

Service Manual

Compact Stereo System

Model No. **SC-HC58P**
SC-HC58PC

Product Color: (K)...Black Type



⚠ WARNING

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

IMPORTANT SAFETY NOTICE

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

TABLE OF CONTENTS

| | PAGE | | PAGE |
|--|----------|--|-----------|
| 1 Safety Precautions ----- | 3 | 2.2. Precaution of Laser Diode ----- | 7 |
| 1.1. General Guidelines----- | 3 | 2.3. Service caution based on Legal restrictions ----- | 8 |
| 1.2. Before Repair and Adjustment ----- | 4 | 2.4. Handling Precaution for Traverse Unit----- | 9 |
| 1.3. Protection Circuitry----- | 4 | 3 Service Navigation ----- | 10 |
| 1.4. Caution For Fuse Replacement----- | 4 | 3.1. Service Information ----- | 10 |
| 1.5. Safety Part Information----- | 5 | 3.2. AirPlay Operation ----- | 10 |
| 2 Warning ----- | 6 | 3.3. AirPlay Software update----- | 13 |
| 2.1. Prevention of Electrostatic Discharge (ESD) to Electrostatically Sensitive (ES) Devices----- | 6 | 3.4. Easy connect (Docking) ----- | 14 |
| | | 4 Specifications ----- | 16 |

Panasonic®

© Panasonic Corporation 2013. All rights reserved.
Unauthorized copying and distribution is a violation of law.

| | | | |
|--|-----------|--|------------|
| 4.1. Others (Licenses) ----- | 17 | 11.34. Disassembly of Front Speaker (SP2)----- | 95 |
| 5 General/Introduction ----- | 18 | 11.35. Disassembly of Passive Radiator Unit (SP3 & SP4)----- | 97 |
| 5.1. Inserting media ----- | 18 | 12 Service Position----- | 98 |
| 5.2. Media playback operations ----- | 19 | 12.1. Checking & Repairing of AirPlay Connect P.C.B. ----- | 98 |
| 5.3. AirPlay operations----- | 20 | 12.2. Checking & Repairing of SMPS P.C.B.----- | 99 |
| 5.4. Bluetooth® operations ----- | 21 | 12.3. Checking & Repairing of Panel P.C.B. ----- | 101 |
| 6 Location of Controls and Components----- | 22 | 12.4. Checking & Repairing of CD Servo P.C.B. ----- | 102 |
| 6.1. Main Unit & Remote Control Key Button Operations ----- | 22 | 12.5. Checking & Repairing of Main P.C.B. (Side B) -- | 105 |
| 7 Installation Instructions----- | 23 | 12.6. Checking & Repairing of Main P.C.B. (Side A) -- | 105 |
| 7.1. Connections ----- | 23 | 13 Block Diagram----- | 109 |
| 8 Service Mode ----- | 24 | 13.1. SERVO & SYSTEM CONTROL (1/2) BLOCK DIAGRAM ----- | 109 |
| 8.1. Self Diagnostic Mode----- | 24 | 13.2. SERVO & SYSTEM CONTROL (2/2) BLOCK DIAGRAM ----- | 110 |
| 8.2. Self Diagnostic Function Error Code ----- | 26 | 13.3. IC TERMINAL CHART ----- | 111 |
| 8.3. Doctor Mode Table----- | 28 | 13.4. AUDIO BLOCK DIAGRAM ----- | 112 |
| 8.4. Sliding Door Operation ----- | 35 | 13.5. POWER SUPPLY (1/2) BLOCK DIAGRAM----- | 113 |
| 8.5. Wi-Fi trial demo mode----- | 36 | 13.6. POWER SUPPLY (2/2) BLOCK DIAGRAM----- | 114 |
| 9 Troubleshooting Guide----- | 37 | 14 Wiring Connection Diagram ----- | 115 |
| 9.1. Setting up to AirPlay----- | 37 | 15 Schematic Diagram ----- | 117 |
| 10 Service Fixture & Tools ----- | 39 | 15.1. Schematic Diagram Notes ----- | 117 |
| 11 Disassembly and Assembly Instructions----- | 40 | 15.2. CD SERVO CIRCUIT (1/2)----- | 119 |
| 11.1. Disassembly flow chart ----- | 41 | 15.3. CD SERVO CIRCUIT (2/2)----- | 120 |
| 11.2. Types of Screws----- | 42 | 15.4. MAIN (MICON) CIRCUIT (1/4) ----- | 121 |
| 11.3. Main Parts Location Diagram ----- | 42 | 15.5. MAIN (MICON) CIRCUIT (2/4) ----- | 122 |
| 11.4. Disassembly of Base Stand Assembly ----- | 43 | 15.6. MAIN (MICON) CIRCUIT (3/4) ----- | 123 |
| 11.5. Replacement of Door Assembly----- | 44 | 15.7. MAIN (MICON) CIRCUIT (4/4) ----- | 124 |
| 11.6. Replacement of Front Ornament Unit (L) & (R)--- | 46 | 15.8. MAIN (SUPPLY) CIRCUIT (1/2) ----- | 125 |
| 11.7. Disassembly of Front Panel Block----- | 47 | 15.9. MAIN (SUPPLY) CIRCUIT (2/2) ----- | 126 |
| 11.8. Replacement of iPhone Block ----- | 49 | 15.10. MAIN (TUNER) CIRCUIT----- | 127 |
| 11.9. Disassembly of Interlock Switch P.C.B.----- | 56 | 15.11. REMOTE SENSOR CIRCUIT ----- | 128 |
| 11.10. Disassembly of Remote Sensor P.C.B.----- | 58 | 15.12. PANEL, INTERLOCK SWITCH & MOTOR CIRCUIT ----- | 129 |
| 11.11. Replacement of Gear Box Assembly ----- | 61 | 15.13. BUTTON CIRCUIT ----- | 130 |
| 11.12. Disassembly of Motor P.C.B. ----- | 63 | 15.14. SMPS CIRCUIT----- | 131 |
| 11.13. Disassembly of Belt & Pulley Gear ----- | 64 | 15.15. AirPlay CONNECT & AirPlay ANTENNA CIRCUIT ----- | 132 |
| 11.14. Disassembly of Motor Assembly ----- | 64 | 16 Printed Circuit Board----- | 133 |
| 11.15. Disassembly of Centering Spring & Centering Stopper----- | 65 | 16.1. CD SERVO P.C.B.----- | 133 |
| 11.16. Disassembly of Lever Spring, Trigger Lever & Driver Gear A ----- | 67 | 16.2. MAIN P.C.B. (Side A) ----- | 134 |
| 11.17. Disassembly of SW Lever, Relay Gear & Driver Gear B ----- | 68 | 16.3. MAIN P.C.B. (Side B) ----- | 135 |
| 11.18. Disassembly of Shutter & Shutter Spring ----- | 70 | 16.4. REMOTE SENSOR, PANEL, INTERLOCK SWITCH & MOTOR P.C.B.----- | 136 |
| 11.19. Disassembly of Upper Guide Rail & Top Ornament----- | 71 | 16.5. BUTTON P.C.B. ----- | 137 |
| 11.20. Disassembly of Bottom Ornament----- | 72 | 16.6. SMPS, AirPlay CONNECTOR & AirPlay ANTENNA P.C.B. ----- | 138 |
| 11.21. Disassembly of Lower Guide Rail----- | 73 | 17 Appendix Information of Schematic Diagram ----- | 139 |
| 11.22. Disassembly of AirPlay Connect P.C.B. & AirPlay Module P.C.B. ----- | 74 | 17.1. Voltage Measurement & Waveform Chart----- | 139 |
| 11.23. Disassembly of SMPS P.C.B. ----- | 76 | 17.2. Illustration of IC's, Transistors and Diodes ----- | 146 |
| 11.24. Replacement of Diode (D1700) ----- | 80 | 17.3. Terminal Function of IC's ----- | 147 |
| 11.25. Replacement of Switching Regulator IC (IC1700) ----- | 82 | 18 Exploded View and Replacement Parts List----- | 149 |
| 11.26. Disassembly of Panel P.C.B. & Button Ornament Unit ----- | 84 | 18.1. Exploded View and Mechanical replacement Parts List----- | 149 |
| 11.27. Disassembly of Button P.C.B.----- | 85 | 18.2. Electrical Replacement Parts List ----- | 155 |
| 11.28. Disassembly of Button Ornament----- | 86 | | |
| 11.29. Disassembly of CD Mechanism ----- | 86 | | |
| 11.30. Disassembly of CD Servo P.C.B.----- | 87 | | |
| 11.31. Disassembly of Jack Lid----- | 89 | | |
| 11.32. Disassembly of Main P.C.B. ----- | 91 | | |
| 11.33. Disassembly of Front Speaker (SP1) ----- | 93 | | |

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 \triangle 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.

1.1.1. Leakage Current Cold Check

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

1.1.2. Leakage Current Hot Check

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a $1.5k\Omega$, 10 watts resistor, in parallel with a $0.15\mu F$ capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1-1.
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.

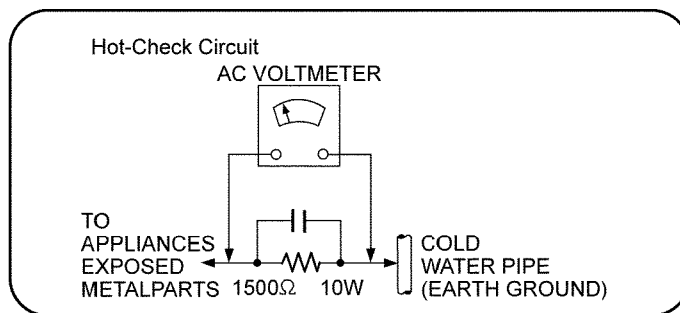


Figure. 1-1

1.2. Before Repair and Adjustment

Disconnect AC power, discharge unit AC Capacitors (C1702, C1710, C1725, C1727, and C1728) through a 10W, 1W resistor to ground.

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

- Current consumption at AC 120V, at 60Hz in NO SIGNAL mode (at volume min in FM Tuner mode) should be ~200 mA.

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 Fuse Replacement

CAUTION:

Replace with the same type fuse:

(Manufacturer: Skygate, Type: SCT, F1, T2A, 250V)

1.5. Safety Part 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.

| Safety | Ref. No. | Part No. | Part Name & Description | Remarks |
|--------|----------|--------------|-------------------------|---------|
| ⚠ | 50 | RFKHHC58P-K | REAR CABINET ASS'Y | P |
| ⚠ | 50 | RFKHHC58PC-K | REAR CABINET ASS'Y | PC |
| ⚠ | 64 | RMV0410 | SMPS INSULATOR SHEET C | |
| ⚠ | 65 | RMV0415 | SMPS INSULATOR SHEET B | |
| ⚠ | 68 | RSC1197A | SMPS BRACKET | |
| ⚠ | 69 | RSC1198 | SMPS SHIELD PLATE | |
| ⚠ | 301 | RAE5301Z-V | TRAVERSE UNIT | |
| ⚠ | A1 | N2QAYC000082 | REMOTE CONTROL | |
| ⚠ | A2 | K2CB2CB00022 | AC CORD | |
| ⚠ | A3 | RQT9754-P | O/I BOOK (En) | |
| ⚠ | A3 | RQT9755-C | O/I BOOK (Cf) | PC |
| ⚠ | C1702 | F0CAF224A105 | 0.22uF | |
| ⚠ | C1710 | F1BAF471A013 | 470pF | |
| ⚠ | C1725 | F0CAF104A105 | 0.1uF | |
| ⚠ | C1727 | F1BAF1020020 | 1000pF | |
| ⚠ | C1728 | F1BAF1020020 | 1000pF | |
| ⚠ | F1 | K5G202Y00006 | FUSE | |
| ⚠ | L1702 | G0B922G00002 | LINE FILTER | |
| ⚠ | P1751 | K2AB2B000007 | AC INLET | |
| ⚠ | PC1702 | B3PBA0000579 | PHOTO COUPLER | |
| ⚠ | PCB5 | REP4871BA | SMPS P.C.B. | (RTL) |
| ⚠ | R1724 | ERJ12YJ105U | 1M 1/2W | |
| ⚠ | R1726 | ERJ12YJ105U | 1M 1/2W | |
| ⚠ | T1700 | G4DYZ0000071 | TRANSFORMER | |
| ⚠ | Z1752 | ERZV10V511CS | ZNR | (E.S.D) |

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).

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.

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:

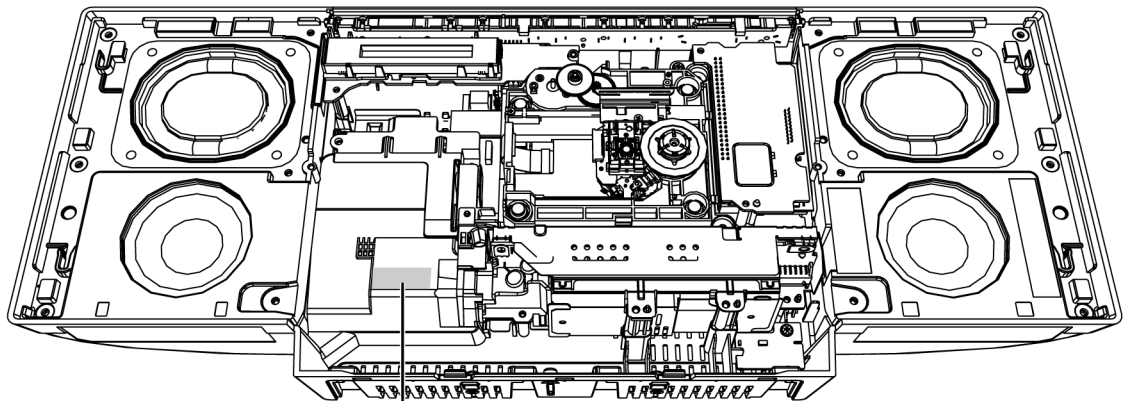
This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pickup lens.

Wavelength: 790 nm (CD)

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

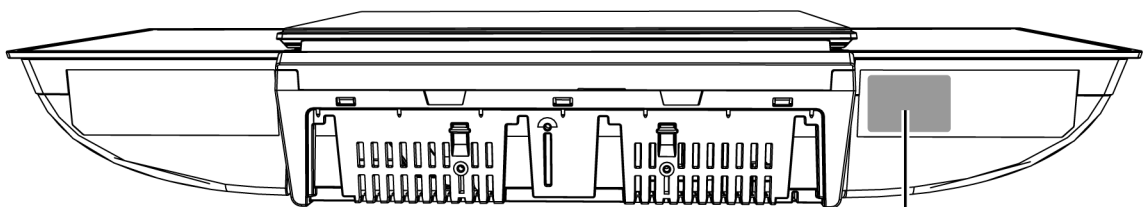
Laser radiation from the pickup unit is safety level, but be sure the followings:

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



CAUTION - VISIBLE AND
INVISIBLE LASER RADIATION
WHEN OPEN AND
INTERLOCK DEFEATED.
DO NOT STARE INTO BEAM.
FDA 21CFR / CLASS II (IIa)

(Inside of product)
(For P only)



(Bottom View)

This device complies with Part 15
of the FCC Rules. Operation is
subject to the following two
conditions: (1) This device may not
cause harmful interference, and
(2) this device must accept any
interference received, including
interference that may cause
undesired operation.

2.3. Service caution based on Legal restrictions

2.3.1. General description about Lead Free Solder (PbF)

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

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

Definition of PCB Lead Free Solder being used

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

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

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

Recommended Lead Free Solder (Service Parts Route.)

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

Note

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

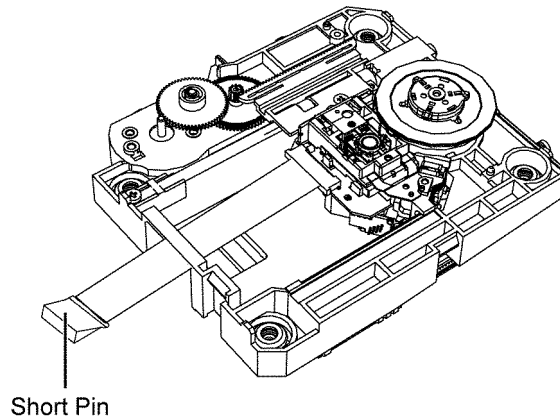
2.4. Handling Precaution for Traverse Unit

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

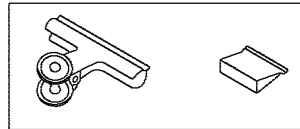
The laser diode in the optical pickup unit may be damaged due to electrostatic discharge generating from clothes or human body. Special care must be taken avoid caution to electrostatic discharge damage when servicing the laser diode.

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 FPC is connected to the new optical pickup unit. After replacing the optical pickup unit and connecting the flexible cable, cut off the antistatic FPC.



[Caution]

Ground the cable with a clip or a short pin.



Clip or Short Pin

2.4.2. Grounding for electrostatic breakdown prevention

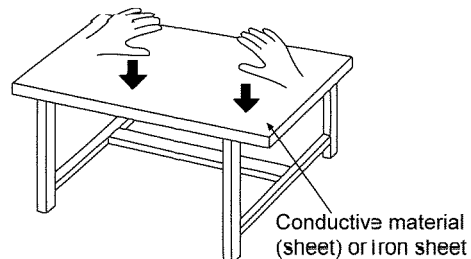
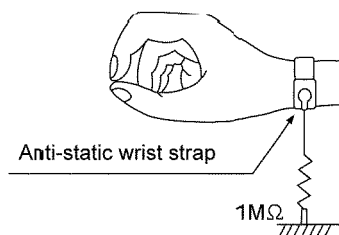
Some devices such as the CD player use the optical pickup (laser diode) and the optical pickup will be damaged by static electricity in the working environment. Proceed servicing works under the working environment where grounding works is completed.

2.4.2.1. Worktable grounding

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

2.4.2.2. Human body grounding

1. Use the anti-static wrist strap to discharge the static electricity form your body.



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.

- **Micro-processor:**

- 1) The following components are supplied as an assembled part.
 - Micro-processor IC, (IC6002) (RFKWMHC58PM)

3.2. AirPlay Operation

3.2.1. Outline

This function is that the sound in iTunes on PC or iPhone/iPod touch (describe as iPhone) is output from main set speakers through wireless LAN. Selecting a song and or selecting speakers are done on iTunes or iPhone.

3.2.2. Operation buttons

This function can be operated by main set, remote controller and Stereo Remote also.

- [PLAY MODE], [OK], [UP], [DOWN].
 - Repeat or Shuffle mode can be set.
- [PLAY/PAUSE], [STOP], [F.SKIP], [R.SKIP].
 - Playback control can be done by main set, remote controller and Stereo Remote.

3.2.3. Switch Selector

- By playback requirement from iTunes or iPhone, it will change selector to AirPlay.
- It will not change selector to AirPlay by main set or remote control.
(Because operation of song selection cannot be done from main set and need operations on iTunes or iPhone.)
- During power on, it will change selector to AirPlay by playback requirement not depending on selector.
If CD or USB or iPod is playback condition, it stops playback and change selector to AirPlay.
- During power off and if NETWORK STANDBY setting is on, by playback requirement, it will power on and change selector to AirPlay. If NETWORK STANDBY setting is off, it will not respond for playback requirement.
- During AirPlay authentication, it inhibits to change selector. If press selector button during this time, it accepts the operation and shows "WAIT" on FL, after that it proceeds selector change.

3.2.4. Multiple Speakers

- If the source is on iTunes, this song can be output from multiple speakers.
However, only one song can be played at the same time.
- If the source is on iPhone, it can select only one speaker. (iPhone behavior)
- It cannot select to same speaker from more than 2 devices (iTunes/iPhone) at the same time. While the main unit being connected with device A, the main unit is received AirPlay from another device B, and then the unit will be connected device B.

3.2.5. FL display (During AirPlay)

1. During AirPlay selector, FL display is below always.



- It will not show song title and album title and artist name, because the segment on display device is union jack type and it cannot show those titles correctly.

3.2.6. Volume control

- If change speaker volume on iTunes or iPhone side, main set volume will be changed.
And if change volume on main set side, the volume level on iTunes or iPhone will be changed.
- If volume level is changed through AirPlay, main set will show the volume level on FL display. The volume display is same as the case of operation on main set.
- When change selector to AirPlay, if the volume level through AirPlay is different from volume level on main set, it will show volume level on FL display. The volume display is same as the case of operation on main set.
- If volume is changed by main set button or remote control during AirPlay, the volume level is reflected to iTunes or iPhone side.
If main set is in muting condition, it releases muting by volume change through AirPlay. (same as operation on main set)
- If volume is changed by main set button or remote control during other than AirPlay, the volume level is not reflected to iTunes or iPhone side. (It cannot be linked)

3.2.7. LED related to AirPlay

Related to AirPlay, there are below 2 kind of LED.

Wireless LAN connection status (2 color LED)

- Depending on network condition and main set condition during connecting to network, it will control the LED as below.
- During power on, it will control the LED (lighting up/blinking) as below.
- During power off, it will turn the LED off. (including iPod charging and standby with Network Standby on)
- After cold start (no network setting), it will not light up both of colors. After it success to connect (SUCCESS display) by network connection (WPS push button, WPS pin code, manual setting), it will start to control LED as below. Once success to connect, it will continue controlling LED until cold start.

| Condition | LED control |
|---|---|
| Connecting to network (Not depending on selector) | Blue : Solid |
| Not connection to network under AirPlay selector | Red : Blink (ON: 0.5s/OFF: 0.5s) |
| Not connection to network under other than AirPlay selector | Light off |
| Firmware error | Red: Fast blink (ON: 0.25s/OFF: 0.25s) |
| During WPS push button mode (until start connection process) | Blue : Slow blink (ON: 1s/OFF: 1s) |
| During WPS pin code mode (until start connection process) | Purple (Blue + Red) : Blink (ON: 0.5s/OFF: 0.5s) |
| During Net Setup mode (until start connection process) | Purple (Blue + Red) : Slow blink (ON: 1s/OFF: 1s) |
| Processing network connection | Blue : Blink (ON: 0.5s/OFF: 0.5s) |

Connecting to network: Condition that connected to wireless LAN and allocated IP address.

3.2.8. Playback control

- Playback control for AirPlay can be done by main set, remote controller and Stereo Remote.
Below is detail.

- [PLAY/PAUSE] : Play, Pause operation.
- [STOP] : Stop operation
- [F.SKIP] : Forward skip operation
- [R.SKIP] : Reverse skip operation

Actual behavior is depending on iOS and iTunes.

3.2.9. Repeat/Shuffle setting

- Repeat/Shuffle setting can be done by remote controller and Stereo Remote.

When press [PLAY MODE] button, it shows as below on FL.

If keep "REPEAT" or "SHUFFLE" display without any operation, it goes back to normal display.

- [REPEAT] → [SHUFFLE] → [AirPlay] (normal display) stands for blank.

3.2.9.1. Repeat setting

- When press [OK] button during "REPEAT" display, it blinks "REPEAT" display and it becomes a condition can be change repeat mode. Under "REPEAT" blinking, leave for 20 seconds without any operation or press [OK], it goes back to normal display.
- When press [UP] or [DOWN] button during "REPEAT" blinking, it shows "REPEAT" (solid display) for 2 seconds and change repeat mode 1 step. (In case of iOS, repeat mode is changed as OFF → 1 REPEAT → ALL REPEAT.) The behavior when press [DOWN] becomes same as [UP] button.

HC main set cannot get repeat setting on iPod, so it doesn't show repeat mode on FL and doesn't light on repeat icon.

3.2.9.2. Shuffle setting

- When press [OK] button during "SHUFFLE" display, it blinks "SHUFFLE" display and it becomes a condition can be change shuffle setting. Under "SHUFFLE" blinking, leave for 20 seconds without any operation or press [OK], it goes back to normal display.
- When press [UP] or [DOWN] button during "SHUFFLE" blinking, it shows "SHUFFLE" (solid display) for 2 seconds and change shuffle setting. (In case of iOS, shuffle mode is changed as OFF → ON.) The behavior when press [DOWN] becomes same as [UP] button.

HC main set cannot get shuffle setting on iPod, so it doesn't show shuffle mode on FL and doesn't light on random icon.

3.3. AirPlay Software update

Occasionally, Panasonic may release updated software for this unit that may add or improve the way a feature operates. These updates are available free of charge.

Preparation

- Turn the unit on.
- Connect this unit to the wireless network.
 - Make sure that the wireless network is connected to the Internet.
 - If “D.CONNECT” is set to “ON”, change the setting to “OFF” and connect this unit to a wireless network that is connected to the Internet.

- 1** Press [SETUP] repeatedly to select “SW UPDATE” and then press [OK].
- 2** Press [▲, ▼] to select “UPDATE? Y” and then press [OK] to start the update.

DO NOT DISCONNECT the AC power supply cord while one of the following messages is displayed.

- “LINKING”, “UPDATING” or “□□□%”
 (“□” stands for a number.)
- During the update process, no other operations can be performed.

- 3** When the update has finished successfully, “SUCCESS” is displayed.

- 4** Disconnect the AC power supply cord and reconnect it after 3 minutes.

- **Downloading will require several minutes. It may take longer or may not work properly depending on the connection environment.**

■ Checking the software version

- 1** Press [SETUP] repeatedly to select “SW VER.” and then press [OK].
 - ↳ The version of the installed software is displayed.
- 2** Press [OK] to exit.

3.4. Easy connect (Docking)

3.4.1. Outline

- Use "Wi-Fi Network Login Sharing" protocol, send network setting information through iPod dock.

3.4.2. Operation buttons

- [Wi-Fi Connect] button on main set, and [OK] button on iPhone screen.
To prevent a mistake of operation, long pressing for more than 3 seconds is needed to accept the operation.

3.4.3. Supported iPod model

- iPhone, iPod touch, iPad iOS version 5.0 or later

3.4.4. Operation procedure

- Operation procedure is following
 1. Connect iPhone to your Wi-Fi network.
 2. Connect the iPhone to dock connector or USB jack on main set.
 3. Press and hold [Wi-Fi Connect] button on main set for more than 3 seconds.
At this time, the set becomes Easy connect (dock) mode. "CONNECTING WI-FI" is scrolling on FL display.
And pop-up message "Transfer Wi-Fi setting? [OK][CANCEL]" (studying message) is displayed on iPhone screen.
* About the exact message on iPhone screen, refer to "01_05_Message_list.doc".
 4. Tap [OK] button on iPhone screen.
If the set can detect OK operation on iPhone screen side, 'LINKING' is blinking on FL display. (ON: 0.5s, OFF: 0.5s).
* If the set cannot detect OK operation on iPhone screen, it exits the setting mode after 120 and change back to same condition before pressing [Wi-Fi connect] button. While exiting the mode, " WAIT " is blinking on FL.
If enter easy connect (dock) mode during initialization on AirPlay module, the indicator becomes as entering easy connect (dock) mode, but counter of time out starts after complete initialization.
* If the set cannot detect Cancel operation on iPhone screen, it exits the setting mode and change back to same condition before pressing [Wi-Fi connect] button. While exiting the mode, " WAIT " is blinking on FL
 5. If success to connect, 'SUCCESS' is shown on FL display. If fail to connect, it shows 'FAIL' on FL display.
 6. Press [Wi-Fi Connect] button or [OK] on remote control to exit. It clear above FL display and change back to same condition before pressing [Wi-Fi Connect] button.
And if user do some operations bring changing FL display, it clear above FL display and it will do corresponding to the operation.
* Even though current is on above step 3 or 4, the process will be canceled by power off.
* At above step 5 (showing "SUCCESS" or "FAIL"), it releases muting.

User operation will be as following.

| HC58 FL display | Operation on HC58 side | Operation on iPhone side |
|------------------------------|---|---|
| [CD] Normal display | (Nil) | Connect iPhone to your Wi-Fi network. |
| [CD] Normal display | Connect the iPhone to dock connector or USB jack on main set. | (Nil) |
| [CD] Normal display | Long press [Wi-Fi Connect] | (Nil) |
| [CONNECTION] scroll | (Nil) * If it can detect tapping OK button on iPhone screen, goes to next. | Tap [OK] on main set. |
| [LINKING] blink | (Nil) * Goes to next, if success to connect. | (Nil) * Goes to next, if success to connect. |
| [SUCCESS] Success to connect | Press [Wi-Fi Connect] or [OK]. * Any keys are available, if set condition will be changed. | (Nil) |
| [CD] Normal display | (Nil) | (Nil) |

3.4.5. Condition to accept




- During power on, and iPod is connected either dock or USB, if long press [Wi-Fi Connect] for more than 3 seconds, it accepts this operation.
- It doesn't accept [Wi-Fi Connect] during power off. (including iPod charging and standby with network standby on.)
- It accepts [Wi-Fi Connect] operation not depending on selector.
- If press [Wi-Fi Connect] button during CD/iPod/USB playback or pause condition, CD/iPod/USB will stop and go to easy connect (dock) mode.
- If press [Wi-Fi Connect] in tuner/Bluetooth mode, mute the sound and goes to easy connect (dock) mode.
- If press [Wi-Fi Connect] during AirPlay playback condition, mute the sound and goes to easy connect (dock) mode.
- If press [Wi-Fi Connect] on the way of some setting, it exits the setting mode and goes to easy connect (dock) mode.
- If the iPhone is not connected to Wi-Fi network, FL show "SET WI-FI" and cancel the mode.
However, iOS5.* or some of iOS6 will show "NOT SUPPORTED". (Behavior of iOS), (iOS5.1, iOS5.1.1, iOS6(beta), and so on)
- If the iPod is unsupported model, FL scroll "NOT SUPPORTED" 3 times and cancel the mode.

