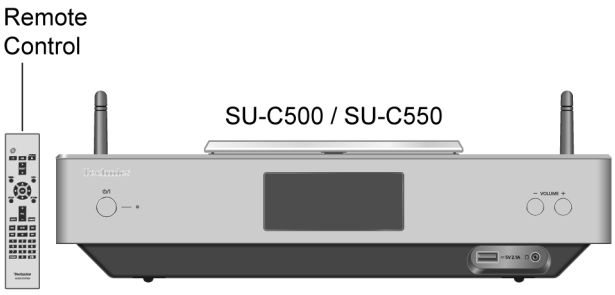
PSG1511001CE
A6

Service Manual

CD Stereo System

Model No. SU-C500EB
SU-C500EG
SU-C500GN
SU-C500PP
SU-C550EB
SU-C550EG
SC-C500EB
SC-C500EG
SC-C500GN
SC-C500PP



Product Color: (S)...Silver Type

Please refer to the original service manual for:
● **Speaker system SB-CT500EG-K, Order No. PSG1511002CE (For SU-C500EB/EG/GN/PP only)**

⚠ 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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Technics®

1 Safety Precautions

1.1. General Guidelines

1. **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 Layout, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-RADIATION, shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.
2. An Isolation Transformer should always be used during the servicing of AC Adaptor whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks. It will also protect AC Adaptor from being damaged by accidental shorting that may occur during servicing.
3. 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.
4. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
5. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

(This "Safety Precaution" is applied only in U.S.A.)

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

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 1MΩ and 5.2MΩ.
   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 1.5kΩ, 10 watts resistor, in parallel with a 0.15μF capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1-1.
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.

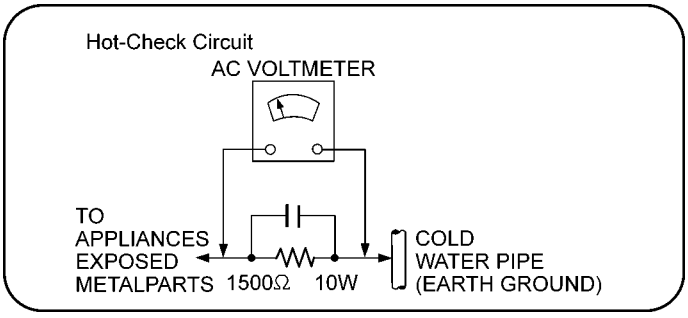


Figure 1-1

1.2. Before Repair and Adjustment

Disconnect Power Supply AC to discharge AC capacitor in SMPS P.C.B. through a 1W / 10Ω resistor to ground.

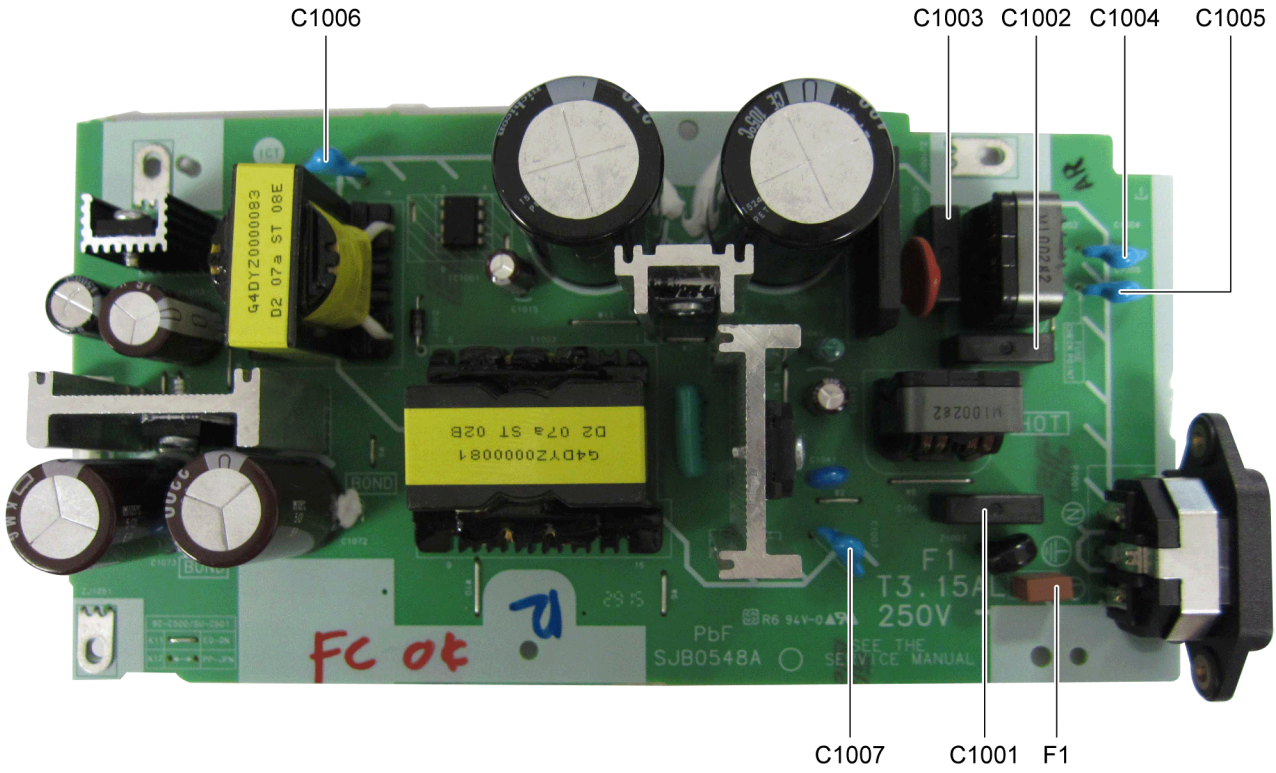


Figure 1-2

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 220V - 240V, during power on (In Standby mode) should be ~0.30W. (EB/EG/GN)
- Current consumption at AC 120V, during power on (In Standby mode) should be ~0.30W. (PP)

1.3. 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.

1.4. Caution For AC Cord (For EB)

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 Ψ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as stated below.
If in any doubt please consult a qualified electrician.

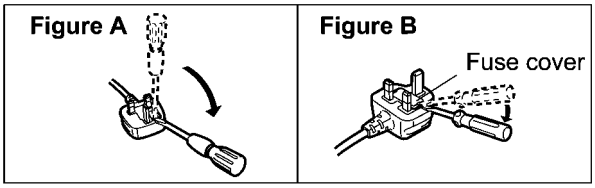
IMPORTANT
The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral, Brown: Live.
As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal 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.



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

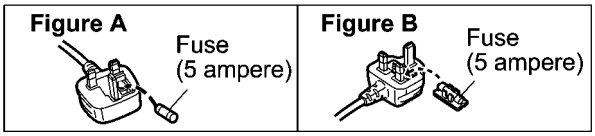


Figure 1-3

1.5. Safety Parts Information

Safety Parts List:

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

These parts are marked by ⚠ 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.

1.5.1. SU-C500EB/EG/GN/PP

Safety	Ref No.	Part No.	Part Name & Description	Remarks
⚠	18	RGG0277-S	TOP AL PANEL	
⚠	19	RGG0278-S	SIDE AL PANEL L	
⚠	20	RGG0279-S	SIDE AL PANEL R	
⚠	29	RGR0483A-A1	REAR PANEL	EB/EG/ GN
⚠	29	RGR0483A-B	REAR PANEL	PP
⚠	301	RAE5307Z-V	TRAVERSE UNIT	
⚠	PCB4	SEP0548AB	SMPS P.C.B	PP
⚠	PCB4	SEP0548AA	SMPS P.C.B	EB/EG/ GN
⚠	F1	K5G312Y00007	FUSE	
⚠	F2	K5G202Y00006	FUSE	
⚠	IP7001	ERBRE1R50V	FUSE	

1.5.2. SC-C500EB/EG/GN/PP

Safety	Ref No.	Part No.	Part Name & Description	Remarks
⚠	A1	K2CG3YY00191	AC CORD	PP
⚠	A1	K2CK3YY00083	AC CORD	GN
⚠	A1	K2CM3YY00041	AC CORD	EG
⚠	A1	K2CT3YY00081	AC CORD	EB
⚠	A3	SQT1065	OI (Sp/Sw/Da/Fi)	EG
⚠	A3	SQT1066	OI (En)	EB/GN
⚠	A3	SQT1068	OI (En/Cf)	PP
⚠	A3	SQT1113	OI (Ge/Fr/It/Du)	EG

1.5.3. SU-C550EB/EG

Safety	Ref No.	Part No.	Part Name & Description	Remarks
⚠	18	RGG0277-S	TOP AL PANEL	
⚠	19	RGG0278-S	SIDE AL PANEL L	
⚠	20	RGG0279-S	SIDE AL PANEL R	
⚠	29	RGR0483B-A	REAR PANEL	
⚠	301	RAE5307Z-V	TRAVERSE UNIT	
⚠	A1	K2CM3YY00041	AC CORD	EG
⚠	A1	K2CT3YY00081	AC CORD	EB
⚠	A3	SQT1114	OI (En)	EB
⚠	A3	SQT1115	OI (Ge/Fr/It/Du)	EG
⚠	A3	SQT1116	OI (Sp/Sw/Da/Fi)	EG
⚠	PCB4	SEP0548AA	SMPS P.C.B	
⚠	F1	K5G312Y00007	FUSE	
⚠	F2	K5G202Y00006	FUSE	
⚠	IP7001	ERBRE1R50V	FUSE	

2 Warning

2.1. Prevention of Electrostatic 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 IC (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 aluminum foil, to prevent electrostatic charge buildup 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 removal 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, aluminum 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).

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2.2. Precaution of Laser Diode

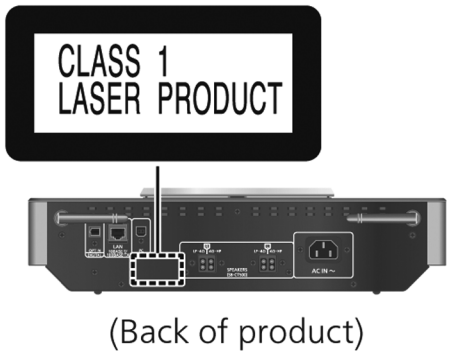
CAUTION:
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

Caution:

This product utilizes a laser diode with the unit turned “on”, invisible laser radiation is emitted from the pickup lens.
Wavelength: 790 nm (CD)
Maximum output radiation power from pickup: 100 μW/VDE
Laser radiation from the pickup unit is safety level, but be sure the followings:

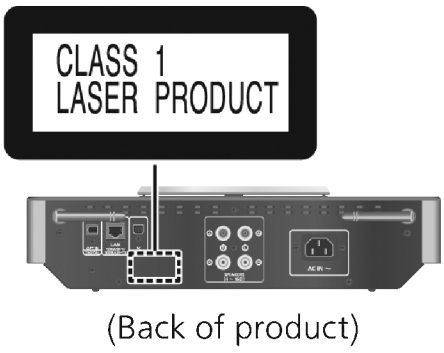
1. Do not disassemble the pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

SU-C500EB/EG/GN/PP



(Back of product)

SU-C550EB/EG



(Back of product)

Figure 2-1

2.3. 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%

2.4. Handling Precautions for Traverse Unit

The laser diode in the optical pickup unit may break down due to static electricity of clothes or human body. Special care must be taken avoid caution to electrostatic breakdown when servicing and handling the laser diode in the traverse unit.

2.4.1. Cautions to Be Taken in Handling the Optical Pickup Unit

The laser diode in the optical pickup unit may be damaged due to electrostatic discharge generating from clothes or human body. Special care must be taken avoid caution to electrostatic discharge damage when servicing the laser diode.

1. Do not give a considerable shock to the optical pickup unit as it has an extremely high-precise structure.
2. To prevent the laser diode from the electrostatic discharge damage, the flexible cable of the optical pickup unit removed should be short-circuited with a short pin or a clip.
3. The flexible cable may be cut off if an excessive force is applied to it. Use caution when handling the flexible cable.
4. The antistatic FFC is connected to the new optical pickup unit. After replacing the optical pickup unit and connecting the flexi-

ble cable, cut off the antistatic FFC.

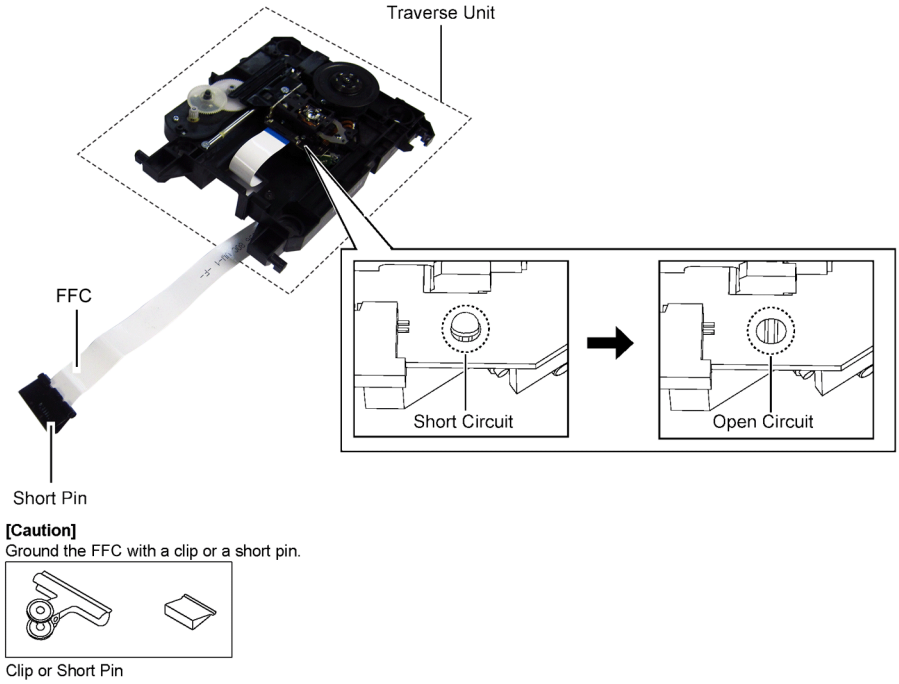


Figure 2-2

2.5. Grounding for electrostatic breakdown prevention

- As for parts that use optical pick-up (laser diode), the optical pick-up is destroyed by the static electricity of the working environment.
  Repair in the working environment that is grounded.

2.5.1. Worktable grounding

- Put a conductive material (sheet) or iron sheet on the area where the optical pickup is placed and ground the sheet.

2.5.2. Human body grounding

- Use the anti-static wrist strap to discharge the static electricity form your body Figure 2-3.

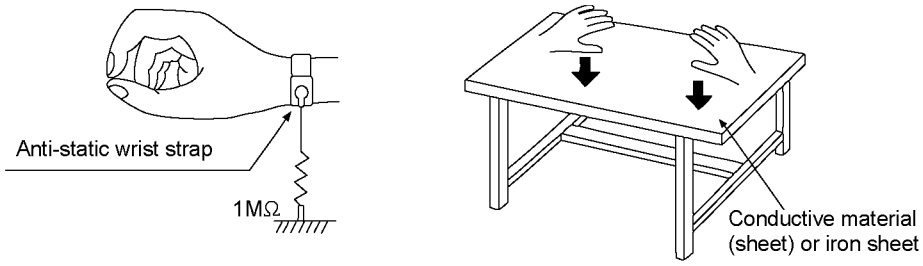


Figure 2-3

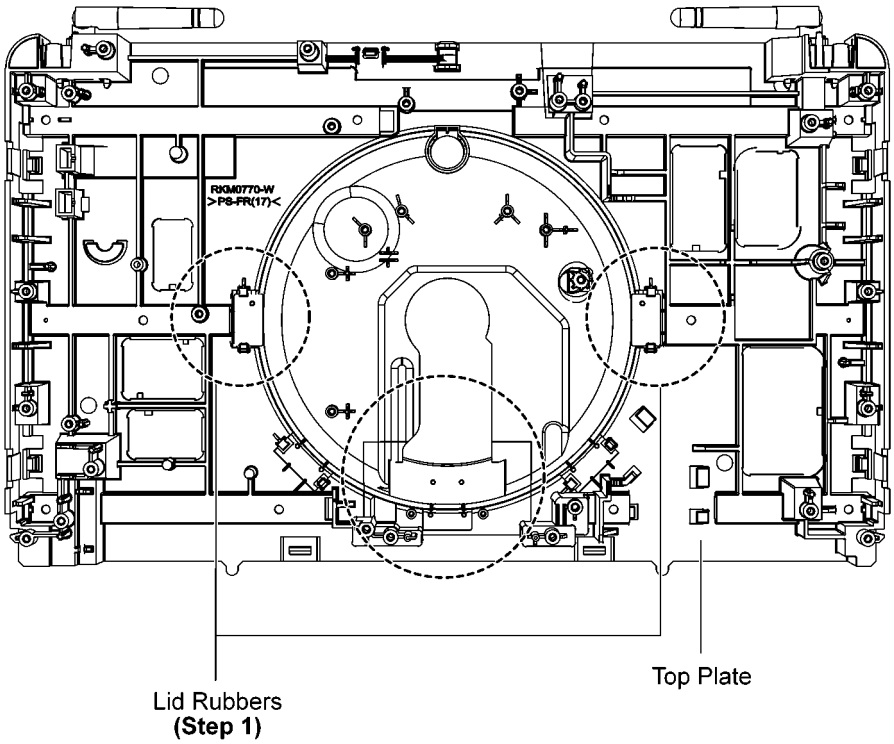
3 Service Navigation

3.1. Service Information

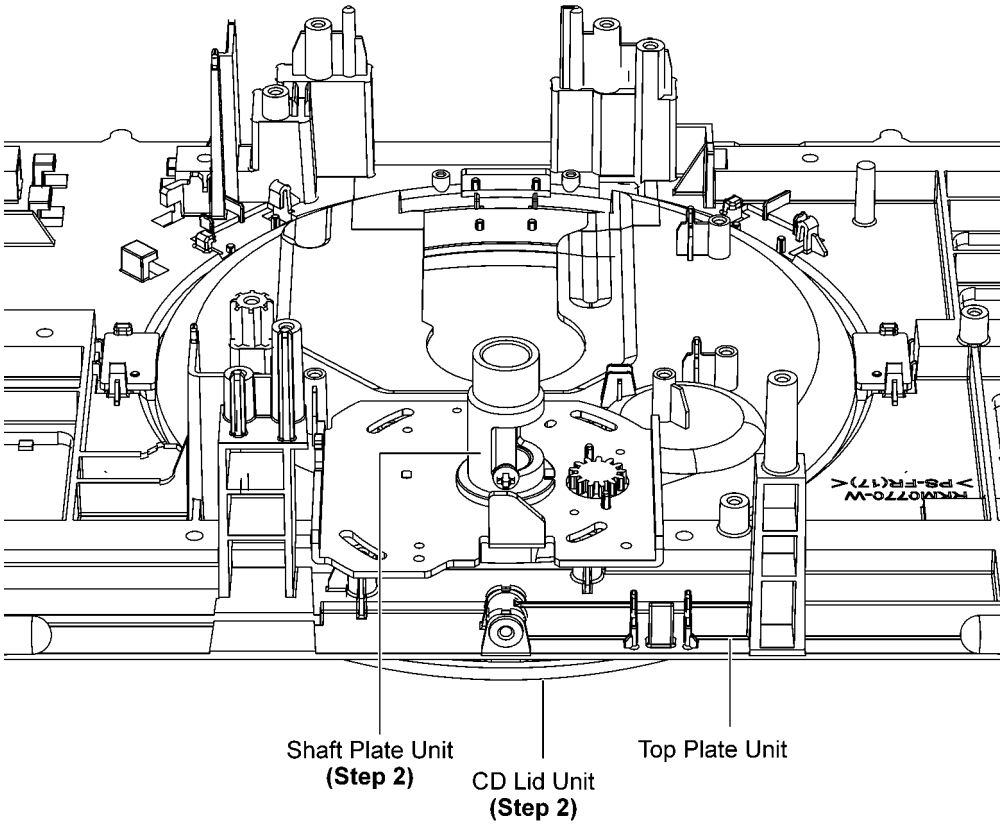
This service manual contains technical information which will allow service personnel's to understand and service this model.
Please place orders using the parts list and not the drawing reference numbers.
If the circuit is changed or modified, this information will be followed by supplement service manual to be filed with original service manual.

- **Positioning CD Lid for Service.**

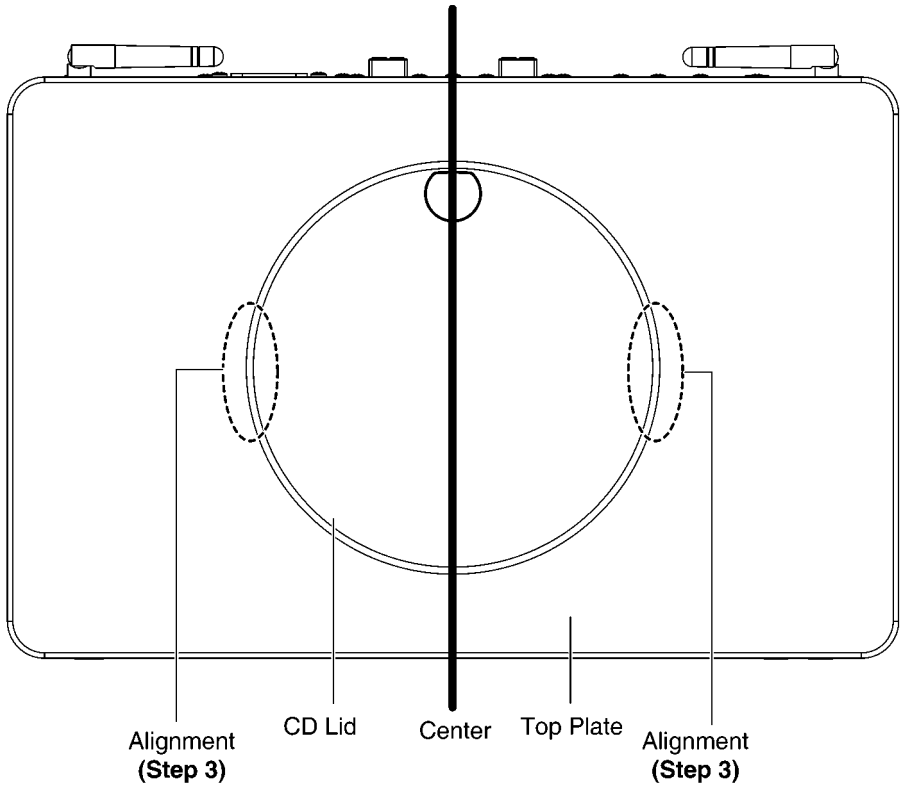
Step 1 Confirm 3 Lid Rubbers are assembled to Top Plate.
- Rubbers are effective for anti-slip of CD Lid.



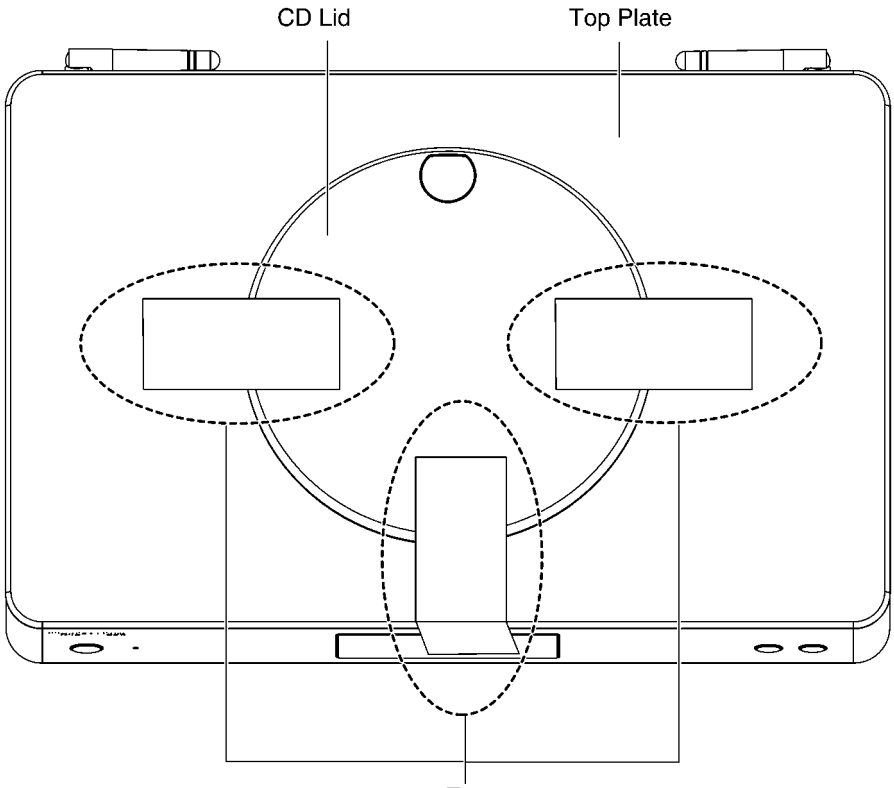
Step 2 Temporary assemble CD Lid Unit and Shaft Plate Unit to Top Plate Unit.



Step 3 Align CD Lid to the center of Top Plate
- Make sure that both sides are equally.

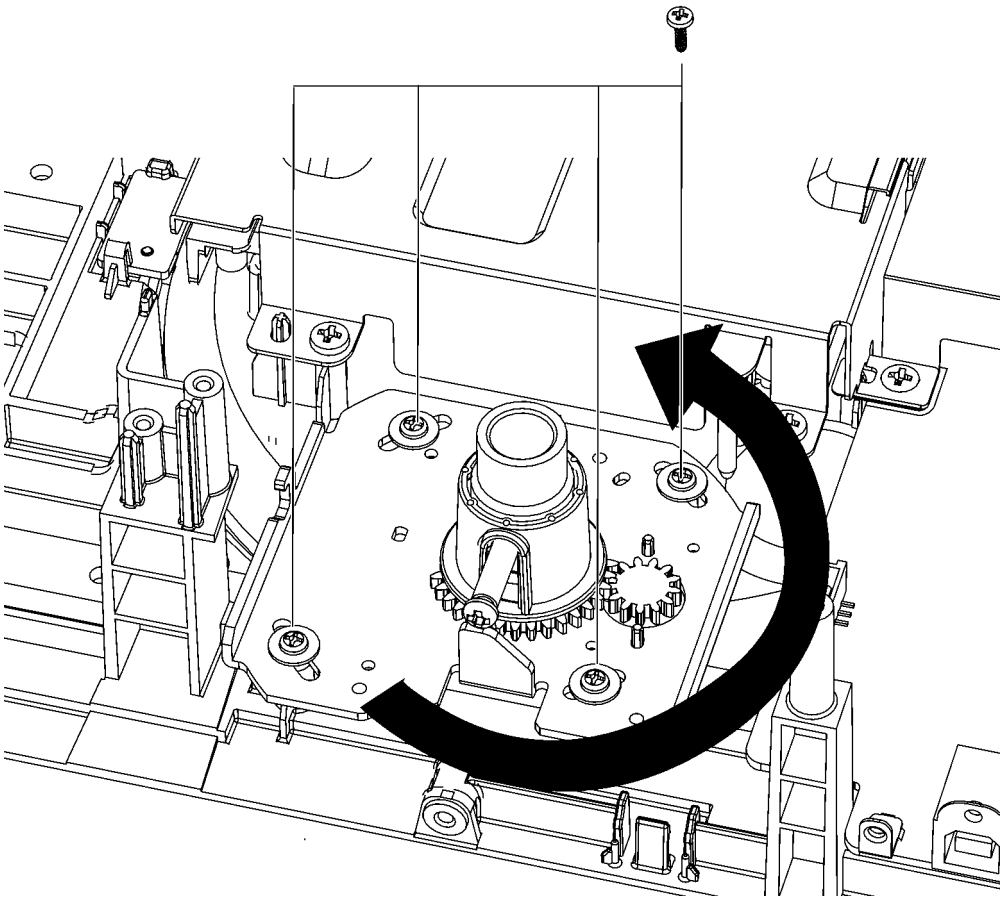


Step 4 Fix CD Lid to Top Plate with Curing Tape.
- Tape left side and right side and front side.



(Step 4)

Step 5 With applying pressure as below figure, fix Shaft Plate with 4 screws.
- Tightening Torque 3.0 ~ 6.0 kgf.cm.



4 Specifications

■ **General**

Power supply	AC 220 V to 240 V, 50/60 Hz (EB/EG/GN) AC 120 V, 60 Hz (PP)
Power consumption	60 W (For SU-C500) 50 W (For SU-C550)
Power consumption in standby mode (Network Standby Off*)	Approx. 0.3 W
Power consumption in standby mode (Network Standby On*)	Approx. 2.6 W
Dimensions (main unit) (W x H x D)	360 mm x 91 mm x 248.5 mm (For SU-C500) 360 mm x 91 mm x 258 mm (For SU-C550)
Mass (main unit)	Approx. 3.9 kg
Operating temperature range	0 °C to +40 °C
Operating humidity range	35% to 80% RH (no condensation)

*: At the time of iPod/iPhone/iPad non-charging.

■ **Amplifier section (For SU-C500)**

Output power	Woofer: 40 W + 40 W (1 kHz, T.H.D. 0.5 %, 4 Ω, 20 kHz LPF) Tweeter: 10 W + 10 W (5 kHz, T.H.D. 0.5 %, 4 Ω, 20 kHz LPF)
Load impedance	Woofer: 4 Ω Tweeter: 4 Ω

■ **Amplifier section (For SU-C550)**

Output power	20 W + 20 W (1 kHz, T.H.D. 0.5 %, 8 Ω, 20 kHz LPF) 40 W + 40 W (1 kHz, T.H.D. 0.5 %, 4 Ω, 20 kHz LPF)
Load impedance	4 Ω - 16 Ω
Frequency response	20 Hz - 90 kHz (-3 dB, 8 Ω)

■ **Disc section**

Playable Disc (8 cm or 12 cm)	CD, CD-R, CD-RW
Pick up	
Wavelength	790 nm (CD)
Laser power	CLASS 1
Format	CD-DA

■ **Speaker Section (SU-C500)**

Speaker unit(s)	
Woofer	8 cm x 2/ch, Cone type
Tweeter	1.2 cm x 3/ch, Dome type
Impedance	Woofer: 4 Ω Tweeter: 4 Ω

■ **Bluetooth® Section**

Bluetooth® system specification	Bluetooth® Ver.2.1+EDR
Wireless equipment classification	Class 2 (2.5 mW)
Supported profiles	A2DP, AVRCP
Supported codec	AAC, SBC
Frequency band	2.4 GHz band FH-SS
Operating distance	Approx. 10 m Line of sight*

*: Prospective communication distance
Measurement environment:
Temperature 25 °C/ Height 1.0 m
Measuring in "MODE 1"

■ **Terminals section**

Headphones Jack	Stereo, Ø3.5 mm
USB	FRONT USB Type A Connector
Support Memory Capacity	2 TB (max)
Maximum number of folders (albums)	800
Maximum number of files (songs)	8000
File system	FAT16, FAT32
USB port power	DC OUT 5 V 2.1 A (max)
PC	REAR USB Type B Connector
Ethernet interface	LAN (100BASE-TX/10BASE-T)
Digital Input	Optical digital input (Optical terminal)
Format support	LPCM

■ **Format section**

USB-A	
USB Standard	USB 2.0 high-speed USB Mass Storage class
USB-B	
USB Standard	USB 2.0 high-speed
USB Audio Class specification	USB Audio Class 2.0, Asynchronous mode
DSD control mode	ASIO Native mode, DoP mode

■ **Wi-Fi section**

WLAN Standard	IEEE802.11a / b / g / n
Frequency Band	2.4 GHz band (1 - 13 ch) / 5 GHz band (36, 40, 44, 48 ch)
Security	WPA2™, Mixed mode WPA2™/WPA™
Encryption Type	TKIP / AES
Authentication type	PSK WEP (64 bit/128 bit)
WPS version	Version 2.0

Note:

- Specifications are subject to change without notice. Mass and dimension are approximate.
- Total harmonic distortion is measured by the digital spectrum analyzer.

