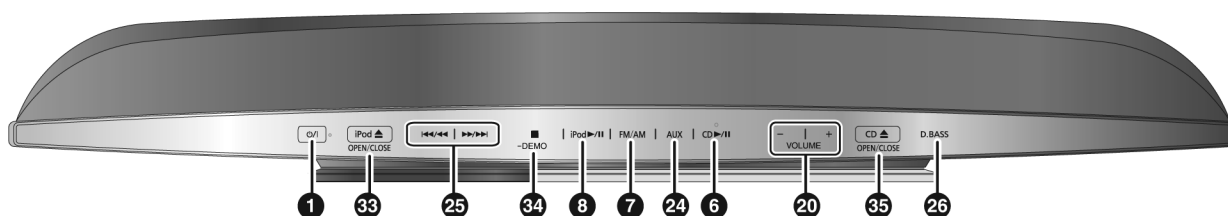
5 Location of Controls and Components

5.1. Main Unit Key Button Operations

Front View

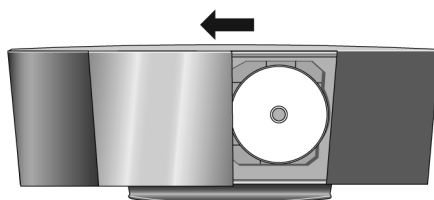


Top View (Top Panel)



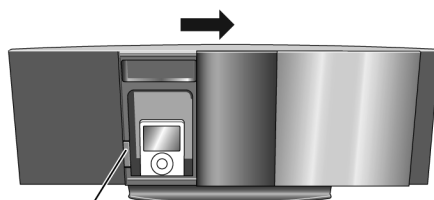
- 33 [iPod ▲, OPEN/CLOSE]
Open and close sliding door for iPod operation.
- 34 [■, -DEMO]
Stop/Demo
- 35 [CD ▲, OPEN/CLOSE]
Open and close sliding door for CD operation.

Sliding door Operation



35 To operate CD

Press  to open sliding door.
Press again to close sliding door after setting the CD in place.



33 To operate iPod

Press  to open sliding door.
Press again to close sliding door after iPod is inserted into the dock properly.

5.2. Remote Control Key Button Operations

- Refer to the numbers in parentheses for page reference.
- [**◀◀/▶▶**] and [**▶▶/▶▶**] described in the operations have the same controls as [**◀**] and [**▶**] respectively.

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 [DIMMER] Dims the display panel

3 Numeric buttons [**1-9, 0, ≥10**]
To select a 2-digit number
e.g. 16: [**≥10**] → [**1**] → [**6**]
To select a 3-digit number
e.g. 226: [**≥10**] → [**≥10**] → [**2**] → [**2**] → [**6**]

4 [DEL] Delete last programmed track

5 [PROGRAM]
CD/MP3 Program
Tuner Preset (Manual)

6 [CD ▶/||]
Selector switch to CD
Direct CD Play/CD Pause

7 [FM/AM]
FM/AM selection

8 [iPod ▶/||]
Selector switch to iPod
Direct iPod Play/iPod Pause

9 [■] Stop button

10 [RE-MASTER] Re-master on/off

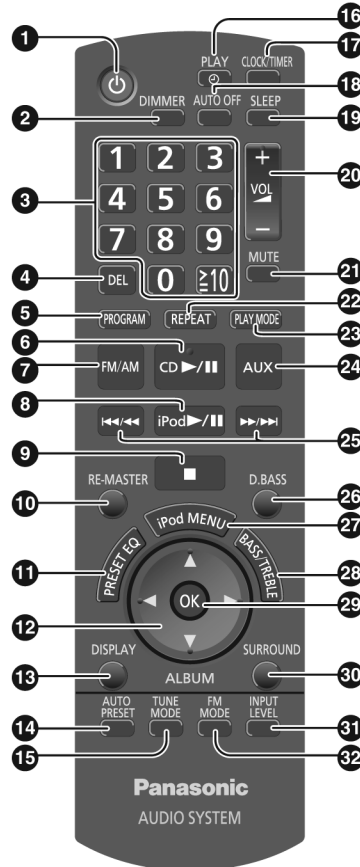
11 [PRESET EQ]
Preset EQ mode selector

12 [▲, ▼, ALBUM]
Album/track selection
iPod menu browsing
[**◀**, **▶**]
Track skip/search
Tune/preset channel selection
Time adjustment
Bass/treble adjustment

13 [DISPLAY]
CD: CD Display (Elapsed play time/
Remaining play time)
MP3: MP3 Display [Elapsed play time/
Album name/Track name/ID3 (Album)/
ID3 (Track)/ID3 (Artist)]
RDS: RDS Display (Station Name/
Program Type/Frequency)

14 [AUTO PRESET]
Tuner Preset (Auto)

15 [TUNE MODE]
Tune mode on/off
Selector switch to Manual/Preset



[⏻, PLAY] 16

Play timer on/off

[CLOCK/TIMER] 17

Clock and Timer setting

[AUTO OFF] 18

This function allows you to turn off the unit in disc mode only after the unit is left unused for 10 minutes. The setting is maintained even if the unit is turned off.
Press again to cancel this function.

[SLEEP] 19

Sleep timer setting

[VOL ▲+, -], [-VOLUME+] 20

To adjust the volume

[MUTE] 21

Mutes the sound
Press again to cancel muting

[REPEAT] 22

Repeat on/off

[PLAY MODE] 23

Play mode button

Tuner: Lowest/Current

[AUX] 24

Connecting to other external units

[◀◀/▶▶, ▶▶/▶▶] 25

Track skip/search
Tune/preset channel selection
Time adjustment
Bass/treble adjustment

[D.BASS] 26

D.BASS on/off

[iPod MENU] 27

To display iPod menu

[BASS/TREBLE] 28

Bass/Treble selection

[OK] 29

Disc play
Confirm selection

[SURROUND] 30

Surround mode on/off

[INPUT LEVEL] 31

Adjusting level in AUX mode to
Normal/High

[FM MODE] 32

FM mode on/off
Selector switch to Mono/Stereo

6 Operating Instructions

6.1. Disc and MP3 Information

Note

- During random play, you cannot skip to previous track.
- The current play mode is cleared when you open the sliding door.

CD

- During RANDOM play, you can search backward or forward only within the current track.

Note on CD-R and CD-RW

This unit can play CD-R and CD-RW recorded with CD-DA or MP3. Use an audio recording disc for CD-DA and finalize* it when you finish recording.

The unit may not be able to play some discs due to the condition of the recording.

* A process performed after recording that enables CD-R/CD-RW players to play audio CD-R and CD-RW.

Caution

Do not:

- use irregularly shaped CDs.
- attach extra labels and stickers.
- use CDs with labels and stickers that are coming off or with adhesive exuding from under labels and stickers.
- attach scratch-proof covers or any other kind of accessories.
- write anything on the CD.
- clean CDs with liquids (Wipe with a soft, dry cloth).

Note about using a DualDisc

The digital audio content side of a DualDisc does not meet the technical specifications of the Compact Disc Digital Audio (CD-DA) format so playback may not be possible.

MP3

The unit can play MP3, a method of compressing audio without hurting audio quality.

When creating MP3 files to play on this unit

- Maximum number of tracks and albums: 999 tracks and 256 albums.
- Compatible compression rate:
Between 64 kbps and 320 kbps (stereo).
128 kbps (stereo) is recommended.
- Disc formats: ISO9660 level 1 and level 2 (except for extended formats).
- The time for reading TOC depends on the number of the tracks, the folders or folder structures.

Limitations on MP3

- This unit is compatible with multi-sessions but if there are a lot of sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.
- This unit cannot play files recorded using packet write.
- If the disc includes both MP3 and normal audio data (CD-DA), the unit plays the type recorded in the inner part of the disc.
If the disc includes both MP3 and other types of audio data (e.g. WMA or WAV), the unit plays only the MP3.
- Depending on how you create MP3 files, they may not play in the order you numeric them or may not play at all.

7 Self diagnosis and special mode setting

This unit is equipped with features of self-diagnostic & special mode setting for checking the functions & reliability.

7.1. Service Mode Summary Table

The service modes can be activated by pressing various button combination on the main unit and remote control unit.

Below is the summary for the various modes for checking:

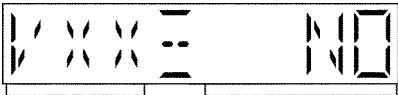
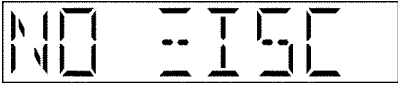
Player buttons	Remote control unit buttons	Application	Note
■, -DEMO	[4], [7]	To Enter into Doctor Mode for various checking	(Refer to the section "7.2.1 Service Mode Table 1.)

Player buttons	Remote control unit buttons	Mode Name	Note
Note : Applicable in Doctor Mode	[1]	FL Display Test	(Refer to the section "7.2.2 service mode Table 2 for more information.)
	[6]	CD and Tape Eject test	(Refer to the section "7.2.2 service mode Table 2 for more information.)
	[7]	VOLUME setting (50dB)	(Refer to the section "7.2.2 service mode Table 2 for more information.)
	[8]	VOLUME setting (29dB)	(Refer to the section "7.2.2 service mode Table 2 for more information.)
	[9]	VOLUME setting (0dB)	(Refer to the section "7.2.2 service mode Table 2 for more information.)
	[≥10], [1], [2]	CD Traverse Unit Test Mode	(Refer to the section "7.2.2 service mode Table 2 for more information.)
	[≥10], [1], [3]	CD Combination Test Mode	(Refer to the section "7.2.2 service mode Table 2 for more information.)
	[SLEEP]	Cold Start	(Refer to the section "7.2.2 service mode Table 2 for more information.)
	[≥10], [2], [1]	Mecha sliding Panel Reliability	(Refer to the section "7.2.2 service mode Table 2 for more information.)

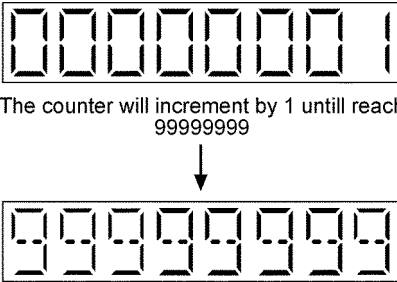
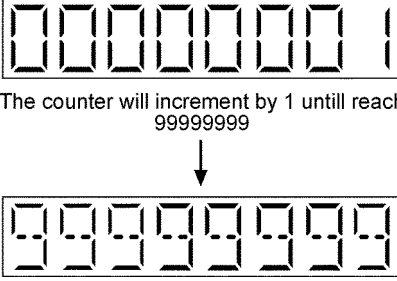
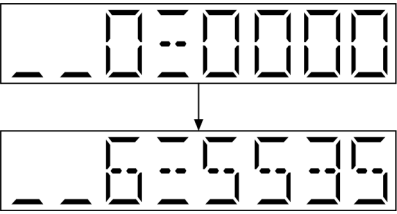
7.2. Service Mode Table

Below is the various special modes for checking:-

7.2.1. Service Mode Table 1

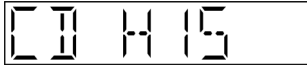
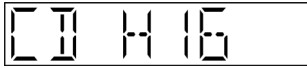
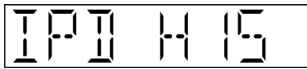
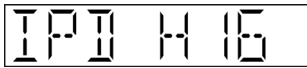
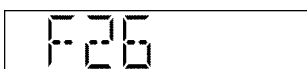
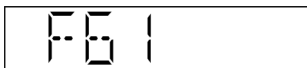
Item		FL Display	Key Operation
Mode Name	Description		Front Key
Self -Diagnostic Mode	To enter into self diagnostic checking for main unit.		1. Select [CD ▶/■] for CD mode (Ensure no CD inserted). 2. Press and hold [■, -DEMO] button for 2 seconds follow by [▶▶/▶▶]. To exit Doctor Mode, press [⏏/I] button on main unit or remote control.
Doctor Mode	To enter into Doctor Mode for checking of various items and displaying EEPROM and firmware version. Note: The micro-processor version as shown is an example. It will be revise when there is an updates. FL Display sequence Display 1 → 2	(Display 1)  Version Display (DEC) Check sum (HEX) Checksum : (Condition 1)  Version Display (DEC) No Rom correction (a) If there is NO EEPROM header string OR (b) If there is no EEPROM (no data is received by micro-processor) [NO] is displayed. Checksum : (Condition 2)  If the version of the EEPROM does not match or not working properly [NG] is display. Checksum : (Condition 3)  If the EEPROM version matches, checksum [YYYY] is displayed. (Display 2)  The Checksum of EEPROM and firmware version will be display for 2 sec.	In CD mode: 1. Press [■, -DEMO] button on main unit follow by [4] and [7] on remote control. To exit Doctor Mode, press [⏏/I] button on main unit or remote control.

7.2.2. Service Mode Table 2

Item		FL Display	Key Operation
Mode Name	Description		Front Key
FL Display Test	To check the FL segments display (All segments will light up)		In Doctor Mode: 1. Press [1] button on remote control. To cancel, press [0] button on remote control. To exit Doctor Mode, press [⏮/1] button on main unit or remote control.
Volume Setting	To check for volume setting during this mode, Bass & treble is set to 0dB & EQ is switch off.		In Doctor Mode: 1. Press [7] button on remote control. To exit Doctor Mode, press [⏮/1] button on main unit or remote control.
			In Doctor Mode: 2. Press [8] button on remote control. To exit Doctor Mode, press [⏮/1] button on main unit or remote control.
			In Doctor Mode: 3. Press [9] button on remote control. To exit Doctor Mode, press [⏮/1] button on main unit or remote control.
CD Traverse Unit Test Mode	To check for the traverse unit operation. In this mode, the first & last track is access & read. (TOC). It fails when TOC is not completed by IOS or the traverse is out of focus.	 The counter will increment by 1 until reach 99999999	In Doctor Mode: 1. Press [≥10], [1], [2] button on remote control. To cancel, press [0] button on remote control. To exit Doctor Mode, press [⏮/1] button on main unit or remote control.
CD Combination Test Mode	A combination of CD loading & traverse unit test.	 The counter will increment by 1 until reach 99999999	In Doctor Mode: 1. Press [≥10], [1], [3] button on remote control. To cancel, press [0] button on remote control. To exit Doctor Mode, press [⏮/1] button on main unit or remote control.
Cold Start	To activate cold start upon next AC power up.		In Doctor Mode: 1. Press [SLEEP] button on remote control. To exit Doctor Mode, press [⏮/1] button on main unit or remote control.
Mecha Sliding Panel Reliability	To check the operation of sliding Panel. Sequence as follow : 1. Panel set to centre position. 2. CD Open & stop at left position for 1s. 3. CD Close & stop at centre position for 1s. 4. iPod open & stop at right position for 1s. 5. iPod close & stop at centre position for 1s.		In Doctor Mode: 1. Press [≥10] follow by [2] & then [1] button on remote control. To cancel, press [0] button on remote control. To exit Doctor Mode, press [⏮/1] button on main unit or remote control.

7.3. Error Code Table

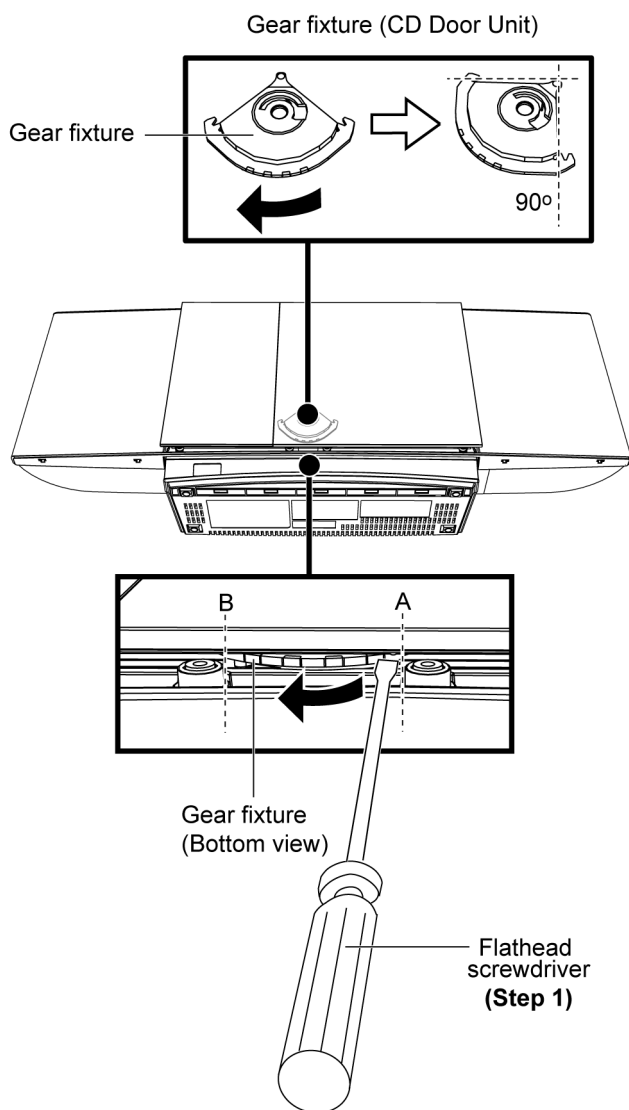
Self-Diagnosis Function provides information on any problems occurring for the unit and its respective components by displaying error codes. These error codes such as U**, H** and F** are stored in memory and held unless it is cleared. The error code is automatically displayed after entering into self-diagnostic mode.

Error Code	Diagnosis Contents	Description of error	Automatic FL Display	Remarks
CD H15	CD Open Abnormal	During operation POS_SW_R On fail to be detected with 3 sec. Error No. shall be clear by force or during cold start.		For CD Mechanism Unit Press [■] on main unit for next error.
CD H16	CD Closing Abnormal	During operation POS_SW_CEN On fail to be detected with 3 sec. Error No. shall be clear by force or during cold start.		For CD Mechanism Unit Press [■] on main unit for next error.
IPD H15	iPod Open Abnormal	During operation POS_SW_L On fail to be detected with 3 sec. Error No. shall be clear by force or during cold start.		For iPod Press [■] on main unit for next error.
IPD H16	iPod Closing Abnormal	During operation POS_SW_CEN On fail to be detected with 3 sec. Error No. shall be clear by force or during cold start.		For iPod Press [■] on main unit for next error.
F15	CD REST SW Abnormal	CD traverse position initial setting operation failsafe counter (10 s) waiting for REST SW to turn on. Error No. shall be clear by force or during cold start.		For CD Mechanism Unit Press [■] on main unit for next error.
F26	Communication between CD servo LSI and micro-p abnormal.	During switch to CD function, if SENSE = "L" within failsafe time of 20ms.		For CD Mechanism Unit Press [■] on main unit for next error.
F61/F76	Power Amp IC output abnormal	During power-on, PDET1, PDET2 & MAINV_DET / TEMP_DET is "L" after 1 sec.		For power. Press [■] on main unit for next error.
				

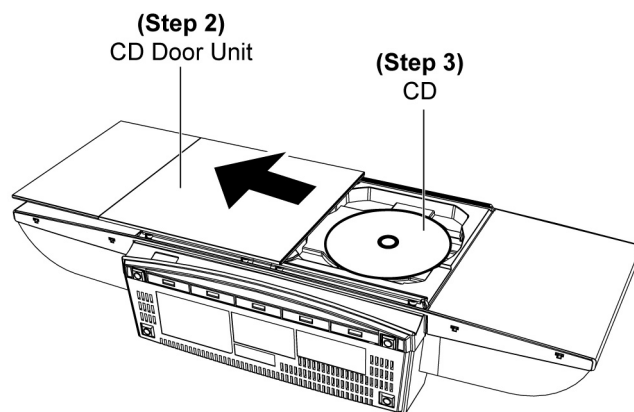
8 Troubleshooting Guide

8.1. CD Door Unit Jam

8.1.1. Removing the CD



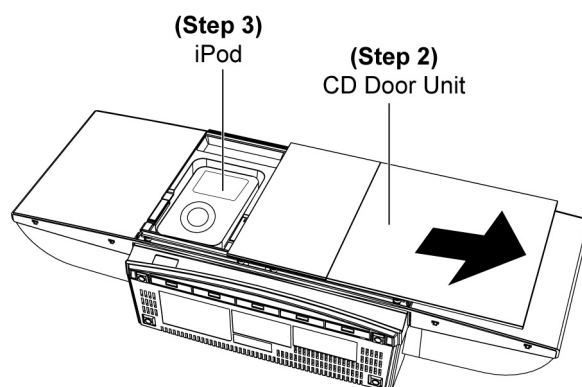
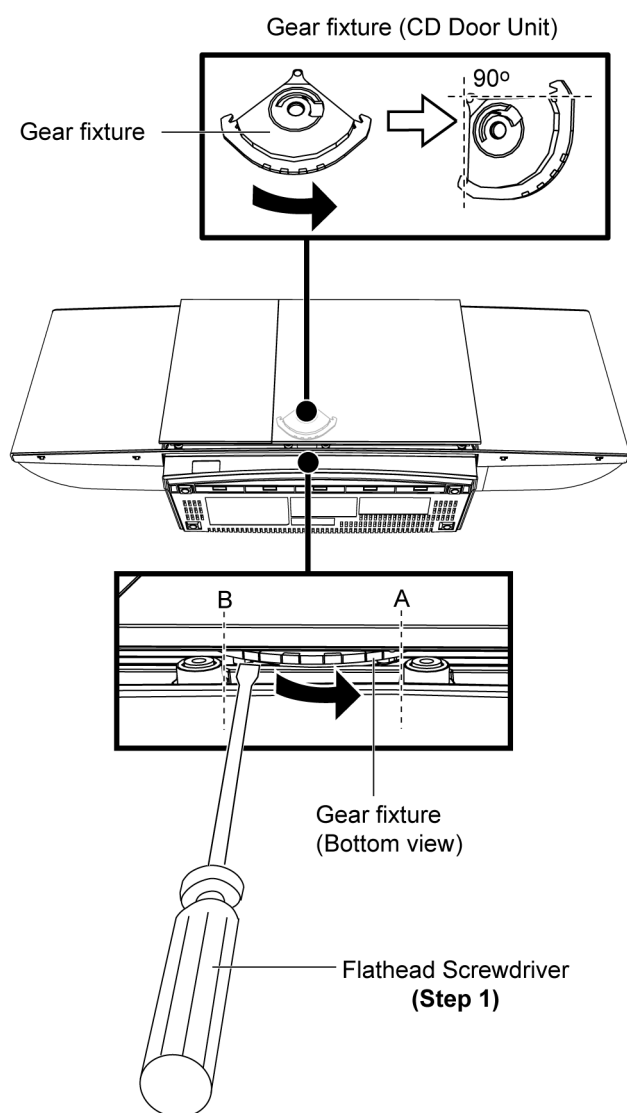
Step 1 : Insert a flathead screwdriver into the hole behind the CD Door Unit and push the gear fixture from point A to B.



Step 2 : Push the CD Door Unit as arrow shown until the CD is fully in sight.

Step 3 : Remove the CD.

8.1.2. Removing the iPod



Step 2 : Push the CD Door Unit as arrow shown until the iPod is fully in sight.

Step 3 : Remove the iPod.

Step 1 : Insert a flathead screwdriver into the hole behind the CD Door Unit and push the gear fixture from point B to A.

9 Disassembly and Assembly Instructions

“ATTENTION SERVICER”

Be careful when disassembling and servicing.

Some chassis components may have sharp edges

Special Note:

1. This section describes the disassembly procedures for all the major printed circuit boards and main components.
2. Before the disassembly process was carried out, do take special note that all safety precautions are to be carried out.
(Ensure that no AC power supply is connected during disassembling.)
3. For assembly after operation checks or replacement, reverse the respective procedures.
Special reassembly procedures are described only when required.
4. Do take note of the locators on each printed circuit board during reassembling procedures.
5. The Switch Regulator IC may have high temperature after prolonged use.
6. Use caution when removing the top cabinet and avoid touching heat sinks located in the unit.

**CAUTION: HOT!!
PLEASE DO NOT
TOUCH THE HEAT SINK**

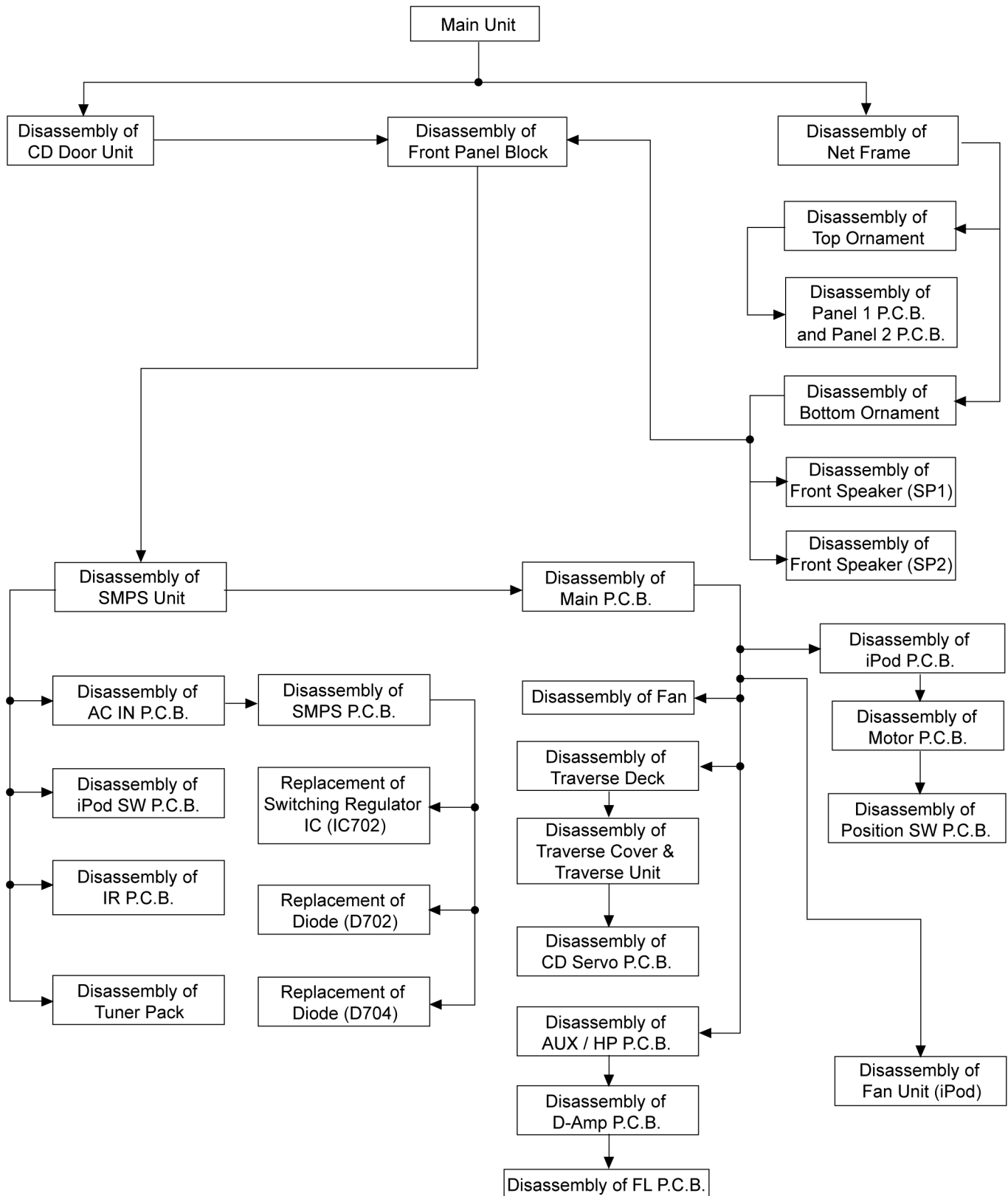
7. Select items from the following index when checks or replacement are required.

- Disassembly of CD Door Unit
- Disassembly of Net Frame Assembly
- Disassembly of Top Ornament
- Disassembly of Bottom Ornament
- Disassembly of Speaker Unit (SP1)
- Disassembly of Speaker Unit (SP2)
- Disassembly of Panel 1 & Panel 2 P.C.B.
- Disassembly of Front Panel Block
- Disassembly of Tuner Pack
- Disassembly of SMPS Unit
- Disassembly of AC IN P.C.B.
- Disassembly of SMPS P.C.B.
- Replacement of Switching Regulator IC (IC702)
- Replacement of Diode (D702)
- Replacement of Diode (D704)
- Disassembly of Main P.C.B.
- Disassembly of Fan
- Disassembly of AUX / HP P.C.B.
- Disassembly of Traverse Deck
- Disassembly of Traverse Cover & Traverse Unit
- Disassembly of CD Servo P.C.B.
- Disassembly of D-Amp P.C.B.
- Disassembly of Fan Unit (iPod)
- Disassembly of FL P.C.B.
- Disassembly of iPod P.C.B.
- Disassembly of Motor P.C.B.
- Disassembly of Position SW P.C.B.
- Disassembly of iPod SW P.C.B.
- Disassembly of IR P.C.B.

9.1. Disassembly flow chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.

To assemble the unit, reverse the steps shown in the chart below.



9.2. Type of Screw

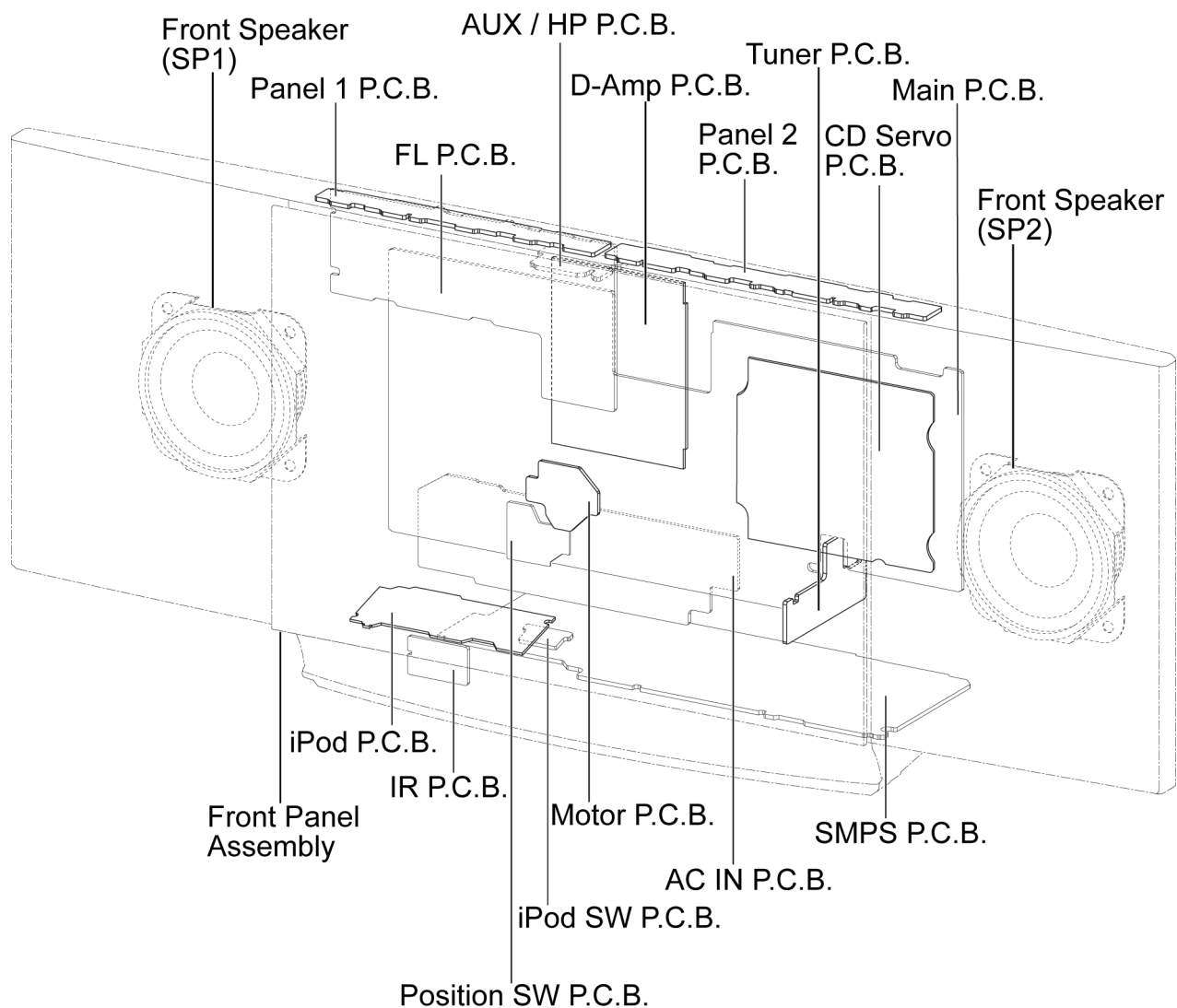
CAUTION NOTE:

Please use original screw and at correct locations.

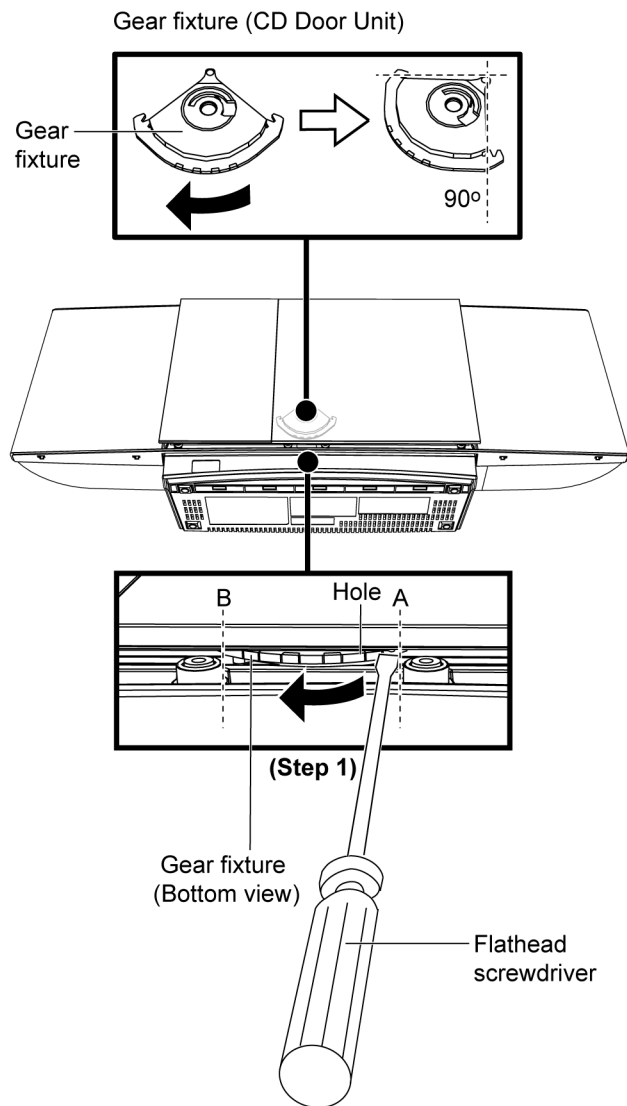
Below shown is part no. of different screw types used:

- | | |
|------------------------|-----------------------|
| a : XTB2+6GFJK | g : RHD30090-1 |
| b : RHD26046 | h : XTV3+8FFJ |
| c : XTB3+12JFJK | i : XTV3+6FFJ |
| d : XTB3+8JFJK | j : XTB3+16JFJ |
| e : RHD14136 | k : XTB3+8JFJ |
| f : XTN2+6GFJ | l : RHD30092-1 |

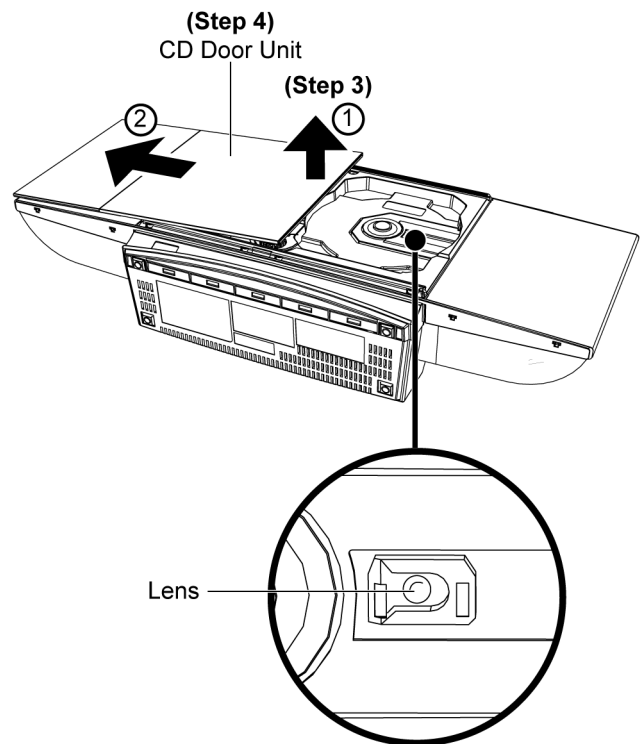
9.3. Main Parts Location Diagram



9.4. Disassembly of CD Door Unit



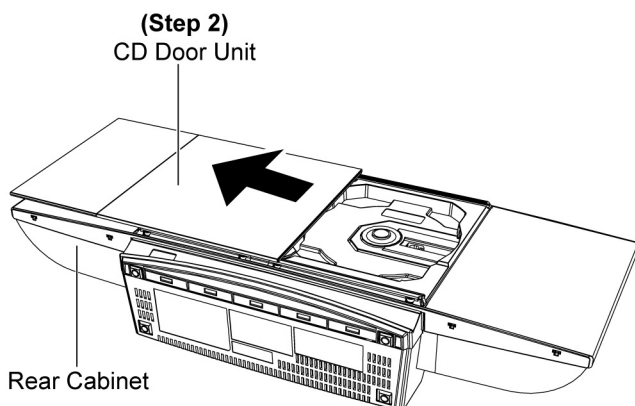
Step 1 : Insert a flathead screwdriver into the hole behind the CD Door Unit and push the gear fixture from point A to B.



Step 3 : Lift up the CD Door Unit slightly as arrow ① shown and push it as arrow ② shown.

Step 4 : Remove the CD Door Unit.

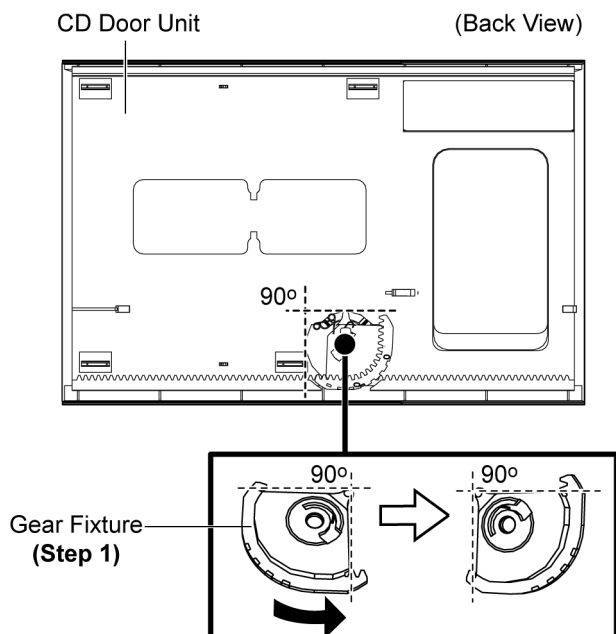
Caution : Avoid touching the lens during assembling / Dis-assembly of the CD Door Unit.



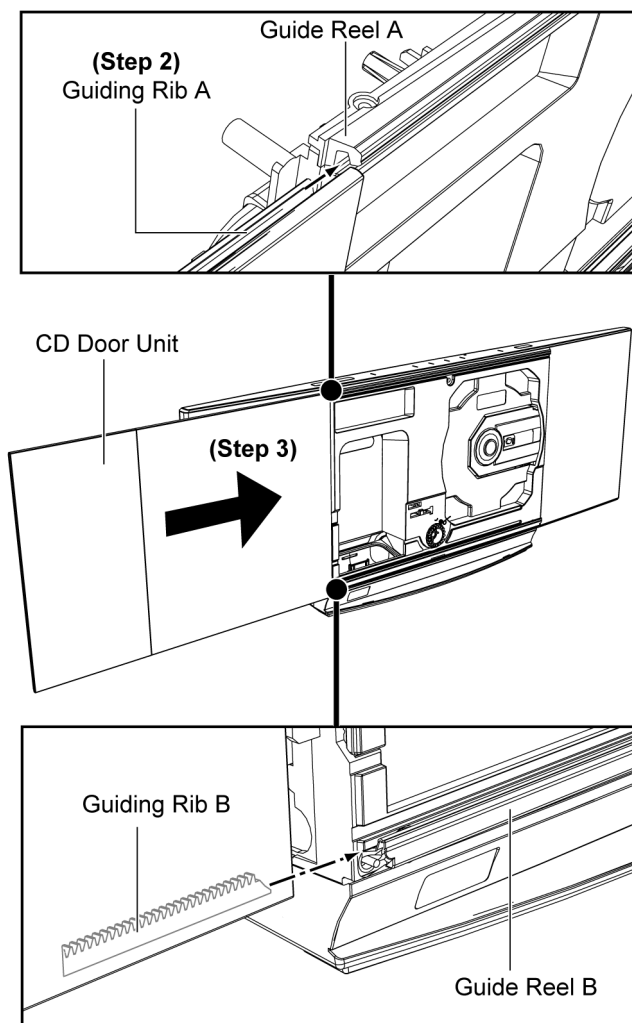
Step 2 : Gently push the CD Door Unit manually until it is fully extended.

• **Assembly of CD Door Unit**

Caution : Avoid touching the lens during assembling / Dis-assembly of the CD Door Unit.



Step 1 : Adjust the gear fixture as diagram shown.



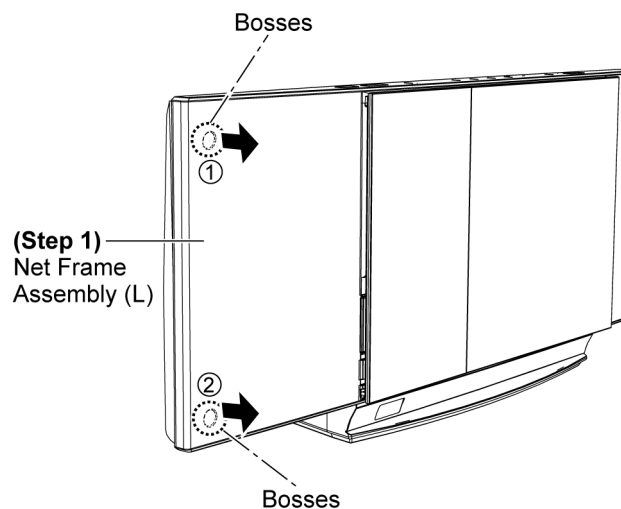
Step 2 : Align the CD Door Unit with the (upper & lower rib), guide reel (A & B) on the front panel.

Step 3 : Gently push the CD Door Unit until it is fully closed.

9.5. Disassembly of Net Frame Assembly

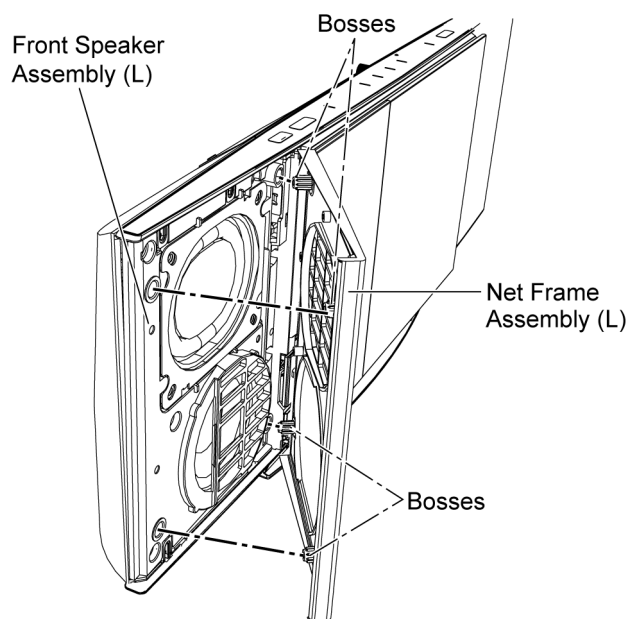
• Disassembly of Net Frame Assembly (L)

(Front view)

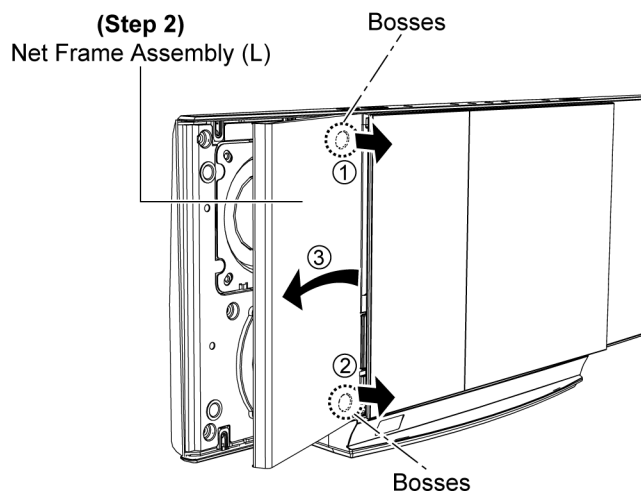


Step 1 : Gently lift up Net Frame Assembly (L).

Caution : During assembly ensure the net frame assembly (L) is seated properly



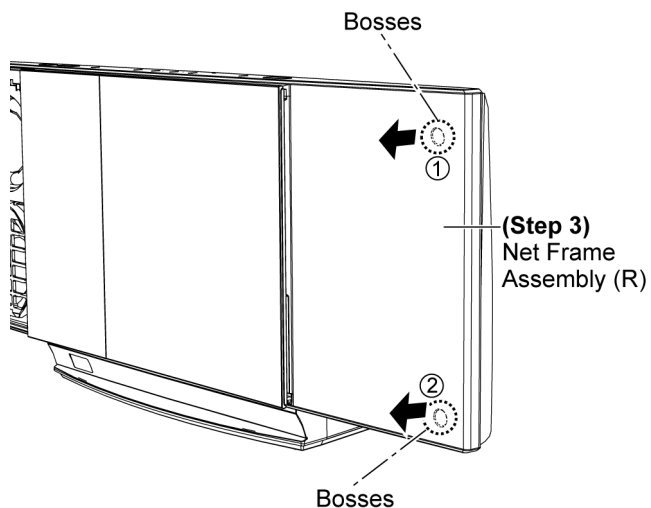
Caution : During assembly ensure that the bosses are aligned to their respective holes in Front Speaker Assembly (L) as shown.



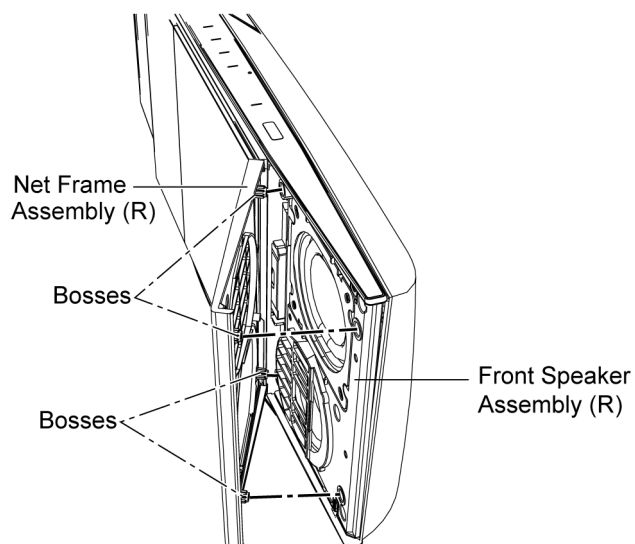
Step 2 : Remove Net Frame Assembly (L) as arrow shown.

• **Disassembly of Net Frame Assembly (R)**

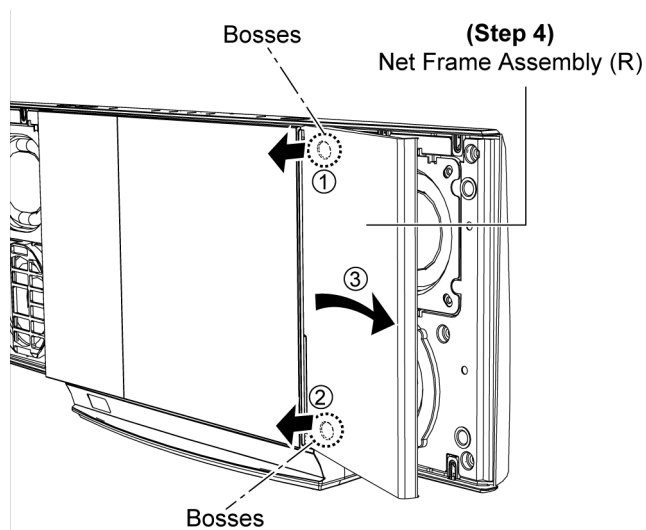
(Front view)



Step 3 : Gently lift up Net Frame Assembly (R).



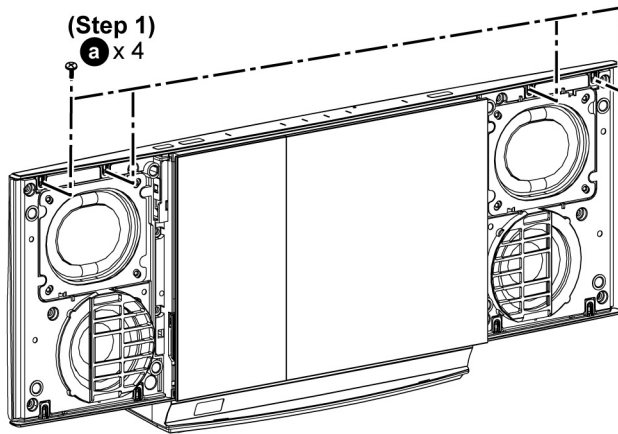
Caution : During assembly ensure that the bosses are aligned to their respective holes in Front Speaker Assembly (R) as shown.



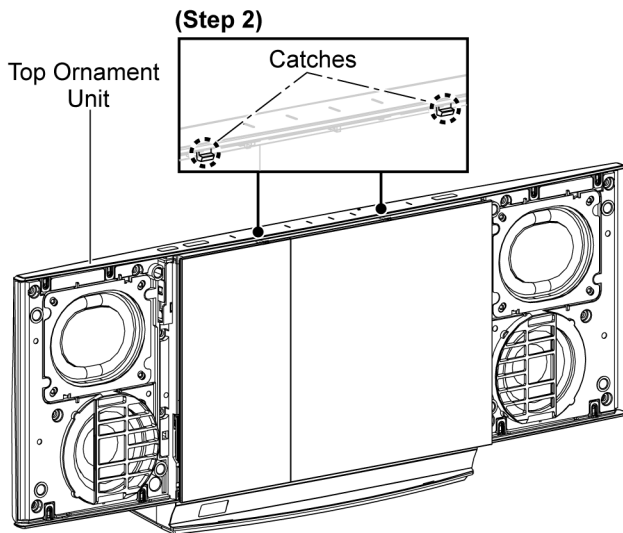
Step 4 : Remove Net Frame Assembly (R) as arrow shown.

9.6. Disassembly of Top Ornament

- Follow the (Step 1) - (Step 4) of item 9.5.

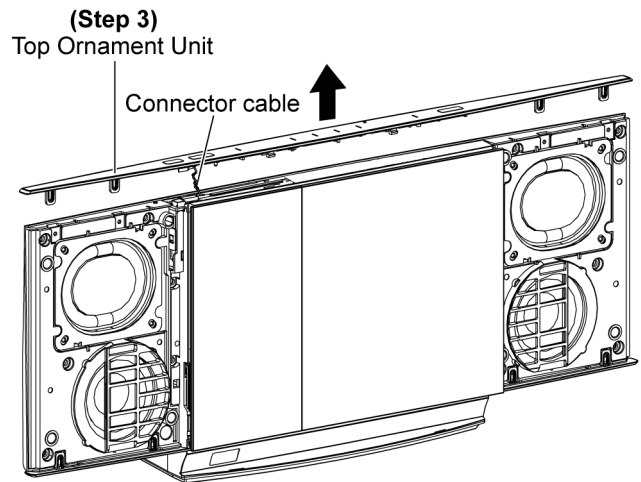


Step 1 : Remove 4 screws.



Step 2 : Gently release the 2 catches on the Top Ornament Unit.

Caution : Take extra care not to damage the Top Ornament Unit when releasing the catches during disassembling.

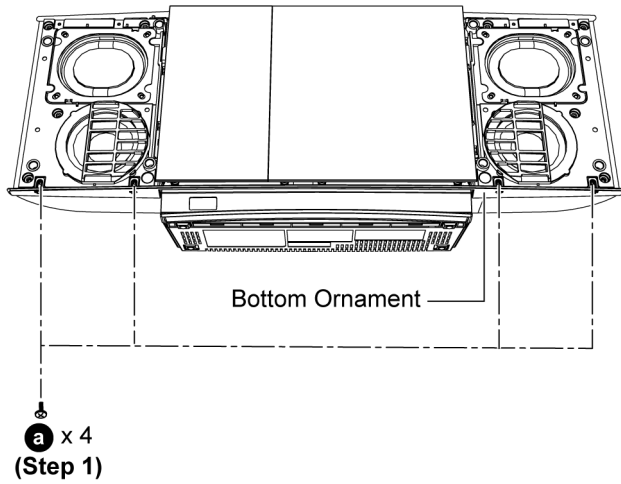


Step 3 : Lift up the Top Ornament Unit.

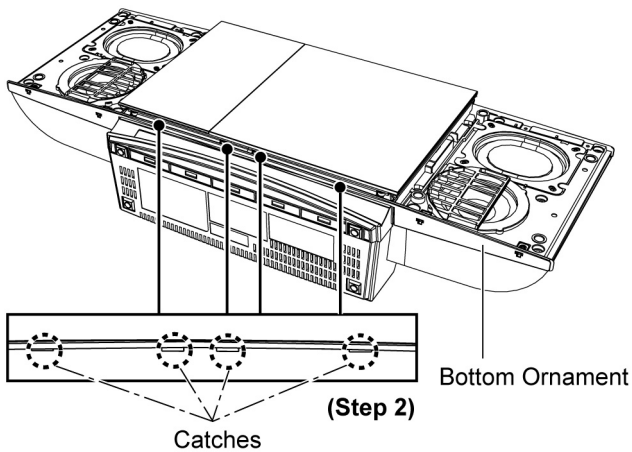
Caution : Avoid pulling when detaching the Top Ornament or apply strong force it may lead to the broken of connecting cable.

9.7. Disassembly of Bottom Ornament

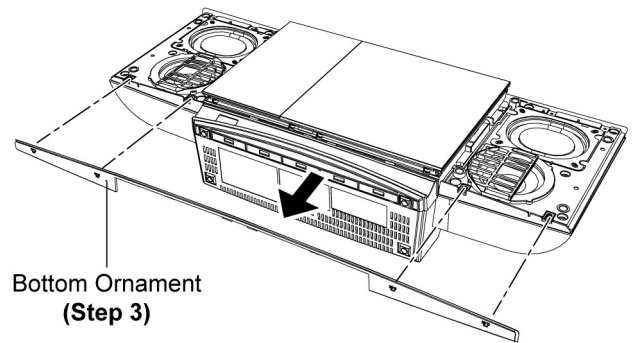
- Follow the (Step 1) - (Step 4) of item 9.5.



Step 1 : Remove 4 screws.