3.4.6. LED condition

- Depending on set condition or network condition, it controls 2-color LED as following.

| Set condition | LED condition (solid/blink) |
|---|-----------------------------------|
| Not yet connected to network (factory reset condition) | Light off |
| During easy connect (dock) mode (until start connection process) | Light off |
| Processing network connection | Blue : Blink (ON: 0.5s/OFF: 0.5s) |
| Connecting to network | Blue : Solid |

3.4.7. FL display

| Set condition | FL display |
|---|--|
| During easy connect (dock) mode (until start connection process) | 『CONNECTIN』 ↓ (scroll) 『ONNECTING』 ↓ (scroll) . . . ↓ (scroll) 『ING WI-FI』 ↓ (scroll) . . . ↓ (scroll) 『I 』 ↓ (scroll) *Repeat continuously from the beginning |
| No Wi-Fi sending data | 『SET WI-FI』 |
| Not supported | 『NOT SUPPORTED』 Scroll 3 times |
| Processing network connection |  blink |
| Success to connect |  |
| Fail to connect |  |

4 Specifications

■ General

| | |
|-------------------------------------|---|
| Power consumption | 38 W |
| Power consumption in standby mode*1 | Approx. 0.1 W |
| Power consumption in standby mode | |
| (With the iPod dock open) | Approx. 0.4 W |
| (With "NET STNBY" set to "ON") | Approx. 6.3 W |
| Power supply | AC 120 V, 60 Hz |
| Dimensions (W x H x D) | 500 mm x 204 mm x 84 mm (19 11/16" x 8 1/32" x 3 5/16") (Depth without stand: 75 mm (3")) |
| Mass (weight) | Approx. 2.6 kg (5.7 lbs) |
| Operating temperature range | 0 °C to +40 °C (+32 °F to +104 °F) |
| Operating humidity range | 35% to 80 % RH (no condensation) |

■ Amplifier Section

Output power:

RMS Output Power Stereo Mode

| | |
|-----------------------------|---|
| Front Ch (both ch driven) | 20 W per channel (6 Ω), 1 kHz, 10% THD |
| Total RMS Stereo mode power | 40 W |

FTC Output Power Stereo mode

| | |
|-----------------------------|---|
| Front Ch (both ch driven) | 15 W per channel (6 Ω), 20 Hz to 20 kHz, 1 % THD |
| Total FTC stereo mode power | 30 W |

■ Tuner section

| | |
|---------------------------|--|
| Preset Memory | FM 30 stations |
| Frequency modulation (FM) | |
| Frequency range | 87.9 MHz to 107.9 MHz (200 kHz step) 87.5 MHz to 108.0 MHz (100 kHz step) |
| Antenna terminals | 75 Ω (unbalanced) |

■ Disc Section

Disc played [8 cm (3") or 12 cm (5")]

| | |
|---------------------|---------------------|
| Pick up | CD, CD-R/RW (CD-DA) |
| Wavelength | 790 nm (CD) |
| Audio output (Disc) | |
| Number of channels | 2 ch (FL, FR) |

■ Speaker System Section

| | |
|------------------|---|
| Type | 1 way, 1 speaker system (Passive Radiator) |
| Speaker unit(s) | |
| Full range | 6.5 cm (2 1/2") Cone type x 1 per channel |
| Passive Radiator | 8 cm (3 1/8") x 2 per channel |
| Impedance | 6 Ω |

■ Terminal Section

| | |
|------------------------|------------------------------|
| "IPOD_DOCK" connection | DC OUT 5 V, 1.0 A MAX |
| "IPOD_PORT" connection | DC OUT 5 V, 2.1 A MAX |
| Phone jack | |
| Terminal | Stereo, Ø 3.5 mm (1/8") jack |

■ Wi-Fi / AirPlay Section

| | |
|----------------|---------------|
| Wi-Fi | |
| WLAN Standards | IEEE802.11b/g |

Frequency Band

Security

WPS version

| |
|-------------------------------|
| 2.4 GHz band |
| WEP, WPA™, WPA2™ |
| Version 2.0 (WEP not support) |

■ Bluetooth Section

| | |
|---------------------------------|-------|
| Bluetooth® system specification | V 3.0 |
|---------------------------------|-------|

Wireless equipment classification

Class 2

Supported profiles

A2DP, AVRCP, GAVDP

Frequency band

2402 MHz to 2480 MHz
(Adaptive Frequency Hopping)

Driving distance

10 m (33 ft) Line of sight

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

4.1. Others (Licenses)



"Made for iPod", "Made for iPhone", and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance.

AirPlay, the AirPlay logo, iPad, iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.



The Wi-Fi CERTIFIED Logo is a certification mark of the Wi-Fi Alliance.

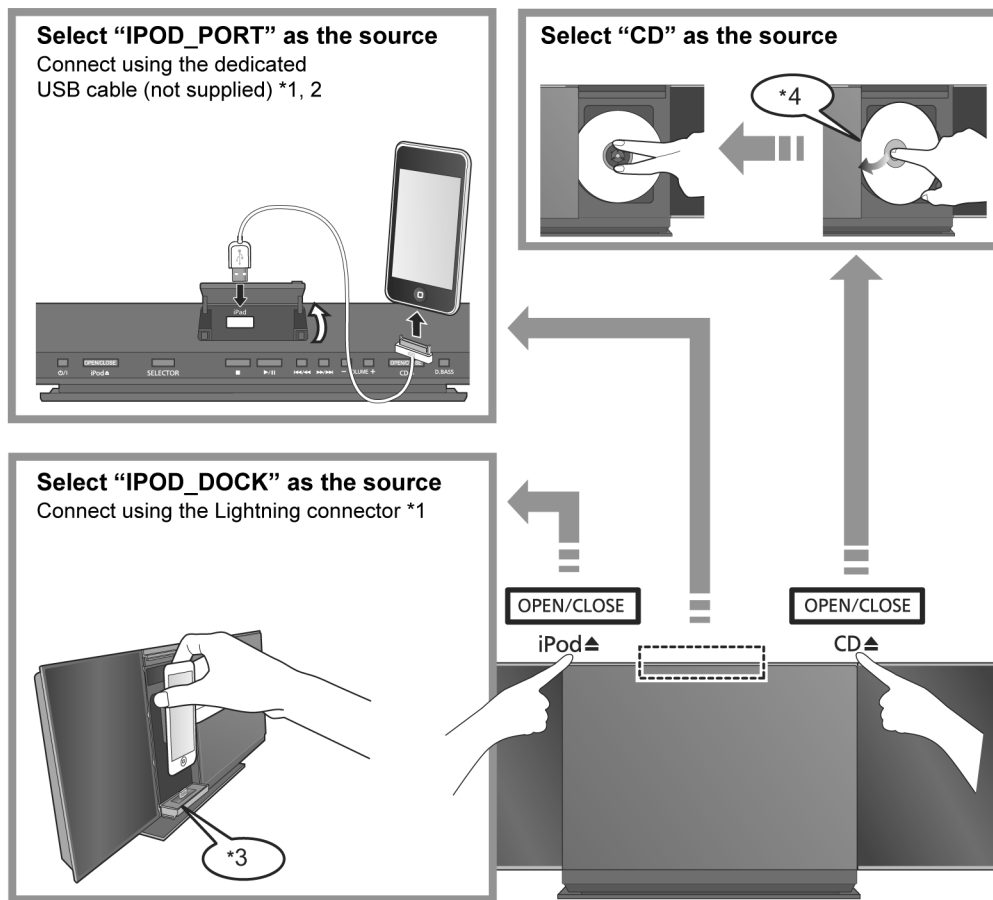
The Wi-Fi Protected Setup Mark is a mark of the Wi-Fi Alliance.

"Wi-Fi", "Wi-Fi Protected Setup", "WPA" and "WPA2" are marks or registered marks of the Wi-Fi Alliance.

The Bluetooth® word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Panasonic Corporation is under license. Other trademarks and trade names are those of their respective owners.

5 General/Introduction

5.1. Inserting media



*1: Refer to "Playable media" for compatible models.

*2: When using the "IPOD_PORT" connection, do not connect the following models to this unit:
– iPod classic®, iPod [4th (color display), and 5th (video) generation]
Unexpected behavior may occur.

*3: When using the "IPOD_DOCK" connection:

- Be sure to remove the iPod/iPhone from its case.
- Do not push or pull the dock manually.
- Make sure that the iPod/iPhone is fully inserted and its back is resting against the cushion pad.
- Make sure to hold the dock when removing the iPod/iPhone.

*4: Make sure to tilt the disc so as not to touch the sliding door.

- Do not open the sliding door manually.
- Make sure that the unit does not fall when inserting or removing media.
- When moving this unit, be sure to remove all media and turn this unit to standby mode.

Charging an iPod/iPhone/iPad

Charging starts when an iPod*2/iPhone/iPad is connected to this unit.

- During standby mode, charging will not start from the "IPOD_PORT" connection, however it will start as usual from the "IPOD_DOCK" connection.
– To charge from the "IPOD_PORT" connection, start the charging before turning this unit to standby mode.



- Check the iPod/iPhone/iPad to see if the battery is fully charged. (Once fully recharged, additional recharging will not occur.)
- If this unit is switched to standby mode "IPOD CHARGING" is shown on the unit's display.

5.2. Media playback operations

The following marks indicate the availability of the feature.

- CD** : CD audio in CD-DA format
- iPod** : Compatible iPod/iPhone/iPad
- AirPlay** : When connected to an AirPlay compatible device.
- Bluetooth** : Connected Bluetooth® device

Preparation

- Turn the unit on.
- Insert the media or connect the Bluetooth® / AirPlay compatible device.
- Press [CD], [iPod] or [Bluetooth] to select the audio source.

Basic play

(**CD**, **iPod**, **AirPlay**, **Bluetooth**)

| | |
|------------------------------------|--|
| Play | Press [▶/II]. |
| Stop | Press [■]. |
| Pause | Press [▶/II]. Press again to restart play. |
| Skip | Press [◀◀/▶▶] or [▶▶/▶▶] to skip track. |
| Search (Except AirPlay) | During play or pause Press and hold [◀◀/▶▶] or [▶▶/▶▶]. • iPod : Backwards search is only within the current track. |

CD **Bluetooth** To display information

Press [DISPLAY] repeatedly.



- To use this unit's remote control with a Bluetooth® device, the Bluetooth® device must support AVRCP (Audio Video Remote Control Profile). Depending on the device or the status of the device, some operations may not work.

iPod To navigate through the iPod/iPhone menu

- Open the Music App to use this feature with iPod touch/iPhone.
- [▲, ▼] : To navigate menu items.
- [OK] : To go to the next menu.
- [iPod MENU] : To return to the previous menu.



- To view the operation, open the sliding door.
- The operation may vary among iPod/iPhone/iPad models.
- Depending on the model (e.g., iPod nano 7th generation, etc.) it may be necessary to select the album, artist, etc. on the iPod/iPhone/iPad.

Playback modes (**CD**, **AirPlay** *1)

Select the playback mode.

- 1 Press [PLAY MENU] to select "REPEAT" or "RANDOM" / "SHUFFLE".
- 2 Press [▲, ▼] to select the setting and then press [OK].

REPEAT

| | |
|-----------|--|
| CD | |
| OFF: | Select to cancel repeat playback. |
| 1-TRACK: | Only plays the selected track. • "1", "♪", "↺" is displayed. (Skip to the desired track) |
| ALL: | All tracks are repeated. • "↻" is displayed. |

AirPlay

Refer to the connected device to verify the selected setting.

CD RANDOM

| | |
|------|--|
| ON: | Plays the contents randomly. • "RND" is displayed. • "RND" will not be displayed when "1-TRACK" is selected. |
| OFF: | Random playback is turned off. |

AirPlay SHUFFLE

Refer to the connected device to verify the selected setting.



- When using an iPod/iPhone/iPad or Bluetooth® device, use the setting on the device, if available.
- During random/shuffle play, you cannot skip to the previous track.
- **CD** : The mode is canceled when you open the sliding door for discs.
- **AirPlay** : The applied settings will remain until it is changed.

*1: **AirPlay** Perform the settings during playback.

Compatibility **CD**, **iPod/iPhone/iPad**, **AirPlay**, **Bluetooth**®

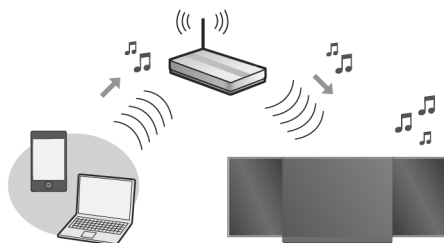
- For compatibility of **CD**, **iPod/iPhone/iPad**, **AirPlay**, **Bluetooth**® please refer to Operating Instructions.

5.3. AirPlay operations

With this feature you can wirelessly stream music from an iOS device (iPhone, iPod, iPad) or a Mac/PC to this unit's speakers.

To use this feature (AirPlay), this unit must join the same 2.4 GHz wireless network as the AirPlay compatible device.

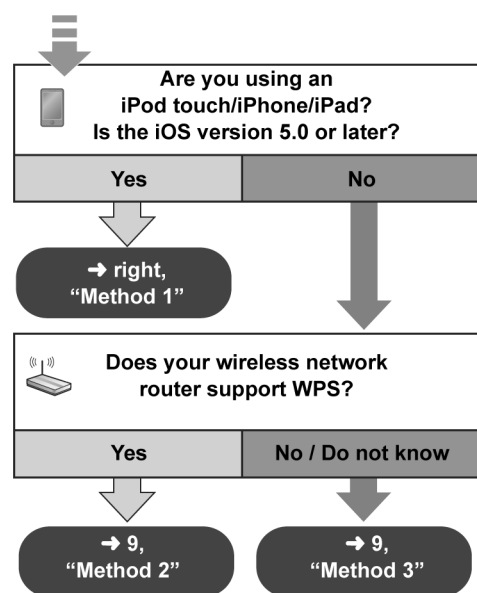
- It is also possible to use AirPlay without a wireless network router. ("Directly streaming to this unit")



Preparation

- Place this unit close to the wireless network router.

- 1 Turn this unit on.
- 2 Follow the chart below to choose the network setting method.



- To cancel this setting in the middle, press [⏻] to turn off the unit.

*1: Depending on the network environment or the wireless network router settings, it may take more than 10 mins. to complete the settings.

Method 1

If you're using an iPod touch/iPhone/iPad.
(iOS version 5.0 or later.)

With this method you will share the wireless network settings of your iPod touch/iPhone/iPad with this unit.

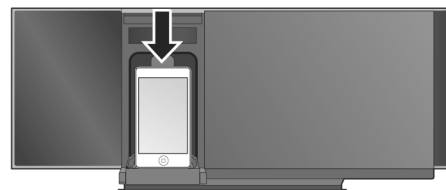
- The following explanations are based on an iPhone.

- 1 Connect the **iPhone** to your **home wireless network**.

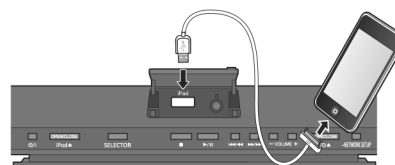
- 2 Connect the **iPhone** to **this unit**.

Choose one of the following connections.

"IPOD_DOCK" connection compatible iPod touch/iPhone



iPod touch/iPhone/iPad with iOS 5.0 or later



- 3 Unlock your iPhone and then press and hold **[– NETWORK SETUP]** on this unit for more than 3 seconds.

- If "NOT SUPPORTED" or "SET WI-FI" is displayed, check that the iPhone is connected to the wireless network and try again from step 1.

- 4 A message will pop-up on your iPhone. Allow the iPhone to share the wireless network settings.*1

↳ The Wi-Fi status indicator blinks.

- 5 The unit's settings are completed when **"SUCCESS"** is displayed and the Wi-Fi status indicator **stops blinking and lights in blue**.

If "FAIL" is displayed press [OK] and try the setting again. If "FAIL" is still displayed, try "Method 2" or "Method 3".

- If the iPhone was disconnected midway through, try again without disconnecting it.

- 6 Press [OK] on the remote control to exit the settings.

- 7 To use AirPlay, turn to page 11.

Compatibility devices (AirPlay)

- For compatibility of devices (AirPlay) please refer to Operating Instructions

5.4. Bluetooth® operations

Pairing Bluetooth® devices

Preparation

- Turn on the Bluetooth® feature of the device and place the device near this unit.
- If this unit is already connected to a Bluetooth® device, disconnect it.

- 1 Press [F] to select "BLUETOOTH".
 - If "PAIRING" is indicated on the display, go to step 3.
- 2 Press [PLAY MENU] to select "NEW DEV." and then press [OK].
 - ↳ "PAIRING" is indicated on the display.
- 3 Select "SC-HC58" from the Bluetooth® device's Bluetooth® menu.
- 4 Start play on the Bluetooth® device.



- Refer to the operating instructions of the Bluetooth® device for details.
 - If prompted for the passkey, input "0000".
- You can register up to 8 devices with this unit. If a 9th device is paired, the device that has not been used for the longest time will be replaced.

Connecting a paired Bluetooth® device

Preparation

- Turn on the Bluetooth® feature of the device and place the device near this unit.
- If this unit is already connected to a Bluetooth® device, disconnect it.

- 1 Press [F] to select "BLUETOOTH".
 - ↳ "READY" is indicated on the display.
- 2 Select "SC-HC58" from the Bluetooth® device's Bluetooth® menu.
 - ↳ The name of the connected device is indicated on the display for 2 seconds.
- 3 Start play on the Bluetooth® device.



- This unit can only be connected to one device at a time.
- When "BLUETOOTH" is selected as the source, this unit will automatically try and connect to the last connected Bluetooth® device. The Bluetooth® device will be disconnected if a different audio source (e.g., [CD]) is selected.

Bluetooth® transmission mode

You can change the transmission speed to prioritize transmission quality or sound quality.

Preparation

- Press [F] to select "BLUETOOTH".
- If a Bluetooth® device is already connected, disconnect it.

- 1 Press [PLAY MENU] repeatedly to select "LINK MODE".
- 2 Press [▲, ▼] to select the mode and then press [OK].

MODE 1: Emphasis on connectivity

MODE 2: Emphasis on sound quality



- The default setting is "MODE 1".

Bluetooth® input level

If the sound input level of the Bluetooth® transmission is too low, change the input level setting.

Preparation

- Connect a Bluetooth® device.

- 1 Press [PLAY MENU] repeatedly to select "INPUT LEVEL".
- 2 Press [▲, ▼] to select the level and then press [OK].

"LEVEL 0" ↔ "LEVEL +1" ↔ "LEVEL +2"



- Select "LEVEL 0" if the sound is distorted.
- The default setting is "LEVEL 0".

Disconnecting a Bluetooth® device

- 1 While a Bluetooth® device is connected:
Press [PLAY MENU] to select "DISCONNECT?".
- 2 Press [▲, ▼] to select "OK? YES" and then press [OK].

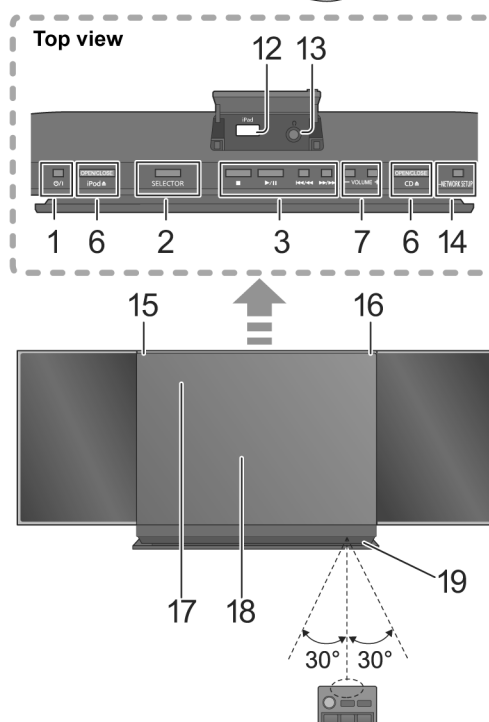
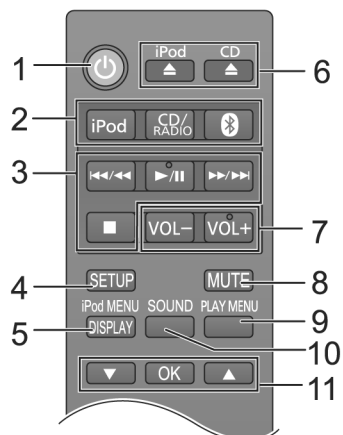
Compatibility Bluetooth®

- For compatibility of Bluetooth® please refer to Operating Instructions.

6 Location of Controls and Components

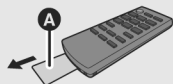
6.1. Main Unit & Remote Control Key Button Operations

- 1 Standby/on switch $\left[\text{⏻} / \text{⏻} \right]$ (⏻)
Press to switch the unit from on to standby mode or vice versa.
In standby mode, the unit is still consuming a small amount of power.
- 2 Select the audio source
On the remote control
[iPod] : "IPOD_DOCK" ↔ "IPOD_PORT"
[CD/RADIO] : "CD" ↔ "FM"
[📶] : "BLUETOOTH"
On this unit:
"CD" → "FM" → "BLUETOOTH" → "IPOD_DOCK"
↑
"IPOD_PORT" ←
- 3 Basic playback control buttons
- 4 Enter setup menu
- 5 Enter the iPod/iPhone menu /
Change displayed information
- 6 Open or close the sliding door
- 7 Adjust the volume (0 (min) to 50 (max))
- 8 Mute the sound
Mutes the sound. Press again to cancel.
"MUTE" is also canceled when the volume is adjusted or the unit is turned off.
- 9 Enter playback menu
- 10 Enter sound menu
- 11 Selection/OK
- 12 "IPOD_PORT" for iPod/iPhone/iPad
- 13 Headphone jack
Plug type: $\varnothing 3.5$ mm ($1/8$ ") stereo
Recommended plug type: Straight Plug
 - Listening at full volume for long periods may damage the user's ears.
 - Excessive sound pressure from earphones and headphones can cause hearing loss.
- 14 Network setting button
- 15 Power on indicator
- 16 Wi-Fi® status indicator
- 17 Display
- 18 Sliding door
- 19 Remote control signal sensor
Distance:
Within approx. 7 m (23 ft) directly in front.
 - To avoid interference, please do not put any objects in front of signal sensor.



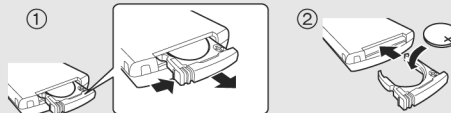
■ Before using for the first time

Remove the insulation sheet **A**.



■ To replace a button-type battery

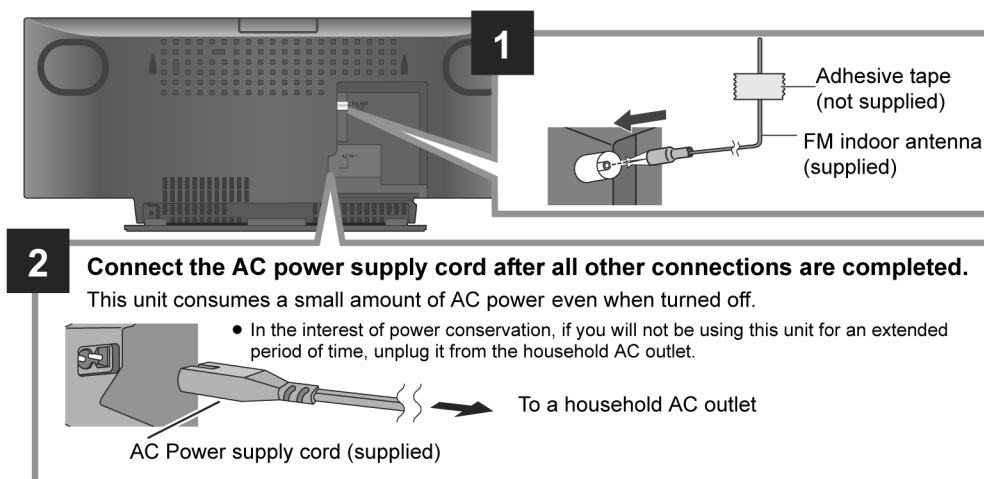
Battery type: CR2025 (Lithium battery)



- Set the button-type battery with its (+) mark facing upward.
- Keep the button-type battery out of reach of children to prevent swallowing.

7 Installation Instructions

7.1. Connections



8 Service Mode

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

8.1. Self Diagnostic Mode

Here is the procedures to enter into Self Diagnostic Mode.

Step 1 : Turn on the unit.

Step 2 : Select CD mode.

Step 3 : Press and hold [■] button for 2 seconds follow by [▶▶/▶▶] on the unit.

Step 4 : The display show as follow.

SERVICE

To exit the Self Diagnostic Mode









Use either one of the following methods to cancel the Self Diagnostic Mode.

- Press the power button on the main unit or using the remote control.
- Unplug the AC cord.

8.1.1. Self Diagnostic Table 1




| Item | | FL display | Key operation |
|------------------------|---|------------------------------|---|
| Mode name | Description | | |
| Self Diagnostic Mode | To enter into self diagnostic checking | SERVICE | <p>Step 1 : Select CD mode (Ensure no disc is inserted).</p> <p>Step 2 : Press and hold [■] follow by [▶▶/▶▶] on main unit for 2 second .</p> |
| Error code information | System will perform a check on any unusual/error code from the memory | <p>Example:</p> <p>E F26</p> | <p>Step 1 : In self diagnostic mode, Press [STOP] on main unit.</p> <p>To exit, press [⏻/I] on main unit or remote control.</p> |
| Delete Error code | To clear the stored in memory (EEPROM IC) | CLEAR | <p>Step 1 : In self diagnostic mode, Press [0] on remote control.</p> <p>To exit, press [⏻/I] on main unit or remote control.</p> |

8.1.2. Self Diagnostic Table 2




| Item | | FL Display | Key Operation |
|------------------|----------------------------|---|---|
| Mode Name | Description | | Front Key |
| Opecon version | opecon firmware version | <p>(Display 1)</p>  <p>(Display 2)</p>  <p>No Rom correction</p> | <p>Press [DISPLAY] button on the remote control for next version display.</p> <p>To exit Service Mode, press [⏻/I] button on main unit or remote control.</p> |
| LSI version | CD-LSI firmware version | <p>(Display 1)</p>  <p>(Display 2)</p>  | <p>Press [DISPLAY] button on the remote control for next version display.</p> <p>To exit Service Mode, press [⏻/I] button on main unit or remote control.</p> |
| Yamaha DSP | DSP firmware version |  <p>firmware mode firmware version number</p> | <p>Press [DISPLAY] button on the remote control for next version display.</p> <p>To exit Service Mode, press [⏻/I] button on main unit or remote control.</p> |
| Bluetooth module | Bluetooth firmware version | <p>(Display 1) BT version</p>  <p>flash version flash sub version control version</p> <p>(Display 2) BT EEPROM Version</p>  <p>EEPROM version EEPROM sub version</p> | <p>Press [DISPLAY] button on the remote control for next version display.</p> <p>To exit Service Mode, press [⏻/I] button on main unit or remote control.</p> |
| Air Play module | Air Play firmware version |  | <p>Press [DISPLAY] button on the remote control for next version display.</p> <p>To exit Service Mode, press [⏻/I] button on main unit or remote control.</p> |

8.2. Self Diagnostic Function Error Code



8.2.1. CD Mechanism Error Code Table

| Error Code | Diagnostic Contents | Description of error | Automatic FL Display | Remarks |
|------------|--|---|--|--|
| CD H15 | CD Open Abnormal | During operation POS_SW_R On fail to be detected within 4 sec. Error No. shall be clear by force or during cold start. |  | Press [■] on main unit for next error. |
| CD H16 | CD Closing Abnormal | During operation POS_SW_CEN On fail to be detected within 4 sec. Error No. shall be clear by force or during cold start. |  | Press [■] on main unit for next error. |
| F26 | Communication between CD servo LSI and micro-p abnormal. | During switch to CD function, if SENSE = "L" within failsafe time of 20ms. |  | Press [■] on main unit for next error. |


8.2.2. Power Amp Error Code Table

| Error Code | Diagnostic Contents | Description of error | Automatic FL Display | Remarks |
|------------|------------------------------|--|---|--|
| F61/F76 | Power Amp IC output abnormal | During power-on, PDET1, PDET2 & MAINV_DET / TEMP_DET is "L" after 1 sec. |   | Press [■] on main unit for next error. |
| SMPS NG | Checking SMPS Type | SMPS type and REGION not match. The unit will shutdown. |  | Press [■] on main unit for next error. |


8.2.3. iPod Error Code Table

| Error Code | Diagnostic Contents | Description of error | Automatic FL Display | Remarks |
|------------|-----------------------|---|--|--|
| IPD H15 | iPod Open Abnormal | During operation POS_SW_L On fail to be detected within 3 sec. Error No. shall be clear by force or during cold start. |  | Press [■] on main unit for next error. |
| IPD H16 | iPod Closing Abnormal | During operation POS_SW_CEN On fail to be detected within 3 sec. Error No. shall be clear by force or during cold start. |  | Press [■] on main unit for next error. |


8.2.4. Sliding Door Operation Error Code Table

| Error Code | Diagnostic Contents | Description of error | Automatic FL Display | Remarks |
|--------------|---|--|--|--|
| ILLEGAL OPEN | Sliding Door Open/Close Abnormal Refer to 8.4 for more information | During Operation 1. Motor set to FREE RUN condition after 2 retry fail to detect any POS_SW. 2. Sliding Door Stop from neutral to iPod open and position sensor could not be detected. |  | Press [■] on main unit for next error. |

8.2.5. Air Play Error Code Table

| Error Code | Diagnostic Contents | Description of error | Automatic FL Display | Remarks |
|------------|------------------------|--|--|--|
| F27 | Air Play Communication | Communication between Air Play module and micro-p abnormal |  | Press [■] on main unit for next error. |

8.2.6. Bluetooth Error Code Table

| Error Code | Diagnostic Contents | Description of error | Automatic FL Display | Remarks |
|------------|-------------------------|---|--|--|
| F70 | Bluetooth Communication | Communication between module and micro-p abnormal |  | Press [■] on main unit for next error. |

8.3. Doctor Mode Table

Note : To enter the Doctor Mode, please use HC35 remote control.

Here is the procedures to enter into Doctor Mode.

Step 1 : Turn on the unit.

Step 2 : Select CD mode.

Step 3 : Pressing and hold [■] on main unit then press [4] follow by [7] using the remote control.

Step 4 : The display show as follow.