■ **System: SC-C500EB-S**

Main Unit: SU-C500EB-S
Speakers: SB-CT500EG-K

■ **System: SC-C500EG-S**

Main Unit: SU-C500EG-S
Speakers: SB-CT500EG-K

■ **System: SC-C500GN-S**

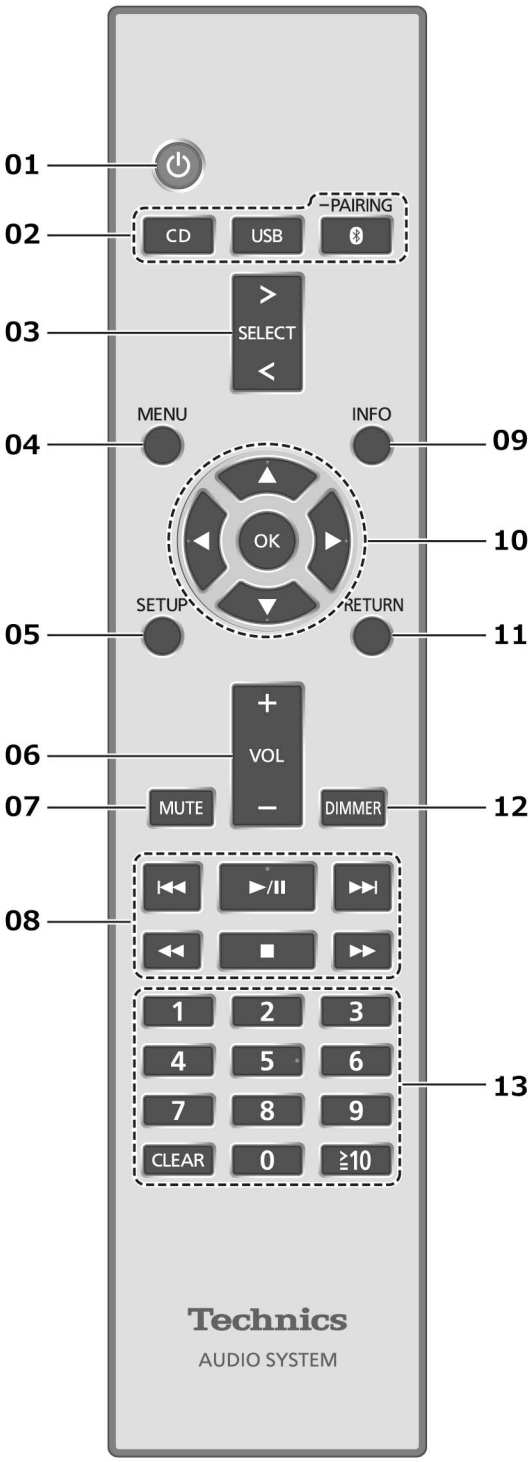
Main Unit: SU-C500GN-S
Speakers: SB-CT500EG-K

■ **System: SC-C500PP-S**

Main Unit: SU-C500PP-S
Speakers: SB-CT500EG-K

5 Location of Controls and Components

5.1. Remote Control Key Button Operation



01 [⏻]: 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.

02 [CD]/[USB]/[-PAIRING]: Select the device to be operated

03 [>SELECT<]: Switch the input source

04 [MENU]: Enter menu

05 [SETUP]: Enter setup menu

06 [+VOL-]: Adjust the volume
- 0 (min) to 100 (max)

07 [MUTE]: Mute the sound
- Press [MUTE] again to cancel. "MUTE" is also cancelled when you adjust the volume or when you turn the unit to standby.

08 Basic playback control buttons

09 [INFO]: View content information
- Press this button to display the track, artist, and album names, file type, sampling frequency, and other information. (The information varies depending on the input source.)

10 [▲], [▼], [◀], [▶]/[OK]: Selection/OK

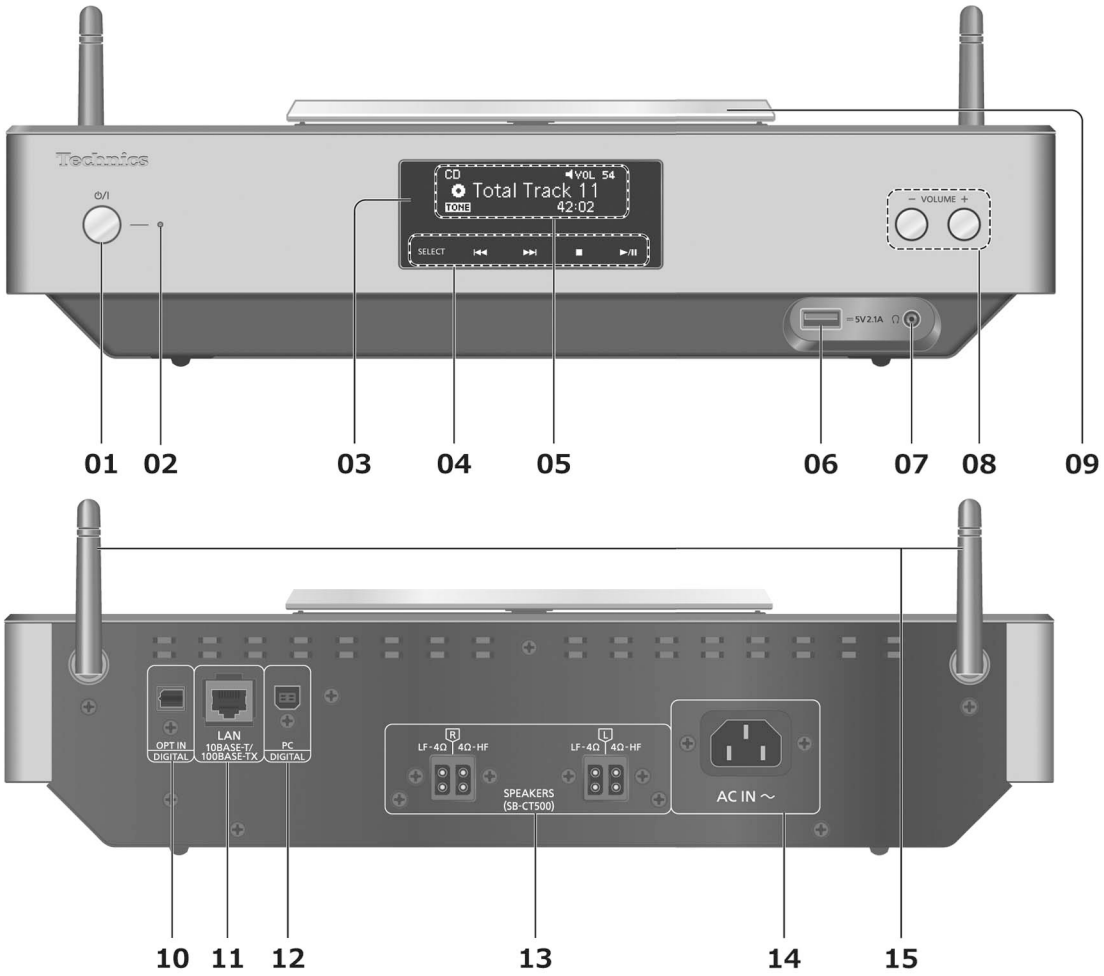
11 [RETURN]: Return to the previous display

12 [DIMMER]: Adjust the brightness of the display, etc.
- When the display is turned off, it will light up only when you operate this unit. Before the display turns off again, "Display Off" will be displayed for a few seconds. (Basic control buttons on this unit are not turned off.)
- Press repeatedly to switch the brightness.

13 Numeric buttons, etc.
- To select a 2-digit number
  Example:
  16: [≧10] > [1] > [6]
- To select a 4-digit number
  Example:
  1234: [≧10] > [≧10] > [≧10] > [1] > [2] > [3] > [4]
- [CLEAR]: Clear the entered value.

5.2. Main Unit Key Button Operation

5.2.1. SU-C500EB/EG/GN/PP



01 Unit on/off button
- Use this button to turn the unit on and off.

02 Power indicator
- Blue: The unit is on.
- Red: The unit is turned off with the following status.
  - Network standby function is available.
  - Charging an iPhone/iPad/iPod

03 Remote control signal sensor
- Distance: Within approx. 7 m directly in front
- Angle: Approx. 30° left and right

04 [SELECT]/[I◀◀], [▶▶I], [■], [►/II]: Switch the input source/Basic control buttons
- These switches work just by touching the marks. Each time you touch the switch, there will be a beep sound.

05 Display
- Input source, playback status, etc. are displayed. For details, visit: www.technics.com/support/

06 USB-A terminal
- Port for iPhone/iPad/iPod and USB devices

07 Headphones jack
- When a plug is connected, the speakers do not output sound.
- Excessive sound pressure from earphones and headphones can cause hearing loss.
- Listening at full volume for long periods may damage the user's ears.

08 Adjust volume
- 0 (min) to 100 (max)

09 Top cover

10 Optical digital input terminal

11 LAN terminal

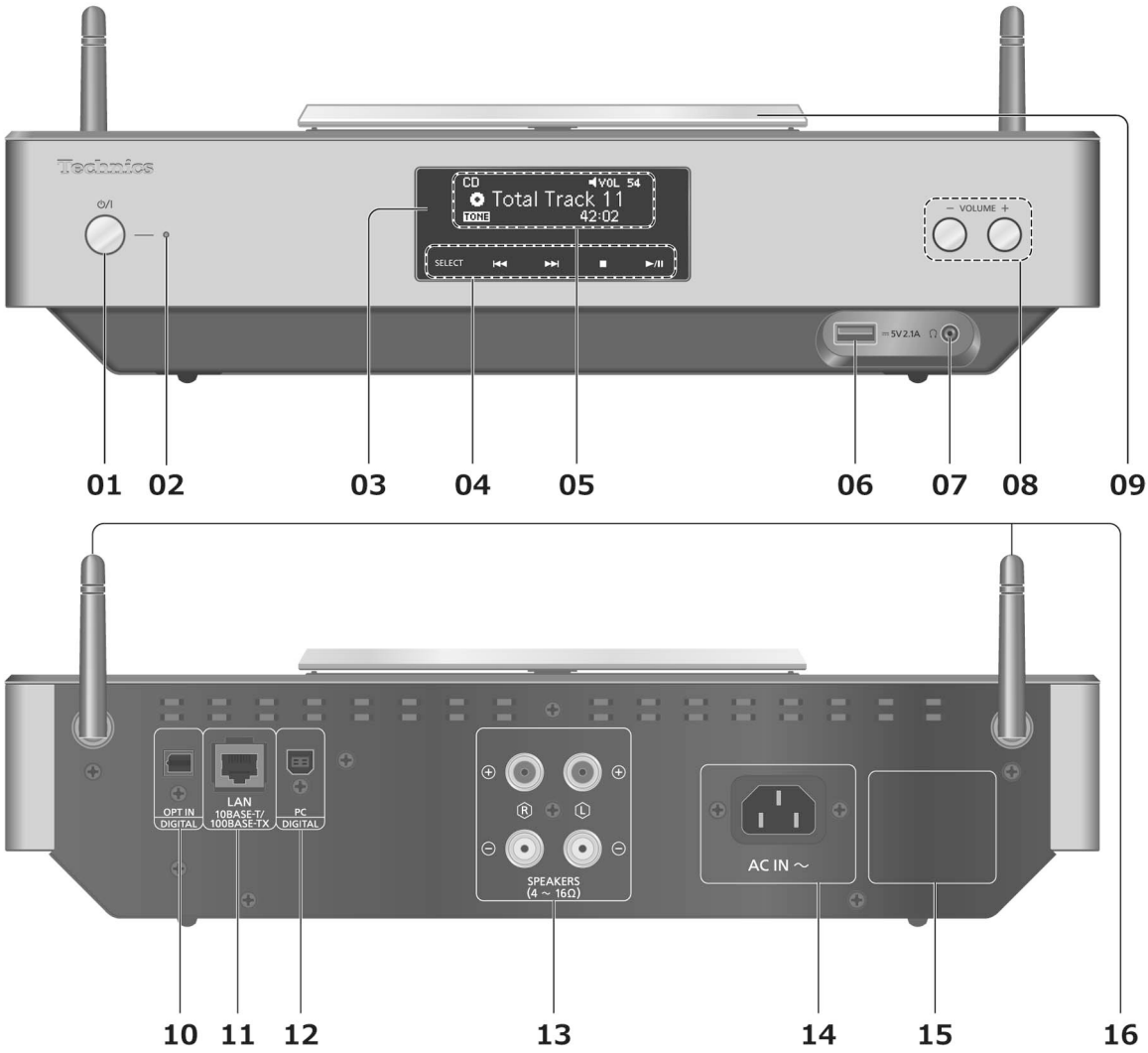
12 USB-B terminal
- For connecting to a PC, etc.

13 Speaker output terminals

14 AC IN terminal

15 Wireless LAN antenna

5.2.2. SU-C550EB/EG



01 Standby/on switch (⏻/I)
- Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

02 Power indicator
- Blue: The unit is on.
- Red: The unit is in standby mode with the following status.
  - Network standby function is available.
  - Charging an iPhone/iPad/iPod
- Off: The unit is in standby mode with no function available.

03 Remote control signal sensor
- Distance: Within approx. 7 m directly in front
- Angle: Approx. 30° left and right

04 [SELECT]/[I◀◀], [▶▶I], [■], [►/II]: Switch the input source Basic control buttons
- These switches work just by touching the marks. Each time you touch the switch, there will be a beep sound.

05 Display
- Input source, playback status, etc. are displayed. For details, visit: www.technics.com/support/

06 USB-A terminal
- Port for iPhone/iPad/iPod and USB devices

07 Headphones jack
- When a plug is connected, the speakers do not output sound.
- Excessive sound pressure from earphones and headphones can cause hearing loss.
- Listening at full volume for long periods may damage the user's ears.

08 Adjust volume
- 0 (min) to 100 (max)

09 Top cover

10 Optical digital input terminal

11 LAN terminal

12 USB-B terminal
- For connecting to a PC, etc.

13 Speaker output terminals

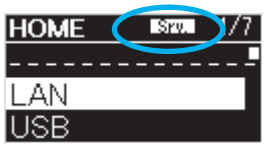
14 AC IN terminal

15 Product identification marking
- The model number is indicated.

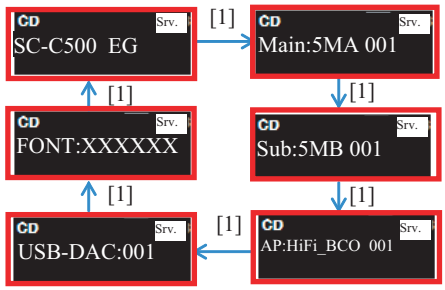
16 Wireless LAN antenna

6 Service Mode

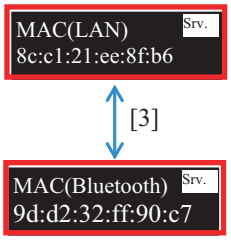
6.1. Service Mode

Item		FL Display	Key Operation
Mode Name	Description		Front Key
Service Mode	To enter into Service Mode	 - Header line of OLED shows "Srv." with flashing (1Hz) continuously.	1. Power On the main set (AC On, Power SW (main unit) On). 2. Press and hold the [STOP] on main unit. 3. Press [6] button on the remote control with holding the [STOP]. 4. Press [9] button on the remote control with holding the [STOP]. - Only this operation sequence, Main set go to Service Mode. - To confirm the firmware version, it should turn on the Bluetooth module even selector is not Bluetooth.

6.1.1. Service Mode Table 1

Item		FL Display	Key Operation
Mode Name	Description		Front Key
Model, Region, Firmware Version and Font Verify Confirmation	To determine the Model, Region, Firmware version and Font verify.	 Model Name: [SC-C500] "SC-C500" + region / [SU-C550] "SU-C550" + region Main micon: "5MA" + Version Number Sub micon: "5MB" + Version Number AirPlay micon: "HiFi_BCO" + Version Number *) Before getting the version number, it will be blank. USB-DAC: "USB-DAC" + Version Number FONT: "FONT" + XXXXXX (check sum [3 Byte] for the latter half which is the font area in EEPROM) *) The check sum will be included in every official F/W release.	In Service Mode: 1. Press [1] key indicates Model Name, Region, and Firmware Version of each device. 2. Press [0] key return to normal display (maintain service mode). - "001" means each version number.

6.1.2. Service Mode Table 2

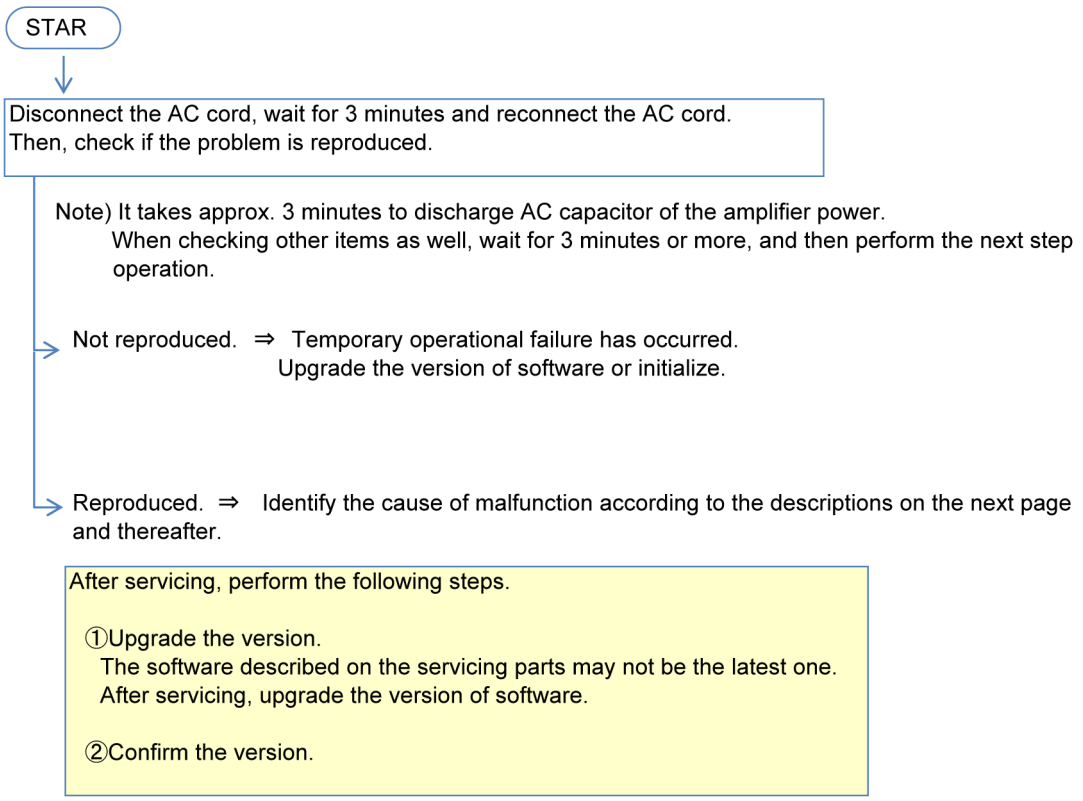
Item		FL Display	Key Operation
Mode Name	Description		Front Key
MAC Address Confirmation	To determine the MAC Address.		In Service Mode: 1. Press [3] key on remocon, it shows Ether (LAN) MAC address and Bluetooth MAC address. 2. Press [0] key return to normal display (maintain service mode).

6.1.3. Service Mode Table 3

Item		FL Display	Key Operation	Solution (PCB exchange repair)
Mode Name	Description		Front Key	
Error Code F61	Diagnosis Contents: Power Amp IC output abnormal. Upon power on, PCONT=HIGH, DC_DET_AMP after checking LSI.	F61	Press [■] on main unit for next error. To exit, press [⏻/I] on main unit or remote control.	Exchange AMP PCB.
Error Code F76	Diagnosis Contents: Power Amp IC output abnormal. DC_DET_PWR.	F76	Press [■] on main unit for next error. To exit, press [⏻/I] on main unit or remote control.	Confirmation of connecting between SMPS-AMP PCB and AMP PCB - MAIN PCB, exchange SMPS PCB or AMP PCB or MAIN PCB.
Error Code F70	Diagnosis Contents: Bluetooth Communication. Communication between Bluetooth module and micro-p abnormal.	F70	Press [■] on main unit for next error. To exit, press [⏻/I] on main unit or remote control.	Confirmation of connecting between AMP PCB - MAIN PCB, Bluetooth - MAIN PCB. Exchange AMP PCB, MAIN PCB or Bluetooth PCB.
Error Code F77	Diagnosis Contents: Bluetooth Address Error If there is no valid Bluetooth address stored in the EEPROM IC.	F77	Press [■] on main unit for next error. To exit, press [⏻/I] on main unit or remote control.	Exchange MAIN PCB.
Error Code U82 (USB)	Diagnosis Contents: USB over current Error.	F82	Press [■] on main unit for next error. To exit, press [⏻/I] on main unit or remote control.	Confirmation of USB memory, exchange USB PCB.
Error Code F78 (VirtualBatt)	Diagnosis Contents: Virtual Battery Error.	F78	Press [■] on main unit for next error. To exit, press [⏻/I] on main unit or remote control.	Exchange MAIN PCB.
Error Code No Play	Diagnosis Contents: CD Device Error.	NO PLAY	Press [■] on main unit for next error. To exit, press [⏻/I] on main unit or remote control.	Confirmation of CD DISC, exchange CD TRV UNIT, exchange MAIN PCB.
Error Code No Play (for 3 sec)	Diagnosis Contents: CD Decode Error.	NO PLAY (for 3 sec)	Press [■] on main unit for next error. To exit, press [⏻/I] on main unit or remote control.	Confirmation of CD DISC, exchange CD TRV UNIT, exchange MAIN PCB.

7 Troubleshooting Guide

7.1. Preparations



7.2. No power

No power

・The LED does not illuminate.
・No response. (No relay operation sound, either.)

↓

① SMPS P.C.B.: Is alternating current present at AC Inlet(P1001)?

Pass ↓

Fail → Replace the AC cord.

② SMPS P.C.B.: Is fuse (F1) working properly?

Pass ↓

Fail → Replace SMPS P.C.B.

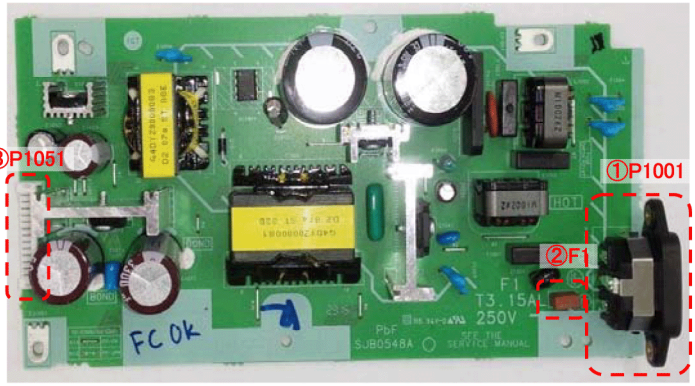
③ SMPS P.C.B.: Is the correct voltage present at connector (P1051) ?

Pass ↓

Between P1501-pin1 and -pin3: +12.7V?
Fail → Remove the line connecting between SMPS P.C.B. and AMP P.C.B., and check the voltage again.

・Still fail → Replace SMPS P.C.B.
・Voltage restored to normal → Replace the AMP P.C.B. or Main P.C.B.

《 How to identify the cause of malfunction for AMP P.CB. or Main P.C.B.》
1) Remove FFC connecting P8502 and P4551.
2) Check the continuity between P4551-30pin and -26pin..
・If shorted (0Ω) → Replace Main P.C.B.
・If not shorted (100kΩ or more) → Replace AMP P.C.B..



↓

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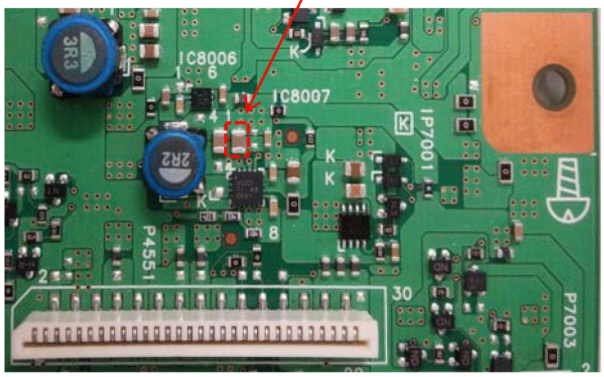
Main P.C.B.: Does the power source IC(IC8007) output +5.2V?

Pass

Fail

Voltage at both ends of C8004: +5.0 to +5.4V



Does the symptom improve after OLED P.C.B. is removed?

Pass

Fail → Replace Main P.C.B.

Is the FFC connecting Main P.C.B. and OLED P.C.B. damaged?

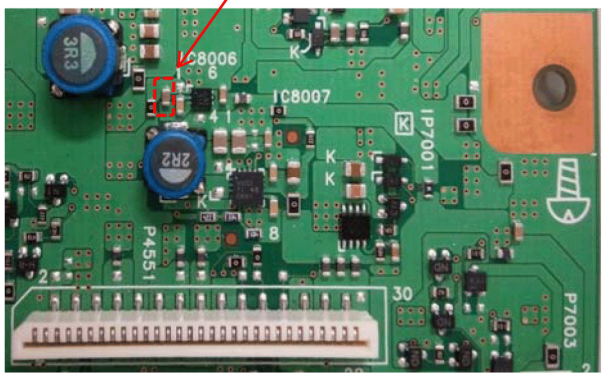
・If FFC is damaged → Replace the FFC.
・If FFC is not damaged → Replace the OLED P.C.B..

Main P.C.B.: Does the power source IC(IC8006) output +3.3V?

Pass

Fail → Replace Main P.C.B..

Voltage at both ends of C8008: +3.1 to +3.4V



Note) IC8006 operates with AC IN.
It outputs +3.3V regardless of the main power switch S9701.
If +3.3V is not output, the main microcomputer does not operate.

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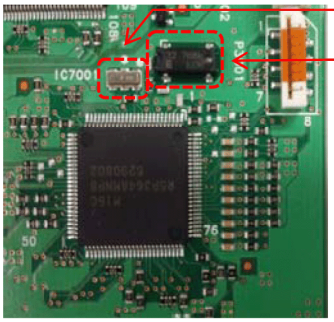
Main P.C.B.: Is the clock (X7001, X7002) of the main microcomputer (IC7001) oscillating?

Pass

Fail → Replace Main P.C.B..



X7001: 4.00MHz Main clock

X7002: 32.768KHz Sub clock

Note)
The main microcomputer controls the whole system.
It operates regardless of the power switch status.

In standby mode, it enters the energy saving mode when time passes.
Then, 4MHz oscillation stops, however, (32KHz keeps working).
When the power switch is operated, 4MHz starts to oscillate again.

Is the main power switch S9701 functioning?

a) OLED P.C.B.: Is the voltage between P7604-pin1 and -pin2 normal?
While pressing and holding the key: 0V, While not pressing and holding the key: +2.7V or more

Pass

→ Fail
The voltage is not 0V while pressing and holding the key → Replace Power SW P.C.B..
If the voltage is not +2.7V or more while not pressing and holding the key → Go to step b).

b) Is there continuity between OLED P.C.B.: P7604-pin1 and Main P.C.B.: P7005-pin26?

Pass

Fail → Check FFC for continuity/damage.
・If damaged, replace FFC.
・If not damaged, replace OLED P.C.B.

a) OLED P.C.B.: Check continuity between P7604-pin1 and -pin2.

Pass

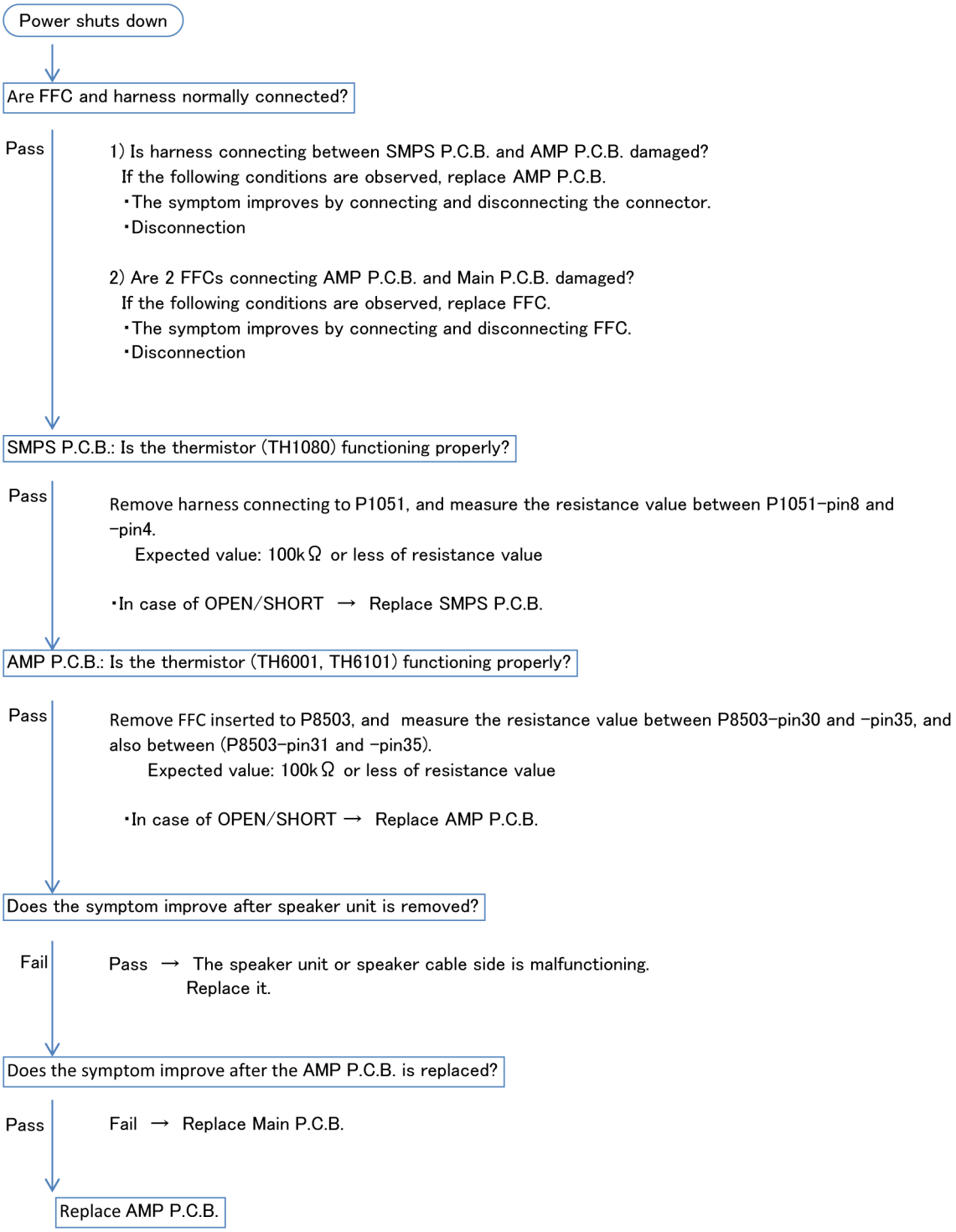
→ Fail
If not shorted (100kΩ or more) → Replace Main P.C.B.
If shorted (0Ω) → Identify the PCB/Replace it.

《Identify the shorted PCB.》
1) Remove the FFC between Main P.C.B. and OLED P.C.B., and remove the harness between OLED P.C.B. and Power SW P.C.B.

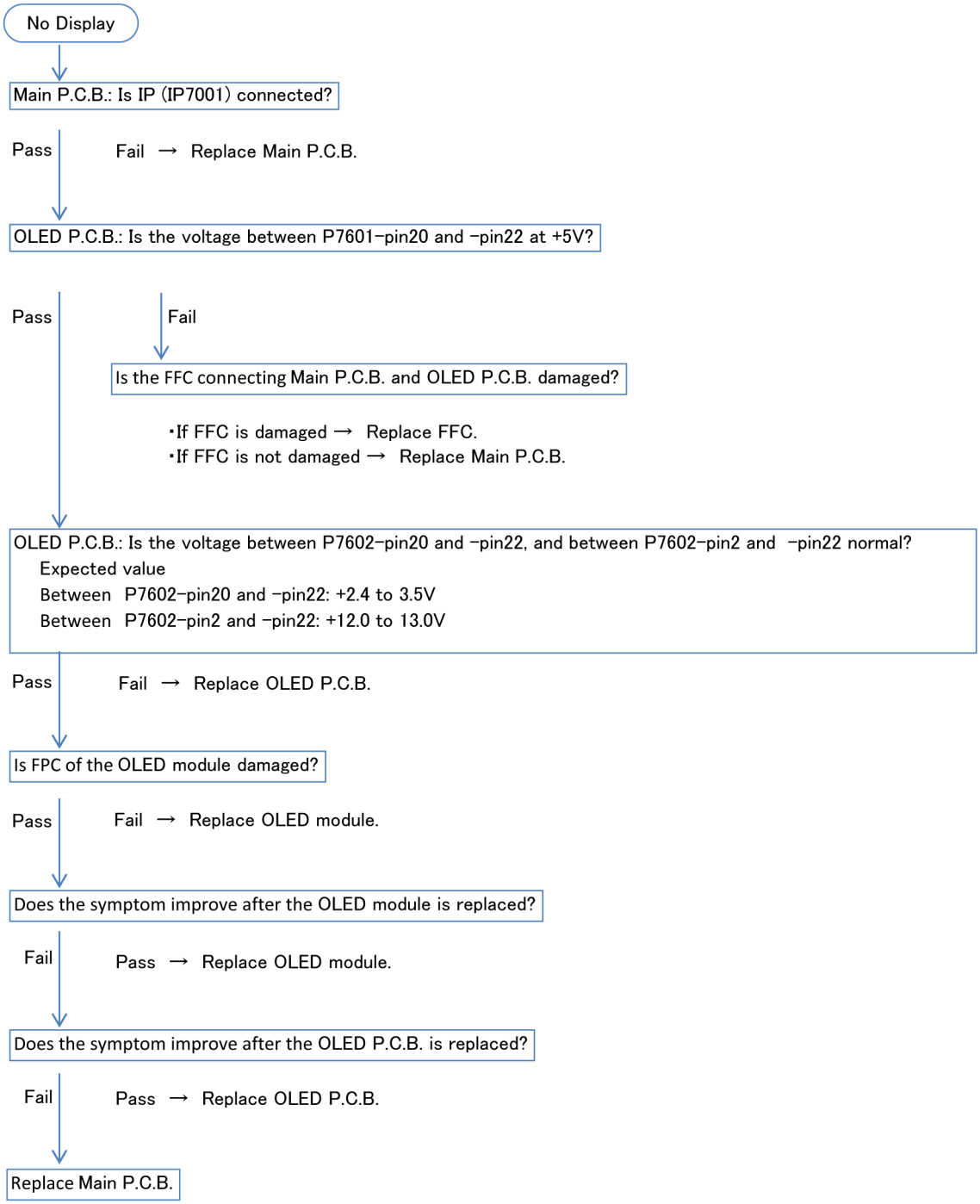
2) Check the continuity for the following PCBs. If they are shorted, replace each PCB.
・Main P.C.B.: between P7505 -26pin and -27pin
・OLED P.C.B.: between P7604-pin1 and -pin2
・Power SW P.C.B.: between P9701-pin1 and -pin2

Replace Main P.C.B.