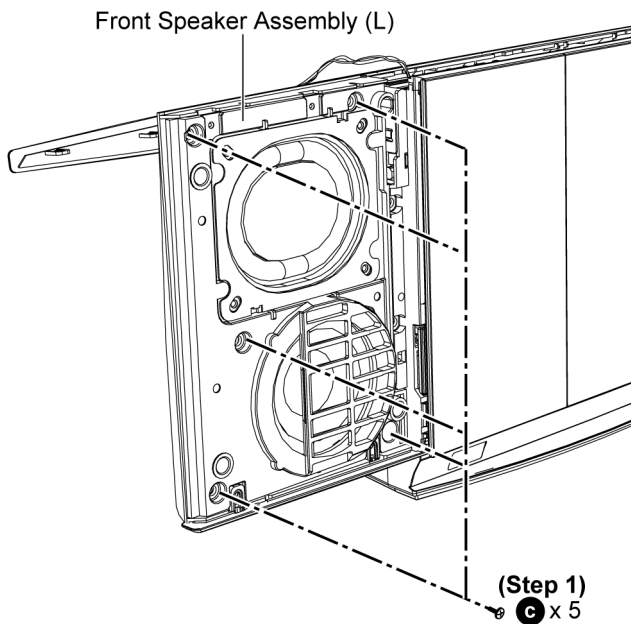
Step 2 : Gently release the 4 catches on the Bottom Ornament.
Caution : Take extra care not to damage the Bottom Ornament during disassembling.



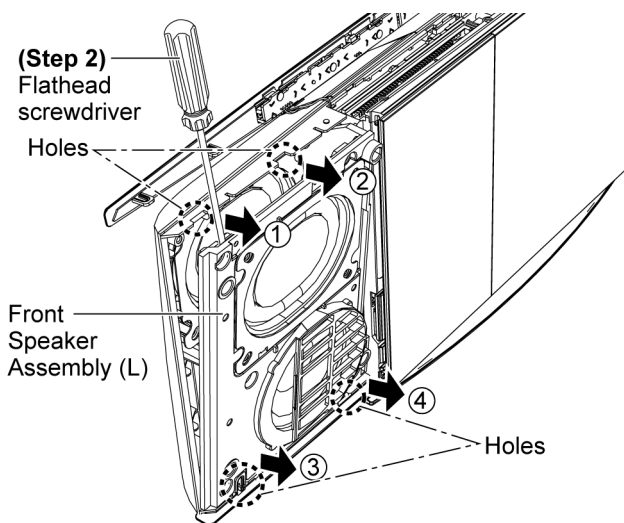
Step 3 : Remove the Bottom Ornament.

9.8. Disassembly of Speaker Unit (SP1)

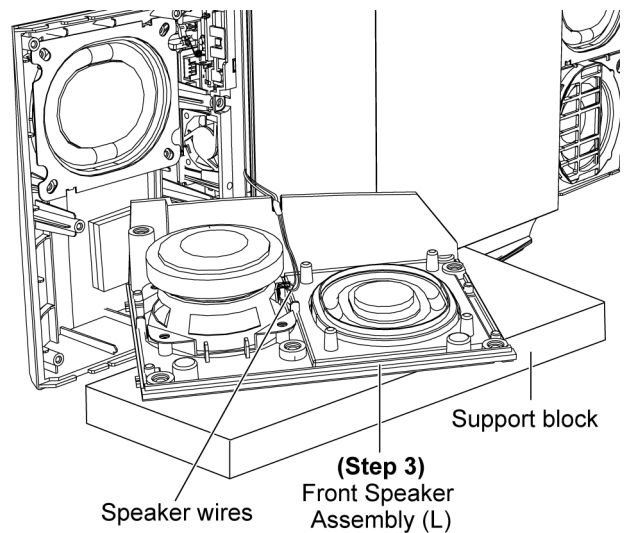
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.



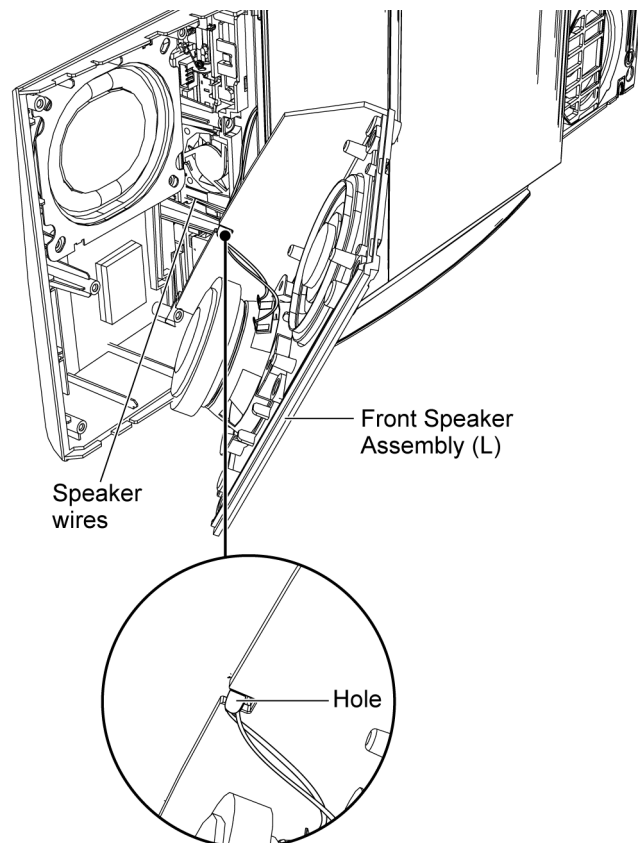
Step 1 : Remove 5 screws.



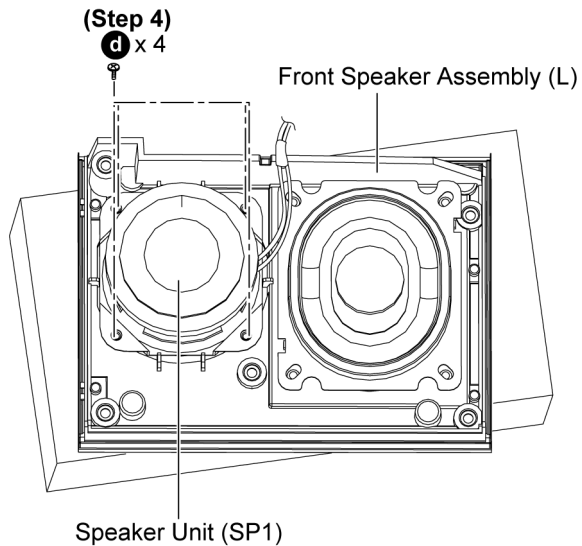
Step 2 : Using a flathead screwdriver, apply gentle force at the 4 holes in the Front Speaker Assembly (L) in order show to detach it from the Main Unit as arrows shown.



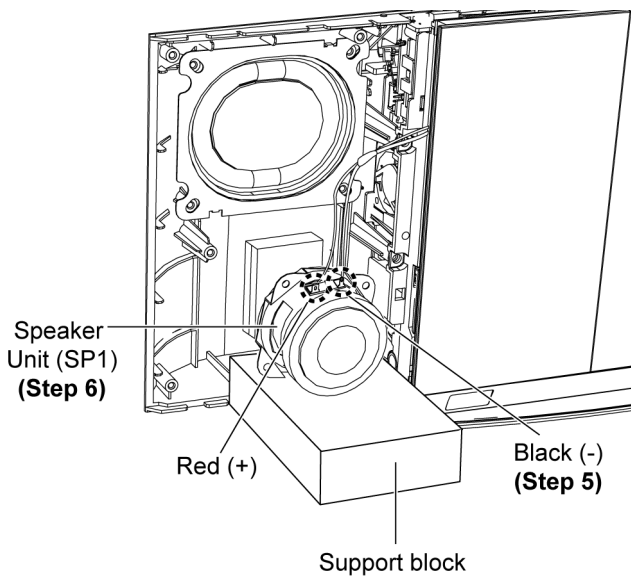
Step 3 : Place the Front Speaker Assembly (L) on a support block as shown.



Caution : During assembling of the Front Speaker Assembly (L), insert the speaker wires into the hole in the Front Speaker Assembly (L).



Step 4 : Remove 4 screws.

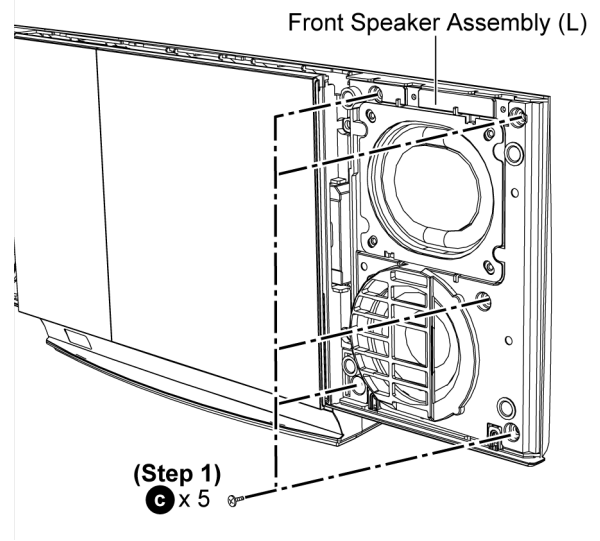


Step 5 : Desolder the speaker terminals of the red (+) and black (-) speaker wires.

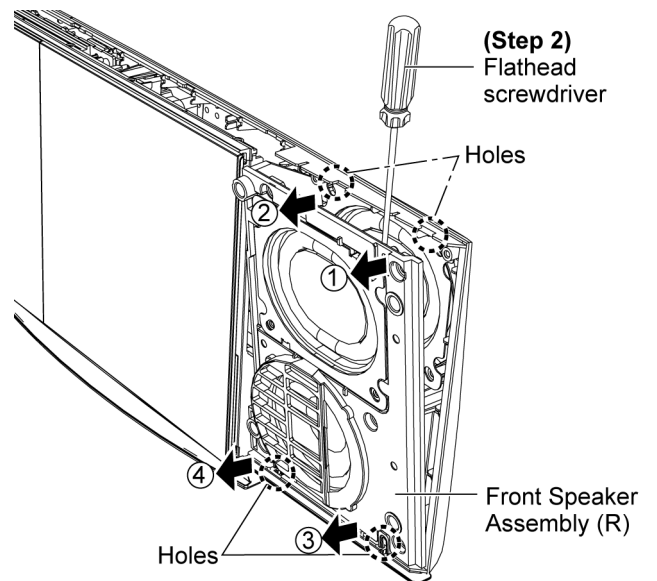
Step 6 : Remove Speaker unit (SP1).

9.9. Disassembly of Speaker Unit (SP2)

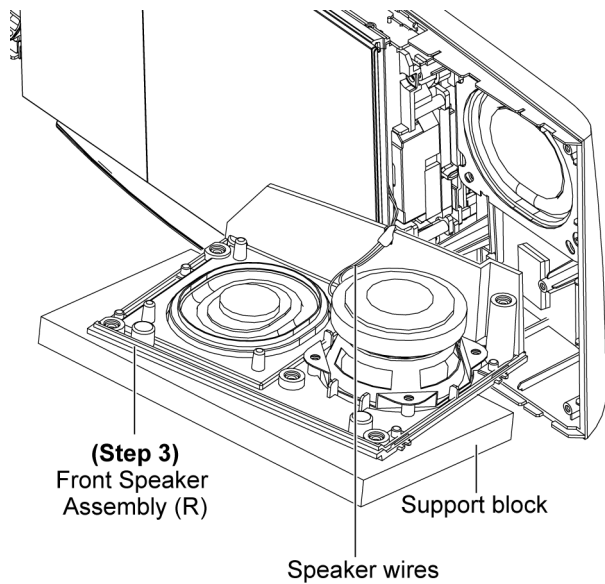
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.



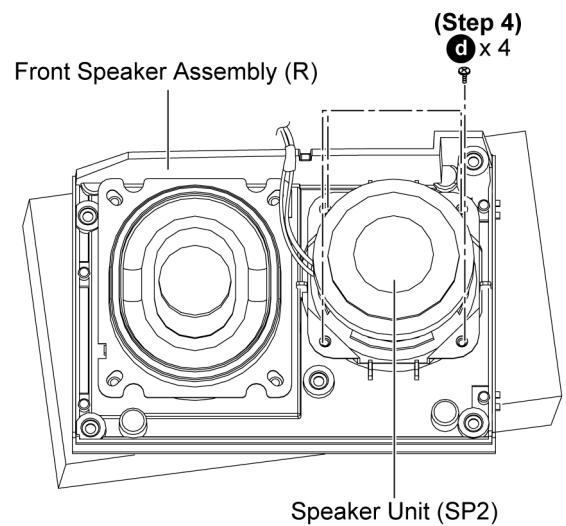
Step 1 : Remove 5 screws.



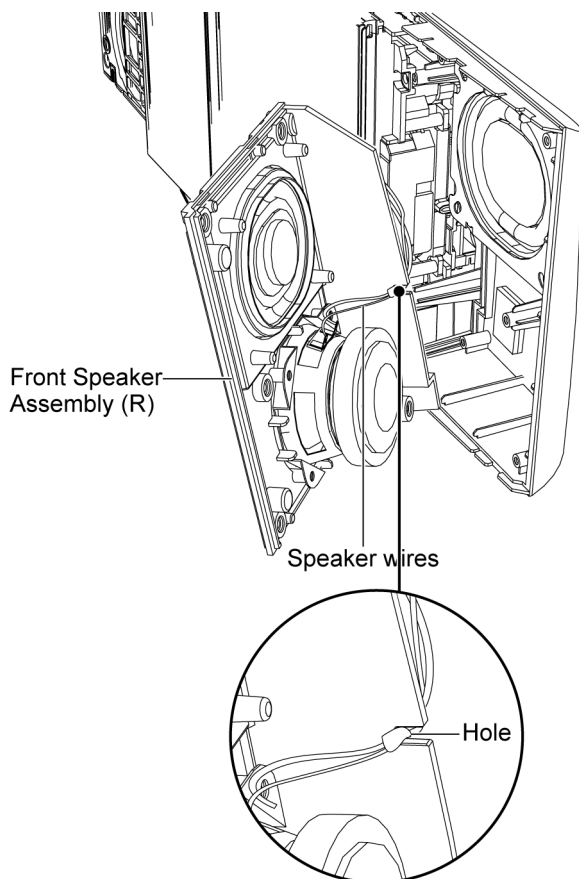
Step 2 : Using a flathead screwdriver, apply gentle force at the 4 holes in the Front Speaker Assembly (R) to detach it from the Main Unit as arrows shown.



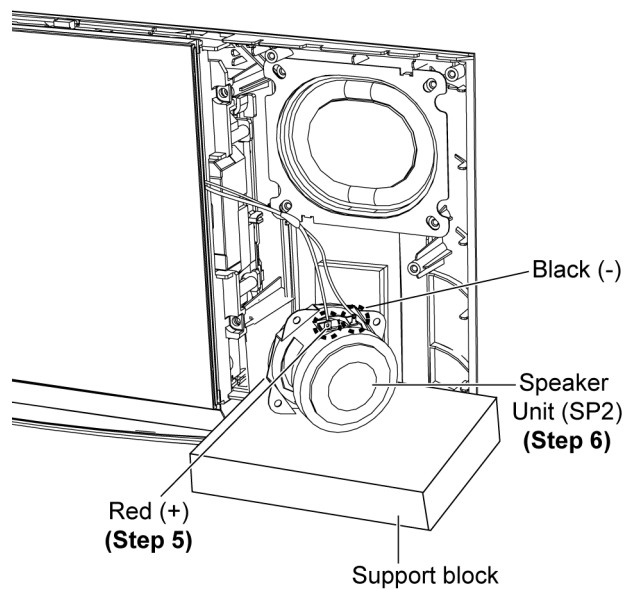
Step 3 : Place the Front Speaker Assembly (R) on a support block as shown.



Step 4 : Remove 4 screws.



Caution : During assembling of the Front Speaker Assembly (R), insert the speaker wires into the hole in the Front Speaker Assembly (R).



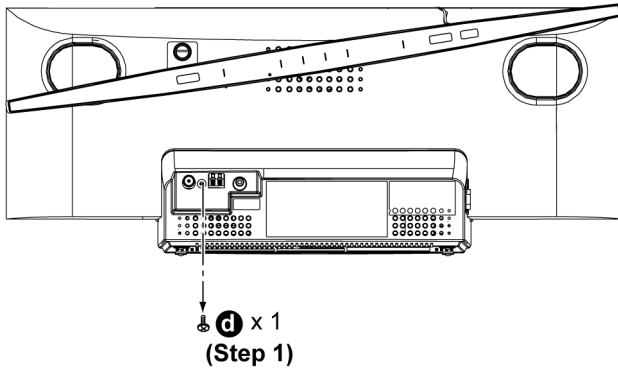
Step 5 : Desolder the speaker terminals of the red (+) and black (-) speaker wires.

Step 6 : Remove Speaker unit (SP2).

9.10. Disassembly of Panel 1 & Panel 2 P.C.B.

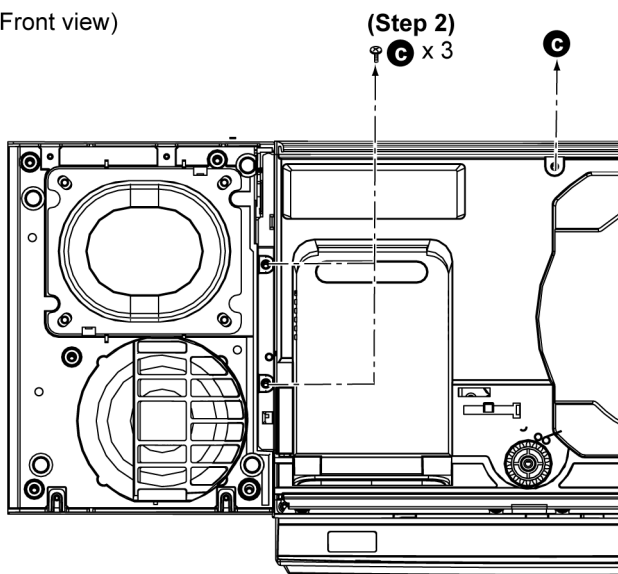
- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.

(Rear view)



Step 1 : Remove 1 screw.

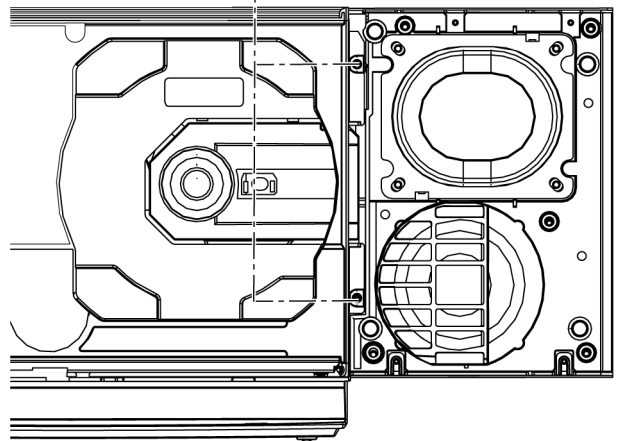
(Front view)



Step 2 : Remove 3 screws.

(Step 3)

C x 2

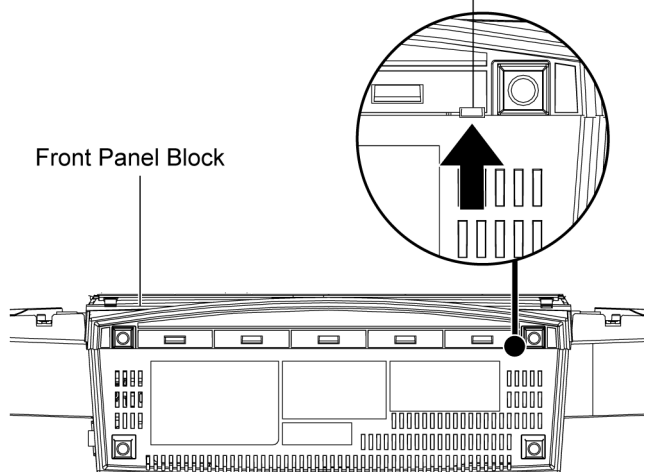


Step 3 : Remove 2 screws.

(Bottom view)

(Step 4)

Catch



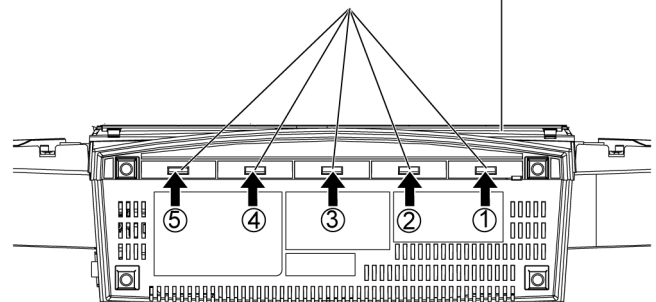
Step 4 : Press to release catch as arrow shown.

(Bottom view)

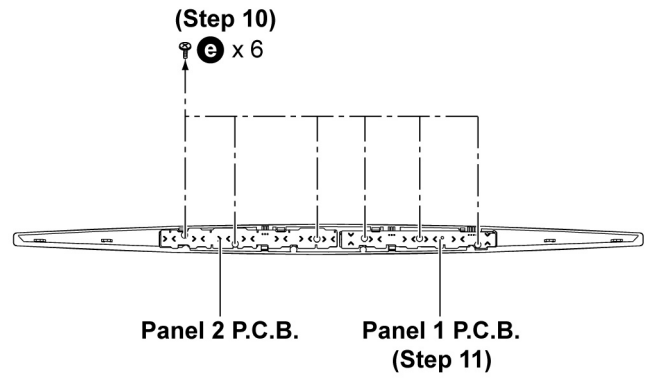
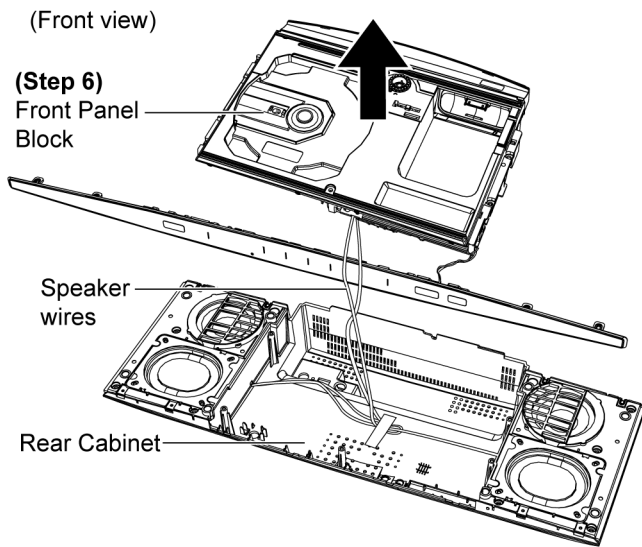
Front Panel Block

(Step 5)

Catches



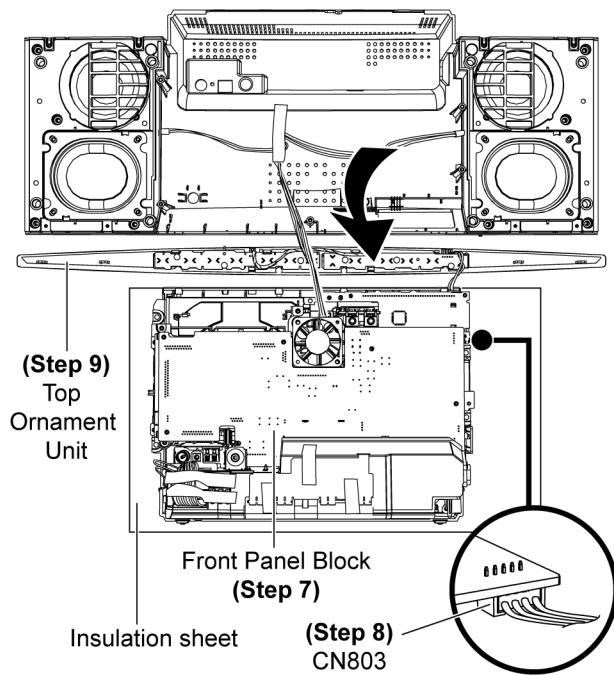
Step 5 : Press to release catches to lift up the Front Panel Block slightly as arrow shown.



Step 10 : Remove 6 screws.

Step 11 : Remove Panel 1 P.C.B. and Panel 2 P.C.B..

Step 6 : Lift up the Front Panel Block.



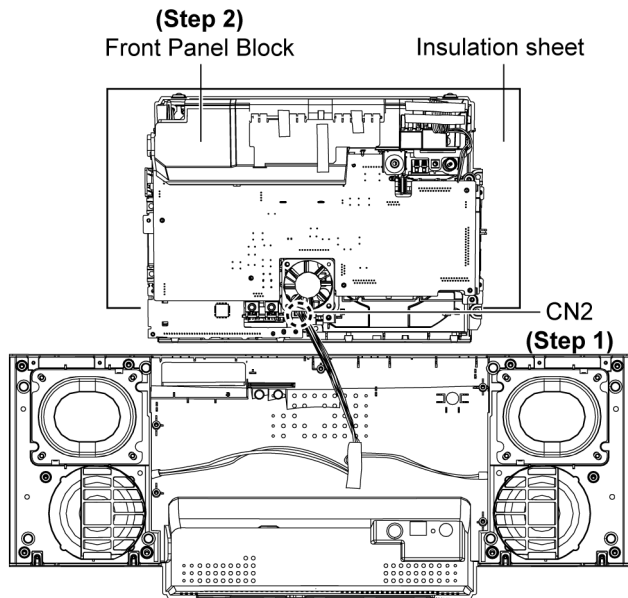
Step 7 : Upset the Front Panel Block as arrow shown.

Step 8 : Detach 5P cable at the connector (CN803) on Main P.C.B..

Step 9 : Remove Top Ornament Unit.

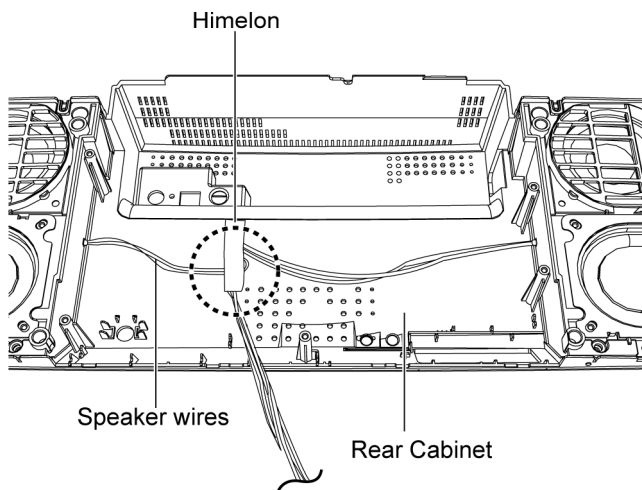
9.11. Disassembly of Front Panel Block

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.



Step 1 : Detach 4P cable at the connector (CN2) on D-Amp P.C.B..

Step 2 : Remove the Front Panel Block.

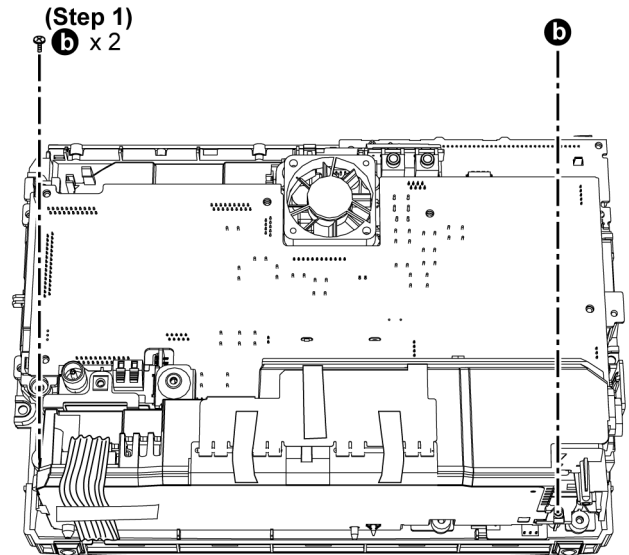


Caution 1 : During assembling of the Front Panel Block, ensure that the speaker wires are fitted into the holes on both sides of the Rear Cabinet as shown.

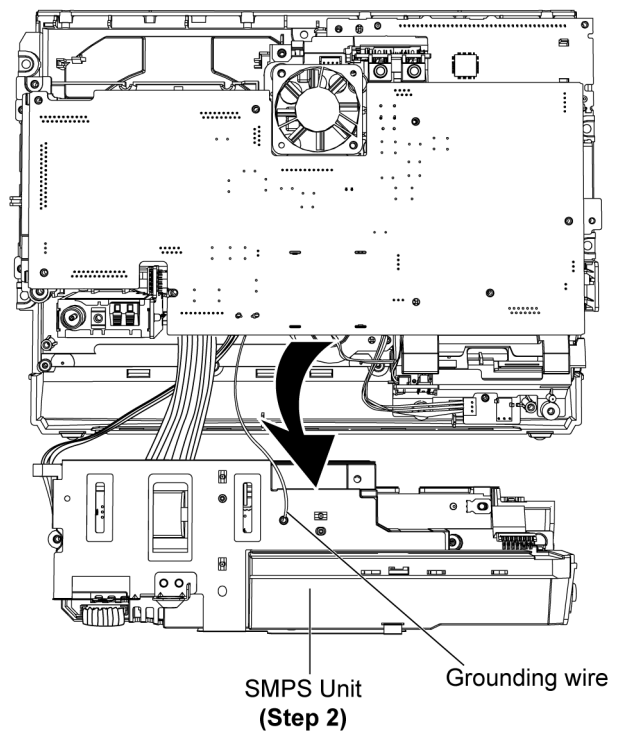
Caution 2 : During assembling of the Front Panel Block, replace himelon if it is torn.

9.12. Disassembly of Tuner Pack

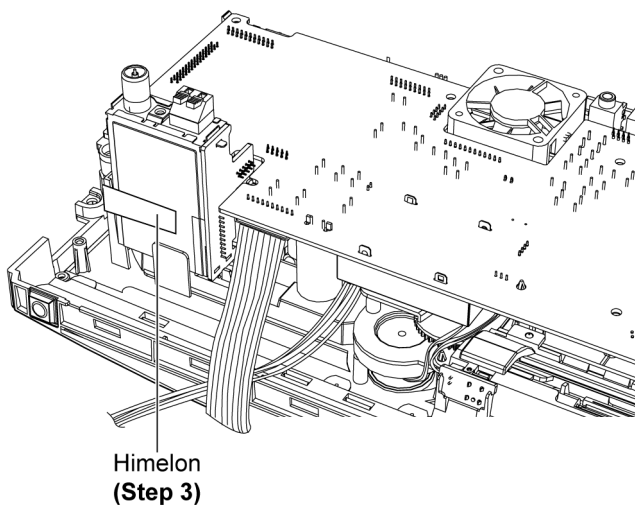
- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.



Step 1 : Remove 2 screws.

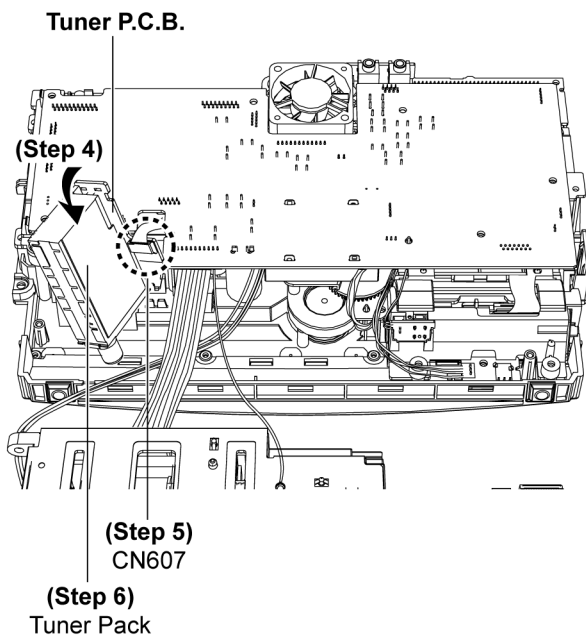


Step 2 : Lift up and flip over the SMPS Unit.



Step 3 : Lift up the himelon.

Caution : During assembling of Tuner Pack, replace himelon if it is torn.



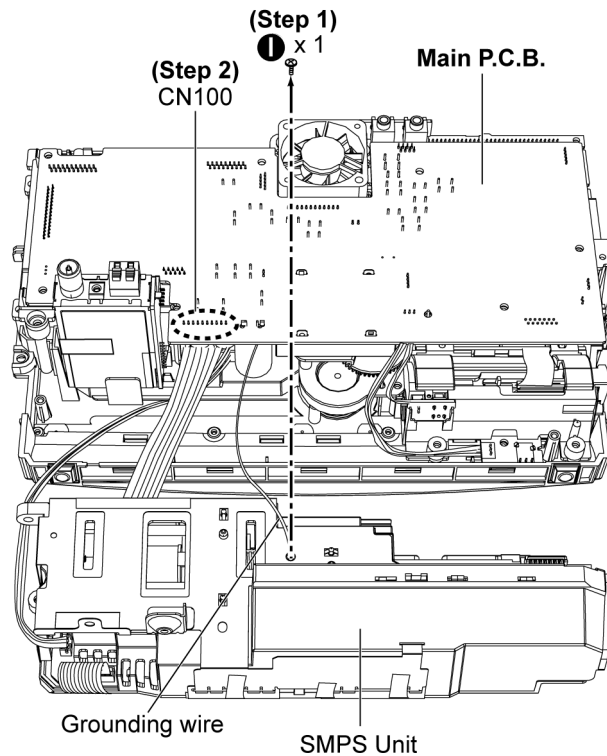
Step 4 : Tilt the Tuner Pack.

Step 5 : Detach 10P FFC cable at the connector (CN607) on the Tuner P.C.B..

Step 6 : Remove the Tuner Pack.

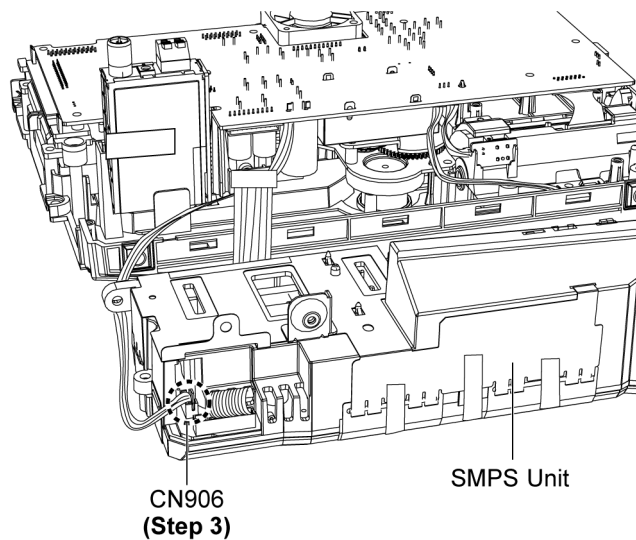
9.13. Disassembly of SMPS Unit

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.

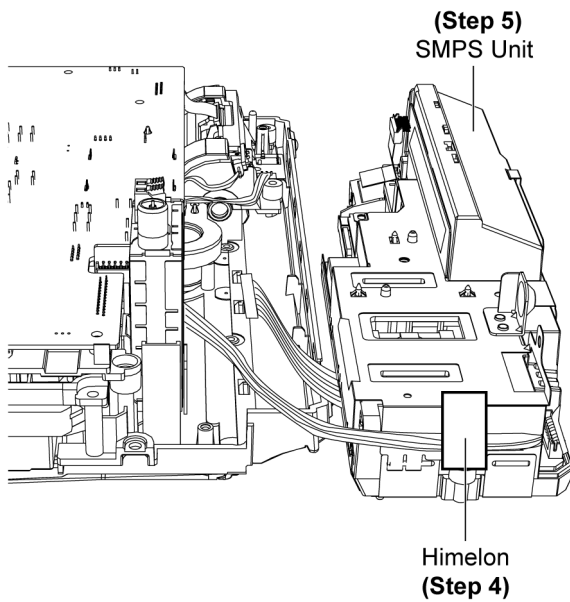


Step 1 : Remove 1 screw.

Step 2 : Detach 10P cable at the connector (CN100) on the Main P.C.B..



Step 3 : Detach 4P cable at the connector (CN906) on the SMPS P.C.B..



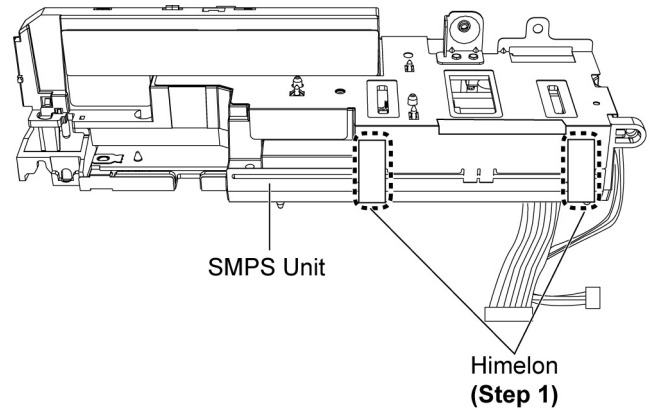
Step 4 : Lift up the himelon.

Step 5 : Remove SMPS Unit.

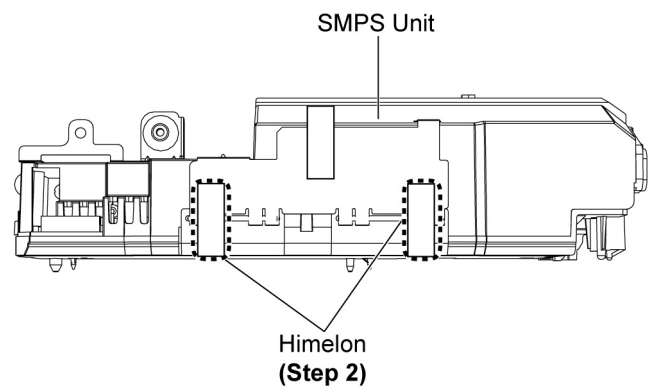
Caution : Replace himelon if it is torn .

9.14. Disassembly of AC IN P.C.B.

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) - (Step 5) of item 9.13.

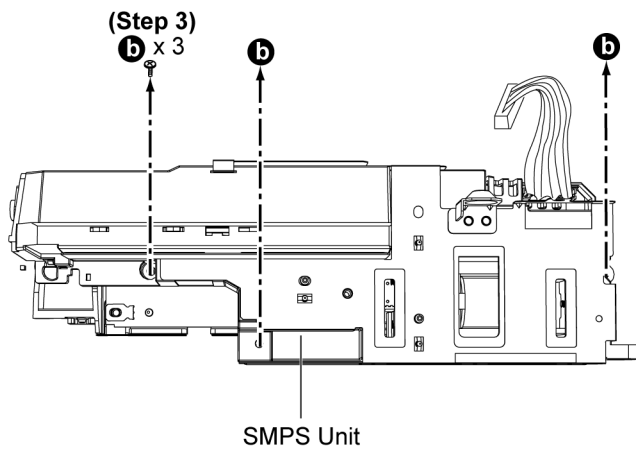


Step 1 : Lift up the himelon.

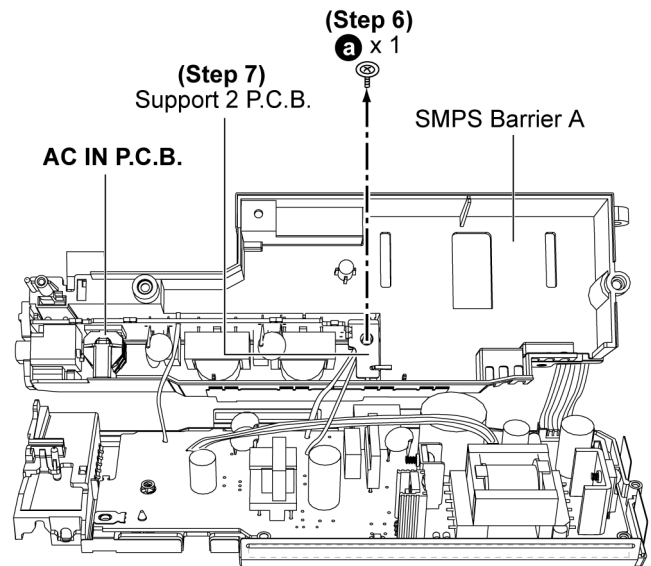


Step 2 : Lift up the himelon.

Caution : Replace himelon if it is torn.

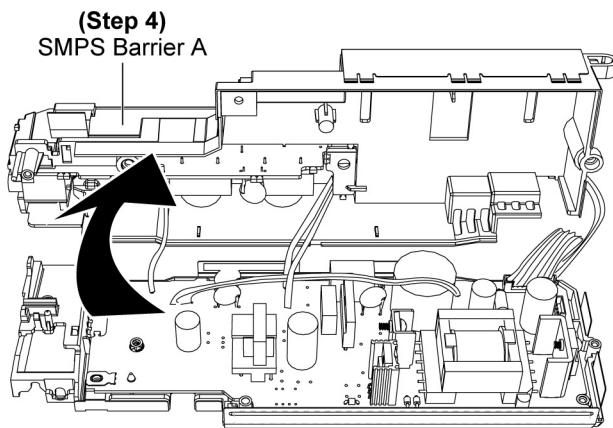


Step 3 : Remove 3 screws.

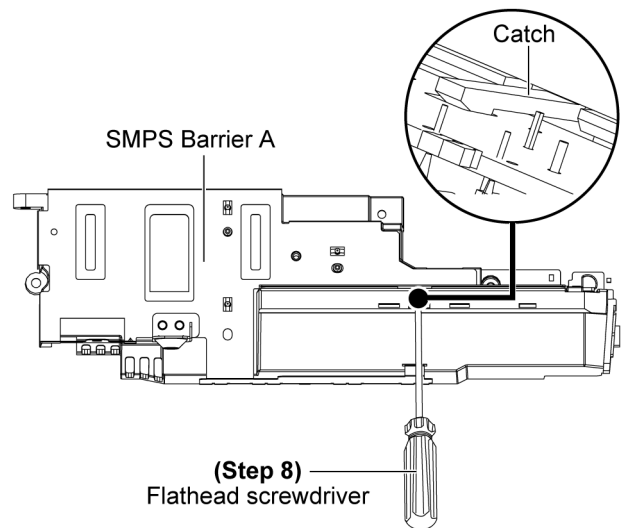


Step 6 : Remove 1 screw.

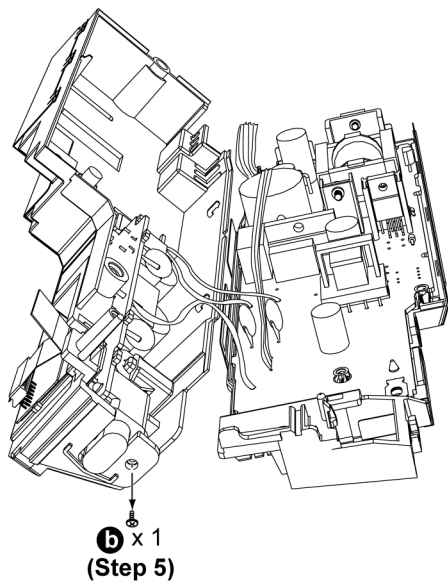
Step 7 : Remove Support 2 P.C.B..



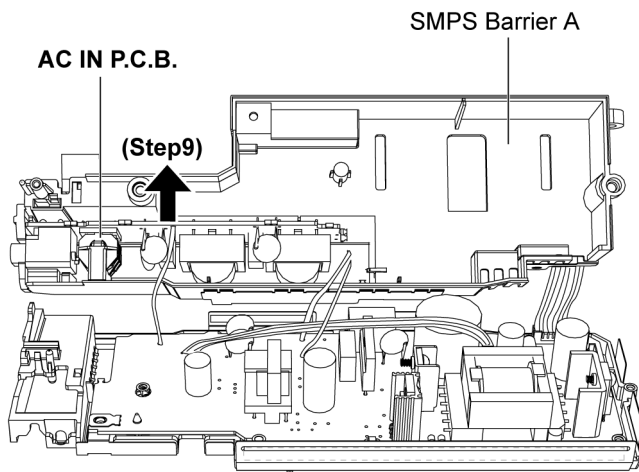
Step 4 : Flip over SMPS Barrier A.



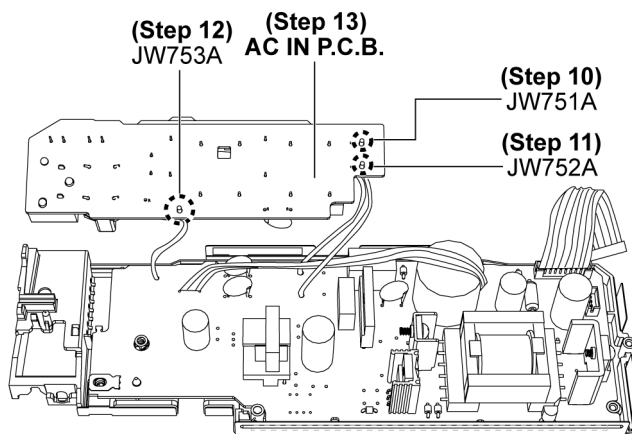
Step 8 : Using flathead screwdriver to release catch.



Step 5 : Remove 1 screw.



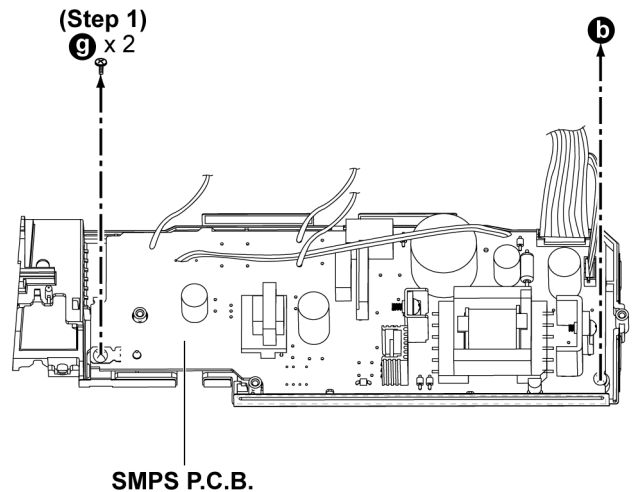
Step 9 : Remove the AC IN P.C.B..



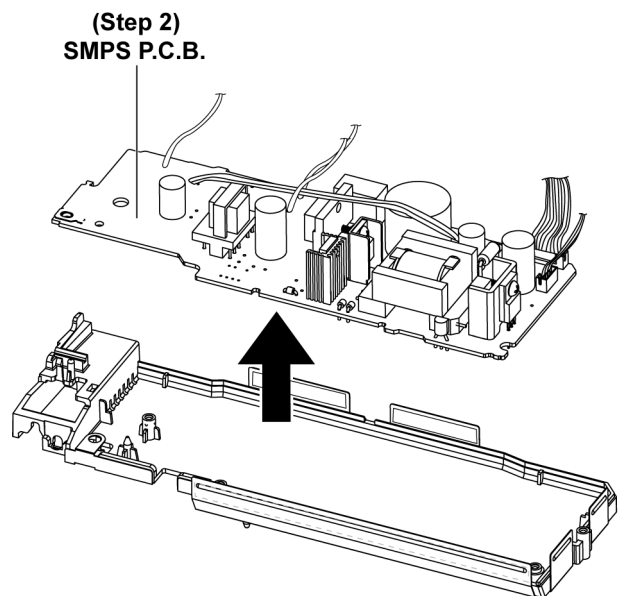
Step 10 : Desolder red wire (JW751A) on the AC IN P.C.B..
Step 11 : Desolder black wire (JW752A) on the AC IN P.C.B..
Step 12 : Desolder blue wire (JW753A) on the AC IN P.C.B..
Step 13 : Remove the AC IN P.C.B..

9.15. Disassembly of SMPS P.C.B.

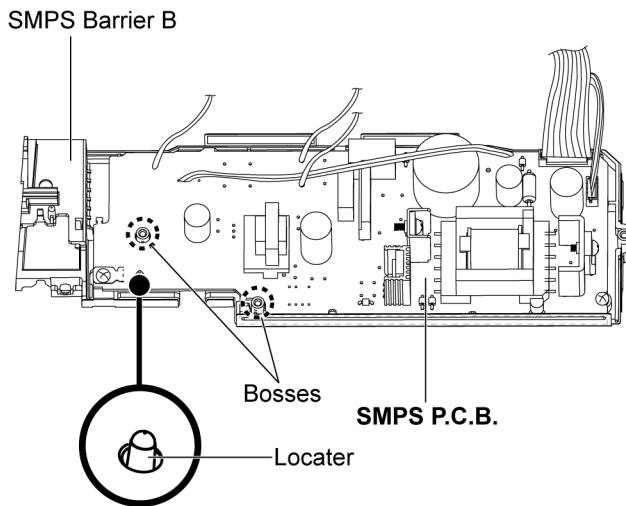
- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) - (Step 5) of item 9.13.
- Follow the (Step 1) - (Step 13) of item 9.14.



Step 1 : Remove 2 screws.



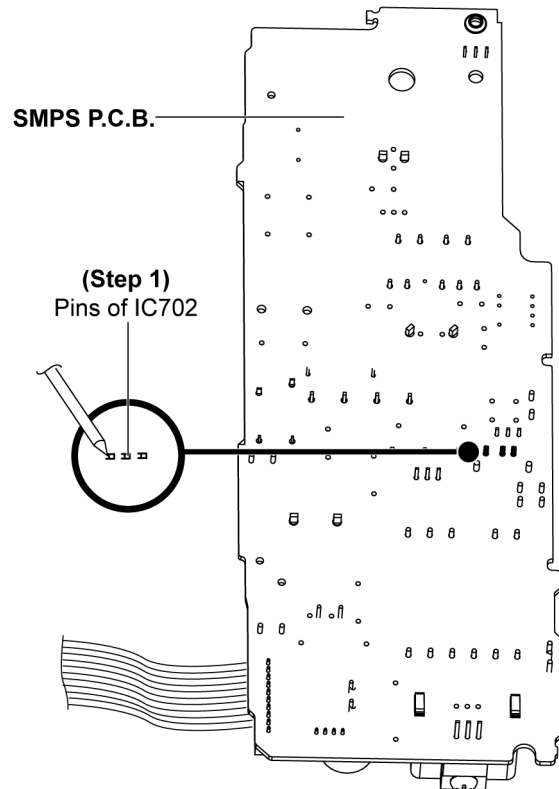
Step 2 : Remove the SMPS P.C.B..



Caution : During assembling ensure the SMPS P.C.B. is seated properly on the locator after assembled.

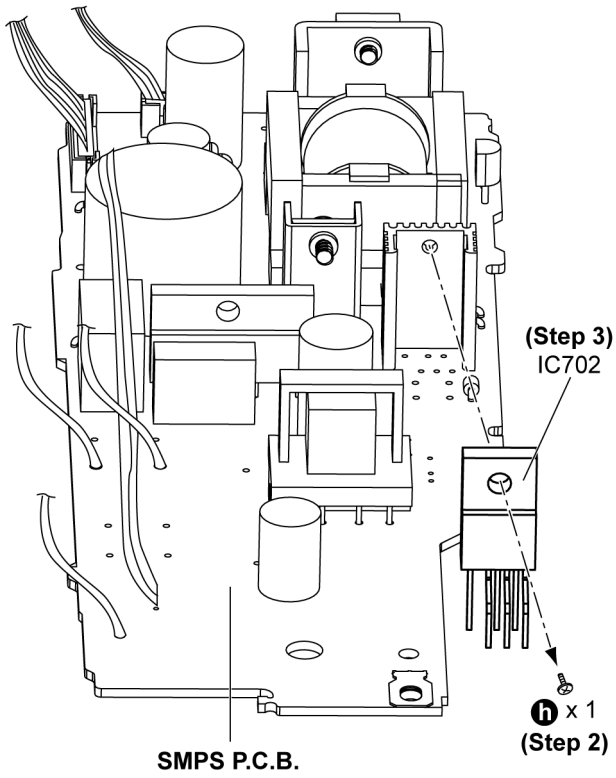
9.16. Replacement of Switching Regulator IC (IC702)

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) - (Step 5) of item 9.13.
- Follow the (Step 1) - (Step 9) of item 9.14.
- Follow the (Step 1) - (Step 2) of item 9.15.



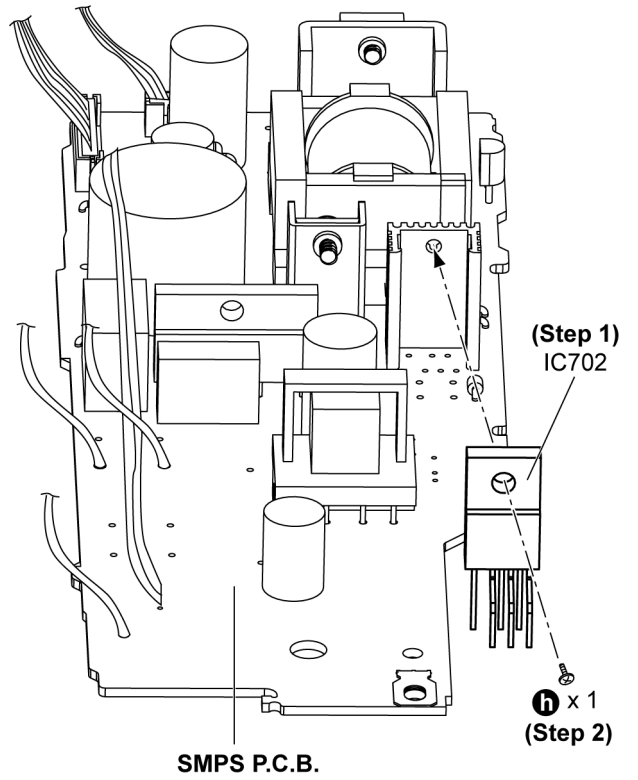
Step 1 : Desolder pins of Switching Regulator IC (IC702) on the solder side of SMPS P.C.B..

• Assembly of Switching Regulator IC (IC702)



Step 2 : Remove 1 screw.

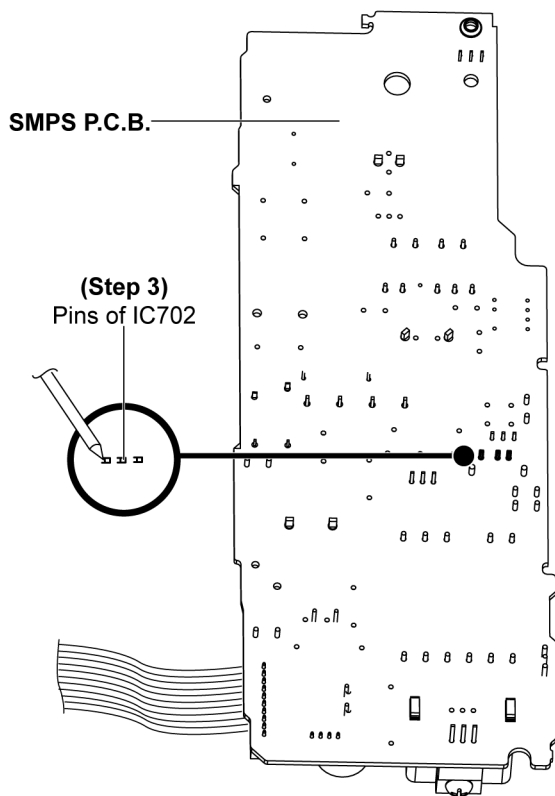
Step 3 : Remove Switching Regulator IC (IC702).



Step 1 : Install Switching Regulator IC (IC702) onto SMPS P.C.B..