To exit the Doctor mode










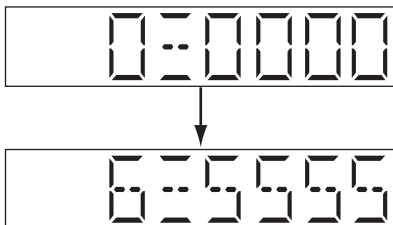
Use either one of the following methods to cancel the Doctor mode.

- Press the power button of the unit or using the remote control.
- Unplug the AC cord.

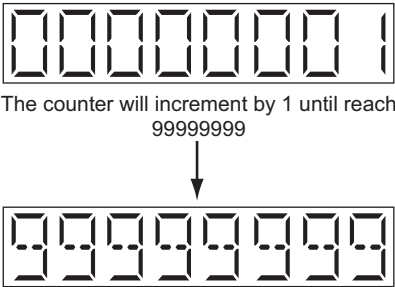
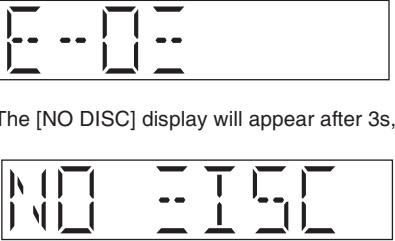

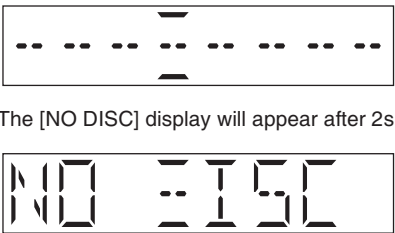
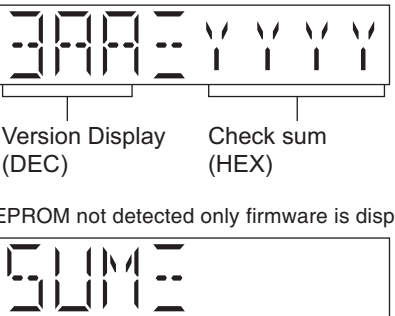
8.3.1. Doctor Mode Table 1

| Item | | FL Display | Key Operation |
|-------------|--|---|---|
| Mode Name | Description | | Front Key |
| Doctor Mode | <p>To enter into Doctor Mode for checking of various items and displaying EEPROM and firmware version.</p> <p>Note: The micro-processor version as shown is an example. It will be revise when there is an updates.</p> <p>FL Display sequence Display 1 → 2</p> | <p>(Display 1)</p> <div><div>3333EY Y Y Y</div><div>Version Display (DEC) Check sum (HEX)</div><p>Checksum : (Condition 1)</p><div>50ME</div><div>No Rom correction</div><p>(Display 2)</p><div>NO EISC</div><p>The Checksum of EEPROM and firmware version will be display for 2 sec.</p></div> | <p>In any mode: Press [■] button on main unit follow by [4] & then [7] on the remote control of HC35.</p> <p>To exit Doctor Mode, press [⏻] button on main unit or on the remote control of HC35.</p> |










8.3.2. Doctor Mode Table 2

| Item | | FL Display | Key Operation |
|---------------------------------|---|--|---|
| Mode Name | Description | | Front Key |
| FL Display Test | To check the FL segments display (All segments will light up) |  | <p>In Doctor Mode: Press [1] button on the remote control of HC35.</p> <p>To cancel, press [0] button on remote control. It returns Doctor Mode.</p> <p>To exit Doctor Mode, press [⏻/I] button on main unit or on the remote control of HC35.</p> |
| Volume Setting | To check for preset volume setting Note : In tuner mode this function is not possible |  <p>The [NO DISC] display will appear after 3s,</p>  | <p>In Doctor Mode: Press [7] button on the remote control of HC35.</p> <p>To cancel, press [0] button on remote control. It returns Doctor Mode.</p> <p>To exit Doctor Mode, press [⏻/I] button on main unit or on the remote control of HC35.</p> |
| | |  <p>The [NO DISC] display will appear after 3s,</p>  | <p>In Doctor Mode: Press [8] button on the remote control of HC35.</p> <p>To cancel, press [0] button on remote control. It returns Doctor Mode.</p> <p>To exit Doctor Mode, press [⏻/I] button on main unit or on the remote control of HC35.</p> |
| | |  <p>The [NO DISC] display will appear after 3s,</p>  | <p>In Doctor Mode: Press [9] button on the remote control of HC35.</p> <p>To cancel, press [0] button on remote control. It returns Doctor Mode.</p> <p>To exit Doctor Mode, press [⏻/I] button on main unit or on the remote control of HC35.</p> |
| | |  <p>↓</p>  | <p>In Doctor Mode: Press [≥10] follow by [2] & then [1] button on the remote control of HC35.</p> <p>To cancel, press [0] button on remote control. It returns Doctor Mode.</p> <p>To exit Doctor Mode, press [⏻/I] button on main unit or on the remote control of HC35.</p> |
| | | | |
| | | | |
| Mecha Sliding Panel Reliability | <p>To check the operation of sliding Panel. Sequence as follow :</p> <ol style="list-style-type: none"> 1. CD Door set to CLOSE position. 2. CD Door move to the left (CD Open direction) and stop at LEFT position for 1 sec. 3. CD Door move to the right (CD Close direction) and stop at CLOSE position for 1 sec. 4. All the process above is considered as 1 cycle. Step (2) ~ (3) will repeat; Cycle Counter display increase every 1 cycle completed. |  | <p>In Doctor Mode: Press [≥10] follow by [2] & then [1] button on the remote control of HC35.</p> <p>To cancel, press [0] button on remote control. It returns Doctor Mode.</p> <p>To exit Doctor Mode, press [⏻/I] button on main unit or on the remote control of HC35.</p> |











8.3.3. Doctor Mode Table 3

| Item | | FL Display | Key Operation |
|----------------------------|--|--|---|
| Mode Name | Description | | Front Key |
| CD Traverse Test Mode | <p>To check for the traverse unit operation. In this mode, the first & last track is access & read. (TOC). It fails when TOC is not completed by 10s or the traverse is out of focus. for more than 2s</p> <p>Refer to 8.3.6 for more information</p> |  | <p>In Doctor Mode: Press [≥ 10] follow by [1] & then [2] button on the remote control of HC35. To cancel, press [0] button on remote control. It returns Doctor Mode.</p> <p>To exit Doctor Mode, press [ϕ/I] button on main unit or on the remote control of HC35.</p> |
| CD Self-Adjustment Display | To display result of self adjustment for CD. |  | <p>In Doctor Mode: Press [≥ 10] follow by [1] & then [4] button on the remote control of HC35. To cancel, press [0] button on remote control. It returns Doctor Mode.</p> <p>To exit Doctor Mode, press [ϕ/I] button on main unit or on the remote control of HC35.</p> |
| CD Combination Test | <p>To check the open/close operation & inner outer disc access operation.</p> <ol style="list-style-type: none"> 1. It fails when CD open/close is not completed by 4s. 2. The disc access fails in 10s. 3. The traverse is out of focus for more than 2s. <p>Refer to 8.3.7 for more information</p> |  | <p>In Doctor Mode: Press [≥ 10] follow by [1] & then [5] button on the remote control of HC35. To cancel, press [0] button on remote control. It returns Doctor Mode.</p> <p>To exit Doctor Mode, press [ϕ/I] button on main unit or on the remote control of HC35.</p> |
| Cold Start | To activate cold start upon next power up. (Backup data are initialized) |  | <p>In Doctor Mode: Press [SLEEP] button on remote control. To cancel, press [0] button on remote control. It returns Doctor Mode.</p> <p>To exit Doctor Mode, press [ϕ/I] button on main unit or on the remote control of HC35.</p> |
| EEPROM Checksum | <p>To check sum of EEPROM for a simplifield ROM correction.</p> <ol style="list-style-type: none"> 1. When EEPROM is not detected, the only micro-p's version shall be displayed without an EEPROM's check sum |  | <p>In any mode: Press [■] button on main unit follow by [4] & then [7] on the remote control of HC35.</p> <p>To cancel, press [0] button on remote control. It returns Doctor Mode.</p> <p>To exit Doctor Mode, press [ϕ/I] button on main unit or on the remote control of HC35.</p> |

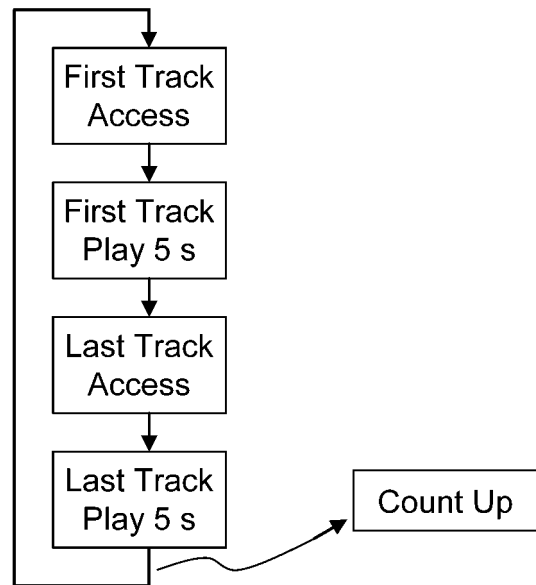
8.3.4. Doctor Mode Table 4

| Item | | FL Display | Key Operation |
|--------------------------|---|---|---|
| Mode Name | Description | | Front Key |
| Region Checking | To check Region setting of unit. Refer to 8.3.8 for the Region Setting destination |  <p>Region Setting destination</p> | <p>In Doctor Mode: Press [≥ 10] follow by [1] & then [6] button on the remote control of HC35. To cancel, press [0] button on remote control. It returns Doctor Mode. To exit Doctor Mode, press [ϕ/I] button on main unit or on the remote control of HC35.</p> |
| CD LSI 947 Version Check | To check CD LSI Version No. & checksum correction |  <p>Year of sales ROM type Running version number</p> <p>The display will appear after 2s,</p>  <p>Check sum display (HEX)</p> <p>The [NO DISC] display will appear after 2s,</p>  | <p>In Doctor Mode: Press [4] button on the remote control of HC35. To cancel, press [0] button on remote control. It returns Doctor Mode. To exit Doctor Mode, press [ϕ/I] button on main unit or on the remote control of HC35.</p> |
| Yamaha DSP Version Check | To check DSP Firmware mode & Version No. |  <p>Firmware Version No (00~FF) Firmware Mode (00~FF)</p> <p>The [NO DISC] display will appear after 5s,</p>  | <p>In Doctor Mode: Press [6] button on the remote control of HC35. To cancel, press [0] button on remote control. It returns Doctor Mode. To exit Doctor Mode, press [ϕ/I] button on main unit or on the remote control of HC35.</p> |
| Model setting | To check Model Setting. |  <p>Model Setting</p> | <p>In Doctor Mode: Press [≥ 10] follow by [1] & then [8] button on the remote control of HC35. To cancel, press [0] button on remote control. It returns Doctor Mode. To exit Doctor Mode, press [ϕ/I] button on main unit or on the remote control of HC35.</p> |
| Air Play Version Check | To check Air Play Firmware Version. |  <p>Firmware Version No (0001~9999)</p> <p>The [NO DISC] display will appear after 5s,</p>  | <p>In Doctor Mode: Press [5] button on remote control. To cancel, press [0] button on remote control. It returns Doctor Mode. To exit Doctor Mode, press [ϕ/I] button on main unit or on the remote control of HC35.</p> |

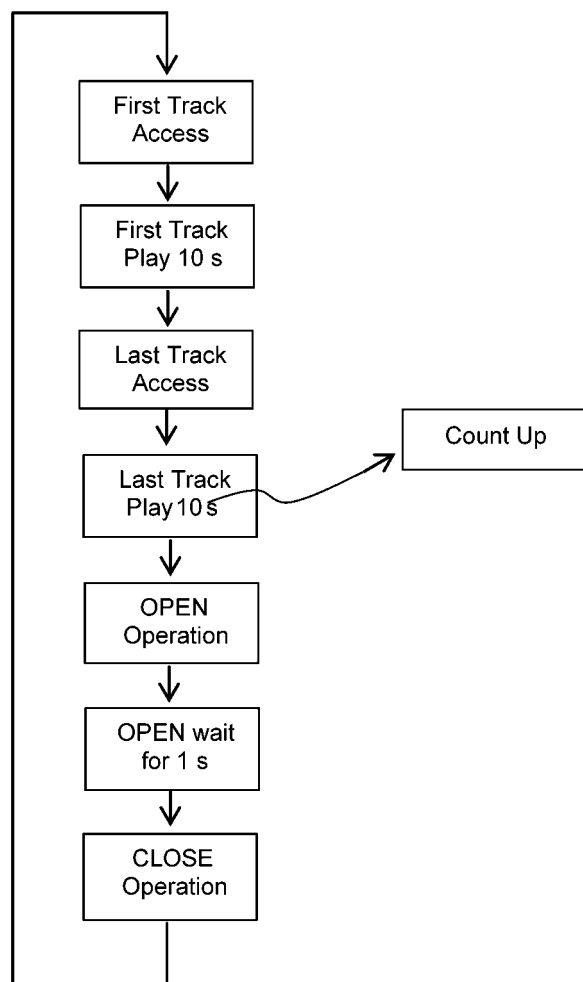
8.3.5. Doctor Mode Table 5

| Item | | FL Display | Key Operation |
|----------------------|--|---|---|
| Mode Name | Description | | Front Key |
| Forced Sound setting | To check for preset sound setting. |  <p>The display will appear after 2s,</p>  <p>The [NO DISC] display will appear after 2s,</p>  | <p>In Doctor Mode: Press [SOUND] button on the remote control of HC35.</p> <p>To cancel, press [0] button on remote control. It returns Doctor Mode.</p> <p>To exit Doctor Mode, press [⏮/I] button on main unit or on the remote control of HC35.</p> |
| | |  <p>The display will appear after 2s,</p>  <p>The [NO DISC] display will appear after 2s,</p>  | |
| Clock Setting | To check for Clock setting |  | <p>In Doctor Mode: Press [CLOCK/TIMER] button on the remote control of HC35.</p> <p>To cancel, press [0] button on remote control. It returns Doctor Mode.</p> <p>To exit Doctor Mode, press [⏮/I] button on main unit or on the remote control of HC35.</p> |
| DAMP Safety Test | <p>DSP Safety test setting</p> <p>Refer to 8.3.9 for the Model Setting</p> |  <p>The [NO DISC] display will appear after 5s,</p>  | <p>In Doctor Mode: Press [≥10] follow by [2] & then [3] button on the remote control of HC35.</p> <p>To cancel, press [0] button on remote control. It returns Doctor Mode.</p> <p>To exit Doctor Mode, press [⏮/I] button on main unit or on the remote control of HC35.</p> |
| DAMP Aging Test | MAS-P4-016 power amplifier life test standard |  | <p>In Doctor Mode: Press [≥10] follow by [2] & then [4] button on the remote control of HC35.</p> <p>To cancel, press [0] button on remote control. It returns Doctor Mode.</p> <p>To exit Doctor Mode, press [⏮/I] button on main unit or on the remote control of HC35.</p> |

8.3.6. CD Traverse Test (For CD)



8.3.7. CD Combination Test (For CD)



8.3.8. Region Check Table

| Model | Region Setting | Series | Country | SMPS ID |
|-------|----------------|--------|------------------------------|---------|
| HC58 | S0 | P | North America, Latin America | S1 |
| | S1 | Japan | Japan | S3 |
| | S3 | EG | Europe | S0 |
| | S4 | DBEB | Europe | S0 |
| | S6 | PU | Latin America | S0 |
| | S7 | GS | Middle East | S0 |
| | S8 | DBGN | Asia Oceania | S0 |

Note : Please refer to Section 16 (Printed Circuit Board Diagrams) for the SMPS P.C.B and Main P.C.B. part number.

8.3.9. Setting for Special Firm for Temperature Test

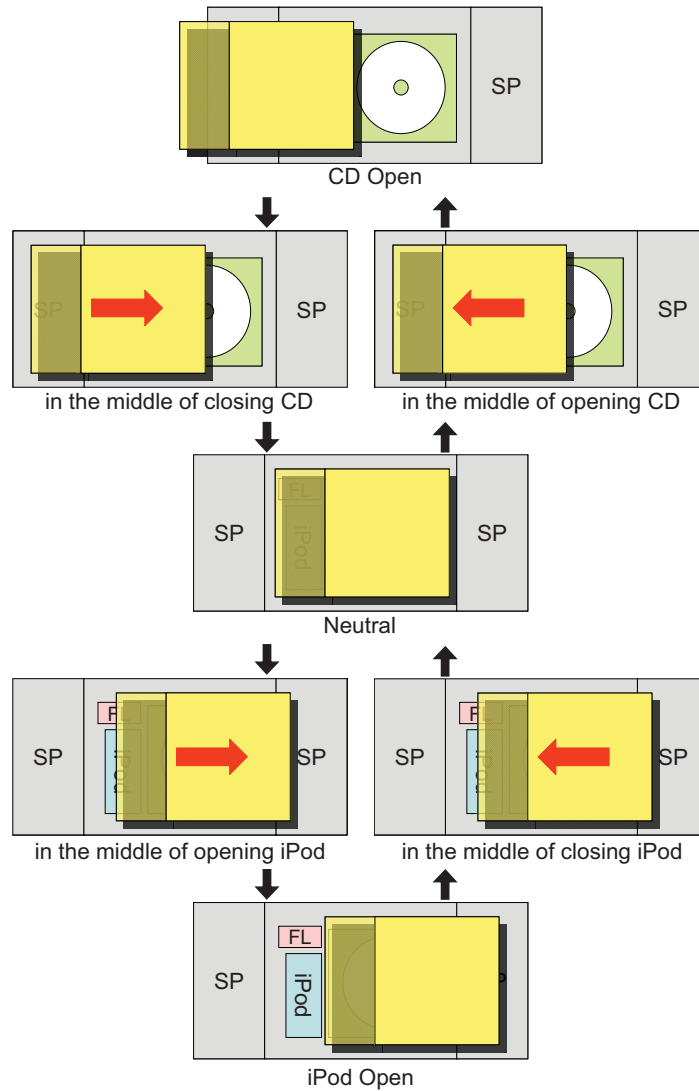
| Controls | | Microprocessor Access |
|---------------|------------|-------------------------------------|
| S3D | Effect OFF | WRITE 4130 4000 0000 |
| HE | Effect OFF | WRITE 4173 4000 0000 |
| Helios | Effect OFF | WRITE 4042 4000 0000 |
| | | WRITE 43F9 4000 0000 |
| SV (Loudness) | Effect OFF | WRITE 4050 0000 4000 |
| Limiter | Effect OFF | WRITE 408D 4000 0000 4000 0000 0000 |
| CF | Effect OFF | WRITE 4069 0000 4000 0000 4000 |
| PEQ | Effect OFF | WRITE 4042 4000 0000 |

Set off in the end of initial setting, and never turn on according to other setting

8.4. Sliding Door Operation

8.4.1. Basic Operation

1. The sliding open and close operation of the electric panel is done with [CD OPEN/CLOSE] key & [iPod OPEN/CLOSE] key on the main set or remote control.
2. The [CD OPEN/CLOSE] key & [iPod OPEN/CLOSE] key valid during standby condition.
3. When in iPod OPEN condition, the door does not move by pressing [CD OPEN/CLOSE] key.
Note : Same behaviors during closing/opening.
4. When in CD OPEN condition, the door does not move by pressing [iPod OPEN/CLOSE] key.
Note : Same behaviors during closing/opening.
5. During playback CD, open the door after stopping playback
6. If the door is pushed in the direction from CD open to neutral, the door is closed. It is equivalent to pressing [CD OPEN/CLOSE] key.
7. CD/iPod [OPEN/CLOSE] key is detected based on trigger up (key release) timing.



8.5. Wi-Fi trial demo mode

Note : For the sales purpose, customer can try AirPlay function by connecting customer's iPhone/iPod touch with HC directly. In this case, wireless router is not needed.

8.5.1. Operation on main set

Here is the procedures to enter into Wi-Fi trial demo mode.

Step 1 : Press and hold [POWER] and [NETWORK SETUP] buttons on main set for more than 2 seconds.

Step 2 : The set will power on with Wi-Fi trial demo mode.

The condition of demo mode is following.

8.5.1.1. Wireless setting on HC main set

- The set becomes wireless access point mode. SSID and password is below. [*****] means last 3 bytes of Mac address. (hereafter, omit this explanation.)

SSID : [HC58 DIR *****]

Password : None

Stereo system name is below.

[HC58 DIR *****]

The channel number of Wi-Fi is "Auto". (Common channel number for all destinations.)

8.5.1.2. Display on main set

- During demo mode, control 2 color LED as below.

Blink blue and red alternately.

→ Repeat (Blue : 0.5s → Light off : 0.5s → Red : 0.5s → Light off).

- During demo mode, it keep showing [HC58 DIR *****] on FL.

It shows [AIRPLAY] on FL until receive Mac address from AirPlay module.

Detail is below.

[HC58 DIR] (1 sec) → [C58 DIR *] (300ms) → [58 DIR **] (300ms) → ... → [*****] (1 sec) → [*****] (300ms) → ... → [*] (300ms) → [] → (300ms) → repeat.

8.5.1.3. Exit from Wi-Fi Trial demo mode

- If continue no operation and no sound for 10 minutes, it disconnects and power off. At this time, it exits from demo mode.
- Exit demo mode by power off and AC cut.
- After exit from demo mode, it changes back network setting to previous one before enter demo mode.
- When power off from demo mode, the selector is changed to CD. However, if plug out AC cord directly from demo mode, the selector becomes AirPlay because it cannot set to CD.
(It's trial function, so after exit from demo mode, the selector is returned to default.)
- If it has network setting and enter demo mode, it will affect to AirPlay function. When enter demo mode, it back up the network setting and when power off from demo mode, it change back the network setting. If plug out AC cord directly from demo mode, the network setting will be cleared because it cannot change back the network setting.

8.5.1.4. Limitation

- During demo mode, inhibit selector change. If selector change operation is done, it does not respond.

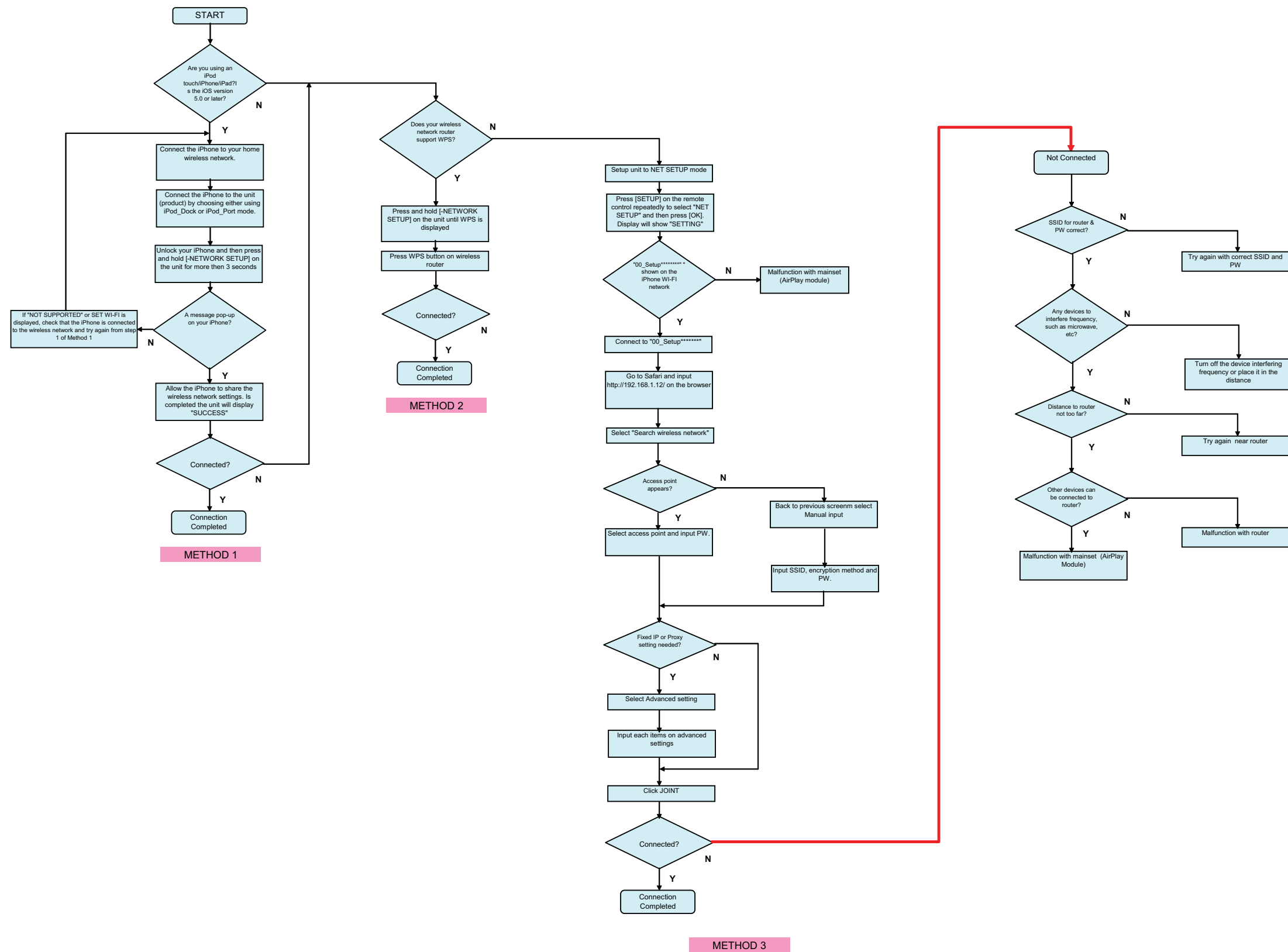
8.5.2. Operation on iPhone/iPod touch

After HC enter demo mode, operate followings.

1. Change Wi-Fi connection on iPhone to desired SSID of HC [HC58 DIR *****].
2. On the music playback display, click AirPlay icon and select desired stereo system name of HC [HC58 DIR *****] as output speaker.
3. Output the playing music on iPhone from HC speakers.