7.3. Unit Shutdown Soon After Power-up



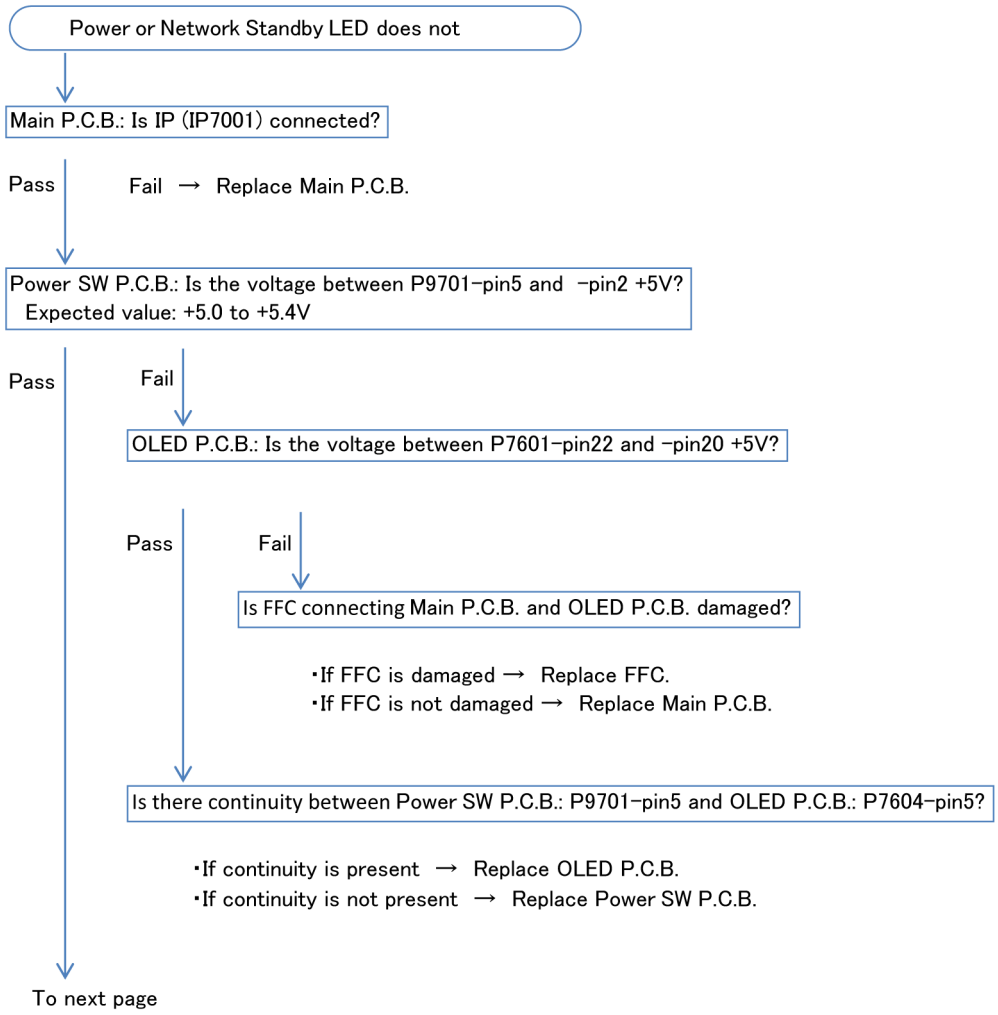
7.4. No Display



7.5. LEDs do not illuminate

Go to the corresponding troubleshooting flow as described below.
1) The Power or Network Standby LED does not illuminate.
2) The Touch Key Backlight does not illuminate.
3) The FOOT Illumination does not illuminate.
4) The Disc Illumination does not illuminate.

7.5.1. Power or Network Standby LED does not illuminate



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Power LED not illuminate?

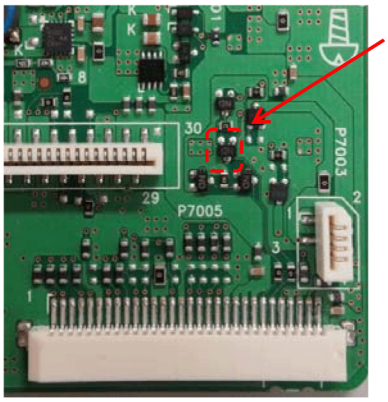
No

Yes

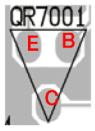
Main P.C.B.: Is QR7001 operating?

Pass

Fail → Replace Main P.C.B.



・QR7001-E terminal
LED ON: +2.7V or more
LED OFF: Less than +0.7V
・QR7001-C terminal
LED ON: +0.1V or less (at DIMMER OFF)
+2.4V or less(at DIMMER ON)
LED OFF: +2.5V or more



Power SW P.C.B: Is the voltage between P9701-pin3 and -pin2 normal?
Expected value
Lighting: +2.4V or less
OFF: +2.5V or more

Pass

Fail

OLED P.C.B.: Is the voltage between P7601-pin25 and -pin20 normal?
Expected value
Lighting: +2.4V or less
OFF: +2.5V or more

Pass

Fail

Is FFC connecting Main P.C.B. and OLED P.C.B. damaged?

・If FFC is damaged → Replace FFC.
・If FFC is not damaged → Replace Main P.C.B.

Is there continuity between Power SW P.C.B.: P9701-pin3 and OLED P.C.B.: P7604-pin3?

・If continuity is not present → Replace Power SW P.C.B.
・If continuity is present → Replace OLED P.C.B.

Replace Power SW P.C.B.

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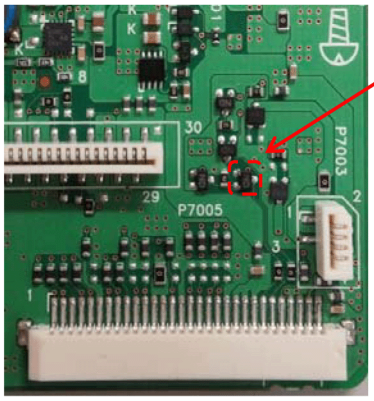
Network Standby LED does not illuminate.

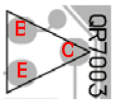
Main P.C.B.: Is QR7003 operating?

Pass

Fail → Replace Main P.C.B.



・QR7003-E terminal
LED ON: +2.7V or more
LED OFF: Less than +0.7V
・QR7003-C terminal
LED ON: +0.1V or less (at DIMMER OFF)
+2.5V or less(at DIMMER ON)
LED OFF: +3.5V or more



Power SW P.C.B.: Is the voltage between P9701-pin4 and -pin2 normal?
Expected value
Lighting: +2.5V or less
OFF: +3.5V or more

Pass

Fail

OLED P.C.B.: Is the voltage between P7601-pin24 and -pin20 normal?
Expected value
Lighting: +2.5V or less
OFF: +3.5V or more

Pass

Fail

Is FFC connecting Main P.C.B. and OLED P.C.B. damaged?

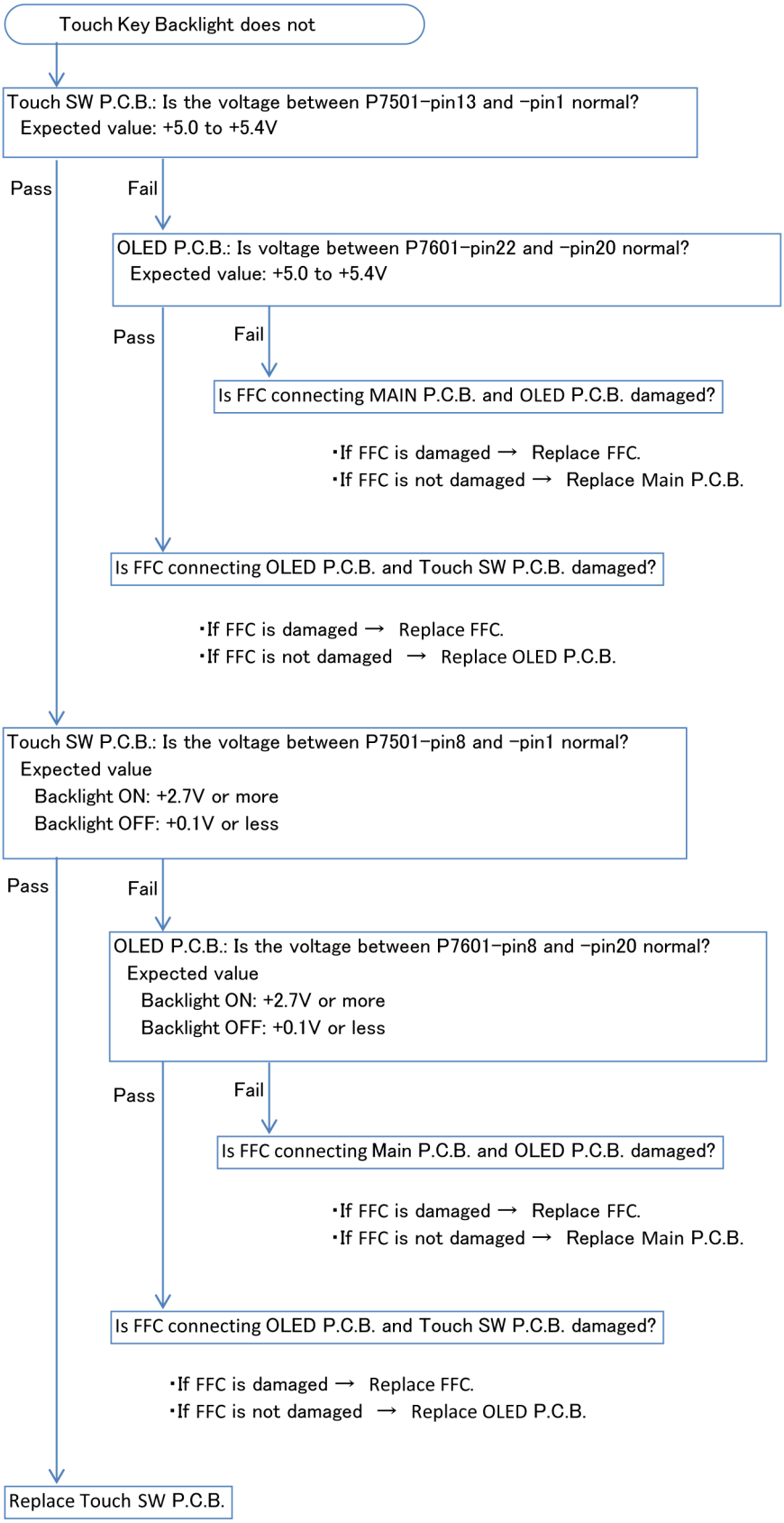
・If the FFC is damaged → Replace the FFC.
・If the FFC is not damaged → Replace the Main P.C.B.

Is there continuity between Power SW P.C.B.: P9701-pin4 and OLED P.C.B.: P7604-pin4?

・If continuity is not present → Replace Power SW P.C.B.
・If continuity is present → Replace OLED P.C.B.

Replace Power SW P.C.B.

7.5.2. Touch Key Backlight does not illuminate



7.5.3. Foot Illumination does not illuminate

Foot Illumination does not

Foot Illumination P.C.B.: Is the voltage between P7951–pin4 and –pin3 at +5V?

Pass

Fail

OLED P.C.B.: Is the voltage between P7601-pin22 and -pin20 at +5V?

Pass

Fail

Is FFC connecting Main P.C.B. and OLED P.C.B. damaged?

・If FFC is damaged → Replace FFC.
・If FFC is not damaged → Replace Main P.C.B.

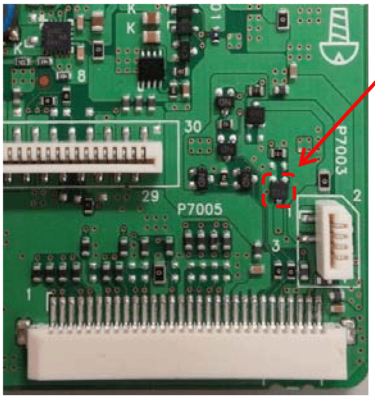
Is FFC connecting OLED P.C.B. and Foot Illumination P.C.B. damaged?

・If FFC is damaged → Replace FFC.
・If FFC is not damaged → Replace OLED P.C.B.

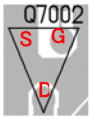
Main P.C.B.: Is QR7002 operating?

Pass

Fail → Replace Main P.C.B.



・Q7002–G terminal
Lighting: +2.7V or more
OFF: Less than +0.7V
・Q7002–D terminal
Lighting: +0.1V or less (at DIMMER OFF)
OFF: +3.0V or more



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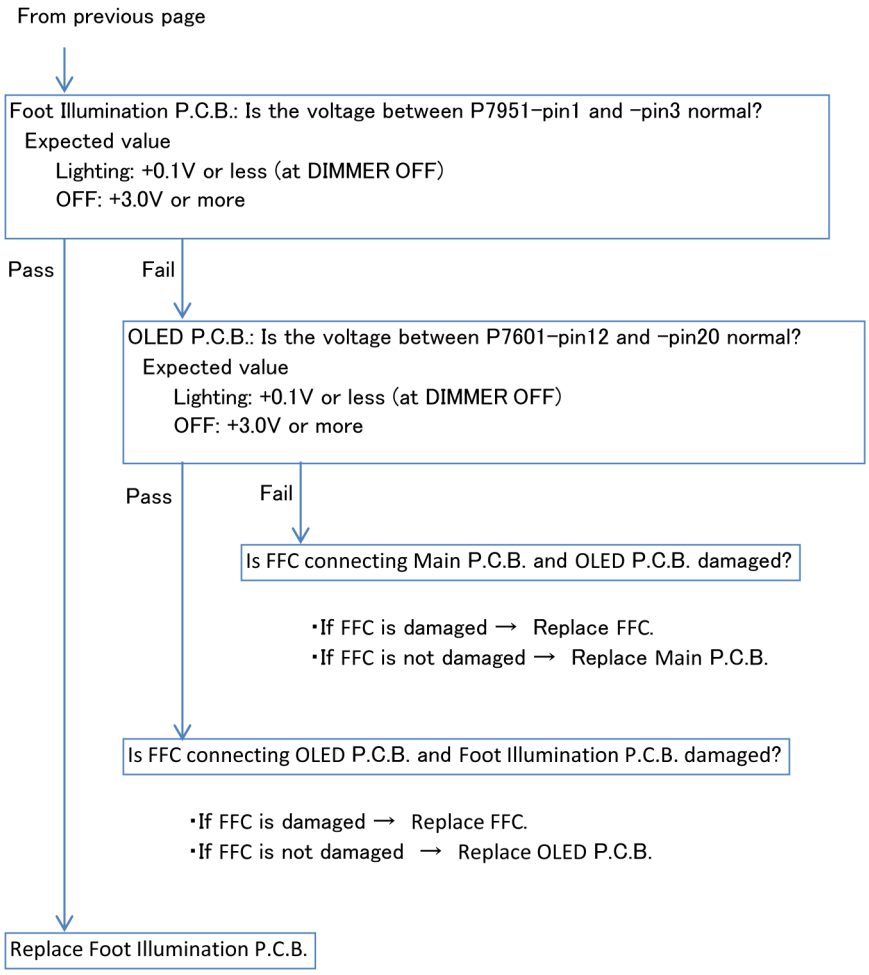

From previous page
Foot Illumination P.C.B.: Is the voltage between P7951–pin1 and –pin3 normal?
Expected value
Lighting: +0.1V or less (at DIMMER OFF)
OFF: +3.0V or more
Pass
Fail
OLED P.C.B.: Is the voltage between P7601–pin12 and –pin20 normal?
Expected value
Lighting: +0.1V or less (at DIMMER OFF)
OFF: +3.0V or more
Pass
Fail
Is FFC connecting Main P.C.B. and OLED P.C.B. damaged?
・If FFC is damaged → Replace FFC.
・If FFC is not damaged → Replace Main P.C.B.
Is FFC connecting OLED P.C.B. and Foot Illumination P.C.B. damaged?
・If FFC is damaged → Replace FFC.
・If FFC is not damaged → Replace OLED P.C.B.
Replace Foot Illumination P.C.B.

7.5.4. Disc Illumination does not illuminate

Disc Illumination does not

CD Illumination P.C.B.: Is the voltage between P7901-pin4 and -pin3 normal?
Expected value: +5.0 to +5.4V

Pass

Fail

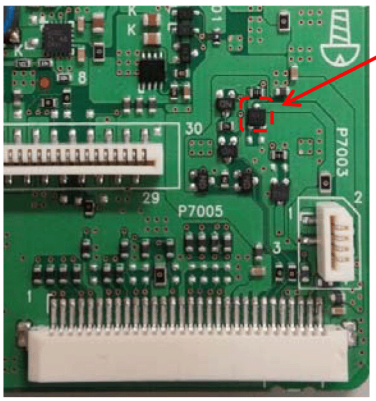
Is FFC connecting Main P.C.B. and CD Illumination P.C.B. damaged?

・If FFC is damaged → Replace FFC.
・If FFC is not damaged → Replace Main P.C.B.

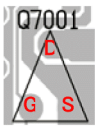
Main P.C.B.: Is QR7001 operating?

Pass

Fail → Replace Main P.C.B.



・Q7001-G terminal
Lighting: +2.7V or more
OFF: Less than +0.7V
・Q7001-D terminal
Lighting: +0.1V or less (at DIMMER OFF)
OFF: +3.0V or more



CD Illumination P.C.B.: Is the voltage between P7951-pin1 and -pin3 normal?
Expected value
Lighting: +0.1V or less (at DIMMER OFF)
OFF: +3.0V or more

Pass

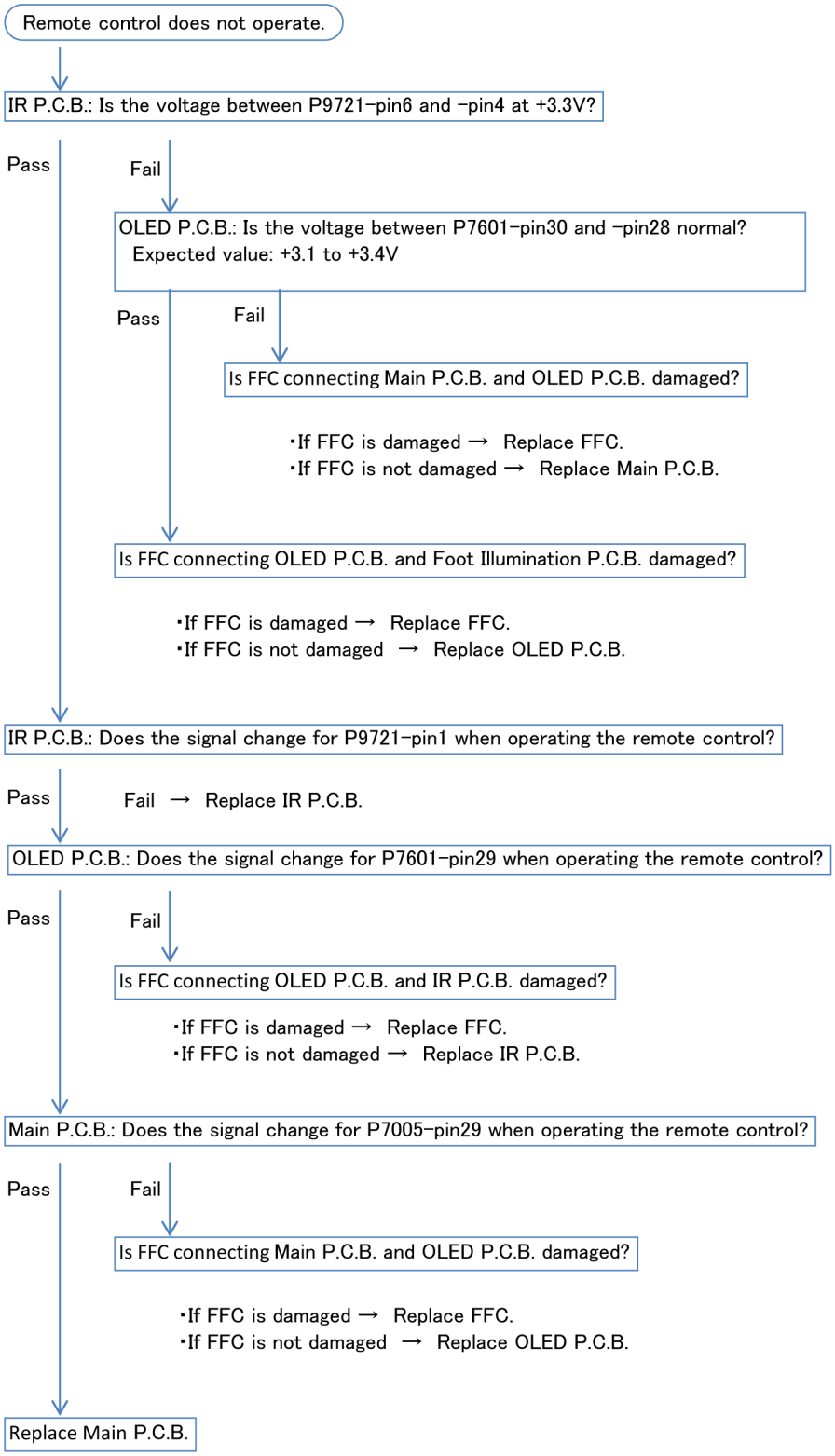
Fail

Is FFC connecting Main P.C.B. and CD Illumination P.C.B. damaged?

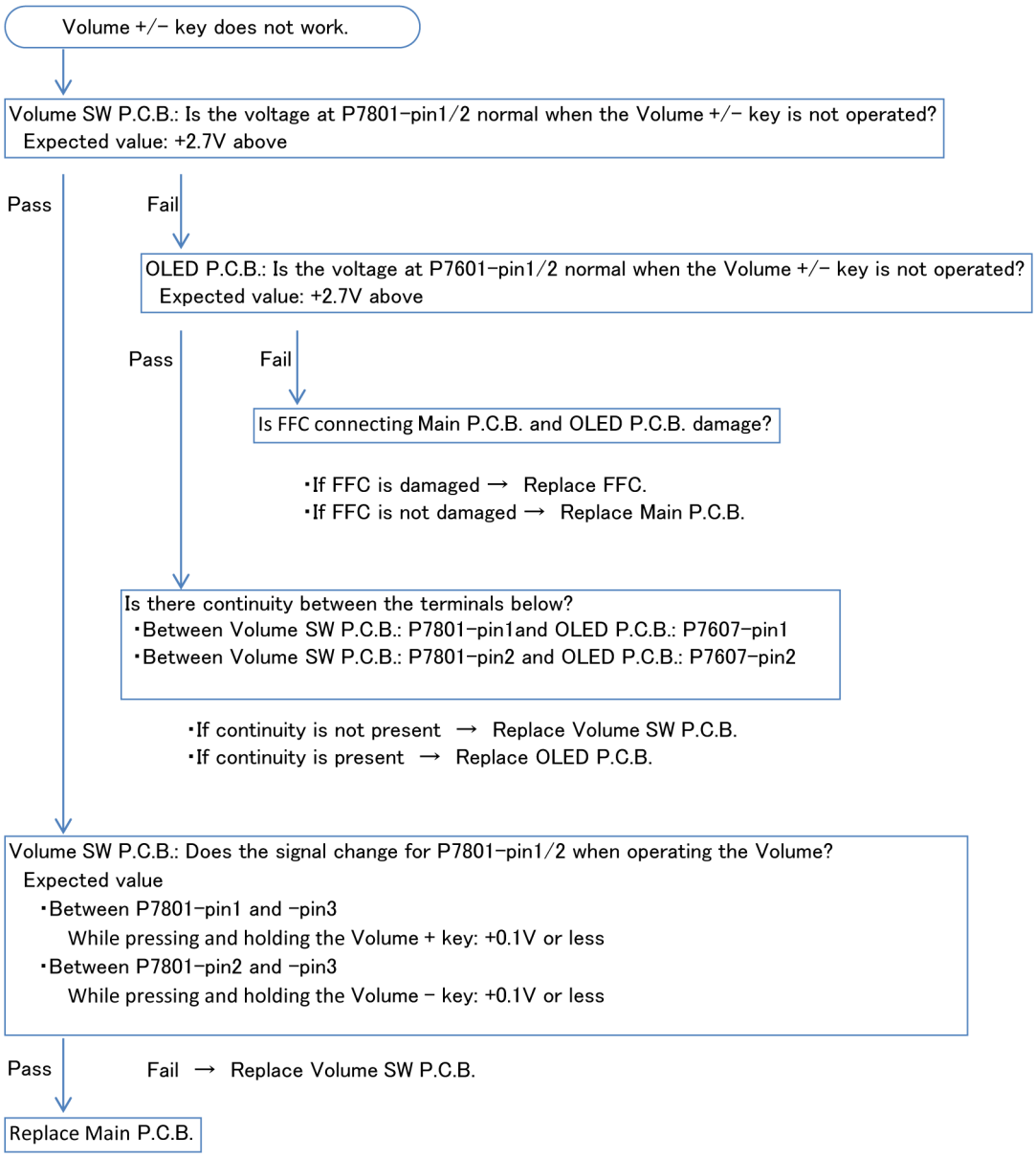
・If FFC is damaged → Replace FFC.
・If FFC is not damaged → Replace Main P.C.B.

Replace CD Illumination P.C.B.