Step 2 : Fix the Switching Regulator IC (IC702) onto the heat-sink unit with 1 screw.

Caution : Ensure the pins are inserted & seated properly on the SMPS P.C.B..



Step 3 : Solder pins of the Switching Regulator IC (IC702) on the solder side of SMPS P.C.B..

Caution : Check for solderability of the Switching Regulator IC (IC702).

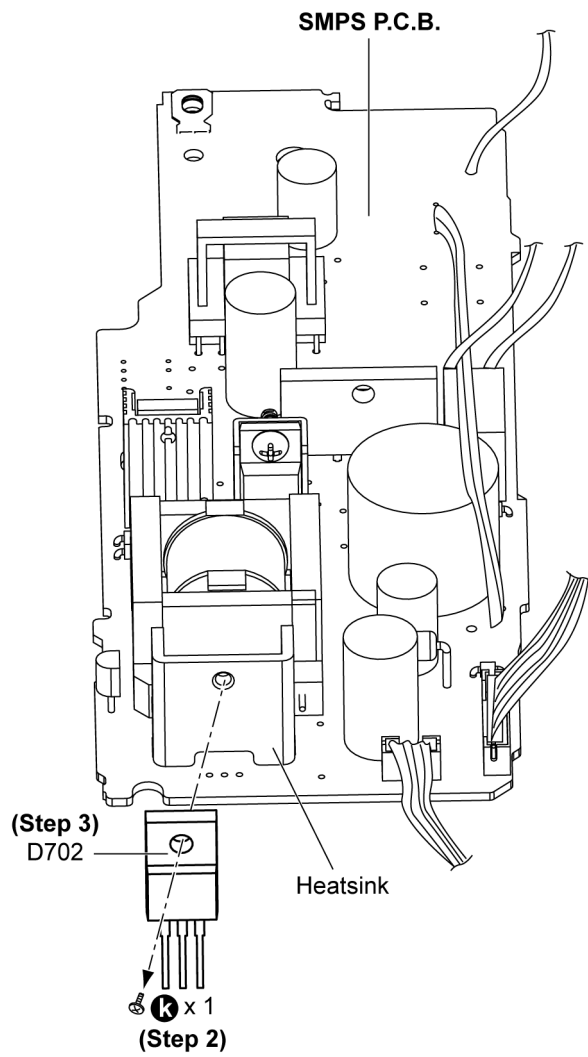
9.17. Replacement of Diode (D702)

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) - (Step 5) of item 9.13.
- Follow the (Step 1) - (Step 9) of item 9.14.
- Follow the (Step 1) - (Step 3) of item 9.15.



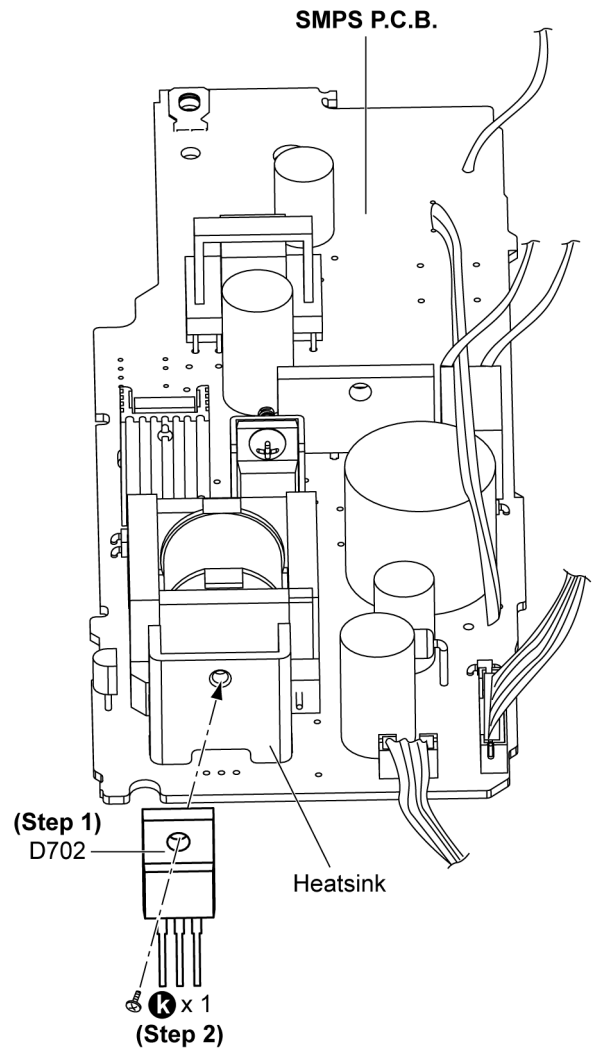
Step 1 : Desolder pins of Diode (D702) on the solder side of SMPS P.C.B..

• Assembly of Diode (D702)



Step 2 : Remove 1 screw.

Step 3 : Remove Diode (D702).



Step 1 : Install Diode (D702) onto SMPS P.C.B..

Step 2 : Fix the Diode (D702) onto the heatsink unit with 1 screw.

Caution : Ensure the pins are inserted & seated properly on the SMPS P.C.B..

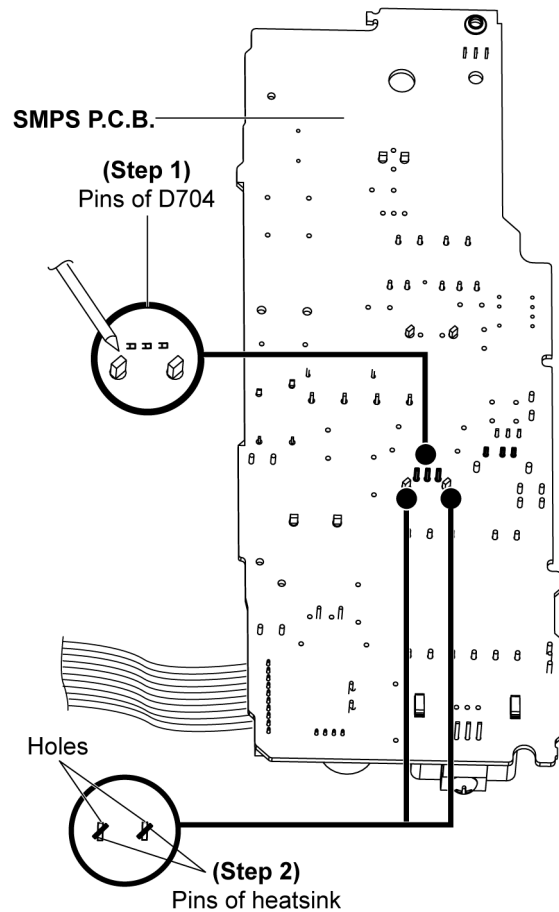


Step 3 : Solder pins of the Diode (D702) on the solder side of SMPS P.C.B..

Caution : Check for solderability of the Diode (D702).

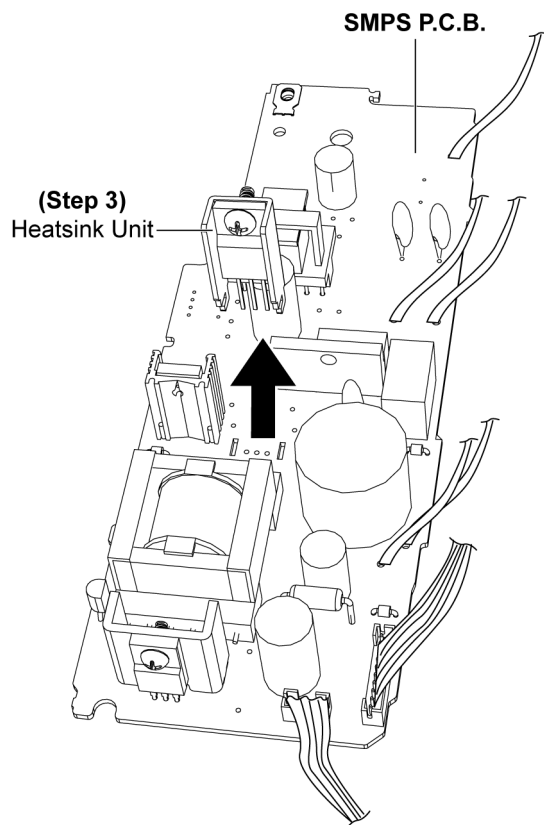
9.18. Replacement of Diode (D704)

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) - (Step 5) of item 9.13.
- Follow the (Step 1) - (Step 9) of item 9.14.
- Follow the (Step 1) - (Step 3) of item 9.15.

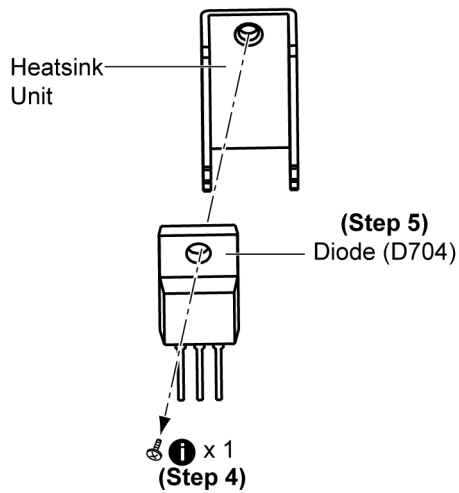


Step 1 : Desolder pins of Diode (D704) on the solder side of SMPS P.C.B..

Step 2 : Twist the pins of heatsink unit.



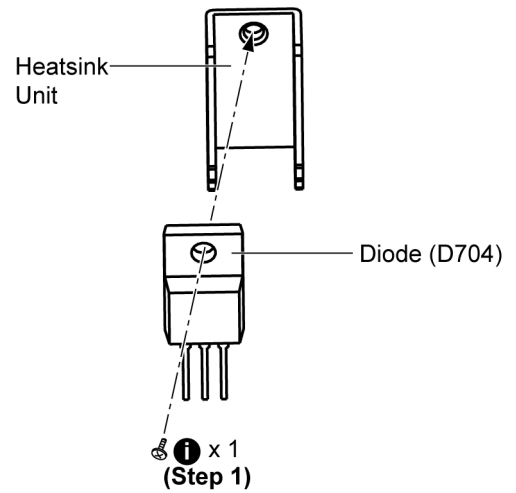
Step 3 : Remove the heatsink unit with Diode (D704) as arrow shown.



Step 4 : Remove 1 screw.

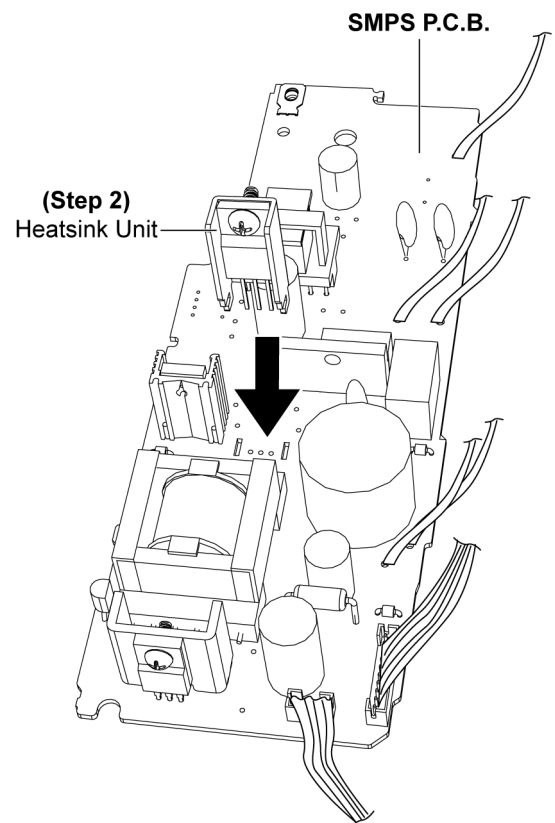
Step 5 : Remove Diode (D704).

• Assembly of Diode (D704)

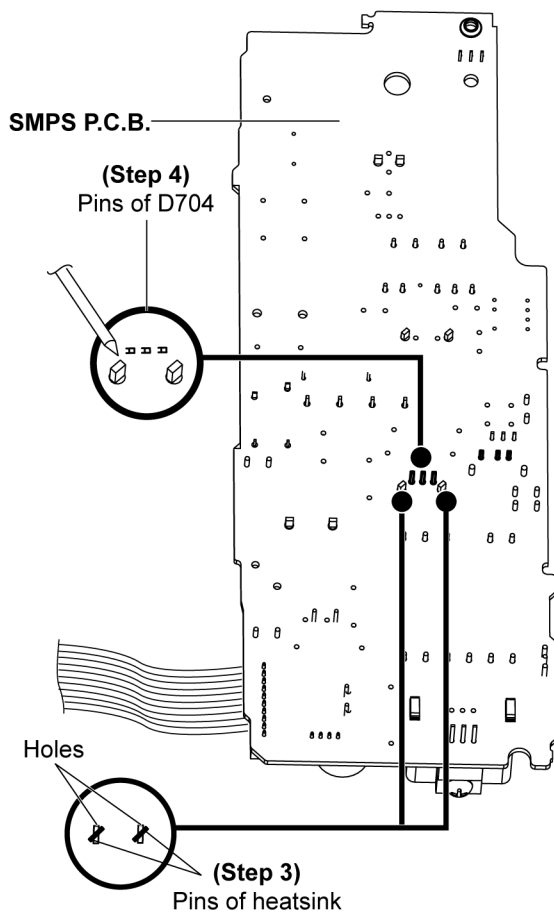


Step 1 : Fix the Diode (D704) onto the heatsink unit with 1 screw.

Caution : Ensure the Diode (D704) is tightly screwed to the heatsink unit.



Step 2 : Fix the heatsink unit with Diode (D704) onto the SMPS P.C.B..



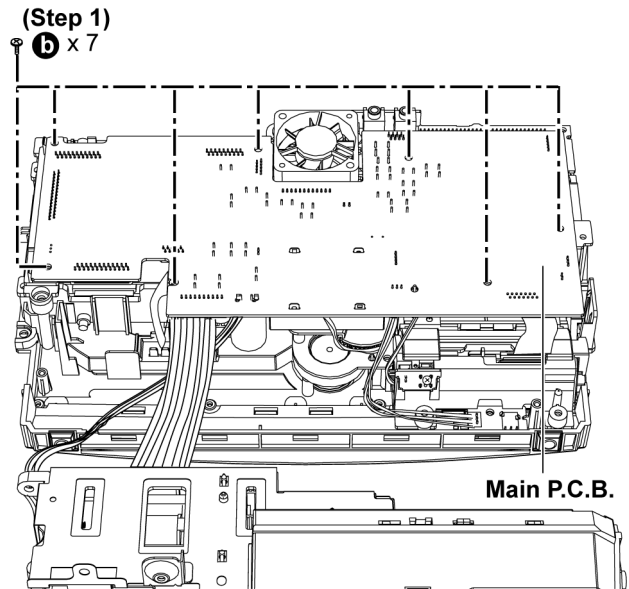
Step 3 : Twist the pins of heatsink unit.

Step 5 : Solder pins of Diode (D704) onto the solder side of the SMPS P.C.B..

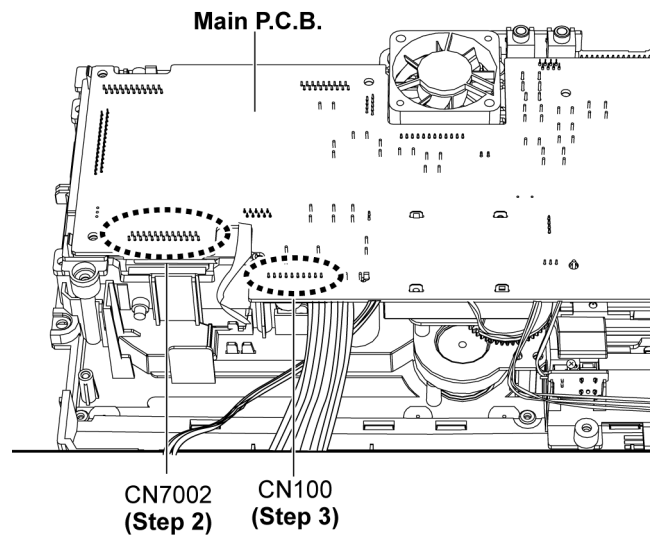
Caution : Ensure that pins of Diode (D702) are properly seated and soldered onto the SMPS P.C.B..

9.19. Disassembly of Main P.C.B.

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 6) of item 9.12.
- Follow the (Step 1) of item 9.13.

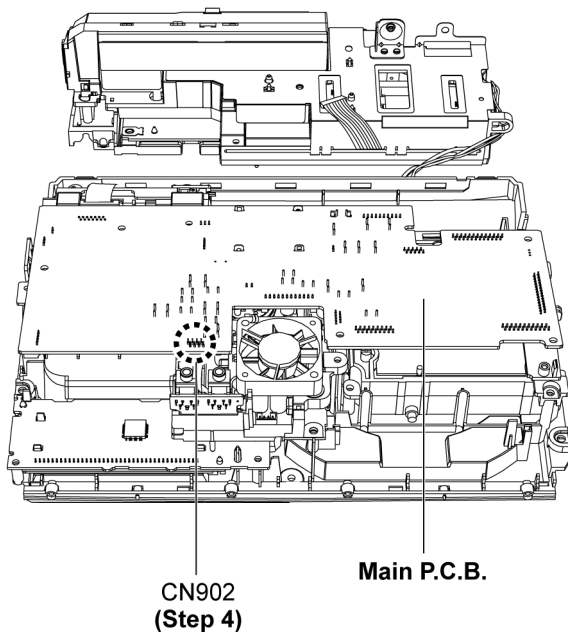


Step 1 : Remove 7 screws.

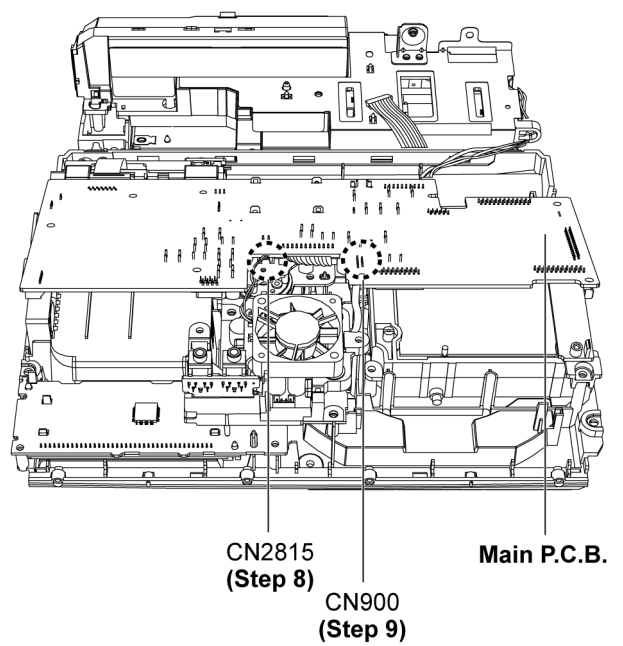


Step 2 : Detach 25P FFC cable at the connector (CN7002) on the Main P.C.B..

Step 3 : Detach 10P cable at the connector (CN100) on the Main P.C.B..

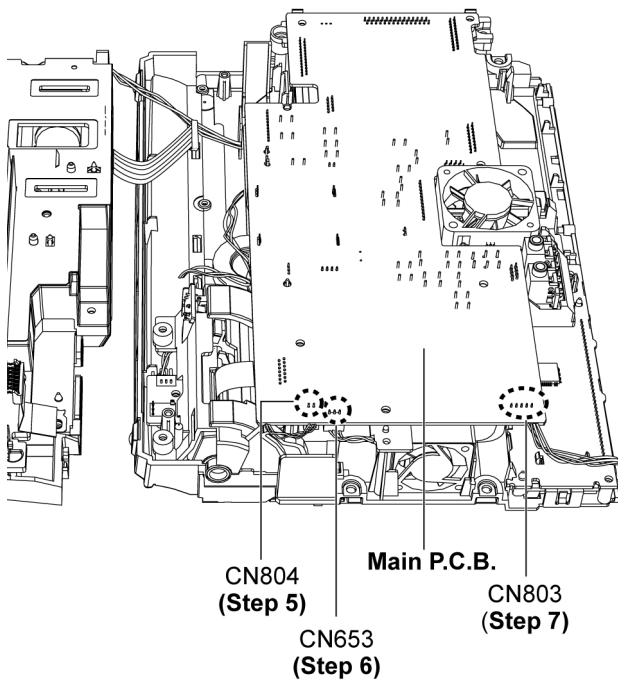


Step 4 : Detach 8P FFC cable at the connector (CN902) on the Main P.C.B..



Step 8 : Detach 2P cable at the connector (CN2815) on the Main P.C.B..

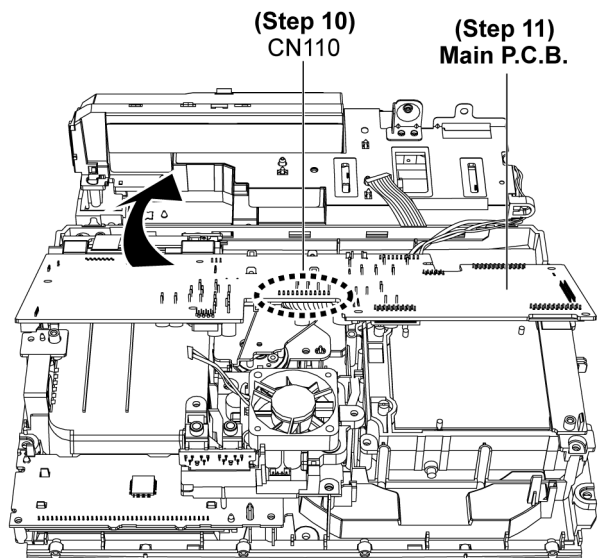
Step 9 : Detach 9P FFC cable at the connector (CN900) on the Main P.C.B..



Step 5 : Detach 2P cable at the connector (CN804) on the Main P.C.B..

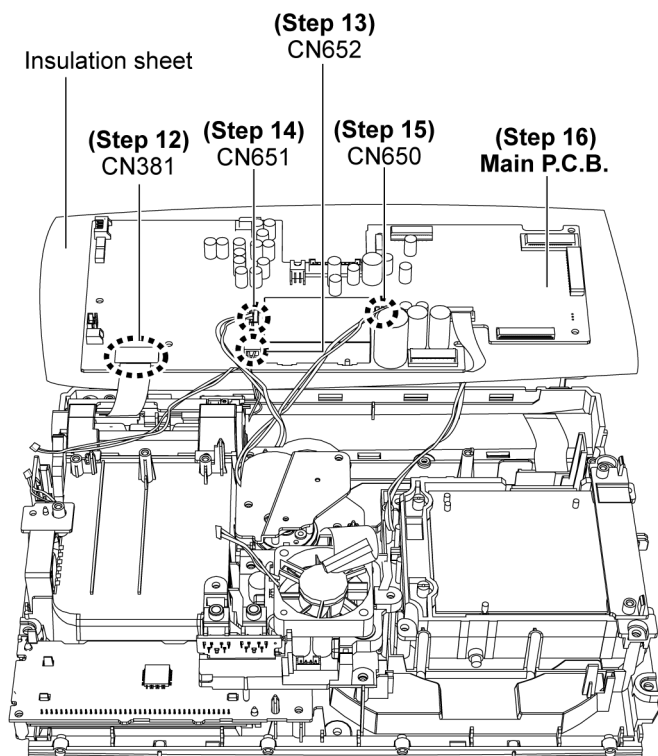
Step 6 : Detach 3P cable at the connector (CN653) on the Main P.C.B..

Step 7 : Detach 5P cable at the connector (CN803) on the Main P.C.B..



Step 10 : Detach 12P cable at the connector (CN110) on the Main P.C.B..

Step 11 : Flip over the Main P.C.B. as arrow shown.



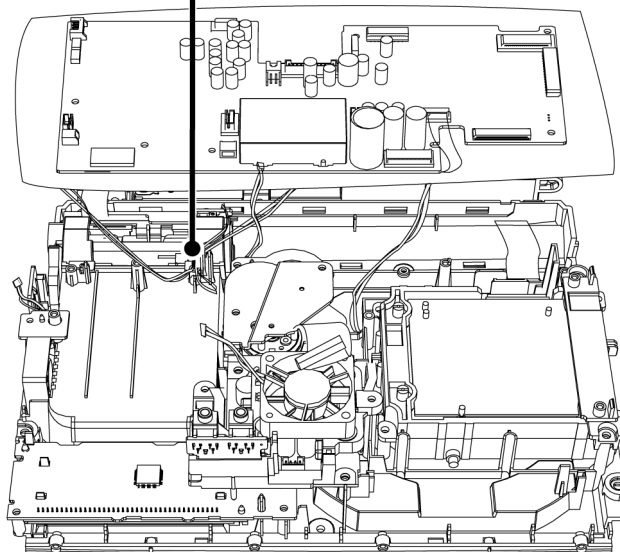
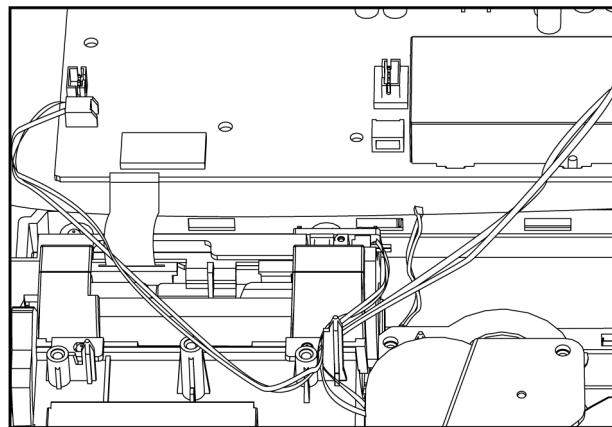
Step 12 : Detach 14P FFC cable at the connector (CN381) on the Main P.C.B..

Step 13 : Detach 3P cable at the connector (CN652) on the Main P.C.B..

Step 14 : Detach 4P cable at the connector (CN651) on the Main P.C.B..

Step 15 : Detach 2P cable at the connector (CN650) on the Main P.C.B..

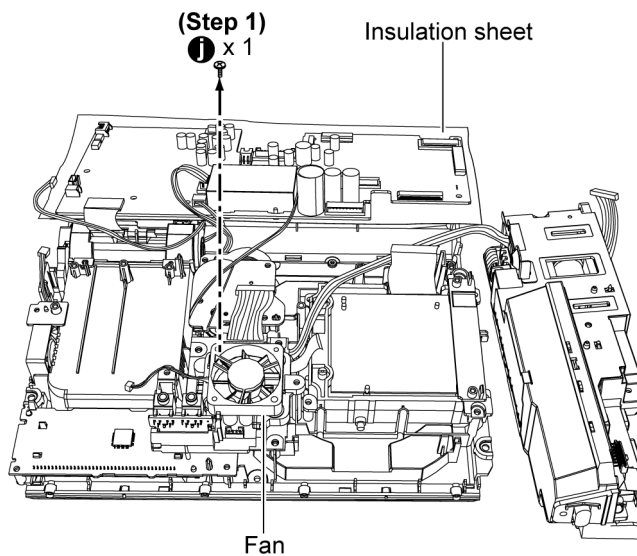
Step 16 : Remove the Main P.C.B..



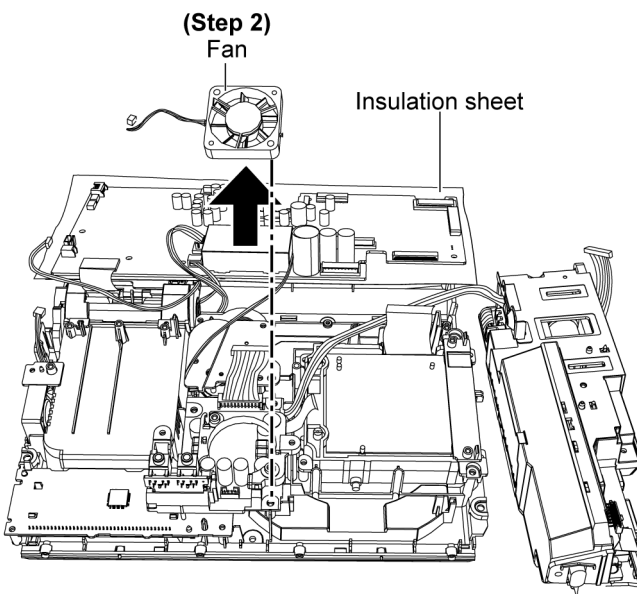
Caution : Ensure that all wires are properly dressed as shown during assembling of the Main P.C.B..

9.20. Disassembly of Fan

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) of item 9.13.
- Follow the (Step 1) - (Step 11) of item 9.19.



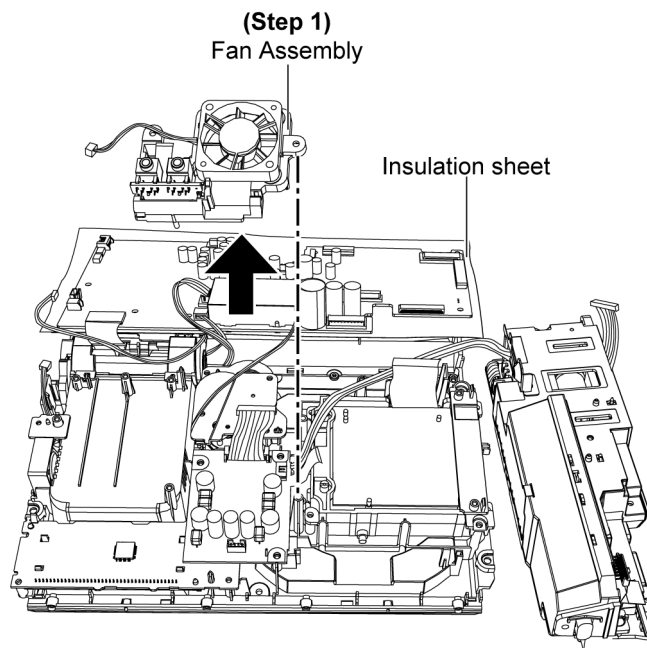
Step 1 : Remove 1 screw.



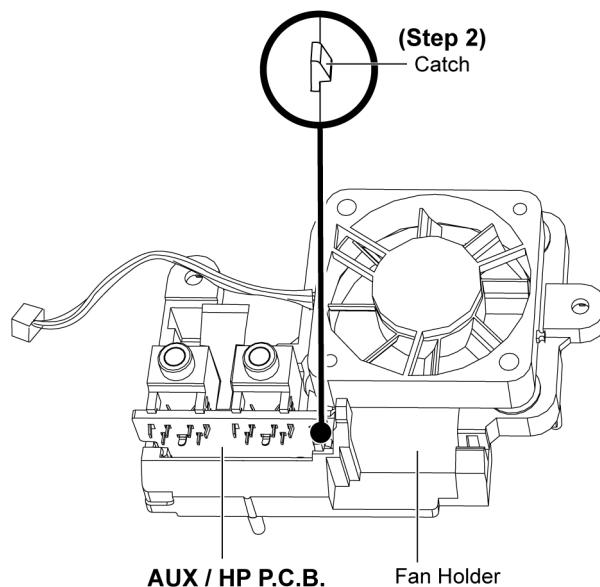
Step 2 : Remove the Fan.

9.21. Disassembly of AUX / HP P.C.B.

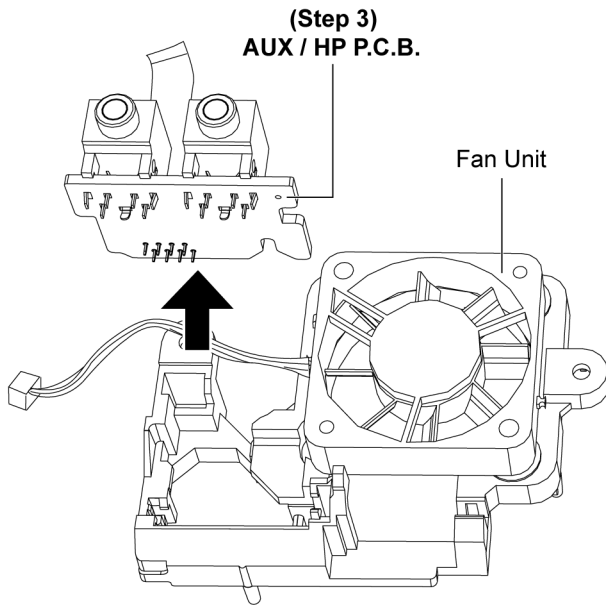
- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) of item 9.13.
- Follow the (Step 1) - (Step 11) of item 9.19.



Step 1 : Remove the Fan Assembly.



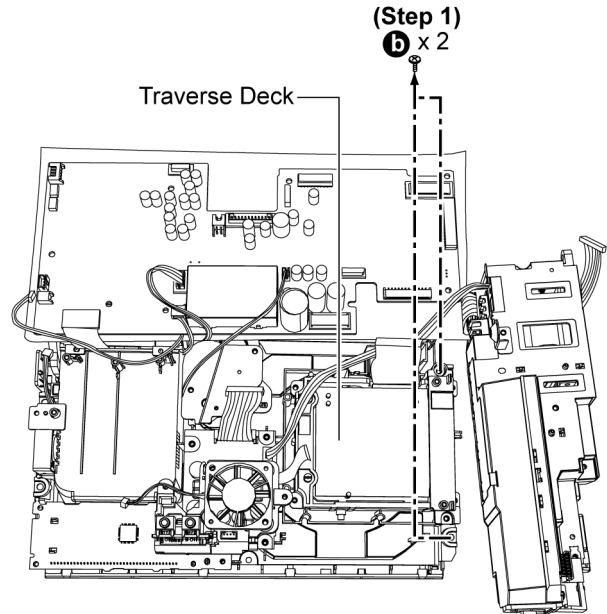
Step 2 : Release the catch on the Chassis unit.
Caution : Ensure the Aux/HP P.C.B. fix onto the Fan Holder.



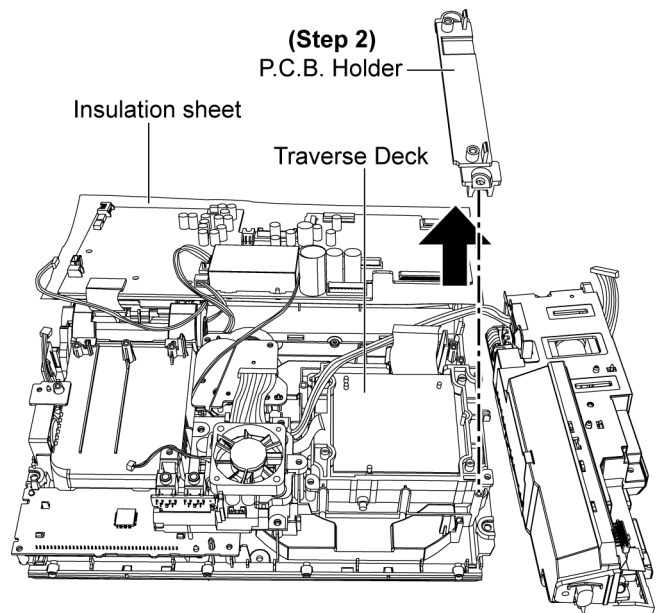
Step 3 : Remove the AUX / HP P.C.B..

9.22. Disassembly of Traverse Deck

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) of item 9.13.
- Follow the (Step 1) - (Step 11) of item 9.19.



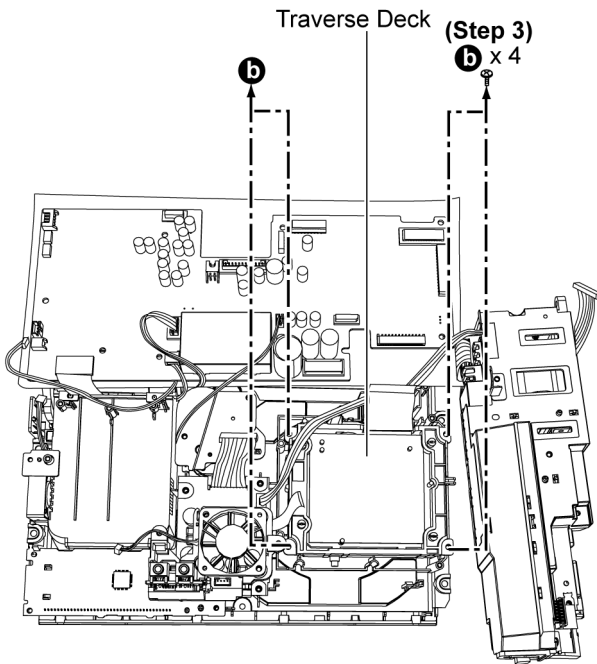
Step 1 : Remove 2 screws.



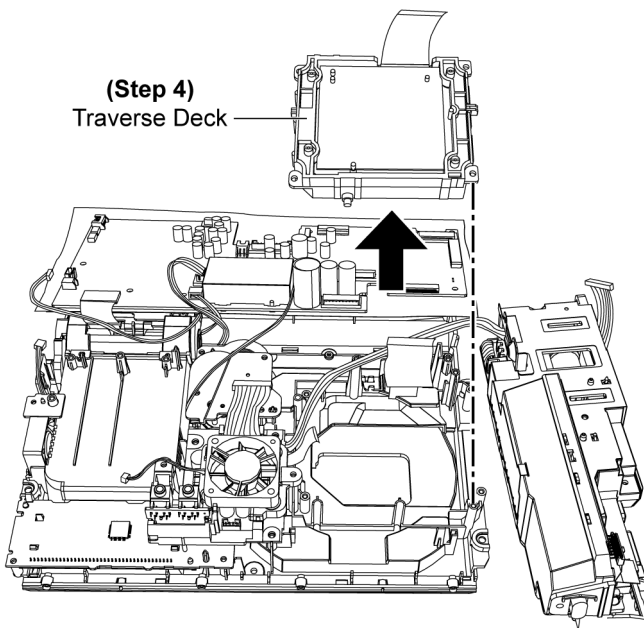
Step 2 : Remove the P.C.B. holder.

9.23. Disassembly of Traverse Cover & Traverse Unit

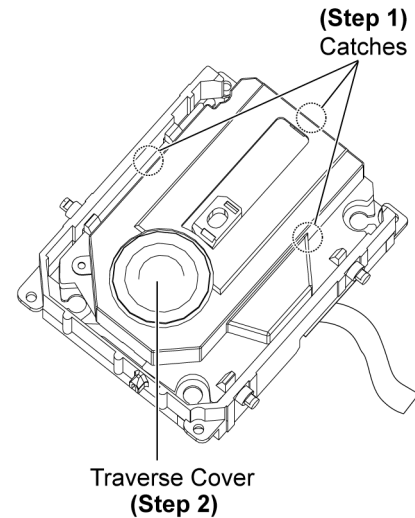
- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) of item 9.13.
- Follow the (Step 1) - (Step 11) of item 9.19.
- Follow the (Step 1) - (Step 4) of item 9.22.



Step 3 : Remove 4 screws.

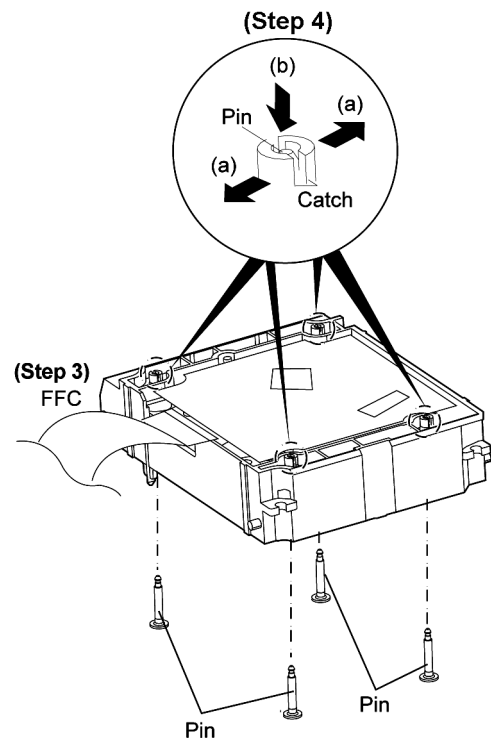


Step 4 : Remove the Traverse Deck.



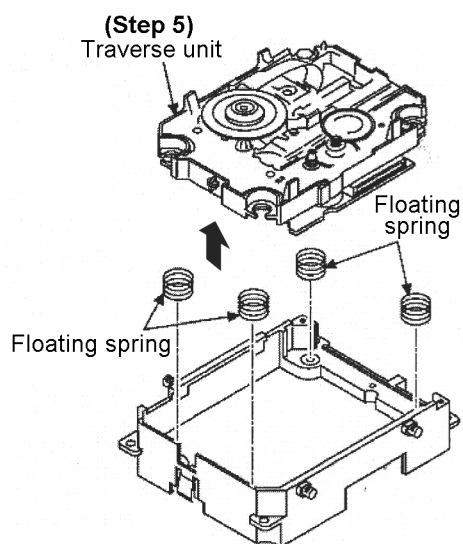
Step 1 : Release 3 catches.

Step 2 : Remove the Traverse Cover.



Step 3 : Pull out FFC cable.

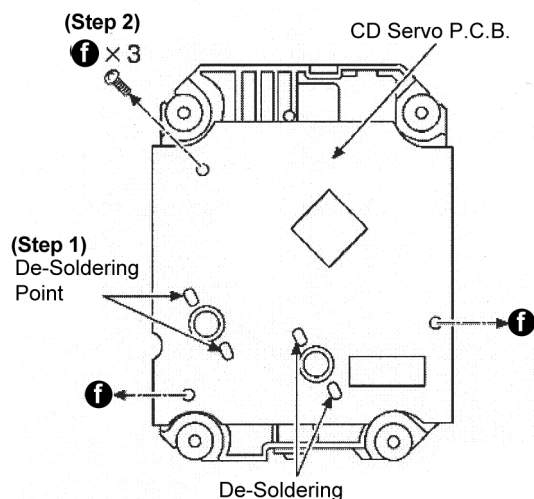
Step 4 : Widening the catch, push the fixed pin in. (a) → (b).



Step 5 : Lift up the traverse unit to remove it.

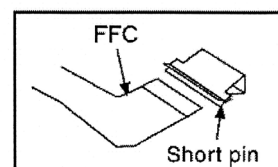
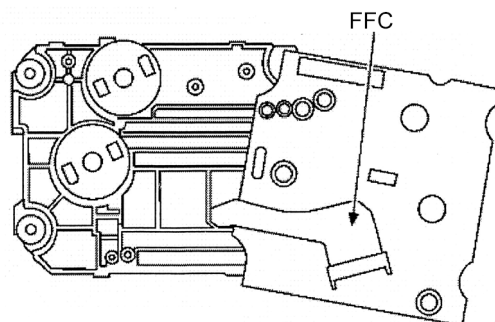
9.24. Disassembly of CD Servo P.C.B.

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) of item 9.13.
- Follow the (Step 1) - (Step 11) of item 9.19.
- Follow the (Step 1) - (Step 4) of item 9.22.
- Follow the (Step 1) - (Step 5) of item 9.23.



Step 1 : Desolder the terminal.

Step 2 : Remove 3 screws.



Step 3 : Flip the CD Servo P.C.B. over to one side.

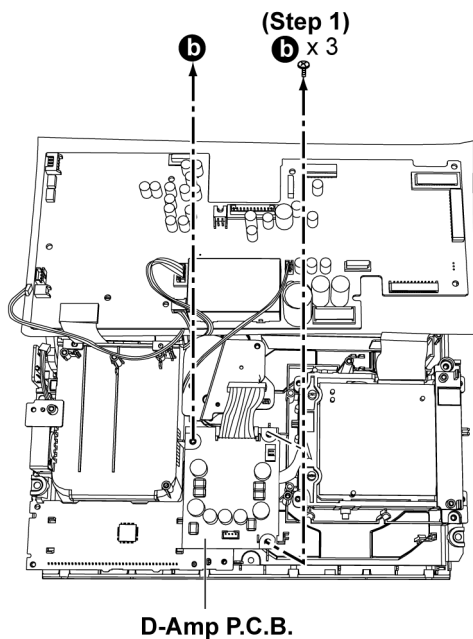
Step 4 : Detach FFC out from the connector.

Step 5 : Attach a short pin to the unit.

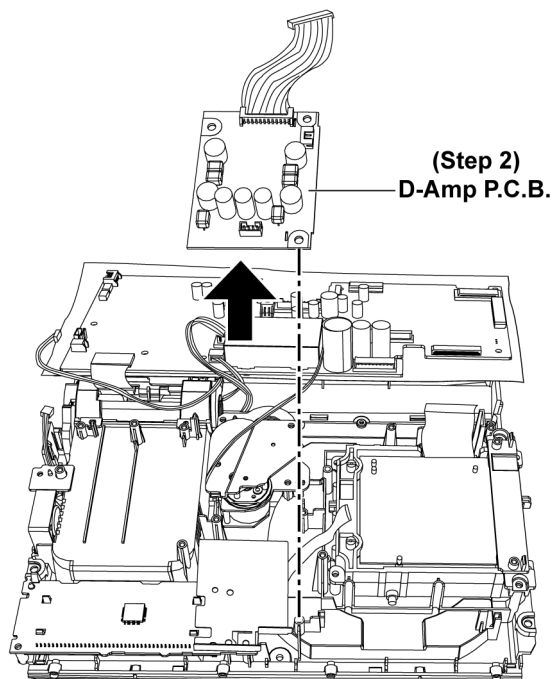
Caution : Insert a short pin into FFC of the optical pickup.
[See "Handling Precautions for traverse unit"]

9.25. Disassembly of D-Amp P.C.B.

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) of item 9.13.
- Follow the (Step 1) - (Step 11) of item 9.19.
- Follow the (Step 1) of item 9.21.



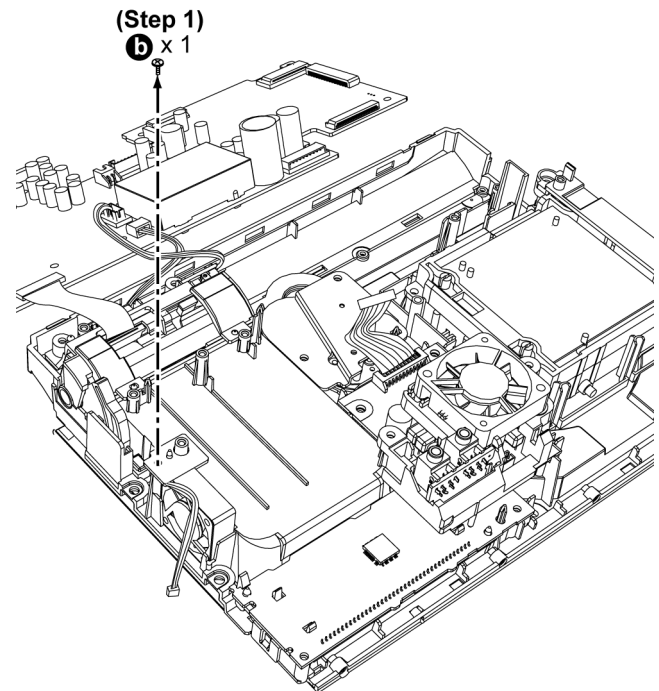
Step 1 : Remove 3 screws.



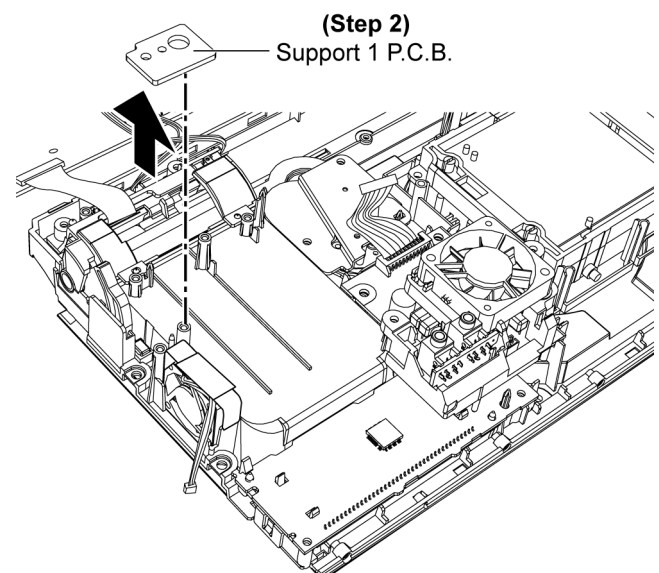
Step 2 : Remove the D-Amp P.C.B..

9.26. Disassembly of Fan Unit (iPod)

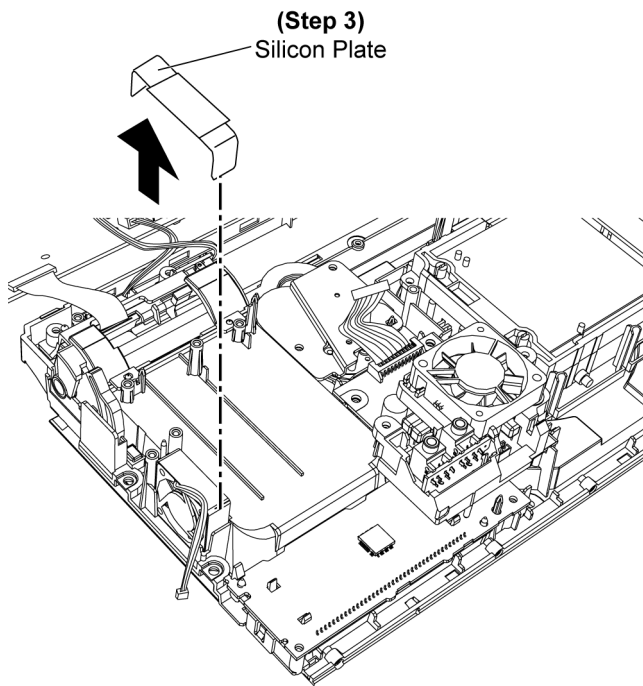
- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) of item 9.13.
- Follow the (Step 1) - (Step 11) of item 9.19.



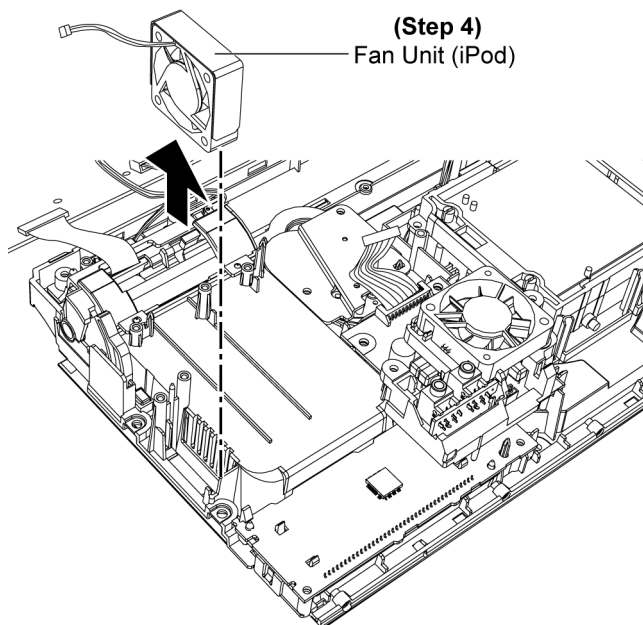
Step 1 : Remove 1 screw.



Step 2 : Remove the support 1 P.C.B..



Step 3 : Remove the silicon plate.

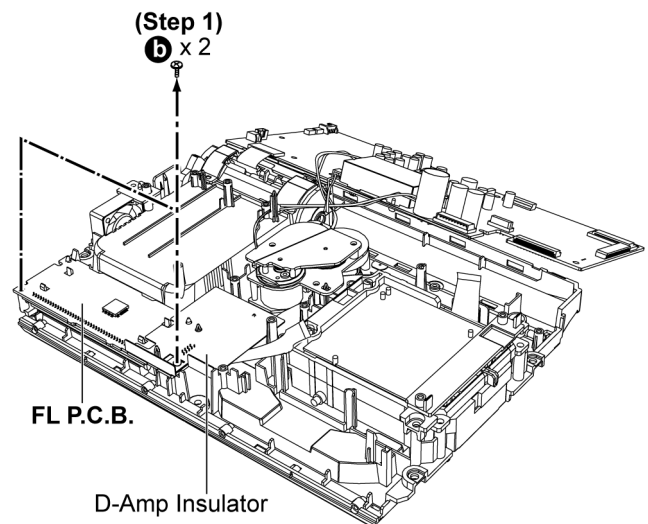


Step 4 : Remove the Fan Unit (iPod).

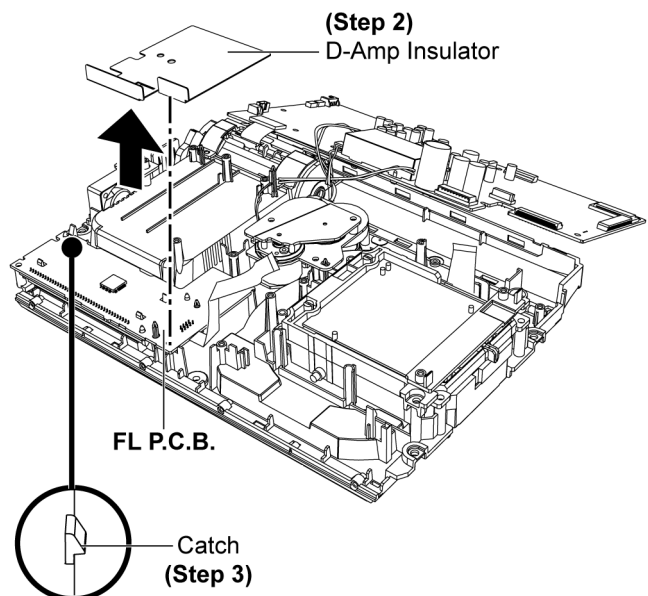
Caution : During assembling ensure the fan unit (iPod) is seated properly.

9.27. Disassembly of FL P.C.B.

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) of item 9.13.
- Follow the (Step 1) - (Step 11) of item 9.19.
- Follow the (Step 1) of item 9.21.
- Follow the (Step 1) - (Step 2) of item 9.25.

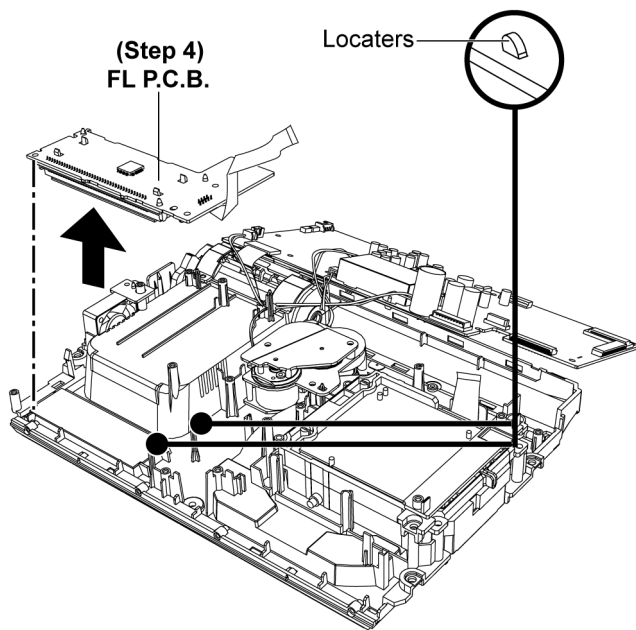


Step 1 : Remove 2 screws.



Step 2 : Remove D-Amp Insulator.

Step 3 : Release the catch on the FL P.C.B..