9 Troubleshooting Guide

9.1. Setting up to AirPlay



10 Service Fixture & Tools

Prepare service tools before process service position.

| Ref. No. | Service Tools | | Remarks |
|----------|---|-------------------|---------|
| SFT1 | Main P.C.B. (CN6006) - CD Servo P.C.B. (CN7002) | REE1712 (30P FFC) | |
| SFT2 | Main P.C.B. (CN1100) - SMPS P.C.B. (P1700) | REX1538 (7P Wire) | |

11 Disassembly and Assembly Instructions

Caution Note:

- 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 the 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. (See caution as described below)

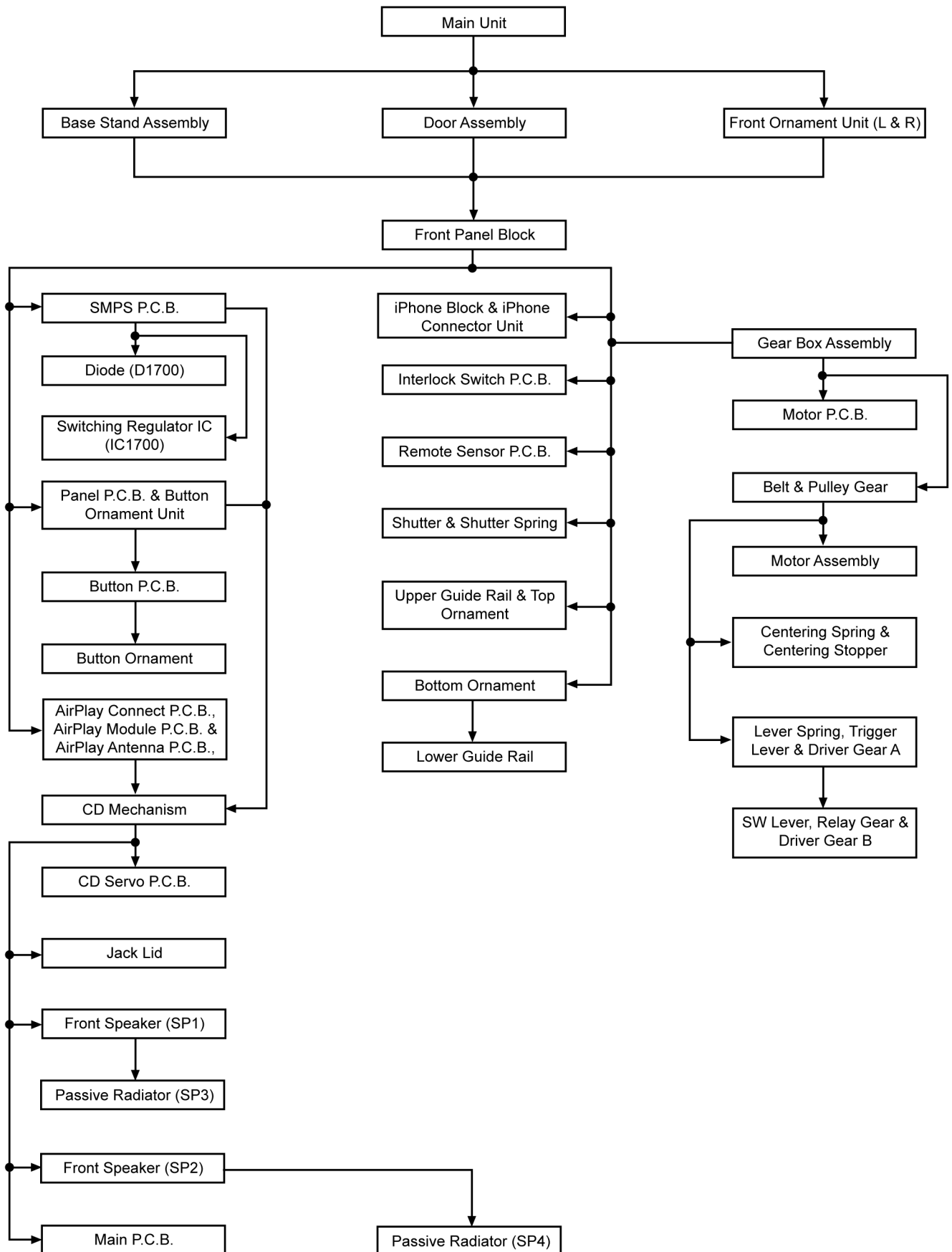
**CAUTION: HOT!!
PLEASE DO NOT
TOUCH THE HEAT SINK**

- During disassembly and assembly, please ensure proper service tools, equipments or jigs is being used.
 - During replacement of component parts, please refer to the section of “Replacement Parts List” as described in the service manual.
 - Select items from the following indexes when disassembly or replacement are required.
-
- Disassembly of Base Stand Assembly
 - Replacement of Door Assembly
 - Replacement of Front Ornament Unit (L) & (R)
 - Disassembly of Front Panel Block
 - Replacement of iPhone Block
 - Disassembly of Interlock Switch P.C.B.
 - Disassembly of Remote Sensor P.C.B.
 - Replacement of Gear Box Assembly
 - Disassembly of Motor P.C.B.
 - Disassembly of Belt & Pulley Gear
 - Disassembly of Motor Assembly
 - Disassembly of Centering Spring & Centering Stopper
 - Disassembly of Lever Spring, Trigger Lever & Driver Gear A
 - Disassembly of SW Lever, Relay Gear & Driver Gear B
 - Disassembly of Shutter & Shutter Spring
 - Disassembly of Upper Guide Rail & Top Ornament
 - Disassembly of Bottom Ornament
 - Disassembly of Lower Guide Rail
 - Disassembly of AirPlay Connect P.C.B. & AirPlay Module P.C.B.
 - Disassembly of SMPS P.C.B.
 - Replacement of Diode (D1700)
 - Replacement of Switching Regulator IC (IC1700)
 - Disassembly of Panel P.C.B. & Button Ornament Unit
 - Disassembly of Button P.C.B.
 - Disassembly of Button Ornament
 - Disassembly of CD Mechanism
 - Disassembly of CD Servo P.C.B.
 - Disassembly of Jack Lid
 - Disassembly of Main P.C.B.
 - Disassembly of Front Speaker (SP1)
 - Disassembly of Front Speaker (SP2)
 - Disassembly of Passive Radiator Unit (SP3 & SP4)

11.1. Disassembly flow chart

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

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



11.2. Types of Screws

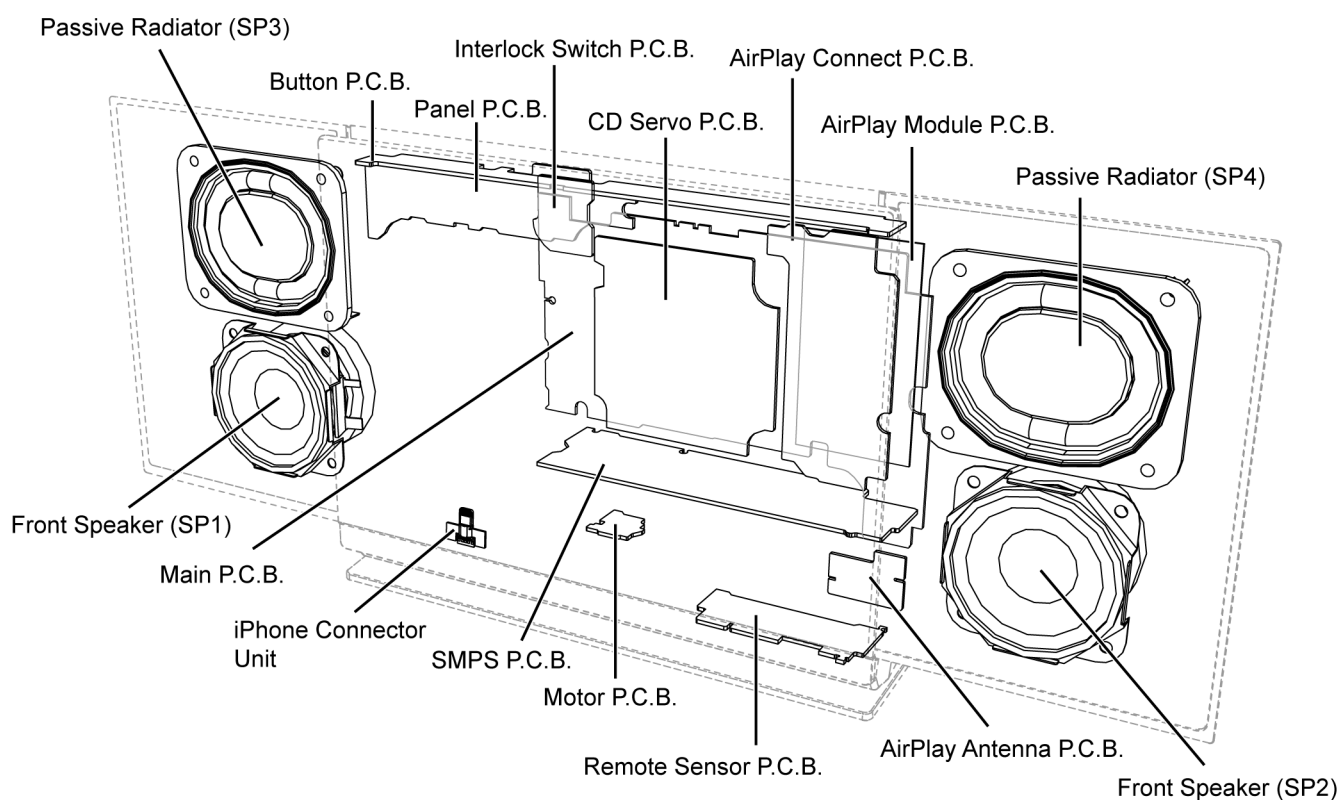
CAUTION NOTE:

Please use original screw and at correct locations.

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

- | | | |
|------------------------|------------------------|---------------------|
| a : RHD26046-K | e : RHD26043-1 | i : RHD20089 |
| b : VHD1224-1A | f : RHD30092-1 | |
| c : RHD26046 | g : XTB3+8JFJ-J | |
| d : XTB3+10JFJK | h : XTN2+6GFJ | |

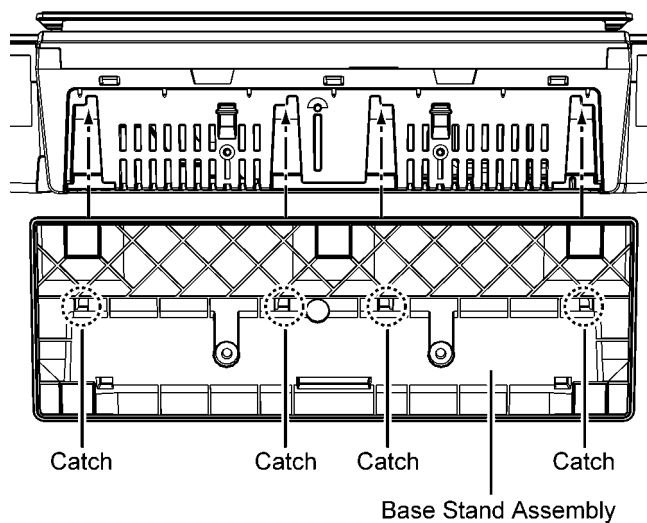
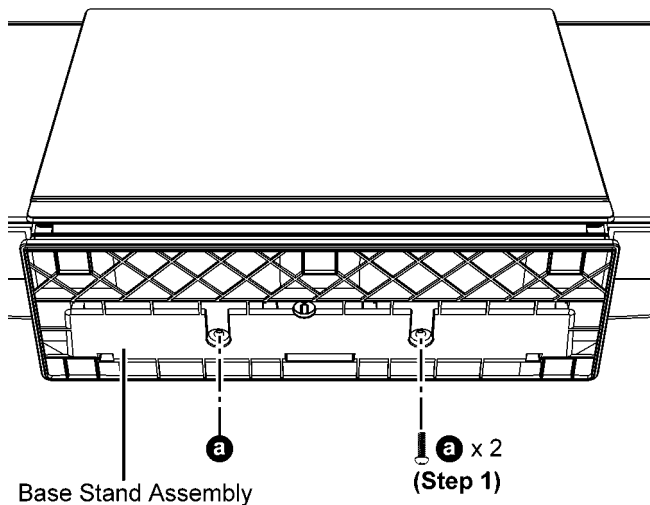
11.3. Main Parts Location Diagram



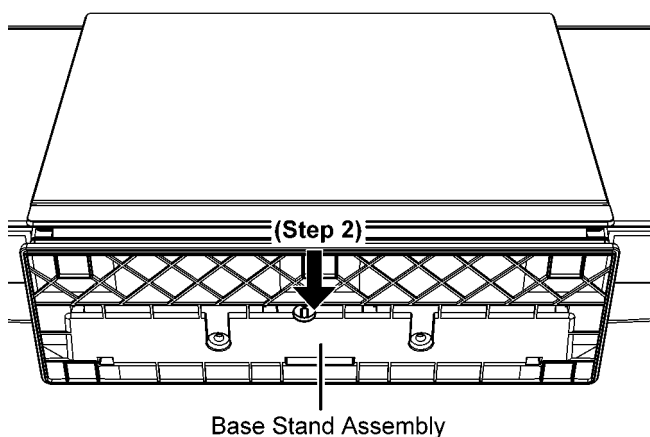
11.4. Disassembly of Base Stand Assembly

Caution : During assembling, ensure a “tack” Sound is heard when the Base Stand Assembly is fully catch onto the Rear Cabinet Assembly.

Step 1 : Remove 2 screws.



Step 2 : Remove the Base Stand Assembly.

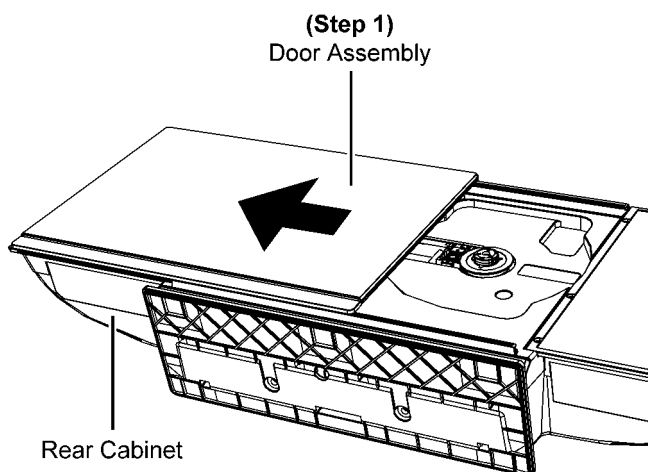


11.5. Replacement of Door Assembly

11.5.1. Disassembly of Door Assembly

Step 1 : Gently push the Door Assembly until it is fully open.

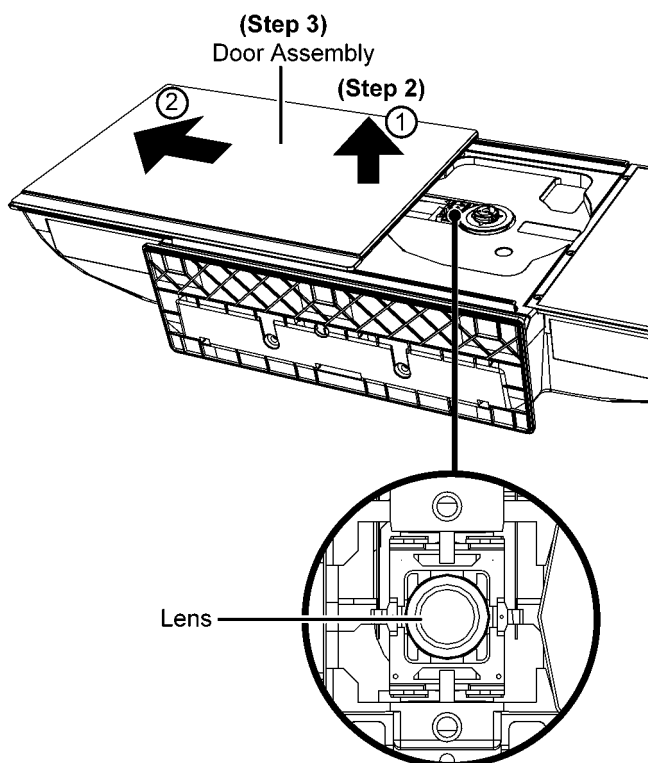
Caution : Do not use strong force during pushing of the Door Assembly.



Step 2 : Lift up the Door Assembly as arrow shown in order of sequences (1) to (2).

Step 3 : Gently push the Door Assembly to remove it.

Caution : During disassembling, avoid touching the surface of the OPU lens.

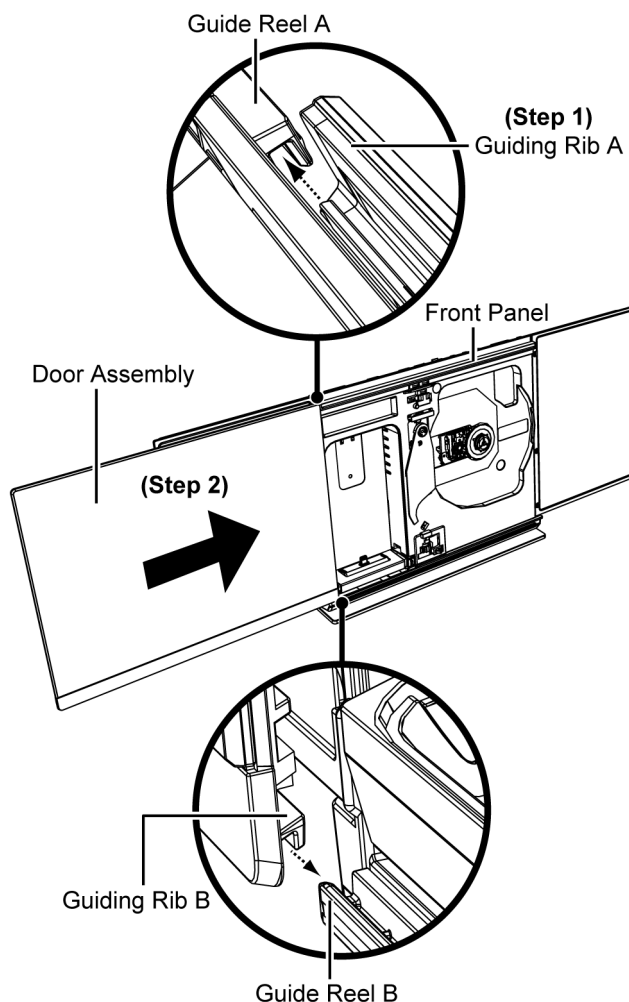


11.5.2. Assembly of Door Assembly

Step 1 : Align the Door Assembly with the (upper & lower guiding rib), guide reel (A & B) on the front panel.

Step 2 : Gently slide the Door Assembly to close it.

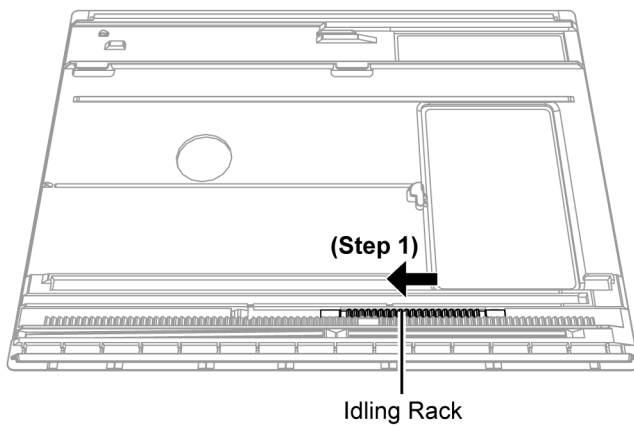
Caution : Avoid using strong force, ensure the Door Assembly move smoothly. Remove the Door Assembly & repeat step 1 & step 2 when it stops.



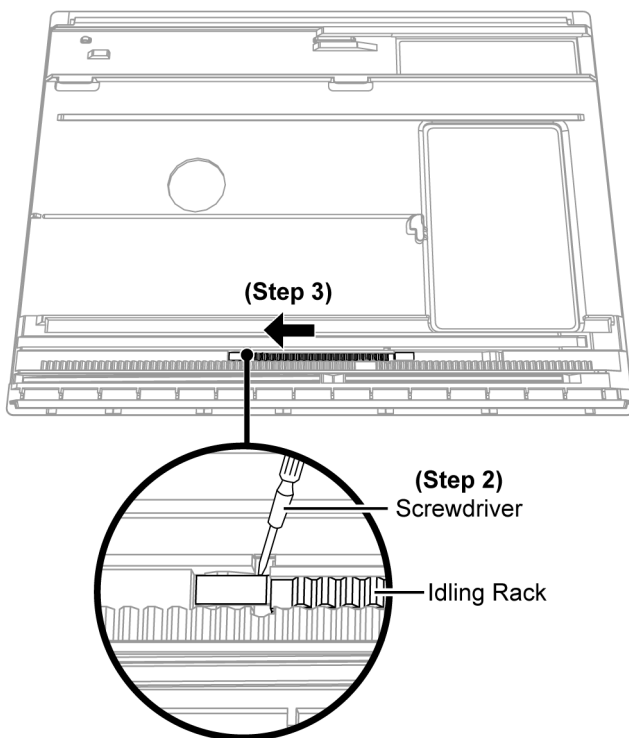
11.5.3. Disassembly of Idling Rack

- Refer to “Disassembly of Door Assembly”

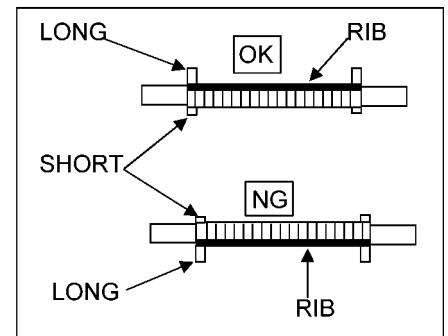
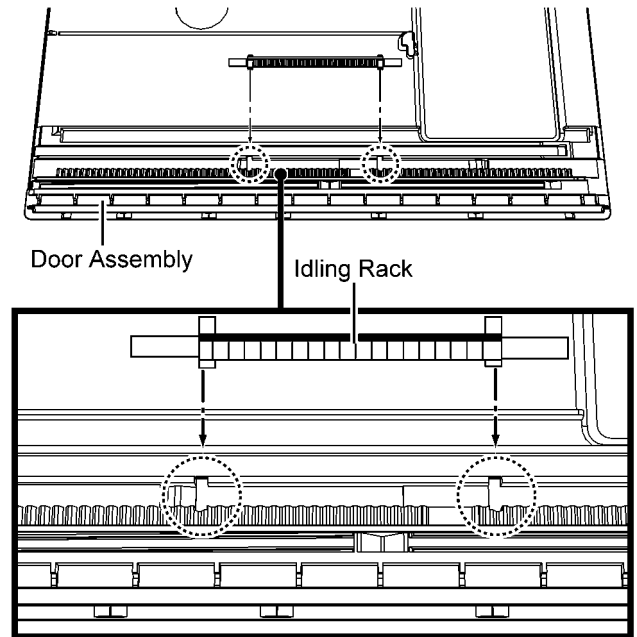
Step 1 : Slide the Idling Rack until it come to a stop.



Step 2 : Gently using a Screwdriver to lift up the Idling Rack.
Step 3 : Remove the Idling Rack as arrow shown.



Caution : During assembling, insert the Idling Rack & ensure it is fully caught to the Door Assembly.



11.6. Replacement of Front Ornament Unit (L) & (R)

Note : Front Ornament Unit (L) & (R) have the same mechanical structure. For disassembling/assembly of Front Ornament Unit (R), repeat the (Step 1) to (Step 3) of 11.6.1./11.6.2.

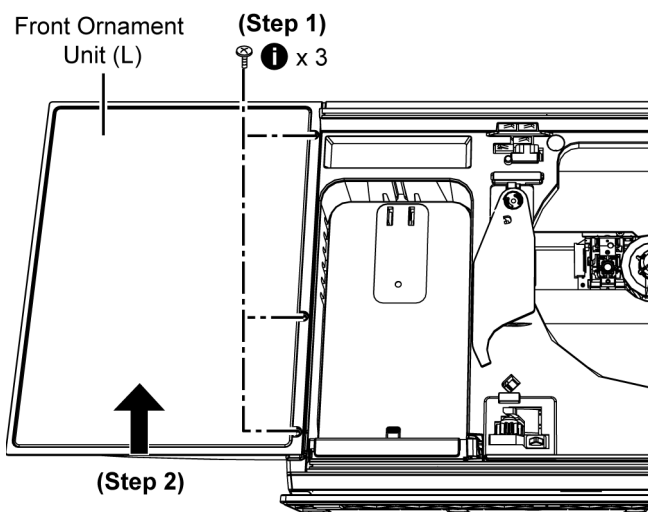
Below illustrated Front Ornament Unit (L)

- Refer to “Disassembly of Door Assembly”

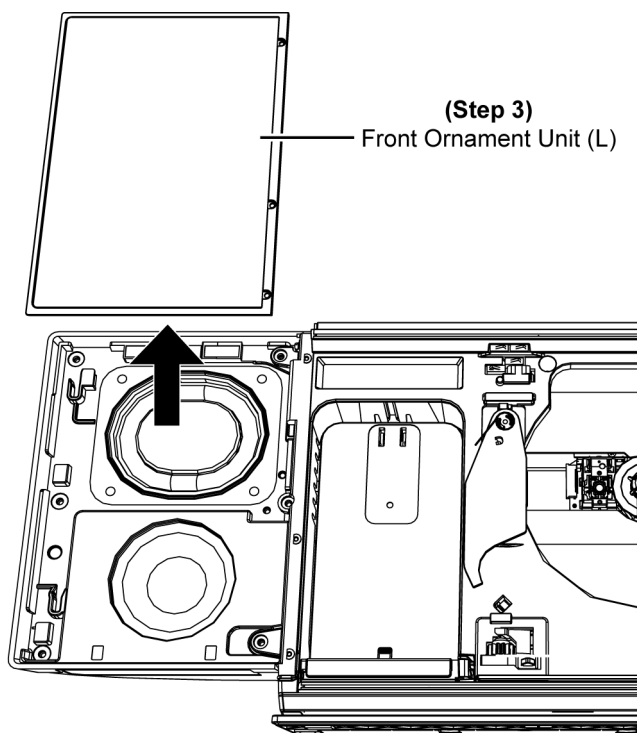
11.6.1. Disassembly of Front Ornament Unit (L)

Step 1 : Remove 3 screws.

Step 2 : Push the Front Ornament Unit (L) upwards.



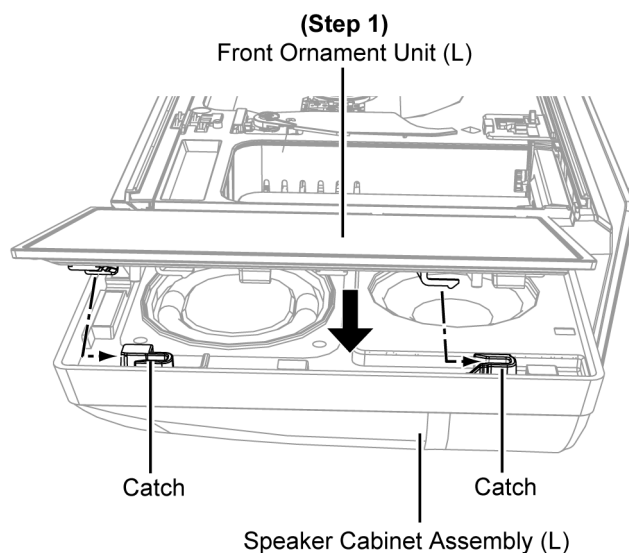
Step 3 : Remove the Front Ornament Unit (L).



11.6.2. Assembly of Front Ornament Unit (L)

Step 1 : Place the Front Ornament Unit (L) into the Speaker Cabinet Assembly (L).

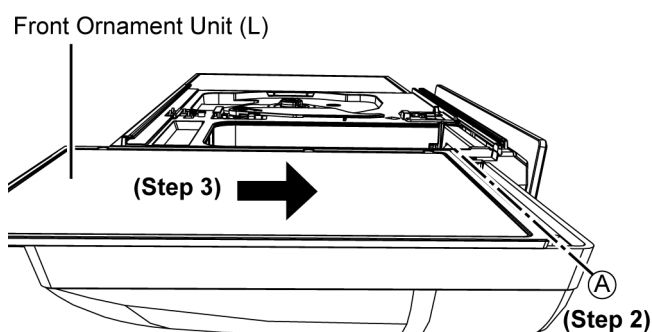
Caution : During assembling, ensure the Front Ornament Unit (L) is fully caught and inserted into the Speaker Cabinet Assembly (L).



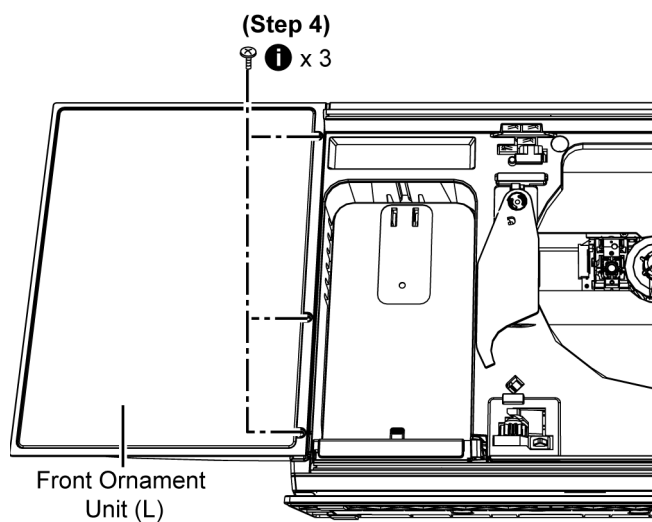
Step 2 : Align the Front Ornament Unit (L) into the Front Speaker Assembly (L) with the bottom end positioned at the dotted line.

Step 3 : Push down Front Ornament Unit (L) to fix it.

Caution : A “click” sound is heard when the Front Ornament Unit (L) is fully caught.



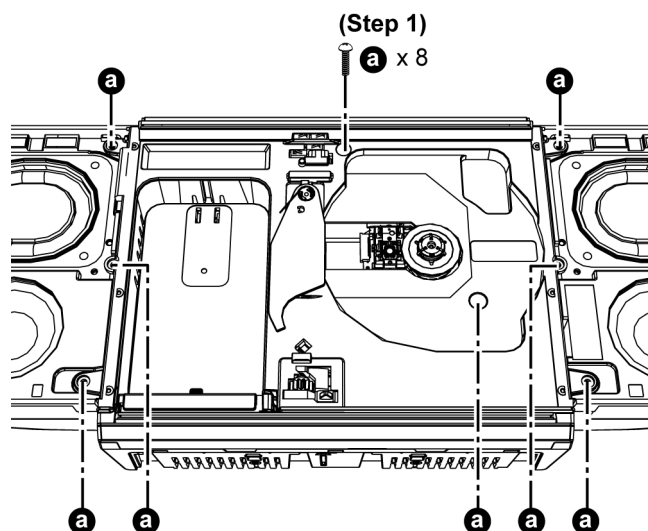
Step 4 : Fix 3 screws.



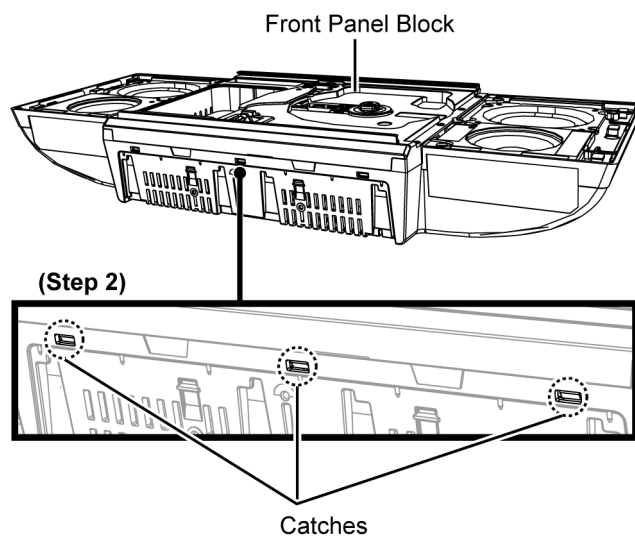
11.7. Disassembly of Front Panel Block

- Refer to "Disassembly of Base Stand Assembly"
- Refer to "Disassembly of Door Assembly"
- Refer to "Disassembly of Front Ornament Unit"

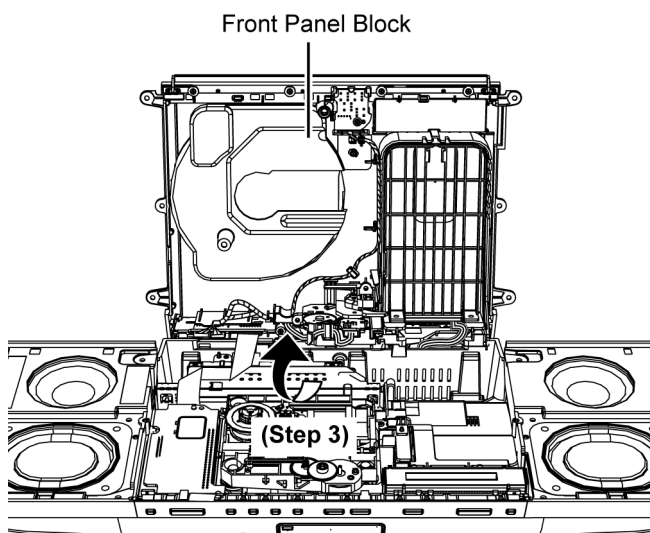
Step 1 : Remove 8 screws.