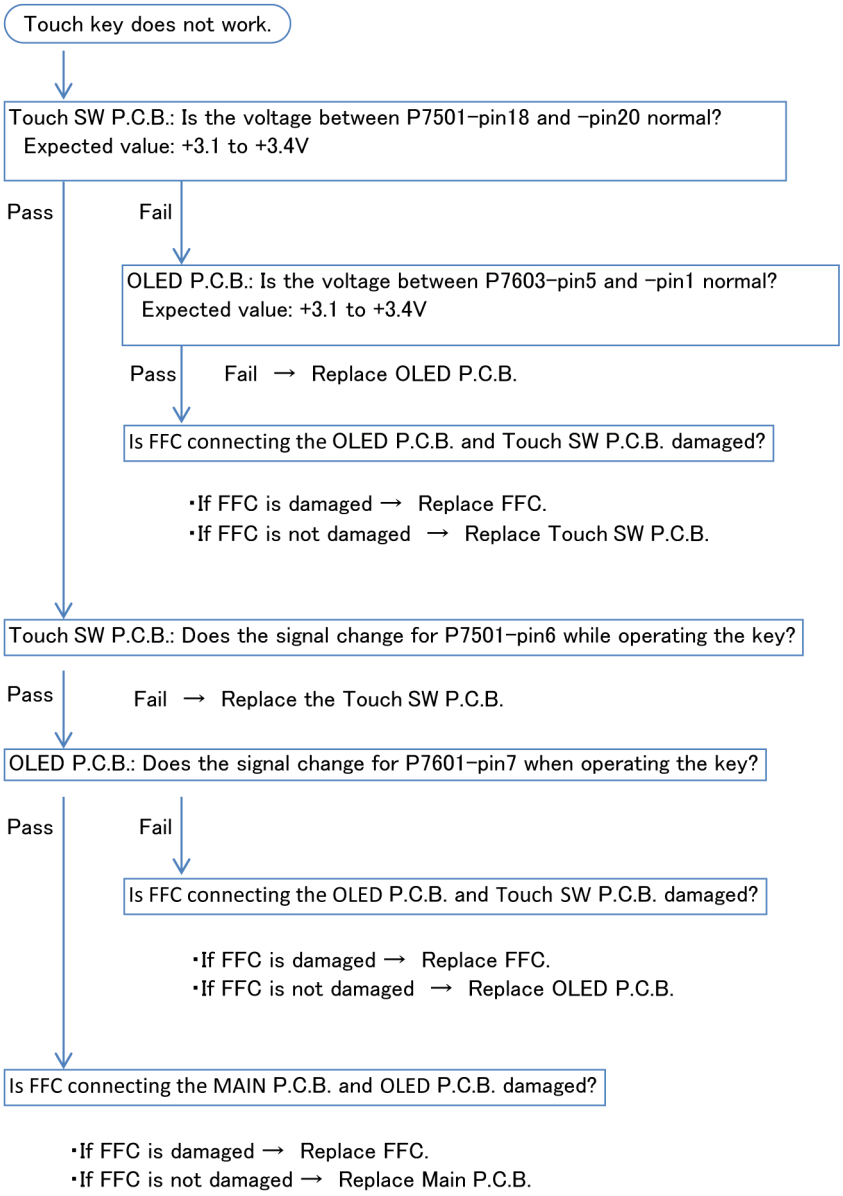
7.6. Remote control does not operate



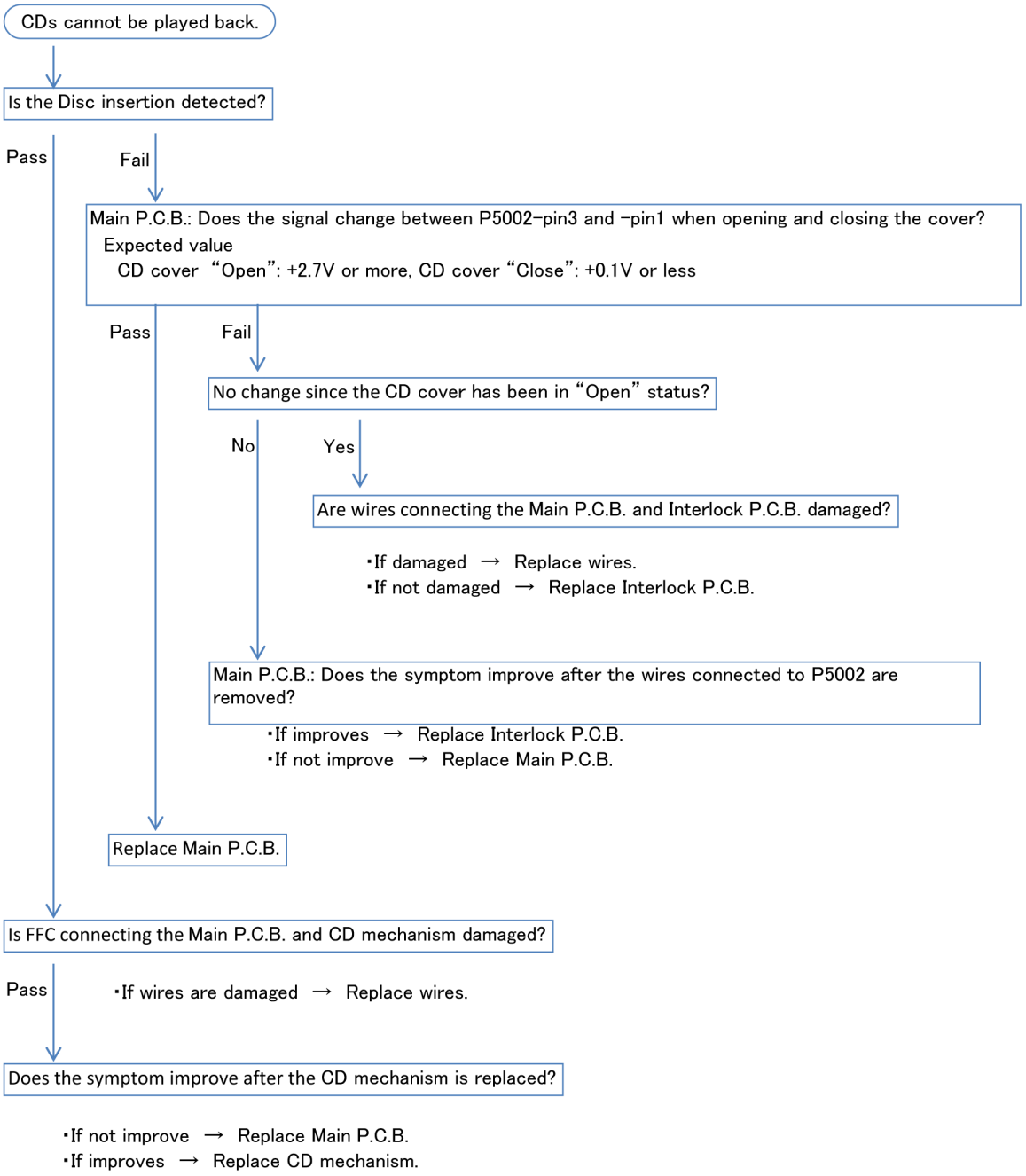
7.7. Volume + / - key does not work



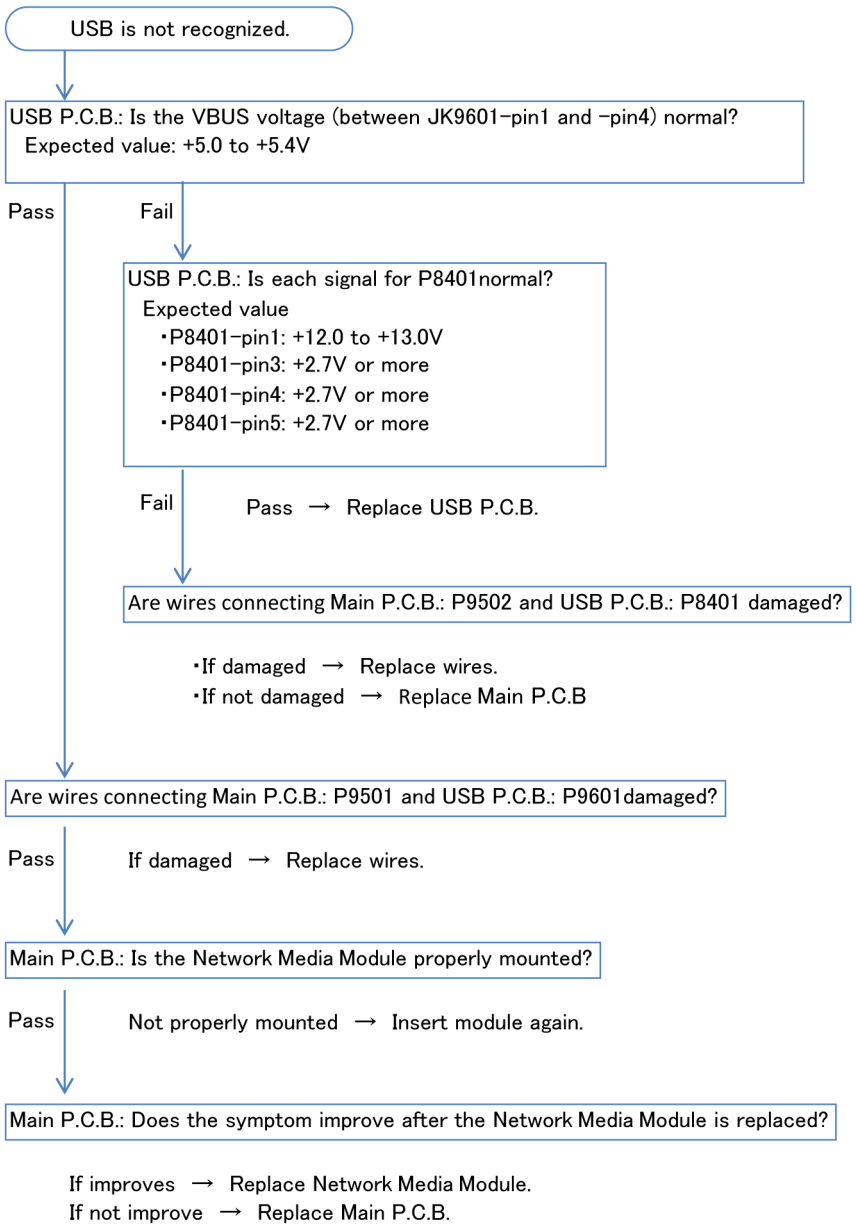
7.8. Touch key does not work



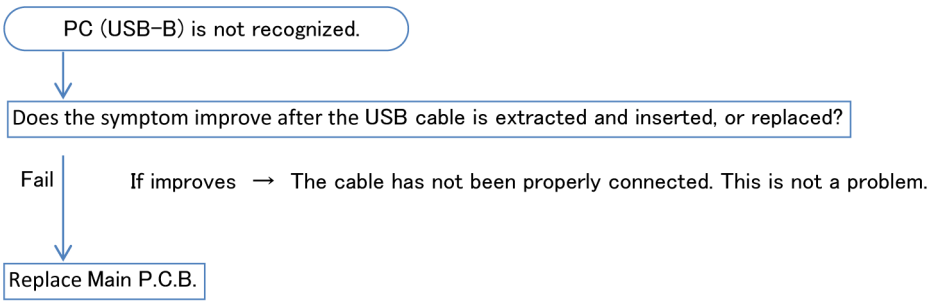
7.9. CDs cannot be played back



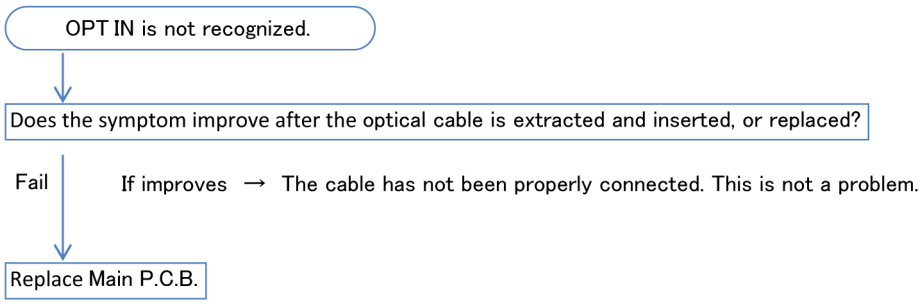
7.10. USB is not recognized



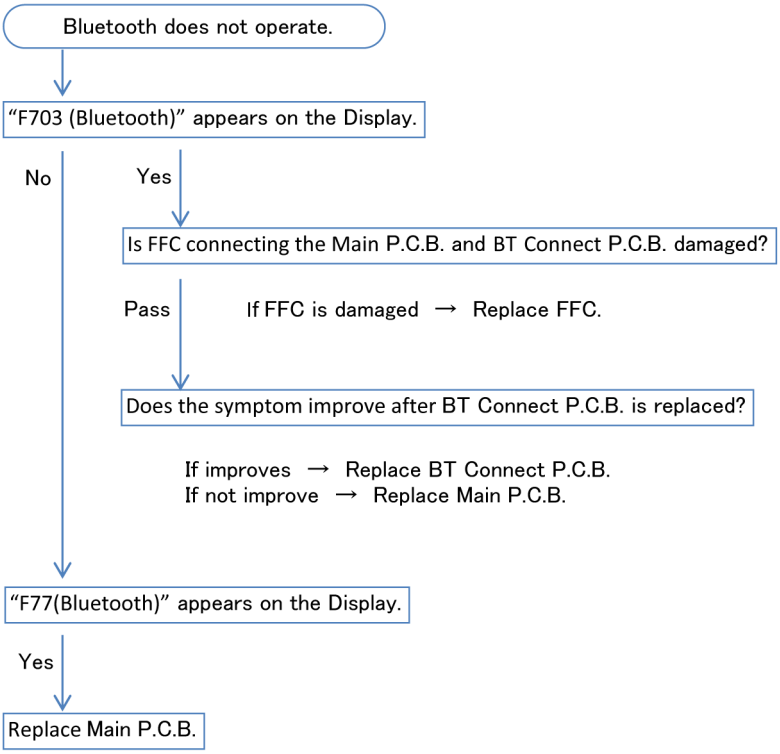
7.11. PC (USB-B) does not operate



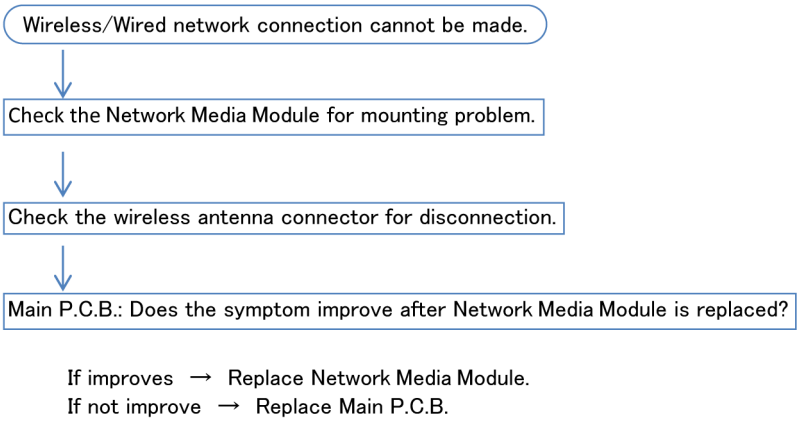
7.12. OPT IN does not operate



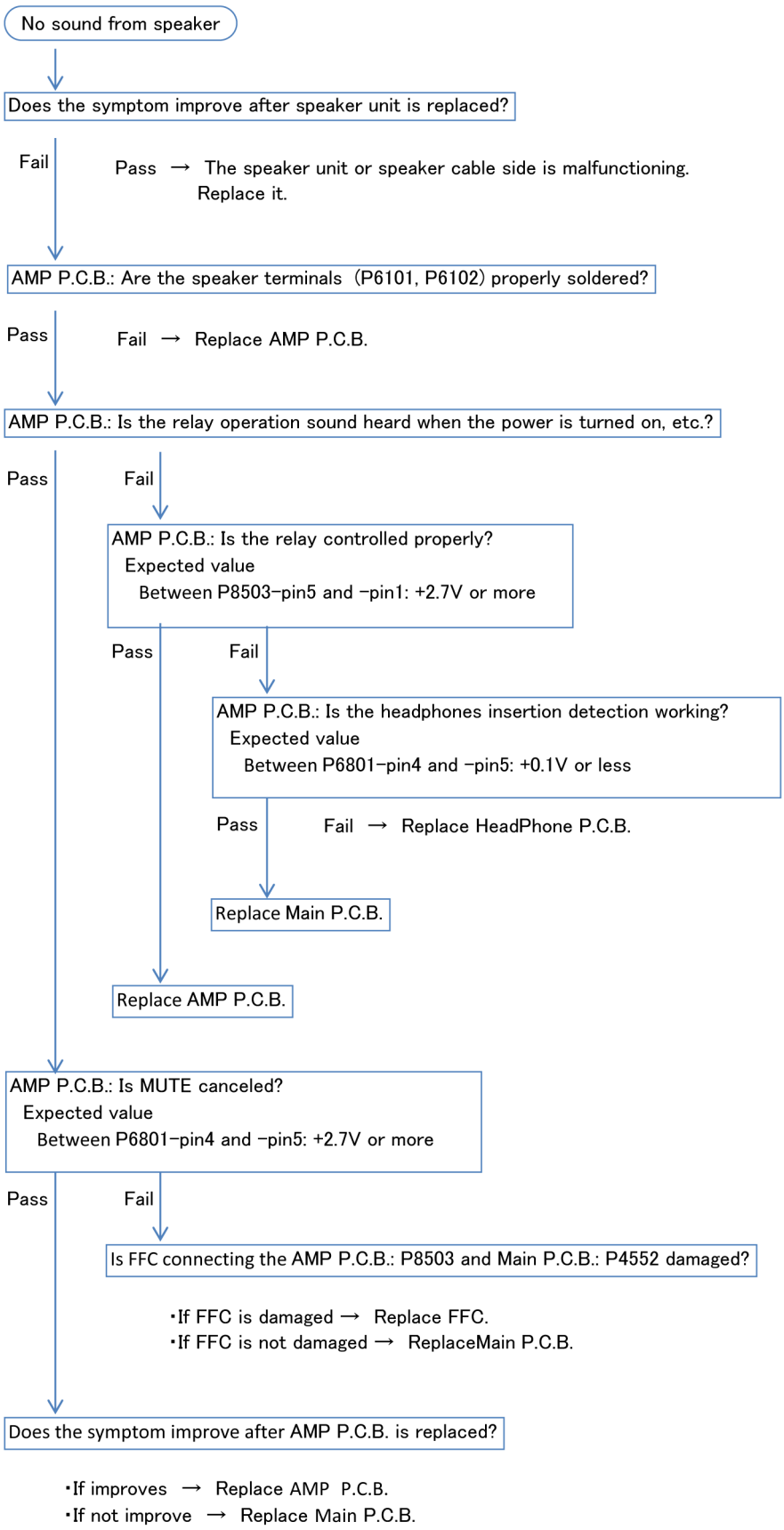
7.13. Bluetooth does not operate



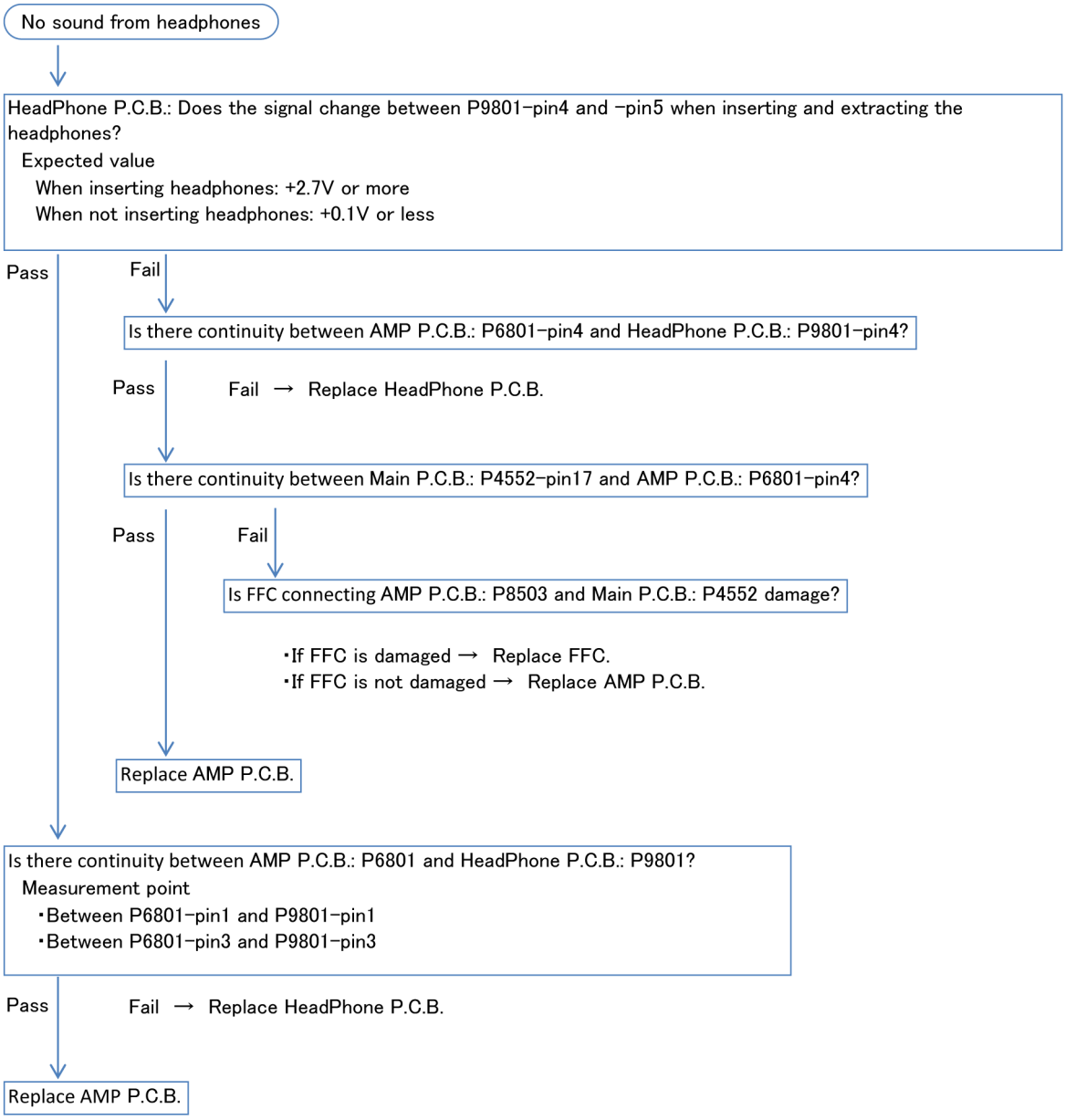
7.14. Wireless/Wired network connection cannot be made



7.15. No sound from speaker



7.16. No sound from headphones



Main P.C.B.
P4551

30	PW_XSW_12R8V
29	PW_XSW_12R8V
28	PW_XSW_12R8V
27	PW_XSW_12R8V
26	DGND
25	DGND
24	SMPS_REGION
23	SMPS_BURST_SW
22	PW_PCONT_H
21	PW_TDET
20	PW_SYNC
19	DGND
18	DGND
17	PW_SW_D5ROV
16	PW_SW_D5ROV
15	PW_SW_D5ROV
14	PW_SW_D3R3V
13	PW_SW_D3R3V
12	PW_SW_D3R3V
11	DGND
10	DGND
9	PW_BAT_5ROV
8	PW_BAT_5ROV
7	DGND
6	DGND
5	PON_ANA_H
4	DGND
3	SMPS_FAN_P
2	SMPS_FAN_N
1	DGND

⇔

AMP P.C.B.
P8502

PW_XSW_12R8V	1
PW_XSW_12R8V	2
PW_XSW_12R8V	3
PW_XSW_12R8V	4
DGND	5
DGND	6
SMPS_REGION	7
SMPS_BURST_SW	8
PW_PCONT_H	9
PW_TDET	10
PW_SYNC	11
DGND	12
DGND	13
PW_SW_D5ROV	14
PW_SW_D5ROV	15
PW_SW_D5ROV	16
PW_SW_D3R3V	17
PW_SW_D3R3V	18
PW_SW_D3R3V	19
DGND	20
DGND	21
PW_BAT_5ROV	22
PW_BAT_5ROV	23
DGND	24
DGND	25
PON_ANA_H	26
DGND	27
SMPS_FAN_P	28
SMPS_FAN_N	29
DGND	30

⇔

Main P.C.B.
P4552

40	DGND
39	PON_GDV_H
38	PON_PLL_H
37	PDET
36	SP_ON_H
35	DGND
34	DAMP_XRST
33	DAMP_MUTE
32	DGND
31	DAMP2_SDA
30	DAMP2_SCL
29	DGND
28	DAMP1_SDA
27	DAMP1_SCL
26	DGND
25	SDATA
24	LRCK
23	BCLK
22	DGND
21	ADC_MCLK
20	DGND
19	ADC_SDATA
18	DGND
17	DAMP_HP_DET
16	DAMP_HP_MUTE
15	DGND
14	DAMP_SD
13	DAMP_OVR_TMP
12	DGND
11	DAMP_TMP2
10	DAMP_TMP1
9	DAMP_DC_DET
8	ADC_XRST
7	DAMP_ID
6	DGND
5	DGND
4	BUZZER_P
3	BUZZER_P
2	BUZZER_N
1	BUZZER_N

AMP P.C.B.
P8503

DGND	1
PON_GDV_H	2
PON_PLL_H	3
PDET	4
SP_ON_H	5
DGND	6
DAMP_XRST	7
DAMP_MUTE	8
DGND	9
DAMP2_SDA	10
DAMP2_SCL	11
DGND	12
DAMP1_SDA	13
DAMP1_SCL	14
DGND	15
SDATA	16
LRCK	17
BCLK	18
DGND	19
ADC_MCLK	20
DGND	21
ADC_SDATA	22
DGND	23
DAMP_HP_DET	24
DAMP_HP_MUTE	25
DGND	26
DAMP_SD	27
DAMP_OVR_TMP	28
DGND	29
DAMP_TMP2	30
DAMP_TMP1	31
DAMP_DC_DET	32
ADC_XRST	33
DAMP_ID	34
DGND	35
DGND	36
BUZZER_P	37
BUZZER_P	38
BUZZER_N	39
BUZZER_N	40

Main P.C.B.
P7005

VOL_-	1
VOL_+	2
GND	3
I2CSCL	4
I2CSDA	5
GND	6
INT	7
LED_FUNCTION1	8
LED_FUNCTION2	9
D/C#	10
OLED_PCONT1(VDD)	11
FOOT_ILLUMI	12
FOOT_ILLUMI	13
CS#	14
GND	15
D1	16
D0	17
RST#	18
OLEC_PCONT2(VCC)	19
GND	20
SW_5R1V	21
SW_5R1V	22
SW_5R1V	23
NW_STNBY_LED	24
POWER-ON_LED	25
POWER_SW	26
GND	27
GND	28
IR	29
NSW3R3V	30

⇔

OLED P.C.B.
P7601

VOL_-	1
VOL_+	2
GND	3
I2CSCL	4
I2CSDA	5
GND	6
INT1	7
LED_FUNCTION1	8
LED_FUNCTION2	9
A0	10
DISP_ON_H	11
FOOT_ILLUMI	12
FOOT_ILLUMI	13
CS	14
GND	15
D1(SPI_WDATA)	16
D0(SPI_CLK)	17
RST	18
LCD_DIM	19
GND	20
P_5R1V	21
P_5R1V	22
P_5R1V	23
NW_STDBY_LED	24
POWER-ON_LED	25
POWER_SW	26
GND	27
GND	28
IR	29
NSW3R3V	30

SMPS P.C.B.
P1051

12R7V	1
12R7V	2
GND	3
GND	4
REGION	5
Burst_SW	6
SP_P-Cont	7
TH_Det	8
P_GND	9
P_GND	10
P_GND	11
23.5V	12
23.5V	13
23.5V	14
AC-Sync_Det	15

⇔

AMP P.C.B.
P8501

AC_SYNC	15
PW_24ROV	14
PW_24ROV	13
PW_24ROV	12
PGND	11
PGND	10
PGND	9
TH_DET	8
SP_PCONT	7
BURST_SW	6
REGION	5
GND	4
GND	3
PW_12R8V	2
PW_12R8V	1

OLED P.C.B. P7603 ⇔ Touch SW P.C.B. P7501

GND	20
I2CSCL	19
GND	18
I2CSDA	17
GND	16
INT1	15
GND	14
LED_FUNCTI0N1	13
LED_FUNCTI0N2	12
GND	11
X_SW_5R1V	10
X_SW_5R1V	9
X_SW_5R1V	8
GND	7
GND	6
LCD3R3V	5
LCD3R3V	4
LCD3R3V	3
GND	2
GND	1

GND	1
I2CSCL	2
GND	3
I2CSDA	4
GND	5
INT1	6
GND	7
LED_FUNCTI0N1	8
LED_FUNCTI0N2	9
GND	10
X_SW_5R1V	11
X_SW_5R1V	12
X_SW_5R1V	13
GND	14
GND	15
LCD3R3V	16
LCD3R3V	17
LCD3R3V	18
GND	19
GND	20

Main P.C.B. P7301 ⇔ BT Connect P.C.B. P2101

UART_TX	1
UART_RX	2
BT_Host_Wake	3
BT_LD0_0N_H	4
VDD(5V)	5
BT_UART_RTS	6
GND	7
GND	8

BT_TX	8
BT_RX	7
BT_Host_Wake	6
BT_LD0_0N_H	5
BT_5V	4
BT_UART_RTS	3
GND	2
GND	1

Main P.C.B. P7003 ⇔ CD Illumination P.C.B. P7901

5V	1
5V	2
CD_ILLUMI	3
CD_ILLUMI	4

CD_ILLUMI	1
CD_ILLUMI	2
GND	3
5V	4

AMP P.C.B. P6801 ⇔ HeadPhone P.C.B. P9801

5	D_GND
4	HP_DETECT
3	HP_R_CH
2	HP_GND
1	HP_L_CH

1	HP_Lch
2	AGND
3	HP_Rch
4	HP_Det
5	DGND

Main P.C.B. P9502 ⇔ USB P.C.B. P8401

PW_SW_12R8V	1
PW_SW_12R8V	2
P0N_DIGI_H	3
USB_A_PC0NT	4
USB_A_0VC	5
DGND	6
DGND	7
DGND	8

1	PW_SW_12R8V
2	PW_SW_12R8V
3	P0N_DIGI_H
4	USB_A_PC0NT
5	USB_A_0VC
6	DGND
7	DGND
8	DGND

OLED P.C.B. P7608 ⇔ Foot Illumination P.C.B. P7951

F00T_ILLUMI	6
F00T_ILLUMI	5
GND	4
5V	3
5V	2
5V	1

F00T_ILLUMI	1
F00T_ILLUMI	2
GND	3
5V	4
5V	5
5V	6

OLED P.C.B. P7607 ⇔ Volume SW P.C.B. P7607

V0L_+	1
V0L_-	2
GND	3

GND	3
V0L_-	2
V0L_+	1

OLED P.C.B. P7605 ⇔ IR P.C.B. P9721

IR	6
IR	5
GND	4
GND	3
X_SW3R3V	2
X_SW3R3V	1

1	IR
2	IR
3	GND
4	GND
5	X_SW3R3V
6	X_SW3R3V

OLED P.C.B. P7604 ⇔ Power SW P.C.B. P9701

X_SW_5R1V	5
NW_STDBY_LED	4
P0WER-0N_LED	3
GND	2
P0WER_SW	1

1	P0WER_SW
2	GND
3	P0WER-0N_LED
4	NW_STDBY_LED
5	5V

Main P.C.B. P9501 ⇔ USB P.C.B. P9601

DGND	4
USB D-	3
USB D+	2
DGND	1

1	GND
2	+D
3	-D
4	GND

Functions and related PCBs and modules

No.	Function	Related block
1	CD	Main/CD unit
2	USB-A	Main/USB/Network Media Module
3	Bluetooth	Bluetooth/MAIN
4	LAN/AirPlay/DLNA	Main/Network Media Module
5	PC (USB-DAC)	Main
6	OPT IN	Main
7	Display (OLED)	Main/OLED
8	Touch SW	Main/OLED/Touch sensor
9	IR	Main/OLED/IR
10	Speaker Out	Main/AMP
11	HeadPhone Out	Main/AMP/HeadPhone

8 Disassembly and Assembly Instructions

- **This section describes the disassembly and/or assembly procedures for all major printed circuit boards & main components for the unit. (You may refer to the section of "Main components and P.C.B. Locations" as described in this service manual)**
- **Before carrying out the disassembly process, please ensure all the safety precautions & procedures are followed.**
- **During the disassembly and/or assembly process, please handle with care as there may be chassis components with sharp edges.**
- **Avoid touching heatsinks due to its high temperature after prolong use.**
- **Be sure to use proper service tools, equipments or jigs during repair.**
- **Select items from the following indexes when disassembly or replacement are required.**
- Disassembly of Rear Panel
- Disassembly of Side AL Panel L & R
- Disassembly of Bottom Chassis
- Disassembly of Front Panel Block
- Disassembly of Power SW P.C.B.
- Disassembly of Headphone P.C.B.
- Disassembly of Volume SW P.C.B.
- Disassembly of USB P.C.B.
- Disassembly of Foot Illumination P.C.B.
- Disassembly of IR P.C.B.
- Disassembly of OLED P.C.B.
- Disassembly of Touch SW P.C.B.
- Disassembly of SMPS P.C.B.
- Disassembly of AMP P.C.B.
- Disassembly of BT Connect P.C.B.
- Disassembly of CD Mechanism Block
- Disassembly of CD P.C.B.
- Disassembly of CD Illumination P.C.B.
- Disassembly of Shaft Unit A
- Disassembly of Wifi Module
- Disassembly of Main P.C.B.
- Replacement of Wifi Antenna L & R
- Assembly of Wifi Antenna L & R

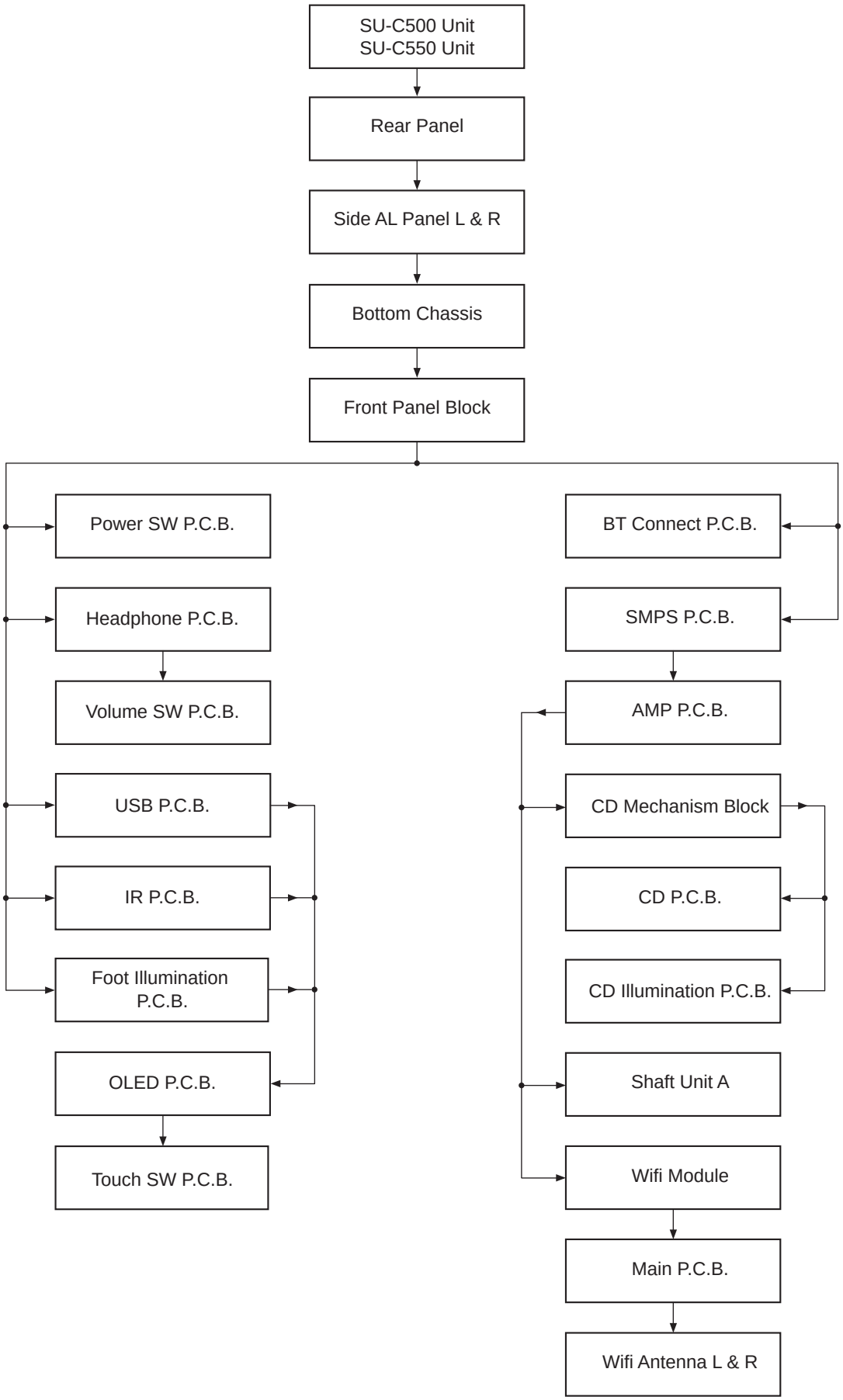
8.1. Type of Screws

CAUTION NOTE:
Please use original screw and at correct locations.