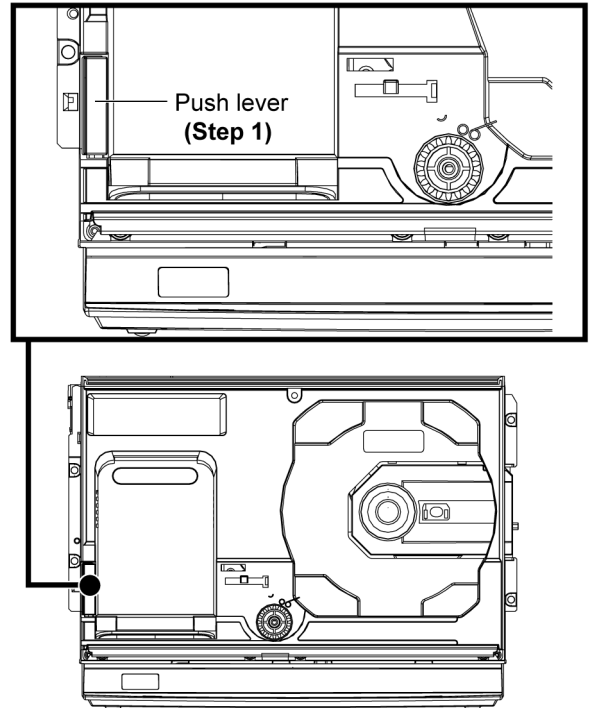


Step 4 : Remove the FL P.C.B..

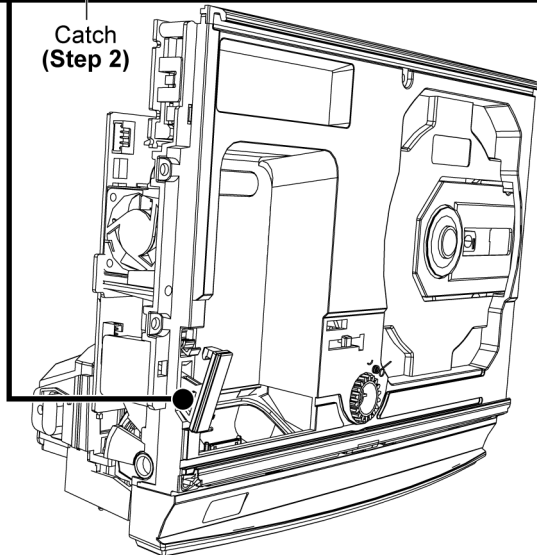
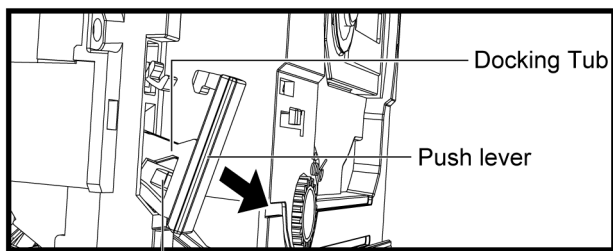
Caution : During assembly ensure the FL P.C.B. is seated properly on the locator.

9.28. Disassembly of iPod P.C.B.

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) - (Step 5) of item 9.13.
- Follow the (Step 1) - (Step 16) of item 9.19.

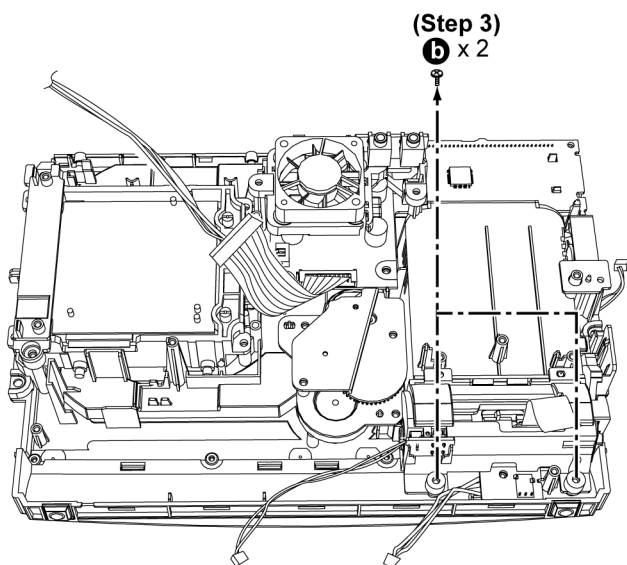


Step 1 : Press the push lever to release it.

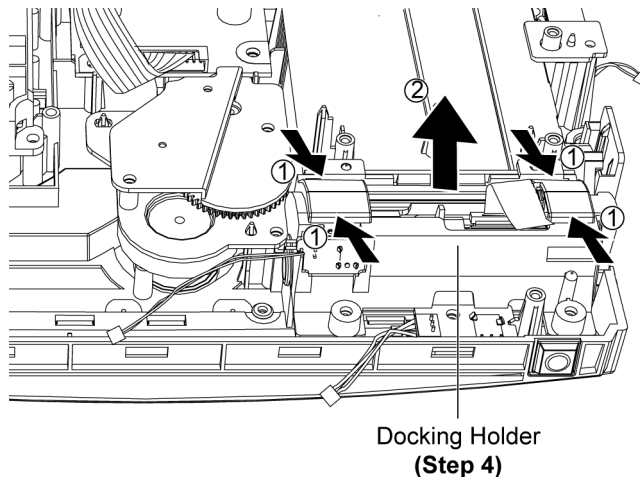


Step 2 : Release catch to remove push lever.

Caution : Do not exert strong force to the Push Lever during removal and assembly.

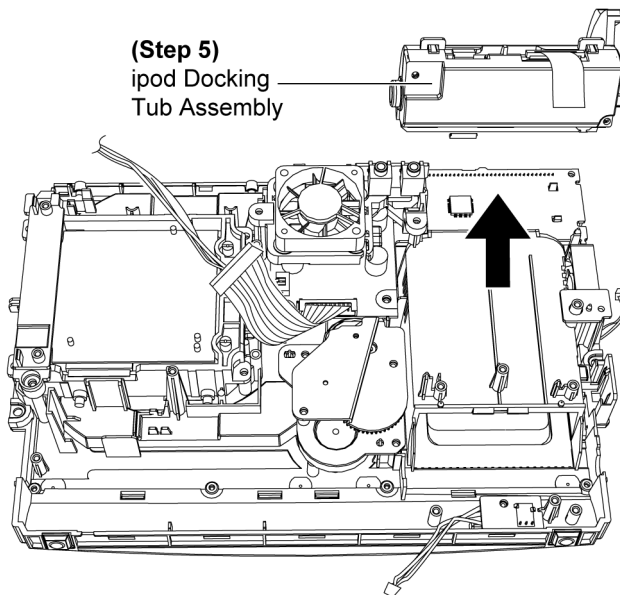


Step 3 : Remove 2 screws.

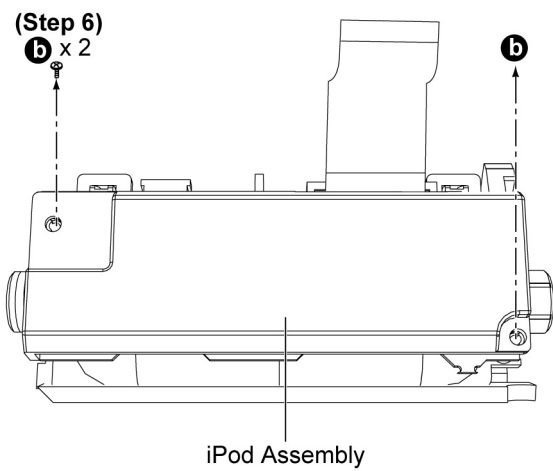


Step 4 : Press and hold the docking holder with gentle force as arrows ① shown to remove the docking holder as arrow ② shown.

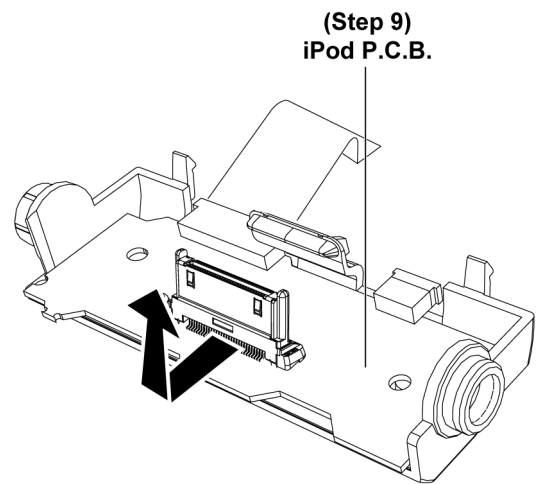
(Step 5)
ipod Docking
Tub Assembly



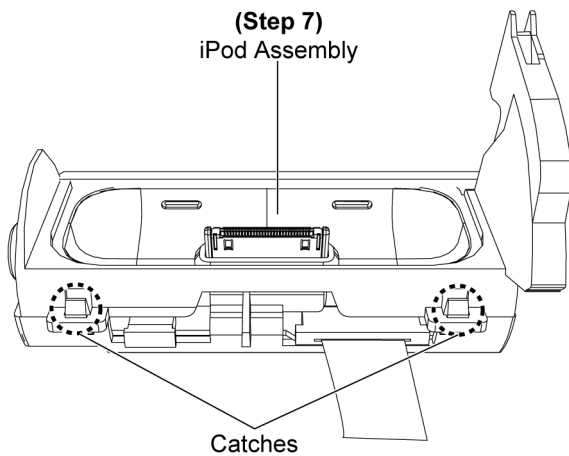
Step 5 : Remove the iPod Docking Tub Assembly.



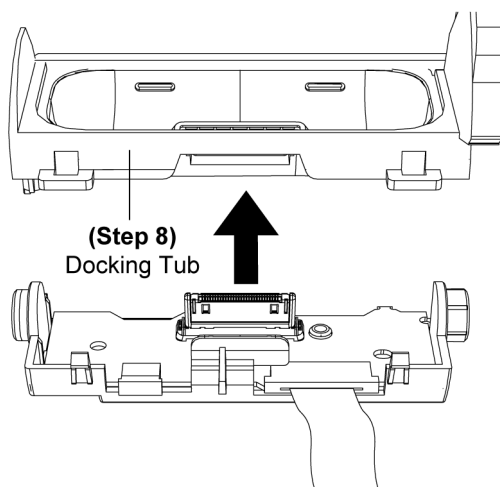
Step 6 : Remove 2 screws.



Step 9 : Remove the iPod P.C.B. as arrow shown.

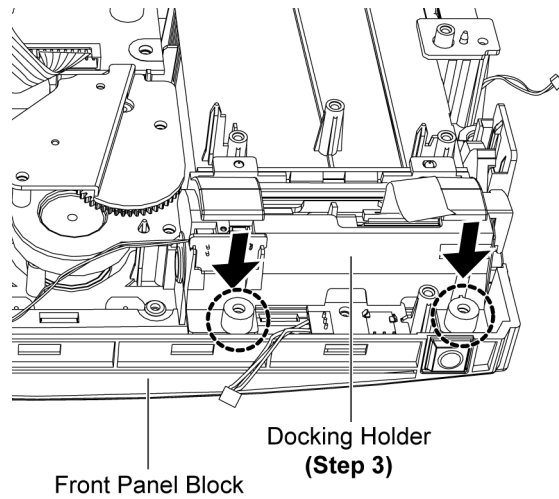
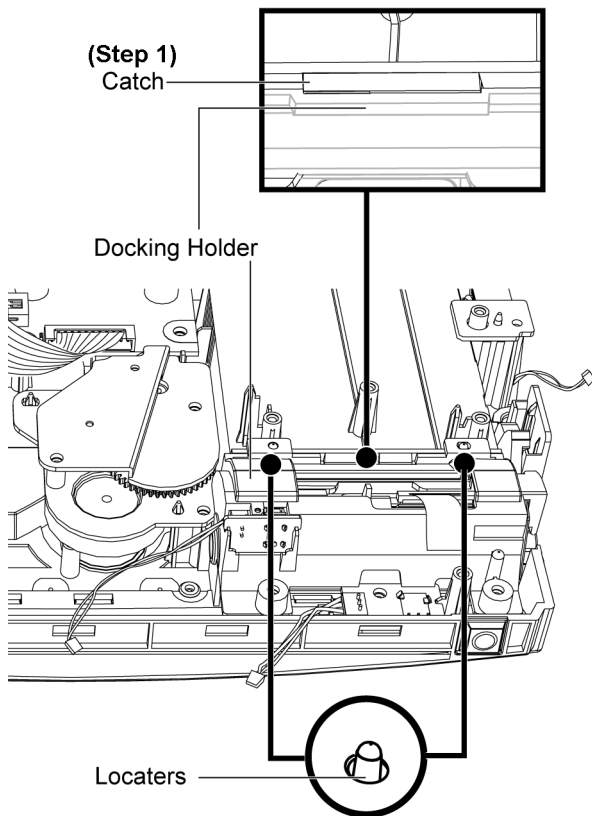


Step 7 : Release the 2 catches on the iPod Assembly.



Step 8 : Remove the docking tub.

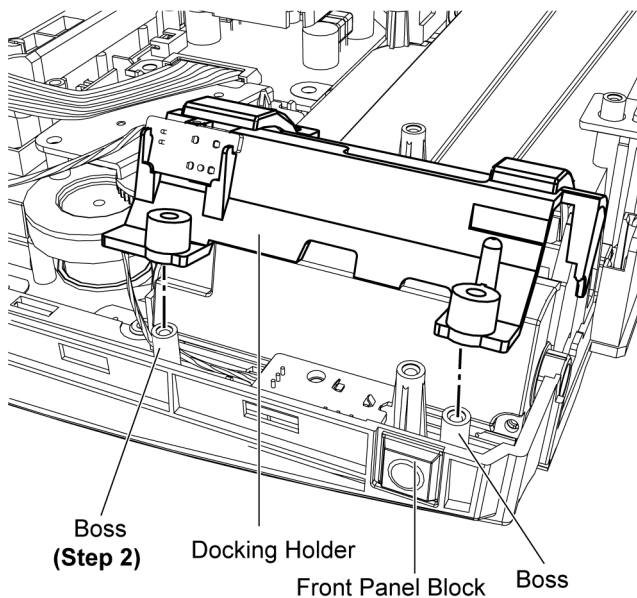
• Assembly of Docking Holder



Step 3 : Fit the docking holder firmly onto the front panel block by pressing as arrow shown.

Step 1 : Place the docking holder underneath the catch.

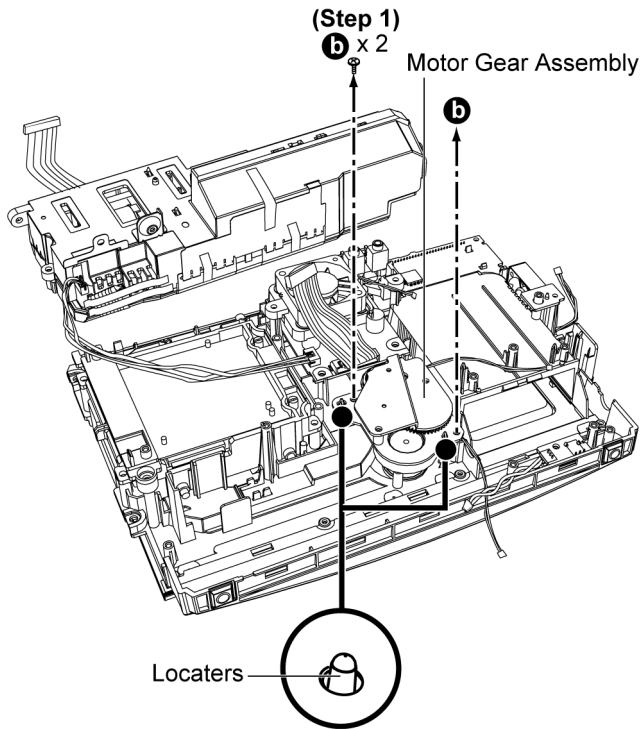
Caution : Using the 2 locators as guides, ensure that the docking holder is properly located.



Step 2 : Align the docking holder to the 2 bosses on the front panel block.

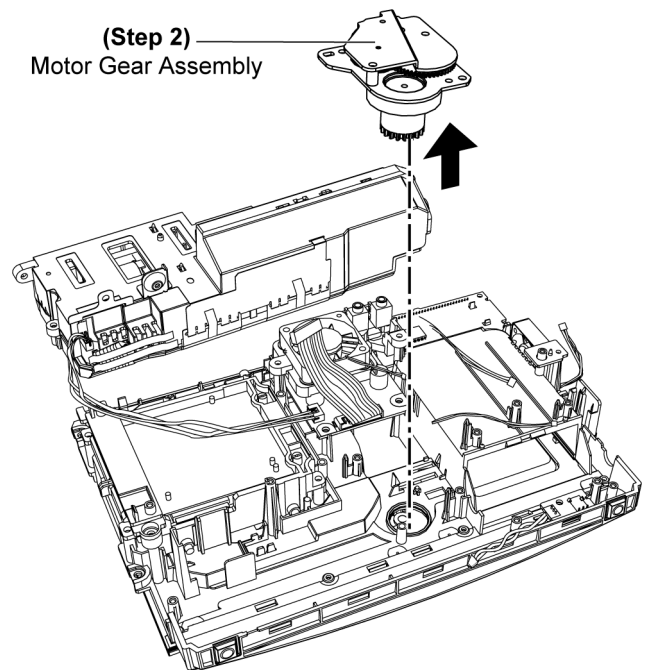
9.29. Disassembly of Motor P.C.B.

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) of item 9.13.
- Follow the (Step 1) - (Step 16) of item 9.19.
- Follow the (Step 1) - (Step 5) of item 9.28.

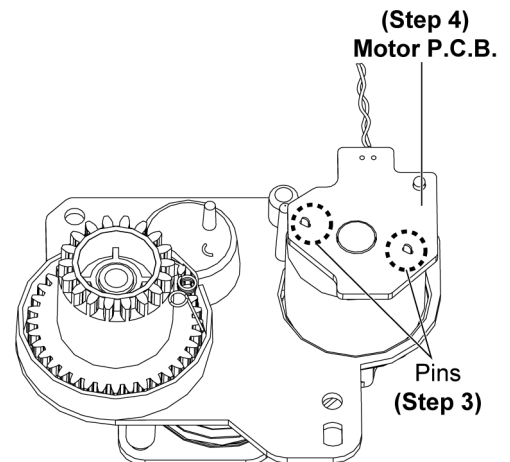


Step 1 : Remove 2 screws.

Caution : Ensure the Motor Gear Assembly is seated properly on the locator after assembled.



Step 2 : Remove the Motor Gear Assembly.

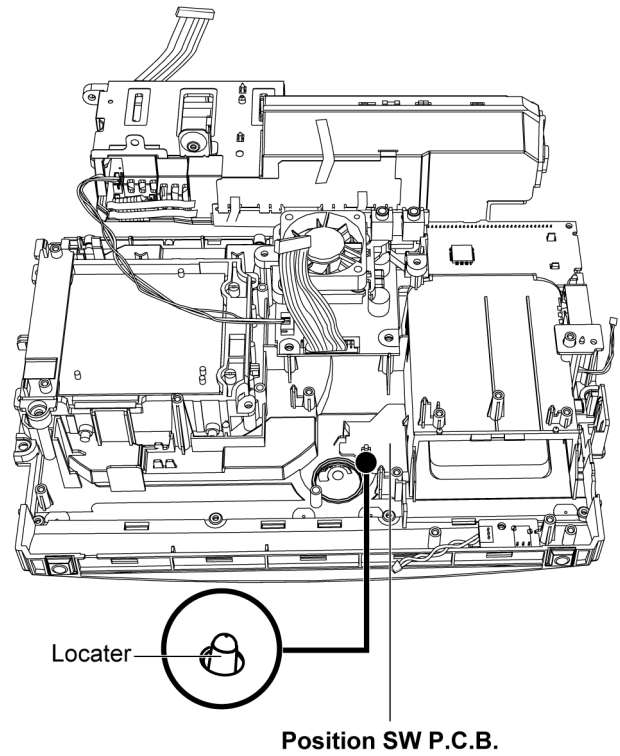
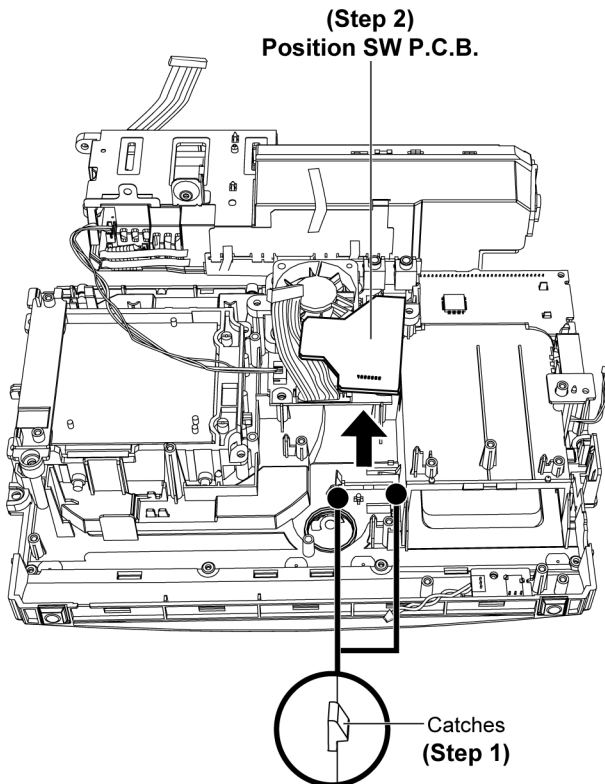


Step 3 : Desolder pins of the Motor P.C.B..

Step 4 : Remove the Motor P.C.B..

9.30. Disassembly of Position SW P.C.B.

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) of item 9.13.
- Follow the (Step 1) - (Step 16) of item 9.19.
- Follow the (Step 1) - (Step 5) of item 9.28.
- Follow the (Step 1) - (Step 2) of item 9.29.



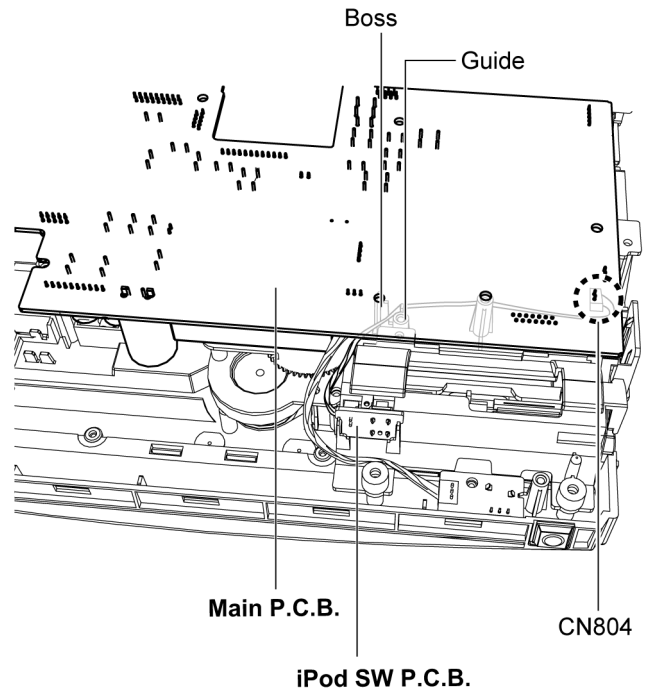
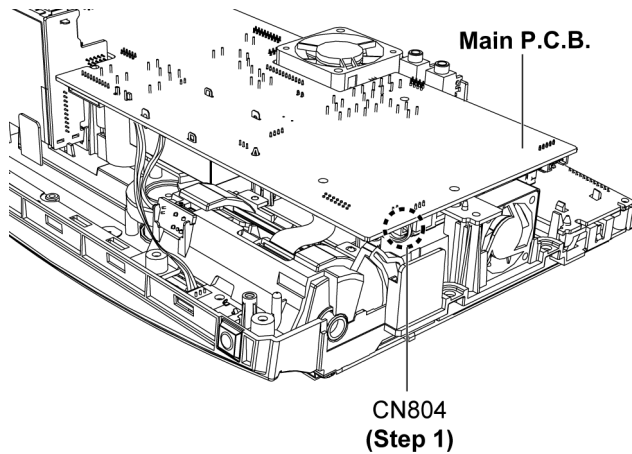
Caution : During assembly ensure the Position SW P.C.B is seated properly on the locator.

Step 1 : Release the 2 catches.

Step 2 : Remove the Position SW P.C.B..

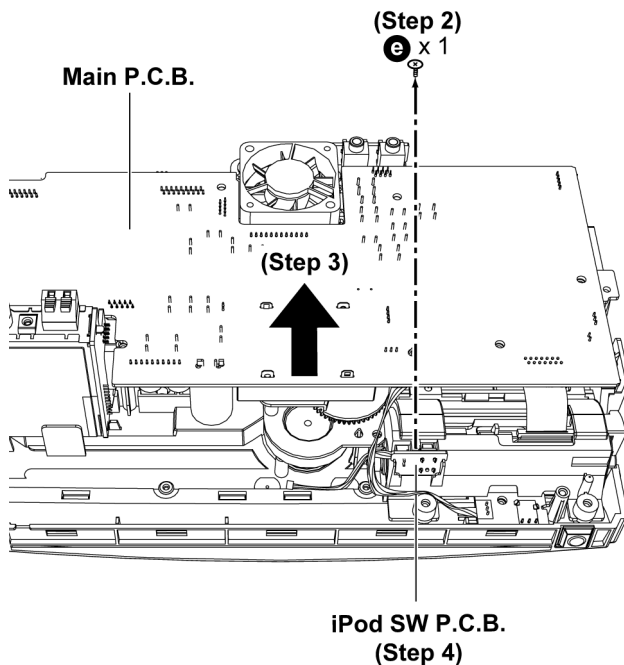
9.31. Disassembly of iPod SW P.C.B.

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) - (Step 5) of item 9.13.
- Follow the (Step 1) of item 9.19.



Caution : Ensure that the cable is placed between the boss and the guide underneath the Main P.C.B..

Step 1 : Detach 2P cable at the connector (CN804) on the Main P.C.B..



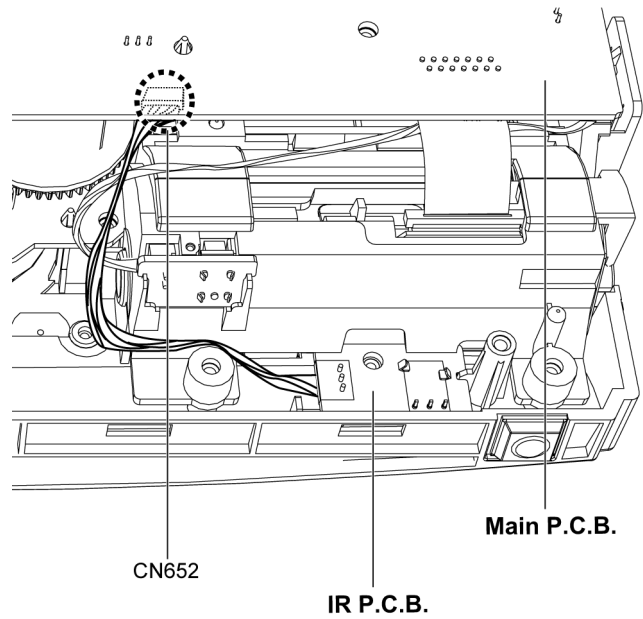
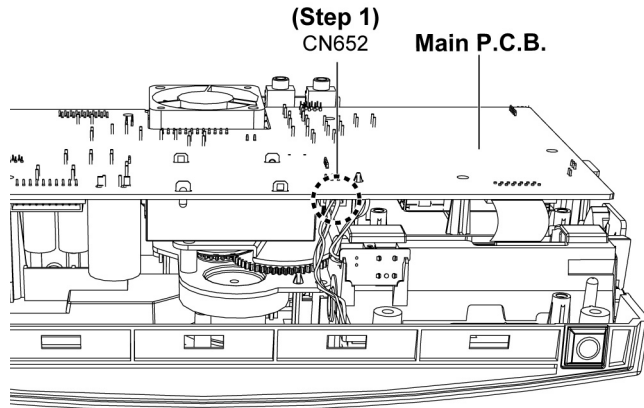
Step 2 : Remove 1 screw.

Step 3 : Lift up the Main P.C.B. slightly.

Step 4 : Remove the iPod SW P.C.B..

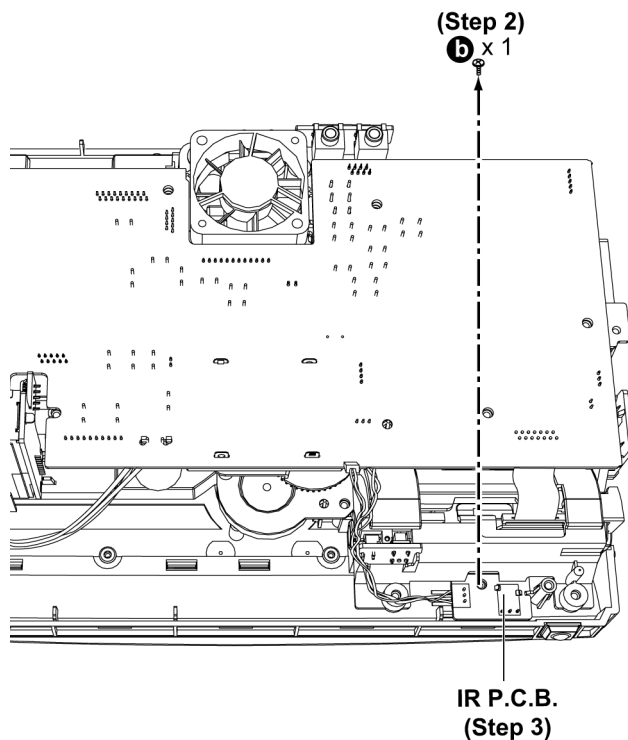
9.32. Disassembly of IR P.C.B.

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) - (Step 5) of item 9.13.



Caution : During assembly of the IR P.C.B., connect 3P cable to the connector (CN652) on the Main P.C.B. and dress the cable as shown.

Step 1 : Detach 3P cable at the connector (CN652) on the Main P.C.B..



Step 2 : Remove 1 screw.

Step 3 : Remove the IR P.C.B..

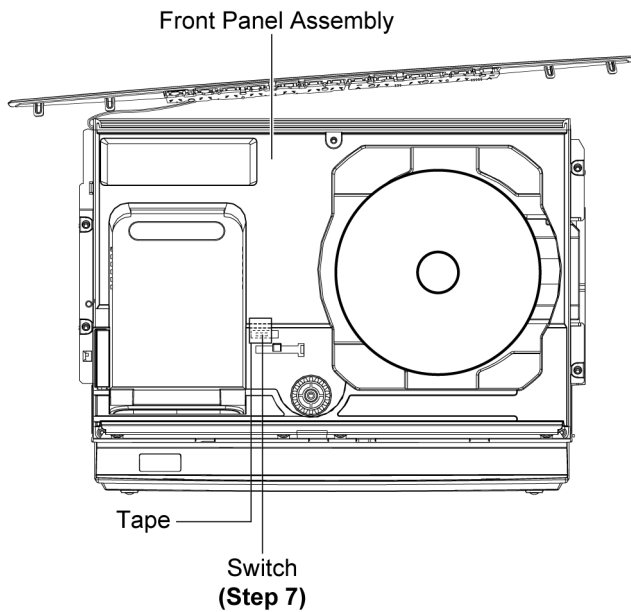
10 Service Position

Note: For description of the disassembly procedures, see the Section 9

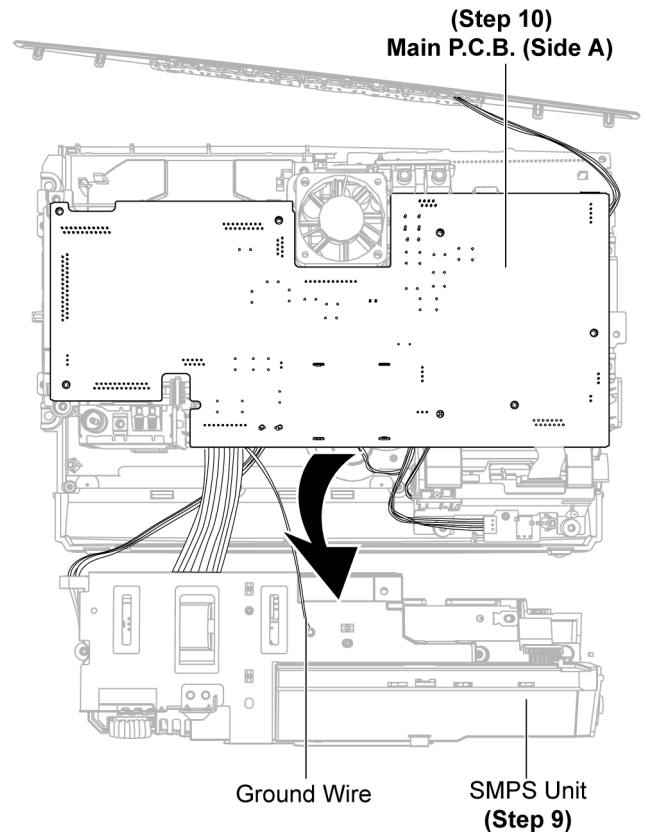
10.1. Checking and Repairing Main P.C.B.

• Checking & Repairing Main P.C.B. (Side A)

- Step 1 : Remove CD Door Unit.
- Step 2 : Remove Net Frame.
- Step 3 : Remove Top Ornament.
- Step 4 : Remove Bottom Ornament.
- Step 5 : Remove Front Panel Block.
- Step 6 : Insert a CD into the CD tray.



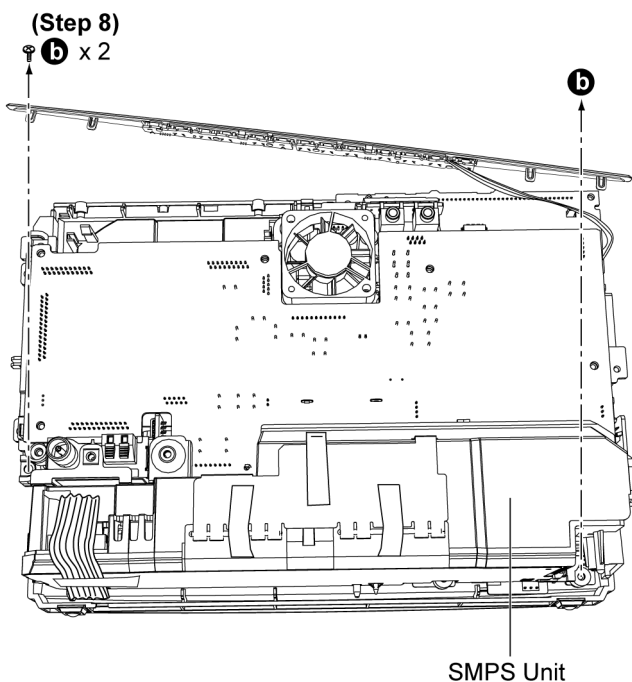
Step 7 : Use tape to keep the Switch depressed.



Step 9 : Lift up and flip over the SMPS Unit.

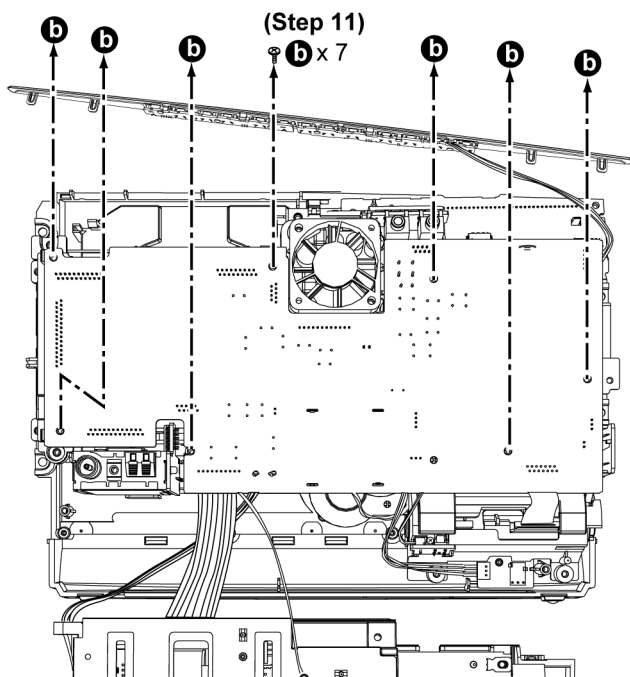
Step 10 : Check and repair Main P.C.B. (Side A) according to the diagram shown.

Caution : Take extra care not to damage the ground wire connected to the SMPS Unit during disassembling.

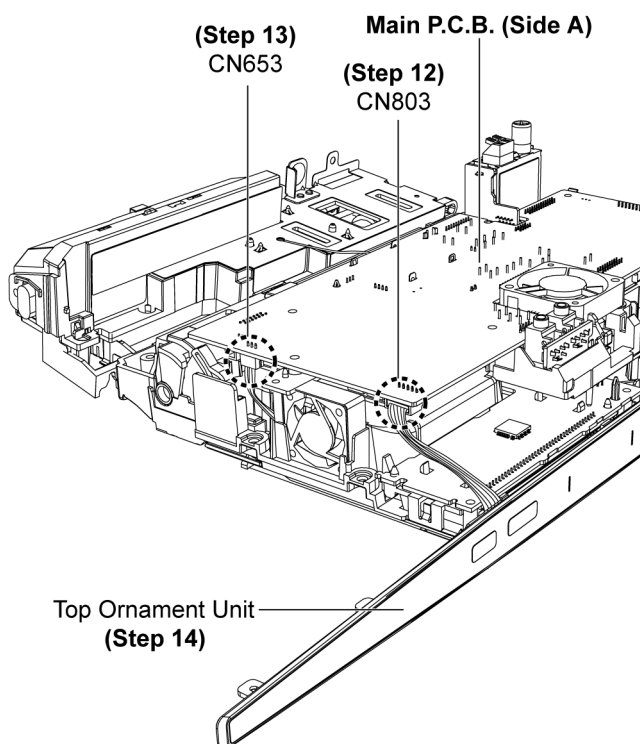


Step 8 : Remove 2 screw.

• Checking & Repairing Main P.C.B. (Side B)



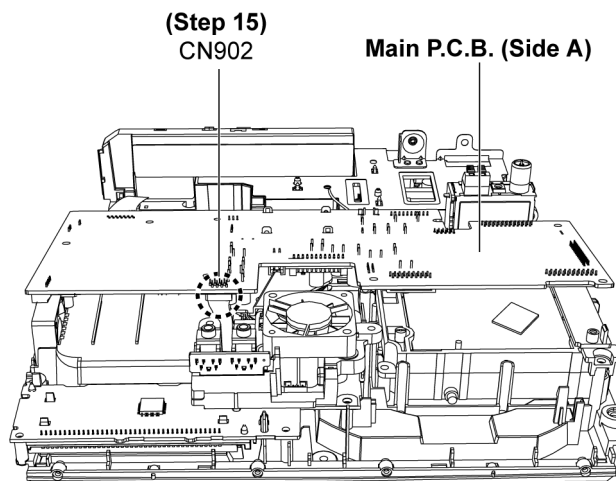
Step 11 : Remove 7 screw.



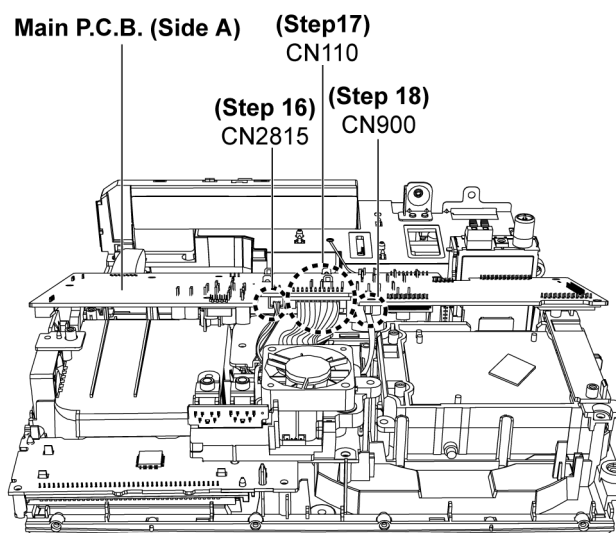
Step 12 : Detach 5P cable at the connector (CN803) on the Main P.C.B..

Step 13 : Detach 3P cable at the connector (CN653) on the Main P.C.B..

Step 14 : Remove Top Ornament Unit.



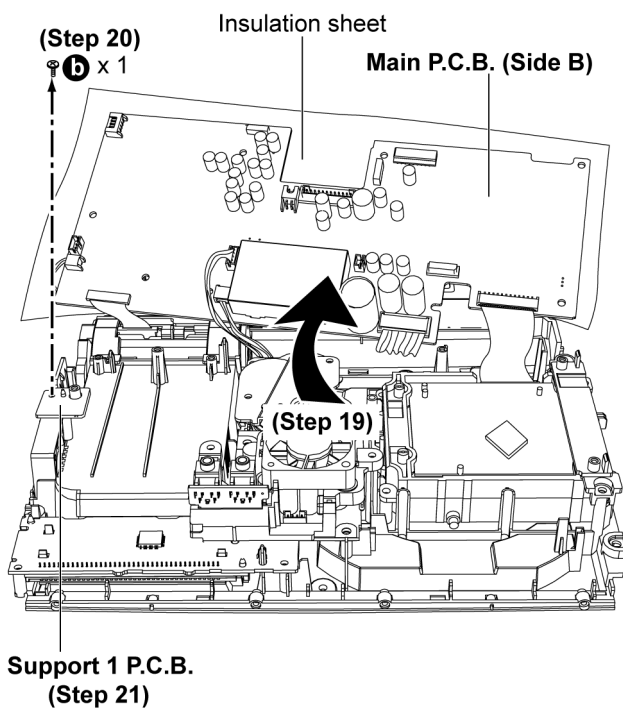
Step 15 : Lift up the Main P.C.B. slightly to detach 8P cable at the connector (CN902).



Step 16 : Detach 2P cable at the connector (CN2815) on the Main P.C.B..

Step 17 : Detach 12P cable at the connector (CN110) on the Main P.C.B..

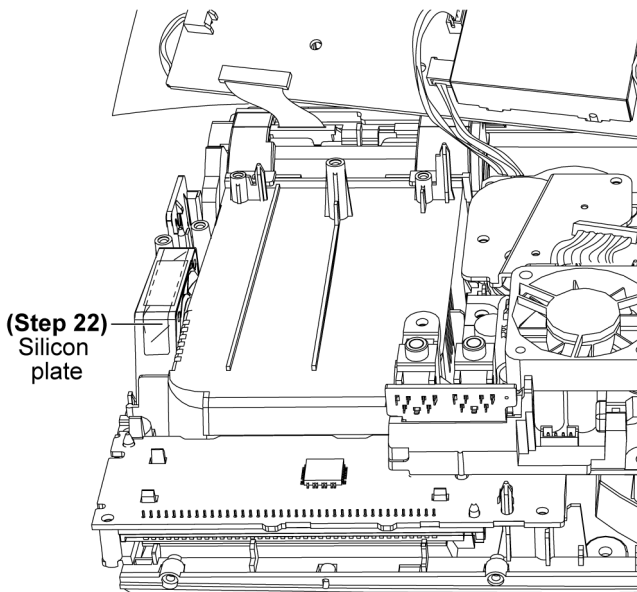
Step 18 : Detach 9P FFC cable at the connector (CN900) on the Main P.C.B..



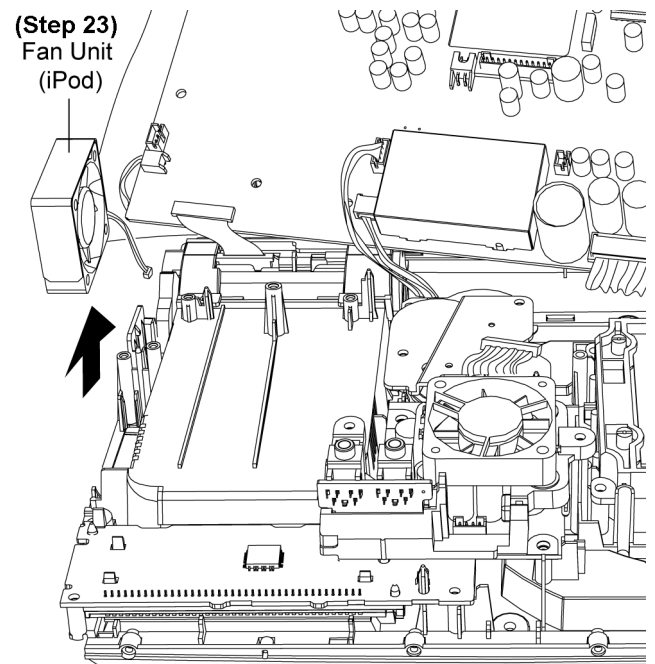
Step 19 : Flip over the Main P.C.B. as arrow shown and place it on an insulation sheet.

Step 20 : Remove 1 screw.

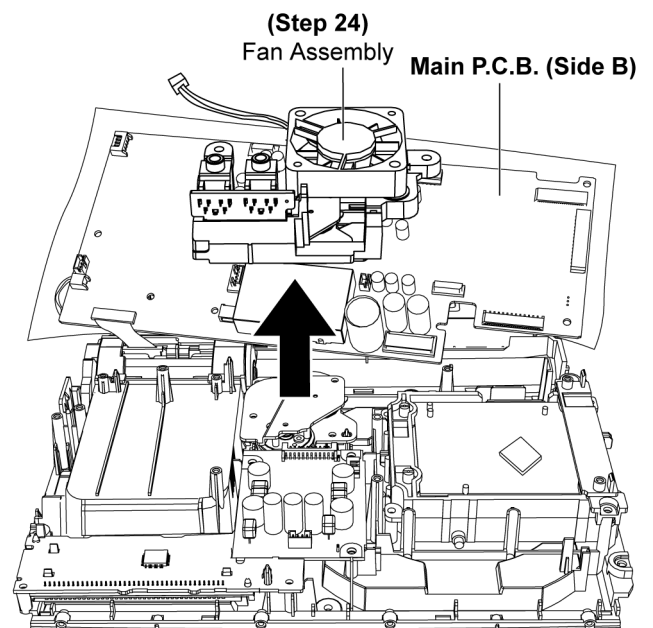
Step 21 : Remove the support 1 P.C.B..



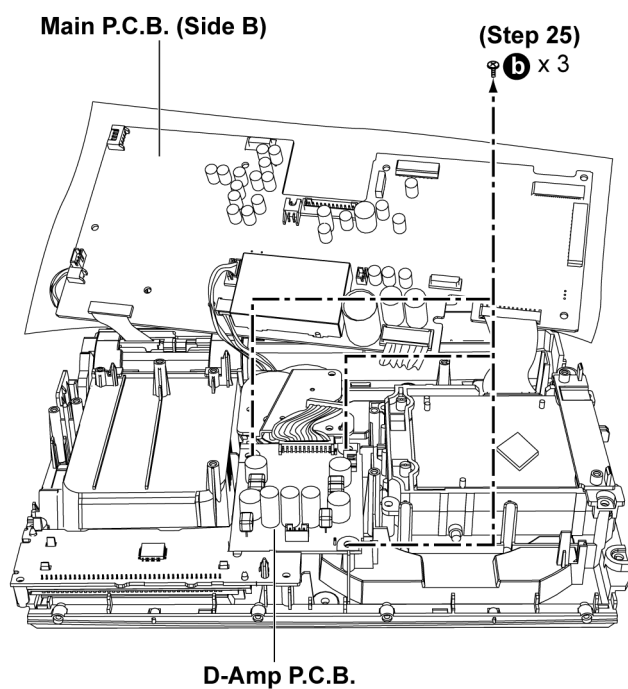
Step 22 : Remove the silicon plate.



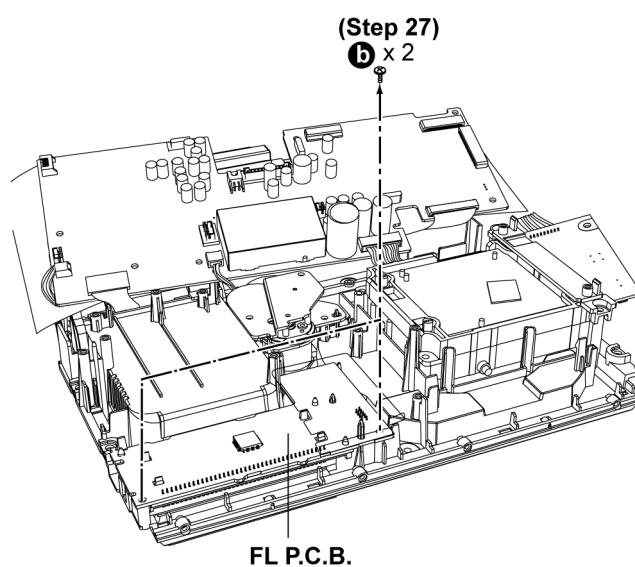
Step 23 : Remove the Fan Unit (iPod).



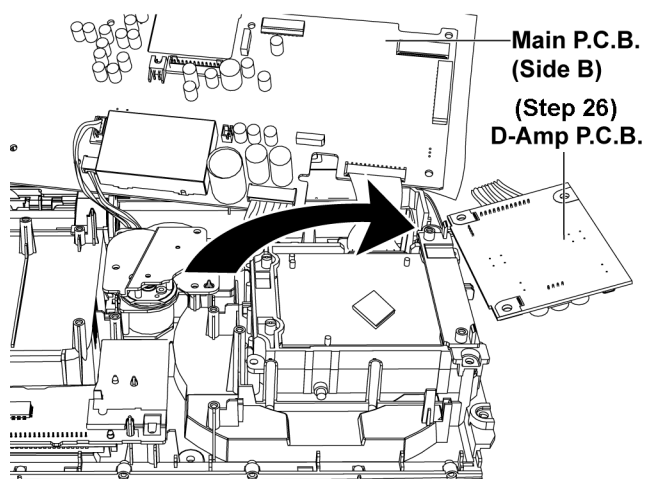
Step 24 : Remove the Fan Assembly.



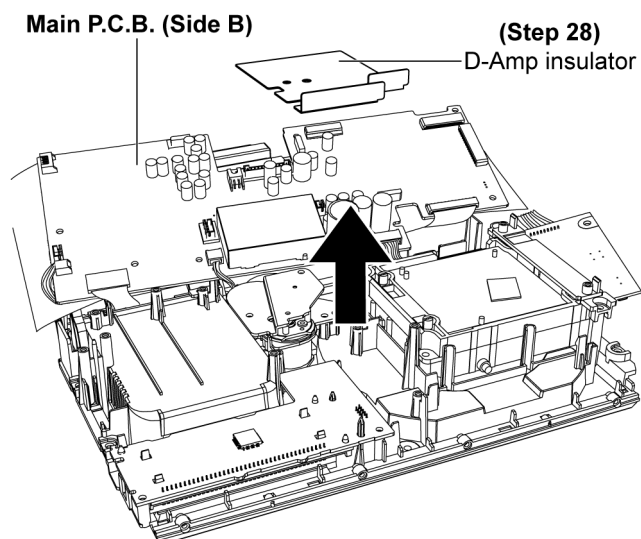
Step 25 : Remove 3 screws.



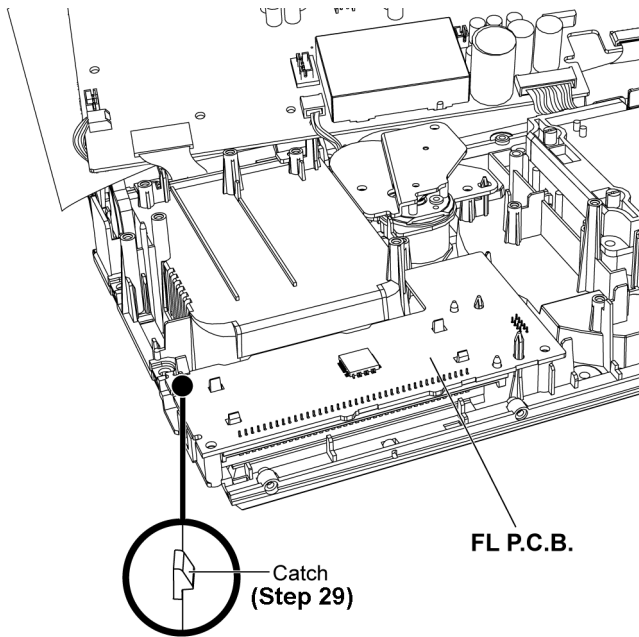
Step 27 : Remove 2 screws.



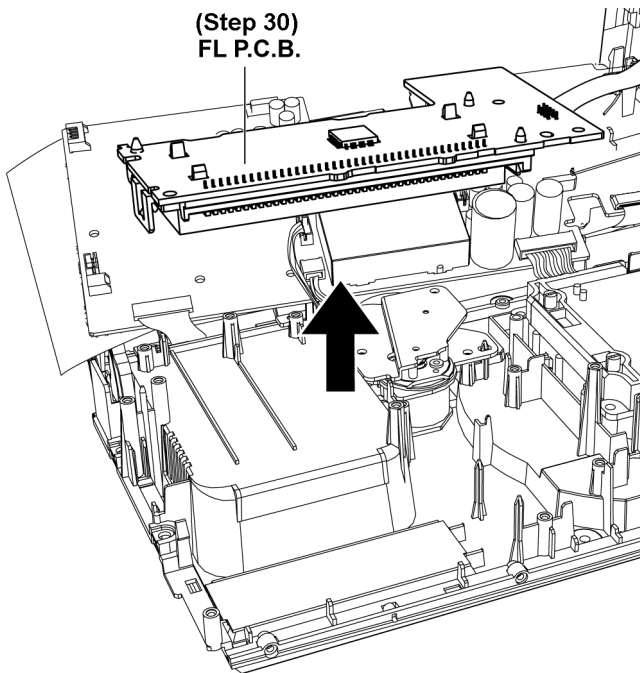
Step 26 : Flip over the D-Amp P.C.B. as arrow shown.



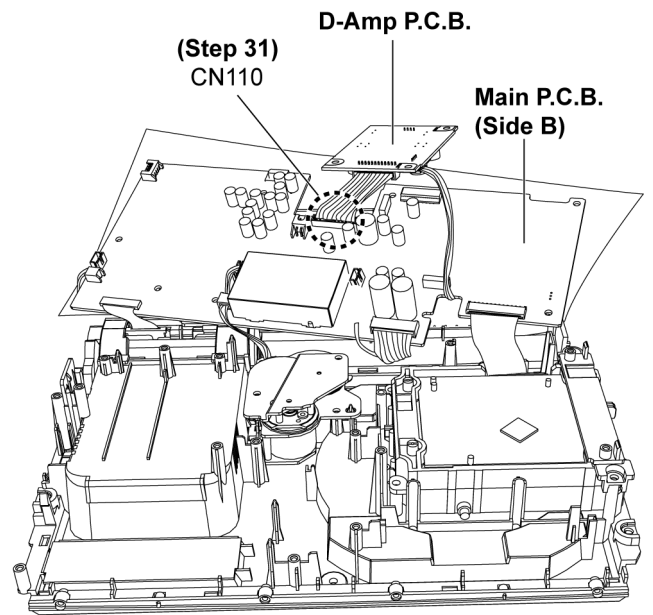
Step 28 : Remove the D-Amp insulator.