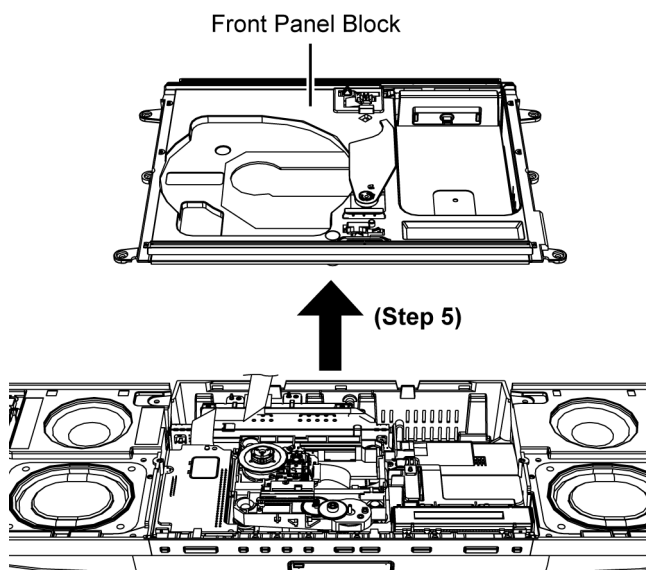
Step 2 : Release 3 catches on the Front Panel Block.



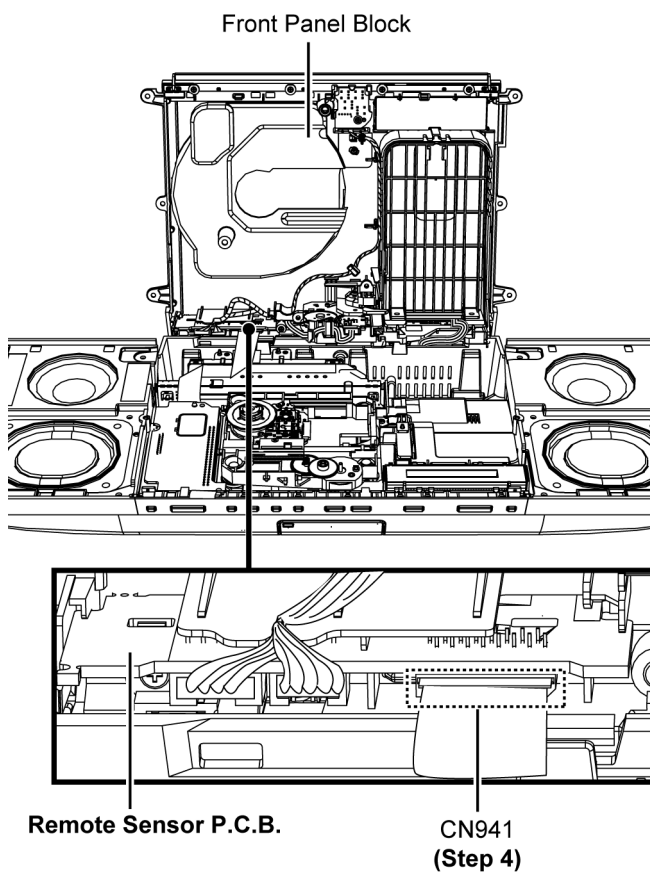
Step 3 : Slightly lift up the Front Panel Block.



Step 5 : Remove the Front Panel Block.



Step 4 : Detach 16P FFC at the connector (CN941) on the Remote Sensor P.C.B..

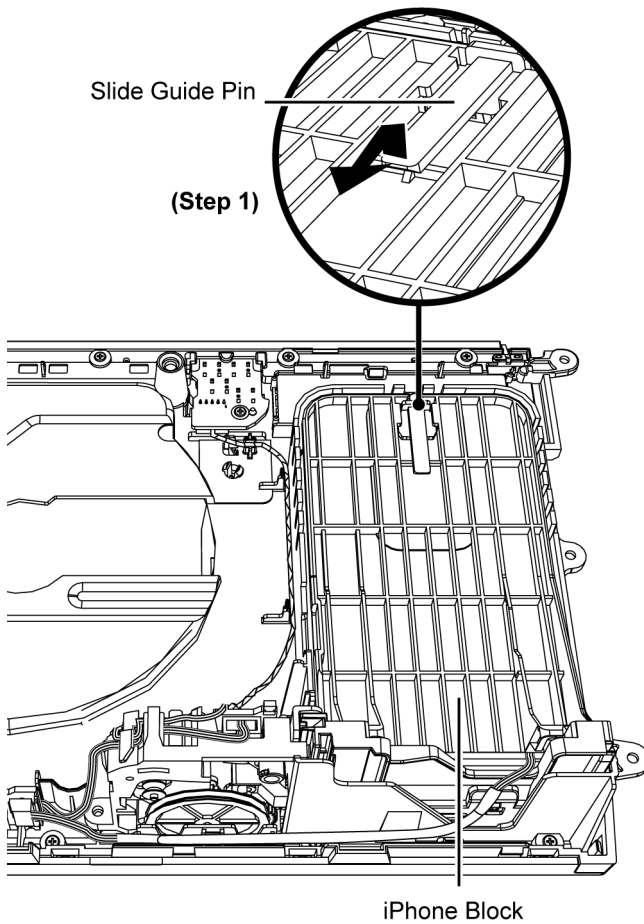


11.8. Replacement of iPhone Block

- Refer to "Disassembly of Base Stand Assembly"
- Refer to "Disassembly of Door Assembly"
- Refer to "Disassembly of Front Ornament Unit"
- Refer to "Disassembly of Front Panel Block"

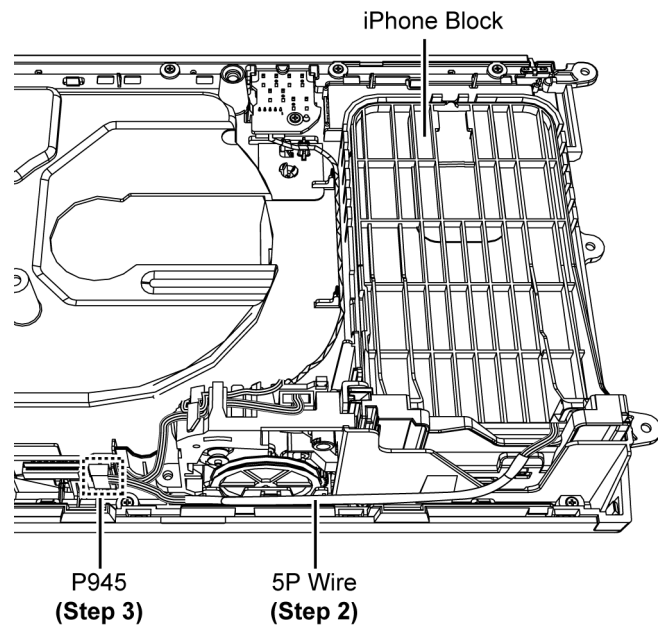
11.8.1. Disassembly of iPhone Block

Step 1 : Slightly lift up and remove the Slide Guide Pin as shown.

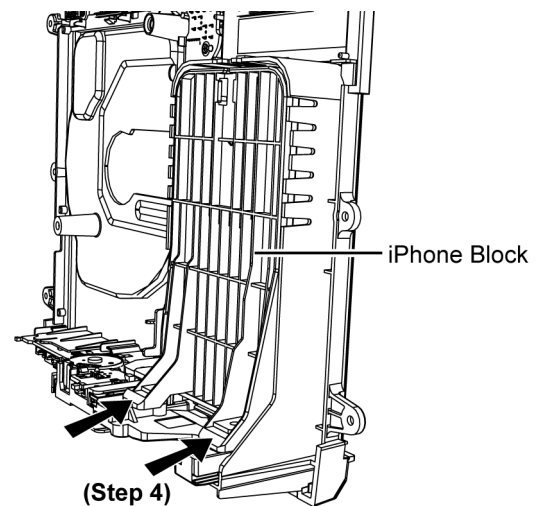


Step 2 : Release the 5P Wire.

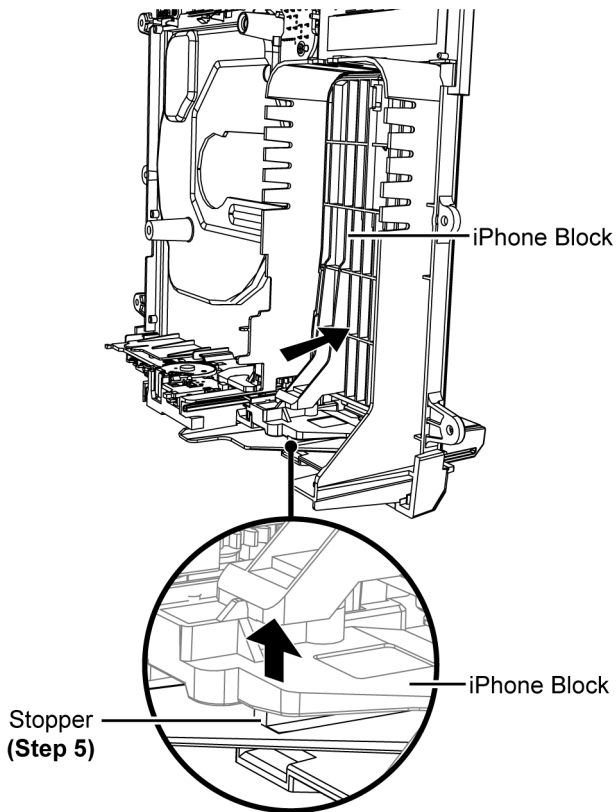
Step 3 : Detach 5P wire at the connector (P945) on the Remote Sensor P.C.B..



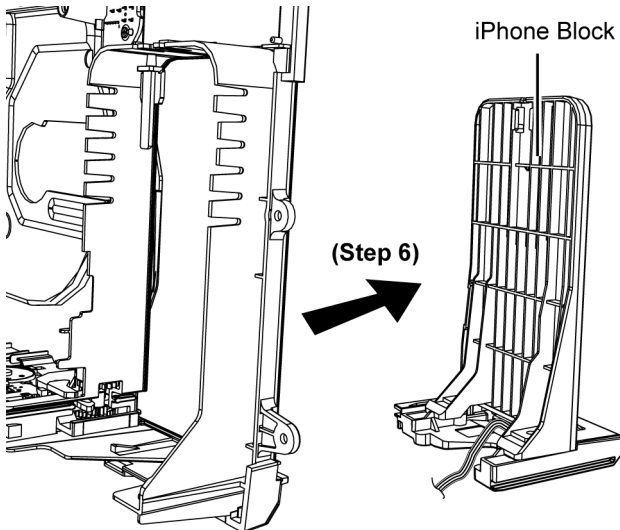
Step 4 : Push the iPhone Block forward until it come to a stop.



Step 5 : Slightly lift up the iPhone Block from Stopper area as shown and push forward.



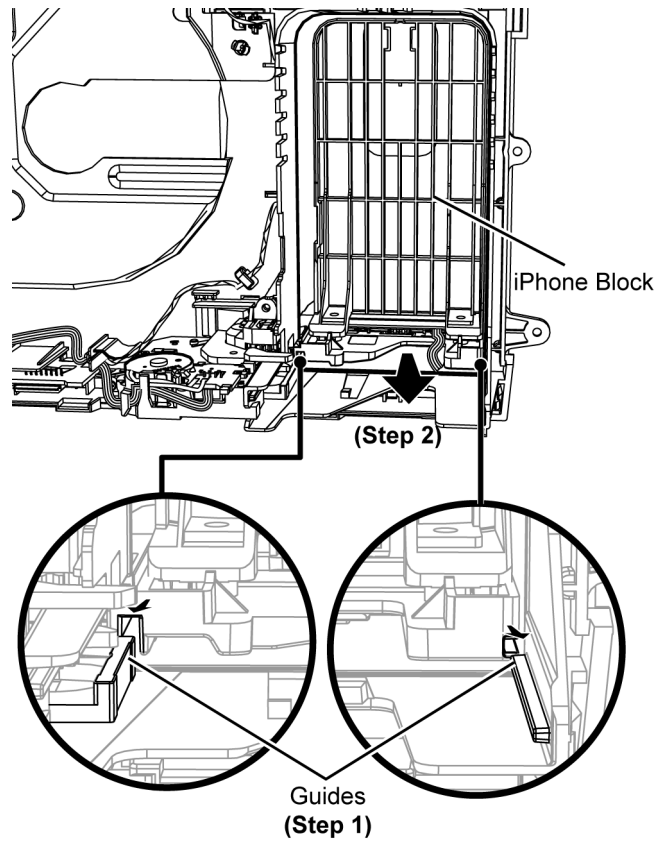
Step 6 : Remove the iPhone Block.



11.8.2. Assembly of iPhone Block

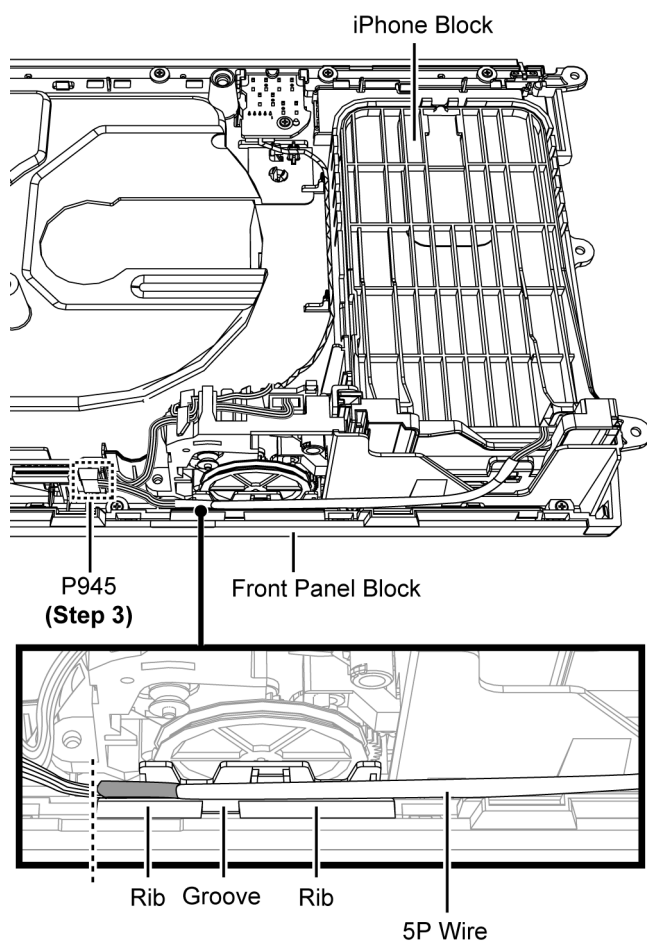
Step 1 : Align the iPhone Block with the guide on the Front Panel Assembly.

Step 2 : Gently push the iPhone Block until it is fully fixed.

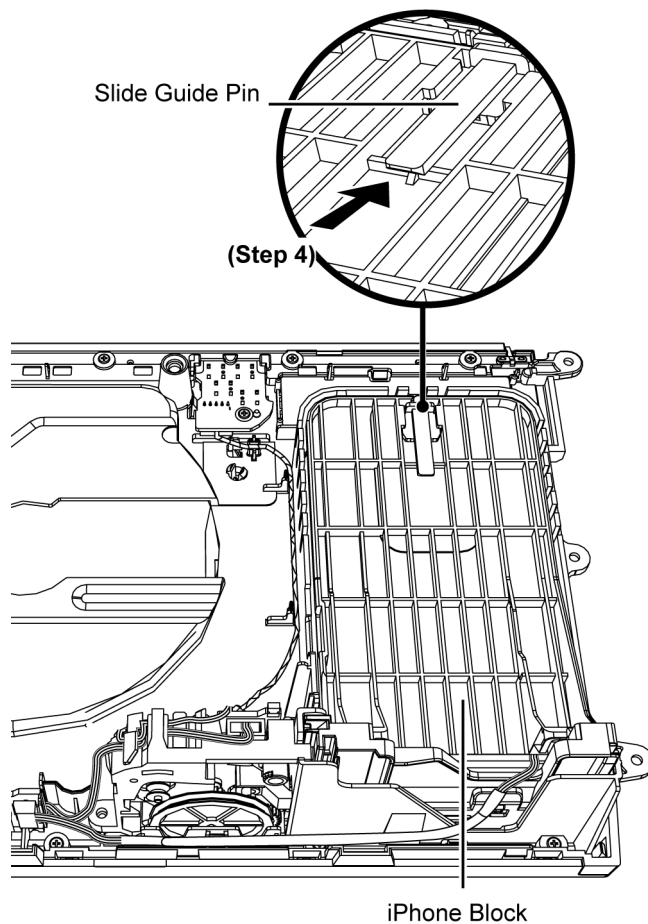


Step 3 : Connect 5P wire at the connector (P945) on the Remote Sensor P.C.B..

Caution : During assembling, dressed the 5P wire into the ribs of the Front Panel Block.



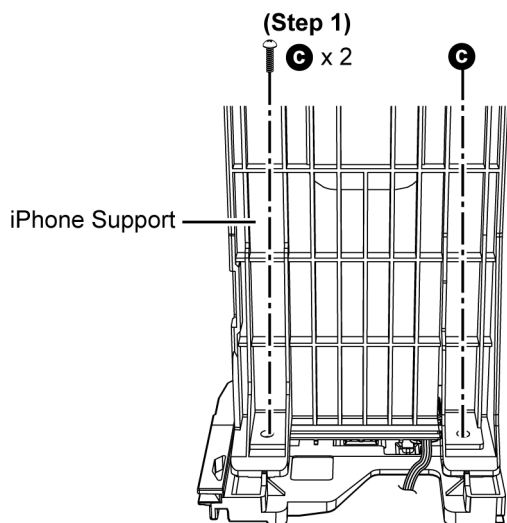
Step 4 : Gently push the Slide Guide Pin upwards. A “click” sound is heard when the Slide Guide Pin is fully caught.



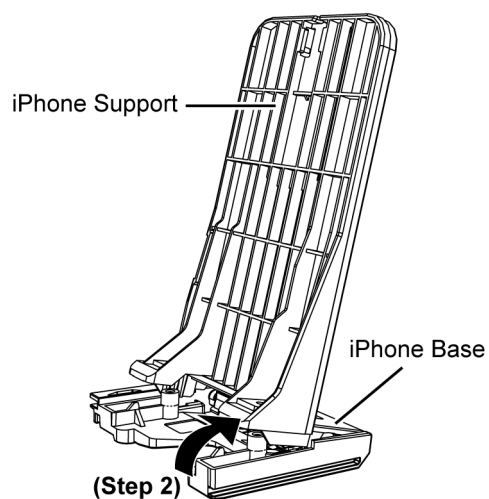
11.8.3. Disassembly of iPhone Support

- Refer to “Disassembly of iPhone Block”

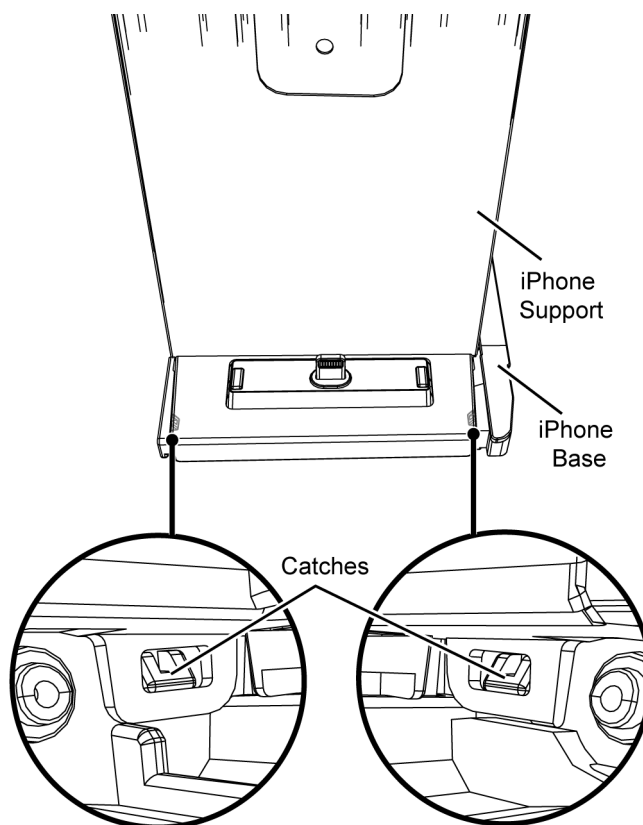
Step 1 : Remove 2 screws.



Step 2 : Remove iPhone Support as shown.



Caution : During assembling, ensure that the iPhone Support is properly catch & fix to the iPhone Base.

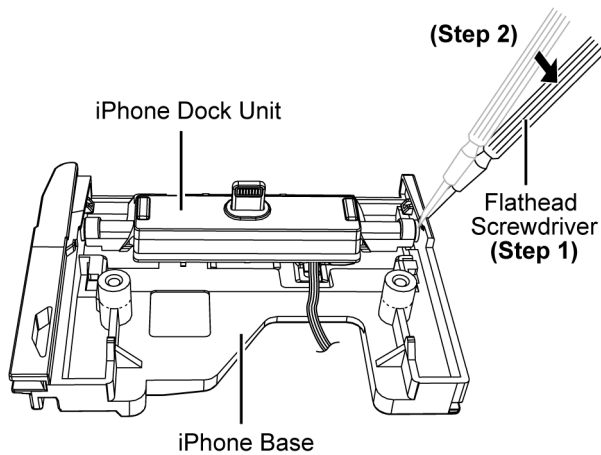


11.8.4. Disassembly of iPhone Base

- Refer to “Disassembly of iPhone Block”
- Refer to “Disassembly of iPhone Support”

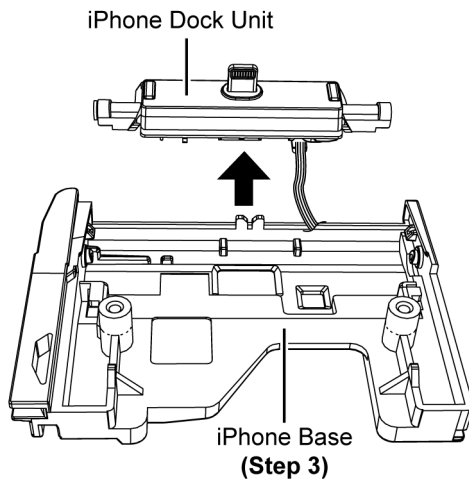
Step 1 : Insert a flathead screwdriver below the iPhone Base as shown.

Step 2 : Push outwards and lift up the screwdriver to release the pivot of the iPhone Base.



Step 3 : Lift up the iPhone Dock Unit.

Caution : During assembling, A “click” sound is heard when the iPhone Dock Unit is properly fixed.

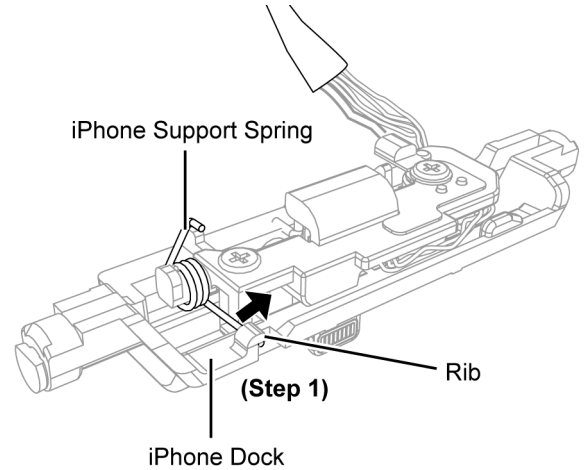


11.8.5. Disassembly of iPhone Support Spring

- Refer to “Disassembly of iPhone Block”
- Refer to “Disassembly of iPhone Support”
- Refer to “Disassembly of iPhone Base”

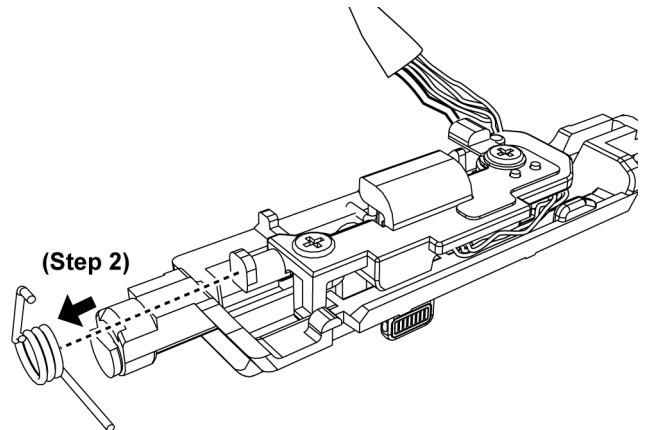
Step 1 : Release the iPhone Support Spring as shown.

Caution : During assembling, ensure iPhone Support Spring is properly fix under the rib at iPhone Dock.



Step 2 : Remove the iPhone Support Spring as shown.

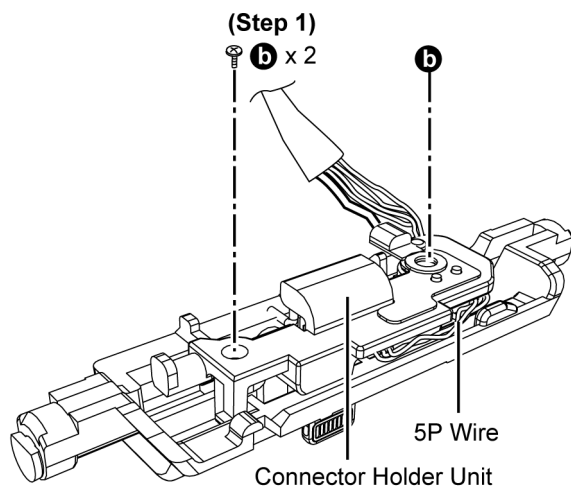
Caution : Keep the iPhone Support Spring in safe place and place them back during assembling.



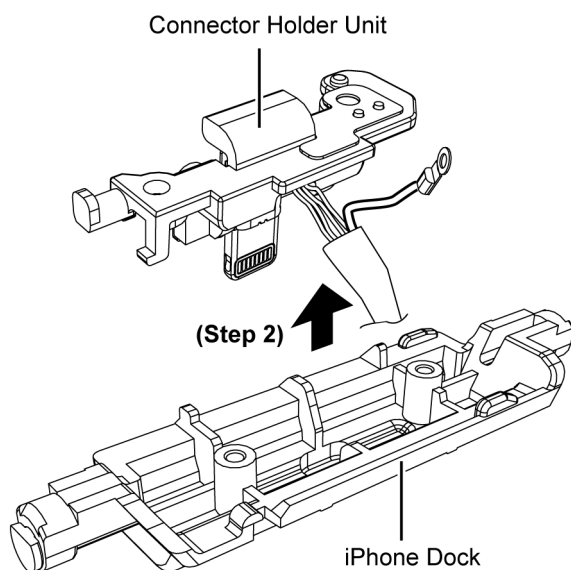
11.8.6. Disassembly of iPhone Dock

- Refer to “Disassembly of iPhone Block”
- Refer to “Disassembly of iPhone Support”
- Refer to “Disassembly of iPhone Base”
- Refer to “Disassembly of iPhone Support Spring”

Step 1 : Remove 2 screws.

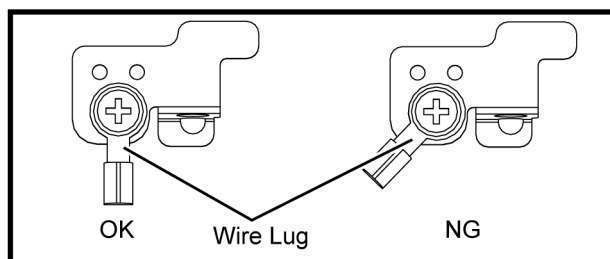
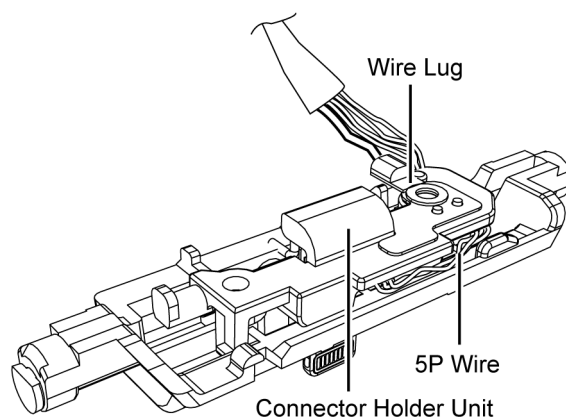


Step 2 : Lift up the Connector Holder Unit.



Caution 1 : Dress the 5P wire below Connector Holder Unit as shown.

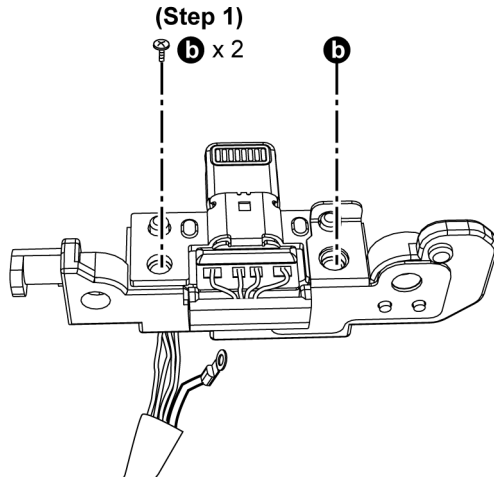
Caution 2 : During assembling, ensure grounding wire fix correctly & Wire Lug must be straight.