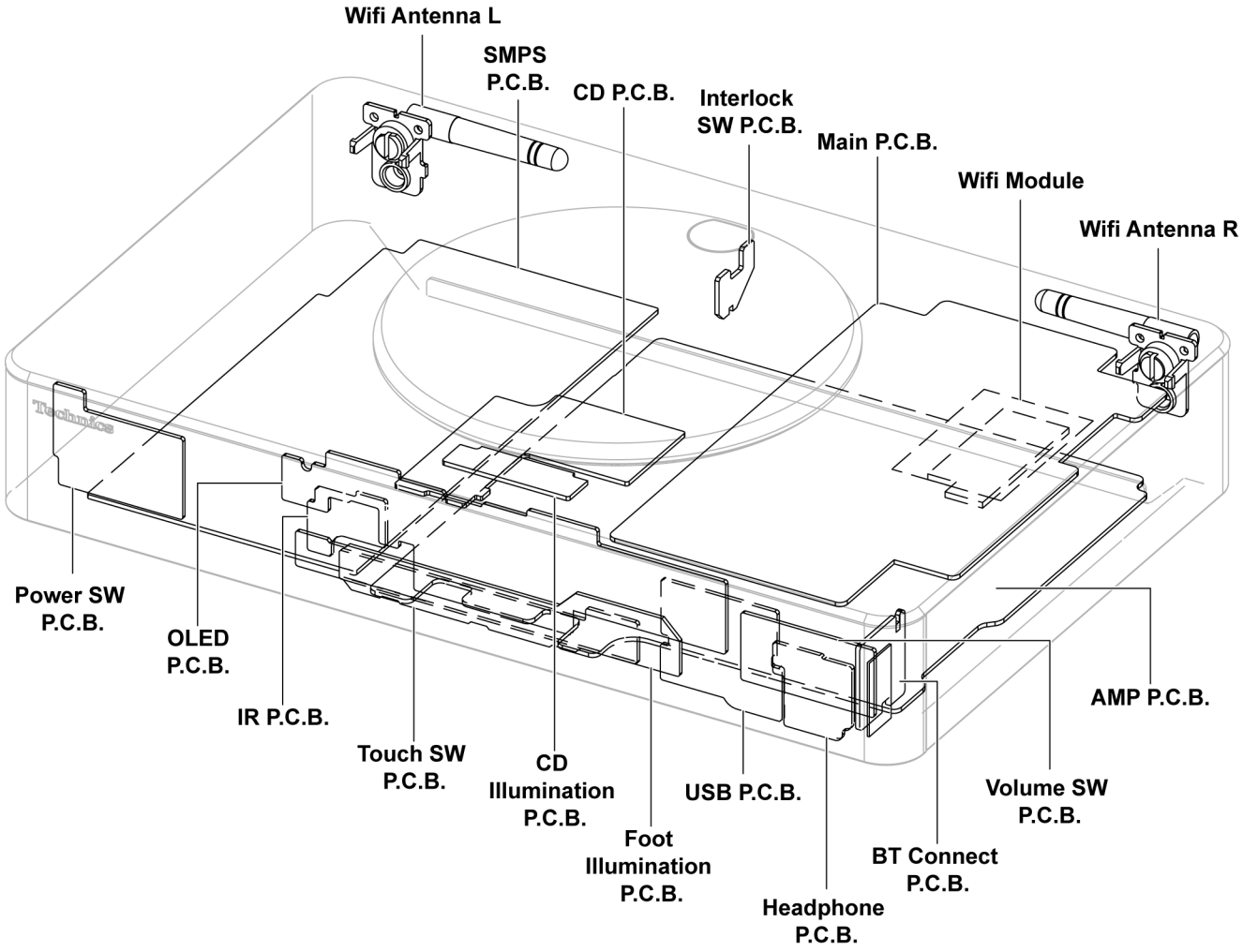
Below shown is part no. of different screw types used:

- a :XYN3+C8FJK
- b :RHD30119-K
- c :RHD26046
- d :XTB3+14JFJK
- e :XTN2+6GFJ
- f :VHD1224-1A
- g :XTW26+8SFJK
- h :RHDX261002
- i :XYN3+F5FN

8.2. Disassembly Flow Chart



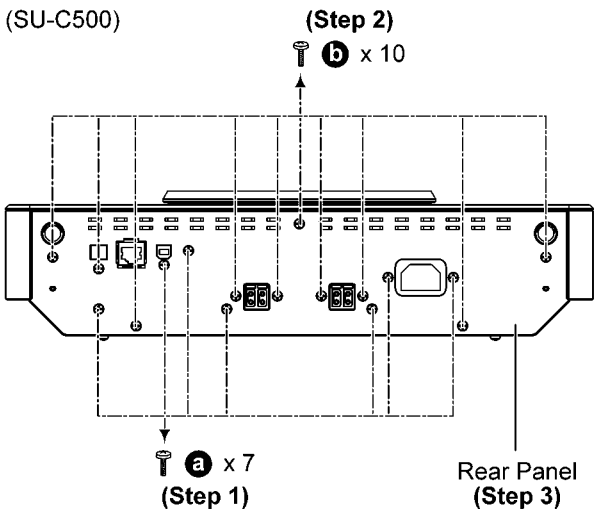
8.3. Main Components and P.C.B. Locations



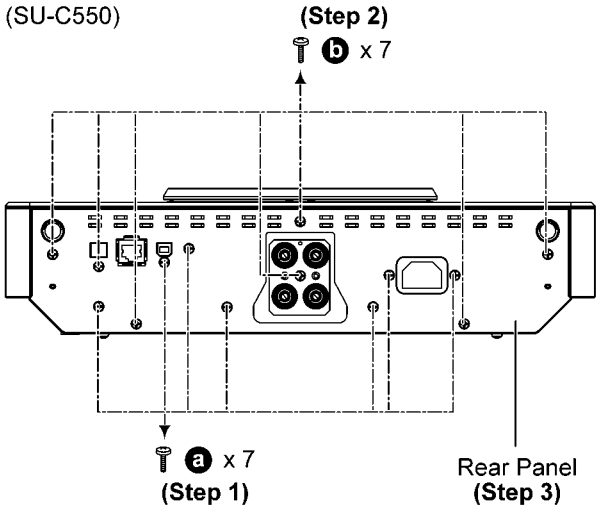
8.4. Disassembly of Rear Panel

Step 1 Remove 7 screws.
Step 2 Remove 10 screws (For SU-C500).
Step 2 Remove 7 screws (For SU-C550).
Step 3 Remove Rear Panel.

(SU-C500)



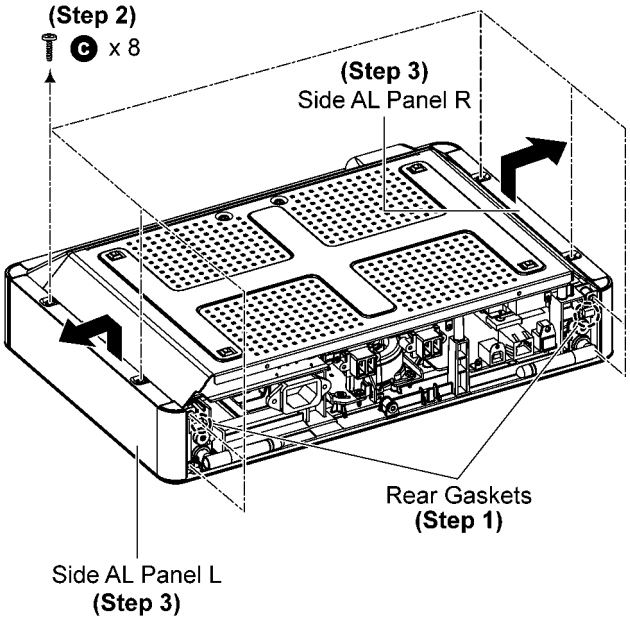
(SU-C550)



8.5. Disassembly of Side AL Panel L & R

- **Refer to "Disassembly of Rear Panel".**

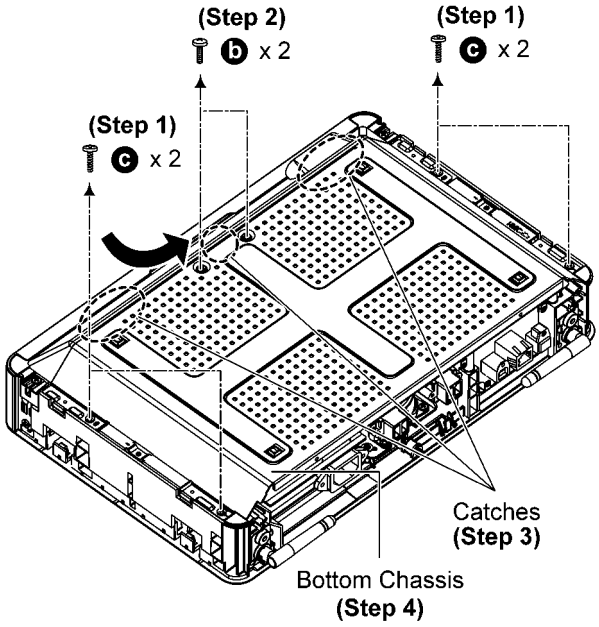
Step 1 Remove 2 Rear Gaskets.
Step 2 Remove 8 screws.
Step 3 Remove Side AL Panel L & R.



8.6. Disassembly of Bottom Chassis

- **Refer to "Disassembly of Rear Panel".**
- **Refer to "Disassembly of Side AL Panel L & R".**

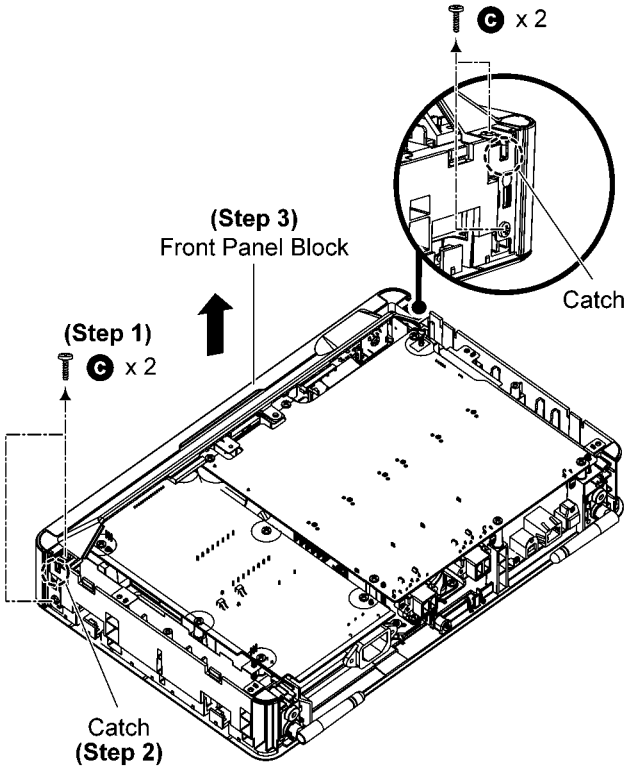
Step 1 Remove 4 screws.
Step 2 Remove 2 screws.
Step 3 Release catches.
Step 4 Remove Bottom Chassis.



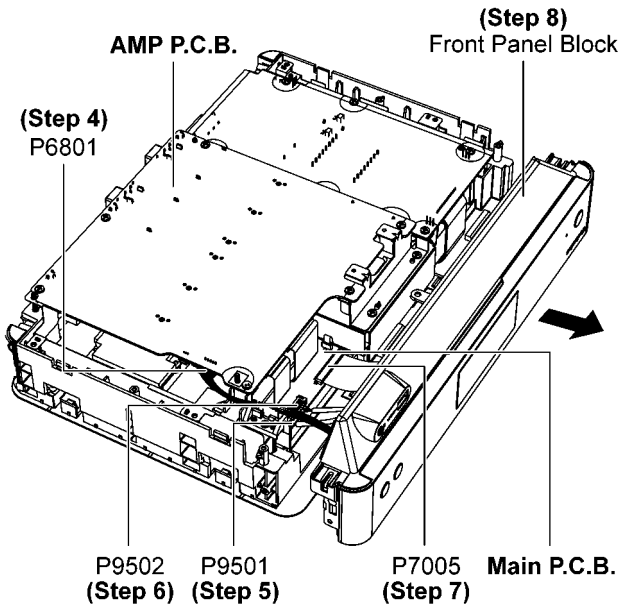
8.7. Disassembly of Front Panel Block

- **Refer to “Disassembly of Rear Panel”.**
- **Refer to “Disassembly of Side AL Panel L & R”.**
- **Refer to “Disassembly of Bottom Chassis”.**

Step 1 Remove 4 screws.
Step 2 Release catches.
Step 3 Lift up Front Panel Block.



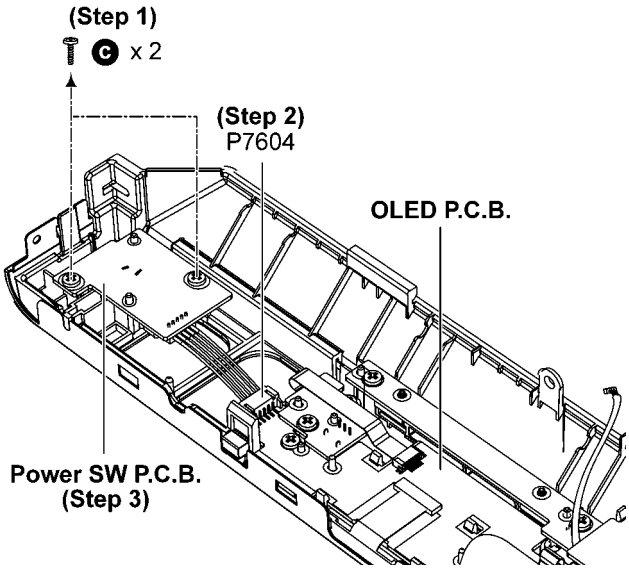
Step 4 Detach 5P Cable at the connector (P6801) on AMP P.C.B..
Step 5 Detach 4P Cable at the connector (P9501) on Main P.C.B..
Step 6 Detach 8P Cable at the connector (P9502) on Main P.C.B..
Step 7 Detach 30P FFC at the connector (P7005) on Main P.C.B..
Step 8 Remove Front Panel Block.



8.8. Disassembly of Power SW P.C.B.

- **Refer to “Disassembly of Rear Panel”.**
- **Refer to “Disassembly of Side AL Panel L & R”.**
- **Refer to “Disassembly of Bottom Chassis”.**
- **Refer to “Disassembly of Front Panel Block”.**

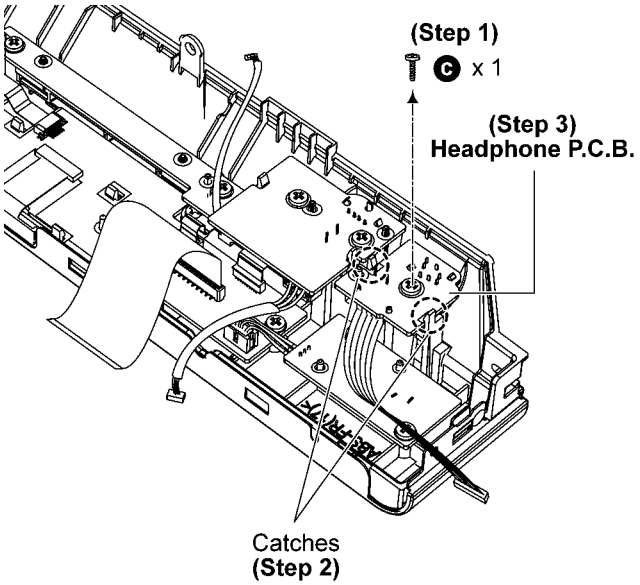
Step 1 Remove 2 screws.
Step 2 Detach 5P Cable at the connector (P7604) on OLED P.C.B..
Step 3 Remove Power SW P.C.B..



8.9. Disassembly of Headphone P.C.B.

- **Refer to “Disassembly of Rear Panel”.**
- **Refer to “Disassembly of Side AL Panel L & R”.**
- **Refer to “Disassembly of Bottom Chassis”.**
- **Refer to “Disassembly of Front Panel Block”.**

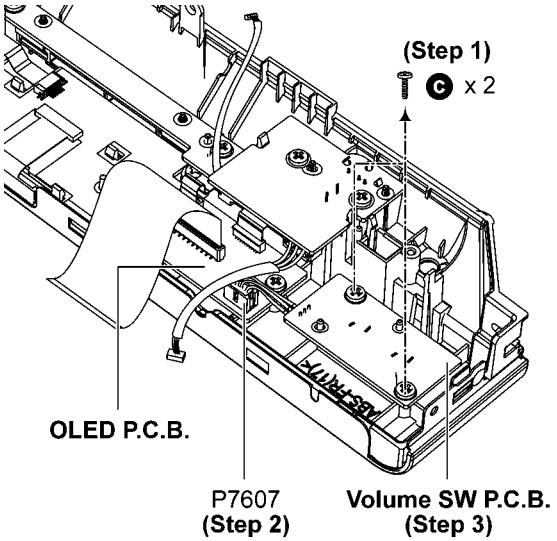
Step 1 Remove screw.
Step 2 Release catches.
Step 3 Remove Headphone P.C.B..



8.10. Disassembly of Volume SW P.C.B.

- **Refer to “Disassembly of Rear Panel”.**
- **Refer to “Disassembly of Side AL Panel L & R”.**
- **Refer to “Disassembly of Bottom Chassis”.**
- **Refer to “Disassembly of Front Panel Block”.**
- **Refer to “Disassembly of Headphone P.C.B.”.**

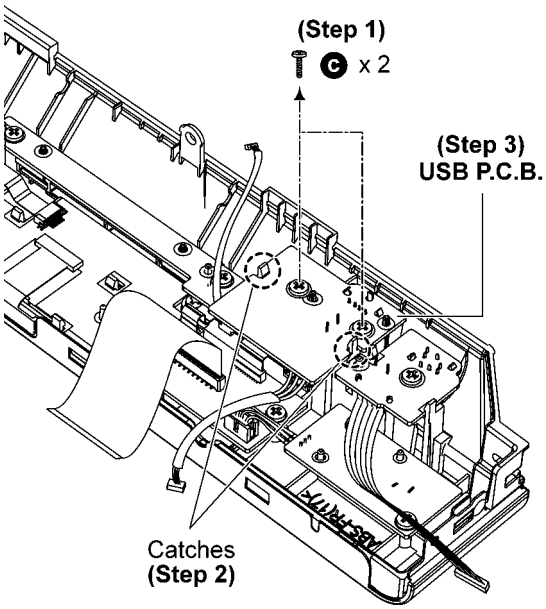
Step 1 Remove 2 screws.
Step 2 Detach 3P Cable at the connector (P7607) on OLED P.C.B..
Step 3 Remove Volume SW P.C.B..



8.11. Disassembly of USB P.C.B.

- **Refer to “Disassembly of Rear Panel”.**
- **Refer to “Disassembly of Side AL Panel L & R”.**
- **Refer to “Disassembly of Bottom Chassis”.**
- **Refer to “Disassembly of Front Panel Block”.**

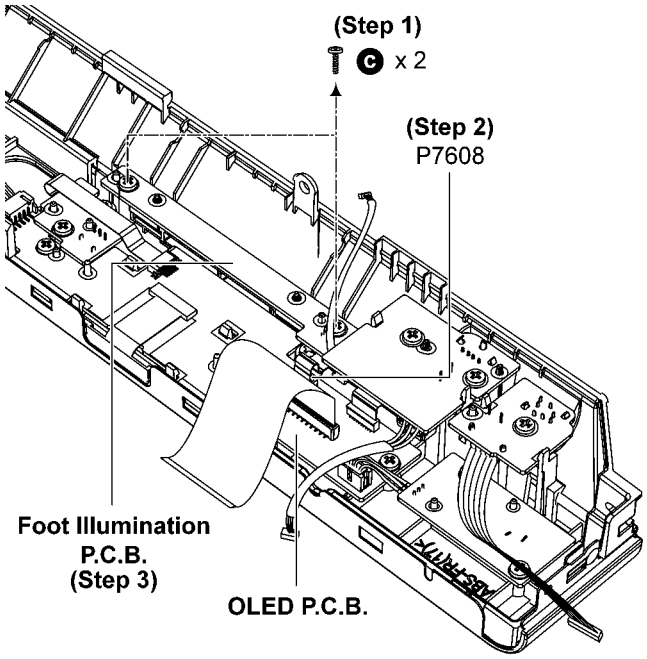
Step 1 Remove 2 screws.
Step 2 Release catches.
Step 3 Remove USB P.C.B..



8.12. Disassembly of Foot Illumination P.C.B.

- **Refer to “Disassembly of Rear Panel”.**
- **Refer to “Disassembly of Side AL Panel L & R”.**
- **Refer to “Disassembly of Bottom Chassis”.**
- **Refer to “Disassembly of Front Panel Block”.**

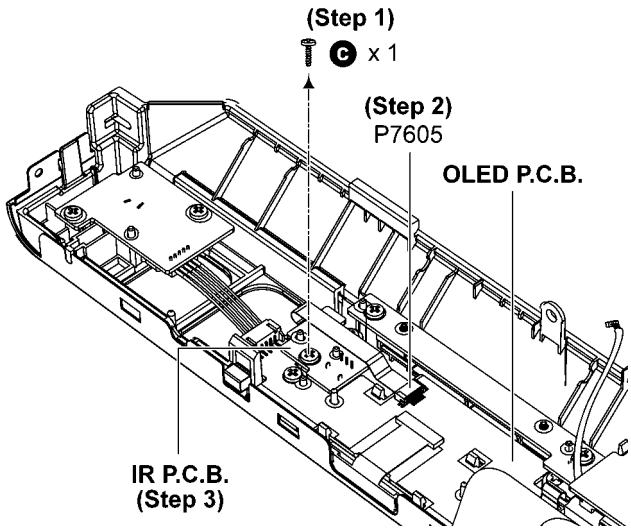
Step 1 Remove 2 screws.
Step 2 Detach 6P FFC at the connector (P7608) on OLED P.C.B..
Step 3 Remove Foot Illumination P.C.B..



8.13. Disassembly of IR P.C.B.

- **Refer to “Disassembly of Rear Panel”.**
- **Refer to “Disassembly of Side AL Panel L & R”.**
- **Refer to “Disassembly of Bottom Chassis”.**
- **Refer to “Disassembly of Front Panel Block”.**

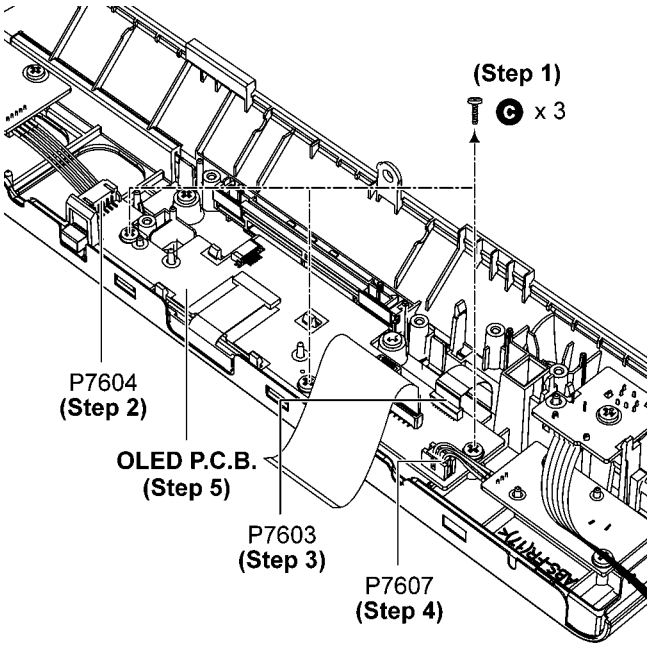
Step 1 Remove screw.
Step 2 Detach 6P FFC at the connector (P7605) on OLED P.C.B..
Step 3 Remove IR P.C.B..



8.14. Disassembly of OLED P.C.B.

- **Refer to “Disassembly of Rear Panel”.**
- **Refer to “Disassembly of Side AL Panel L & R”.**
- **Refer to “Disassembly of Bottom Chassis”.**
- **Refer to “Disassembly of Front Panel Block”.**
- **Refer to “Disassembly of USB P.C.B.”.**
- **Refer to “Disassembly of Foot Illumination P.C.B.”.**
- **Refer to “Disassembly of IR P.C.B.”.**

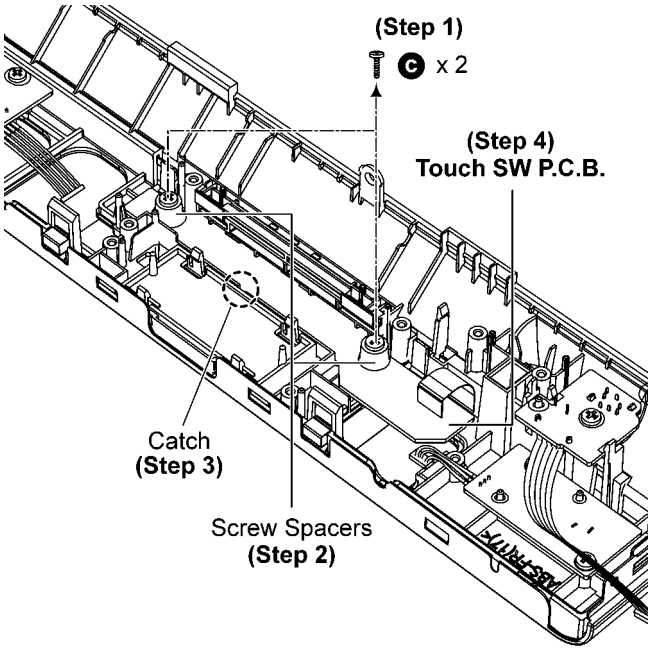
Step 1 Remove 3 screws.
Step 2 Detach 5P Cable at the connector (P7604) on OLED P.C.B..
Step 3 Detach 20P FFC at the connector (P7603) on OLED P.C.B..
Step 4 Detach 3P FFC at the connector (P7607) on OLED P.C.B..
Step 5 Remove OLED P.C.B..



8.15. Disassembly of Touch SW P.C.B.

- **Refer to “Disassembly of Rear Panel”.**
- **Refer to “Disassembly of Side AL Panel L & R”.**
- **Refer to “Disassembly of Bottom Chassis”.**
- **Refer to “Disassembly of Front Panel Block”.**
- **Refer to “Disassembly of USB P.C.B.”.**
- **Refer to “Disassembly of Foot Illumination P.C.B.”.**
- **Refer to “Disassembly of IR P.C.B.”.**
- **Refer to “Disassembly of OLED P.C.B.”.**

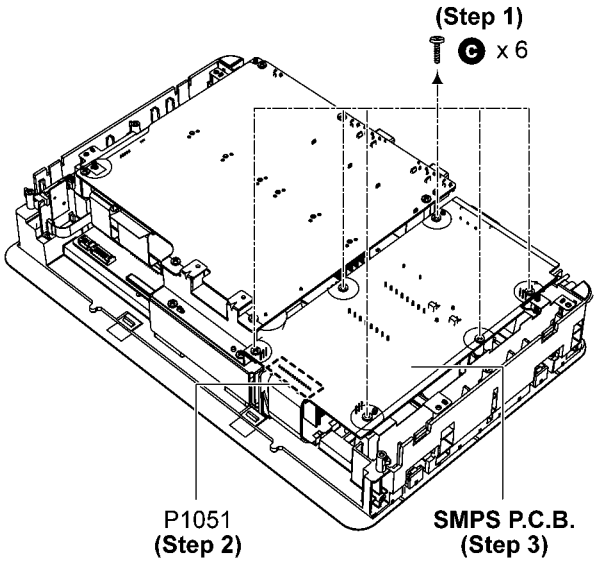
Step 1 Remove 2 screws.
Step 2 Remove Screw Spacers.
Step 3 Release catch.
Step 4 Remove Touch SW P.C.B..



8.16. Disassembly of SMPS P.C.B.

- **Refer to “Disassembly of Rear Panel”.**
- **Refer to “Disassembly of Side AL Panel L & R”.**
- **Refer to “Disassembly of Bottom Chassis”.**
- **Refer to “Disassembly of Front Panel Block”.**

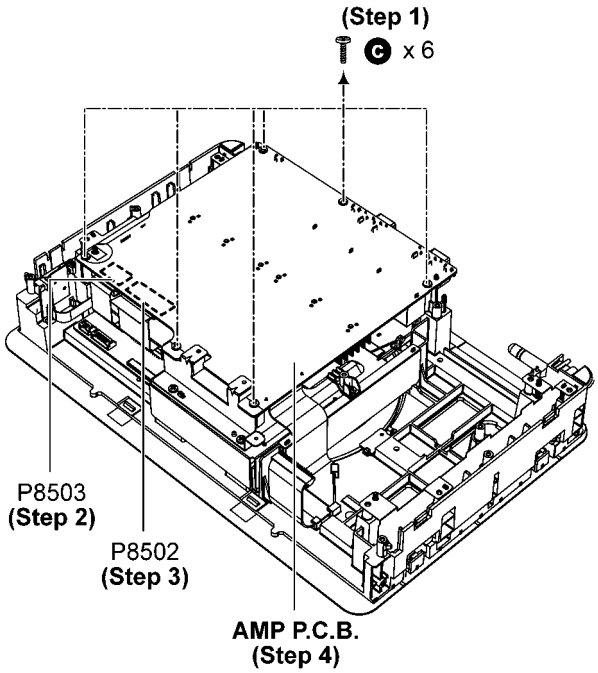
Step 1 Remove 6 screws.
Step 2 Detach 15P Cable at the connector (P1051) on SMPS P.C.B..
Step 3 Remove SMPS P.C.B..



8.17. Disassembly of AMP P.C.B.

- **Refer to “Disassembly of Rear Panel”.**
- **Refer to “Disassembly of Side AL Panel L & R”.**
- **Refer to “Disassembly of Bottom Chassis”.**
- **Refer to “Disassembly of Front Panel Block”.**
- **Refer to “Disassembly of SMPS P.C.B.”.**

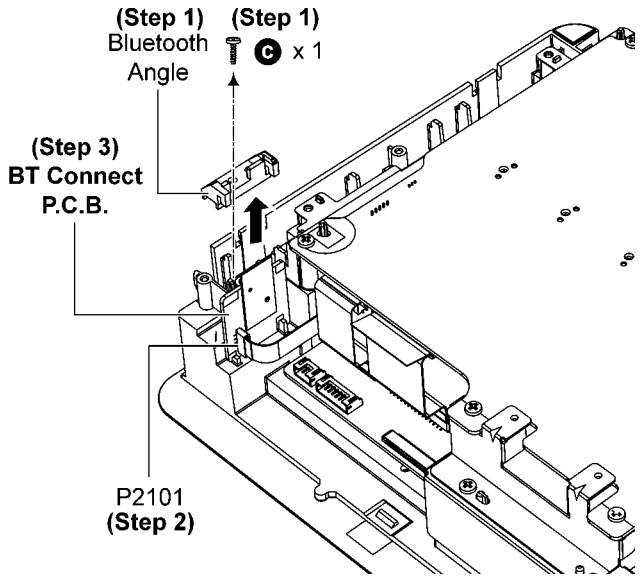
Step 1 Remove 6 screws.
Step 2 Detach 40P FFC at the connector (P8503) on AMP P.C.B..
Step 3 Detach 30P FFC at the connector (P8502) on AMP P.C.B..
Step 4 Remove AMP P.C.B..



8.18. Disassembly of BT Connect P.C.B.

- **Refer to “Disassembly of Rear Panel”.**
- **Refer to “Disassembly of Side AL Panel L & R”.**
- **Refer to “Disassembly of Bottom Chassis”.**
- **Refer to “Disassembly of Front Panel Block”.**

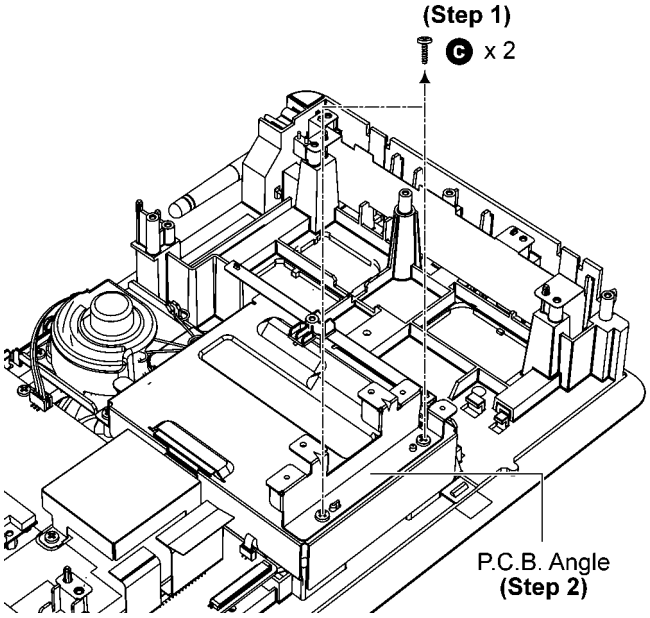
Step 1 Remove screw and Bluetooth Angle.
Step 2 Detach 8P FFC at the connector (P2101) on BT Connect P.C.B..
Step 3 Remove BT Connect P.C.B..