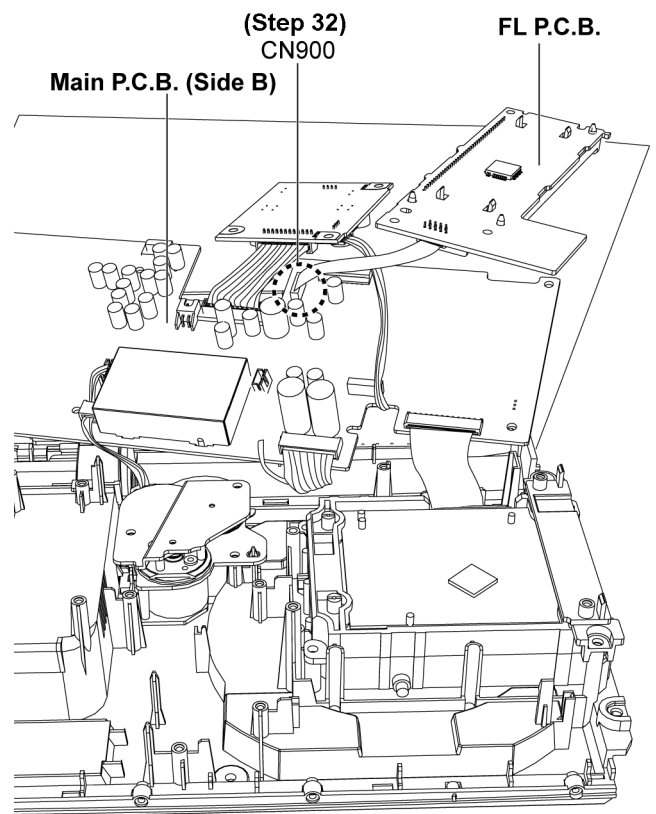
Step 29 : Release the catch on the FL P.C.B..



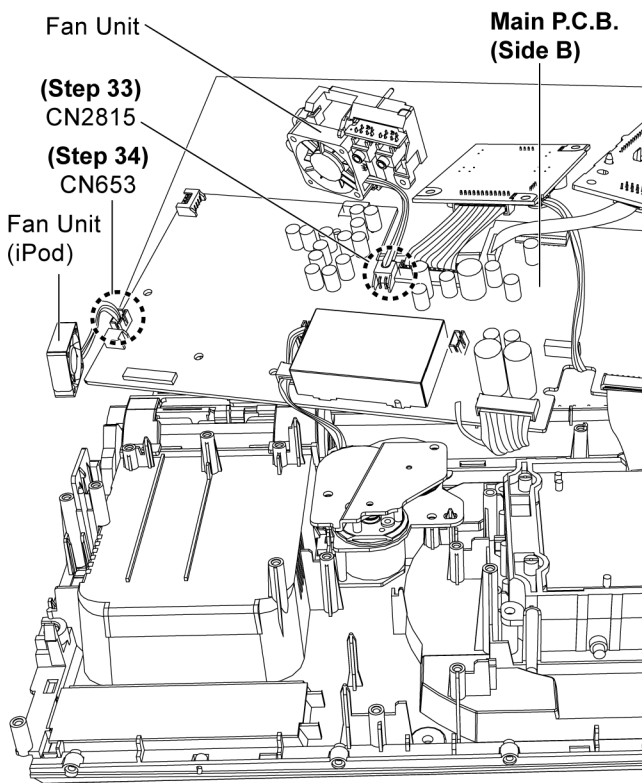
Step 30 : Remove the FL P.C.B..



Step 31 : Connect 12P cable at the connector (CN110) on the Main P.C.B..



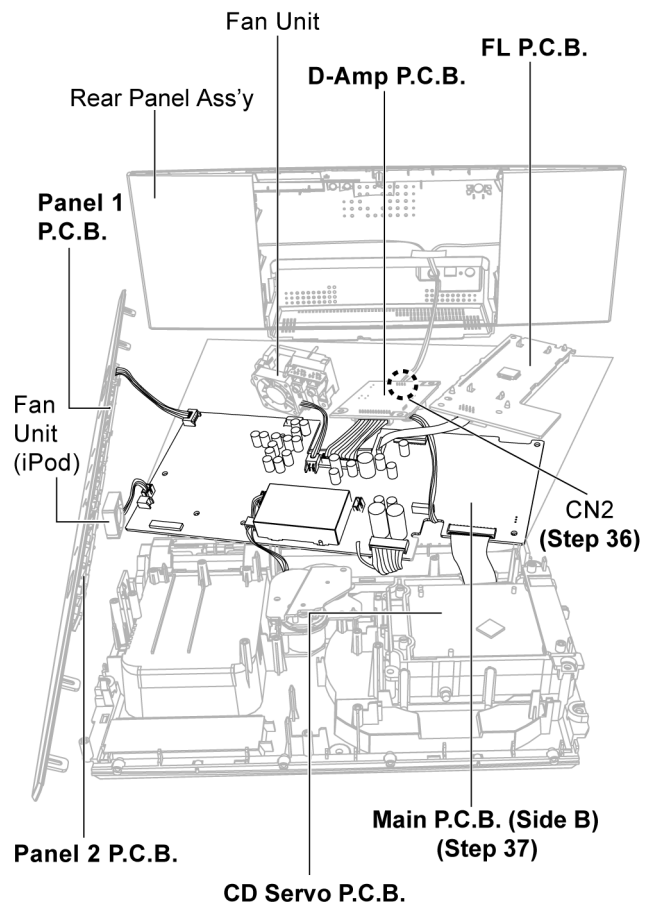
Step 32 : Connect 9P FFC cable at the connector (CN900) on the Main P.C.B..



Step 33 : Connect 2P cable at the connector (CN2815) on the Main P.C.B..

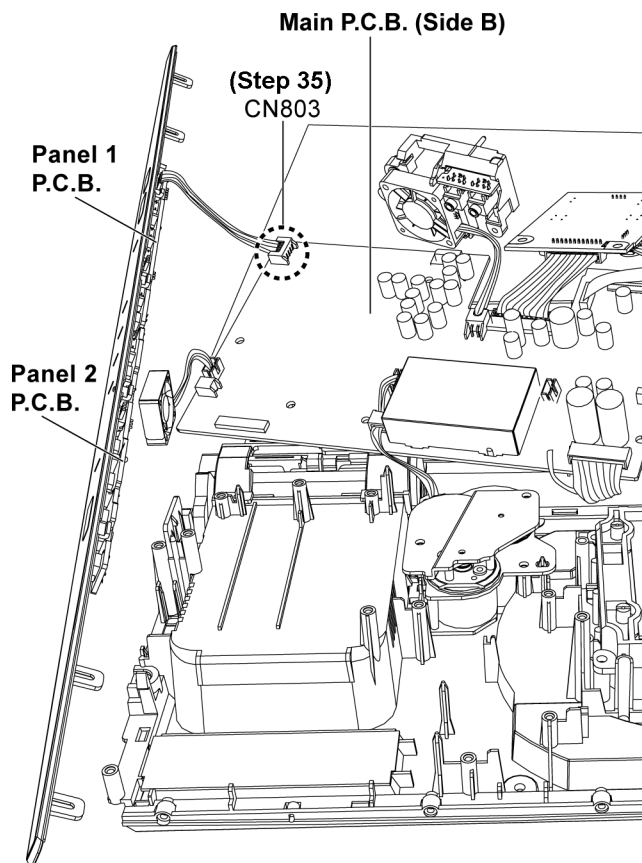
Step 34 : Connect 3P cable at the connector (CN653) on the Main P.C.B..

Step 35 : Connect 5P cable at the connector (CN803) on the Main P.C.B..



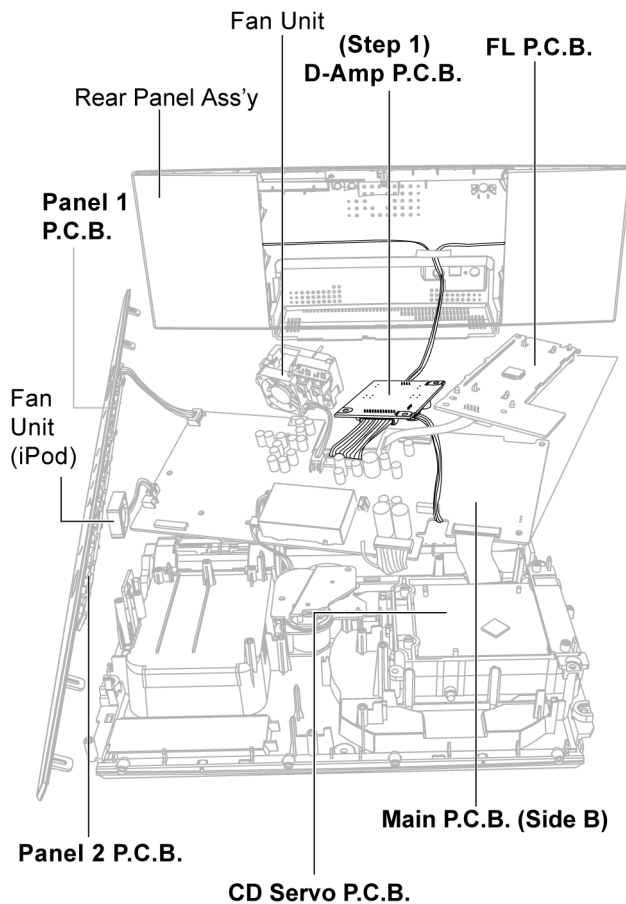
Step 36 : Connect 4P cable at the connector (CN2) on the D-Amp P.C.B..

Step 37 : Check and repair Main P.C.B. (Side B) according to the diagram shown.



10.2. Checking and Repairing D-Amp P.C.B.

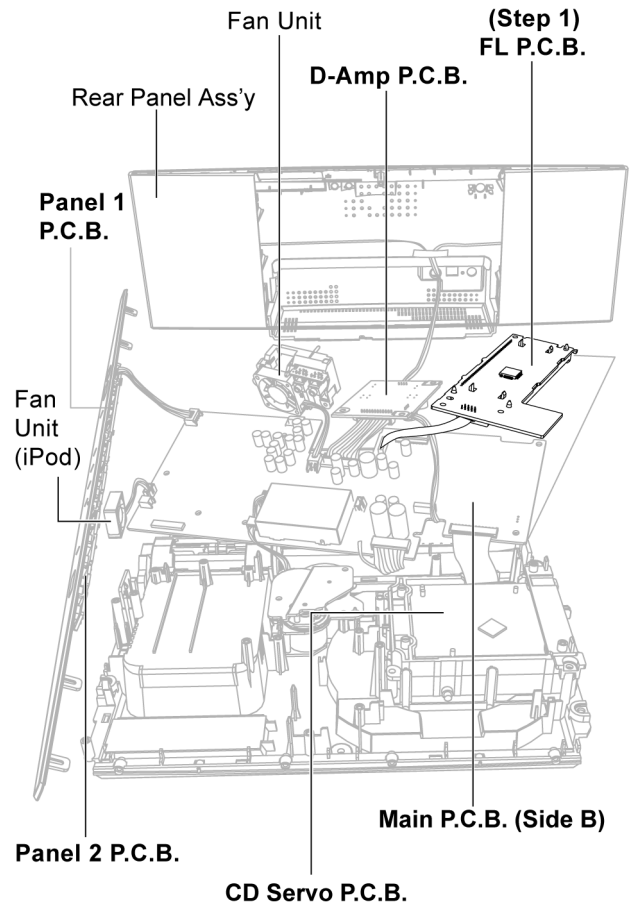
- Follow the (Step 1) - (Step 36) of item 10.1.



Step 1 : Check and repair D-Amp P.C.B. according to the diagram shown.

10.3. Checking and Repairing FL P.C.B.

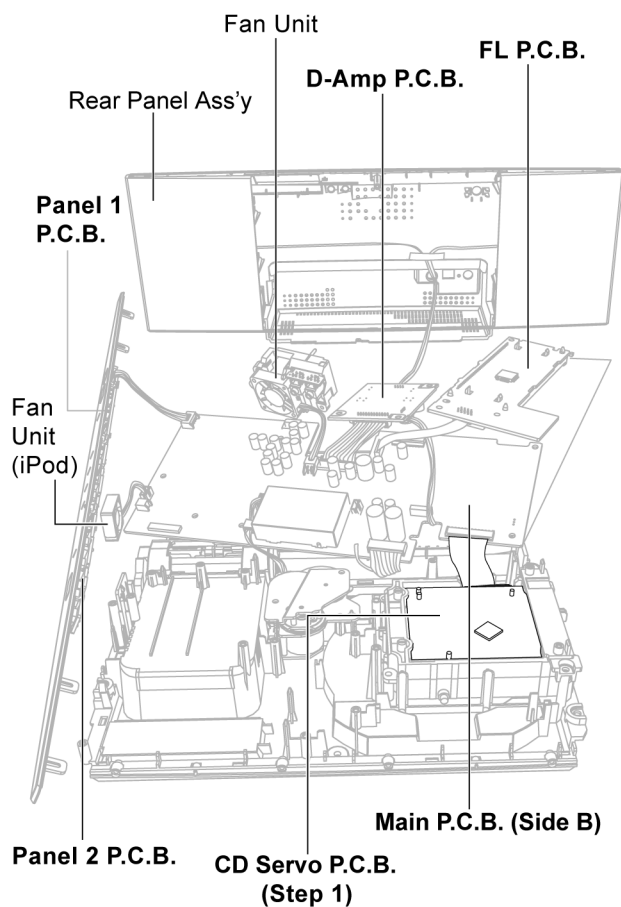
- Follow the (Step 1) - (Step 36) of item 10.1.



Step 1 : Check and repair FL P.C.B. according to the diagram shown.

10.4. Checking and Repairing CD Servo P.C.B.

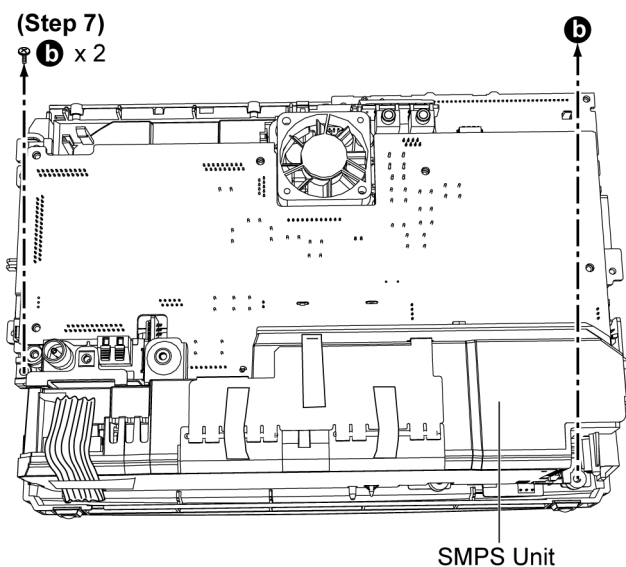
- Follow the (Step 1) - (Step 36) of item 10.1.



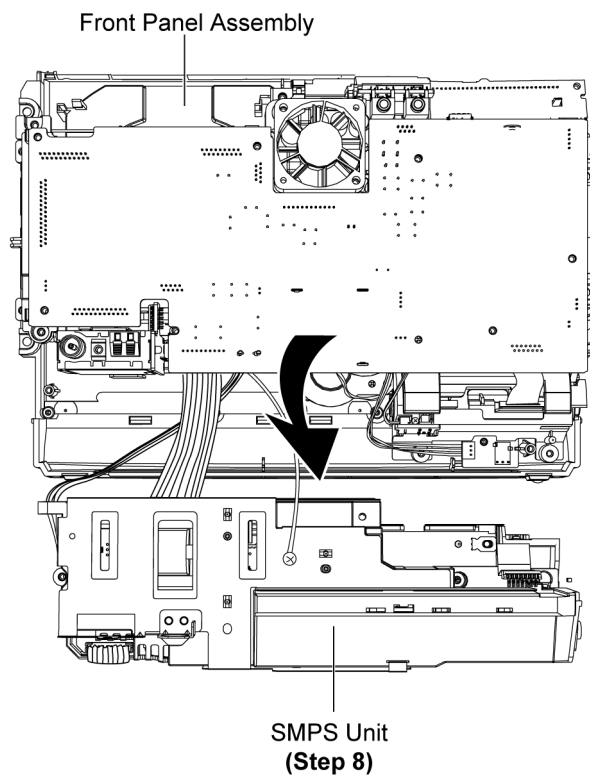
Step 1 : Check and repair CD Servo P.C.B. according to the diagram shown.

10.5. Checking and Repairing AC IN P.C.B.

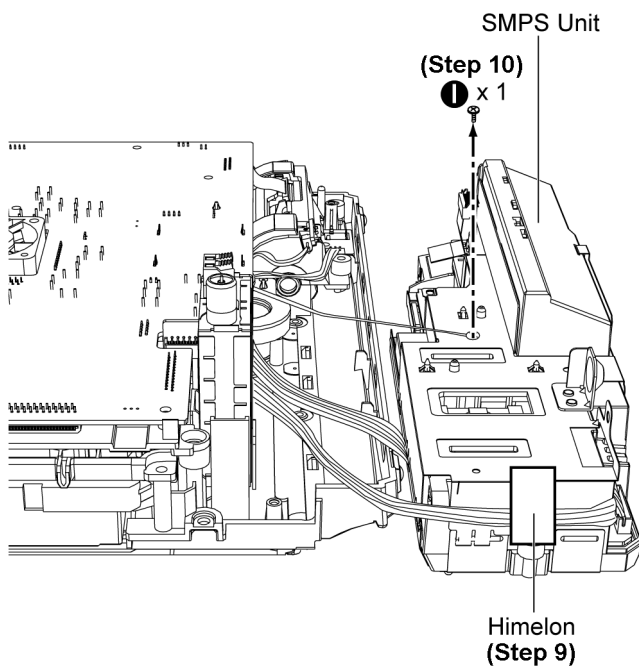
- Step 1 :** Remove CD Door Unit.
- Step 2 :** Remove Net Frame.
- Step 3 :** Remove Top Ornament.
- Step 4 :** Remove Bottom Ornament.
- Step 5 :** Remove Front Panel Block.
- Step 6 :** Remove Panel 1 & Panel 2 P.C.B..



Step 7 : Remove 2 screws.

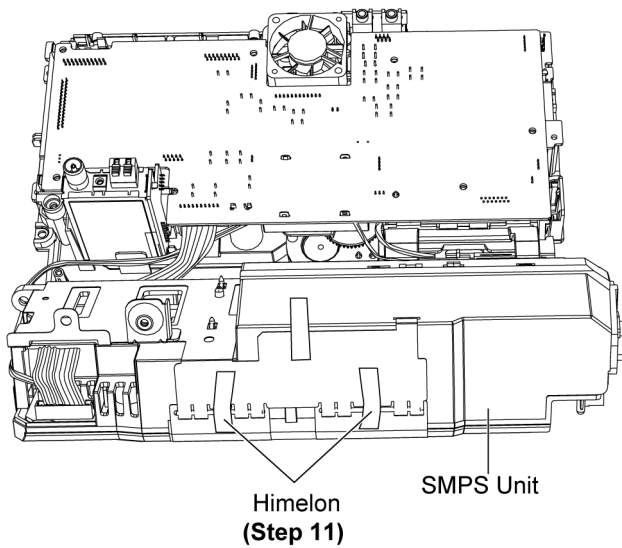


Step 8 : Lift up and flip over the SMPS Unit.

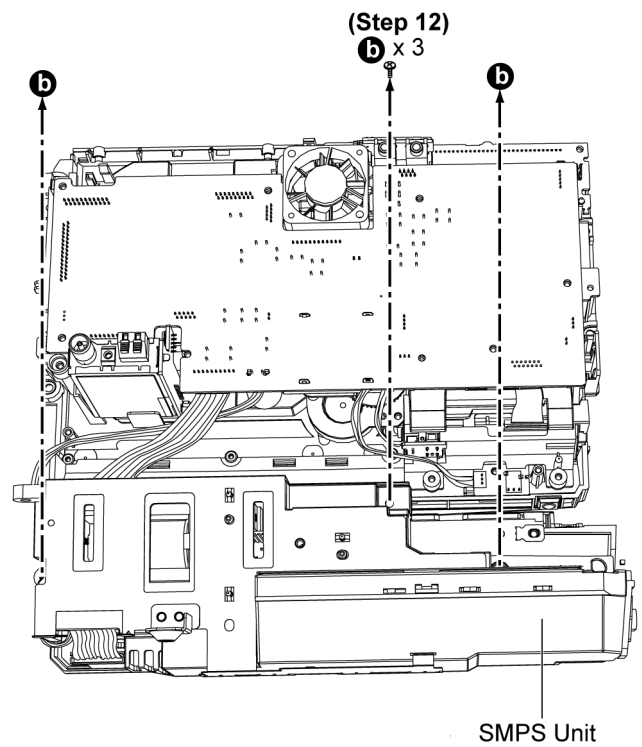


Step 9 : Lift up the himelon.

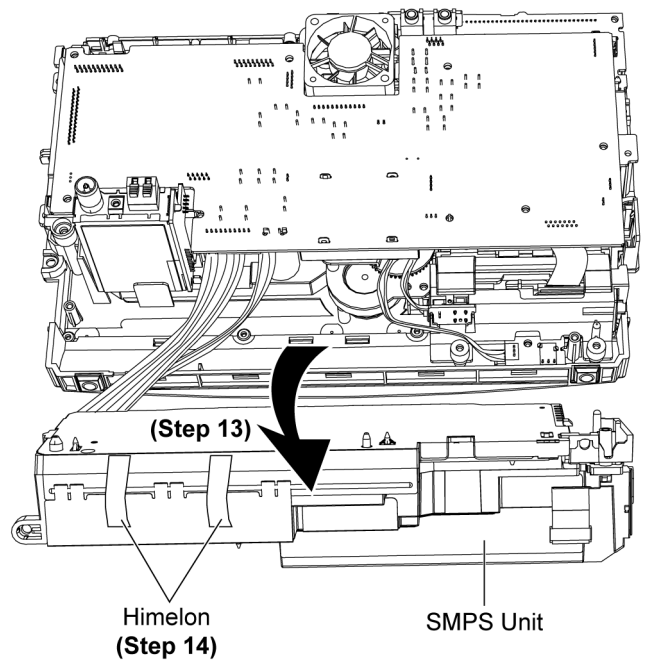
Step 10 : Remove 1 screw.



Step11 : Lift up 2 pieces of himelon.

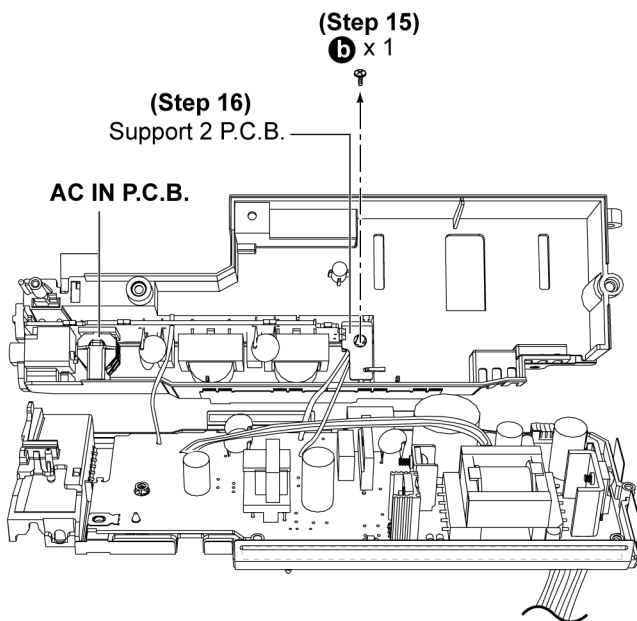


Step 12 : Remove 3 screws.



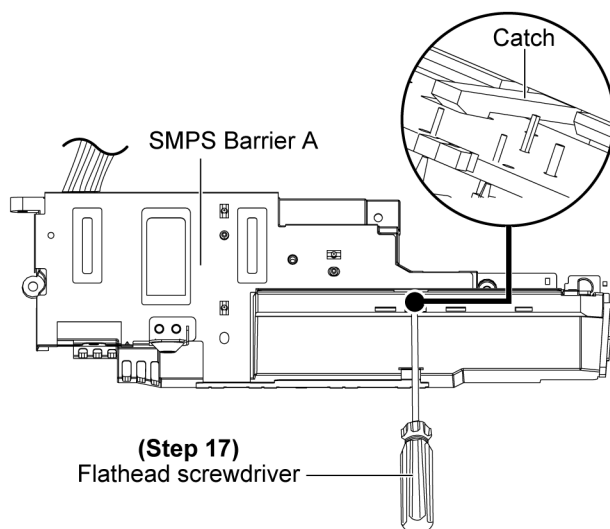
Step 13 : Flip over SMPS Unit as arrow shown.

Step 14 : Lift up 2 pieces of himelon.

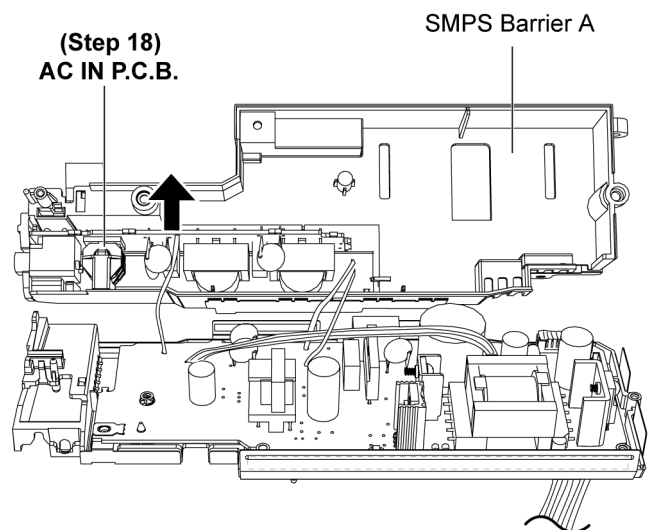


Step 15 : Remove 1 screw.

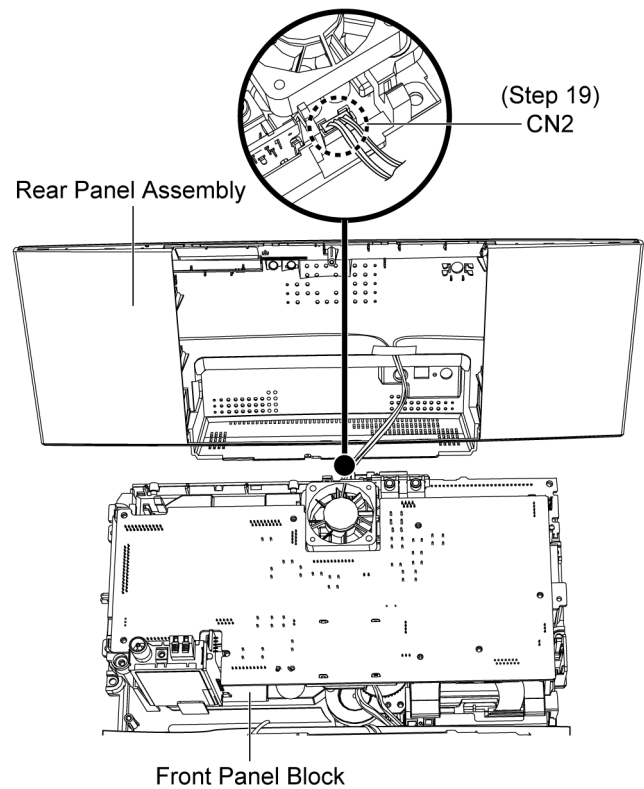
Step 16 : Remove Support 2 P.C.B..



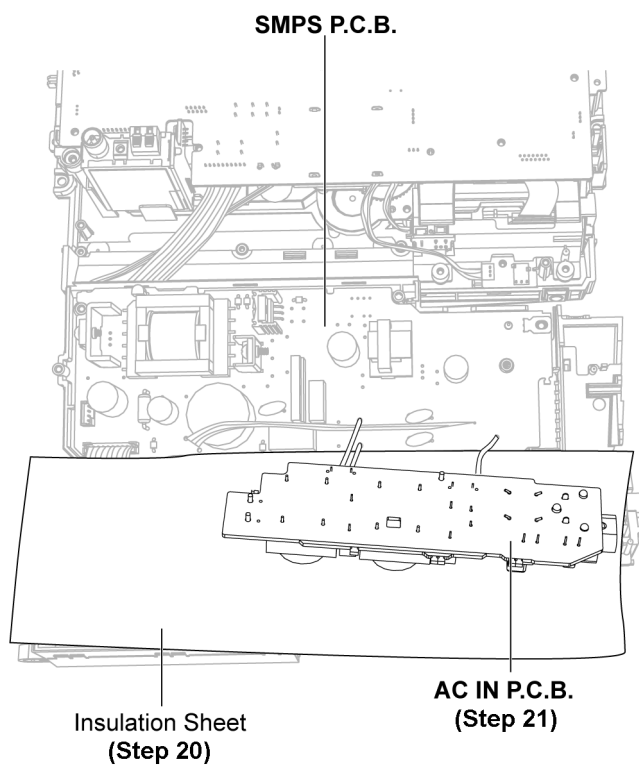
Step 17 : Using flathead screwdriver to release catch.



Step 18 : Remove AC IN P.C.B..



Step 19 : Connect 4P cable at the connector (CN2).

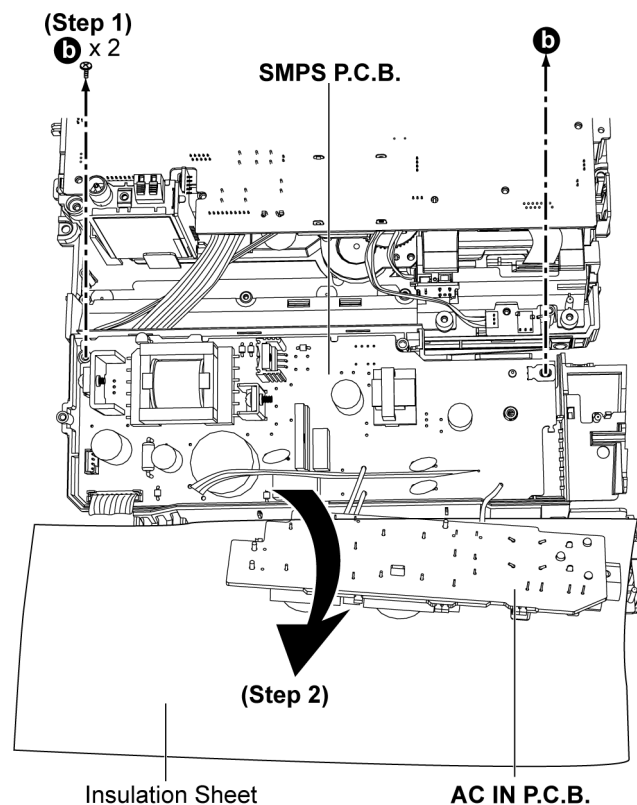


Step 20 : Lay the AC IN P.C.B. on an insulation sheet.

Step 21 : Check and repair AC IN P.C.B. according to the diagram shown.

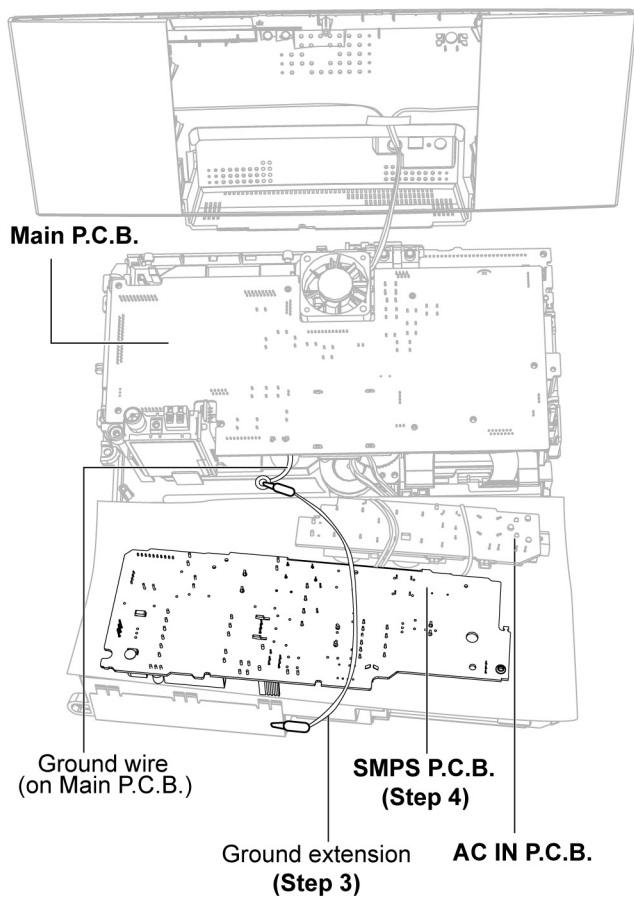
10.6. Checking and Repairing SMPS P.C.B.

- Follow the (Step 1) - (Step 20) of item 10.5.



Step 1 : Remove 2 screws.

Step 2 : Flip and lay the SMPS P.C.B. on the insulation sheet.



Step 3 : Connect the ground wire on the Main P.C.B. to the SMPS shield using a ground extension as shown.

Step 4 : Check and repair SMPS P.C.B. according to the diagram shown.

11 Voltage Measurement & Waveform Chart

Note:

- 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.
- Circuit voltage and waveform described herein shall be regarded as reference information when probing defect point because it may differ from actual measuring value due to difference of Measuring instrument and its measuring condition and product itself.

11.1. CD SERVO P.C.B.

Ref No.	IC7001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0.3	1.0	1.3	1.3	1.0	1.4	1.0	3.3	3.3	3.0	1.0	1.4	1.8	2.5	1.0	0.0	0.0	0.0	1.6	3.3
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Ref No.	IC7001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	1.6	0.0	1.8	1.8	2.0	0.0	3.3	1.5	3.3	3.3	0.0	1.7	1.8	1.8	2.0	2.0	1.8	1.7	1.7	1.7
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Ref No.	IC7001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0.2	2.5	2.0	0.0	0.0	0.0	0.0	1.1	0.0	1.2	1.6	0.0	0.0	1.4	1.5	1.5	0.0	3.0	1.5	0.0
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Ref No.	IC7001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	2.7	0.6	0.0	0.6	0.0	0.0	3.0	3.0	3.2	1.3	0.0	3.3	0.0	1.6	0.0	1.6	3.2	0.0	3.2	1.6
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Ref No.	IC7001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	1.6	1.6	0.0	1.3	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Ref No.	IC7002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	1.6	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	7.5	1.7	3.2	3.2	3.2	2.8	3.8	3.2	3.2	7.5	0.0
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Ref No.	IC7002																			
MODE	21	22	23	24	25	26	27	28	29	30										
CD PLAY	0.0	0.0	0.0	0.0	7.1	1.6	1.6	1.6	0.0	0.0										
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										

Ref No.	IC7003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.3	0.0	1.3	1.3	0.3	0.0	0.0	1.0	2.5	1.8	1.4	1.0	3.3	0.0	1.0	1.4	1.0	1.3	1.3	0.0
STANDBY	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Ref No.	IC7003																			
MODE	21	22	23	24	25	26														
CD PLAY	1.0	0.0	3.3	0.0	1.3	0.0														
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0														

Ref No.	Q7601																			
MODE	E	C	B																	
CD PLAY	3.1	2.0	2.4																	
STANDBY	0.0	0.1	0.0																	

SC-HC3EB/EG/EF CD SERVO P.C.B.

11.2. D-AMP P.C.B.

Ref No.	IC1																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.5	3.5	6.0	1.1	0	0.0	17.0	17	8.6	0.0	0.0	0	0	0	17.0	0	24.6	0.0	0.0	9.0
STANDBY	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Ref No.	IC1																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	9.0	0.0	3.5	0.3	5.0	5.0	11.6	24.6	17.0	17.0	0.0	8.6	0.0	0.0	8.6	8.6	17.0	17.0	24.6	17.0
STANDBY	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Ref No.	IC1																			
MODE	41	42	43	44																
CD PLAY	4.4	3.5	0.0	3.5																
STANDBY	0.0	0.0	0.0	0.3																

Ref No.	QR1				QR2				QR3				QR4							
MODE	E	C	B		E	C	B		E	C	B		E	C	B					
CD PLAY	0.0	3.3	0.0		0.0	9.0	0.3		0.0	1.0	0.0		0.0	9.0	0.0					
STANDBY	0.0	0.0	0.0		0.0	0.0	0.0		0.0	3.3	0.0		0.0	0.0	3.3					

SC-HC3EB/EG/EF D-AMP P.C.B.

11.3. FL P.C.B.

Ref No.	IC6801																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0.0	0.0	0.0	0.0	2.7	3.1	0.1	0.0	0.2	1.8	1.8	0.0	3.3	-25.5	-25.5	-23.3	-14.6	-18.9	-14.5	-25.5
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Ref No.	IC6801																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	-25.5	-25.5	-18.9	-18.9	-25.5	-25.5	-25.5	-23.3	-16.7	-19.1	-16.8	-24.2	-23.5	-23.2	-23.2	-23.2	-23.2	-23.2	-23.2	-23.2
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Ref No.	IC6801																			
MODE	41	42	43	44																
CD PLAY	-23.2	-23.2	3.3	0.0																
STANDBY	0.0	0.0	3.3	0.0																

SC-HC3EB/EG/EF FL P.C.B.

11.4. MAIN P.C.B. (1/3)

Ref No.	IC101																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0.0	0.0	0.0	0.0	4.4	0.0	0.0	4.3	4.3	4.3	4.3	4.3	0.0	4.3	4.3	4.3	4.3	0.0	3.3	3.3
STANDBY	0.0	0.3	0.3	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.2	0.2	0.0	0.0	0.0	0.0
Ref No.	IC101																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	3.3	8.6	4.3	4.3	0.7	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	0.0	4.3	0.0	4.3	4.3	0.0	4.3
STANDBY	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ref No.	IC101																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52								
CD PLAY	0.0	0.0	0.0	4.3	4.3	4.3	4.3	0.0	0.0	0.0	0.0	4.3								
STANDBY	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.3	0.0	0.3								
Ref No.	IC102																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	4.6	4.6	4.6	0.0	4.6	4.6	4.6	9.0												
STANDBY	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0												
Ref No.	IC103																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	8.1	7.6	8.1	0.0	8.1	7.7	8.2	14.8												
STANDBY	0.3	0.3	0.0	0.0	0.0	0.3	0.3	0.0												
Ref No.	IC350																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
CD PLAY	3.3	3.3	1.6	1.6	3.3	0	1.6	1.6	0	0	0	3.3	1.7	1.7	0	0				
STANDBY	0	0	0	0	0	0	0	0.3	0	0	0	0	0	0	0	0				
Ref No.	IC503																			
MODE	1	2	3	4	5															
CD PLAY	5.3	0.0	5.3	0.0	3.3															
STANDBY	0.2	0.0	0.2	0.0	0.0															
Ref No.	IC504																			
MODE	1	2	3	4	5															
CD PLAY	15.2	9.0	0.0	1.2	2.6															
STANDBY	15.2	7.5	0.0	0.0	0.0															
Ref No.	IC505																			
MODE	1	2	3	4	5															
CD PLAY	15.0	4.8	0.0	0.0	0.0															
STANDBY	15.2	4.8	0.0	0.0	0.0															
Ref No.	IC551																			
MODE	1	2	3																	
CD PLAY	0.2	0.0	0.6																	
STANDBY	0.0	0.0	0.3																	
Ref No.	IC650																			
MODE	1	2	3	4	5	6	7	8	9											
CD PLAY	0.0	0.0	0.0	0.0	0.0	5.8	0.8	0.0	0.5											
STANDBY	0.0	0.0	0.0	0.0	0.0	4.5	1.7	0.0	1.8											

SC-HC3EB/EG/EF MAIN P.C.B.

11.5. MAIN P.C.B. (2/3)

Ref No.	IC801																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.2	1.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.6	1.6	0.0	1.8	1.8	3.3	1.8	3.3	1.8
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	0.0	1.6	1.6	3	1.6	3.3	1.6
Ref No.	IC801																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0.0	0.0	0.0	0.0	2.7	0.0	1.8	0.0	0.0	0.0	0.0	0.5	0.0	1.2	2.8	1.8	0.0	0.0	0.0	3.3
STANDBY	0.0	1.0	0.0	0.0	3.3	0.0	1.6	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0
Ref No.	IC801																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	3.3	0.0	3.0	3.2	3.3	2.3	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	3.3	0.0	0.0
STANDBY	0.0	0.0	0.0	0.0	0.0	3.3	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0
Ref No.	IC801																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
Ref No.	IC801																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	0.0	0.0	0.0	0.0	3.3	0.0	2.4	3.3	0.0	0.0	3.3	0.0	0.0	3.3	3.3	3.3	0.8	0.0	0.0	0.0
STANDBY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ref No.	IC802																			
MODE	1	2	3	4	5															
CD PLAY	12.2	0.0	1.5	3.3	12.2															
STANDBY	4.8	0.0	2.0	3.3	4.8															
Ref No.	IC803																			
MODE	1	2	3	4	5															
CD PLAY	3.3	3.3	0.0	0.0	1.7															
STANDBY	3.3	3.3	0.0	0.0	1.6															
Ref No.	Q101				Q102				Q103				Q104				Q105			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	13.3	14.9	13.8		0.0	14.8	0.0		0.0	0.0	0.0		0.0	14.8	0.3		0.0	0.0	0.3	
STANDBY	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		-0.1	0.0	0.0		0.0	0.0	0.0	
Ref No.	Q251				Q252				Q253				Q302				Q382			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0.0	0.0	-2.6		0.0	0.0	-2.6		0.0	0.0	-2.6		0.0	2.6	-0.3		0.0	1.0	2.0	
STANDBY	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0	
Ref No.	Q451				Q452				Q453				Q509				Q511			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0.0	0.0	-2.6		0.0	0.0	-2.5		0.0	0.0	-2.5		5.9	7.7	6.2		7	7.7	7.5	
STANDBY	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		6.0	0.0	0.0		0.0	4.4	0.0	

SC-HC3EB/EG/EF MAIN P.C.B.

11.6. MAIN P.C.B. (3/3)

Ref No.	Q512				Q551				Q552				Q553				Q581			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	8.4	0.0	7.5		8.6	0.0	8.6		0.0	8.6	0.0		0.0	0.0	0.3		0.3	16.7	0.0	
STANDBY	5.0	0.0	5.0		0.0	0.0	0.0		0.0	0.1	0.0		0.0	0.0	0.0		0.0	0.0	0.0	
Ref No.	Q582				Q583				QR101				QR121				QR384			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	7.8	0.0	7.8		9.0	0.0	7.8		0.0	-2.5	0.0		0.0	0.1	2.7		0.0	2.4	0.0	
STANDBY	0.0	0.0	0.0		0.0	0.0	0.0		1.6	1.4	0.0		0.0	0.0	0.0		0.0	6.0	0.0	
Ref No.	QR514				QR515				QR554				QR804				QR805			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0.0	0.0	8.6		0.0	8.6	0.0		0.0	3.3	0.0		3.3	0.0	3.3		0.0	7.8	0.0	
STANDBY	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.5	0.0		3.3	0.0	0.0		0.0	0.0	0.0	
Ref No.	QR806																			
MODE	E	C	B																	
CD PLAY	0.0	0.0	3.3																	
STANDBY	0.0	0.0	0.0																	

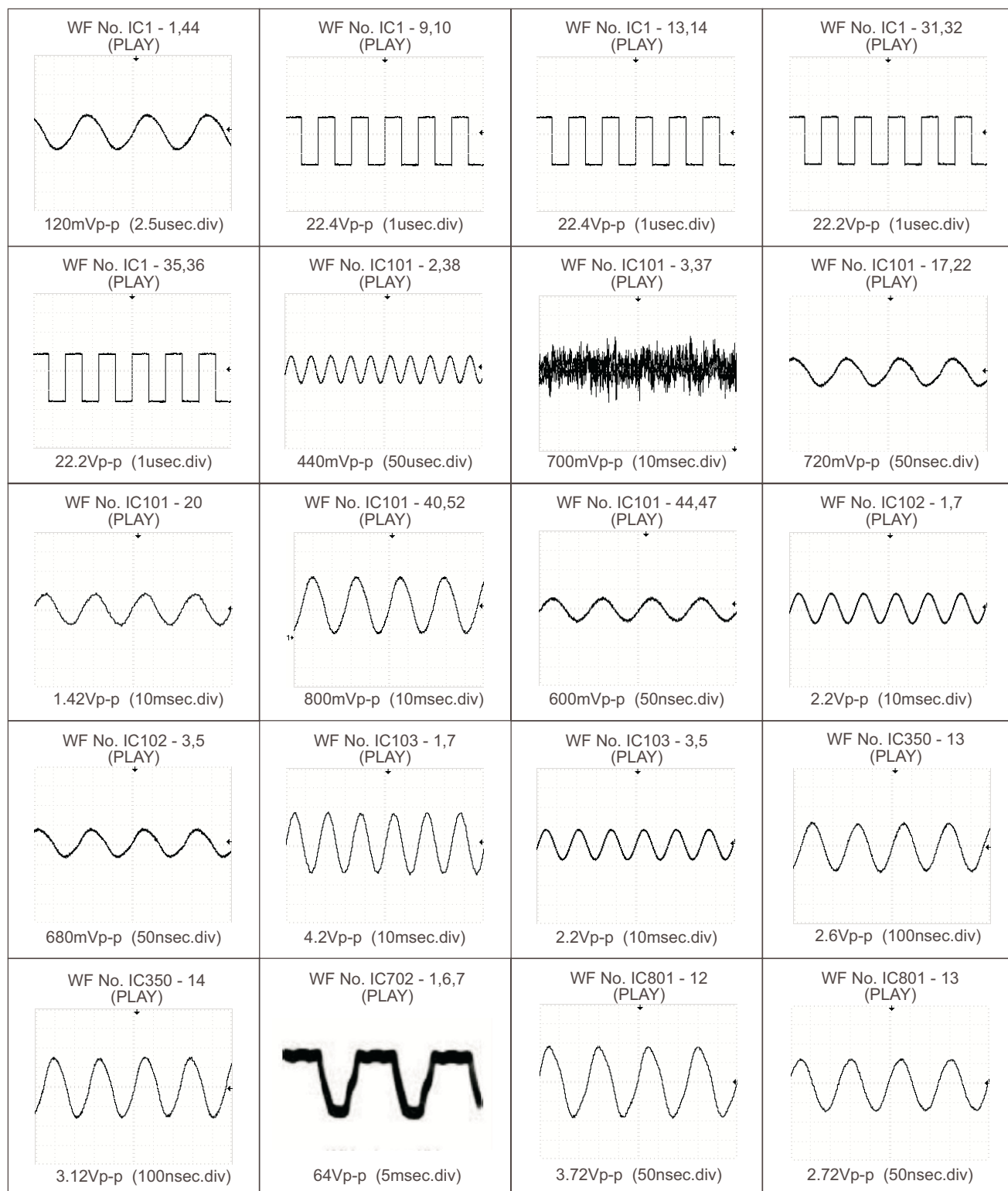
SC-HC3EB/EG/EF MAIN P.C.B.

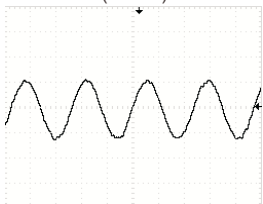
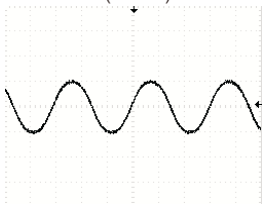
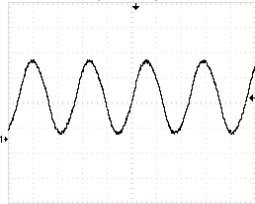
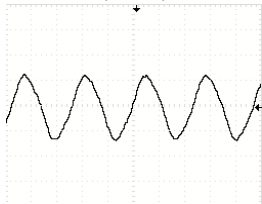
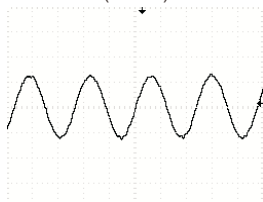
11.7. SMPS P.C.B.

Ref No.	IC701															
MODE	1	2	3													
CD PLAY	13.6	0.0	2.4													
STANDBY	0.0	0.0	0.0													
Ref No.	IC702															
MODE	1	2	3	4	5	6	7									
CD PLAY	-1.1	-	0.0	-3.5	-5.0	-5.0	-5.5									
STANDBY	0.3	-	0.0	0.0	-0.5	-0.5	-0.5									
Ref No.	IC705															
MODE	1	2	3	4	5											
CD PLAY	3.2	7.0	0.0	0.0	0.0											
STANDBY	3.3	0.0	0.0	0.0	0.0											
Ref No.	IC751															
MODE	1	2	3	4	5	6	7	8								
CD PLAY	-8.8	-6.0	-6.0	-5.0	5.0	-	-6.0	-6.0								
STANDBY	-3.2	-3.2	-3.2	-3.0	3.0	-	-3.2	-3.2								
Ref No.	IC752															
MODE	1	2	3													
CD PLAY	3.8	2.5	0.0													
STANDBY	3.8	2.5	0.0													
Ref No.	Q701				Q703											
MODE	E	C	B		E	C	B									
CD PLAY	0.0	17.0	0.0		0.0	0.0	0.7									
STANDBY	0.0	0.0	0.0		0.0	5.0	0.0									

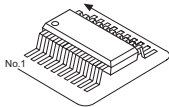
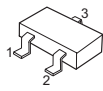
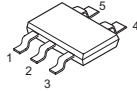
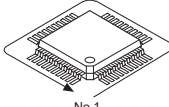
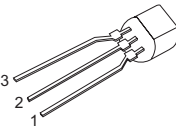
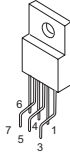
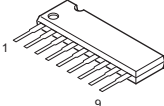
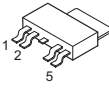
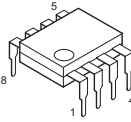
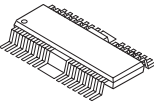
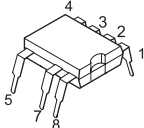
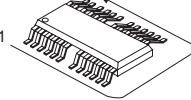
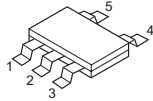
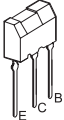
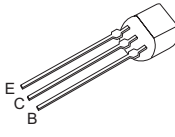
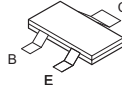
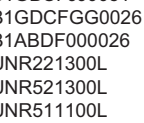
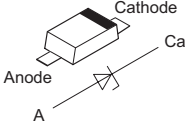
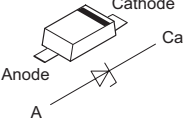
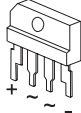
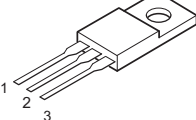
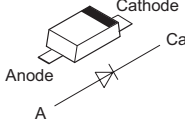
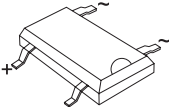
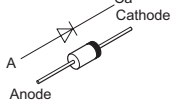
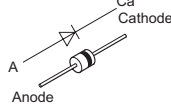
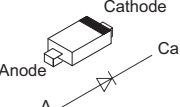
SC-HC3EB/EG/EF SMPS P.C.B.