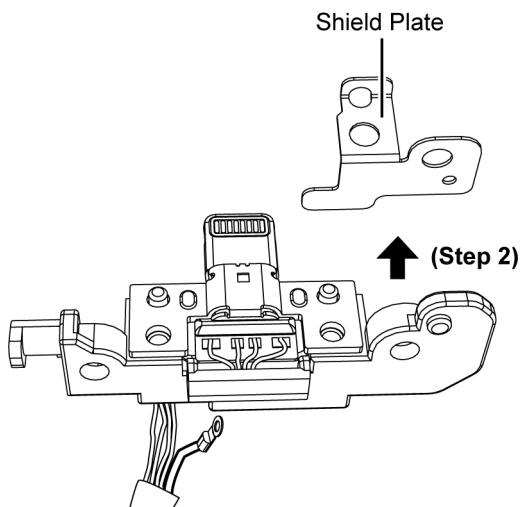
11.8.7. Disassembly of iPhone Connector Unit

- Refer to "Disassembly of iPhone Block"
- Refer to "Disassembly of iPhone Support"
- Refer to "Disassembly of iPhone Base"
- Refer to "Disassembly of iPhone Support Spring"
- Refer to "Disassembly of iPhone Dock"

Step 1 : Remove 2 screws.

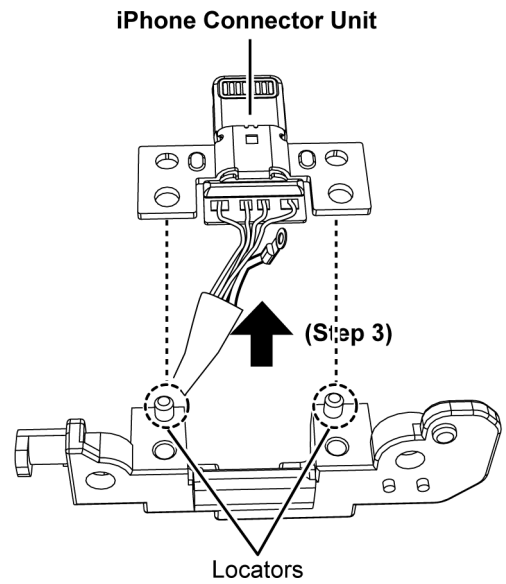


Step 2 : Remove the Shield Plate.

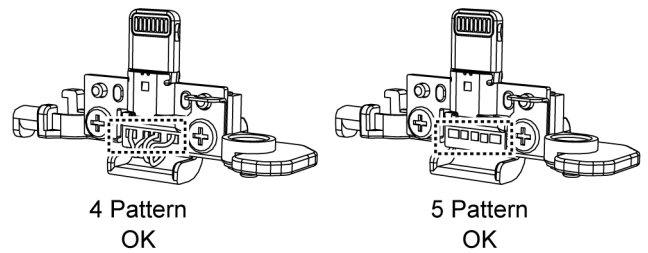


Step 3 : Remove the iPhone Connector Unit.

Caution : During assembling, ensure that the iPhone Connector Unit is properly seated onto the 2 locators.



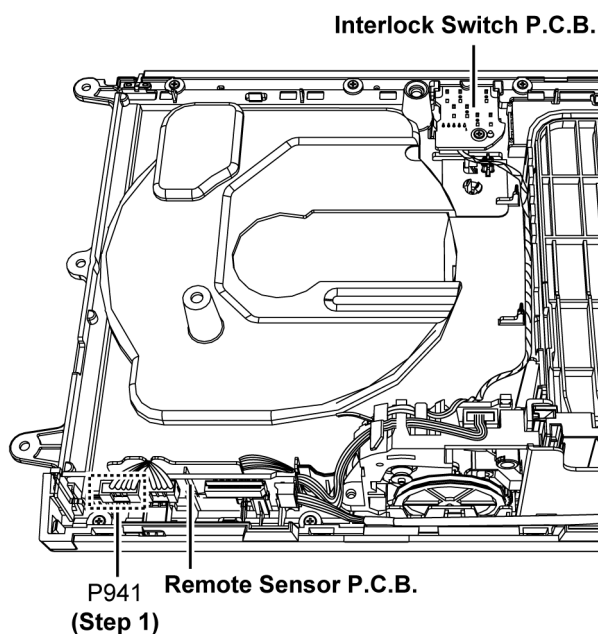
Caution : During assembling, ensure that the 4P wires face outwards as picture shown.



11.9. Disassembly of Interlock Switch P.C.B.

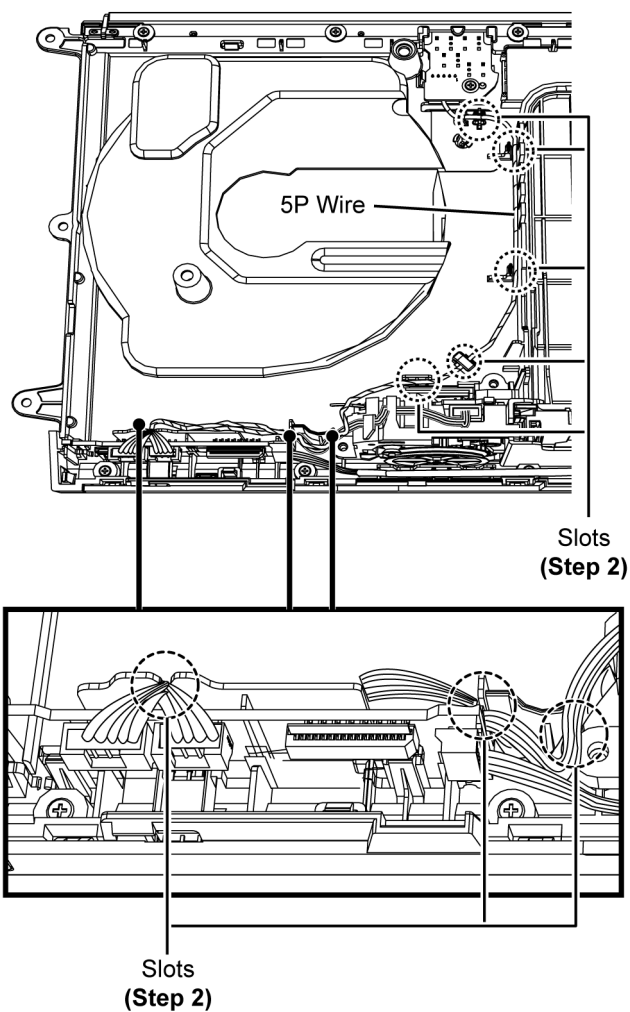
- Refer to “Disassembly of Base Stand Assembly”
- Refer to “Disassembly of Door Assembly”
- Refer to “Disassembly of Front Ornament Unit”
- Refer to “Disassembly of Front Panel Block”

Step 1 : Detach 5P wire at the connector (P941) on the Remote Sensor P.C.B..



Step 2 : Release the 5P Wire from the slots.

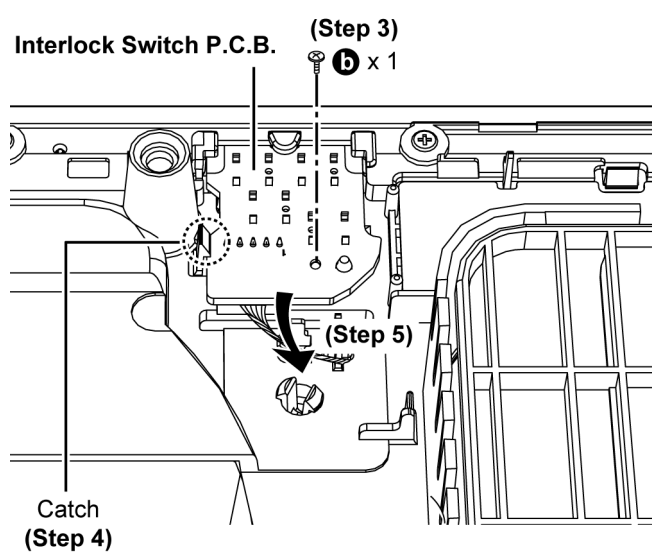
Caution : During assembling, dressed the 5P wire into the slots of the Front Panel Block.



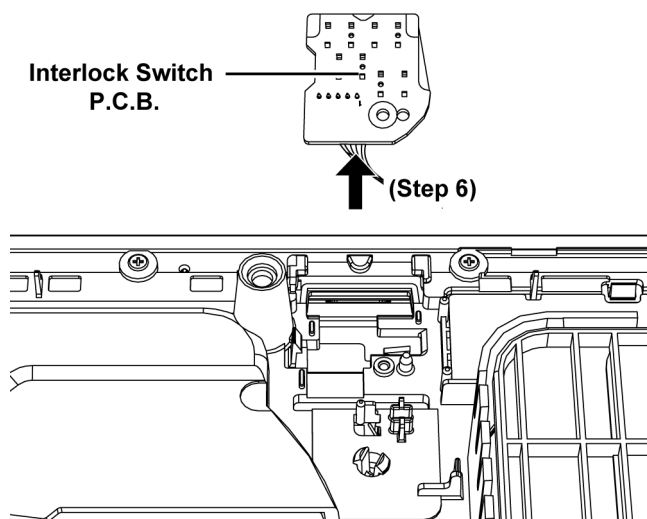
Step 3 : Remove 1 screw.

Step 4 : Release 1 catch.

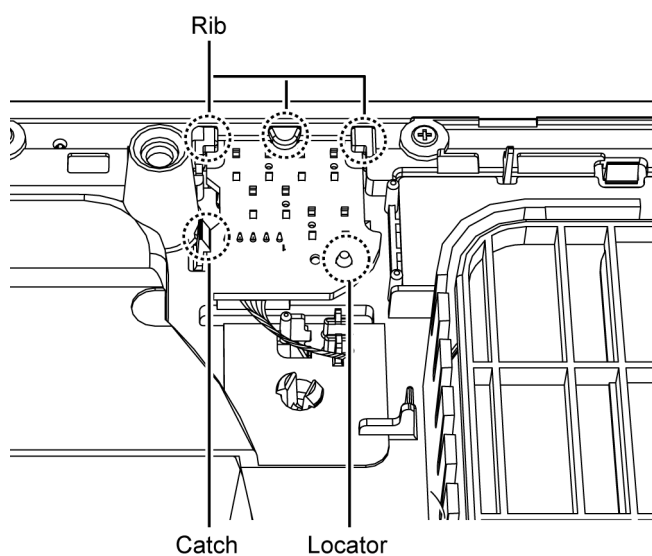
Step 5 : Lift up the Interlock Switch P.C.B as shown.



Step 6 : Remove the Interlock Switch P.C.B..



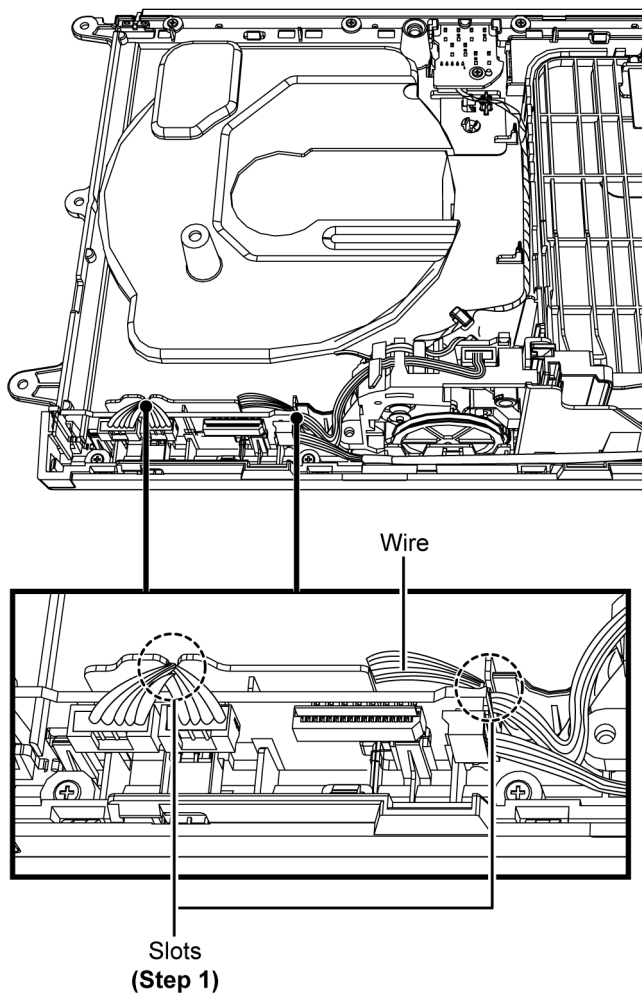
Caution : During assembling, place the Interlock Switch P.C.B. under the rib. Ensure the Interlock Switch P.C.B. is fully caught and properly seated on the locator.



11.10. Disassembly of Remote Sensor P.C.B.

- Refer to “Disassembly of Base Stand Assembly”
- Refer to “Disassembly of Door Assembly”
- Refer to “Disassembly of Front Ornament Unit”
- Refer to “Disassembly of Front Panel Block”

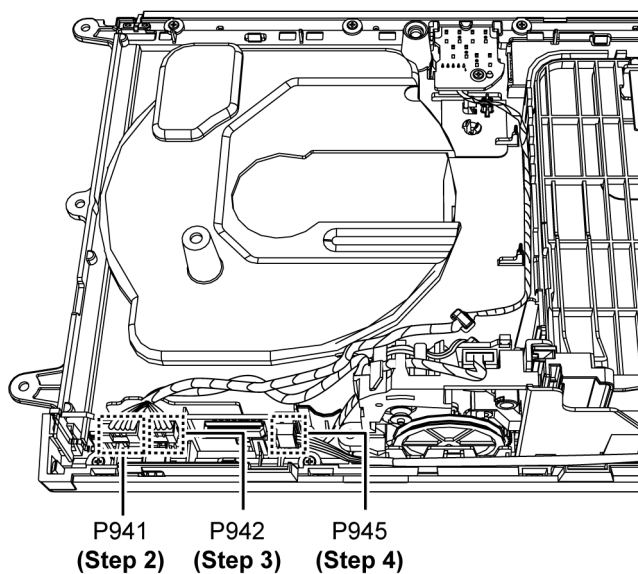
Step 1 : Release the Wires from the slots.



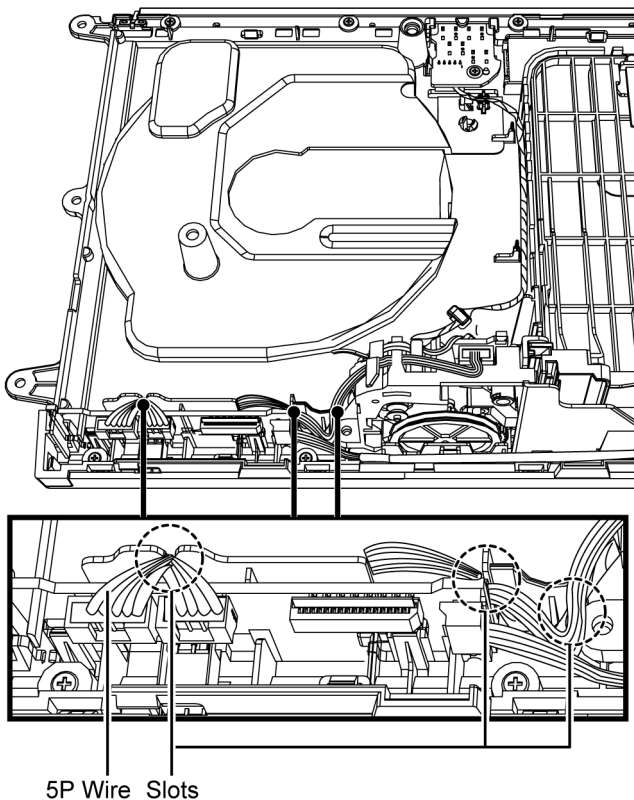
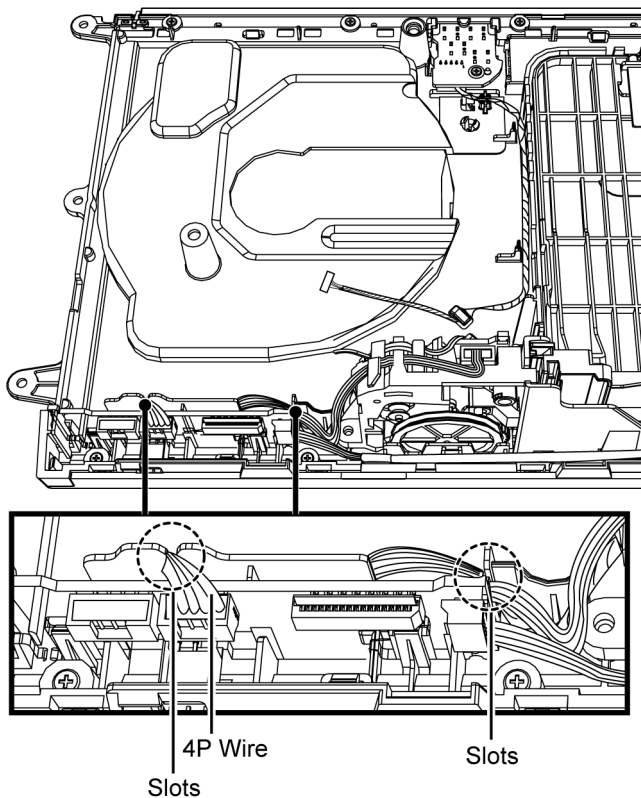
Step 2 : Detach 5P wire at the connector (P941) on the Remote Sensor P.C.B..

Step 3 : Detach 4P wire at the connector (P942) on the Remote Sensor P.C.B..

Step 4 : Detach 5P wire at the connector (P945) on the Remote Sensor P.C.B..

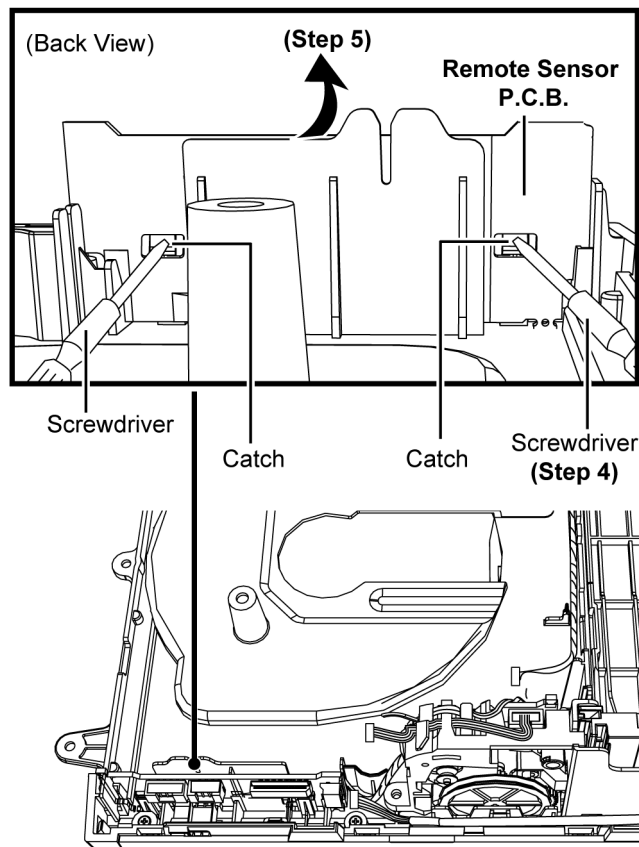


Caution : During assembling, dressed the 4P & 5P wires into the slots respectively.

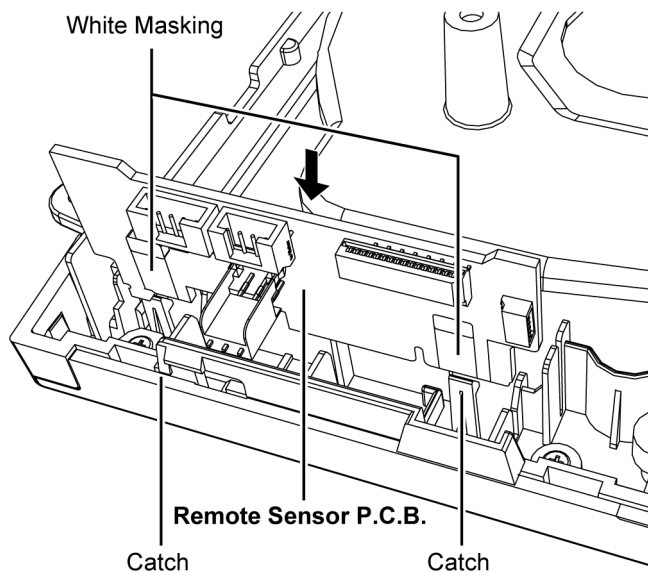
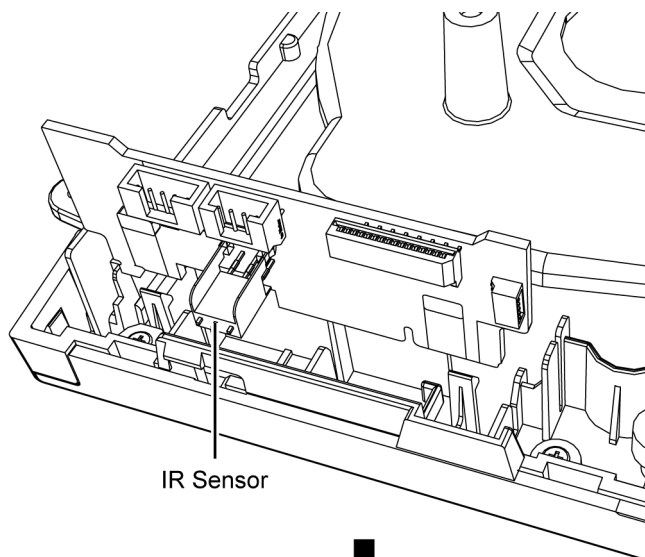


Step 4 : Use a Screwdriver to release 2 catches.

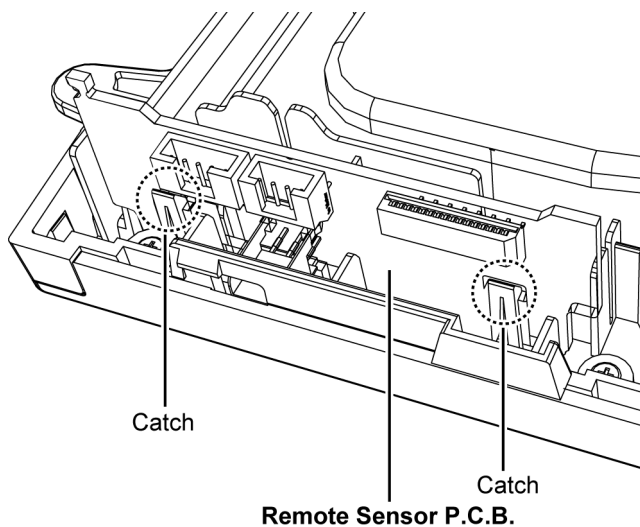
Step 5 : Lift up & remove the Remote Sensor P.C.B..



Caution : During assembling, align the Remote Sensor P.C.B. (with white masking) facing outwards & inserted into the Front Panel Block.



Caution : During assembling, ensure the Remote Sensor P.C.B. is seated properly and fully caught.

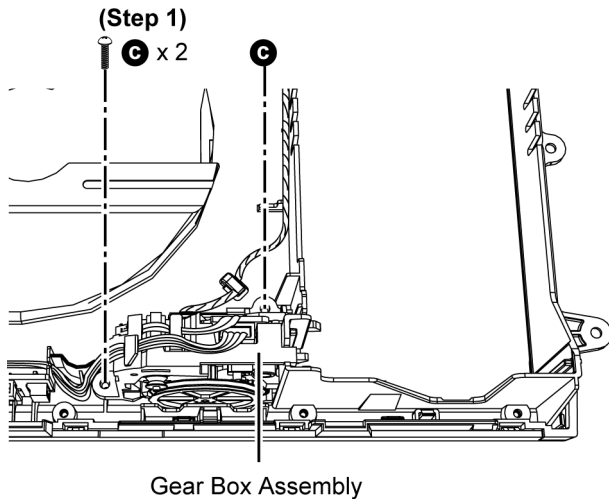


11.11. Replacement of Gear Box Assembly

- Refer to "Disassembly of Base Stand Assembly"
- Refer to "Disassembly of Door Assembly"
- Refer to "Disassembly of Front Ornament Unit"
- Refer to "Disassembly of Front Panel Block"
- Refer to "Disassembly of iPhone Block"

11.11.1. Disassembly of Gear Box Assembly

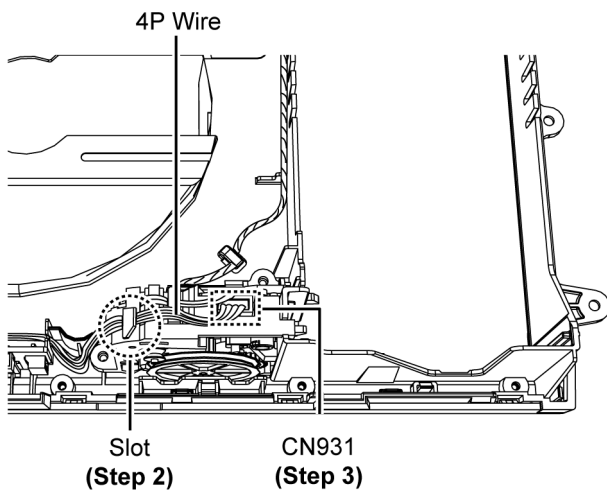
Step 1 : Remove 2 screws.



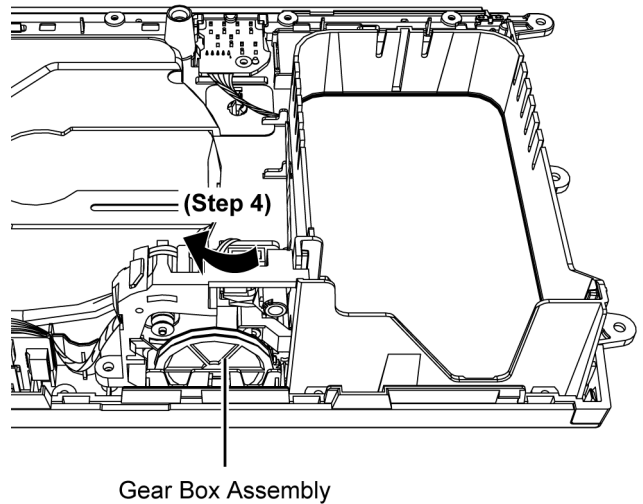
Step 2 : Release the 4P Wire from the slot.

Step 3 : Detach 4P wire at the connector (CN931) on the Motor P.C.B..

Caution : During assembling, dressed the 4P wire into the slot.

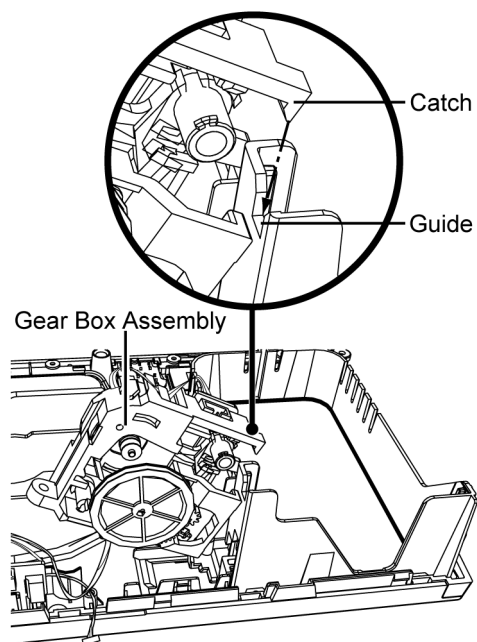


Step 4 : Remove the Gear Box Assembly as shown.

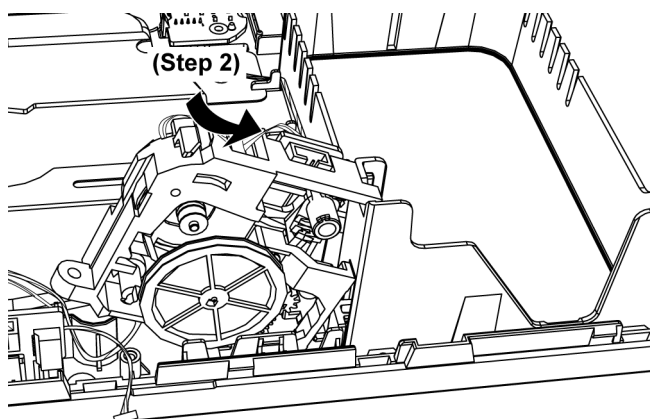


11.11.2. Assembly of Gear Box Assembly

Step 1 : Align the catch of the Gear Box Assembly with the guide on the Front Panel Block as shown.

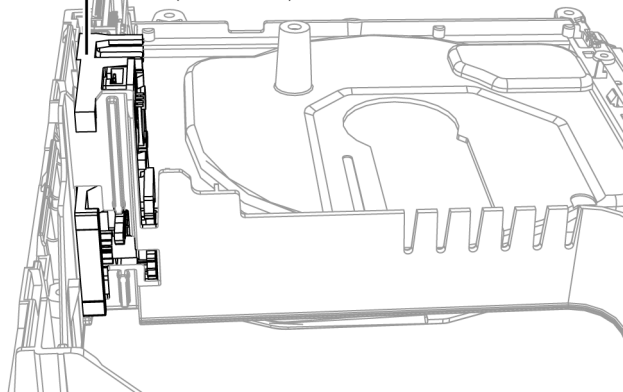
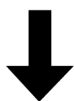


Step 2 : Slightly insert the Gear Box Assembly into the Front Panel Block as shown.