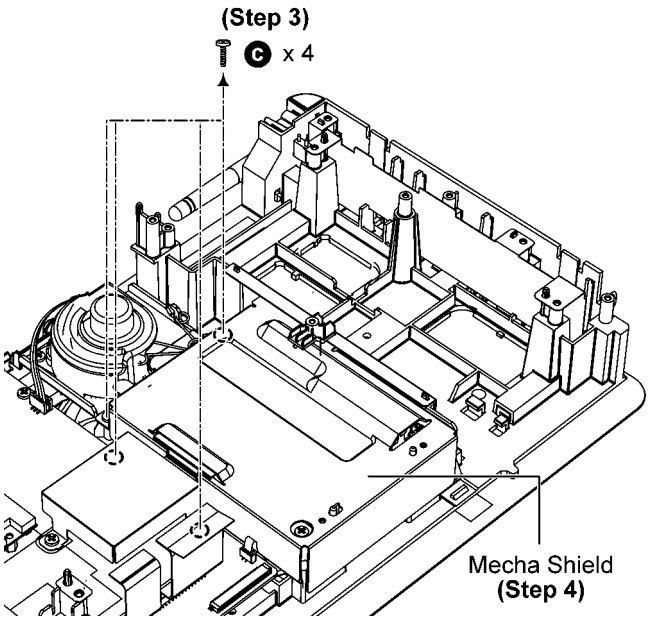
8.19. Disassembly of CD Mechanism Block

- **Refer to “Disassembly of Rear Panel”.**
- **Refer to “Disassembly of Side AL Panel L & R”.**
- **Refer to “Disassembly of Bottom Chassis”.**
- **Refer to “Disassembly of Front Panel Block”.**
- **Refer to “Disassembly of SMPS P.C.B.”.**
- **Refer to “Disassembly of AMP P.C.B.”.**

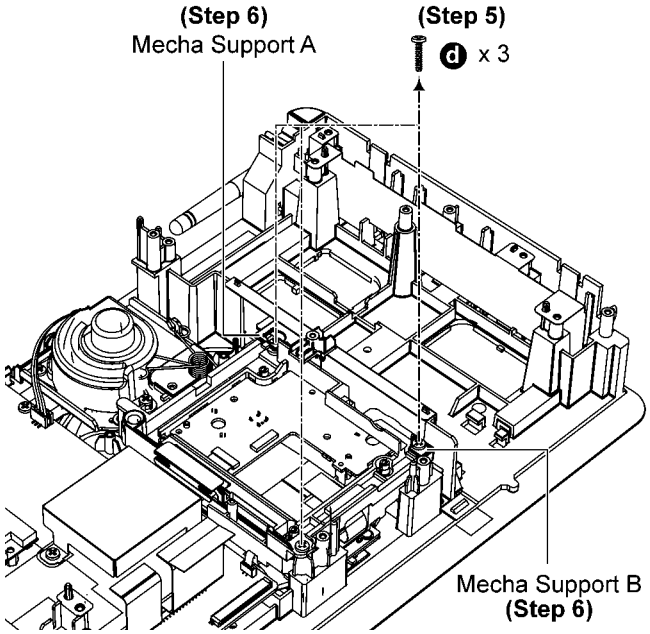
Step 1 Remove 2 screws.
Step 2 Remove P.C.B. Angle.



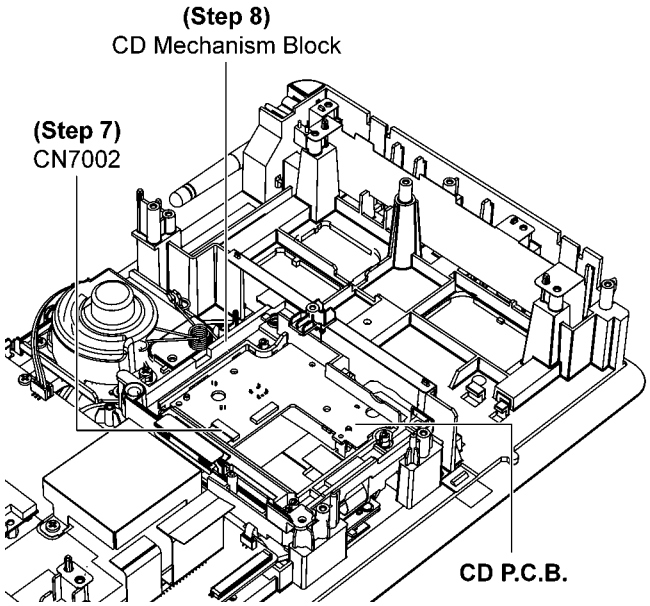
Step 3 Remove 4 screws.
Step 4 Remove Mecha Shield.



Step 5 Remove 3 screws.
Step 6 Remove Mecha Support A and Mecha Support B.



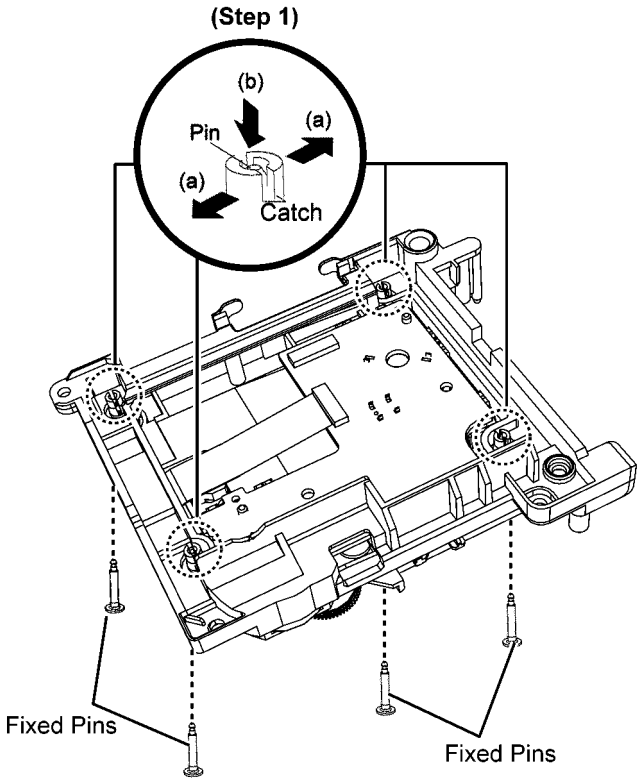
Step 7 Detach 24P FFC at the connector (CN7002) on CD P.C.B..
Step 8 Remove CD Mechanism Block.



8.20. Disassembly of CD P.C.B.

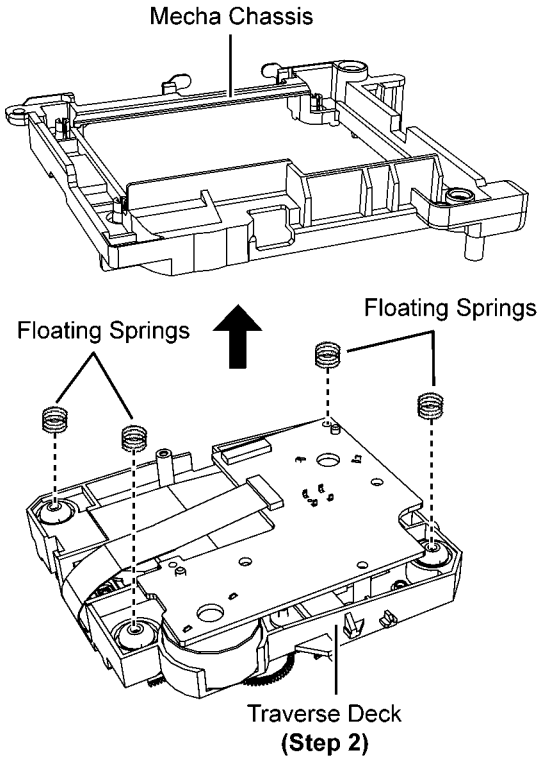
- **Refer to "Disassembly of Rear Panel".**
- **Refer to "Disassembly of Side AL Panel L & R".**
- **Refer to "Disassembly of Bottom Chassis".**
- **Refer to "Disassembly of Front Panel Block".**
- **Refer to "Disassembly of SMPS P.C.B.".**
- **Refer to "Disassembly of AMP P.C.B.".**
- **Refer to "Disassembly of CD Mechanism Block".**

Step 1 Release catches and push down the fixed pins as arrow shown.



Step 2 Remove Mecha Chassis & Floating Springs.

Caution : Keep the Floating Springs in safe place and place them back during assembling.



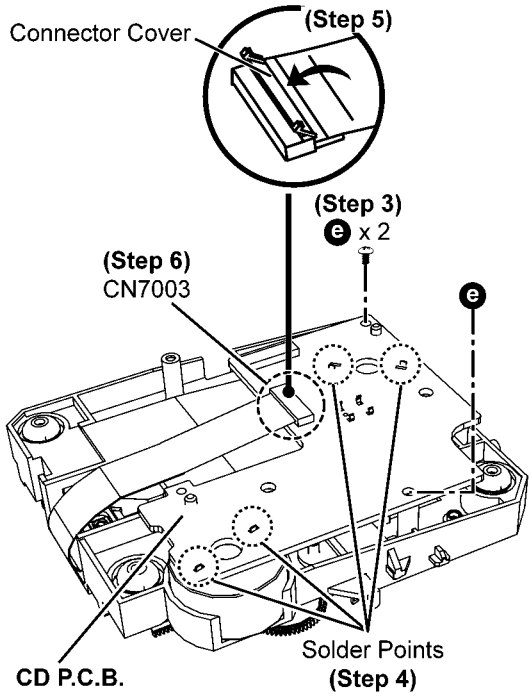
Step 3 Remove 2 screws.

Step 4 Desolder points on the solder side of the CD P.C.B..

Step 5 Lift up the Connector Cover.

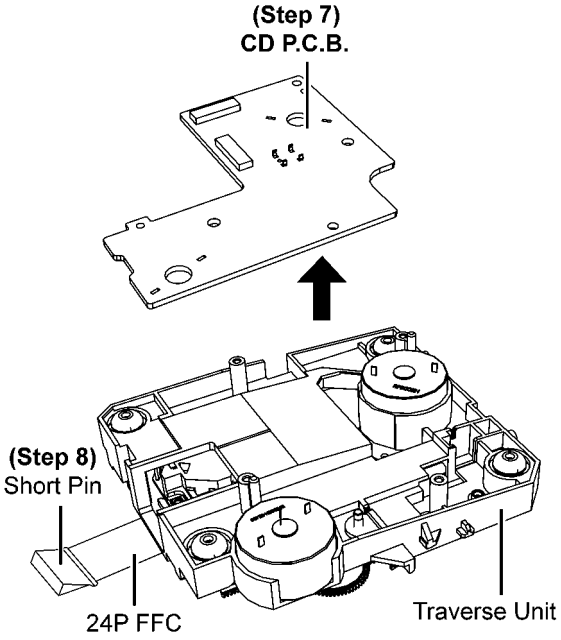
Caution : Do not use strong force as it may damage the connector cover.

Step 6 Detach 24P FFC at the connector (CN7003) on CD P.C.B..**Step 5** Lift up the Connector Cover.



Step 7 Remove CD P.C.B..

Step 8 Attach short pin to the 24P FFC of the Traverse Unit.



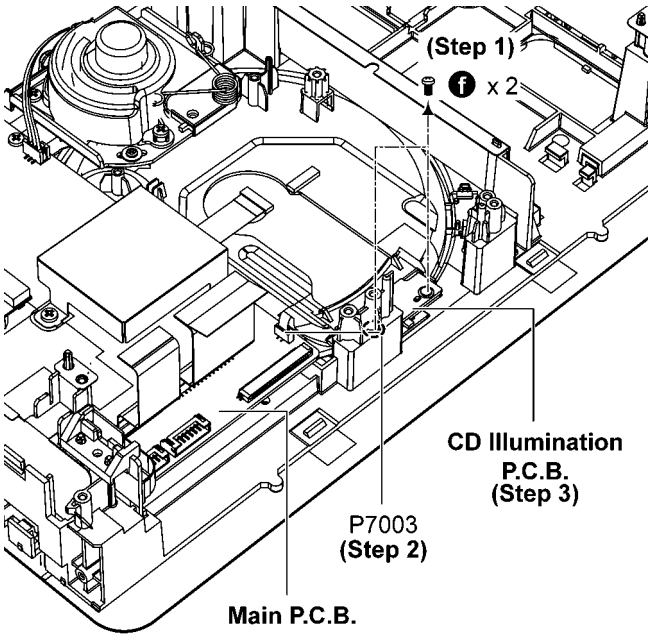
8.21. Disassembly of CD Illumination P.C.B.

- **Refer to "Disassembly of Rear Panel".**
- **Refer to "Disassembly of Side AL Panel L & R".**
- **Refer to "Disassembly of Bottom Chassis".**
- **Refer to "Disassembly of Front Panel Block".**
- **Refer to "Disassembly of SMPS P.C.B.".**
- **Refer to "Disassembly of AMP P.C.B.".**
- **Refer to "Disassembly of CD Mechanism Block".**

Step 1 Remove 2 screws.

Step 2 Detach 4P FFC at the connector (P7003) on Main P.C.B..

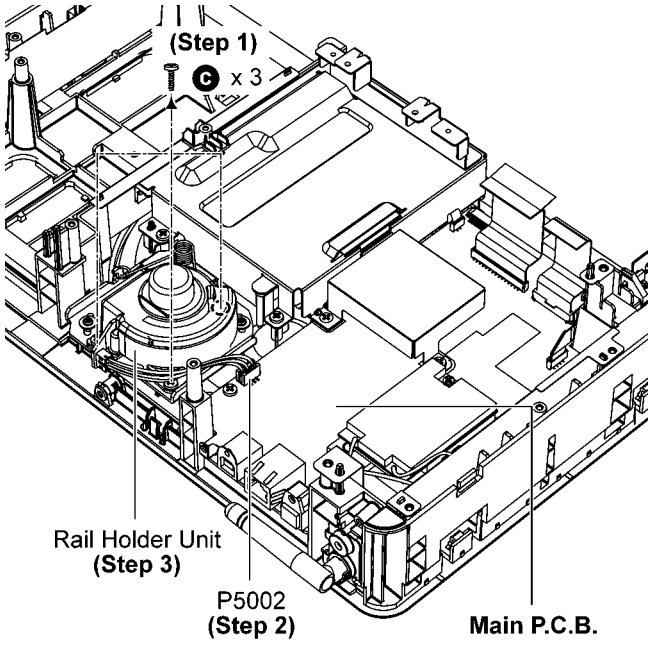
Step 3 Remove CD Illumination P.C.B..



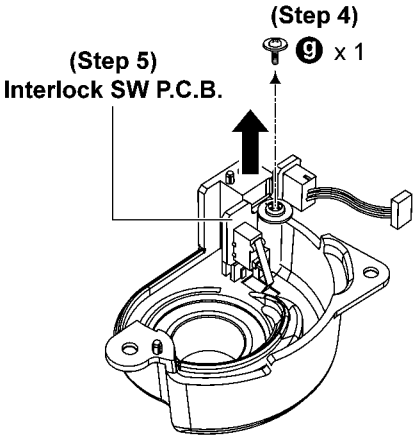
8.22. Disassembly of Shaft Unit A

- **Refer to "Disassembly of Rear Panel".**
- **Refer to "Disassembly of Side AL Panel L & R".**
- **Refer to "Disassembly of Bottom Chassis".**
- **Refer to "Disassembly of Front Panel Block".**
- **Refer to "Disassembly of SMPS P.C.B.".**
- **Refer to "Disassembly of AMP P.C.B.".**

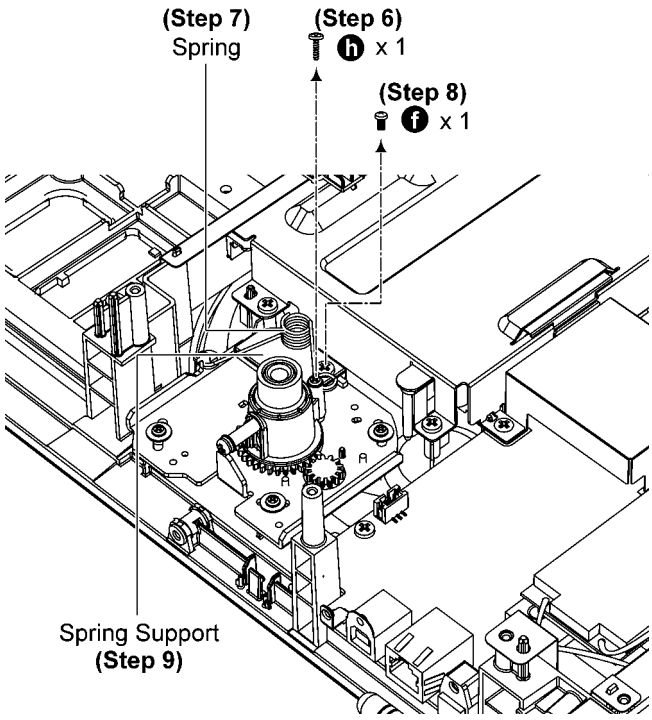
Step 1 Remove 3 screws.
Step 2 Detach 3P Cable at the connector (P5002) on Main P.C.B..
Step 3 Remove Rail Holder Unit.



Step 4 Remove screw.
Step 5 Remove Interlock SW P.C.B..



Step 6 Remove screw.
Step 7 Remove Spring.
Step 8 Remove screw.
Step 9 Remove Spring Support.



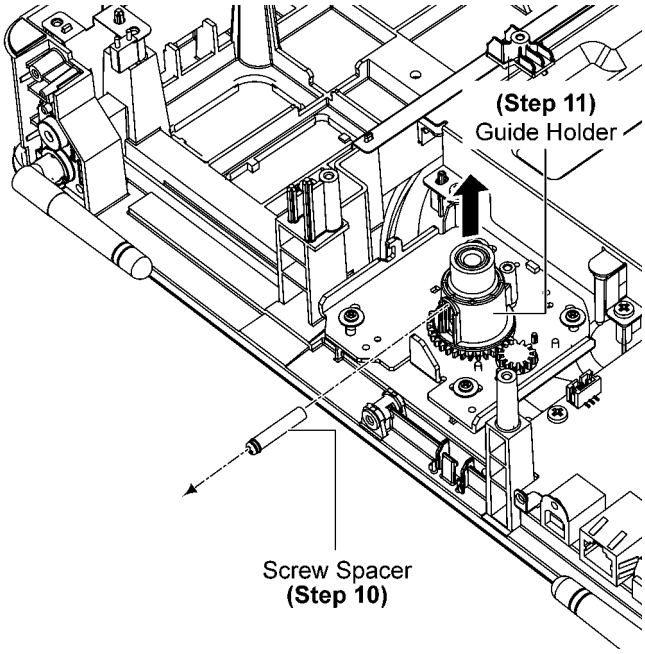
Step 10 Remove Screw Spacer.

Note for assembling:

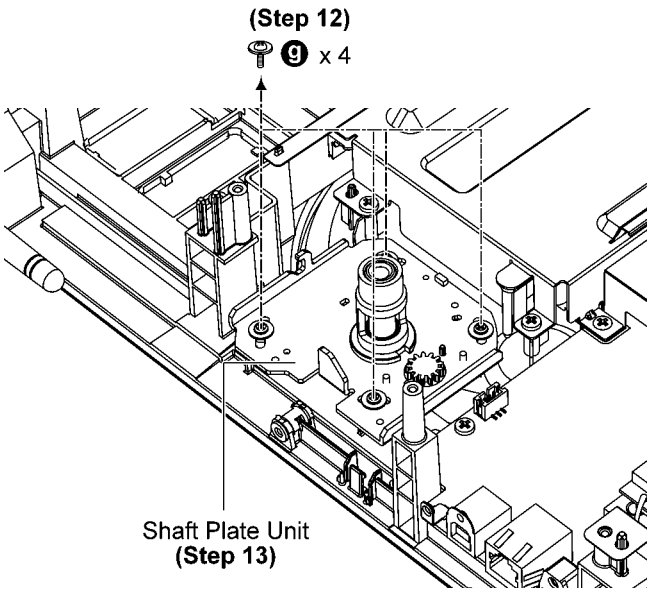
After removing the adhesive for screw lock cleanly from the Screw Spacer and the screw hole of Shaft Unit A, tighten up to the fastening torque: 7kgf·cm.

If some dusts of the adhesive for screw lock remains between Shaft Unit A and shaft plate, it may cause the operation failure or abnormal noise while opening/closing the CD cover.

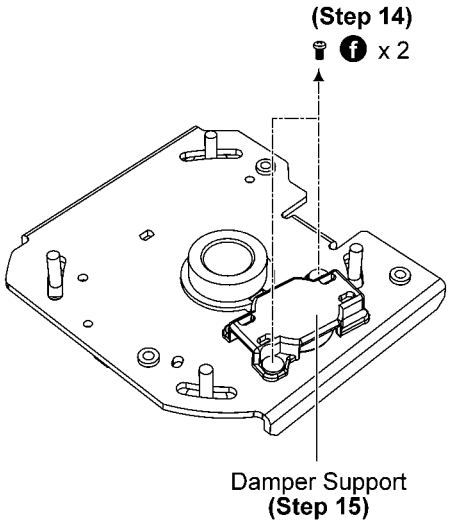
Step 11 Remove Guide Holder.



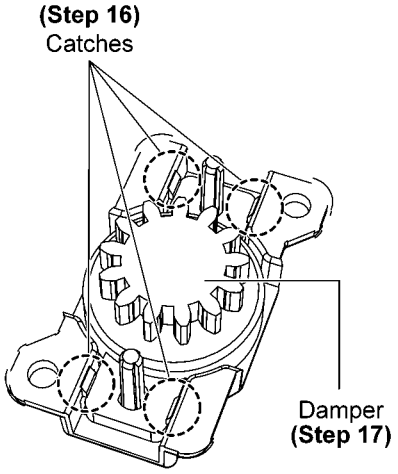
Step 12 Remove 4 screws.
Step 13 Remove Shaft Plate Unit.



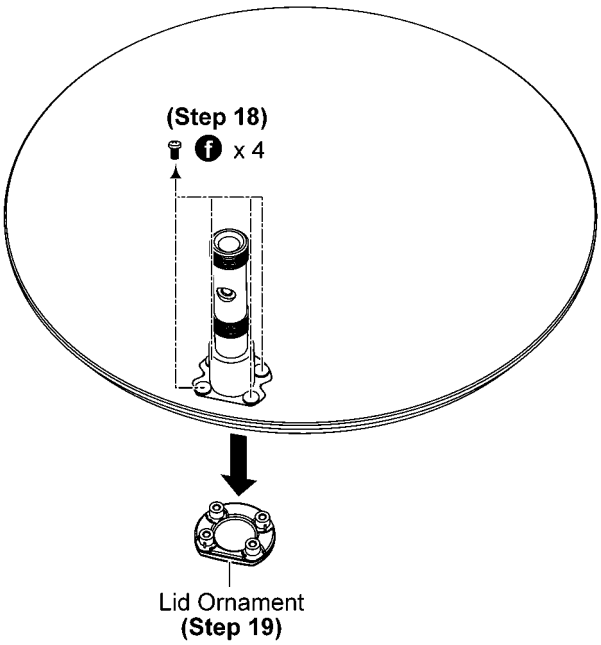
Step 14 Remove 2 screws.
Step 15 Remove Damper Support.



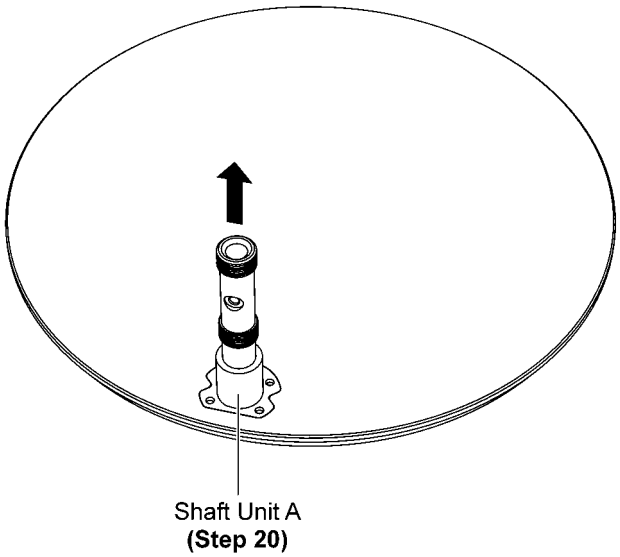
Step 16 Release catches.
Step 17 Remove Damper.



Step 18 Remove 4 screws.
Step 19 Remove Lid Ornament.



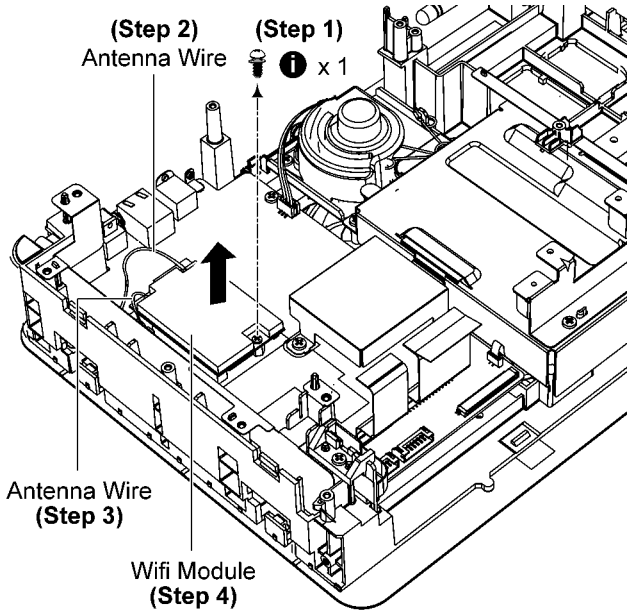
Step 20 Remove Shaft Unit A.



8.23. Disassembly of Wifi Module

- **Refer to “Disassembly of Rear Panel”.**
- **Refer to “Disassembly of Side AL Panel L & R”.**
- **Refer to “Disassembly of Bottom Chassis”.**
- **Refer to “Disassembly of Front Panel Block”.**
- **Refer to “Disassembly of SMPS P.C.B.”.**
- **Refer to “Disassembly of AMP P.C.B.”.**

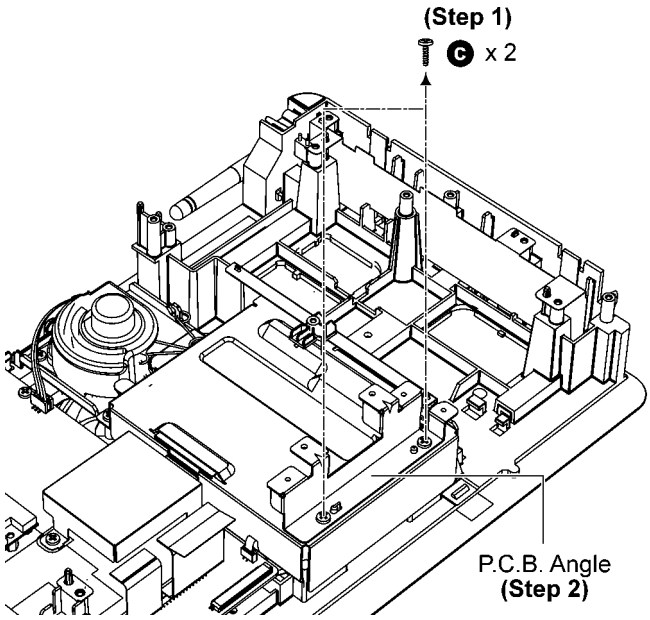
Step 1 Remove screw.
Step 2 Detach Antenna Wire on Wifi Module.
Step 3 Detach Antenna Wire on Wifi Module.
Step 4 Remove Wifi Module.



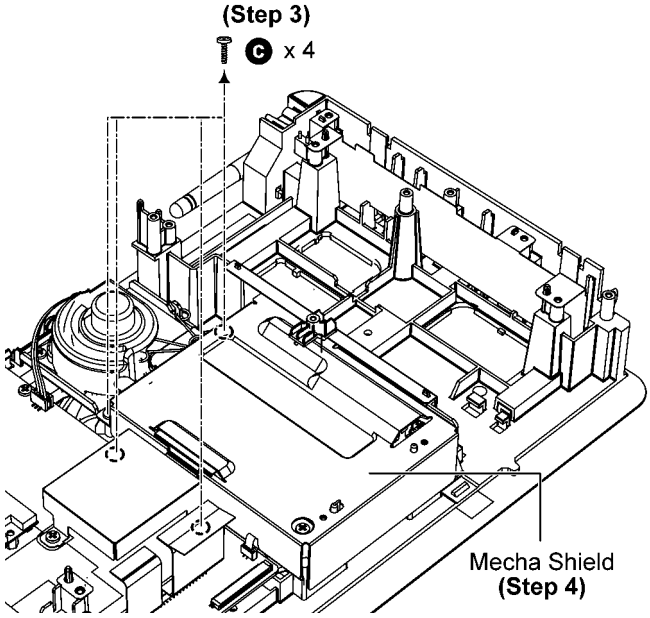
8.24. Disassembly of Main P.C.B.

- **Refer to “Disassembly of Rear Panel”.**
- **Refer to “Disassembly of Side AL Panel L & R”.**
- **Refer to “Disassembly of Bottom Chassis”.**
- **Refer to “Disassembly of Front Panel Block”.**
- **Refer to “Disassembly of SMPS P.C.B.”.**
- **Refer to “Disassembly of AMP P.C.B.”.**
- **Refer to “Disassembly of Wifi Module”.**

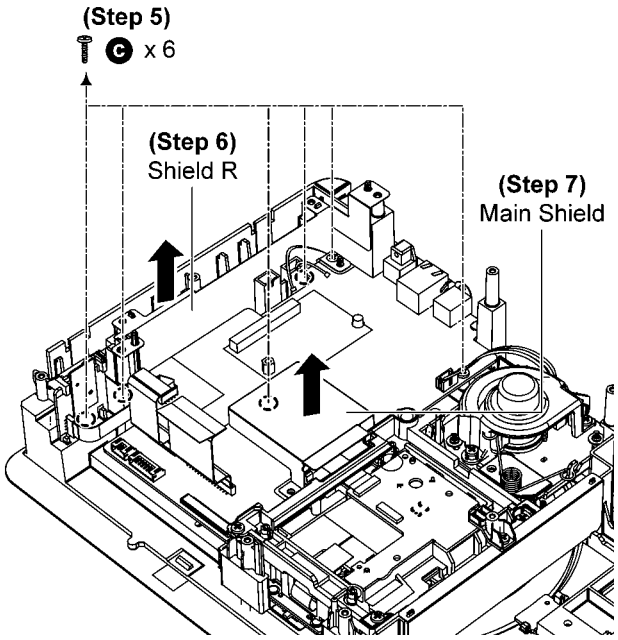
Step 1 Remove 2 screws.
Step 2 Remove P.C.B. Angle.



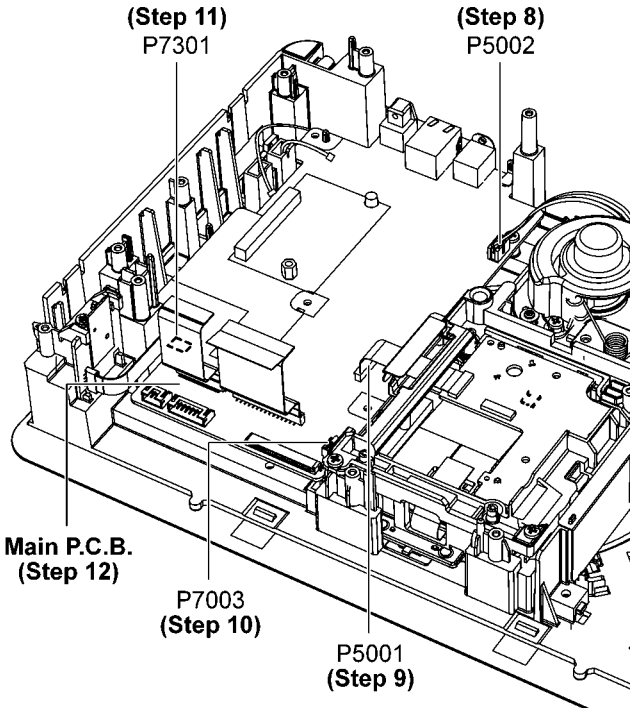
Step 3 Remove 4 screws.
Step 4 Remove Mecha Shield.



Step 5 Remove 6 screws.
Step 6 Remove Shield R.
Step 7 Remove Main Shield.



Step 8 Detach 3P Cable at the connector (P5002) on Main P.C.B..
Step 9 Detach 24P FFC at the connector (P5001) on Main P.C.B..
Step 10 Detach 4P FFC at the connector (P7003) on Main P.C.B..
Step 11 Detach 8P FFC at the connector (P7301) on Main P.C.B..
Step 12 Remove Main P.C.B..