11.8. Waveform Chart

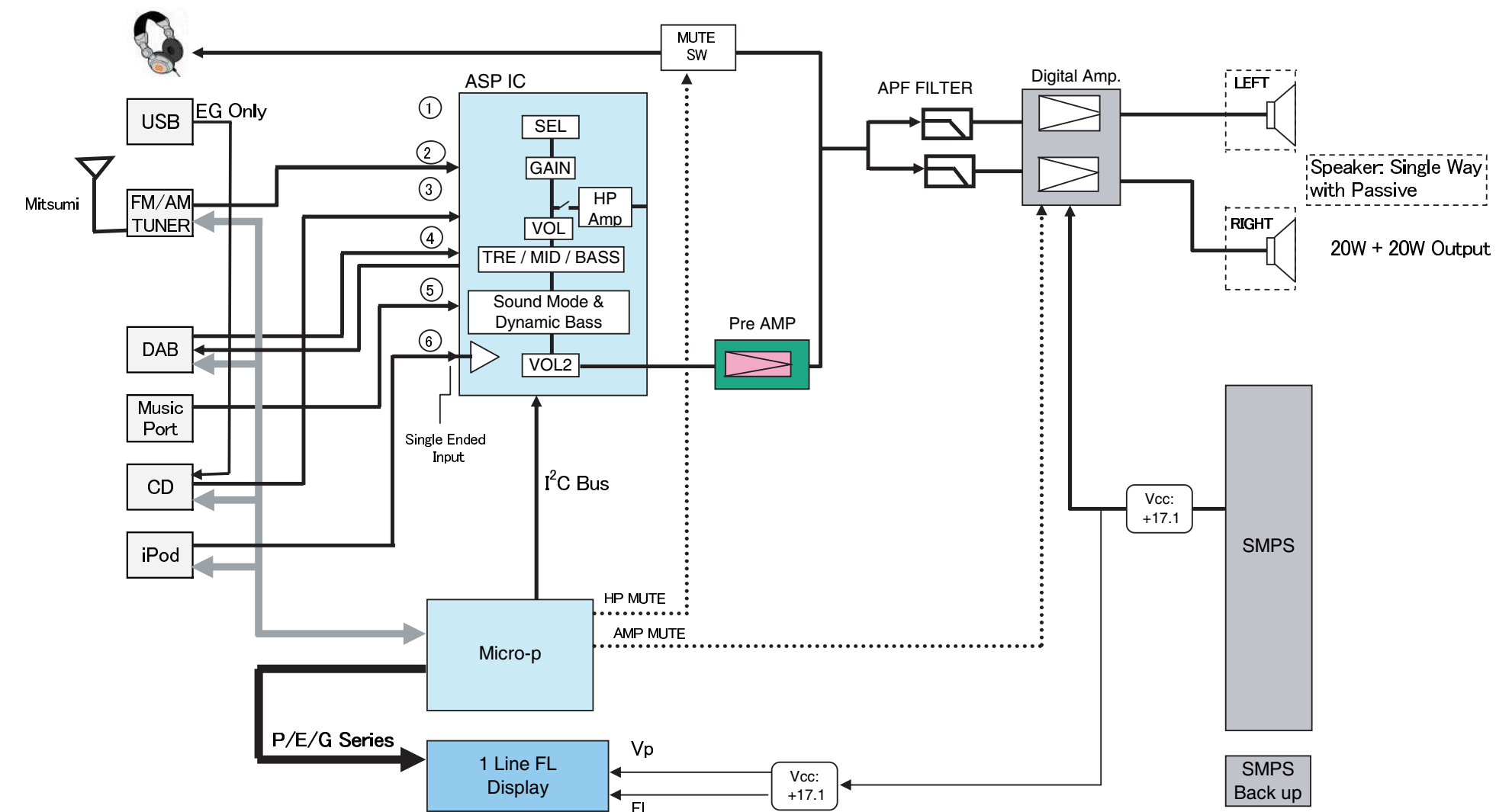


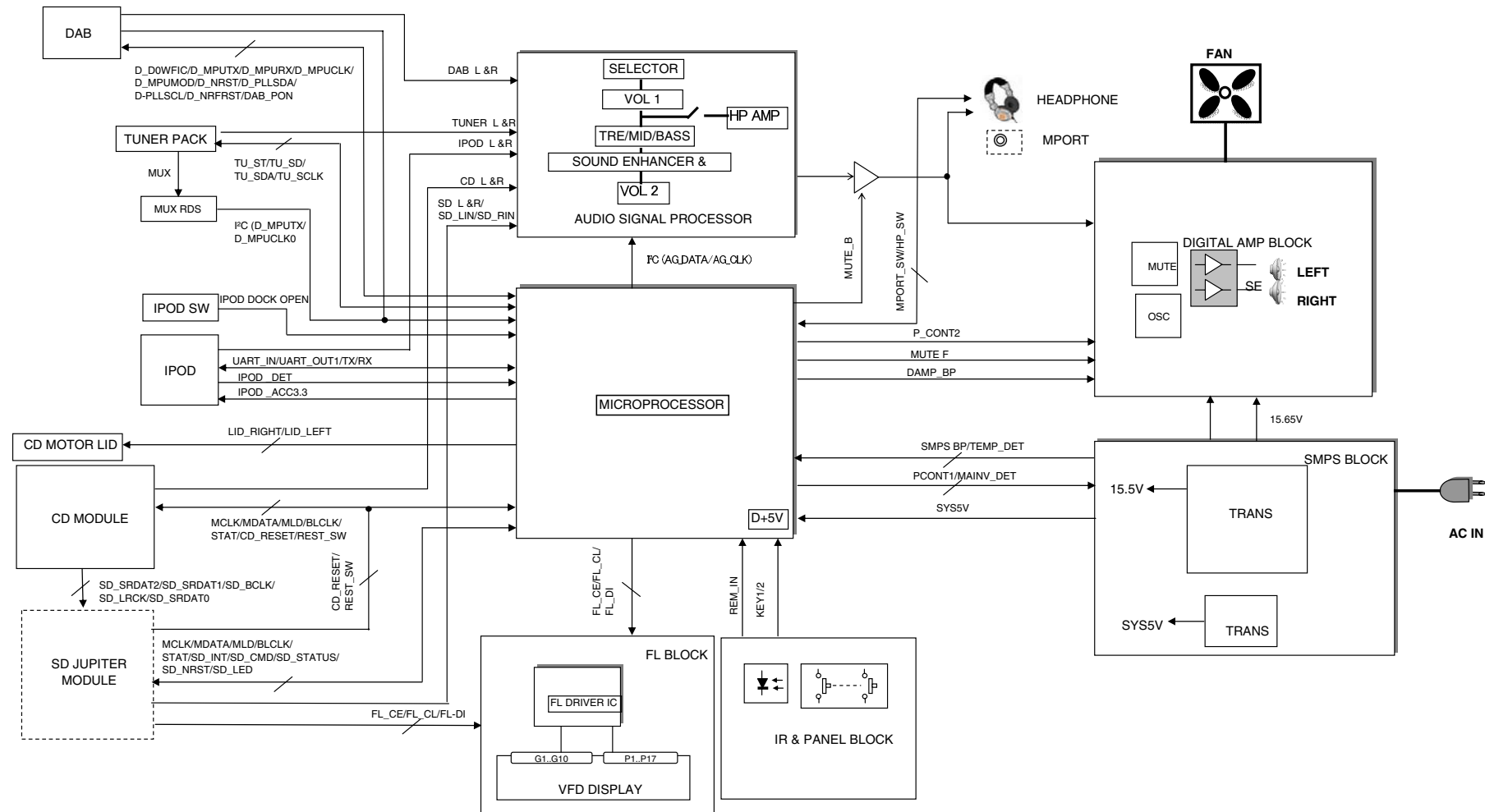
WF No. IC801 - 15 (PLAY)  2Vp-p (10usec.div)	WF No. IC801 - 16 (PLAY)  2.12Vp-p (10usec.div)	WF No. IC7001 - 56,59 (PLAY)  800mVp-p (10msec.div)	WF No. IC7001 - 80 (PLAY)  2.72Vp-p (50nsec.div)
WF No. IC7001 - 81 (PLAY)  2Vp-p (10usec.div)			

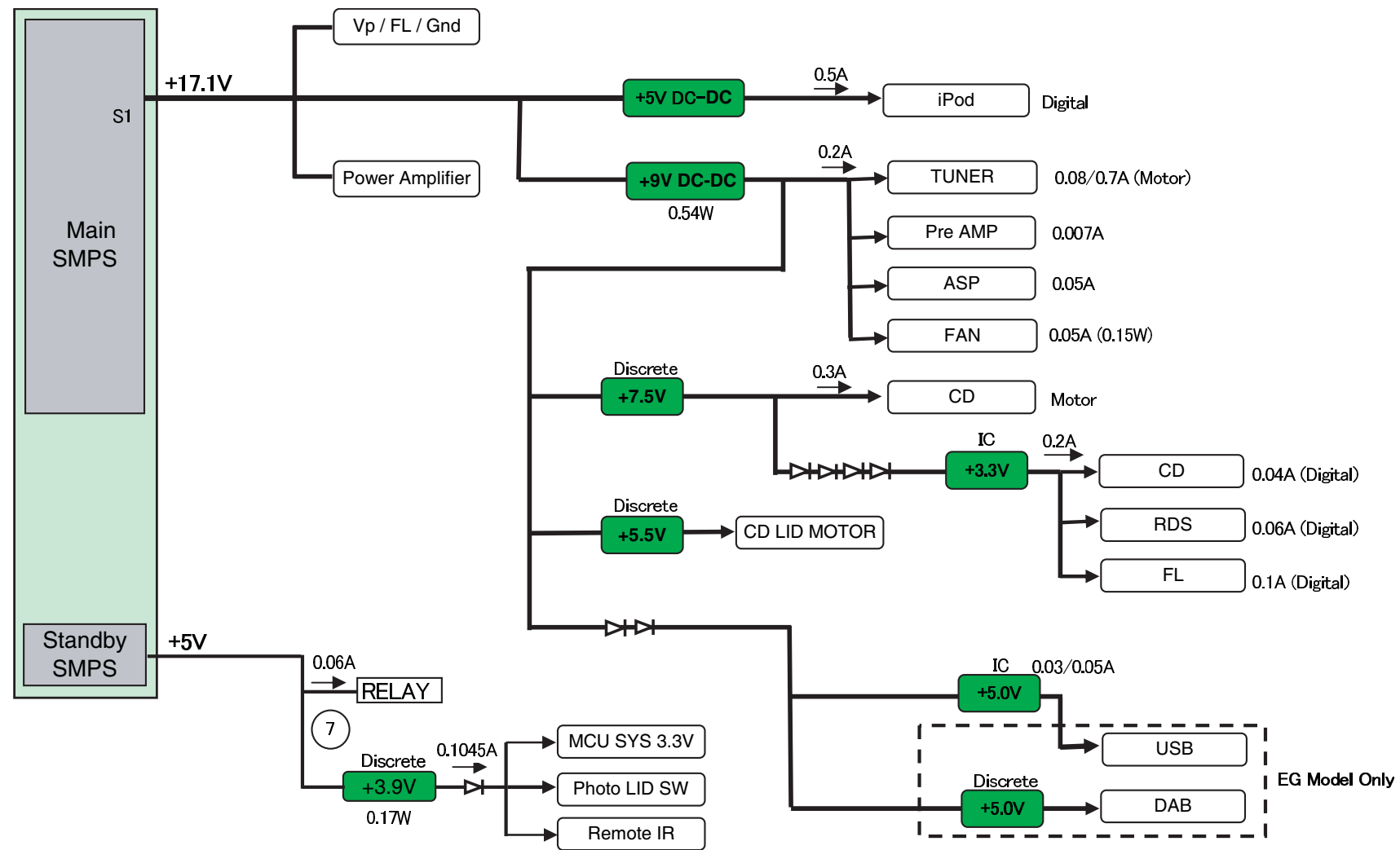
12 Illustration of IC's, Transistors and Diodes

C1AB00003012 (44P) C1AB00002751 (16P) C0ABBB000230 (8P) 	B0ADCJ000020 	C0CBCBD00008 C0CBCBC00090 	C1AB00003013 (52P) C0HBB0000057 (44P) MN6627954AMA (100P) RFKWMMAHC3-S (100P) 	C0DAEMZ00001 	C0DAAMH00015 
C0GAE0000007 	C0DBAYH00005 	C0AABB000085 	BA5948FPE2 (28P) 	MIP2F20MSSCF 	C3ABMB000050 (26P) 
C0EBE0000482 C0EBJ0000336 	B1BAAJ000003 B1ACND000003 B1BABK000001 	B1ACKD000006 	B1ABCF000176 B1ABEC000010 B1ADCF000001 UNR521100L 	B1ABGC000005 B1ADCE000012 B1GBCFJJ0051 B1GDCFGG0026 B1ABDF000026 UNR221300L UNR521300L UNR511100L 	B0BC5R600003 B0BC7R5A0266 
MAZ8033GLL MAZ8270GLL MAZ83000ML MAZ80300LL MA2J72800L 	B0EBNR000015 	B0ZAZ0000052 B0HBSM000052 	MA2SD320GL B0JCMD000010 	MA2J1110GL MA2J11100L MAZ8180GML MAZ80560ML MAZ8033G0L B0BC6R100010 B0JCPD000043 B0ACCK000005	
B0EDKT000009 	B0EAMM000057 B0JAME000029 	B0JAMF000011 B0HAMP000094 	B0HAJM000005 B0JCME000035 B0HCM0000019 	B3AAB0000144 	

13 Overall Simplified Block

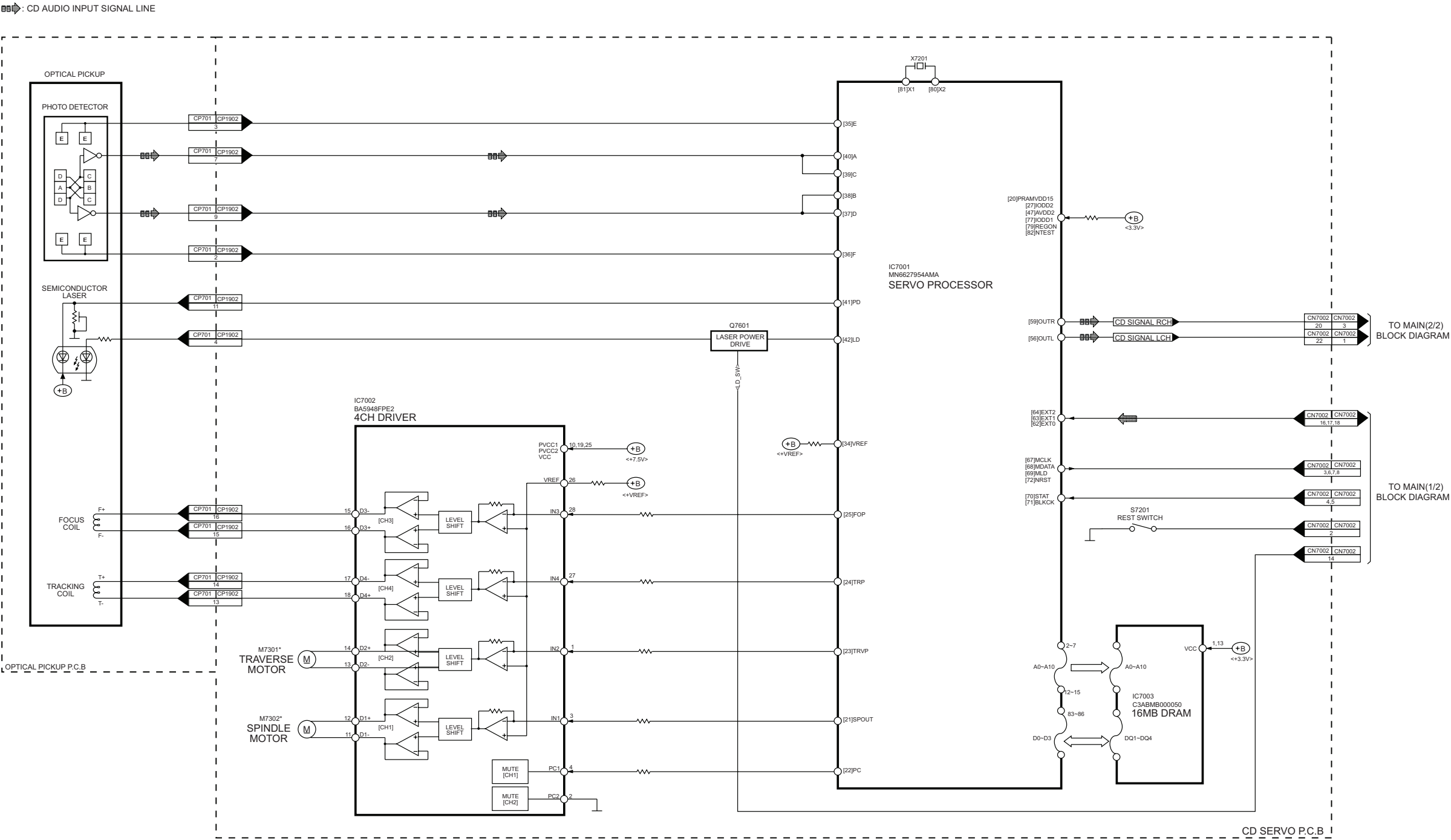






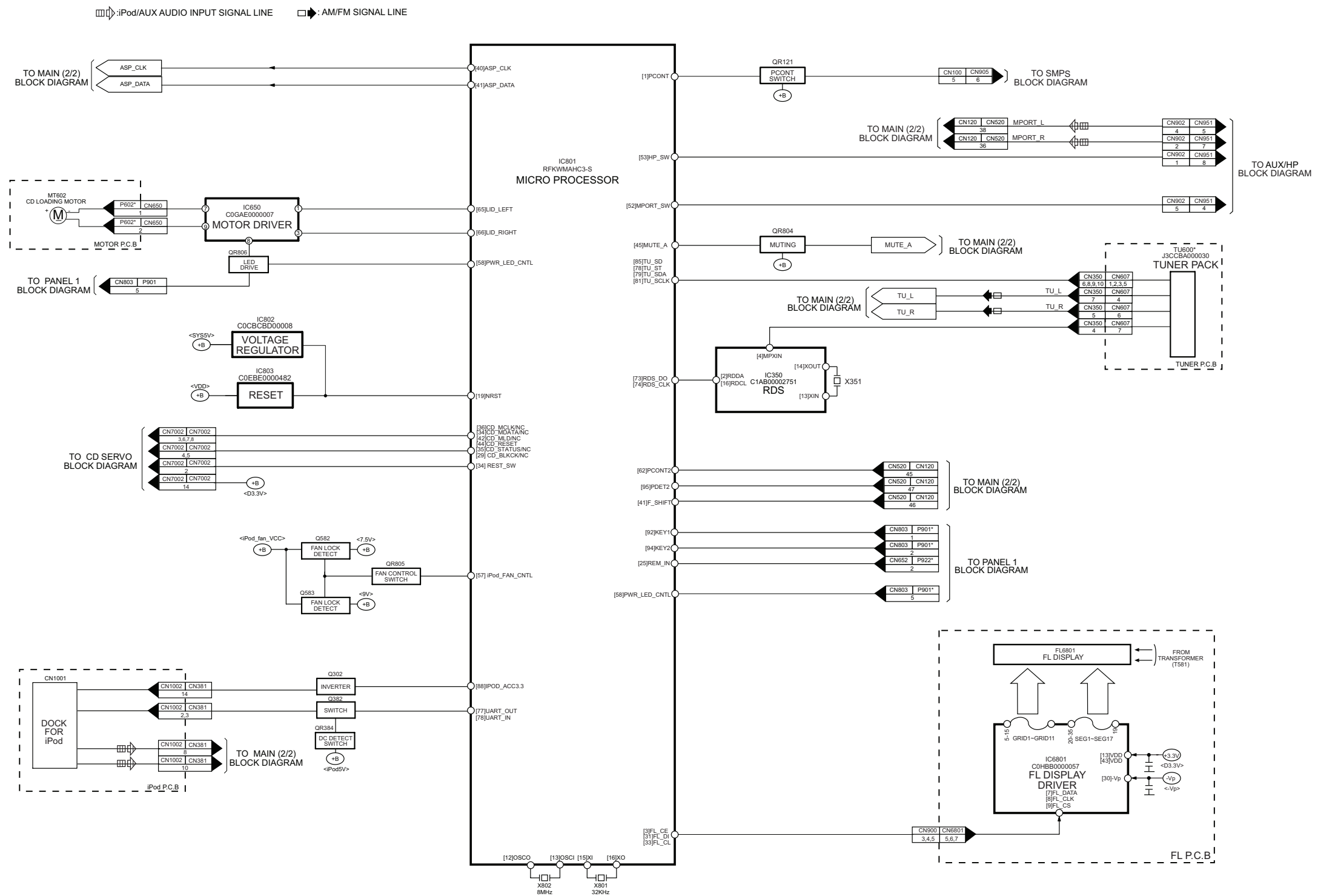
14 Block Diagram

14.1. CD SERVO BLOCK DIAGRAM



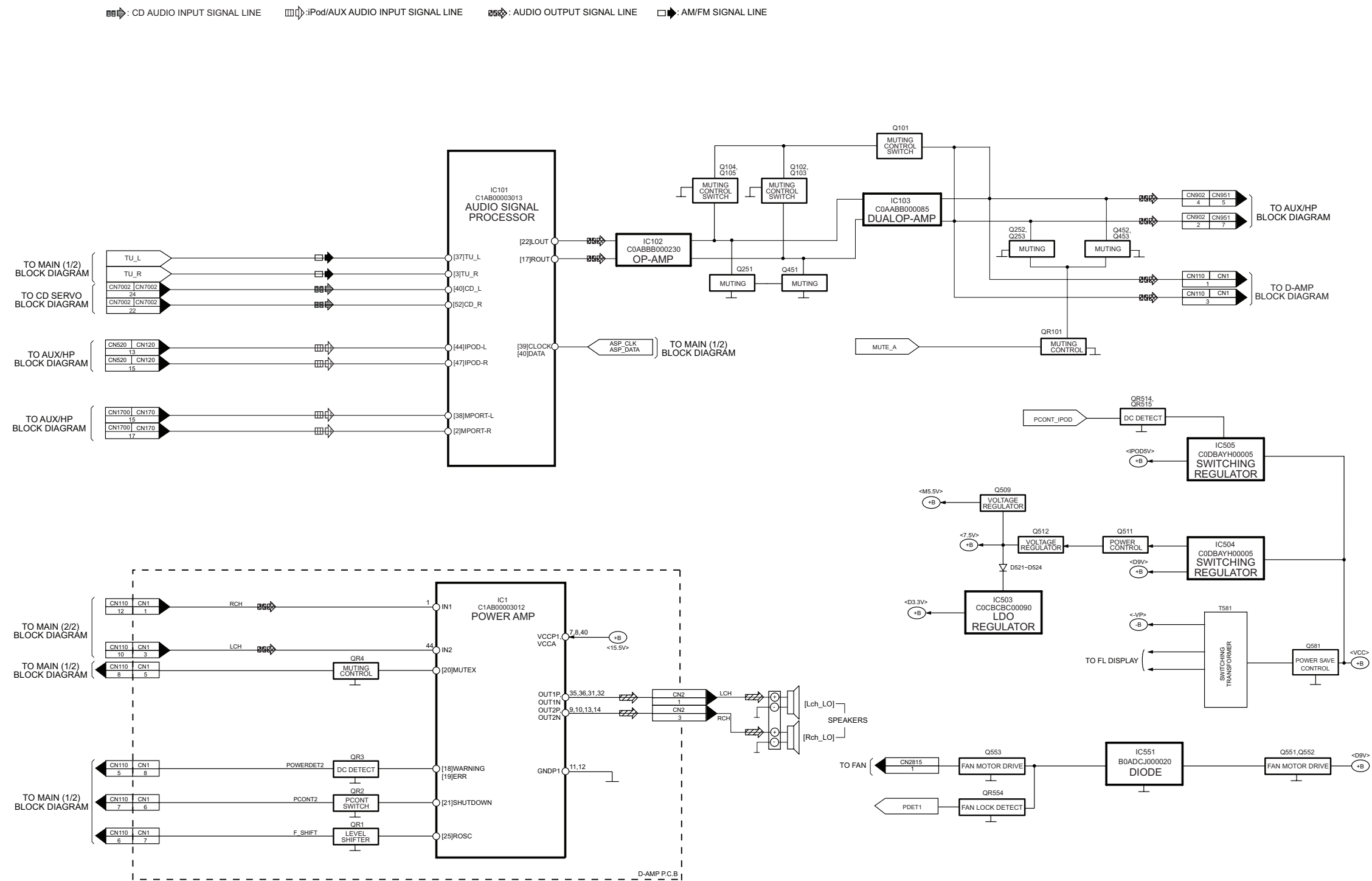
SC-HC3EB/EG/EF CD SERVO BLOCK DIAGRAM

14.2. MAIN (1/2) / TUNER / iPod / FL / MOTOR BLOCK DIAGRAM



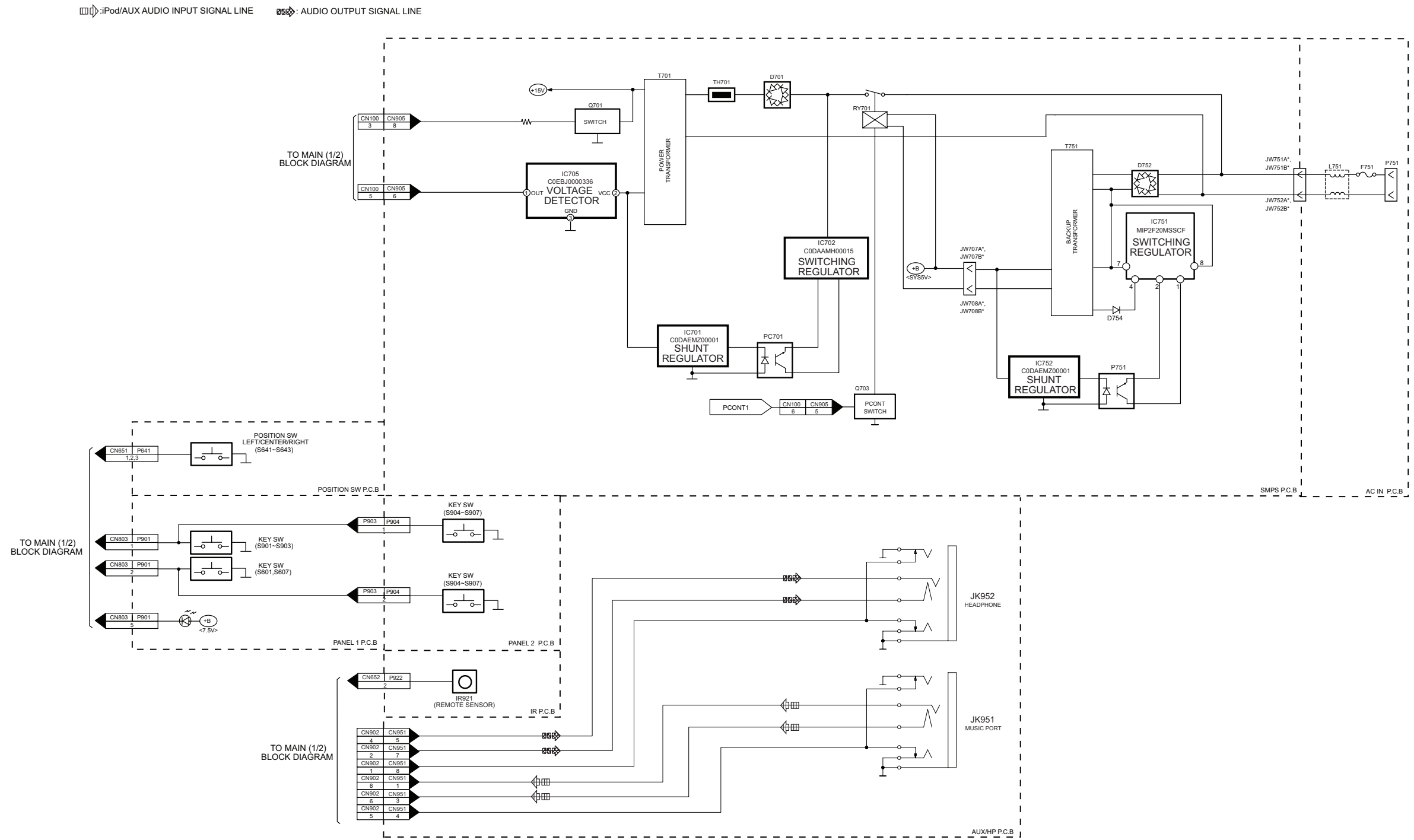
SC-HC3EB/EG/EF MAIN (1/2) / TUNER / iPod / FL / MOTOR BLOCK DIAGRAM

14.3. MAIN (2/2) / D-AMP BLOCK DIAGRAM



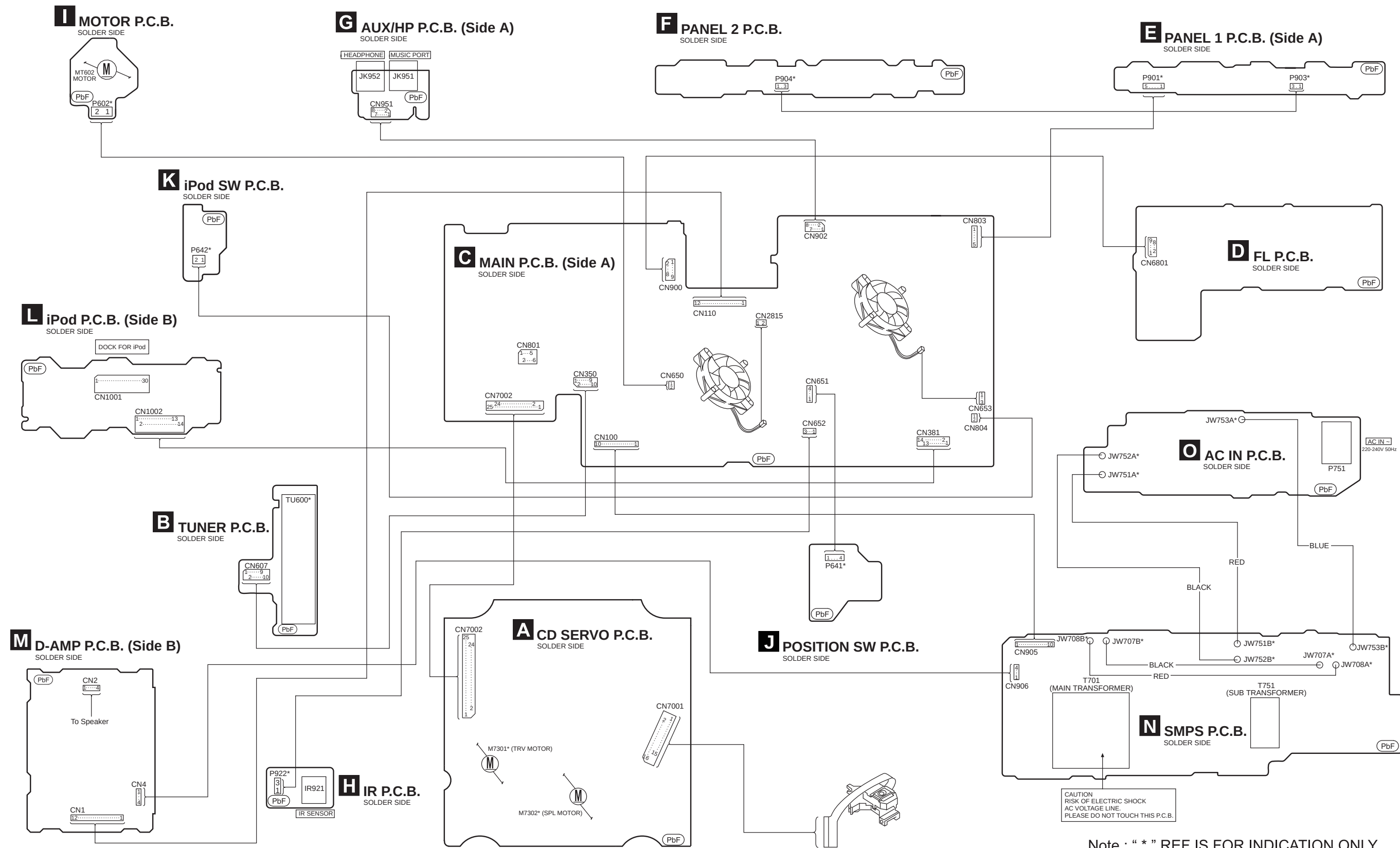
SC-HC3EB/EG/EF MAIN (2/2) / D-AMP BLOCK DIAGRAM

14.4. PANEL1/2 / AUX/HP / IR / SMPS / AC IN BLOCK DIAGRAM



SC-HC3EB/EG/EF PANEL1/2 / AUX/HP / IR / SMPS / AC IN BLOCK DIAGRAM

15 Wiring Connection Diagram



Note : “ * ” REF IS FOR INDICATION ONLY.

16 Schematic Diagram Notes

(All schematic diagrams may be modified at any time with the development of new technology)

Notes:

S641:	LEFT switch.
S642:	CENTER switch.
S643:	RIGHT switch.
S644:	iPod DOCK OPEN switch.
S901:	POWER switch ().
S902:	iPod OPEN/CLOSE switch (iPod ).
S903:	iPod PLAY/PAUSE switch (iPod ).
S904:	FM/AM switch.
S905:	Aux switch.
S906:	CD PLAY/PAUSE switch (CD ).
S907:	CD OPEN/CLOSE switch (CD ).
S911:	REV SKIP switch ().
S912:	FWD SKIP switch ().
S913:	STOP switch ().
S914:	VOL- switch.
S915:	VOL+ switch ().
S916:	SD REC D.BASS switch.
S7201:	REST switch.

- * Ref Is For Indication Only.

• Importance 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.

- Capacitor values are in microfarad(μF) unless specified otherwise, F=Farad, pF=Pico-Farad
Resistance values are in ohm(Ω), unless specified otherwise, 1K=1,000 Ω , 1M=1,000K Ω

• Voltage and Signal lines:

	: +B Signal Line
	: CD Audio Input Signal Line
	: AM/FM Signal Line
	: -B Signal Line
	: iPod/Aux Audio Input Signal Line
	: Audio Output Signal Line

FUSE CAUTION



These symbols located near the fuse indicates that the fuse used is a fast operating type. For continued protection against fire hazard, replace with the same type fuse. For fuse rating, refer to the marking adjacent to the symbol.

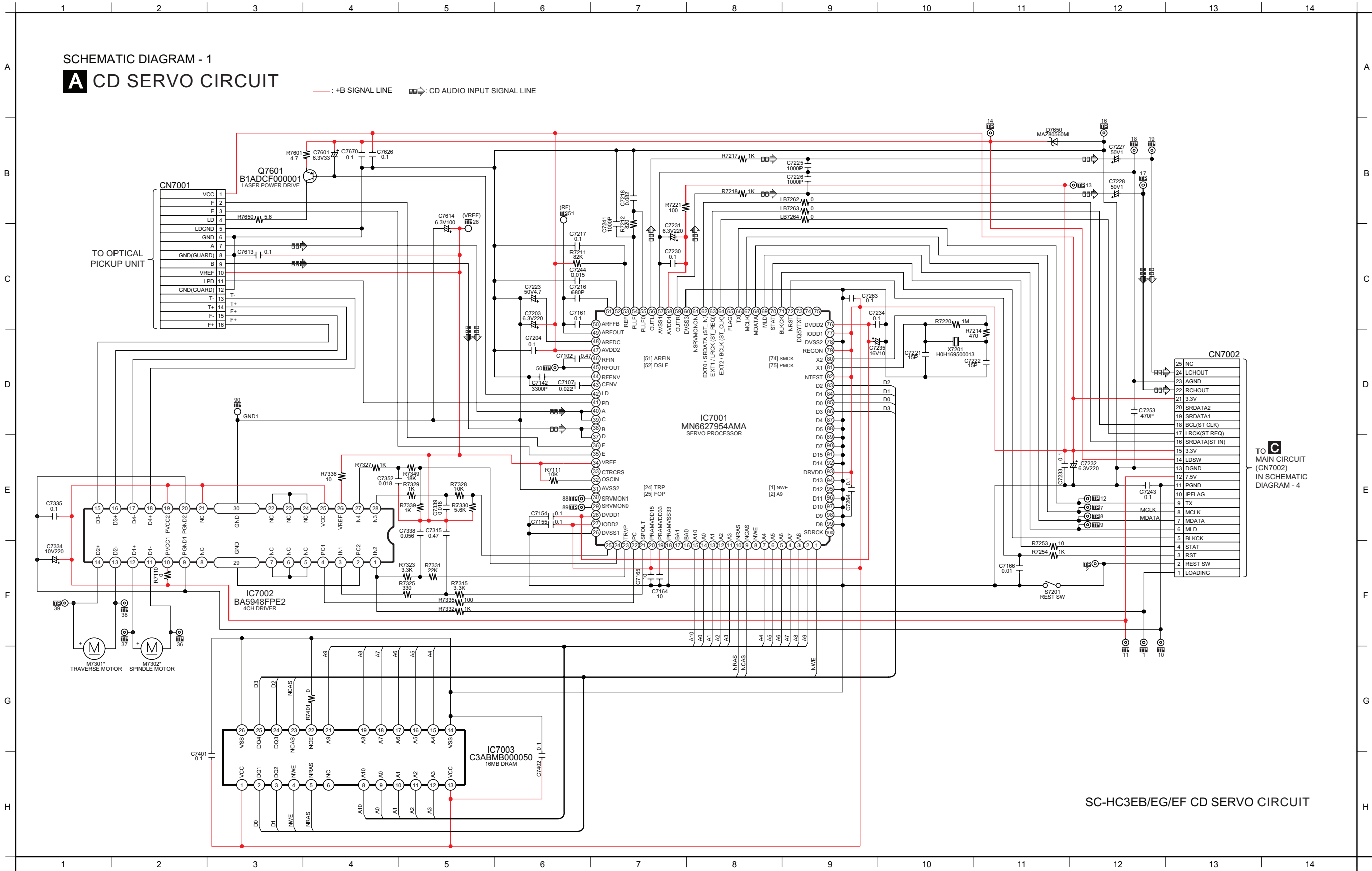
CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE F751 T1.6AL, 250V FUSE



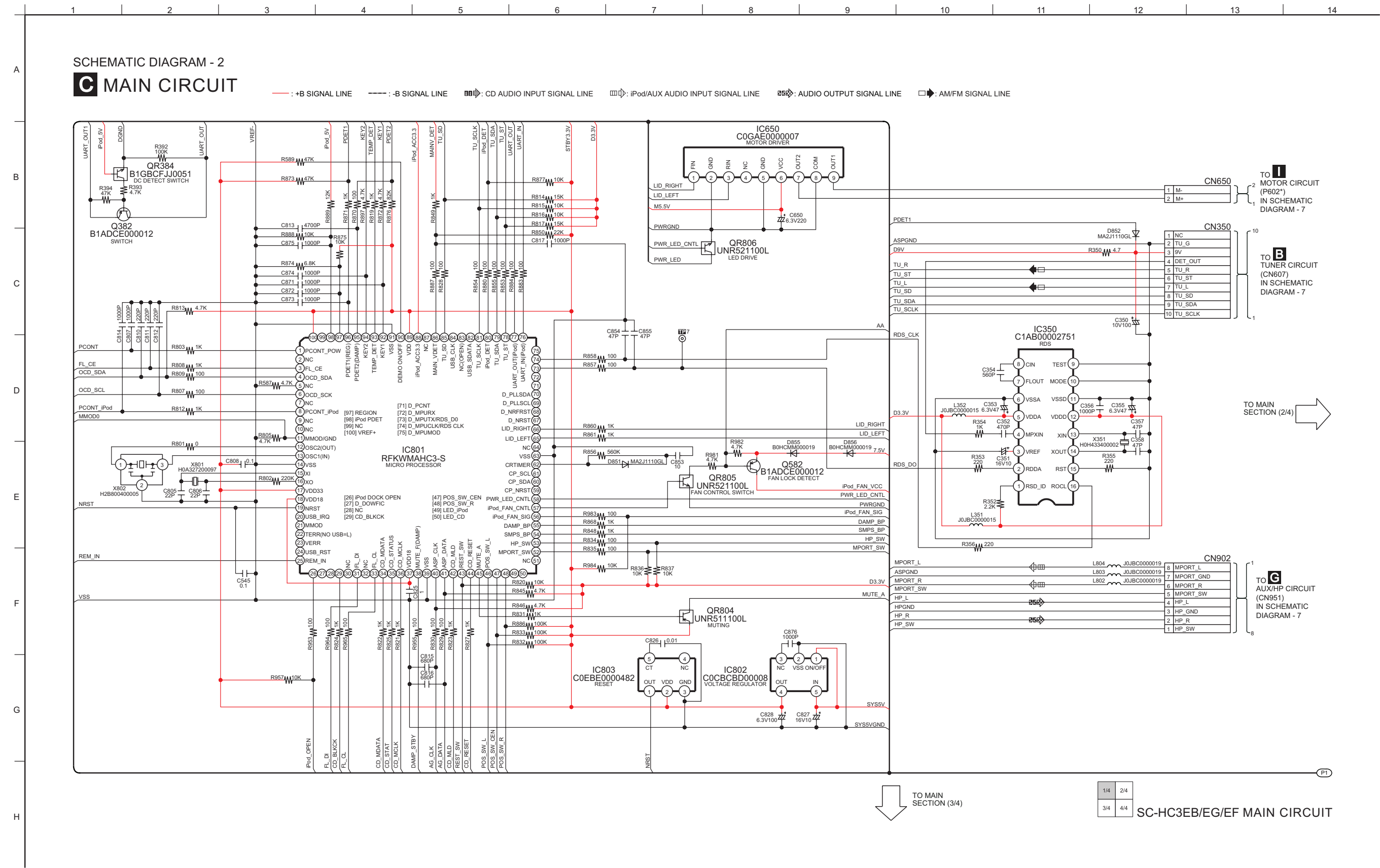
RISK OF FIRE-REPLACE FUSE AS MARKED.

17 Schematic Diagram

17.1. CD SERVO CIRCUIT



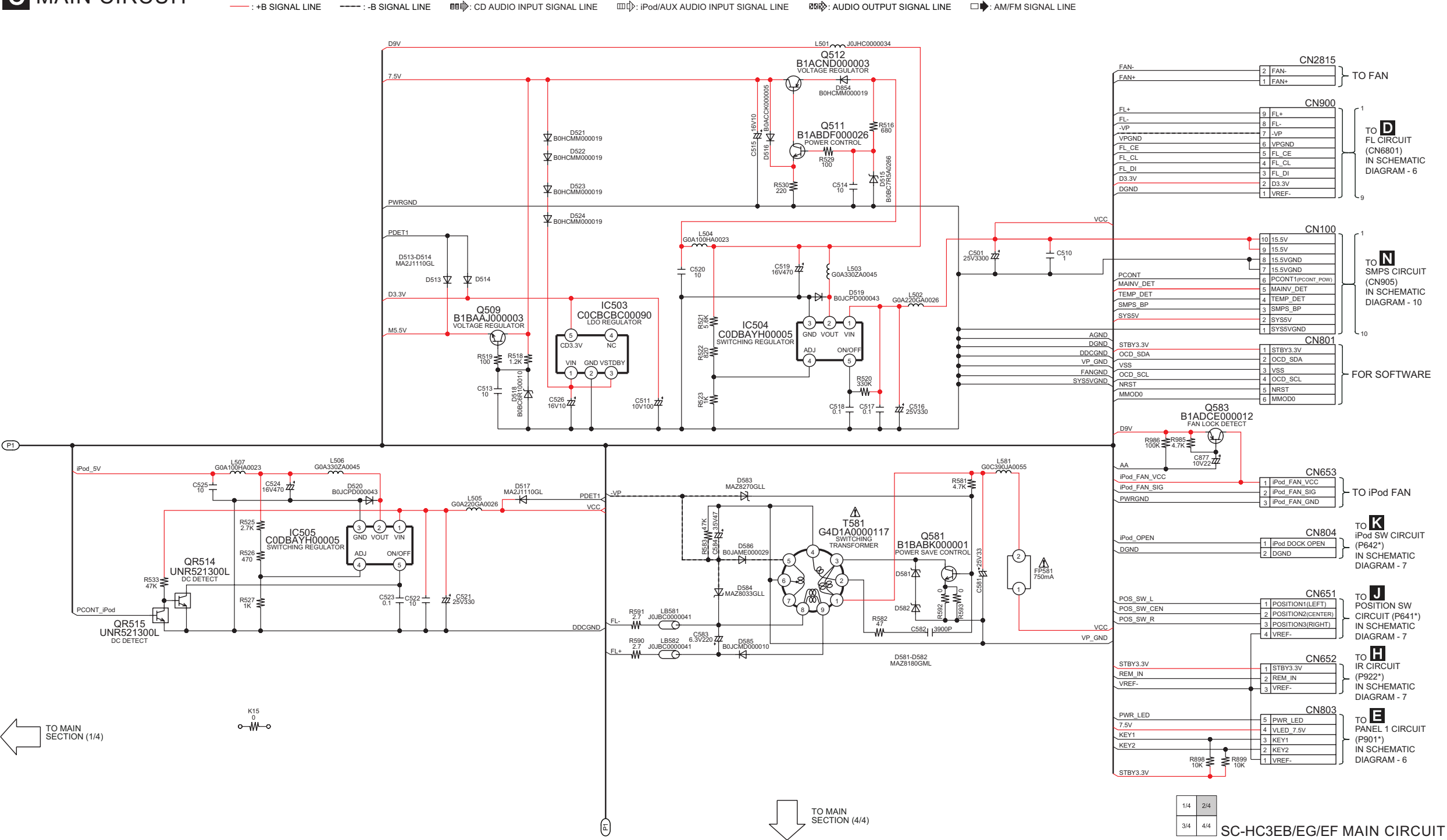
17.2. MAIN CIRCUIT (1/4)



17.3. MAIN CIRCUIT (2/4)

SCHEMATIC DIAGRAM - 3

C MAIN CIRCUIT

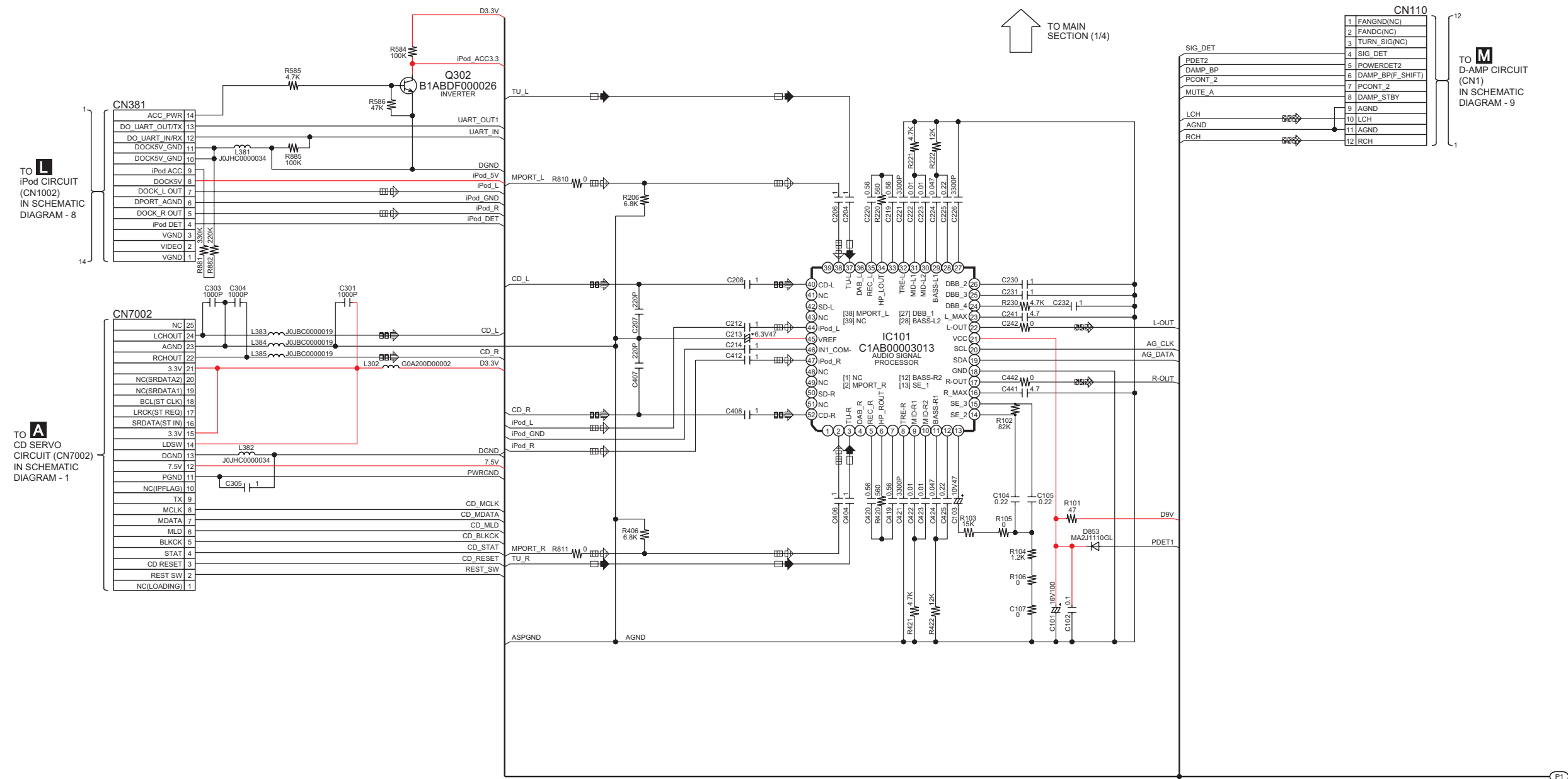


17.4. MAIN CIRCUIT (3/4)

SCHEMATIC DIAGRAM - 4

C MAIN CIRCUIT

— : +B SIGNAL LINE — : -B SIGNAL LINE : CD AUDIO INPUT SIGNAL LINE : iPod/AUX AUDIO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : AM/FM SIGNAL LINE



TO **L**
iPod CIRCUIT
(CN1002)
IN SCHEMATIC
DIAGRAM - 8

TO **A**
CD SERVO
CIRCUIT (CN7002)
IN SCHEMATIC
DIAGRAM - 1

↑ TO MAIN
SECTION (1/4)

1	FANGND(NC)
2	FANDC(NC)
3	TURN_SIG(NC)
4	SIG_DET
5	POWERDET2
6	DAMP_BPF_SHIFT
7	PCONT_2
8	DAMP_STBY
9	AGND
10	LCH
11	AGND
12	RCH

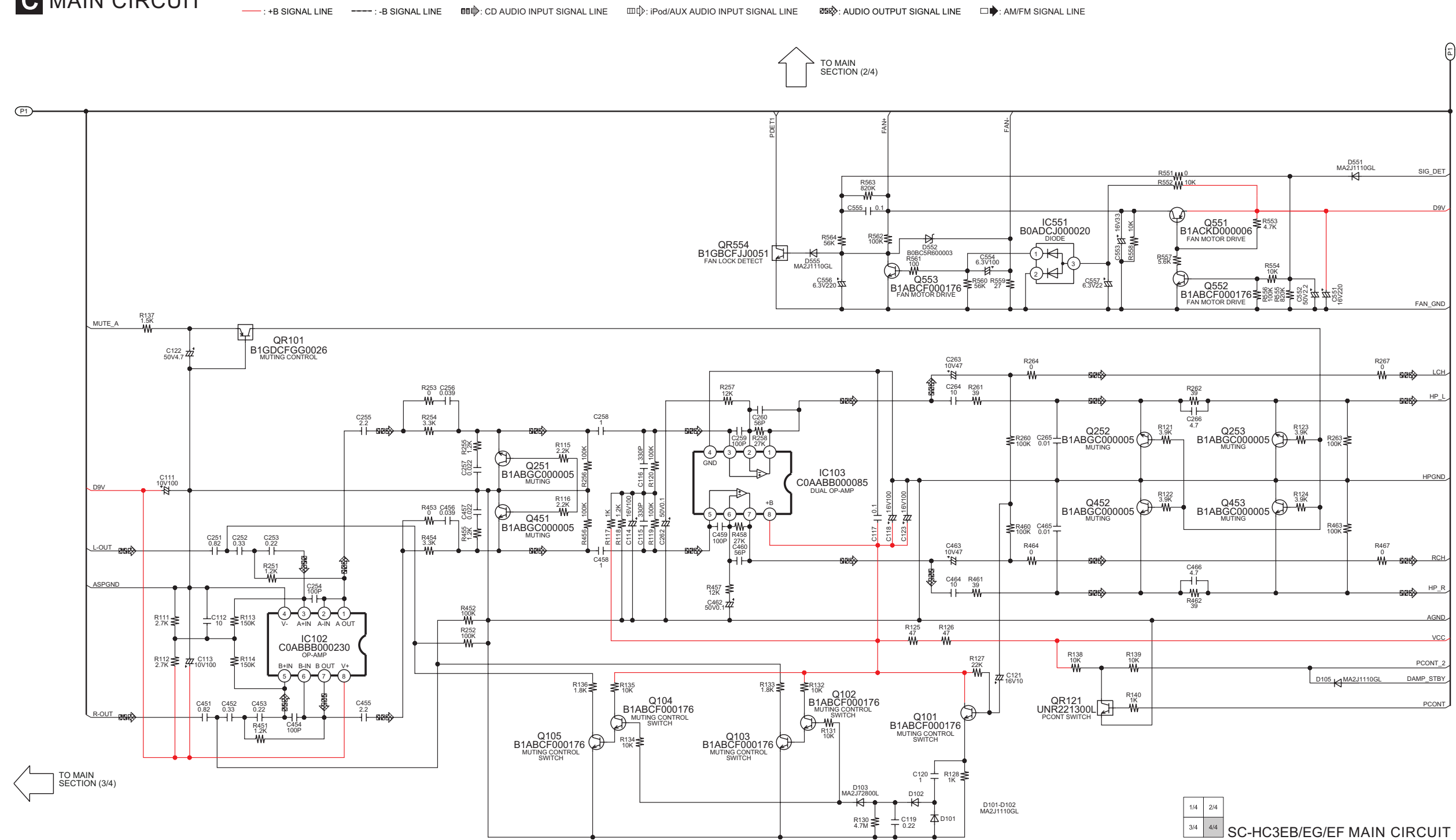
TO **M**
D-AMP CIRCUIT
(CN1)
IN SCHEMATIC
DIAGRAM - 9

TO MAIN
SECTION (4/4)

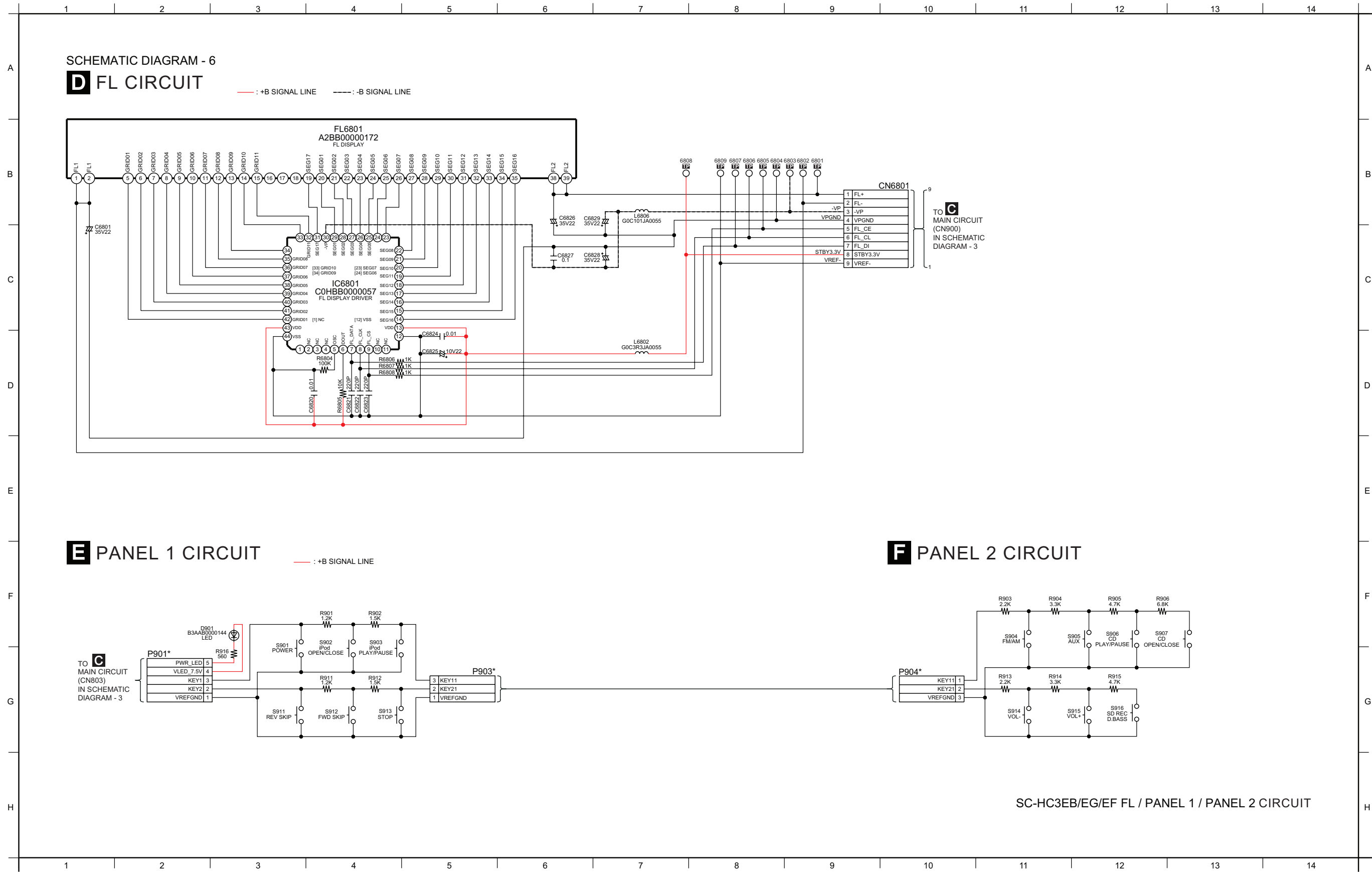
17.5. MAIN CIRCUIT (4/4)