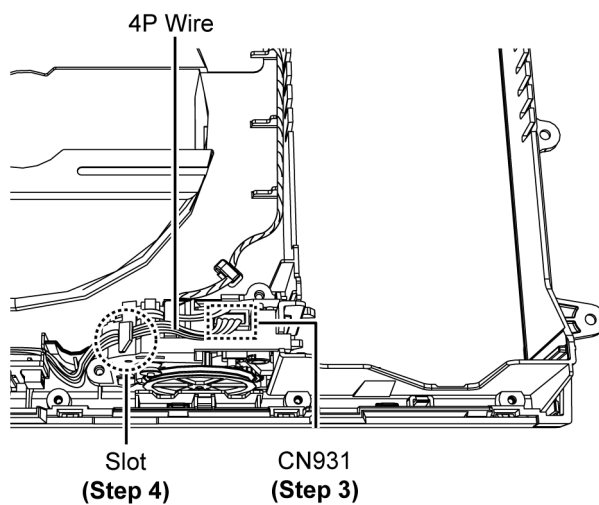
Gear Box Assembly

(Side View)

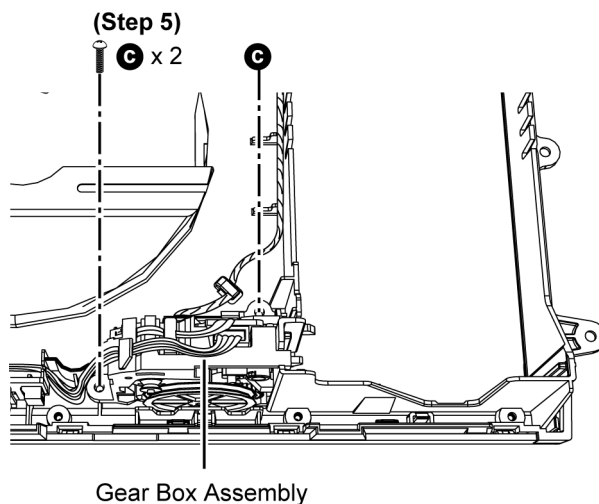


Step 3 : Connect 4P wire at the connector (CN931) on the Motor P.C.B..

Step 4 : Dress the 4P Wire into the slot.



Step 5 : Fix 2 screws.

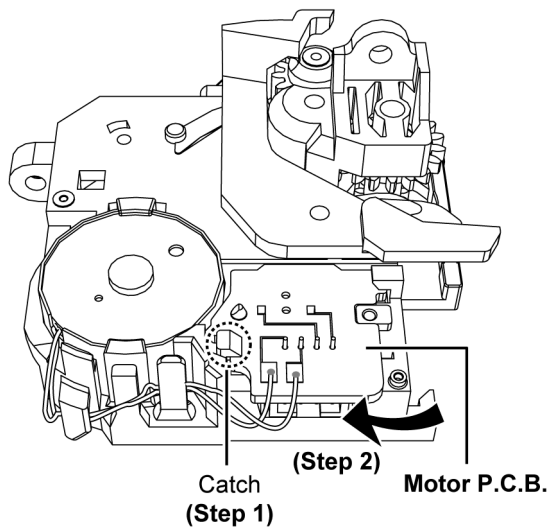


11.12. Disassembly of Motor P.C.B.

- Refer to "Disassembly of Gear Box Assembly"

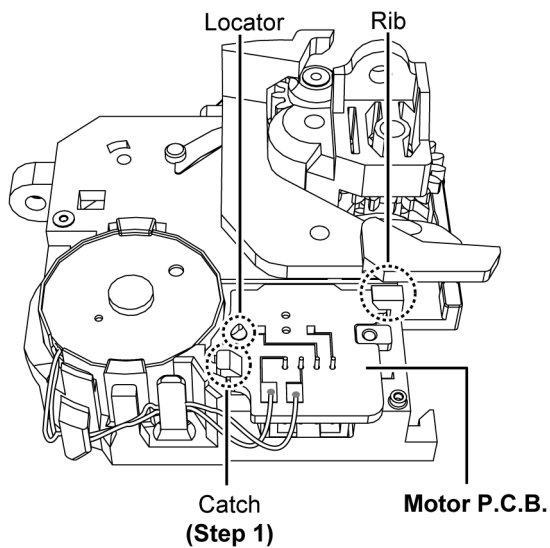
Step 1 : Release 1 catch.

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



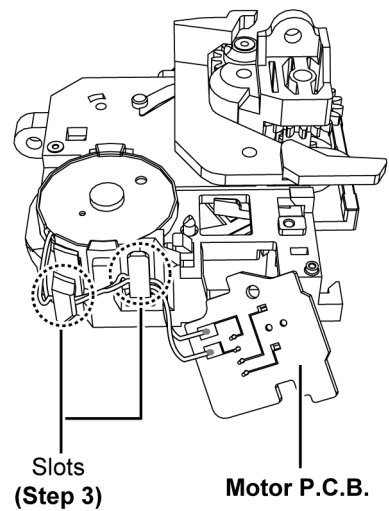
Caution 1 : During assembling, insert the Motor P.C.B. underneath the rib.

Caution 2 : During assembling, ensure the Motor P.C.B. is fully caught and seated on the locator.

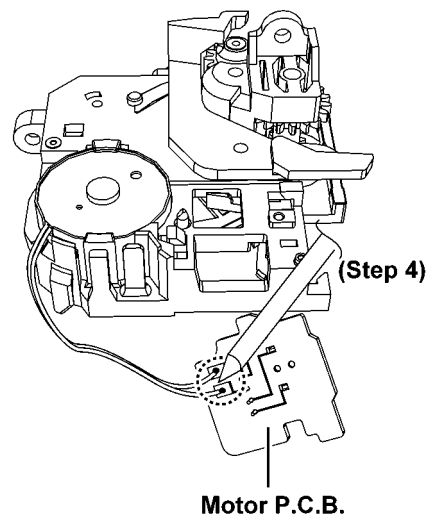


Step 3 : Release the 2P Wire from the slots.

Caution : During assembling, dressed the 2P wire into the slots.



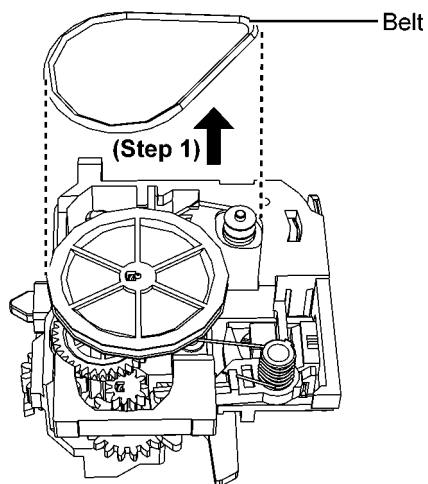
Step 4 : Desolder pins on the solder side of the Motor P.C.B. and remove the Motor P.C.B..



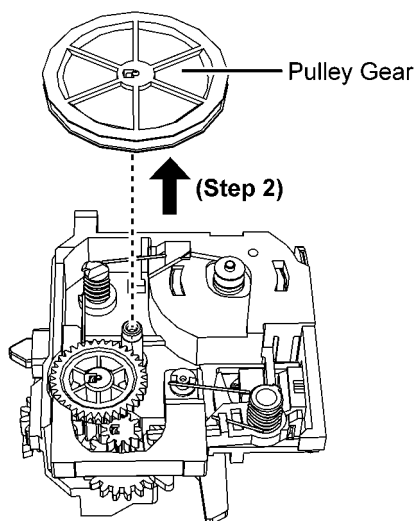
11.13. Disassembly of Belt & Pulley Gear

- Refer to “Disassembly of Gear Box Assembly”

Step 1 : Remove the Belt.



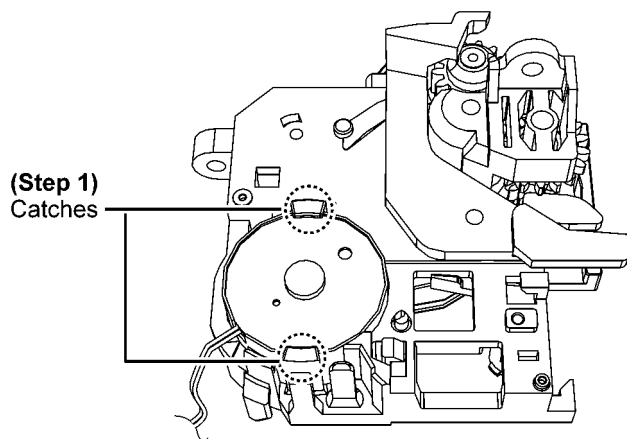
Step 2 : Remove the Pulley Gear.



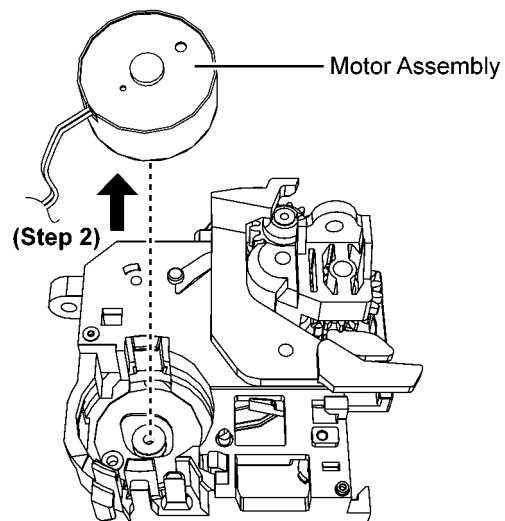
11.14. Disassembly of Motor Assembly

- Refer to “Disassembly of Gear Box Assembly”
- Refer to “Disassembly of Motor P.C.B.”
- Refer to (Step 1) of item 11.13.

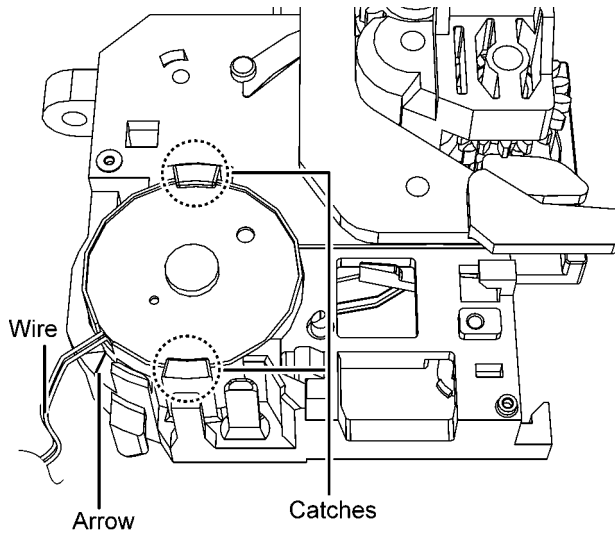
Step 1 : Release 2 catches.



Step 2 : Remove the Motor Assembly.



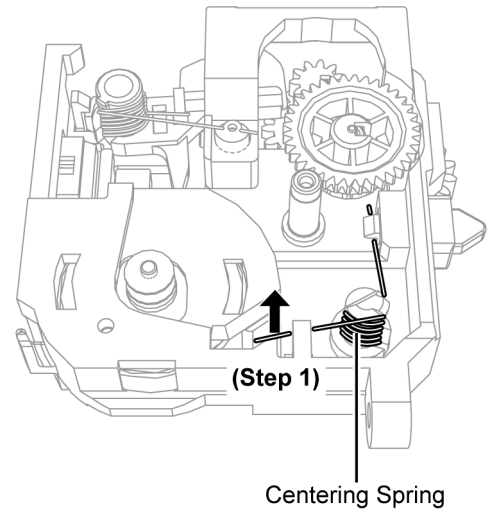
Caution 1 : During assembling, position & align the Motor wire with the indicated arrow on the Gear Box Assembly.
Caution 2 : During assembling, ensure the Motor Assembly is fully caught & seated properly.



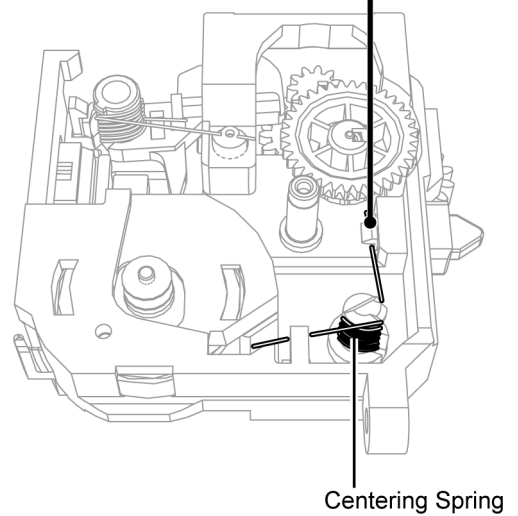
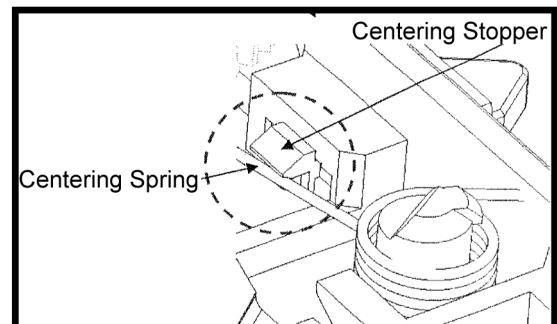
11.15. Disassembly of Centering Spring & Centering Stopper

- Refer to "Disassembly of Gear Box Assembly"
- Refer to "Disassembly of Belt & Pulley Gear"

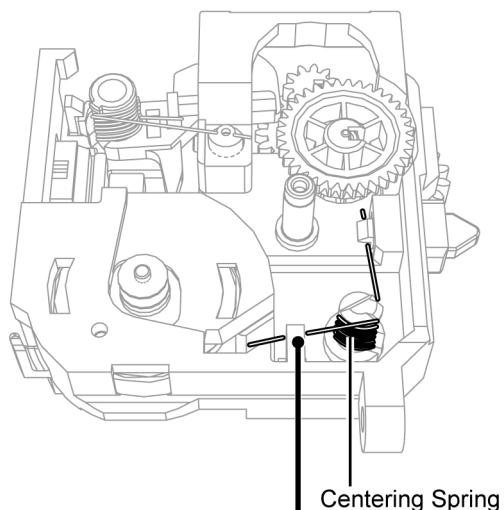
Step 1 : Release the Centering Spring as shown.



Caution : During assembling, placed the Centering Spring underneath the rib of the Centering Stopper.



Caution : During assembling, placed the Centering Spring underneath the hook of the gear box assembly.



Caution 2 :

Hook

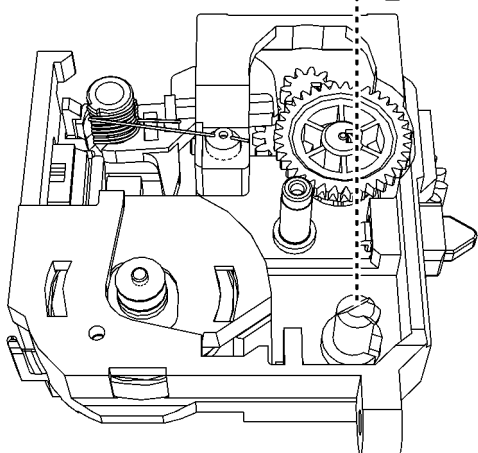
Centering Spring

Step 2 : Remove the Centering Spring.

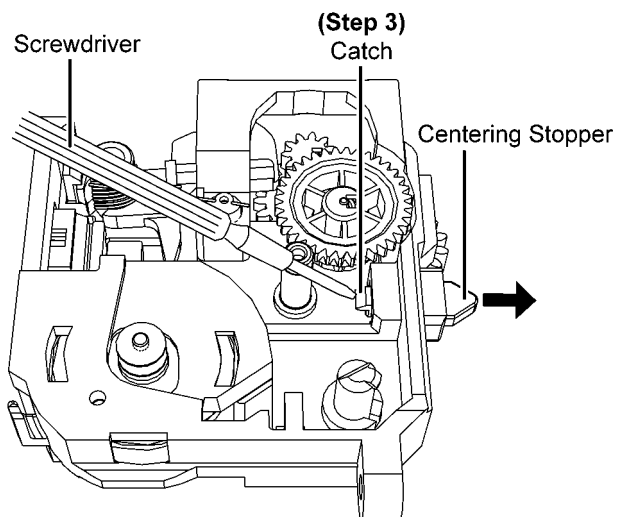
Caution : Keep the Centering Spring in safe place and place them back during assembling.

Centering Spring

(Step 2)

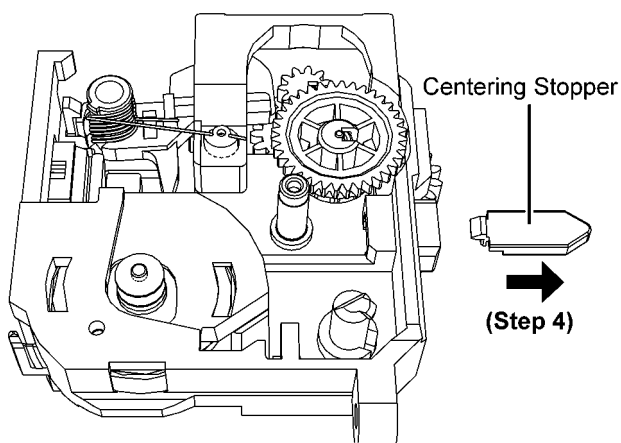


Step 3 : Press to release 1 catch as shown.



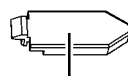
Step 4 : Remove the Centering Stopper.

Caution : During assembling, insert the Centering Stopper with flat surface facing upwards as shown below. A "click" sound will be heard when it is properly caught.

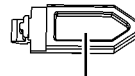


OK

NG



Flat

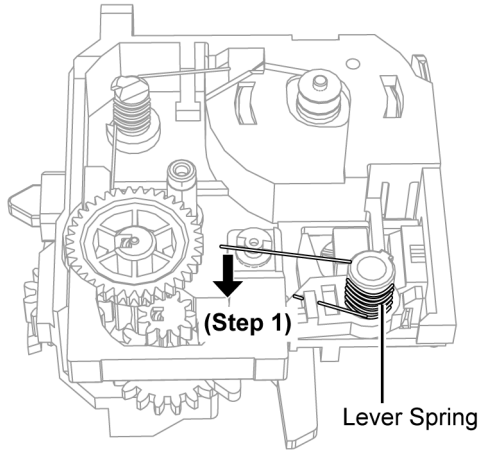


Hole

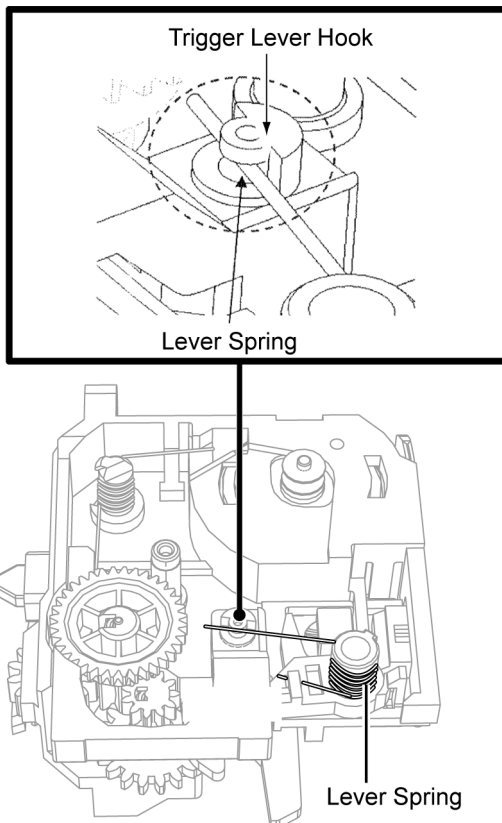
11.16. Disassembly of Lever Spring, Trigger Lever & Driver Gear A

- Refer to "Disassembly of Gear Box Assembly"
- Refer to "Disassembly of Belt & Pulley Gear"

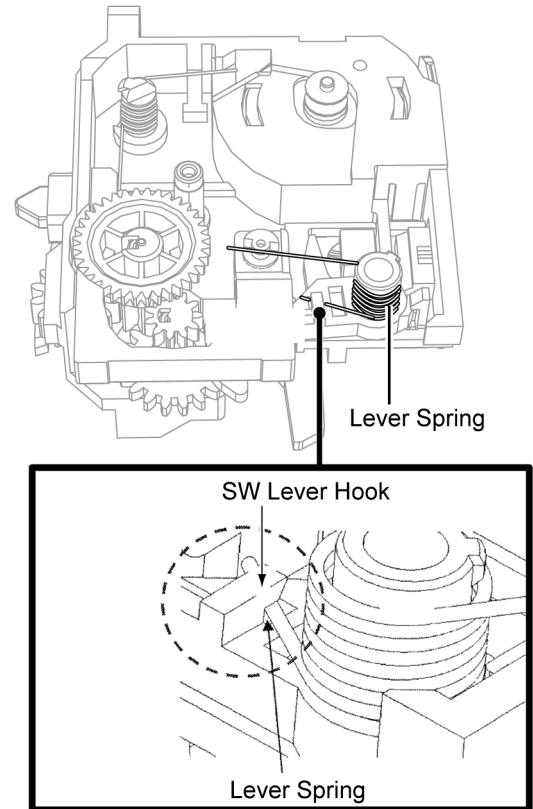
Step 1 : Release the Lever Spring as shown.



Caution : During assembling, placed the Lever Spring underneath Trigger Lever Hook.

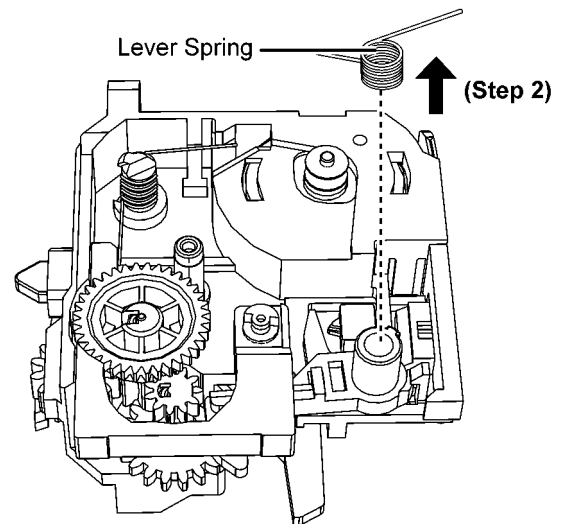


Caution : During assembling, placed the Lever Spring underneath SW Lever Hook.



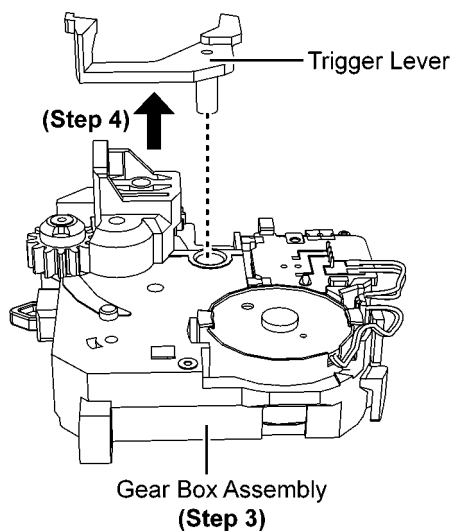
Step 2 : Remove the Lever Spring.

Caution : Keep the Lever Spring in safe place and place them back during assembling.

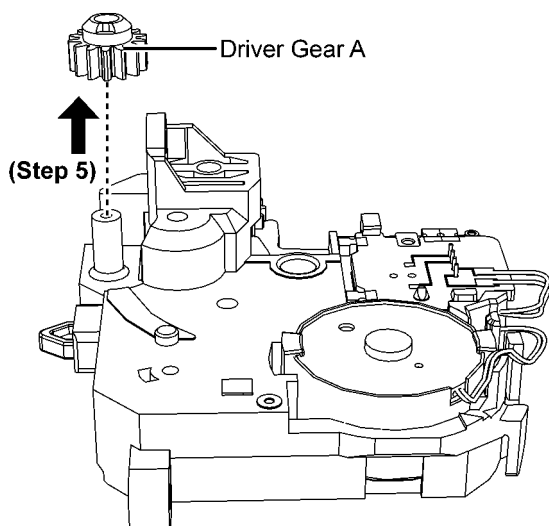


Step 3 : Upset the Gear Box Assembly.

Step 4 : Remove the Trigger Lever.



Step 5 : Remove the Driver Gear A.

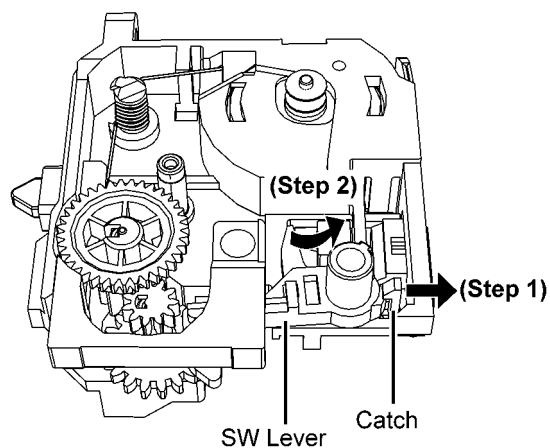


11.17. Disassembly of SW Lever, Relay Gear & Driver Gear B

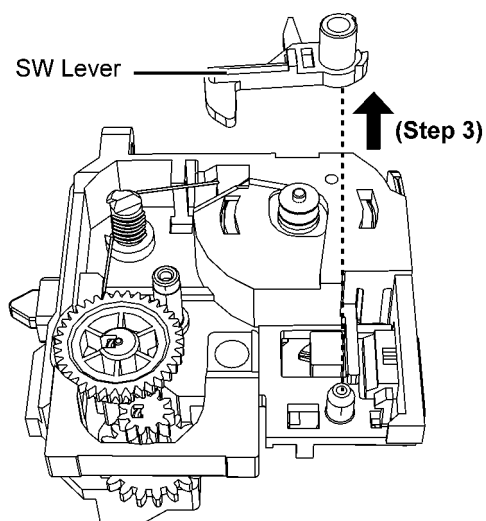
- Refer to "Disassembly of Gear Box Assembly"
- Refer to "Disassembly of Belt & Pulley Gear"
- Refer to "Disassembly of Lever Spring, Trigger Lever & Driver Gear A"

Step 1 : Release 1 catch as shown.

Step 2 : Lift up the SW Lever as shown.

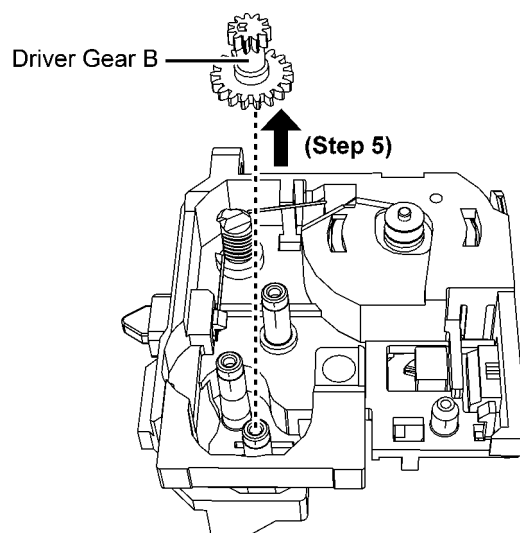
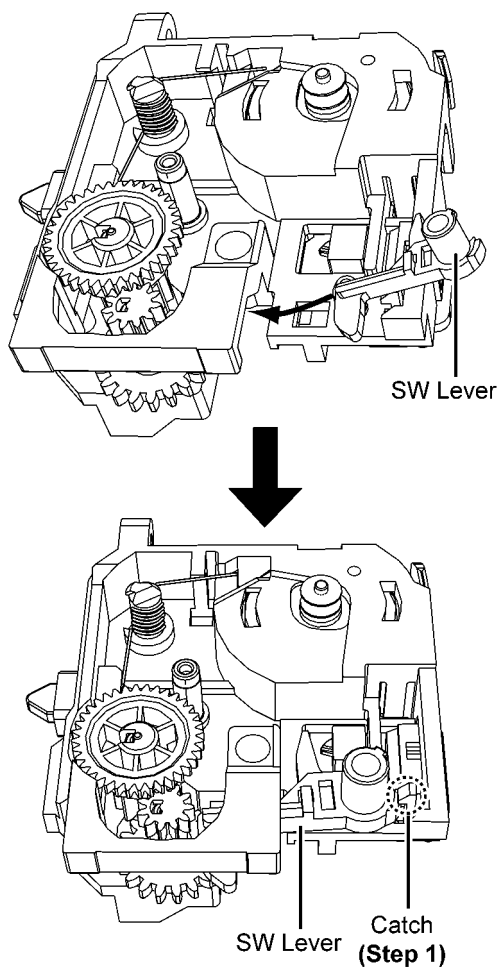


Step 3 : Remove the SW Lever.

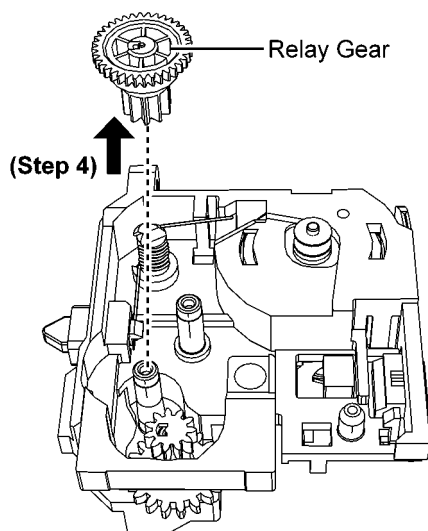


Caution : During assembling, a “click” sound could be heard when the SW Lever is fully caught.

Step 5 : Remove the Driver Gear B.



Step 4 : Remove the Relay Gear.