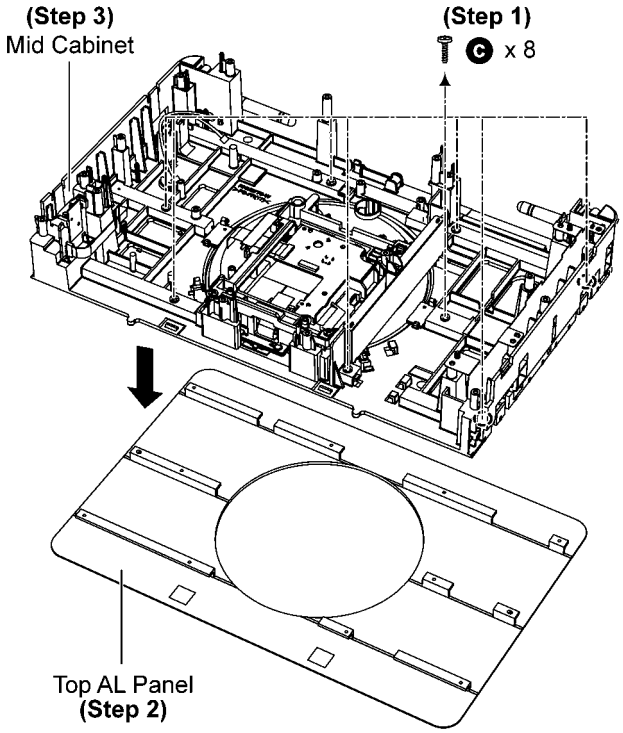


8.25. Replacement of Wifi Antenna L & R

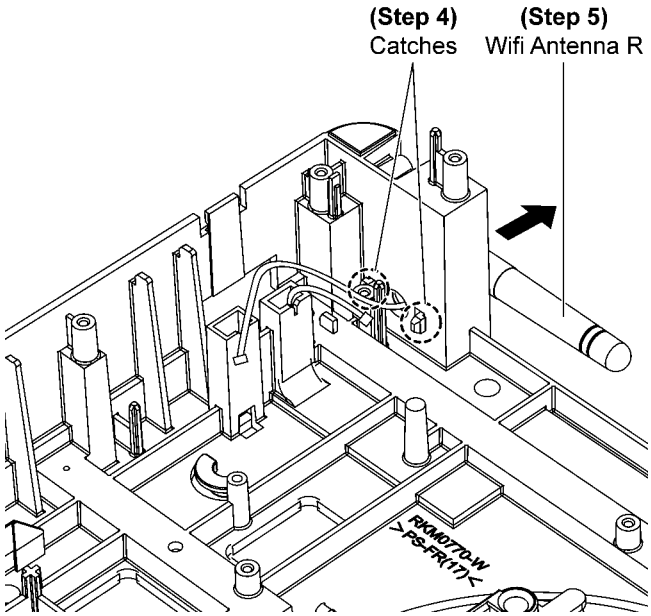
- **Refer to "Disassembly of Rear Panel".**
- **Refer to "Disassembly of Side AL Panel L & R".**
- **Refer to "Disassembly of Bottom Chassis".**
- **Refer to "Disassembly of Front Panel Block".**
- **Refer to "Disassembly of SMPS P.C.B.".**
- **Refer to "Disassembly of AMP P.C.B.".**
- **Refer to "Disassembly of Shaft Unit A".**
- **Refer to "Disassembly of Wifi Module".**
- **Refer to "Disassembly of Main P.C.B.".**

Caution:
Screw spacer Unit can not be reuse at replacing (repairing) of CD Lid, Top AL Panel, Shaft Unit A. It is necessary to use new one.

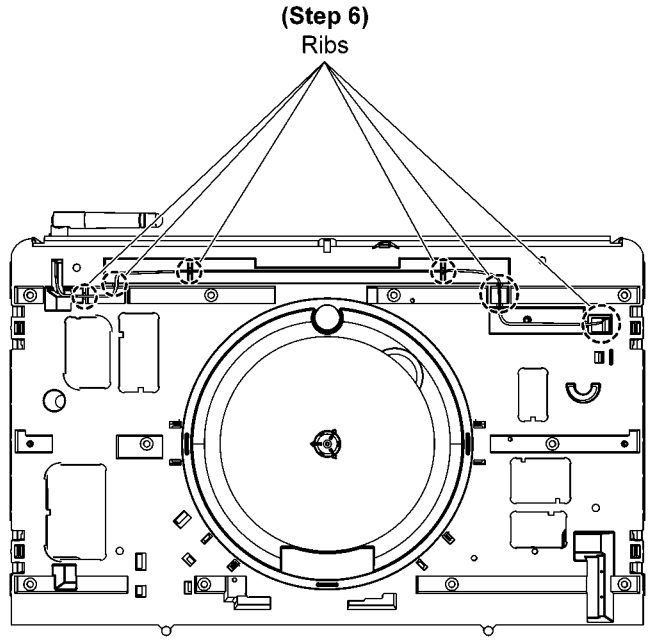
Step 1 Remove 8 screws.
Step 2 Remove Top AL Panel.
Step 3 Upset Mid Cabinet.



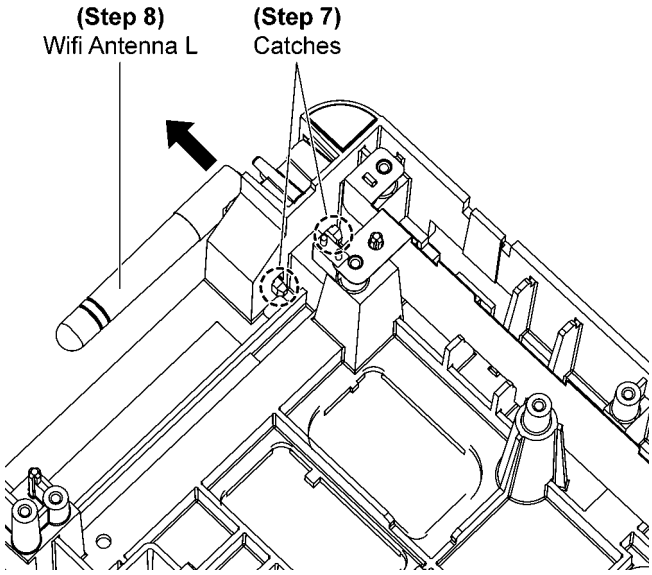
Step 4 Release catches.
Step 5 Remove Wifi Antenna R.



Step 6 Lift up Antenna Wire from ribs.

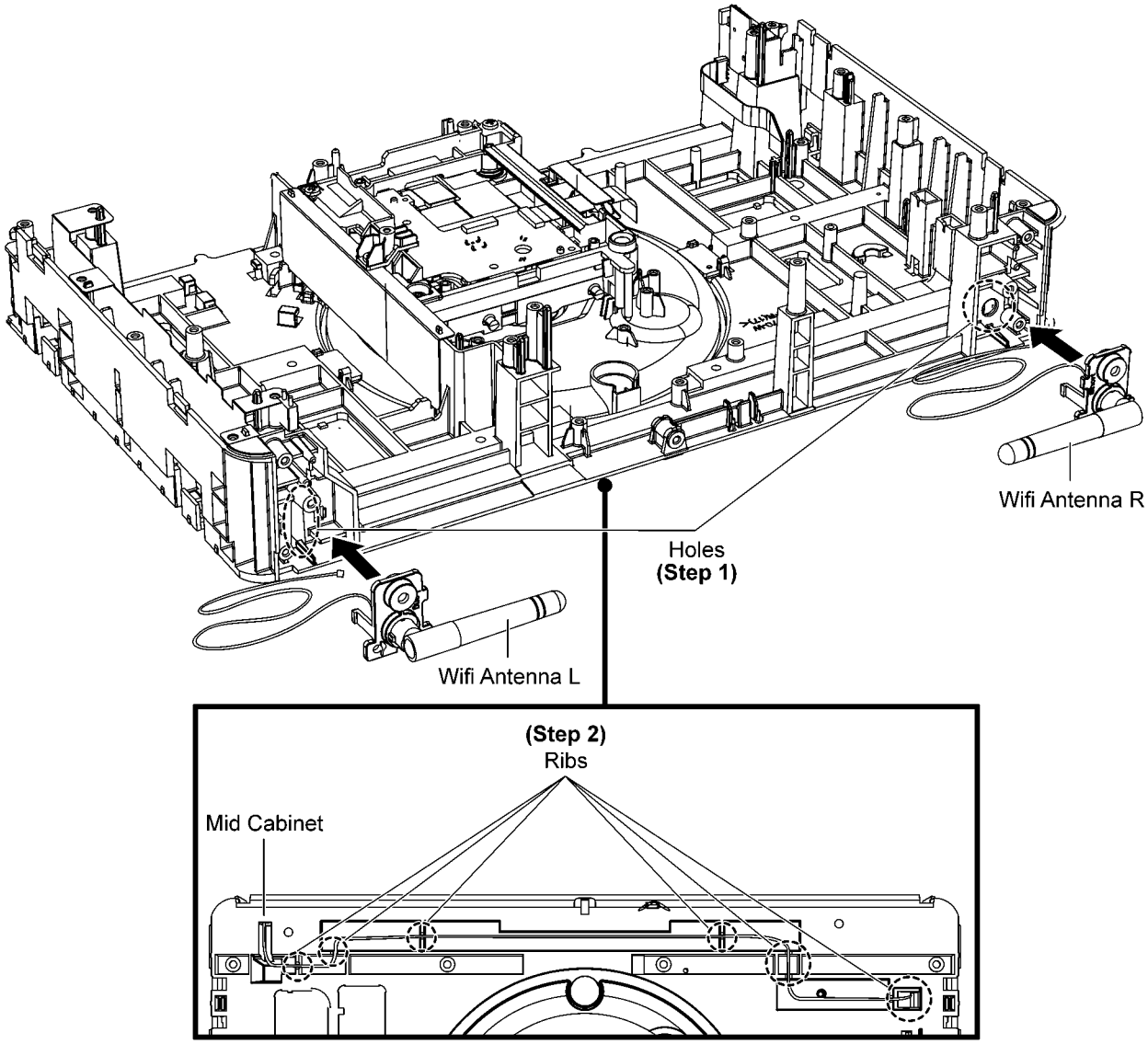


Step 7 Release catches.
Step 8 Remove Wifi Antenna L.

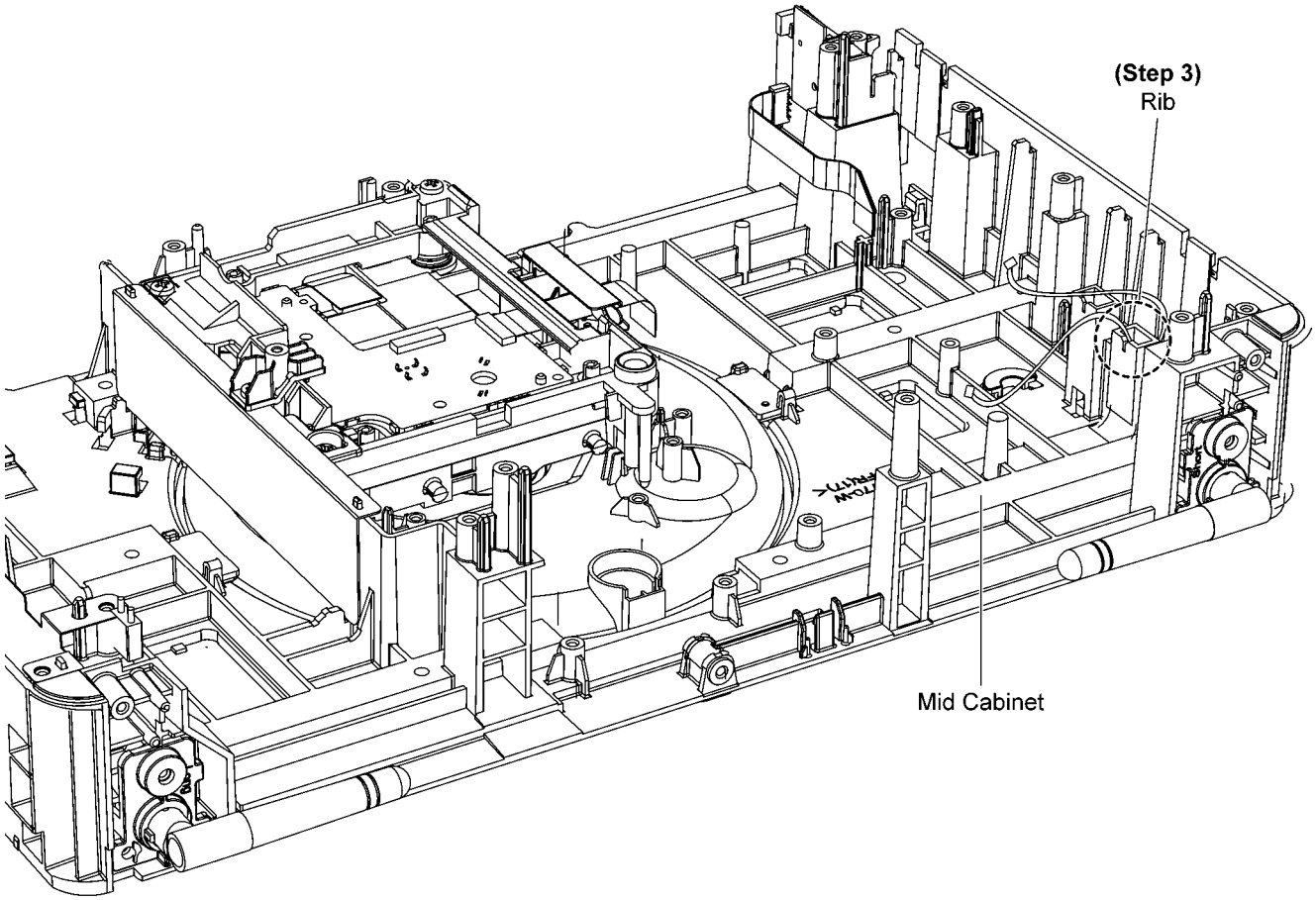


8.26. Assembly of Wifi Antenna L & R

Step 1 Insert Wifi Antenna L and Wifi Antenna R into Holes at Mid Cabinet.
Step 2 Dressed Antenna Wire into the ribs of Mid Cabinet.



Step 3 Dressed Antenna Wire into the rib of Mid Cabinet.

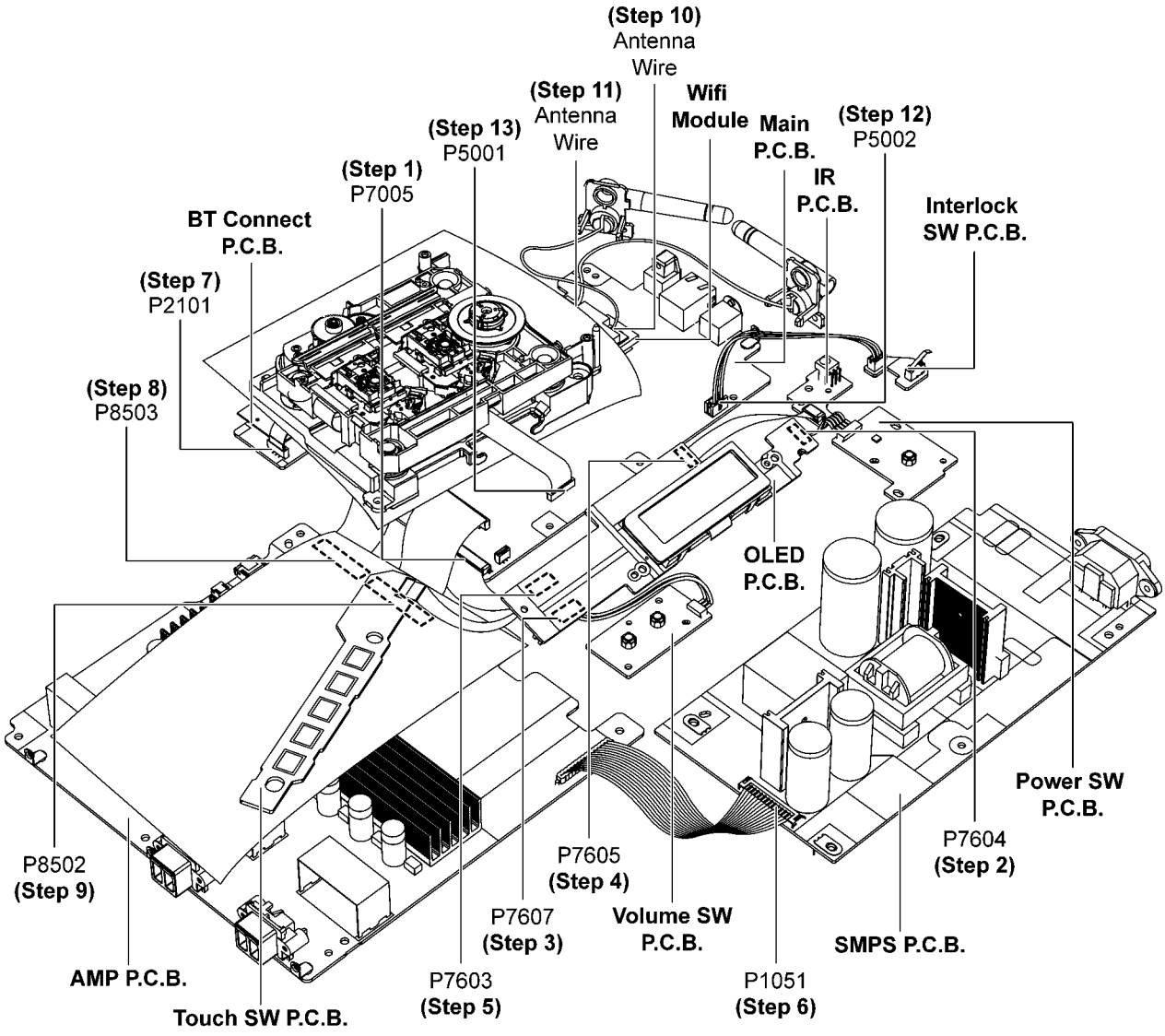


9 Service Position

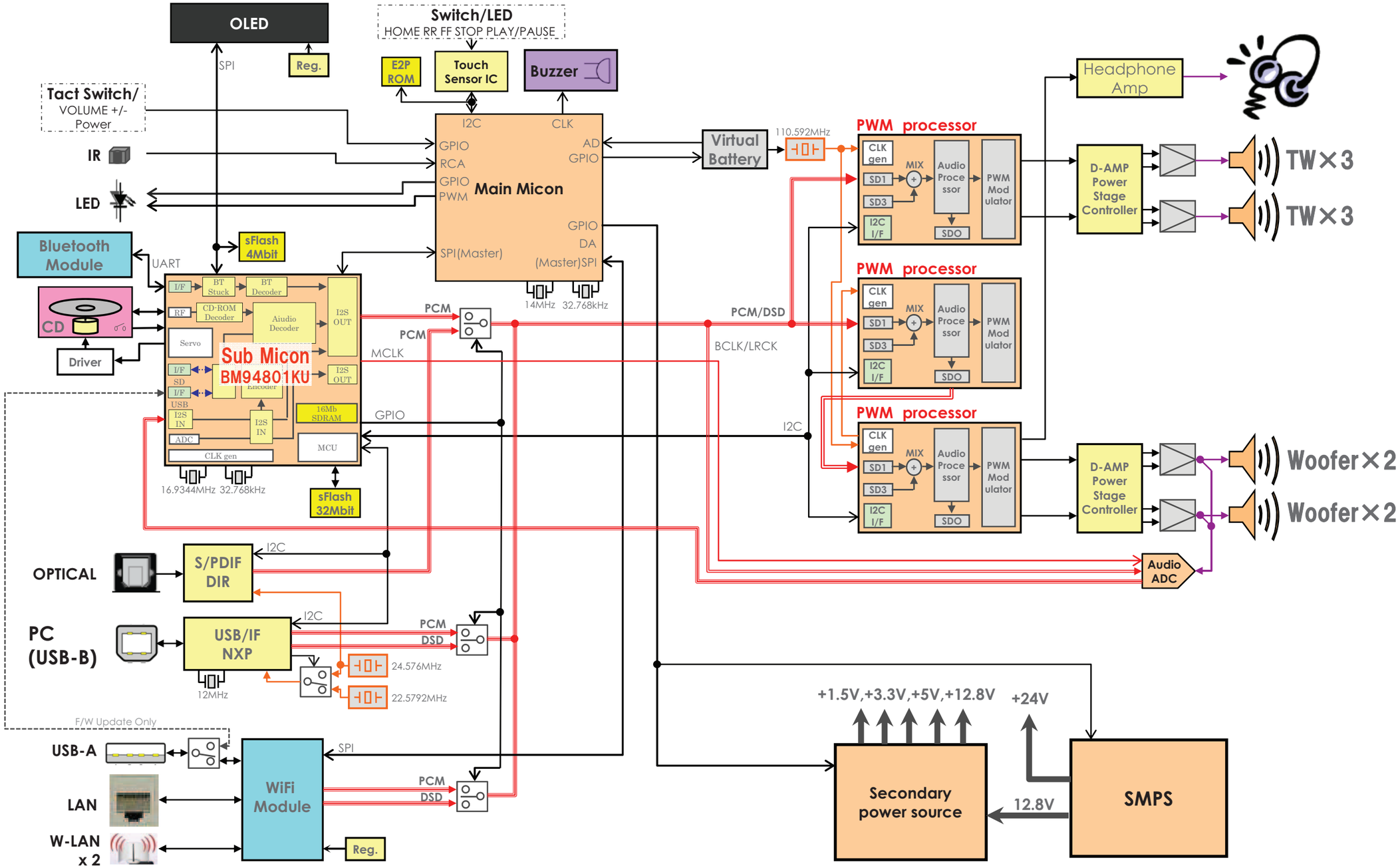
Note: For description of the disassembly procedures, refer Section 8 of the Service Manual.

9.1. Checking and Repairing of Power SW P.C.B., Volume SW P.C.B., IR P.C.B., OLED P.C.B., Touch SW P.C.B., SMPS P.C.B., AMP P.C.B., BT Connect P.C.B., CD P.C.B., Interlock SW P.C.B., Wifi Module and Main P.C.B.

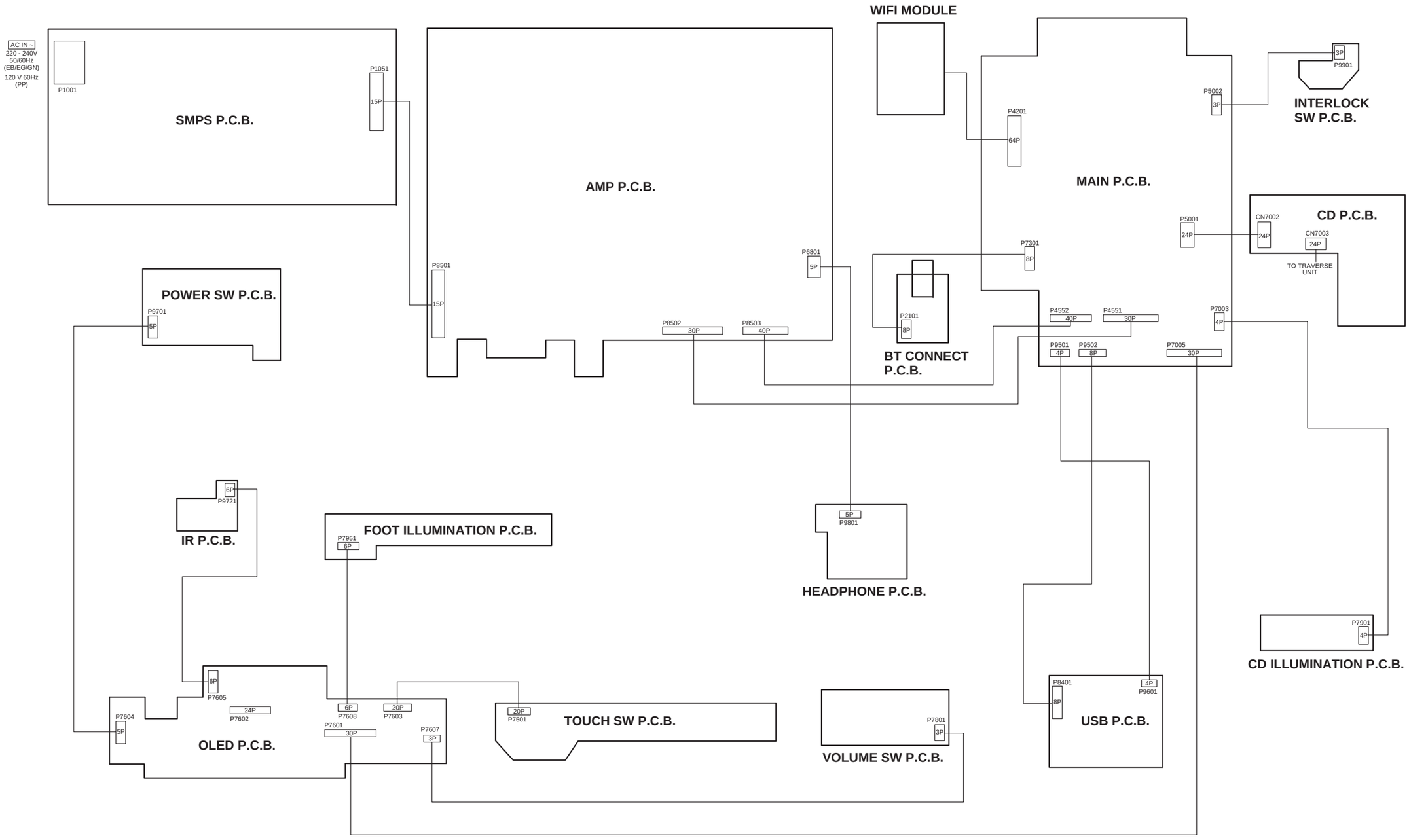
Step 1 Attach 30P FFC at the connector (P7005) on Main P.C.B..
Step 2 Attach 5P Cable at the connector (P7604) on OLED P.C.B..
Step 3 Attach 3P Cable at the connector (P7607) on OLED P.C.B..
Step 4 Attach 6P FFC at the connector (P7605) on OLED P.C.B..
Step 5 Attach 20P FFC at the connector (P7603) on OLED P.C.B..
Step 6 Attach 15P Cable at the connector (P1051) on SMPS P.C.B..
Step 7 Attach 8P FFC at the connector (P2101) on BT Connect P.C.B..
Step 8 Attach 40P FFC at the connector (P8503) on AMP P.C.B..
Step 9 Attach 30P FFC at the connector (P8502) on AMP P.C.B..
Step 10 Attach Antenna Wire on Wifi Module.
Step 11 Attach Antenna Wire on Wifi Module.
Step 12 Attach 3P Cable at the connector (P5002) on Main P.C.B..
Step 13 Attach 24P FFC at the connector (P5001) on Main P.C.B..
Step 14 Power SW P.C.B., Volume SW P.C.B., IR P.C.B., OLED P.C.B., Touch SW P.C.B., SMPS P.C.B., AMP P.C.B., BT Connect P.C.B., CD P.C.B., Interlock SW P.C.B., Wifi Module and Main P.C.B. can be checked as diagram shown.



10 Block Diagram



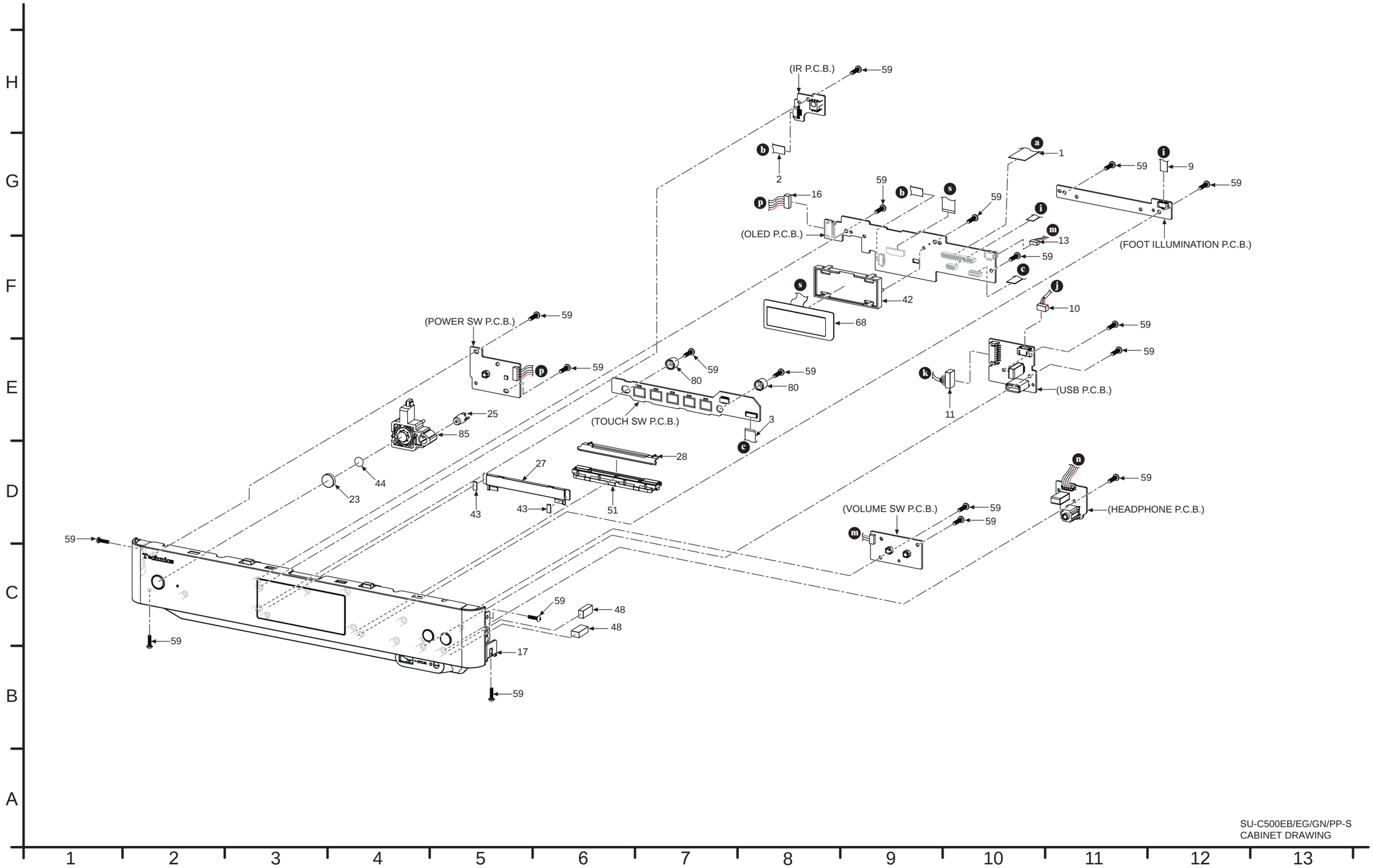
11 Wiring Connection Diagram



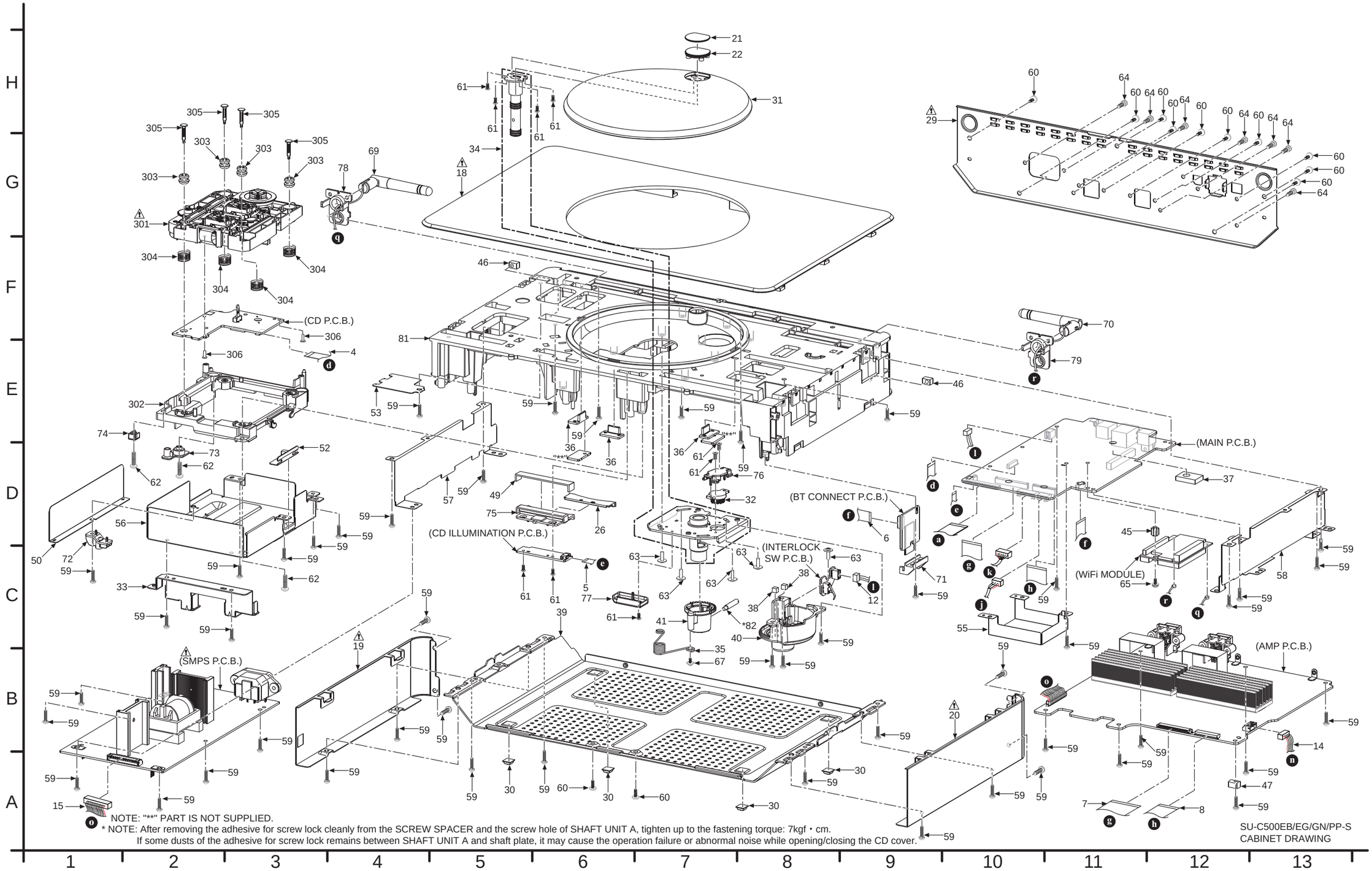
SU-C500EB/EG/GN/PP, SU-C550EB/EG WIRING CONNECTION DIAGRAM