SCHEMATIC DIAGRAM - 5

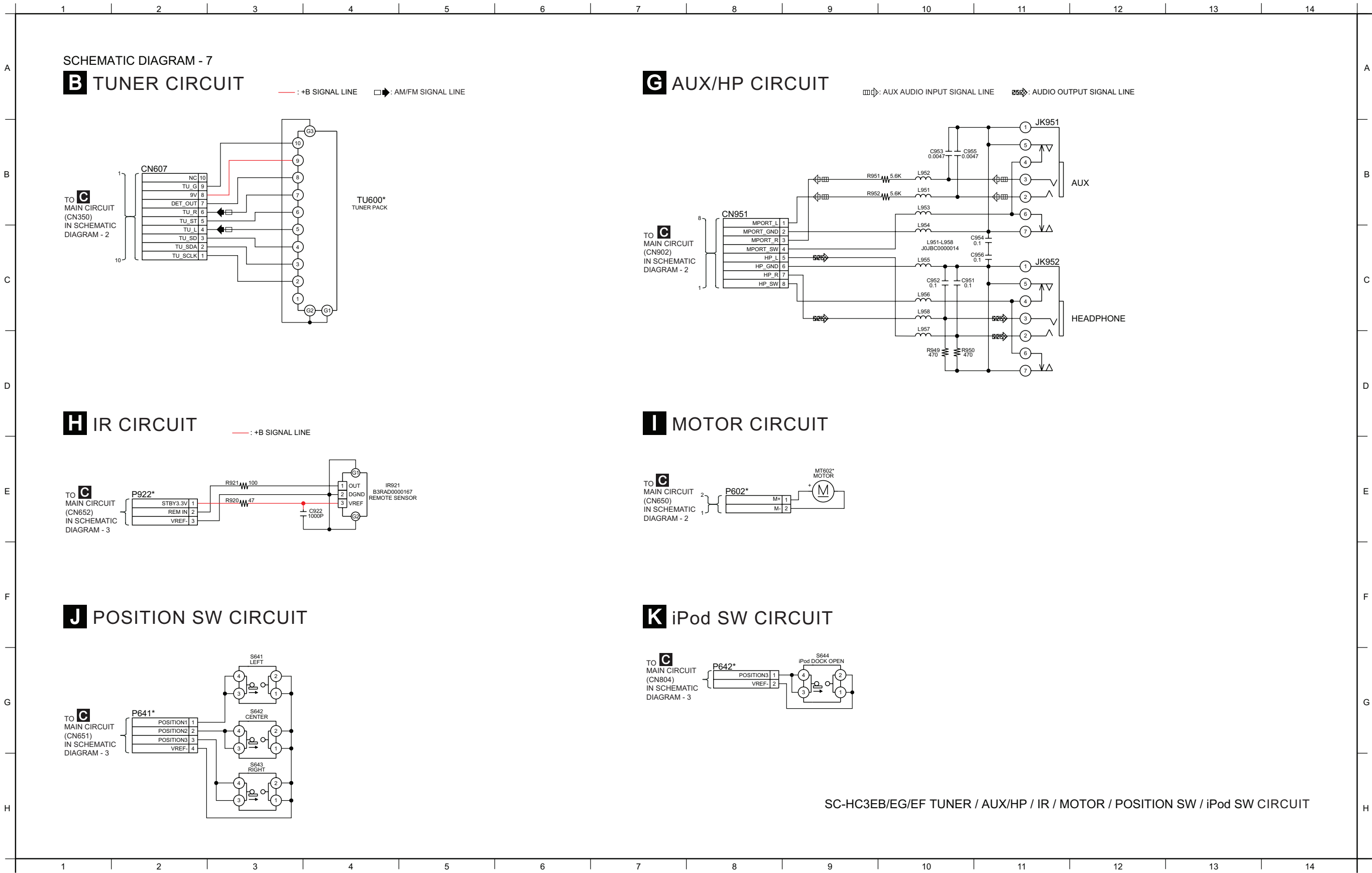
C MAIN CIRCUIT



17.6. FL CIRCUIT, PANEL 1 CIRCUIT and PANEL 2 CIRCUIT



17.7. TUNER CIRCUIT, AUX/HP CIRCUIT, IR CIRCUIT, MOTOR CIRCUIT, POSITION SW CIRCUIT and iPod SW CIRCUIT

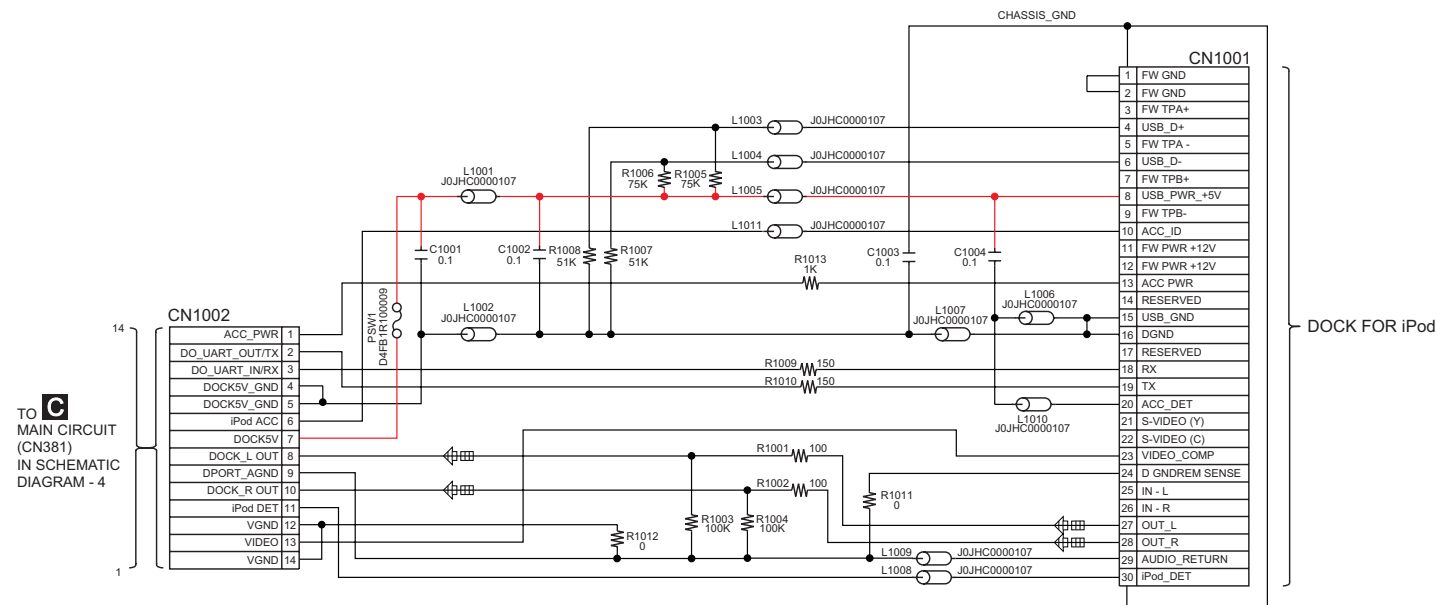


17.8. iPod CIRCUIT and AC IN CIRCUIT

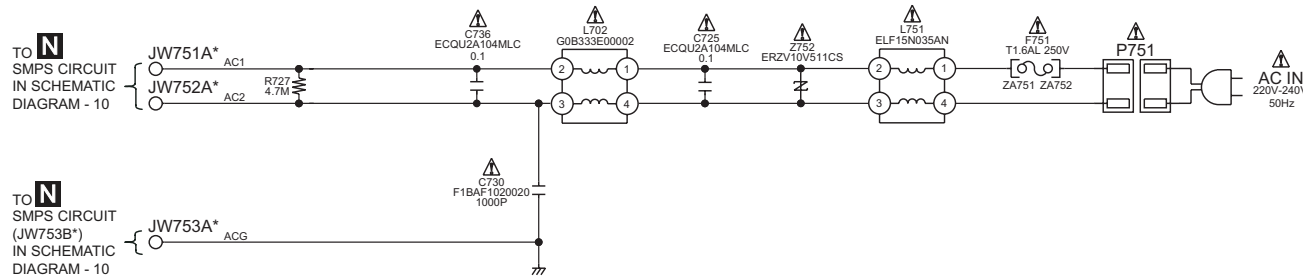
SCHEMATIC DIAGRAM - 8

L iPod CIRCUIT

— : +B SIGNAL LINE  : iPod AUDIO INPUT SIGNAL LINE

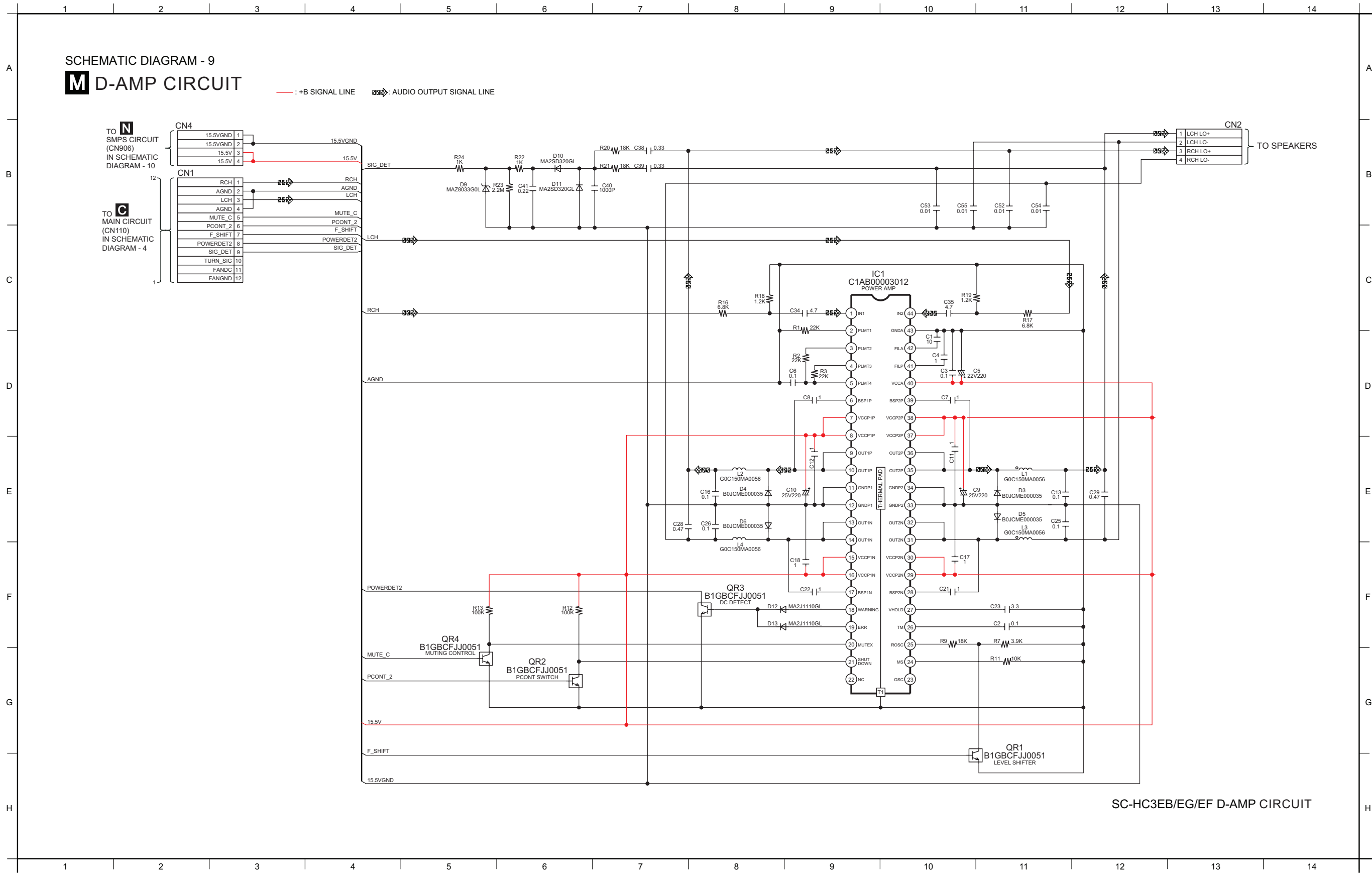


O AC IN CIRCUIT

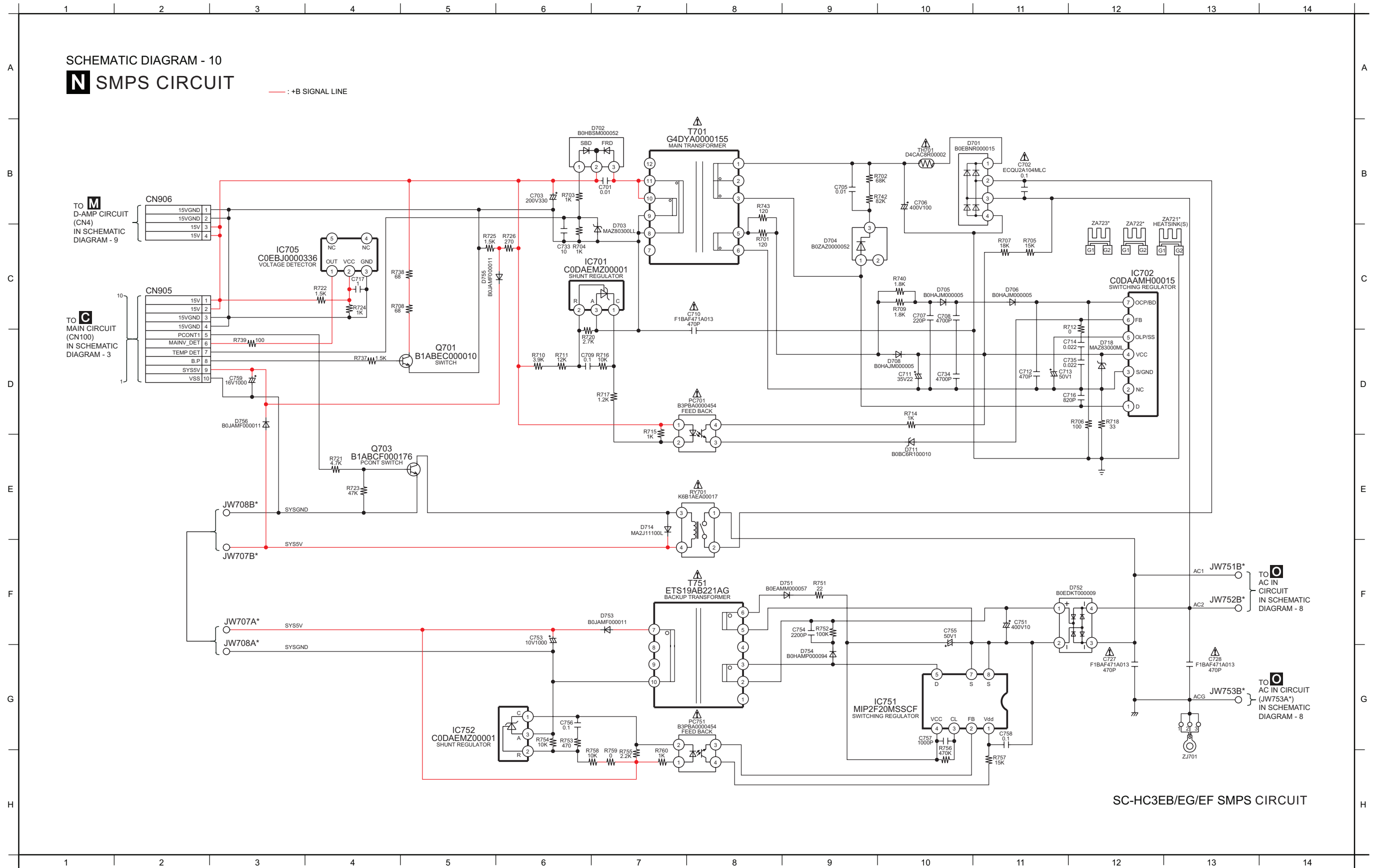


SC-HC3EB/EG/EF iPod / AC IN CIRCUIT

17.9. D-AMP CIRCUIT

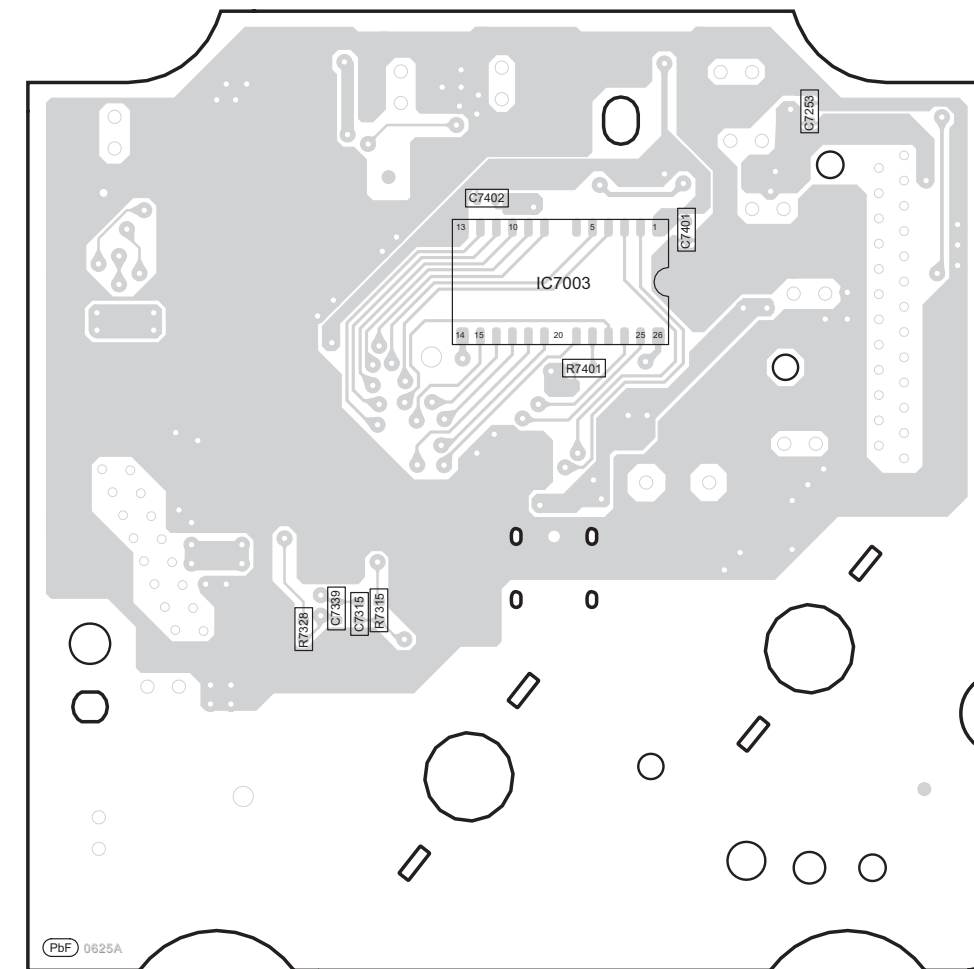


17.10. SMPS CIRCUIT



18.1. CD SERVO P.C.B.

C



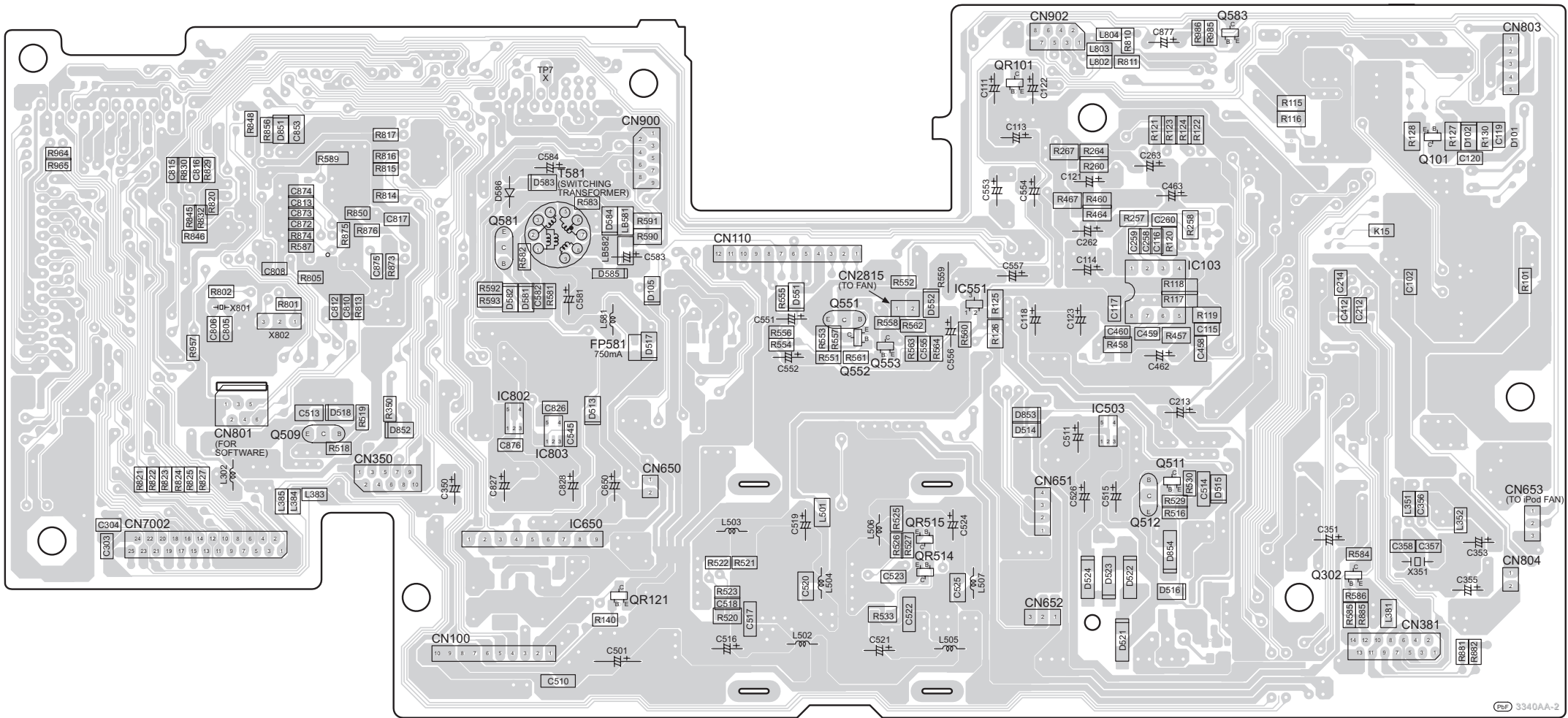
C

A

A

18.2. MAIN P.C.B. (1/2)

C MAIN P.C.B. (REPX0754B)



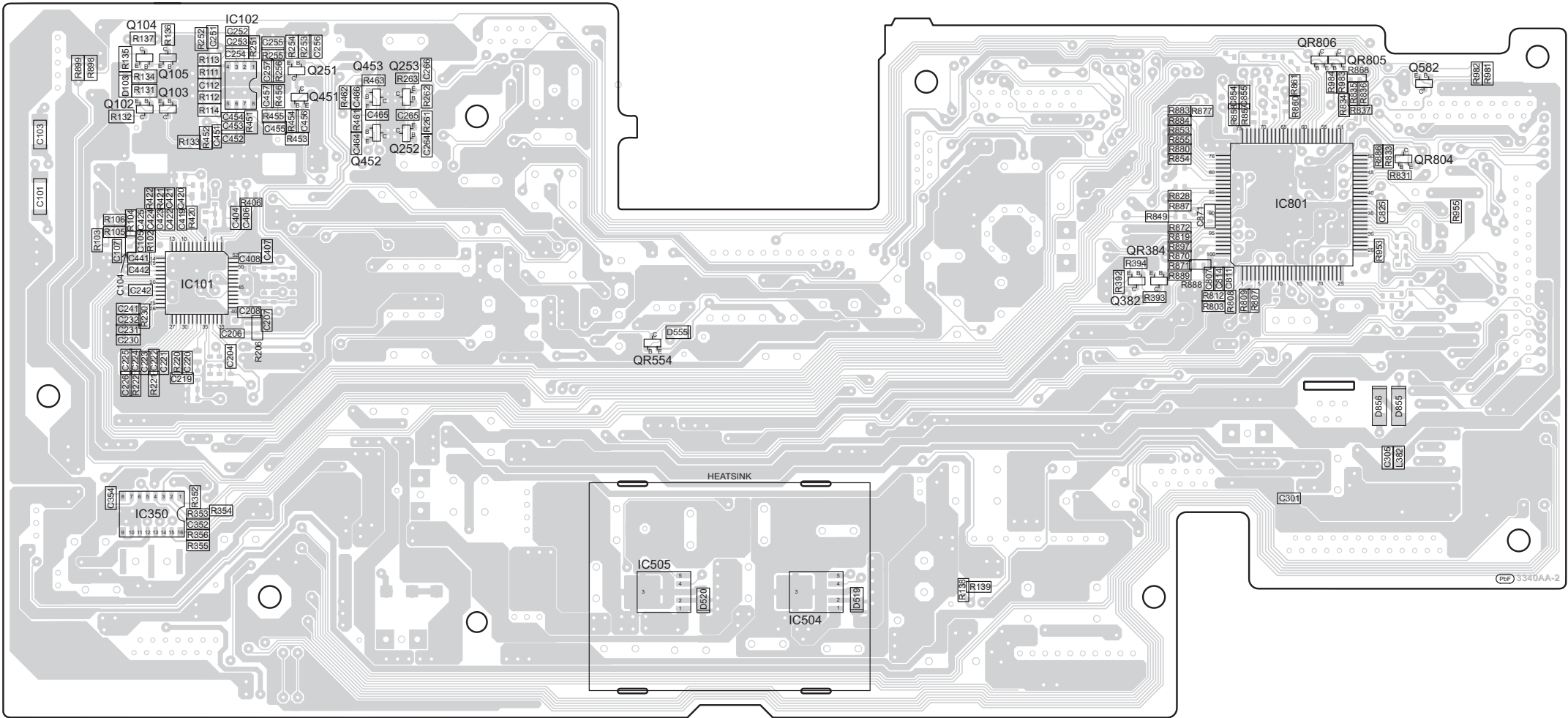
(SIDE A)

SC-HC3EB/EG/EF
MAIN P.C.B.

18.3. MAIN P.C.B. (2/2)

H
G
F
E
D
C
B
A

C MAIN P.C.B. (REPX0754B)



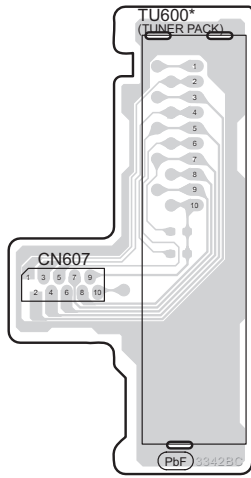
(SIDE B)

SC-HC3EB/EG/EF
MAIN P.C.B.

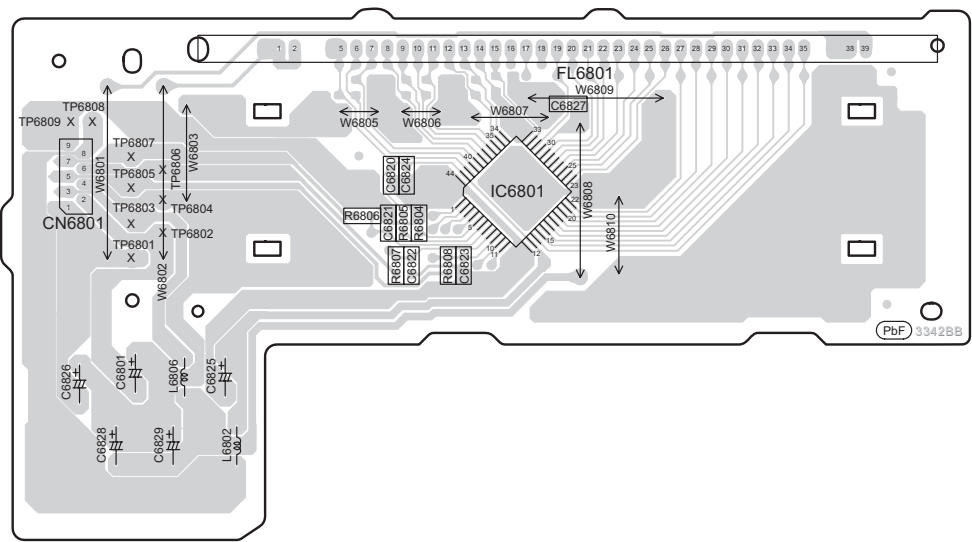
1 2 3 4 5 6 7 8 9 10 11 12 13

18.4. TUNER P.C.B., FL P.C.B., PANEL 1 P.C.B., PANEL 2 P.C.B., AUX/HP P.C.B. and IR P.C.B.

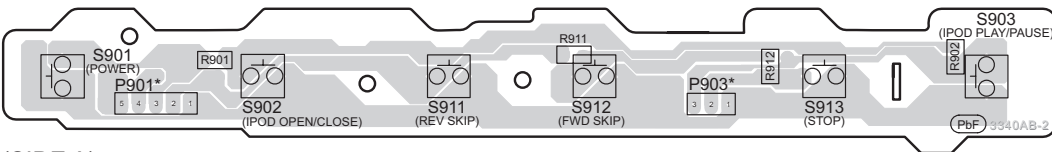
B TUNER P.C.B. (REPX0755B)



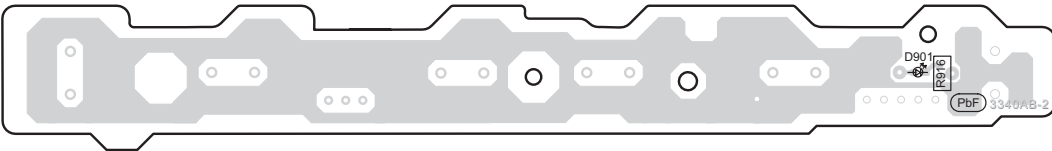
D FL P.C.B. (REPX0755B)



E PANEL 1 P.C.B. (REPX0754B)

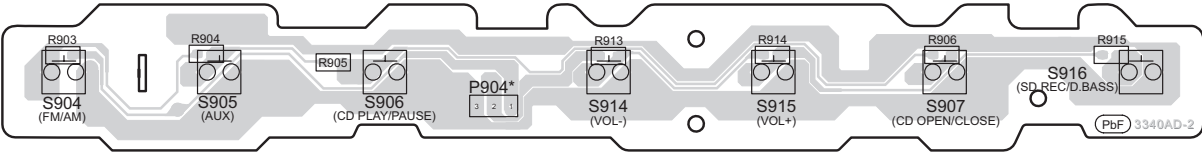


(SIDE A)



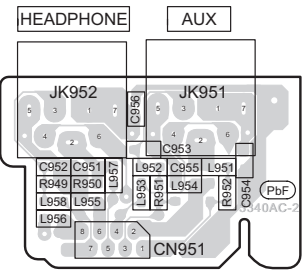
(SIDE B)

F PANEL 2 P.C.B. (REPX0754B)

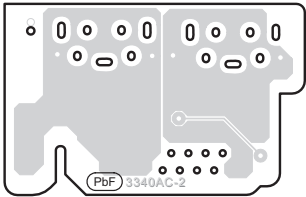


NOTE: " * " REF IS FOR INDICATION ONLY

G AUX/HP P.C.B. (REPX0754B)

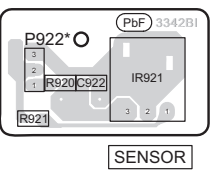


(SIDE A)



(SIDE B)

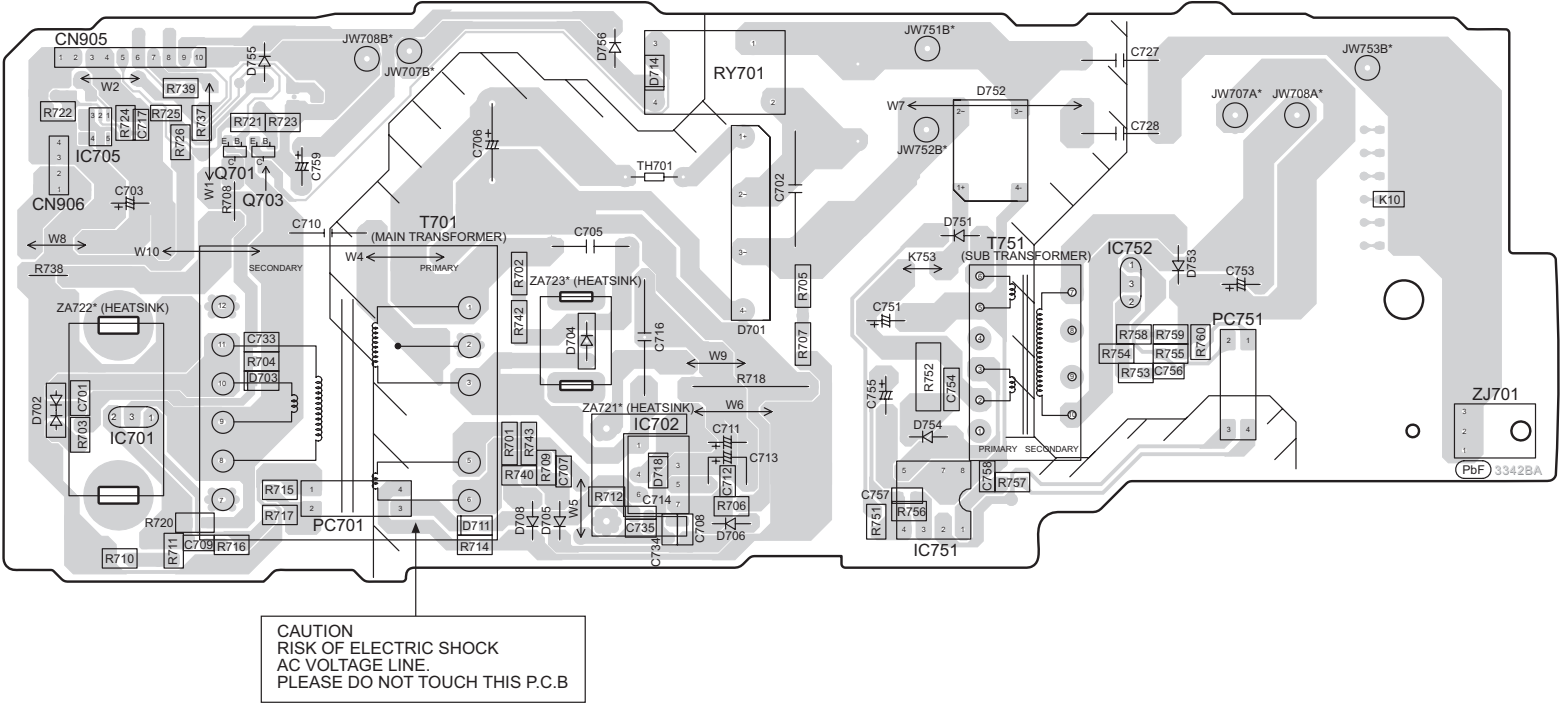
H IR P.C.B. (REPX0755B)



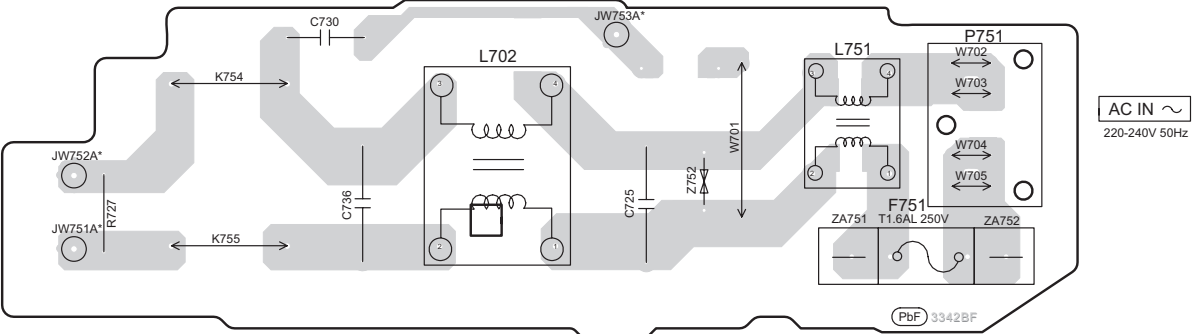
SC-HC3EB/EG/EF
TUNER/ FL/ PANEL 1/ PANEL 2/ AUX/HP/ IR P.C.B.

18.6. SMPS P.C.B. and AC IN P.C.B.

N SMPS P.C.B. (REPX0755B)



O AC IN P.C.B. (REPX0755B)



NOTE: " * " REF IS FOR INDICATION ONLY

SC-HC3EB/EG/EF
SMPS/ AC IN P.C.B.

19 Terminal Function of IC's

19.1. IC801 (RFKWMABC3-S) MICRO PROCESSOR IC

Pin No.	Mark	I/O	Function
1	PCONT_POW	O	Power Control
2	NC	-	No connection
3	FL_CE	O	FL Display Chip Enable
4	OCD_SDA	O	On Chip Debugger Data
5	NC	-	No connection
6	OCD_SCK	O	On Chip Debugger Clock
7	NC	-	No connection
8	PCONT_iPod	I/O	iPod POWER CONTROL
9	NC	-	No connection
10	NC	-	No connection
11	MMOD0/GND	I	Ground
12	OSC2(OUT)	O	Main Oscillator output
13	OSC1(IN)	I	Main Oscillator input
14	VSS	-	Ground
15	XI	I	Slow Oscillator I/P
16	XO	O	Slow Oscillator O/P
17	VDD33	-	3.3V Voltage Supply
18	VDD18	-	1.8V Voltage Supply
19	NRST	I	Micro-P Reset
20	USB_IRQ	-	No connection
21	MMOD	-	No connection
22	TERR(NO USB=L)	-	No connection
23	VERR	-	No connection
24	USB_RST	-	No connection
25	REM_IN	I	Remote Control Input
26	iPod DOCK OPEN	I	iPod Docking Open Detect
27	D_DOWFIC	-	No connection
28	NC	-	No connection
29	CD_BLKCK	I	CD Subcode Block Clock Input
30	NC	-	No connection
31	FL_DI	O	FL Data I/P
32	NC	-	No connection
33	FL_CLK	O	FL Clock O/P
34	CD_MDATA	O	CD LSI Command Data
35	CD_STATUS	I	CD LSI Status Input
36	CD_MCLK	O	CD LSI Command Clock
37	VDD18	-	1.8V Voltage Supply
38	MUTE_F(DAMP)	O	D-AMP Muting Control
39	VSS	-	Ground
40	ASP_CLK	I/O	ASPC Clock
41	ASP_DATA	O	ASPC Data
42	CD_MLD	O	CD LSI Command Load
43	REST_SW	O	CD Rest Switch
44	CD_RESET	O	CD Reset
45	MUTE_A	O	Audio muting
46	POS_SW_L	I	Position Switch Left Control
47	POS_SW_CEN	I	Position Switch Center Control
48	POS_SW_R	I	Position Switch Right Control
49	NC	-	No connection
50	NC	-	No connection
51	NC	-	No connection
52	MPORT_SW	O	Music Port Switch
53	HP_SW	O	Headphone Switch
54	SMPS_BP	O	SMPS Beatproof
55	DAMP_BP	O	D-AMP Beatproof
56	iPod_FAN_SIG	O	iPod Fan Signal
57	iPod_FAN_CNT R	O	iPod Fan Control
58	PWR_LED_CNT R	O	Power Led Control

Pin No.	Mark	I/O	Function
59	CP_NRST	-	No connection
60	CO_SDA	-	No connection
61	CP_SCL	-	No connection
62	CRTIMER	I	CR Timer
63	VSS	-	GND
64	NC	-	No connection
65	LID_LEFT	O	CD LID Left
66	LID_RIGHT	O	CD LID Right
67	D_NRST	-	No connection
68	D_NRFRST	-	No connection
69	D_PLLSCL	-	No connection
70	D_PLSDA	-	No connection
71	DAB_PON	-	No connection
72	D_MPURX	-	No connection
73	D_MPUTX/ RDS_DO	O	RDS Data
74	D_MPUCLK/ RDS_CLK	O	RDS Clock
75	D_MPUMOD	-	No connection
76	UART_IN(iPod)	O	Serial UART I/P Communication (iPod)
77	UART_OUT(iPod)	I	Serial UART O/P Communication (iPod)
78	TU_ST	I	Tuner Stereo Signal
79	TU_SDA	O	IIC Serial Data for Tuner (PLL Data I/O)
80	iPod_DET	I	iPod detection. (Output L if NO iPod)
81	TU_SCLK	O	IIC Serial Clock for Tuner (PLL Clock Output)
82	USB_SDATA	-	No connection
83	NC	-	No connection
84	USB_CLK	-	No connection
85	TU_SD	I	Tuner Stereo Detect
86	MAINV_DET	O	Main Supply Voltage Detect
87	NC	-	No connection
88	iPod_ACC3.3	-	3.3V Voltage Supply (For iPod)
89	VDD	-	Micro-P +5V Voltage Supply
90	DEMO ON/OFF	I	Demo Setting
91	VSS	-	GND
92	KEY1	I	Key 1 input
93	TEMP_DET	I	Temperature Detect
94	KEY2	I	Key 2 Input
95	PDET2(DAMP)	I	Power Detect 2 (For D-AMP)
96	PDET1(REG)	I	Power Detect 1
97	REGION	I	Region Setting
98	iPod_PDET	I	iPod Power Detect
99	NC	-	No connection
100	VREF+	-	3.3V Reference Voltage

19.2. IC7001 (MN6627954AMA) IC SERVO PROCESSOR

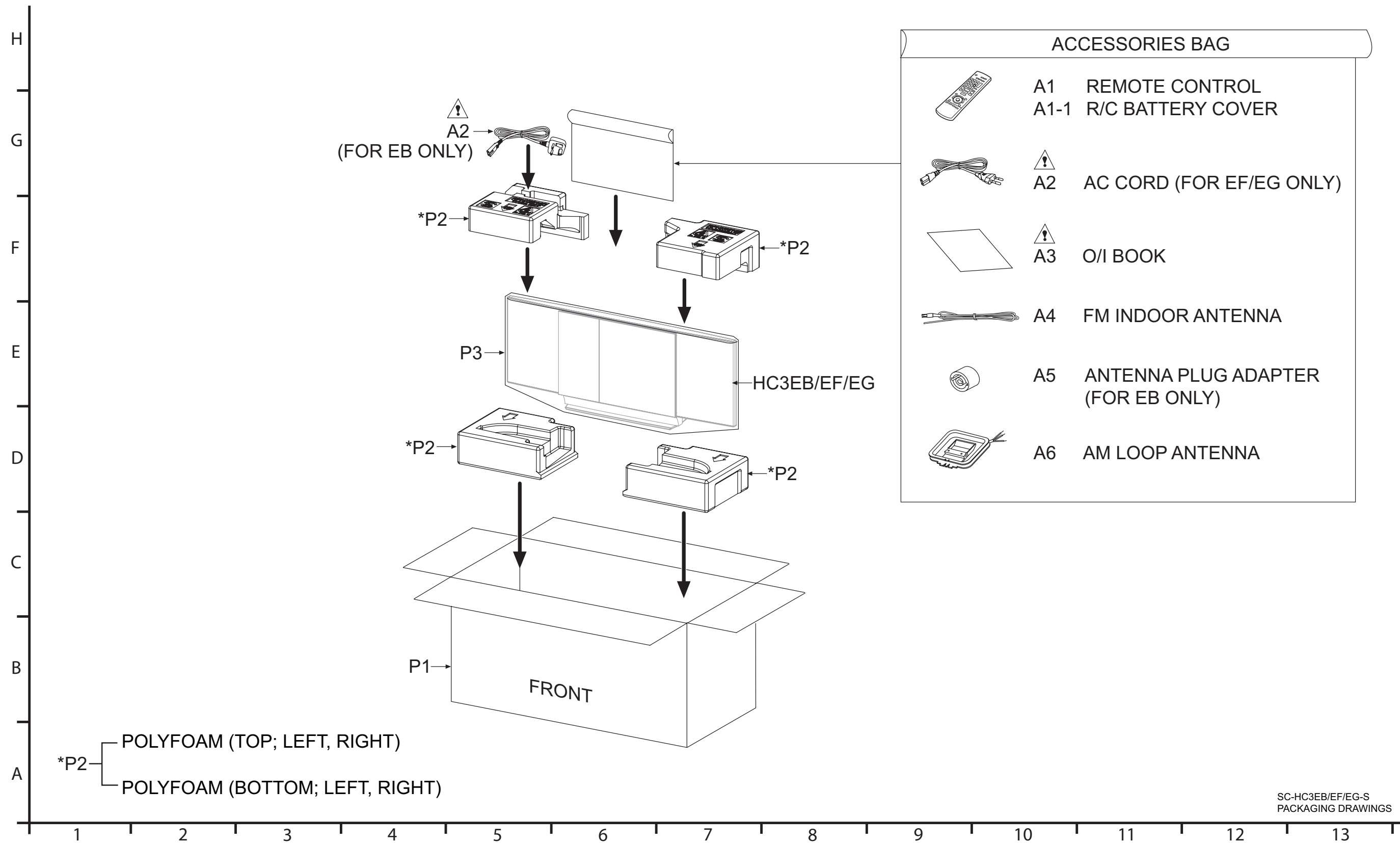
Pin No.	Mark	I/O	Function
1	A9	O	DRAM address signal O/P 9
2	A11	O	DRAM address signal O/P 11
3	A8	O	DRAM address signal O/P 8
4	A7	O	DRAM address signal O/P 7
5	A6	O	DRAM address signal O/P 6
6	A5	O	DRAM address signal O/P 5
7	A4	O	DRAM address signal O/P 4
8	NWE	O	Write Enable Signal (DRAM)
9	NCAS	O	DRAM CAS Control Signal
10	NRAS	O	DRAM ARS Control Signal
11	A3	O	DRAM address Signal O/P 3
12	A2	O	DRAM address Signal O/P 2
13	A1	O	DRAM address Signal O/P 1
14	A0	O	DRAM address Signal O/P 0
15	A10	O	DRAM address Signal O/P 10
16	BA0	-	Motor O/P (0);/Serial I/P
17	BA1	-	Motor O/P (1);/Serial I/P
18	PRAMVSS33	-	GND (DRAM)
19	PRAMVDD33	-	Power Supply Voltage (+1.6V)
20	PRAMVDD15	-	Power Supply Voltage (DRAM)
21	SPOUT	O	Spindle Drive O/P
22	PC	I/O	Spindle motor drive O/P signal serial data/Monitoring I/P
23	TRVP	O	Traverse Drive O/P (+ve)
24	TRP	O	Tracking Drive O/P (+ve)
25	FOP	O	Focusing Drive O/P (+ve)
26	DVSS1	-	GND
27	IODD2	-	Digital Power Supply Voltage 2 (I/O)
28	DVDD1	-	Digital Power Supply Voltage 1 (Built-In)
29	SRVMON0	-	No Connection
30	SRVMON1	-	No Connection
31	AVSS2	-	GND
32	OSCIN	I	Oscillating Input
33	CTRCRS	-	Tracking Cross Comparator
34	VREF	-	+Vref Supply Voltage
35	E	I	Tracking Input Signal 1
36	F	I	Tracking Input Signal 2
37	D	I	Focusing Input Signal 4
38	B	I	Focusing Input Signal 2
39	C	I	Focusing Input Signal 3
40	A	I	Focusing Input Signal 1
41	PD	I	APC Amp I/P
42	LD	O	Laser Drive Current O/P
43	CENV	-	Detection Capacitance Connection terminal
44	RFENV	O	RF Envelope O/P
45	RFOUT	O	RF Summing Amp O/P
46	RFIN	I	SGC I/P
47	AVDD2	-	Analog Power Supply voltage 2 (For DSL/PLL)
48	ARFDC	-	AGC Capacitive Connection Terminal
49	ARFOUT	O	AGC Output
50	ARFFB	I	ARF Feedback Signal I/P
51	ARFIN	I	Audio RF Signal I/P
52	DSLFB	I	Loop Filter Terminal (For DSL)
53	IREF	-	Reference I/P
54	PLLF	-	PLL Loop Filter Terminal (Phase Compare)
55	PLLF0	-	PLL Loop Filter Terminal (Speed Compare)
56	OUTL	O	Audio O/P (LCH)
57	AVSS1	-	GND

Pin No.	Mark	I/O	Function
58	AVDD1	-	Analog Power Supply Voltage 1
59	OUTR	O	Audio O/P (RCH)
60	DVSS3	-	GND3 (Digital Circuit)
61	NSRVMONON	I	Servo Motor O/P Enabling
62	EXT0 / SRDATA (ST_IN)	-	Expansion O/P Port 0
63	EXT1 / LRCK (ST_REQ)	-	Expansion O/P Port 1
64	EXT2 / BCLK (ST_CLK)	-	Expansion O/P Port 2
65	FLAG	-	Flag Signal O/P
66	TX	-	Digital Audio Interface O/P signal
67	MCLK	I	Micro-Computer Command Clock I/P
68	MDATA	I	Micro-Computer Data I/P
69	MLD	I	Micro-Computer Load I/P
70	STAT	O	Status Signal O/P
71	BLKCK	O	Subcode Blk Clock
72	NRST	O	LSI Reset Signal
73	DQSYTXT	-	Pack Signal O/P for CD-Text data
74	SMCK	-	Micro-Computer Clock O/P
75	PMCK	-	IOCNT Serial data O/P (Synchronous O/P)
76	DVDD2	-	Digital Power Supply Voltage 2 (+1.5V)
77	IODD1	-	Digital Power Supply Voltage 1 (For I/O)
78	DVSS2	-	GND2 (For Digital Circuit)
79	NTEST2	I	Test Mode Setting (ON:H)
80	X2	O	Crystal Oscillating Circuit O/P
81	X1	I	Crystal Oscillating Circuit I/P
82	NTEST	I	Test Mode Setting I/P (ON:H)
83	D2	O	Data Signal O/P 2
84	D1	O	Data Signal O/P 1
85	D0	O	Data Signal O/P 0
86	D3	O	Data Signal O/P 3
87	D4	O	Data Signal O/P 4
88	D5	O	Data Signal O/P 5
89	D6	O	Data Signal O/P 6
90	D7	O	Data Signal O/P 7
91	D15	O	Data Signal O/P 15
92	D14	O	Data Signal O/P 14
93	DRVDD	-	I/O Power Supply Voltage (DRAM)
94	D13	O	Data Signal O/P 13
95	D12	O	Data Signal O/P 12
96	D11	O	Data Signal O/P 11
97	D10	O	Data Signal O/P 10
98	D9	O	Data Signal O/P 9
99	D8	O	Data Signal O/P 8
100	SDRCK	O	Clock Signal O/P

19.3. IC7002 (BA5948FPE2) IC 4CH Drive

Pin No.	Mark	I/O	Function
1	IN2	I	Motor Driver Input
2	PC2	I	Turntable Motor Drive Signal (L:ON)
3	IN1	I	Motor Drive (1) Input
4	PC1	-	Traverse Motor Drive Signal (L): ON)
5-8	N.C.	-	No Connection
9	PGND1	-	Ground Connection (1) for Drive
10	PVCC1	-	Power Supply (1) for Drive
11	D1-	O	Motor Drive (1) reverse - action output
12	D1+	O	Motor Drive (1) forward - action output
13	D2-	O	Motor Drive (2) reverse - action output
14	D2+	O	Motor Drive (2) forward - action output
15	D3-	O	Motor Drive (3) reverse - action output
16	D3+	O	Motor Drive (3) forward - action output
17	D4-	O	Motor Drive (4) reverse - action output
18	D4+	O	Motor Drive (4) forward - action output
19	PVCC2	-	Power Supply (2) for Driver
20	PGND2	-	Ground Connection (2) for Driver
21-24	N.C.	-	No Connection
25	VCC	I	Power Supply terminal
26	VREF	I	Reference Voltage Input
27	IN4	I	Motor Driver (4) Input
28	IN3	I	Motor Driver (3) Input

20.1.2. Packaging



20.1.3. Mechanical Replacement Parts List

Important Safety Notice

Components identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: 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.

Note:

- When replacing any of these components, be sure to use only manufacturer's specified parts shown in the replacement part list.
- The parenthesized indications on the Remarks column specify the destination & product color (Refer to the cover page for the information).
- Parts without these indications shall be used for all areas.
- This product uses a laser diode. Refer to "Precaution of Laser Diode".
- All parts mentioned are supplied by PAVCSG unless indicated likewise.
- Parts mentioned [SPG] in the Remarks column are supplied by PAVC-CSG.
- Reference for O/I book languages are as follows:

Ar:	Arabic	Du:	Dutch	It:	Italian	Sp:	Spanish
Cf:	Canadian French	En:	English	Ko:	Korean	S:	Swedish
Cz:	Czech	Fr:	French	Po:	Polish	Co:	Traditional Chinese
Da:	Danish	Ge:	German	Ru:	Russian	Cn:	Simplified Chinese
Pe:	Persian	Ur:	Ukraine	Pr:	Portuguese		

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			CABINET AND CHASSIS		
	1	RMNX0307	FL HOLDER	1	
	2	RMFX0103	HIMELON	1	
	3	REXX0739	2P WIRE (MOTOR-MAIN)	1	
	4	REXX0740	3P WIRE (IR-MAIN)	1	
	5	REXX0743	2P WIRE (iPod SW-MAIN)	1	
	6	REXX0746-1	RED WIRE (AC INLET-SMPS)	1	
	7	REXX0747-1	BLACK WIRE (AC INLET-SMPS)	1	
	8	REXX0748	4P WIRE (POSW-MAIN)	1	
	9	REXX0752-1	BLUE WIRE (AC INLET-SMPS)	1	
	12	XTV3+6FFJ	SCREW	1	
	13	XTV3+8FFJ	SCREW	1	
	14	L6FAGA9G0001	FAN UNIT (iPod)	1	
	15	L6FAHAKH0001	FAN UNIT	1	
	16	RDPV0001	LID ROLLER	4	
	17	REEX0983-1	25P FFC (MAIN-TRV)	1	
	18	REEX0984-1	10P FFC (TUNER-MAIN)	1	
	19	REEX0985-1	14P FFC (iPod-MAIN)	1	
	20	REEX1001	9P FFC (FL-MAIN)	1	
	21	REEX1002	8P FFC (AUX-MAIN)	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	22	REXX0736	12P WIRE (DAMP-MAIN)	1	
	23	REXX0737	10P WIRE (SMPS-MAIN)	1	
	24	REXX0744	4P WIRE (DAMP-SMPS)	1	
	25	REXX0745-2	4P WIRE (SPEAKER-DAMP)	1	
	26	RGKX0526-S1	BOTTOM ORNAMENT	1	
	27	RGKX0527-S2	TOP ORNAMENT	1	
	28	RGKX0528B-S1	TOUCH PANEL	1	
	29	RGKX0529-K	PUSH LEVER	1	
	30	RGNX0850	NAME PLATE LABEL	1	
	31	RGPX0379-K2	GUIDE REEL A	1	
	32	RGPX0380-K	GUIDE REEL B	1	
	33	RGPX0383-K1	DOCKING TUB	1	
	34	RHD14136	SCREW	7	
	35	RHD26046	SCREW	30	
	36	RHD30070	EARTH TERMINAL SCREW	1	
	37	RHD30090-1	SCREW	1	
	38	RKAX0028-K	LEG CUSHION	4	
	39	RHGX0003	MINI SIDE LOCK	1	
	40	RMFX0091	ACOUSTIC ABSORBER	4	
	41	RMKX0157-K1	DOCKING COVER	1	
	42	RMKX0158-K1	DOCKING HOLDER	1	
	43	RMNX0308A-K1	SMPS BARRIER A	1	
	44	RMNX0309-K	SMPS BARRIER B	1	EF
	44	RMNX0309A-K	SMPS BARRIER B	1	EB/EG
	45	RMNX0310	PCB HOLDER	1	
	46	RMNX0317-2	FAN HOLDER	1	
	47	RMNX0320	SMPS INSULATOR A	1	
	48	RMNX0321	SMPS INSULATOR B	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	49	RMNX0322-1	DAMP INSULATOR	1	
	50	RSCX0210-1	SMPS SHIELD B	1	
	51	RDG0546	BELT PULLEY	1	
	52	RDGX0050	MIDDLE GEAR	1	
	53	RDGX0051	DRIVE GEAR	1	
	54	RDVX0001	BELT	1	
	55	RMKX0159-1	GEAR FIXTURE	1	
	56	RMKX0160-1	GEAR BASE	1	
	57	RXQ1690	MOTOR ASS'Y (MT602)	1	
	58	XSN2+4FJ	SCREW	2	
	59	XTW3+16TFJK	SCREW	1	
	60	RXQX0109-1	SMPS SHIELD A ASS'Y	1	
	61	RYBX0197-H	NET FRAME ASS'Y (L)	1	
	62	RYBX0198-H	NET FRAME ASS'Y R	1	
	63	RYPX0405B-S1	CD DOOR UNIT	1	
	64	RGPX0385F-K1	REAR CABINET	1	EF
	64	RGPX0385J-K1	REAR CABINET	1	EB/EG
	65	RMQX0361	EVA PACKING (FOR PASSIVE REAR)	2	
	66	XTB3+8JFJK	SCREW	26	
	67	RGPX0381-K2	SPEAKER FRONT CABINET (L)	1	
	68	RMQX0356	EVA PACKING (BARRIER-L)	1	
	69	RMQX0357	EVA PACKING (FRAME-L)	2	
	70	RMQX0358	EVA PACKING (FRAME A-L)	1	
	71	RGPX0382-K2	SPEAKER FRONT CABINET (R)	1	
	72	RMQX0356	EVA PACKING (BARRIER-R)	1	
	73	RMQX0357	EVA PACKING (FRAME-R)	2	
	74	RMQX0358	EVA PACKING (FRAME A-R)	1	
	75	RYPX0411-K	FRONT CABINET UNIT	1	
	76	XTB2+6GFJK	SCREW	18	
	77	XTB3+12JFJK	SCREW	15	
	78	XTB3+16JFJ	SCREW	1	
	87	XTB3+8JFJ	SCREW	3	
	88	REXX0738	5P WIRE (MAIN-PANEL 1)	1	
	89	REXX0741	3P WIRE (PANEL 2-PANEL 1)	1	
	90	J3CCBC000020	TUNER PACK	1	
	91	REXX0774	1P WIRE (MAIN-SMPS)	1	
	92	RMFX0098	HIMELON	2	
	94	RMQX0376	CUSHION PC SHEET	2	
	95	RMFX0099	HIMELON	1	
	96	RMNX0323-1	SMPS INSULATOR C	1	
	97	RMQX0372-1	iPod CUSHION	1	
	98	RMFX0097	HIMELON	3	
	99	RMQX0373	CUSHION PANEL PCB	2	
	100	RMF0416	HIMELON	11	
⚠	101	REXX0771	WHITE WIRE (JW708)	1	
⚠	102	REXX0772	BROWN WIRE (JW707)	1	
	104	RSCX0218	SILICON PLATE	1	
	105	RMQX0362	EVA PACKING (PASSIVE FRONT)	2	
	106	RMQX0379	SPACER	2	
	107	RHD30092-1	SCREW	1	
			TRAVERSE DECK		
⚠	300	RAE0165T-V	TRAVERSE ASS'Y	1	(RTL)
	301	XTN2+6GFJ	SCREW	3	
	302	RME0109-1	FLOATING SPRING	4	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	303	RMG0730-G	FLOATING RUBBER	4	
	304	RMR1395-X	MIDDLE CHASSIS	1	
	305	RMR1396-K	TRAVERSE COVER	1	
	306	RMS0757-1	FIXED PIN	4	
			SPEAKERS		
	SP1	EAS65P144A	FRONT SPEAKER	1	
	SP2	EAS65P144A	FRONT SPEAKER	1	
	SP3	EAS8DY01B	PASSIVE RADIATOR	1	
	SP4	EAS8DY01B	PASSIVE RADIATOR	1	
	SP5	EAS8DY01B	PASSIVE RADIATOR	1	
	SP6	EAS8DY01B	PASSIVE RADIATOR	1	
			PACKING MATERI-ALS		
	P1	RPGX2164	PACKING CASE	1	EG
	P1	RPGX2165	PACKING CASE	1	EB
	P1	RPGX2216	PACKING CASE	1	EF
	P2	RPNX0614	POLYFOAM	1	
	P3	RPFX0262	MIRAMAT BAG	1	
			ACCESSORIES		
	A1	N2QAYB000394	REMOTE CONTROL	1	
	A1-1	RKK-PT470EBK	R/C BATTERY COVER	1	
⚠	A2	K2CQ2CA00007	AC CORD	1	EF/EG
⚠	A2	K2CZ3YY00005	AC CORD	1	EB
⚠	A3	RQTX0252-2D	O/I BOOK (Ge/It/ Fr/Sp)	1	EF/EG
⚠	A3	RQTX0253-2H	O/I BOOK (Du/Da/ Sw)	1	EG
⚠	A3	RQTX0261-2B	O/I BOOK (En)	1	EB
	A4	RSAX0002	FM INDOOR ANTENNA	1	
	A5	K1YZ02000013	ANTENNA PLUG ADAPTER	1	EB
	A6	N1DAAA00002	AM LOOP ANTENNA	1	

20.2. Electrical Replacement Parts List

Important Safety Notice

Components identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: 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.