12 Exploded View and Replacement Parts List

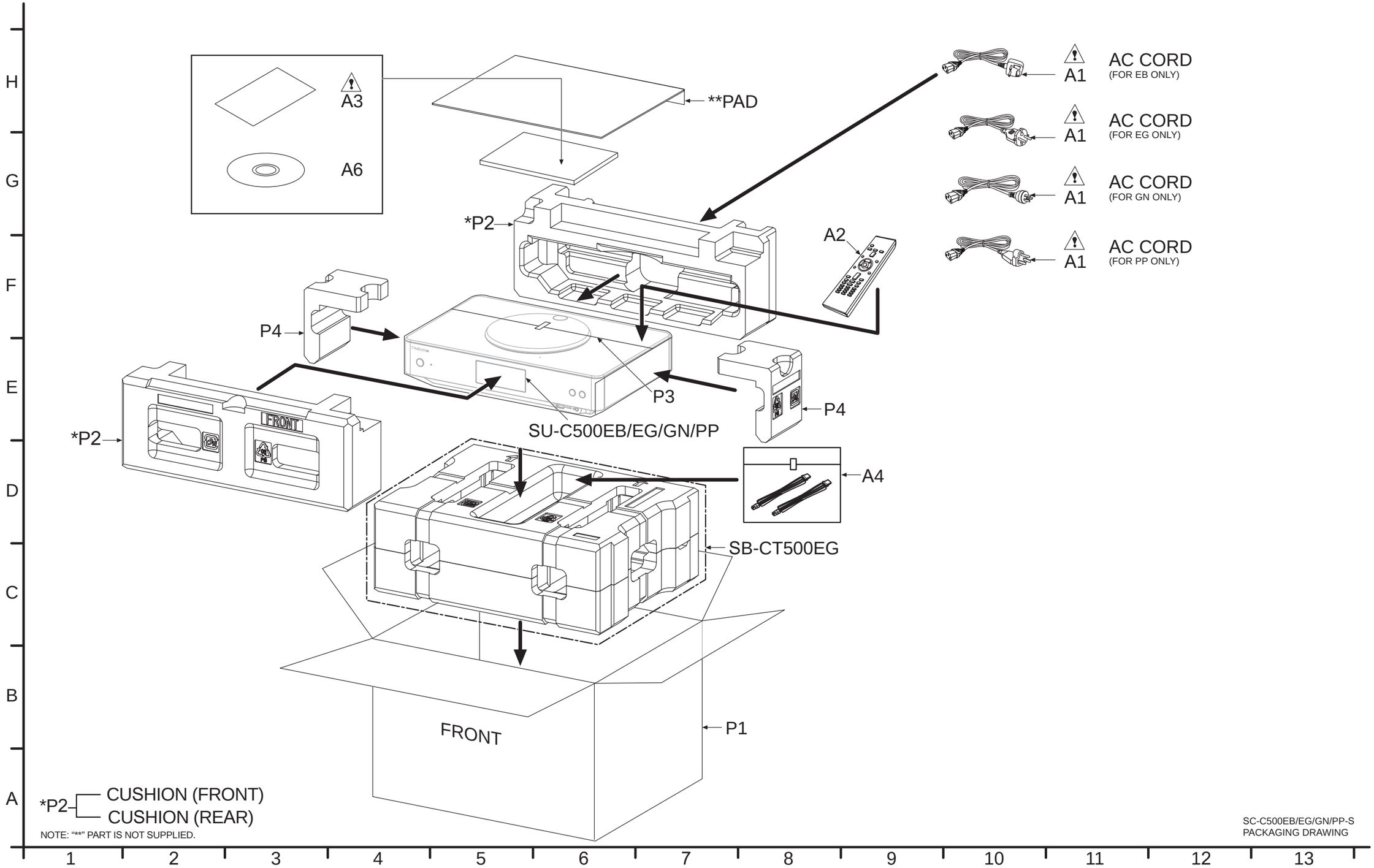
12.1. Cabinet Parts Location 1 (SU-C500EB/EG/GN/PP)



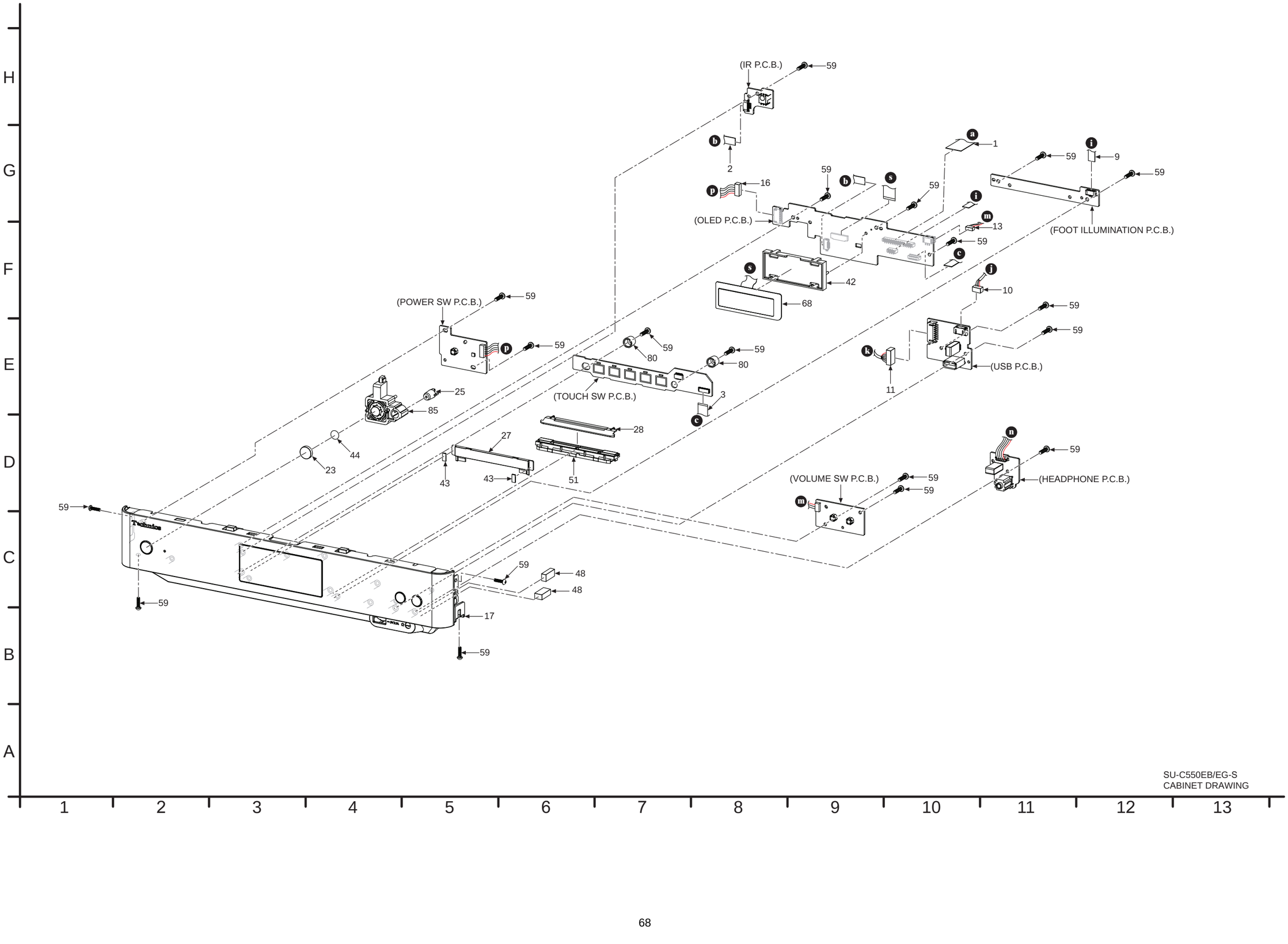
12.2. Cabinet Parts Location 2 (SU-C500EB/EG/GN/PP)



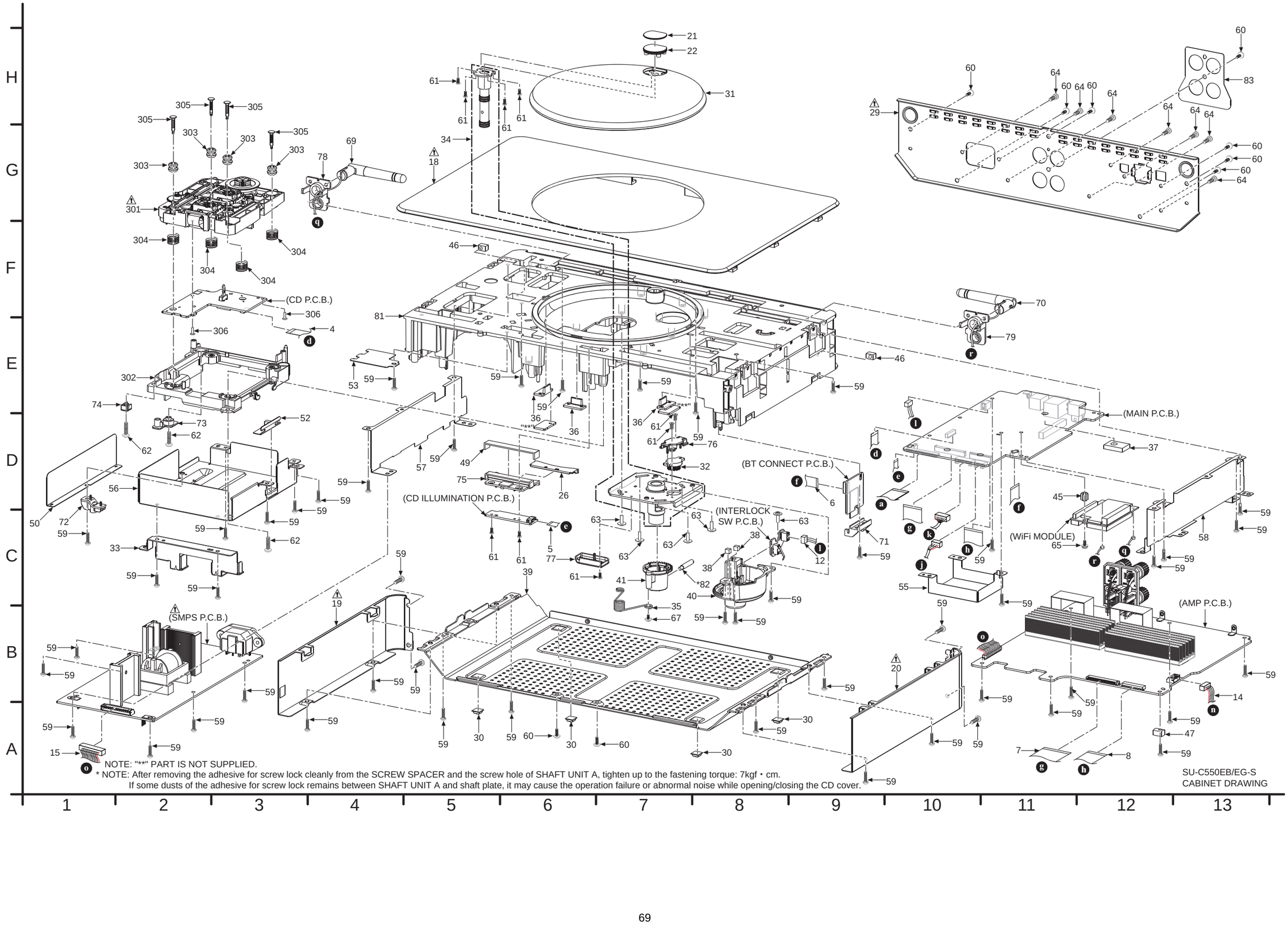
12.3. Packaging (SC-C500EB/EG/GN/PP)



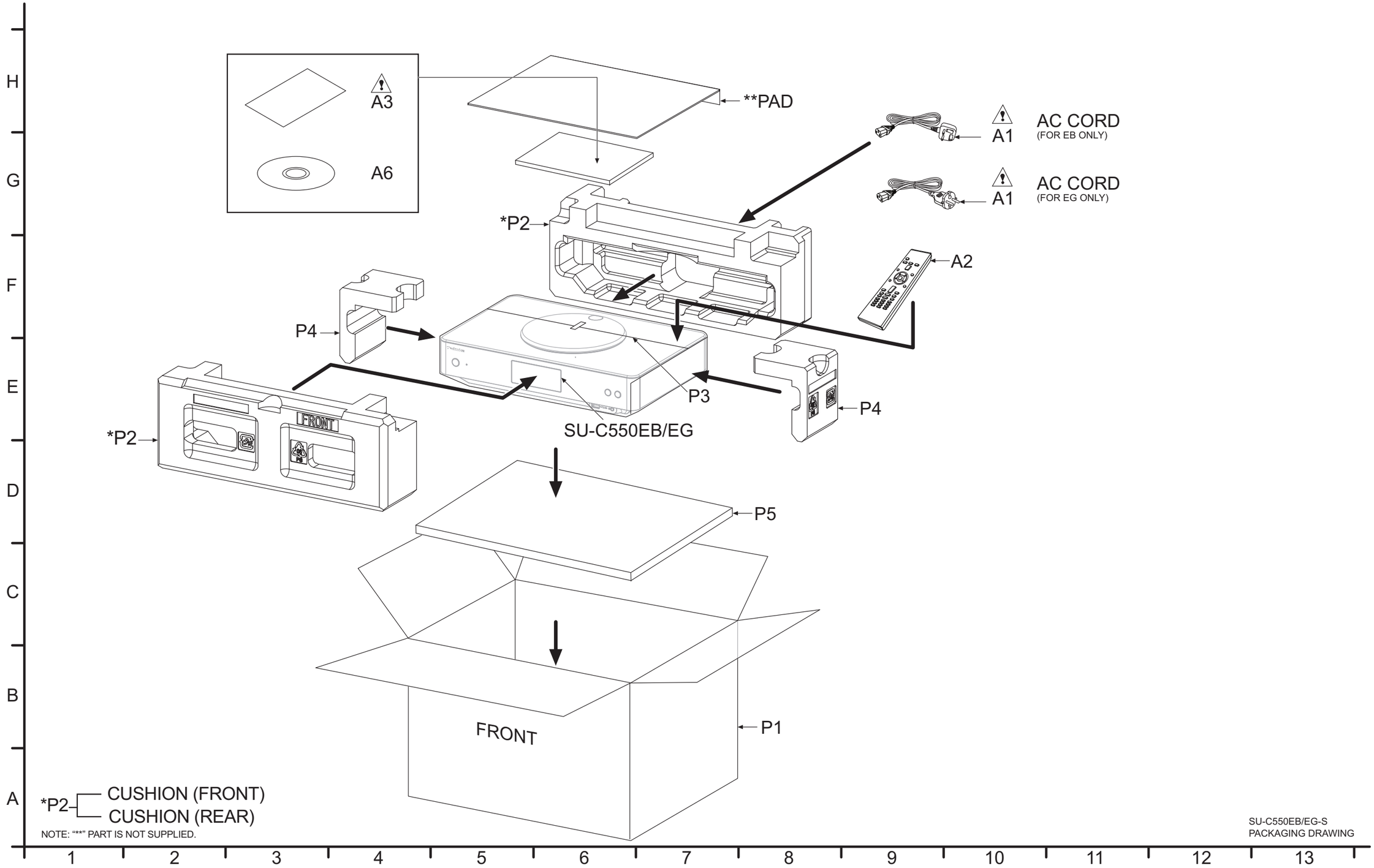
12.4. Cabinet Parts Location 1 (SU-C550EB/EG)



12.5. Cabinet Parts Location 2 (SU-C550EB/EG)



12.6. Packaging (SU-C550EB/EG)



12.7. Mechanical Replacement Part 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 PAVCJM unless indicated likewise.
- Reference for O/I book languages are as follows:

Ar:	Arabic	Du:	Dutch	It:	Italian	Sp:	Spanish
Cf:	Canadian French	En:	English	Ko:	Korean	Sw:	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	Fi:	Finnish

12.7.1. SU-C500EB/EG/GN/PP

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			CABINET AND CHASSIS		
	1	REE2120	30P FFC (OLED - MAIN)	1	
	2	REE2122	6P FFC (IR - OLED)	1	
	3	REE2123-1	20P FFC (TOUCH SW - OLED)	1	
	4	REE2124	24P FFC (CD-MAIN)	1	
	5	REE2125	4P FFC (CD ILLUMINATION - MAIN)	1	
	6	REE2126	8P FFC (MAIN-BT CONNECT)	1	
	7	REE2127	30P FFC (MAIN-AMP)	1	
	8	REE2128	40P FFC (MAIN-AMP)	1	
	9	REE2133	6P FFC (FOOT ILLUMINATION - OLED)	1	
	10	REX1749	4P SHIELDED WIRE (USB-MAIN)	1	
	11	REX1891	8P WIRE (USB-MAIN)	1	
	12	REX1894	3P WIRE (INTERLOCK SW-MAIN)	1	
	13	REX1893	3P WIRE (VOLUME SW - OLED)	1	
	14	REX1889	5P WIRE (HEADPHONE - AMP)	1	
	15	REX1888	15P WIRE (SMPS-AMP)	1	
	16	REX1892	5P WIRE (POWER SW - OLED)	1	
	17	RYK1921-S	FRONT PANEL UNIT	1	
⚠	18	RGG0277-S	TOP AL PANEL	1	
⚠	19	RGG0278-S	SIDE AL PANEL L	1	
⚠	20	RGG0279-S	SIDE AL PANEL R	1	
	21	RGK2620-S	SCREW CAP	1	
	22	RGK2621-K	LID ORNAMENT	1	
	23	RGK2624-S	POWER SW COVER	1	
	25	RGL0814-Q	LIGHT GUIDE	1	
	26	RGL0824-W	CD LIGHTING GUIDE	1	
	27	RGL0825-W	PICT LIGHT GUIDE	1	
	28	RGL0838-W	FOOT LIGHT GUIDE	1	
⚠	29	RGR0483A-A1	REAR PANEL	1	EB/EG/GN
⚠	29	RGR0483A-B	REAR PANEL	1	PP
	30	RKAX0042-K	RUBBER LEG	4	
	31	RKF0988-Q1	CD LID	1	
	32	RDG0670	DAMPER	1	
	33	RMA2538	PCB ANGLE	1	
	34	RXJ0054	SHAFT PLATE UNIT	1	
	35	RMB1000	SPRING	1	
	36	RMG1033-W	LID RUBBER A	3	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	37	RMG1051-K	WIFI CUSHION	1	
	38	RMG1056-K	CUSHION	2	
	39	RMK0908	BOTTOM CHASSIS	1	
	40	RMM0319	RAIL HOLDER	1	
	41	RMM0320-1	GUIDE HOLDER	1	
	42	RMN1130	HOLDER (OLED)	1	
	43	RMQ2367	PICT WINDOW CUSHION	2	
	44	RMQ2582	POWER SW TAPE	1	
	45	RMQ2491	HEX SPACER	1	
	46	RMQ2513	REAR GASKET	2	
	47	RMQ2514	AMP GASKET	1	
	48	RMQ2515	HP PCB GASKET	2	
	49	RMQ2537	EPT SEALER A	1	
	50	RMV0451	HEAT COVER	1	
	51	RMV0458	LIGHT BLIND COVER	1	
	52	RMV0459	COVER MECHA SHIELD	1	
	53	RMV0460	COVER WIRE	1	
	55	RSC1317	MAIN SHIELD	1	
	56	RSC1318	MECHA SHIELD	1	
	57	RSC1319	SHIELD L	1	
	58	RSC1320	SHIELD R	1	
	59	RHD26046	SCREW	68	
	60	RHD30119-K	SCREW	12	
	61	VHD1224-1A	SCREW	9	
	62	XTB3+14JFJK	SCREW	3	
	63	XTW26+8SFJK	SCREW	5	
	64	XYN3+C8FJK	SCREW	7	
	65	XYN3+F5FN	SCREW	1	
	67	RHDX261002	SCREW	1	
	68	L5HAAYY00005	DISPLAY MODULE	1	
	69	N1CYYYY00019	DIPOLE ANTENNA	1	
	70	N1CYYYY00020	DIPOLE ANTENNA	1	
	71	RKM0770A-W	BT ANGLE	1	
	72	RKM0770B-W	POWER PCB SUPPORT	1	
	73	RKM0770C-W	MECHA SUPPORT A	1	
	74	RKM0770D-W	MECHA SUPPORT B	1	
	75	RKM0770E-W	SW PCB SUPPORT	1	
	76	RKM0770F-W	DAMPER SUPPORT	1	
	77	RKM0770G-W	SPRING SUPPORT	1	
	78	RGK2623C-K	ANTENNA ANGLE L	1	
	79	RGK2623D-K	ANTENNA ANGLE R	1	
	80	RGK2623A-K	PCB SPACER	2	
	81	RKM0770-W1	MID CABINET	1	
	82	RMQ2563	SCREW SPACER	1	
	85	RGK2623B-K	POWER SW BASE	1	
			TRAVERSE DECK		
⚠	301	RAE5307Z-V	TRAVERSE UNIT	1	
	302	RMQ2020-1J	MECHA CHASSIS	1	
	303	RMG0730-G	FLOATING RUBBER	4	
	304	RME0109-1	FLOATING SPRING	4	
	305	RMS0757-1	FIXED PIN	4	
	306	XTN2+6GFJ	SCREW	2	

12.7.2. SC-C500EB/EG/GN/PP

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			PACKING MATERIALS		
	P1	SPG0521-1	PACKING CASE	1	EG
	P1	SPG0522	PACKING CASE	1	EB
	P1	SPG0524	PACKING CASE	1	PP
	P1	SPG0525	PACKING CASE	1	GN
	P2	SPN0375-2	MAINSET CUSHION	1	
	P3	SPH0019	PE SHEET	1	
	P4	SPN0444	SIDE PAD	2	
			ACCESSORIES		
⚠	A1	K2CG3YY00191	AC CORD	1	PP
⚠	A1	K2CK3YY00083	AC CORD	1	GN
⚠	A1	K2CM3YY00041	AC CORD	1	EG
⚠	A1	K2CT3YY00081	AC CORD	1	EB
	A2	N2QAYA000114	REMOTE CONTROL	1	
⚠	A3	SQT1065	OI (Sp/Sw/Da/Fi)	1	EG
⚠	A3	SQT1066	OI (En)	1	EB/GN
⚠	A3	SQT1068	OI (En/Cf)	1	PP
⚠	A3	SQT1113	OI (Ge/Fr/It/Du)	1	EG
	A4	RFA3668	SPEAKER CORD	1	
	A6	SFM0118	DEMO SONG CD	1	

12.7.3. SU-C550EB/EG

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			CABINET AND CHASSIS		
	1	REE2120	30P FFC (OLED - MAIN)	1	
	2	REE2122	6P FFC (IR - OLED)	1	
	3	REE2123-1	20P FFC (TOUCH SW - OLED)	1	
	4	REE2124	24P FFC (CD-MAIN)	1	
	5	REE2125	6P FFC (CD ILLUMINATION - MAIN)	1	
	6	REE2126	8P FFC (MAIN-BT CONNECT)	1	
	7	REE2127	30P FFC (MAIN-AMP)	1	
	8	REE2128	40P FFC (MAIN-AMP)	1	
	9	REE2133	6P FFC (FOOT ILLUMINATION - OLED)	1	
	10	REX1749	4P SHIELDED WIRE (USB-MAIN)	1	
	11	REX1891	8P WIRE (USB-MAIN)	1	
	12	REX1894	3P WIRE (INTERLOCK SW-MAIN)	1	
	13	REX1893	3P WIRE (VOLUME SW - OLED)	1	
	14	REX1889	5P WIRE (HEADPHONE - AMP)	1	
	15	REX1888	15P WIRE (SMPS-AMP)	1	
	16	REX1892	5P WIRE (POWER SW - OLED)	1	
	17	RYK1921-S	FRONT PANEL UNIT	1	
⚠	18	RGG0277-S	TOP AL PANEL	1	
⚠	19	RGG0278-S	SIDE AL PANEL L	1	
⚠	20	RGG0279-S	SIDE AL PANEL R	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	21	RGK2620-S	SCREW CAP	1	
	22	RGK2621-K	LID ORNAMENT	1	
	23	RGK2624-S	POWER SW COVER	1	
	25	RGL0814-Q	LIGHT GUIDE	1	
	26	RGL0824-W	CD LIGHTING GUIDE	1	
	27	RGL0825-W	PICT LIGHT GUIDE	1	
	28	RGL0838-W	FOOT LIGHT GUIDE	1	
⚠	29	RGR0483B-A	REAR PANEL	1	
	30	RKAX0042-K	RUBBER LEG	4	
	31	RKF0988-Q1	CD LID	1	
	32	RDG0670	DAMPER	1	
	33	RMA2538	PCB ANGLE	1	
	34	RXJ0054	SHAFT PLATE UNIT	1	
	35	RMB1000	SPRING	1	
	36	RMG1033-W	LID RUBBER A	3	
	37	RMG1051-K	WIFI CUSHION	1	
	38	RMG1056-K	CUSHION	2	
	39	RMK0908	BOTTOM CHASSIS	1	
	40	RMM0319	RAIL HOLDER	1	
	41	RMM0320-1	GUIDE HOLDER	1	
	42	RMN1130	HOLDER(OLED)	1	
	43	RMQ2367	PICT WINDOW CUSHION	2	
	44	RMQ2582	POWER SW TAPE	1	
	45	RMQ2491	HEX SPACER	1	
	46	RMQ2513	REAR GASKET	2	
	47	RMQ2514	AMP GASKET	1	
	48	RMQ2515	HP PCB GASKET	2	
	49	RMQ2537	EPT SEALER A	1	
	50	RMV0451	HEAT COVER	1	
	51	RMV0458	LIGHT BLIND COVER	1	
	52	RMV0459	COVER MECHA SHIELD	1	
	53	RMV0460	COVER WIRE	1	
	55	RSC1317	MAIN SHIELD	1	
	56	RSC1318	MECHA SHIELD	1	
	57	RSC1319	SHIELD L	1	
	58	RSC1320	SHIELD R	1	
	59	RHD26046	SCREW	68	
	60	RHD30119-K	SCREW	9	
	61	VHD1224-1A	SCREW	9	
	62	XTB3+14JFJK	SCREW	3	
	63	XTW26+8SFJK	SCREW	5	
	64	XYN3+C8FJK	SCREW	7	
	65	XYN3+F5FN	SCREW	1	
	67	RHDX261002	SCREW	1	
	68	L5HAAYY00005	DISPLAY MODULE	1	
	69	N1CYYYY00019	DIPOLE ANTENNA	1	
	70	N1CYYYY00020	DIPOLE ANTENNA	1	
	71	RKM0770A-W	BT ANGLE	1	
	72	RKM0770B-W	POWER PCB SUPPORT	1	
	73	RKM0770C-W	MECHA SUPPORT A	1	
	74	RKM0770D-W	MECHA SUPPORT B	1	
	75	RKM0770E-W	SW PCB SUPPORT	1	
	76	RKM0770F-W	DAMPER SUPPORT	1	
	77	RKM0770G-W	SPRING SUPPORT	1	
	78	RGK2623C-K	ANTENNA ANGLE L	1	
	79	RGK2623D-K	ANTENNA ANGLE R	1	
	80	RGK2623A-K	PCB SPACER	2	
	81	RKM0770-W1	MID CABINET	1	
	82	RMQ2563	SCREW SPACER	1	
	83	RMQ2200	PC SHEET	1	
	85	RGK2623B-K	POWER SW BASE	1	
			TRAVERSE DECK		
⚠	301	RAE5307Z-V	TRAVERSE UNIT	1	
	302	RMQ2020-1J	MECHA CHASSIS	1	
	303	RMG0730-G	FLOATING RUBBER	4	
	304	RME0109-1	FLOATING SPRING	4	
	305	RMS0757-1	FIXED PIN	4	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	306	XTN2+6GFJ	SCREW	2	
			PACKING MATERIALS		
	P1	SPG0526	PACKING CASE	1	EG
	P1	SPG0527	PACKING CASE	1	EB
	P2	SPN0375-2	MAINSET CUSHION	1	
	P3	SPH0019	PE SHEET	1	
	P4	SPN0444	SIDE PAD	2	
	P5	RPN2767	BOTTOM PAD	1	
			ACCESSORIES		
⚠	A1	K2CM3YY00041	AC CORD	1	EG
⚠	A1	K2CT3YY00081	AC CORD	1	EB
	A2	N2QAYA000114	REMOTE CONTROL	1	
⚠	A3	SQT1114	OI (En)	1	EB
⚠	A3	SQT1115	OI (Ge/Fr/It/Du)	1	EG
⚠	A3	SQT1116	OI (Sp/Sw/Da/Fi)	1	EG
	A6	SFM0118	DEMO SONG CD	1	

12.8. 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 PAVCJM unless indicated likewise.
- Parts mentioned [SPG] in the Remarks column are supplied by JAPAN.

E.S.D. standards for Electrostatically Sensitive Devices, refer to "PREVENTION OF ELECTROSTATIC DISCHARGE (ESD) TO ELECTROSTATIC SENSITIVE (ES) DEVICES" section.

12.8.1. SU-C500EB/EG/GN/PP

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			PRINTED CIRCUIT BOARDS		
	PCB1	SEP0546AD	MAIN P.C.B	1	PP
	PCB1	SEP0546AC	MAIN P.C.B	1	GN
	PCB1	SEP0546AA	MAIN P.C.B	1	EG
	PCB1	SEP0546AB	MAIN P.C.B	1	EB
	PCB2	SEP0547AA	AMP P.C.B	1	
	PCB3	SEP0550AA	TOUCH SW P.C.B	1	
⚠	PCB4	SEP0548AB	SMPS P.C.B	1	PP
⚠	PCB4	SEP0548AA	SMPS P.C.B	1	EB/EG/GN
	PCB5	SEP0549AA	OLED P.C.B	1	
	PCB6	SEP0551AA-S	USB P.C.B	1	
	PCB7	SEP0552AA	HEADPHONE P.C.B	1	
	PCB8	SEP0553AA	POWER SW P.C.B	1	
	PCB9	SEP0556AA	INTERLOCK SW P.C.B	1	
	PCB10	SEP0557AA	VOLUME SW P.C.B	1	
	PCB11	SEP0558AA	IR P.C.B	1	
	PCB12	SEP0634AA	CD ILLUMINATION P.C.B	1	
	PCB13	SEP0635AA	FOOT ILLUMINATION P.C.B	1	
	PCB14	SEP0653AA	BT CONNECT P.C.B	1	
	PCB15	REP5057A	CD P.C.B	1	
	PCB16	SFKZUC500EAA	WIFI MODULE	1	
			FUSES		
⚠	F1	K5G312Y00007	FUSE	1	
⚠	F2	K5G202Y00006	FUSE	1	
⚠	IP7001	ERBRE1R50V	FUSE	1	

12.8.2. SU-C550EB/EG

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			PRINTED CIRCUIT BOARDS		
	PCB1	SEP0546AF	MAIN P.C.B	1	EG
	PCB1	SEP0546AG	MAIN P.C.B	1	EB
	PCB2	SEP0547AB	AMP P.C.B	1	
	PCB3	SEP0550AA	TOUCH SW P.C.B	1	
⚠	PCB4	SEP0548AA	SMPS P.C.B	1	
	PCB5	SEP0549AA	OLED P.C.B	1	
	PCB6	SEP0551AA-S	USB P.C.B	1	
	PCB7	SEP0552AA	HEADPHONE P.C.B	1	
	PCB8	SEP0553AA	POWER SW P.C.B	1	
	PCB9	SEP0556AA	INTERLOCK SW P.C.B	1	
	PCB10	SEP0557AA	VOLUME SW P.C.B	1	
	PCB11	SEP0558AA	IR P.C.B	1	
	PCB12	SEP0634AA	CD ILLUMINATION P.C.B	1	
	PCB13	SEP0635AA	FOOT ILLUMINATION P.C.B	1	
	PCB14	SEP0653AA	BT CONNECT P.C.B	1	
	PCB15	REP5057A	CD P.C.B	1	
	PCB16	SFKZUC500EAA	WIFI MODULE	1	
			FUSES		

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
⚠	F1	K5G312Y00007	FUSE	1	
⚠	F2	K5G202Y00006	FUSE	1	
⚠	IP7001	ERBRE1R50V	FUSE	1	

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