Note:

- When replacing any of these components, be sure to use only manufacturer's specified parts shown in the replacement part list.
- The parenthesized indications on the Remarks column specify the destination & product color (Refer to the cover page for the information).
- Parts without these indications shall be used for all areas.
- This product uses a laser diode. Refer to "Precaution of Laser Diode".
- Capacitor value are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF), F=Farads.
- Resistance values are in ohms, unless specified otherwise, 1K=1000 (OHM).
- All parts mentioned are supplied by PAVCSG unless indicated likewise.
- Parts mentioned [SPG] in the Remarks column are supplied by PAVC-CSG.

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			PRINTED CIRCUIT BOARDS		
	PCB1	REPX0631A	iPod P.C.B.	1	(RTL)
	PCB2	REPX0723A	CD SERVO P.C.B.	1	(RTL)
	PCB3	REPX0753B	D-AMP P.C.B.	1	(RTL)
	PCB4	REPX0754B	MAIN P.C.B.	1	(RTL)
	PCB5	REPX0755B	SMPS P.C.B.	1	(RTL)
	PCB6	REPX0755B	TUNER P.C.B.	1	(RTL)
	PCB7	REPX0755B	FL P.C.B.	1	(RTL)
	PCB8	REPX0754B	PANEL 1 P.C.B.	1	(RTL)
	PCB9	REPX0754B	PANEL 2 P.C.B.	1	(RTL)
	PCB10	REPX0754B	AUX/HP P.C.B.	1	(RTL)
	PCB11	REPX0755B	IR P.C.B.	1	(RTL)
	PCB12	REPX0755B	MOTOR P.C.B.	1	(RTL)
	PCB13	REPX0755B	POSITION SW P.C.B.	1	(RTL)
	PCB14	REPX0755B	iPod SW P.C.B.	1	(RTL)
	PCB15	REPX0755B	AC IN P.C.B.	1	(RTL)
			INTEGRATED CIRCUITS		
	IC1	C1AB00003012	IC	1	
	IC101	C1AB00003013	IC	1	
	IC102	C0ABBB000230	IC	1	
	IC103	C0AABB000085	IC	1	
	IC350	C1AB00002751	IC	1	
	IC503	C0CBCBC00090	IC	1	
	IC504	C0DBAYH00005	IC	1	
	IC505	C0DBAYH00005	IC	1	
	IC551	B0ADCJ000020	IC	1	
	IC650	C0GAEB000007	IC	1	
	IC701	C0DAEMZ00001	IC	1	
	IC702	C0DAAMH00015	IC	1	
	IC705	C0EBJ0000336	IC	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	IC751	MIP2F20MSSCF	IC	1	
	IC752	C0DAEMZ00001	IC	1	
	IC801	RFKWMAHC3-S	IC	1	
	IC802	C0CBCBD00008	IC	1	
	IC803	C0EBE0000482	IC	1	
	IC6801	C0HBB0000057	IC	1	
	IC7001	MN6627954AMA	IC	1	
	IC7002	BA5948FPE2	IC	1	
	IC7003	C3ABMB000050	IC	1	
			TRANSISTORS		
	Q101	B1ABCF000176	TRANSISTOR	1	
	Q102	B1ABCF000176	TRANSISTOR	1	
	Q103	B1ABCF000176	TRANSISTOR	1	
	Q104	B1ABCF000176	TRANSISTOR	1	
	Q105	B1ABCF000176	TRANSISTOR	1	
	Q251	B1ABGC000005	TRANSISTOR	1	
	Q252	B1ABGC000005	TRANSISTOR	1	
	Q253	B1ABGC000005	TRANSISTOR	1	
	Q302	B1ABDF000026	TRANSISTOR	1	
	Q382	B1ADCE000012	TRANSISTOR	1	
	Q451	B1ABGC000005	TRANSISTOR	1	
	Q452	B1ABGC000005	TRANSISTOR	1	
	Q453	B1ABGC000005	TRANSISTOR	1	
	Q509	B1BAAJ000003	TRANSISTOR	1	
	Q511	B1ABDF000026	TRANSISTOR	1	
	Q512	B1ACND000003	TRANSISTOR	1	
	Q551	B1ACKD000006	TRANSISTOR	1	
	Q552	B1ABCF000176	TRANSISTOR	1	
	Q553	B1ABCF000176	TRANSISTOR	1	
	Q581	B1BARK000001	TRANSISTOR	1	
	Q582	B1ADCE000012	TRANSISTOR	1	
	Q583	B1ADCE000012	TRANSISTOR	1	
	Q701	B1ABEC000010	TRANSISTOR	1	
	Q703	B1ABCF000176	TRANSISTOR	1	
	Q7601	B1ADCF000001	TRANSISTOR	1	
	QR1	B1GBCFJJ0051	TRANSISTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	QR2	B1GBCFJJ0051	TRANSISTOR	1	
	QR3	B1GBCFJJ0051	TRANSISTOR	1	
	QR4	B1GBCFJJ0051	TRANSISTOR	1	
	QR101	B1GDCFGG0026	TRANSISTOR	1	
	QR121	UNR221300L	TRANSISTOR	1	
	QR384	B1GBCFJJ0051	TRANSISTOR	1	
	QR514	UNR521300L	TRANSISTOR	1	
	QR515	UNR521300L	TRANSISTOR	1	
	QR554	B1GBCFJJ0051	TRANSISTOR	1	
	QR804	UNR511100L	TRANSISTOR	1	
	QR805	UNR521100L	TRANSISTOR	1	
	QR806	UNR521100L	TRANSISTOR	1	
			DIODES		
	D3	B0JCME000035	DIODE	1	
	D4	B0JCME000035	DIODE	1	
	D5	B0JCME000035	DIODE	1	
	D6	B0JCME000035	DIODE	1	
	D9	MAZ8033G0L	DIODE	1	
	D10	MA2SD320GL	DIODE	1	
	D11	MA2SD320GL	DIODE	1	
	D12	MA2J1110GL	DIODE	1	
	D13	MA2J1110GL	DIODE	1	
	D101	MA2J1110GL	DIODE	1	
	D102	MA2J1110GL	DIODE	1	
	D103	MA2J72800L	DIODE	1	
	D105	MA2J1110GL	DIODE	1	
	D513	MA2J1110GL	DIODE	1	
	D514	MA2J1110GL	DIODE	1	
	D515	B0BC7R5A0266	DIODE	1	
	D516	B0ACCK000005	DIODE	1	
	D517	MA2J1110GL	DIODE	1	
	D518	B0BC6R100010	DIODE	1	
	D519	B0JCPD000043	DIODE	1	
	D520	B0JCPD000043	DIODE	1	
	D521	B0HCMM000019	DIODE	1	
	D522	B0HCMM000019	DIODE	1	
	D523	B0HCMM000019	DIODE	1	
	D524	B0HCMM000019	DIODE	1	
	D551	MA2J1110GL	DIODE	1	
	D552	B0BC5R600003	DIODE	1	
	D555	MA2J1110GL	DIODE	1	
	D581	MAZ8180GML	DIODE	1	
	D582	MAZ8180GML	DIODE	1	
	D583	MAZ8270GLL	DIODE	1	
	D584	MAZ8033GLL	DIODE	1	
	D585	B0JCMD000010	DIODE	1	
	D586	B0JAME000029	DIODE	1	
	D701	B0EBNR000015	DIODE	1	
	D702	B0HBSM000052	DIODE	1	
	D703	MAZ80300LL	DIODE	1	
	D704	B0ZAZ0000052	DIODE	1	
	D705	B0HAJM000005	DIODE	1	
	D706	B0HAJM000005	DIODE	1	
	D708	B0HAJM000005	DIODE	1	
	D711	B0BC6R100010	DIODE	1	
	D714	MA2J11100L	DIODE	1	
	D718	MAZ83000ML	DIODE	1	
	D751	B0EAMM000057	DIODE	1	
	D752	B0EDKT000009	DIODE	1	
	D753	B0JAMF000011	DIODE	1	
	D754	B0HAMP000094	DIODE	1	
	D755	B0JAMF000011	DIODE	1	
	D756	B0JAMF000011	DIODE	1	
	D851	MA2J1110GL	DIODE	1	
	D852	MA2J1110GL	DIODE	1	
	D853	MA2J1110GL	DIODE	1	
	D854	B0HCMM000019	DIODE	1	
	D855	B0HCMM000019	DIODE	1	
	D856	B0HCMM000019	DIODE	1	
	D901	B3AAB0000144	DIODE	1	
	D7650	MAZ80560ML	DIODE	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			SWITCHES		
	S641	K0L1BA0000078	SW LEFT	1	
	S642	K0L1BA0000078	SW CENTER	1	
	S643	K0L1BA0000078	SW RIGHT	1	
	S644	K0L1BA0000078	SW iPod OPEN	1	
	S901	EVQ11G04M	SW POWER	1	
	S902	EVQ11G04M	SW iPod OPEN/ CLOSE	1	
	S903	EVQ11G04M	SW iPod PLAY/ PAUSE	1	
	S904	EVQ11G04M	SW FM/AM	1	
	S905	EVQ11G04M	SW AUX	1	
	S906	EVQ11G04M	SW CD PLAY/PAUSE	1	
	S907	EVQ11G04M	SW CD OPEN/CLOSE	1	
	S911	EVQ11G04M	SW REV SKIP	1	
	S912	EVQ11G04M	SW FWD SKIP	1	
	S913	EVQ11G04M	SW STOP	1	
	S914	EVQ11G04M	SW VOL-	1	
	S915	EVQ11G04M	SW VOL+	1	
	S916	EVQ11G04M	SW SD REC D.BASS	1	
	S7201	RSH1A048-A	REST SWITCH	1	
	PSW1	D4FB1R100009	SW	1	
			CONNECTORS		
	CN1	K1KA12BA0062	12P CONNECTOR	1	
	CN2	K1KA04AA0193	4P CONNECTOR	1	
	CN4	K1KA04BA0061	4P CONNECTOR	1	
	CN100	K1KA10BA0062	10P CONNECTOR	1	
	CN110	K1KA12AA0194	12P CONNECTOR	1	
	CN350	K1MN10AA0003	10P CONNECTOR	1	
	CN381	K1MN14BA0004	14P CONNECTOR	1	
	CN607	K1MN10BA0004	10P CONNECTOR	1	
	CN650	K1KA02AA0193	2P CONNECTOR	1	
	CN651	K1KA04AA0193	4P CONNECTOR	1	
	CN652	K1KA03BA0061	3P CONNECTOR	1	
	CN653	K1KA03AA0193	3P CONNECTOR	1	
	CN801	K1MN06C00005	6P CONNECTOR	1	
	CN803	K1KA05BA0061	5P CONNECTOR	1	
	CN804	K1KA02BA0061	2P CONNECTOR	1	
	CN900	K1MN09AA0003	9P CONNECTOR	1	
	CN902	K1MN08AA0003	8P CONNECTOR	1	
	CN905	K1KA10AA0194	10P CONNECTOR	1	
	CN906	K1KA04AA0193	4P CONNECTOR	1	
	CN951	K1MN08AA0003	8P CONNECTOR	1	
	CN1001	MFI514S0117	30P CONNECTOR (iPod)	1	
	CN1002	K1MN14BA0141	14P CONNECTOR	1	
	CN2815	K1KA02BA0125	2P CONNECTOR	1	
	CN6801	K1MN09B00038	9P CONNECTOR	1	
	CN7001	K1MN16B00154	16P CONNECTOR	1	
	CN7002	K1MN25B00019	25P CONNECTOR	1	
			COILS AND INDUC- TORS		
	L1	G0C150MA0056	INDUCTOR	1	
	L2	G0C150MA0056	INDUCTOR	1	
	L3	G0C150MA0056	INDUCTOR	1	
	L4	G0C150MA0056	INDUCTOR	1	
	L302	G0A200D00002	CHOKE COIL	1	
	L351	J0JBC0000015	INDUCTOR	1	
	L352	J0JBC0000015	INDUCTOR	1	
	L381	J0JHC0000034	INDUCTOR	1	
	L382	J0JHC0000034	INDUCTOR	1	
	L383	J0JBC0000019	INDUCTOR	1	
	L384	J0JBC0000019	INDUCTOR	1	
	L385	J0JBC0000019	INDUCTOR	1	
	L501	J0JHC0000034	INDUCTOR	1	
	L502	G0A220GA0026	CHOKE COIL	1	
	L503	G0A330ZA0045	CHOKE COIL	1	
	L504	G0A100HA0023	CHOKE COIL	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	L505	G0A220GA0026	CHOKE COIL	1	
	L506	G0A330ZA0045	CHOKE COIL	1	
	L507	G0A100HA0023	CHOKE COIL	1	
	L581	G0C390JA0055	INDUCTOR	1	
△	L702	G0B333E00002	LINE FILTER	1	
△	L751	ELF15N035AN	LINE FILTER	1	
	L802	J0JBC0000019	INDUCTOR	1	
	L803	J0JBC0000019	INDUCTOR	1	
	L804	J0JBC0000019	INDUCTOR	1	
	L951	J0JBC0000014	INDUCTOR	1	
	L952	J0JBC0000014	INDUCTOR	1	
	L953	J0JBC0000014	INDUCTOR	1	
	L954	J0JBC0000014	INDUCTOR	1	
	L955	J0JBC0000014	INDUCTOR	1	
	L956	J0JBC0000014	INDUCTOR	1	
	L957	J0JBC0000014	INDUCTOR	1	
	L958	J0JBC0000014	INDUCTOR	1	
	L1001	J0JHC0000107	INDUCTOR	1	
	L1002	J0JHC0000107	INDUCTOR	1	
	L1003	J0JHC0000107	INDUCTOR	1	
	L1004	J0JHC0000107	INDUCTOR	1	
	L1005	J0JHC0000107	INDUCTOR	1	
	L1006	J0JHC0000107	INDUCTOR	1	
	L1007	J0JHC0000107	INDUCTOR	1	
	L1008	J0JHC0000107	INDUCTOR	1	
	L1009	J0JHC0000107	INDUCTOR	1	
	L1010	J0JHC0000107	INDUCTOR	1	
	L1011	J0JHC0000107	INDUCTOR	1	
	L6802	G0C3R3JA0055	INDUCTOR	1	
	L6806	G0C101JA0055	INDUCTOR	1	
	LB581	J0JBC0000041	INDUCTOR	1	
	LB582	J0JBC0000041	INDUCTOR	1	
			TRANSFORMERS		
△	T581	G4D1A0000117	SWITCHING TRANS- FORMER	1	
△	T701	G4DYA0000155	MAIN TRANSFORMER	1	
△	T751	ETS19AB221AG	BACKUP TRANS- FORMER	1	
			COMPONENT COMBI- NATION		
	IR921	B3RAD0000167	REMOTE CONTROL SENSOR	1	
△	Z752	ERZV10V511CS	ZNR	1	
	ZJ701	K4C201000027	TERMINAL	1	
			PHOTO COUPLERS		
△	PC701	B3PBA0000454	PHOTO COUPLER	1	
△	PC751	B3PBA0000454	PHOTO COUPLER	1	
			OSCILLATORS		
	X351	H0H433400002	CRYSTAL OSCILLA- TOR	1	
	X801	H0A327200097	CRYSTAL OSCILLA- TOR	1	
	X802	H2B800400005	CRYSTAL OSCILLA- TOR	1	
	X7201	H0H169500013	CRYSTAL OSCILLA- TOR	1	
			FL DISPLAY		
	FL6801	A2BB00000172	LCD DISPLAY	1	
			RELAY		
△	RY701	K6B1AEA00017	RELAY	1	
			FUSE		

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
△	F751	K5D162BK0005	FUSE	1	
			FUSE HOLDERS		
	ZA751	EYF52BCY	FUSE HOLDER	1	
	ZA752	EYF52BCY	FUSE HOLDER	1	
			FUSE PROTECTOR	1	
△	FP581	K5H7512A0010	FUSE PROTECTOR	1	
			THERMISTOR	1	
△	TH701	D4CAC8R00002	THERMISTOR	1	
			JACKS		
	JK951	K2HC1YYB0033	JK MUSIC PORT	1	
	JK952	K2HC1YYB0033	JK HEADPHONE	1	
△	P751	K2AA2B000017	AC INLET	1	
			CHIP JUMPERS	1	
	K10	D0GBR00JA008	0 1/16W	1	
	K15	D0GBR00JA008	0 1/16W	1	
	LB7262	D0GBR00JA008	0 1/16W	1	
	LB7263	D0GBR00JA008	0 1/16W	1	
	LB7264	D0GBR00JA008	0 1/16W	1	
			RESISTORS		
	R1	D0GB223JA008	22K 1/16W	1	
	R2	D0GB223JA008	22K 1/16W	1	
	R3	D0GB223JA008	22K 1/16W	1	
	R7	D0GB392JA008	3.9K 1/16W	1	
	R9	D0GB183JA008	18K 1/16W	1	
	R11	D0GB103JA008	10K 1/16W	1	
	R12	D0GB104JA008	100K 1/16W	1	
	R13	D0GB104JA008	100K 1/16W	1	
	R16	D0GD682JA017	6.8K 1/10W	1	
	R17	D0GD682JA017	6.8K 1/10W	1	
	R18	D0GD122JA017	1.2K 1/10W	1	
	R19	D0GD122JA017	1.2K 1/10W	1	
	R20	D0GD183JA017	18K 1/10W	1	
	R21	D0GD183JA017	18K 1/10W	1	
	R22	D0GB102JA008	1K 1/16W	1	
	R23	D0GB225JA008	2.2M 1/16W	1	
	R24	D0GB102JA008	1K 1/16W	1	
	R101	D0GB470JA008	47 1/16W	1	
	R102	D0GB823JA008	82K 1/16W	1	
	R103	D0GB153JA008	15K 1/16W	1	
	R104	D0GB122JA008	1.2K 1/16W	1	
	R105	D0GDR00JA017	0 1/10W	1	
	R106	D0GDR00JA017	0 1/10W	1	
	R111	ERJ6GEYJ272V	2.7K 1/8W	1	
	R112	ERJ6GEYJ272V	2.7K 1/8W	1	
	R113	D0GD154JA017	150K 1/10W	1	
	R114	D0GD154JA017	150K 1/10W	1	
	R115	D0GD222JA017	2.2K 1/10W	1	
	R116	D0GD222JA017	2.2K 1/10W	1	
	R117	D0GD102JA017	1K 1/10W	1	
	R118	D0GD122JA017	1.2K 1/10W	1	
	R119	ERJ6GEYJ104V	100K 1/8W	1	
	R120	ERJ6GEYJ104V	100K 1/8W	1	
	R121	D0GD392JA017	3.9K 1/10W	1	
	R122	D0GD392JA017	3.9K 1/10W	1	
	R123	D0GD392JA017	3.9K 1/10W	1	
	R124	D0GD392JA017	3.9K 1/10W	1	
	R125	D0GD470JA017	47 1/10W	1	
	R126	D0GD470JA017	47 1/10W	1	
	R127	D0GD223JA017	22K 1/10W	1	
	R128	D0GD102JA017	1K 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R130	ERJ6GEYJ475V	4.7M 1/8W	1	
	R131	D0GD103JA017	10K 1/10W	1	
	R132	D0GD103JA017	10K 1/10W	1	
	R133	D0GB182JA008	1.8K 1/16W	1	
	R134	D0GD103JA017	10K 1/10W	1	
	R135	D0GD103JA017	10K 1/10W	1	
	R136	D0GB182JA008	1.8K 1/16W	1	
	R137	D0GB152JA008	1.5K 1/16W	1	
	R138	D0GB103JA008	10K 1/16W	1	
	R139	D0GB103JA008	10K 1/16W	1	
	R140	D0GB102JA008	1K 1/16W	1	
	R206	D0GB682JA008	6.8K 1/16W	1	
	R220	D0GB561JA008	560 1/16W	1	
	R221	D0GB472JA008	4.7K 1/16W	1	
	R222	D0GB123JA008	12K 1/16W	1	
	R230	D0GB472JA008	4.7K 1/16W	1	
	R251	D0GD122JA017	1.2K 1/10W	1	
	R252	ERJ6GEYJ104V	100K 1/8W	1	
	R253	D0GDR00JA017	0 1/10W	1	
	R254	D0GD332JA017	3.3K 1/10W	1	
	R255	D0GD122JA017	1.2K 1/10W	1	
	R256	ERJ6GEYJ104V	100K 1/8W	1	
	R257	ERJ6GEYJ123V	12K 1/8W	1	
	R258	ERJ6GEYJ273V	27K 1/8W	1	
	R260	ERJ6GEYJ104V	100K 1/8W	1	
	R261	D0GD390JA017	39 1/10W	1	
	R262	D0GD390JA017	39 1/10W	1	
	R263	ERJ6GEYJ104V	100K 1/8W	1	
	R264	D0GDR00JA017	0 1/10W	1	
	R267	D0GDR00JA017	0 1/10W	1	
	R350	D0GB4R7JA008	4.7 1/16W	1	
	R352	D0GB222JA008	2.2K 1/16W	1	
	R353	D0GB221JA008	220 1/16W	1	
	R354	D0GB102JA008	1K 1/16W	1	
	R355	D0GB221JA008	220 1/16W	1	
	R356	D0GB221JA008	220 1/16W	1	
	R392	D0GB104JA008	100K 1/16W	1	
	R393	D0GB472JA008	4.7K 1/16W	1	
	R394	D0GB473JA008	47K 1/16W	1	
	R406	D0GB682JA008	6.8K 1/16W	1	
	R420	D0GB561JA008	560 1/16W	1	
	R421	D0GB472JA008	4.7K 1/16W	1	
	R422	D0GB123JA008	12K 1/16W	1	
	R451	D0GD122JA017	1.2K 1/10W	1	
	R452	ERJ6GEYJ104V	100K 1/8W	1	
	R453	D0GDR00JA017	0 1/10W	1	
	R454	D0GD332JA017	3.3K 1/10W	1	
	R455	D0GD122JA017	1.2K 1/10W	1	
	R456	ERJ6GEYJ104V	100K 1/8W	1	
	R457	ERJ6GEYJ123V	12K 1/8W	1	
	R458	ERJ6GEYJ273V	27K 1/8W	1	
	R460	ERJ6GEYJ104V	100K 1/8W	1	
	R461	D0GD390JA017	39 1/10W	1	
	R462	D0GD390JA017	39 1/10W	1	
	R463	ERJ6GEYJ104V	100K 1/8W	1	
	R464	D0GDR00JA017	0 1/10W	1	
	R467	D0GDR00JA017	0 1/10W	1	
	R516	D0GB681JA008	680 1/16W	1	
	R518	D0GB122JA008	1.2K 1/16W	1	
	R519	D0GB101JA008	100 1/16W	1	
	R520	ERJ6GEYJ334V	330K 1/8W	1	
	R521	ERJ3RBD562V	5.6K 1/16W	1	
	R522	ERJ3RBD821V	820 1/16W	1	
	R523	D0HB102ZA002	1K 1/16W	1	
	R525	ERJ3RBD272V	2.7K 1/16W	1	
	R526	ERJ3RBD471V	470 1/16W	1	
	R527	D0HB102ZA002	1K 1/16W	1	
	R529	D0GB101JA008	100 1/16W	1	
	R530	D0GB221JA008	220 1/16W	1	
	R533	ERJ6GEYJ473V	47K 1/8W	1	
	R551	D0GBR00JA008	0 1/16W	1	
	R552	D0GB103JA008	10K 1/16W	1	
	R553	D0GB472JA008	4.7K 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R554	D0GB103JA008	10K 1/16W	1	
	R555	D0GB824JA008	820K 1/16W	1	
	R556	D0GB104JA008	100K 1/16W	1	
	R557	D0GB562JA008	5.6K 1/16W	1	
	R558	D0GB103JA008	10K 1/16W	1	
	R559	D0AF270JA039	27 1/2W	1	
	R560	D0GB563JA008	56K 1/16W	1	
	R561	D0GB101JA008	100 1/16W	1	
	R562	D0GB104JA008	100K 1/16W	1	
	R563	D0GB824JA008	820K 1/16W	1	
	R564	D0GB563JA008	56K 1/16W	1	
	R581	D0GB472JA008	4.7K 1/16W	1	
	R582	D0GB470JA008	47 1/16W	1	
	R583	D0GB473JA008	47K 1/16W	1	
	R584	D0GB104JA008	100K 1/16W	1	
	R585	D0GB472JA008	4.7K 1/16W	1	
	R586	D0GB473JA008	47K 1/16W	1	
	R587	D0GB472JA008	4.7K 1/16W	1	
	R589	D0GB473JA008	47K 1/16W	1	
	R590	ERJ6GEYJ2R7V	2.7 1/8W	1	
	R591	ERJ6GEYJ2R7V	2.7 1/8W	1	
	R592	D0GBR00JA008	0 1/16W	1	
	R593	D0GBR00JA008	0 1/16W	1	
	R701	ERJ8GEYJ121V	120 1/4W	1	
	R702	ERJ8GEYJ683V	68K 1/4W	1	
	R703	D0GD102JA017	1K 1/10W	1	
	R704	D0GD102JA017	1K 1/10W	1	
	R705	ERJ8GEYJ153V	15K 1/4W	1	
	R706	D0GD101JA017	100 1/10W	1	
	R707	ERJ8GEYJ183V	18K 1/4W	1	
	R708	ERG2SJ680E	68 2W	1	
	R709	ERJ6GEYJ182V	1.8K 1/8W	1	
	R710	D0GD392JA017	3.9K 1/10W	1	
	R711	ERJ6GEYJ123V	12K 1/8W	1	
	R712	D0GDR00JA017	0 1/10W	1	
	R714	D0GD102JA017	1K 1/10W	1	
	R715	D0GD102JA017	1K 1/10W	1	
	R716	D0GD103JA017	10K 1/10W	1	
	R717	D0GD122JA017	1.2K 1/10W	1	
	R718	ERX2SJR33P	33 2W	1	
	R720	ERJ6GEYJ272V	2.7K 1/8W	1	
	R721	D0GD472JA017	4.7K 1/10W	1	
	R722	D0GD152JA017	1.5K 1/10W	1	
	R723	ERJ6GEYJ473V	47K 1/8W	1	
	R724	D0GD102JA017	1K 1/10W	1	
	R725	D0GB152JA008	1.5K 1/16W	1	
	R726	ERJ6GEYJ271V	270 1/8W	1	
	R727	ERDS1TJ475B	4.7M 1/2W	1	
	R737	D0GD152JA017	1.5K 1/10W	1	
	R738	ERG2SJ680E	68 2W	1	
	R739	D0GD101JA017	100 1/10W	1	
	R740	ERJ6GEYJ182V	1.8K 1/8W	1	
	R742	ERJ8GEYJ823V	82K 1/4W	1	
	R743	ERJ8GEYJ121V	120 1/4W	1	
	R751	D0GD220JA017	22 1/10W	1	
	R752	ERJ1TYJ104U	100K 1W	1	
	R753	D0GD471JA017	470 1/10W	1	
	R754	D0GD103JA017	10K 1/10W	1	
	R755	D0GD222JA017	2.2K 1/10W	1	
	R756	ERJ6GEYJ474V	470K 1/8W	1	
	R757	D0GD153JA017	15K 1/10W	1	
	R758	D0GD103JA017	10K 1/10W	1	
	R759	D0GDR00JA017	0 1/10W	1	
	R760	D0GD102JA017	1K 1/10W	1	
	R801	D0GBR00JA008	0 1/16W	1	
	R802	D0GB224JA008	220K 1/16W	1	
	R803	D0GB102JA008	1K 1/16W	1	
	R805	D0GB472JA008	4.7K 1/16W	1	
	R807	D0GB101JA008	100 1/16W	1	
	R808	D0GB102JA008	1K 1/16W	1	
	R809	D0GB101JA008	100 1/16W	1	
	R810	D0GBR00JA008	0 1/16W	1	
	R811	D0GBR00JA008	0 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R812	D0GB102JA008	1K 1/16W	1	
	R813	D0GB472JA008	4.7K 1/16W	1	
	R814	D0GB153JA008	15K 1/16W	1	
	R815	D0GB103JA008	10K 1/16W	1	
	R816	D0GB103JA008	10K 1/16W	1	
	R817	D0GB153JA008	15K 1/16W	1	
	R819	D0GB102JA008	1K 1/16W	1	
	R820	D0GB103JA008	10K 1/16W	1	
	R821	D0GB102JA008	1K 1/16W	1	
	R822	D0GB102JA008	1K 1/16W	1	
	R823	D0GB102JA008	1K 1/16W	1	
	R824	D0GB102JA008	1K 1/16W	1	
	R825	D0GB102JA008	1K 1/16W	1	
	R827	D0GB102JA008	1K 1/16W	1	
	R828	D0GB101JA008	100 1/16W	1	
	R829	D0GB101JA008	100 1/16W	1	
	R830	D0GB101JA008	100 1/16W	1	
	R831	D0GB102JA008	1K 1/16W	1	
	R832	D0GB104JA008	100K 1/16W	1	
	R833	D0GB104JA008	100K 1/16W	1	
	R834	D0GB101JA008	100 1/16W	1	
	R835	D0GB101JA008	100 1/16W	1	
	R836	D0GB103JA008	10K 1/16W	1	
	R837	D0GB103JA008	10K 1/16W	1	
	R845	D0GB472JA008	4.7K 1/16W	1	
	R846	D0GB472JA008	4.7K 1/16W	1	
	R848	D0GB102JA008	1K 1/16W	1	
	R849	D0GB102JA008	1K 1/16W	1	
	R850	D0GB223JA008	22K 1/16W	1	
	R853	D0GB101JA008	100 1/16W	1	
	R854	D0GB101JA008	100 1/16W	1	
	R855	D0GB101JA008	100 1/16W	1	
	R856	D0GB564JA008	560K 1/16W	1	
	R857	D0GB101JA008	100 1/16W	1	
	R858	D0GB101JA008	100 1/16W	1	
	R860	D0GB102JA008	1K 1/16W	1	
	R861	D0GB102JA008	1K 1/16W	1	
	R868	D0GB102JA008	1K 1/16W	1	
	R870	D0GB101JA008	100 1/16W	1	
	R871	D0GB102JA008	1K 1/16W	1	
	R872	D0GB472JA008	4.7K 1/16W	1	
	R873	D0GB473JA008	47K 1/16W	1	
	R874	D0GB682JA008	6.8K 1/16W	1	
	R875	D0GB103JA008	10K 1/16W	1	
	R876	D0GB823JA008	82K 1/16W	1	
	R877	D0GB103JA008	10K 1/16W	1	
	R880	D0GB101JA008	100 1/16W	1	
	R881	D0GB334JA008	330K 1/16W	1	
	R882	D0GB224JA008	220K 1/16W	1	
	R883	D0GB101JA008	100 1/16W	1	
	R884	D0GB101JA008	100 1/16W	1	
	R885	D0GB104JA008	100K 1/16W	1	
	R886	D0GB104JA008	100K 1/16W	1	
	R887	D0GB101JA008	100 1/16W	1	
	R888	D0GB103JA008	10K 1/16W	1	
	R889	D0GB123JA008	12K 1/16W	1	
	R897	D0GB472JA008	4.7K 1/16W	1	
	R898	D0GB103JA008	10K 1/16W	1	
	R899	D0GB103JA008	10K 1/16W	1	
	R901	D0GB122JA008	1.2K 1/16W	1	
	R902	D0GB152JA008	1.5K 1/16W	1	
	R903	D0GB222JA008	2.2K 1/16W	1	
	R904	D0GB332JA008	3.3K 1/16W	1	
	R905	D0GB472JA008	4.7K 1/16W	1	
	R906	D0GB682JA008	6.8K 1/16W	1	
	R911	D0GB122JA008	1.2K 1/16W	1	
	R912	D0GB152JA008	1.5K 1/16W	1	
	R913	D0GB222JA008	2.2K 1/16W	1	
	R914	D0GB332JA008	3.3K 1/16W	1	
	R915	D0GB472JA008	4.7K 1/16W	1	
	R916	D0GB561JA008	560 1/16W	1	
	R920	D0GB470JA008	47 1/16W	1	
	R921	D0GB101JA008	100 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R949	D0GB471JA008	470 1/16W	1	
	R950	D0GB471JA008	470 1/16W	1	
	R951	D0GB562JA008	5.6K 1/16W	1	
	R952	D0GB562JA008	5.6K 1/16W	1	
	R953	D0GB101JA008	100 1/16W	1	
	R955	D0GB101JA008	100 1/16W	1	
	R957	D0GB103JA008	10K 1/16W	1	
	R964	D0GB101JA008	100 1/16W	1	
	R965	D0GB101JA008	100 1/16W	1	
	R981	D0GB472JA008	4.7K 1/16W	1	
	R982	D0GB472JA008	4.7K 1/16W	1	
	R983	D0GB101JA008	100 1/16W	1	
	R984	D0GB103JA008	10K 1/16W	1	
	R985	D0GB472JA008	4.7K 1/16W	1	
	R986	D0GB104JA008	100K 1/16W	1	
	R1001	D0GB101JA008	100 1/16W	1	
	R1002	D0GB101JA008	100 1/16W	1	
	R1003	D0GB104JA008	100K 1/16W	1	
	R1004	D0GB104JA008	100K 1/16W	1	
	R1005	ERJ3GEYF753V	75K 1/10W	1	
	R1006	ERJ3GEYF753V	75K 1/10W	1	
	R1007	ERJ3GEYF513V	51M 1/10W	1	
	R1008	ERJ3GEYF513V	51M 1/10W	1	
	R1009	D0GB151JA008	150 1/16W	1	
	R1010	D0GB151JA008	150 1/16W	1	
	R1011	D0GBR00JA008	0 1/16W	1	
	R1012	D0GBR00JA008	0 1/16W	1	
	R1013	D0GB102JA008	1K 1/16W	1	
	R6804	D0GB104JA008	100K 1/16W	1	
	R6805	D0GB103JA008	10K 1/16W	1	
	R6806	D0GB102JA008	1K 1/16W	1	
	R6807	D0GB102JA008	1K 1/16W	1	
	R6808	D0GB102JA008	1K 1/16W	1	
	R7110	D0GBR00JA008	0 1/16W	1	
	R7111	D0GB103JA008	10K 1/16W	1	
	R7211	D0GB823JA008	82K 1/16W	1	
	R7212	D0GB821JA008	820 1/16W	1	
	R7214	D0GB471JA008	470 1/16W	1	
	R7217	D0GB102JA008	1K 1/16W	1	
	R7218	D0GB102JA008	1K 1/16W	1	
	R7220	D0GB105JA008	1M 1/16W	1	
	R7221	D0GB101JA008	100 1/16W	1	
	R7253	D0GB100JA008	10 1/16W	1	
	R7254	D0GB102JA008	1K 1/16W	1	
	R7315	D0GB332JA008	3.3K 1/16W	1	
	R7323	D0GB332JA008	3.3K 1/16W	1	
	R7325	D0GB331JA008	330 1/16W	1	
	R7327	D0GB102JA008	1K 1/16W	1	
	R7328	D0GB103JA008	10K 1/16W	1	
	R7329	D0GB102JA008	1K 1/16W	1	
	R7330	D0GB562JA008	5.6K 1/16W	1	
	R7331	D0GB223JA008	22K 1/16W	1	
	R7332	D0GB102JA008	1K 1/16W	1	
	R7335	D0GB101JA008	100 1/16W	1	
	R7336	D0GB100JA008	10 1/16W	1	
	R7339	D0GB102JA008	1K 1/16W	1	
	R7349	D0GB183JA008	18K 1/16W	1	
	R7401	D0GBR00JA008	0 1/16W	1	
	R7601	D0GB4R7JA008	4.7 1/16W	1	
	R7650	D0GB5R6JA008	5.6 1/16W	1	
			CAPACITORS		
	C1	F1K1C1060001	10uF 16V	1	
	C2	F1H1H104A783	0.1uF 50V	1	
	C3	F1H1H104A783	0.1uF 50V	1	
	C4	F1H1C105A097	1uF 16V	1	
	C5	F2A1E2210050	220uF 25V	1	
	C6	F1H1H104A783	0.1uF 50V	1	
	C7	F1J1E105A171	1uF 25V	1	
	C8	F1J1E105A171	1uF 25V	1	
	C9	F2A1E2210050	220uF 25V	1	
	C10	F2A1E2210050	220uF 25V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C11	F1K1H105A138	1uF 50V	1	
	C12	F1K1H105A138	1uF 50V	1	
	C13	ECQV1H104JL3	0.1uF 50V	1	
	C16	ECQV1H104JL3	0.1uF 50V	1	
	C17	F1K1H105A138	1uF 50V	1	
	C18	F1K1H105A138	1uF 50V	1	
	C21	F1J1E105A171	1uF 25V	1	
	C22	F1J1E105A171	1uF 25V	1	
	C23	F1K1E335A029	3.3uF 25V	1	
	C25	ECQV1H104JL3	0.47uF 50V	1	
	C26	ECQV1H104JL3	0.47uF 50V	1	
	C28	ECQV1H474JL3	0.47uF 50V	1	
	C29	ECQV1H474JL3	0.47uF 50V	1	
	C34	F1J1E4750002	4.7uF 25V	1	
	C35	F1J1E4750002	4.7uF 25V	1	
	C38	F1H1E334A068	0.33uF 25V	1	
	C39	F1H1E334A068	0.33uF 25V	1	
	C40	F1H1H102A219	1000pF 50V	1	
	C41	F1H1C224A074	0.22uF 16V	1	
	C52	F1H1H103A219	0.01uF 50V	1	
	C53	F1H1H103A219	0.01uF 50V	1	
	C54	F1H1H103A219	0.01uF 50V	1	
	C55	F1H1H103A219	0.01uF 50V	1	
	C101	F3H1C107A068	100uF 16V	1	
	C102	F1H1C104A042	0.1uF 16V	1	
	C103	F3H1A476A073	47uF 10V	1	
	C104	F1H1C224A074	0.22uF 16V	1	
	C105	F1H1C224A074	0.22uF 16V	1	
	C107	D0GDR00JA017	0 1/10W	1	
	C111	F2A1A101A204	100uF 10V	1	
	C112	F1J0J106A014	10uF 6.3V	1	
	C113	F2A1A101A204	100uF 10V	1	
	C114	F2A1C101A234	100uF 16V	1	
	C115	ECJ1VC1H331K	330pF 50V	1	
	C116	ECJ1VC1H331K	330pF 50V	1	
	C117	F1H1C104A042	0.1uF 16V	1	
	C118	F2A1C101A234	100uF 16V	1	
	C119	F1H1C224A068	0.22uF 16V	1	
	C120	F1H1C105A097	1uF 16V	1	
	C121	F2A1C100A234	10uF 16V	1	
	C122	F2A1H4R7A234	4.7uF 50V	1	
	C123	F2A1C101A234	100uF 16V	1	
	C204	F1H1C105A097	1uF 16V	1	
	C206	F1H1C105A097	1uF 16V	1	
	C207	F1H1H221A748	220pF 50V	1	
	C208	F1H1C105A097	1uF 16V	1	
	C212	F1H1C105A097	1uF 16V	1	
	C213	F2A0J470A013	47uF 6.3V	1	
	C214	F1H1C105A097	1uF 16V	1	
	C219	F1H1A5640001	0.56uF 10V	1	
	C220	F1H1A5640001	0.56uF 10V	1	
	C221	F1H1H332A013	3300pF 50V	1	
	C222	F1H1H103A219	0.01uF 50V	1	
	C223	F1H1H103A219	0.01uF 50V	1	
	C224	F1H1H473A783	0.047uF 50V	1	
	C225	F1H1C224A068	0.22uF 16V	1	
	C226	F1H1H332A013	3300pF 50V	1	
	C230	F1H1C105A097	1uF 16V	1	
	C231	F1H1C105A097	1uF 16V	1	
	C232	F1H1C105A097	1uF 16V	1	
	C241	F1J0J475A008	4.7uF 6.3V	1	
	C242	D0GBR00JA008	0 1/16W	1	
	C251	F1H1A824A036	0.82uF 10V	1	
	C252	ECJ1VB1A334K	0.33uF 10V	1	
	C253	F1H1C224A074	0.22uF 16V	1	
	C254	F1H1H101A230	100pF 50V	1	
	C255	F1H1A225A051	2.2uF 10V	1	
	C256	ECJ1VB1H393K	0.039uF 50V	1	
	C257	F1H1H223A219	0.022uF 50V	1	
	C258	F1H1A105A025	1uF 10V	1	
	C259	F1H1H101A230	100pF 50V	1	
	C260	F1H1H560A230	56pF 50V	1	
	C262	F2A1HR10A234	0.10uF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C263	F2A1A470A204	47uF 10V	1	
	C264	F1J1C106A059	10uF 16V	1	
	C265	F1H1H103A219	0.01uF 50V	1	
	C266	F1J1A475A039	4.7uF 10V	1	
	C301	F1H1H102A219	1000pF 50V	1	
	C303	F1H1H102A219	1000pF 50V	1	
	C304	F1H1H102A219	1000pF 50V	1	
	C305	F1H1C105A097	1uF 16V	1	
	C350	F2A1A101A184	100uF 10V	1	
	C351	F2A1C100A234	10uF 16V	1	
	C352	F1H1H471A219	470pF 50V	1	
	C353	F2A0J470A167	47uF 6.3V	1	
	C354	F1H1H561A013	560pF 50V	1	
	C355	F2A0J470A167	47uF 6.3V	1	
	C356	F1H1H102A219	1000pF 50V	1	
	C357	F1H1H470A004	47pF 50V	1	
	C358	F1H1H470A004	47pF 50V	1	
	C404	F1H1C105A097	1uF 16V	1	
	C406	F1H1C105A097	1uF 16V	1	
	C407	F1H1H221A748	220pF 50V	1	
	C408	F1H1C105A097	1uF 16V	1	
	C412	F1H1C105A097	1uF 16V	1	
	C419	F1H1A5640001	0.56uF 10V	1	
	C420	F1H1A5640001	0.56uF 10V	1	
	C421	F1H1H332A013	3300pF 50V	1	
	C422	F1H1H103A219	0.01uF 50V	1	
	C423	F1H1H103A219	0.01uF 50V	1	
	C424	F1H1C473A088	0.047uF 16V	1	
	C425	F1H1C224A068	0.22uF 16V	1	
	C441	F1J0J475A008	4.7uF 6.3V	1	
	C442	D0GBR00JA008	0 1/16W	1	
	C451	F1H1A824A036	0.82uF 10V	1	
	C452	ECJ1VB1A334K	0.33uF 10V	1	
	C453	F1H1C224A074	0.22uF 16V	1	
	C454	F1H1H101A230	100pF 50V	1	
	C455	F1H1A225A051	2.2uF 10V	1	
	C456	ECJ1VB1H393K	0.039uF 50V	1	
	C457	F1H1H223A219	0.022uF 50V	1	
	C458	F1H1A105A025	1uF 10V	1	
	C459	F1H1H101A230	100pF 50V	1	
	C460	F1H1H560A230	56pF 50V	1	
	C462	F2A1HR10A234	0.10uF 50V	1	
	C463	F2A1A470A204	47uF 10V	1	
	C464	F1J1C106A059	10uF 16V	1	
	C465	F1H1H103A219	0.01uF 50V	1	
	C466	F1J1A475A039	4.7uF 10V	1	
	C501	F2A1E332A204	3300uF 25V	1	
	C510	F1K1H105A138	1uF 50V	1	
	C511	F2A1A101A204	100uF 10V	1	
	C513	F1J1A106A043	10uF 10V	1	
	C514	F1K1A1060017	10uF 10V	1	
	C515	F2A1C100A234	10uF 16V	1	
	C516	F2A1E3310051	330uF 25V	1	
	C517	F1K1E106A078	10uF 25V	1	
	C518	F1H1H104A783	0.1uF 50V	1	
	C519	F2A1C471B237	470uF 16V	1	
	C520	F1J1A106A043	10uF 10V	1	
	C521	F2A1E3310051	330uF 25V	1	
	C522	F1K1E106A078	10uF 25V	1	
	C523	F1H1H104A783	0.1uF 50V	1	
	C524	F2A1C471B237	470uF 16V	1	
	C525	F1J1A106A043	10uF 10V	1	
	C526	F2A1C100A234	10uF 16V	1	
	C545	F1H1C104A042	0.1uF 16V	1	
	C551	F2A1C221A019	220uF 16V	1	
	C552	F2A1H2R2A234	2.2uF 50V	1	
	C553	F2A1C330A234	33uF 16V	1	
	C554	F2A0J101A245	100uF 6.3V	1	
	C555	F1H1H104A013	0.1uF 50V	1	
	C556	F2A0J221A211	220uF 6.3V	1	
	C557	F2A0J220A210	22uF 6.3V	1	
	C581	F2A1E330A202	33uF 25V	1	
	C582	F1H1H392A013	3900pF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C583	F2A0J221A245	220uF 6.3V	1	
	C584	ECEA1VKS470B	47uF 35V	1	
	C650	F2A0J221A211	220uF 6.3V	1	
	C701	F1J2E1030004	0.01uF 250V	1	
	C702	ECQU2A104MLC	0.1uF 250Vac	1	
	C703	F2A1E1020049	1000uF 25V	1	
	C705	ECQE6103KF	METALLI 630V	1	
	C706	F2A2G1010016	100uF 400V	1	
	C707	ECJ1VB1H221K	220pF 50V	1	
	C708	F1H1H472A219	4700pF 50V	1	
	C709	F1H1H104A013	0.1uF 50V	1	
△	C710	F1BAF471A013	470pF	1	
	C711	F2A1V220A184	22uF 35V	1	
	C712	ECJ1VC1H471J	470pF 50V	1	
	C713	F2A1H1R0A234	1.0uF 50V	1	
	C714	F1H1H223A219	0.022uF 50V	1	
	C716	ECKE3D821KBP	820pF 2000V	1	
	C717	F1H1E105A116	1uF 25V	1	
	C725	ECQU2A104MLC	0.1uF 250Vac	1	
△	C727	F1BAF471A013	470pF	1	
△	C728	F1BAF471A013	470pF	1	
△	C730	F1BAF1020020	1000pF	1	
	C733	F1J0J106A014	10uF 6.3V	1	
	C734	F1H1H472A219	4700pF 50V	1	
	C735	F1H1H223A219	0.022uF 50V	1	
	C736	ECQU2A104MLC	0.1uF 250Vac	1	
	C751	F2B2G1000001	10uF 400V	1	
	C753	F2A1A102A206	1000uF 10V	1	
	C754	F1K2J2220002	2200pF 630V	1	
	C755	F2A1H1R0A234	1.0uF 50V	1	
	C756	F1H1H104A013	0.1uF 50V	1	
	C757	F1H1H102A219	1000pF 50V	1	
	C758	F1H1H104A013	0.1uF 50V	1	
	C759	F2A1C102A019	1000uF 16V	1	
	C805	F1H1H220A004	22pF 50V	1	
	C806	F1H1H220A004	22pF 50V	1	
	C807	F1H1H102A219	1000pF 50V	1	
	C808	F1H1C104A042	0.1uF 16V	1	
	C810	F1H1H221A748	220pF 50V	1	
	C811	F1H1H221A748	220pF 50V	1	
	C812	F1H1H221A748	220pF 50V	1	
	C813	F1H1H472A219	4700pF 50V	1	
	C814	F1H1H102A219	1000pF 50V	1	
	C815	ECJ1VB1H681K	680pF 50V	1	
	C816	ECJ1VB1H681K	680pF 50V	1	
	C817	F1H1H102A219	1000pF 50V	1	
	C825	F1H1C105A097	1uF 16V	1	
	C826	F1H1H103A219	0.01uF 50V	1	
	C827	F2A1C100A234	10uF 16V	1	
	C828	F2A0J101A245	100uF 6.3V	1	
	C853	F1J0J106A020	10uF 6.3V	1	
	C854	F1H1H470A004	47pF 50V	1	
	C855	F1H1H470A004	47pF 50V	1	
	C871	F1H1H102A219	1000pF 50V	1	
	C872	F1H1H102A219	1000pF 50V	1	
	C873	F1H1H102A219	1000pF 50V	1	
	C874	F1H1H102A219	1000pF 50V	1	
	C875	F1H1H102A219	1000pF 50V	1	
	C876	F1H1H102A219	1000pF 50V	1	
	C877	F2A1A220A204	22uF 10V	1	
	C922	F1H1H102A219	1000pF 50V	1	
	C951	F1H1C104A042	0.1uF 16V	1	
	C952	F1H1C104A042	0.1uF 16V	1	
	C953	ECJ1VB1H472K	0.0047uF 16V	1	
	C954	F1H1C104A042	0.1uF 16V	1	
	C955	ECJ1VB1H472K	0.0047uF 16V	1	
	C956	F1H1C104A042	0.1uF 16V	1	
	C1001	F1H1H104A013	0.1uF 50V	1	
	C1002	F1H1H104A013	0.1uF 50V	1	
	C1003	F1H1H104A013	0.1uF 50V	1	
	C1004	F1H1H104A013	0.1uF 50V	1	
	C6801	F2A1V220A184	22uF 35V	1	
	C6820	F1H1H103A219	0.01uF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C6821	F1H1H221A748	220pF 50V	1	
	C6822	F1H1H221A748	220pF 50V	1	
	C6823	F1H1H221A748	220pF 50V	1	
	C6824	F1H1H103A219	0.01uF 50V	1	
	C6825	ECA1AAK220XB	22uF 10V	1	
	C6826	F2A1V220A184	22uF 35V	1	
	C6827	F1H1H104A783	0.1uF 50V	1	
	C6828	F2A1V220A184	22uF 35V	1	
	C6829	F2A1V220A184	22uF 35V	1	
	C7102	F1H1A474A025	0.47uF 10V	1	
	C7107	F1H1H223A219	0.022uF 50V	1	
	C7142	F1H1H332A013	3300pF 50V	1	
	C7154	F1H1C104A042	0.1uF 16V	1	
	C7155	F1H1C104A042	0.1uF 16V	1	
	C7161	F1H1C104A042	0.1uF 16V	1	
	C7164	ECJ2FF1A106Z	10uF 10V	1	
	C7165	ECJ2FF1A106Z	10uF 10V	1	
	C7166	F1H1H103A219	0.01uF 50V	1	
	C7203	F2A0J221A200	220uF 6.3V	1	
	C7204	F1H1C104A042	0.1uF 16V	1	
	C7216	ECJ1VB1H681K	680pF 50V	1	
	C7217	F1H1C104A042	0.1uF 16V	1	
	C7218	ECJ1VB1C823K	0.082uF 16V	1	
	C7221	ECJ1VC1H150J	15pF 50V	1	
	C7222	ECJ1VC1H150J	15pF 50V	1	
	C7223	F2A1H4R70037	4.7uF 50V	1	
	C7225	F1H1H102A219	1000pF 50V	1	
	C7226	F1H1H102A219	1000pF 50V	1	
	C7227	ECA1HAK010XI	1uF 50V	1	
	C7228	ECA1HAK010XI	1uF 50V	1	
	C7230	F1H1C104A042	0.1uF 16V	1	
	C7231	F2A0J221A200	220uF 6.3V	1	
	C7232	F2A0J221A200	220uF 6.3V	1	
	C7233	F1H1C104A008	0.1uF 16V	1	
	C7234	F1H1C104A042	0.1uF 16V	1	
	C7235	F2A1C100A133	10uF 16V	1	
	C7241	F1H1H102A219	1000pF 50V	1	
	C7243	F1H1C104A008	0.1uF 16V	1	
	C7244	F1H1C153A001	0.015uF 16V	1	
	C7253	F1H1H471A219	470pF 50V	1	
	C7263	F1H1C104A042	0.1uF 16V	1	
	C7264	F1H1C104A042	0.1uF 16V	1	
	C7315	F1H1A474A025	0.47uF 10V	1	
	C7334	ECEA1AKA221I	220uF 10V	1	
	C7335	F1H1C104A008	0.1uF 16V	1	
	C7338	F1H1C563A055	0.056uF 16V	1	
	C7339	F1H1C183A001	0.018uF 16V	1	
	C7352	F1H1C183A001	0.018uF 16V	1	
	C7401	F1H1C104A042	0.1uF 16V	1	
	C7402	F1H1C104A042	0.1uF 16V	1	
	C7601	ECEA0JKA330I	33uF 6.3V	1	
	C7613	F1H1C104A042	0.1uF 16V	1	
	C7614	F2A0J101A198	100uF 6.3V	1	
	C7626	F1H1C104A042	0.1uF 16V	1	
	C7670	F1H1C104A042	0.1uF 16V	1	