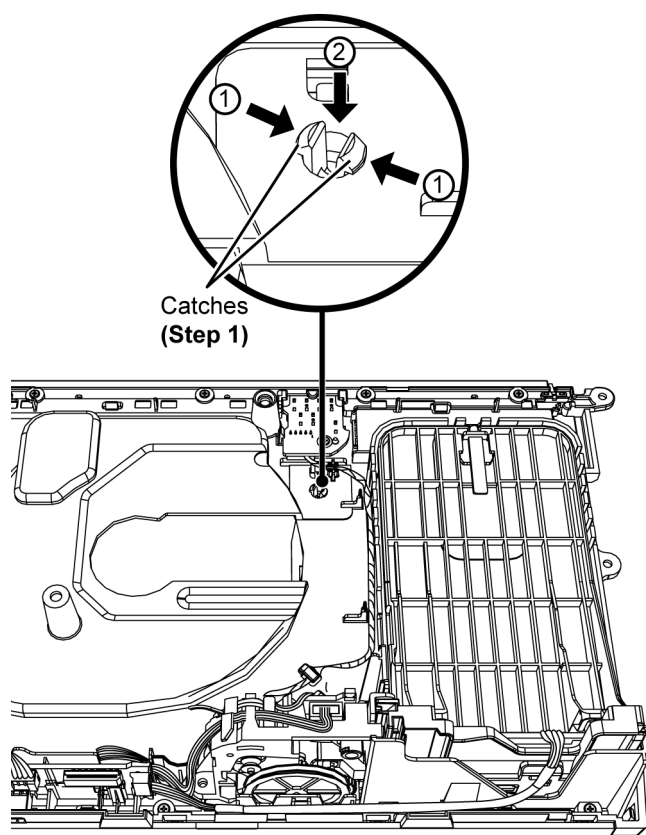


11.18. Disassembly of Shutter & Shutter Spring

- Refer to “Disassembly of Base Stand Assembly”
- Refer to “Disassembly of Door Assembly”
- Refer to “Disassembly of Front Ornament Unit”
- Refer to “Disassembly of Front Panel Block”

Step 1 : Press the catches inwards and push the Shutter downwards in order of sequences (1) to (2).

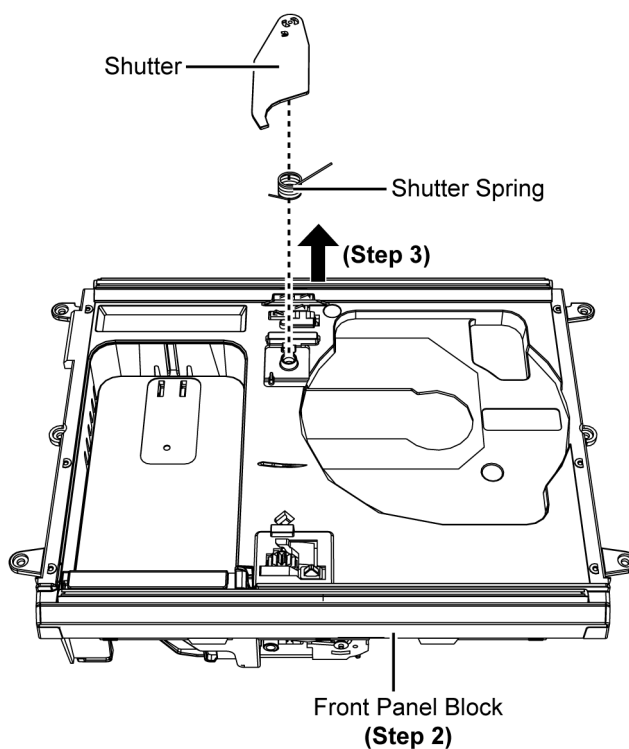
Caution : During assembling, ensure the Shutter is fully caught.



Step 2 : Upset the Front Panel Block.

Step 3 : Remove the Shutter & Shutter Spring.

Caution : Keep the Shutter Spring in safe place and place them back during assembling.

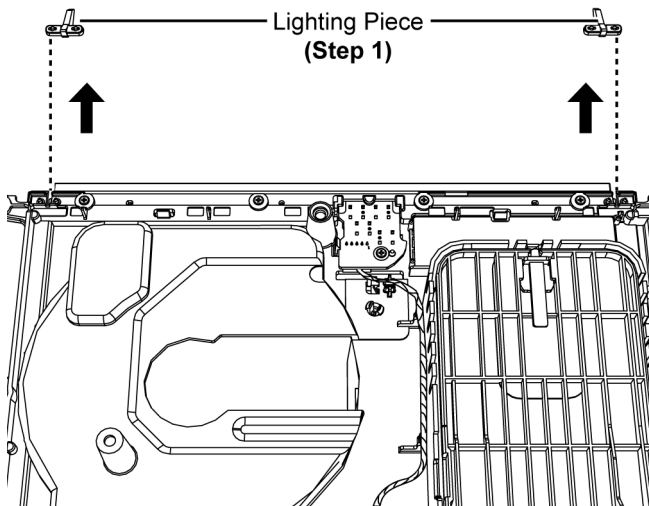


11.19. Disassembly of Upper Guide Rail & Top Ornament

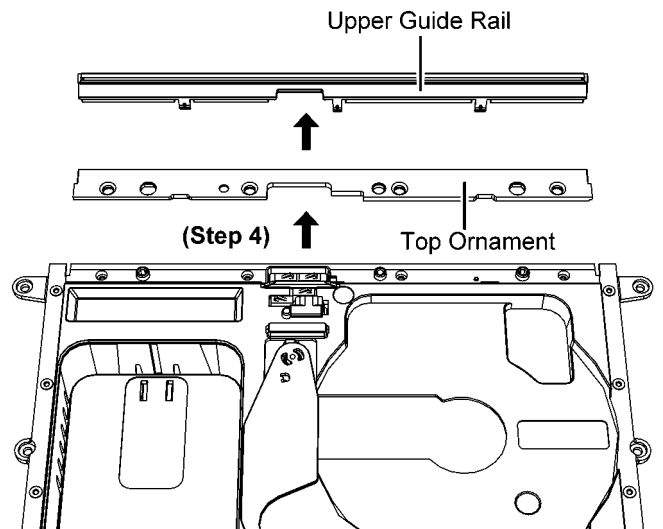
- Refer to "Disassembly of Base Stand Assembly"
- Refer to "Disassembly of Door Assembly"
- Refer to "Disassembly of Front Ornament Unit"
- Refer to "Disassembly of Front Panel Block"

Step 1 : Lift up & remove the Lighting Pieces as show.

Caution : Keep the Lighting Pieces in safe place and place them back during assembling.



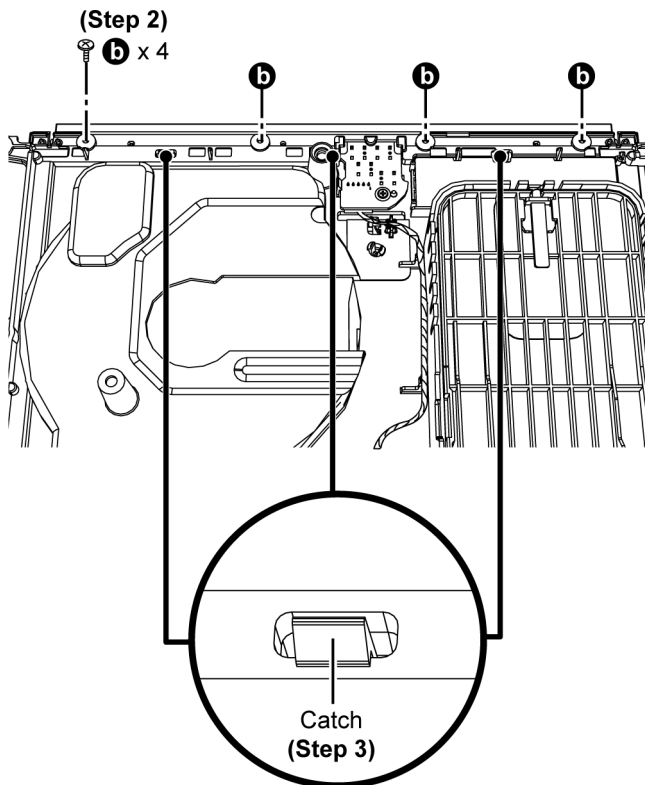
Step 4 : Remove the Upper Guide Rail & the Top Ornament.



Step 2 : Remove 4 screws.

Step 3 : Release 3 catches.

Caution : During assembling, ensure the Upper Guide Rail is fully caught to the Front Panel Block.

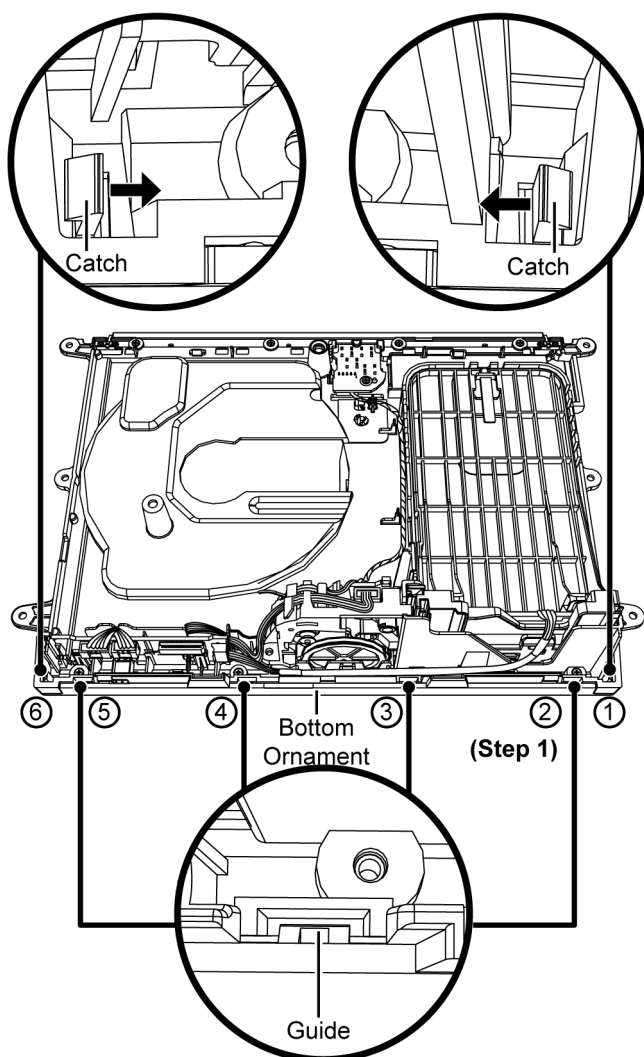


11.20. Disassembly of Bottom Ornament

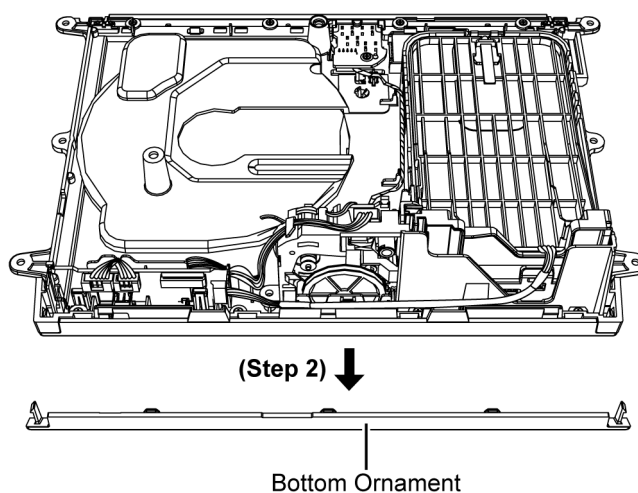
- Refer to “Disassembly of Base Stand Assembly”
- Refer to “Disassembly of Door Assembly”
- Refer to “Disassembly of Front Ornament Unit”
- Refer to “Disassembly of Front Panel Block”

Step 1 : Release two catches & guide by sequence (1) to (6) as shown.

Caution : During assembling, ensure the Bottom Ornament is fully caught to the Front Panel Block.



Step 2 : Remove the Bottom Ornament.

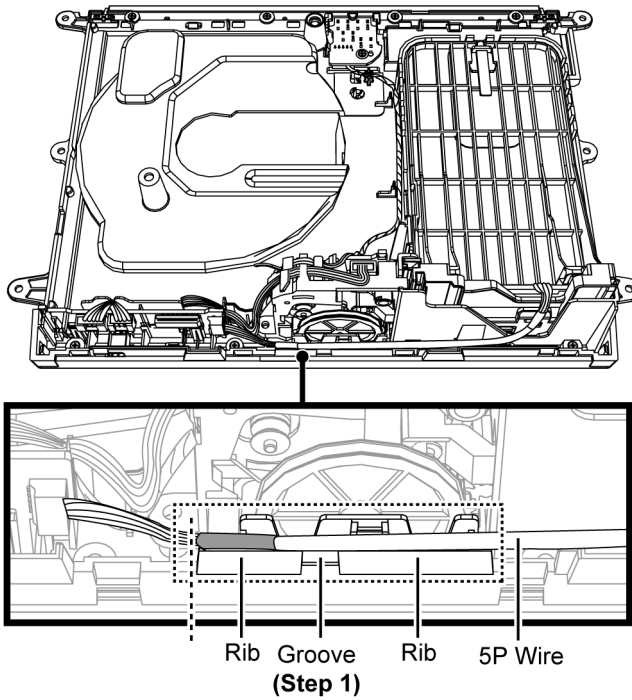


11.21. Disassembly of Lower Guide Rail

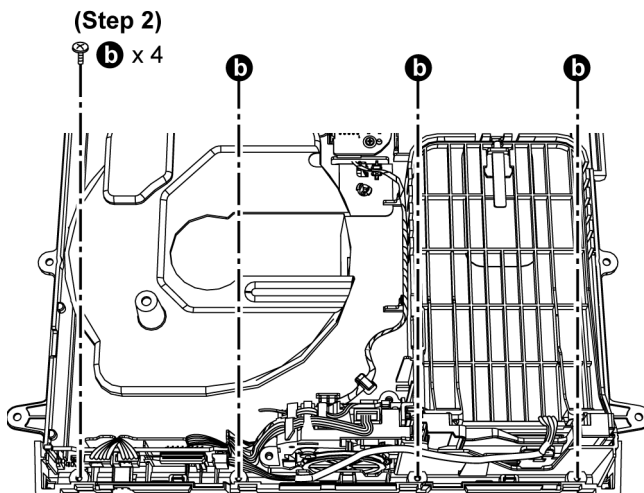
- Refer to "Disassembly of Base Stand Assembly"
- Refer to "Disassembly of Door Assembly"
- Refer to "Disassembly of Front Ornament Unit"
- Refer to "Disassembly of Front Panel Block"
- Refer to "Disassembly of Bottom Ornament"

Step 1 : Release the 5P Wire from the groove.

Caution : During assembling, dressed the 5P wire into the ribs of the Front Panel Block.

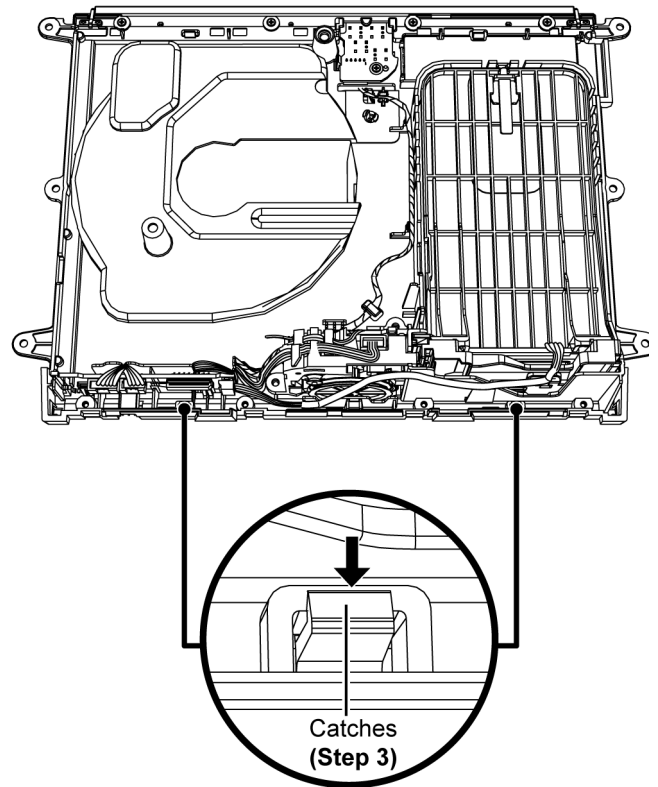


Step 2 : Remove 4 screws.

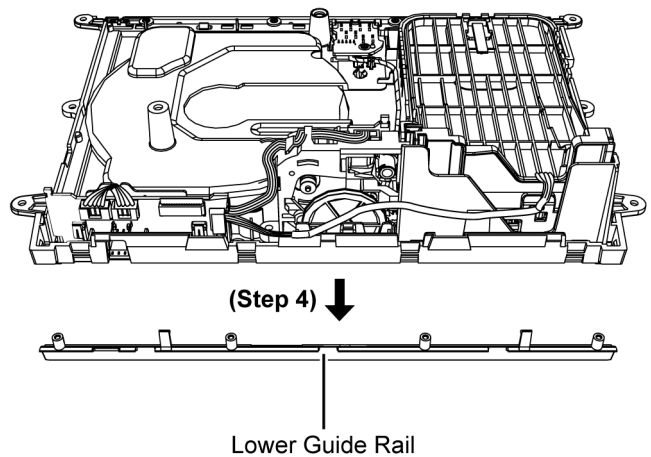


Step 3 : Release 2 catches.

Caution : During assembling, ensure the Lower Guide Rail is fully caught to the Front Panel Block.



Step 4 : Remove the Lower Guide Rail.

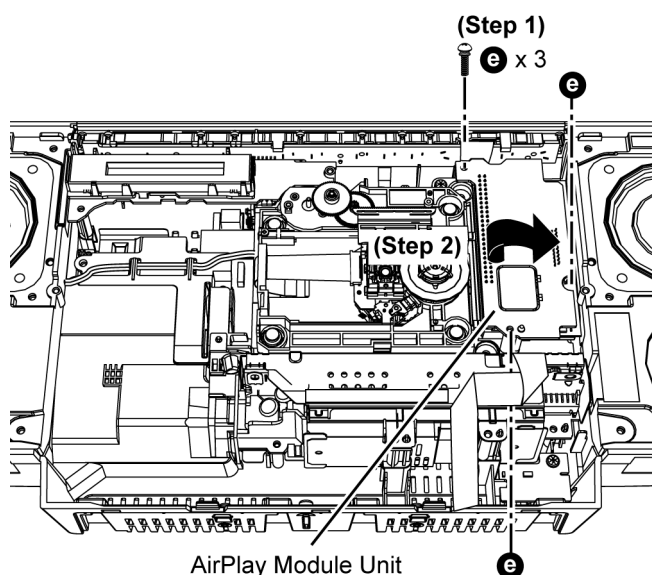


11.22. Disassembly of AirPlay Connect P.C.B. & AirPlay Module P.C.B.

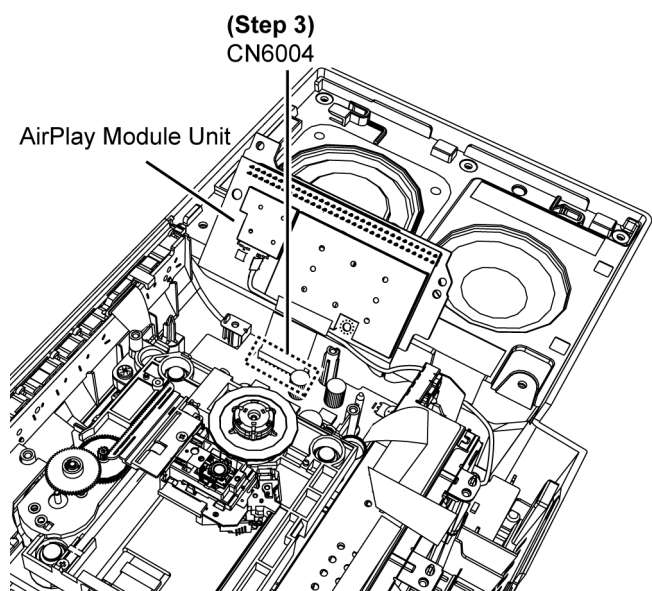
- Refer to “Disassembly of Base Stand Assembly”
- Refer to “Disassembly of Door Assembly”
- Refer to “Disassembly of Front Ornament Unit”
- Refer to “Disassembly of Front Panel Block”

Step 1 : Remove 3 screws.

Step 2 : Slightly lift up AirPlay Module Unit.



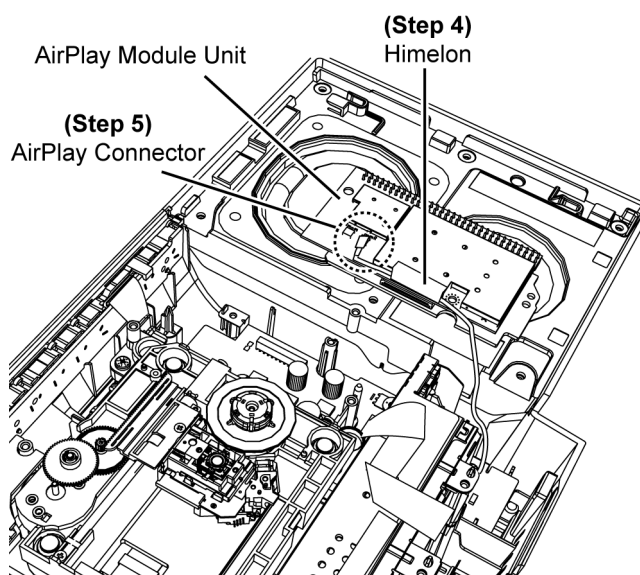
Step 3 : Detach 20P FFC at the connector (CN6004) on the Main P.C.B..



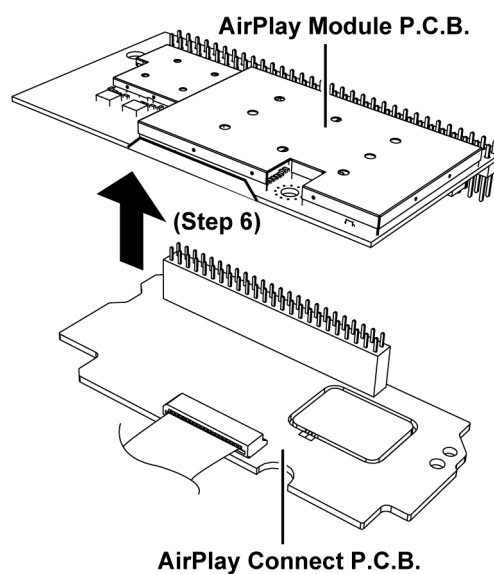
Step 4 : Lift up the Himelon.

Caution : Replace the Himelon if they are torn during disassembling.

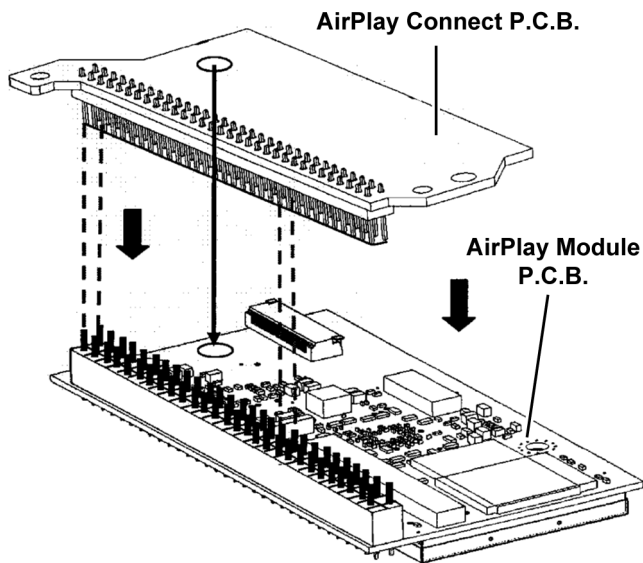
Step 5 : Detach the AirPlay Connector.



Step 6 : Remove the AirPlay Module P.C.B..



Caution : During assembling, Align the AirPlay Module P.C.B. and AirPlay Connect P.C.B. with the hole as a guide to fix it properly.



11.22.1. Disassembly of AirPlay Antenna P.C.B.

- Refer to "Disassembly of Base Stand Assembly"
- Refer to "Disassembly of Door Assembly"
- Refer to "Disassembly of Front Ornament Unit"
- Refer to "Disassembly of Front Panel Block"

Step 1 : Remove 1 screw.

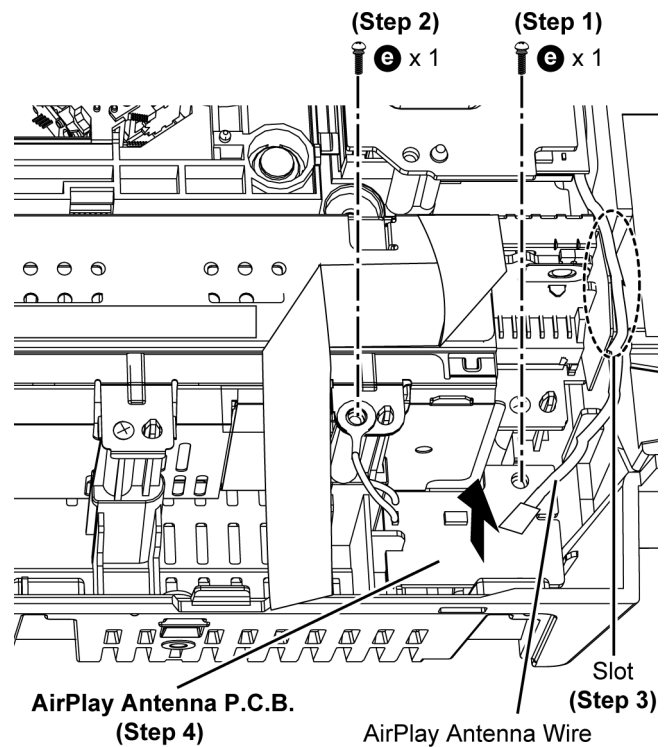
Step 2 : Remove 1 screw and Ground Wire.

Caution : During assembling, ensure Ground wire is screw back to SMPS Bracket.

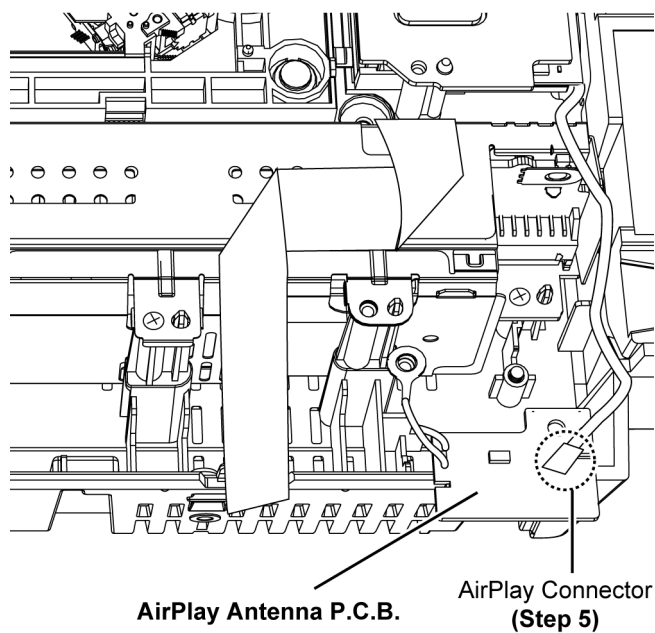
Step 3 : Release the AirPlay Antenna Wire from the slot.

Caution : During assembling, ensure that the AirPlay Antenna Wire is dressed into the slot.

Step 4 : Lift up the AirPlay Antenna P.C.B..

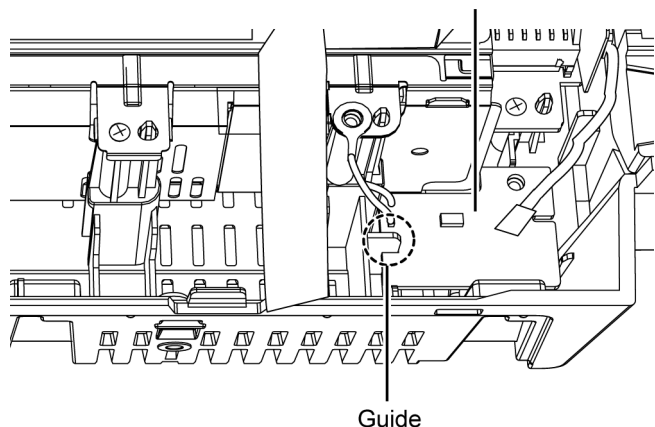


Step 5 : Detach the AirPlay Connector and remove the AirPlay Antenna P.C.B..



Caution : During assembling, ensure the AirPlay Antenna P.C.B. is properly seated onto the guide.

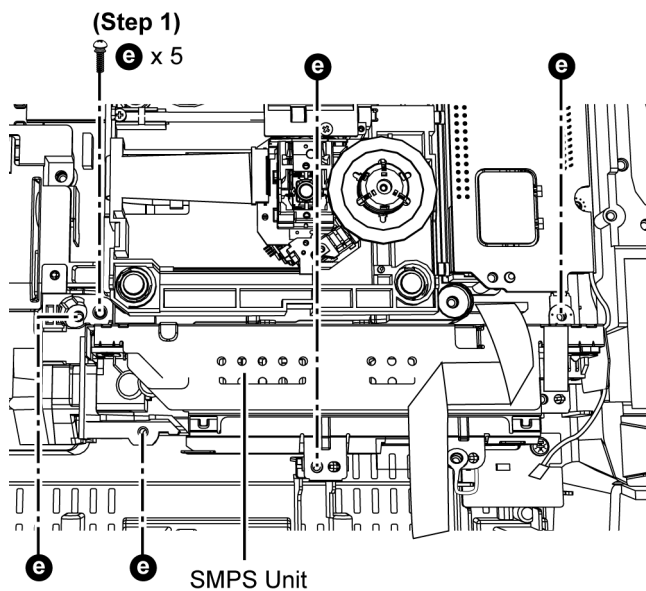
AirPlay Antenna P.C.B.



11.23. Disassembly of SMPS P.C.B.

- Refer to "Disassembly of Base Stand Assembly"
- Refer to "Disassembly of Door Assembly"
- Refer to "Disassembly of Front Ornament Unit"
- Refer to "Disassembly of Front Panel Block"

Step 1 : Remove 5 screws.

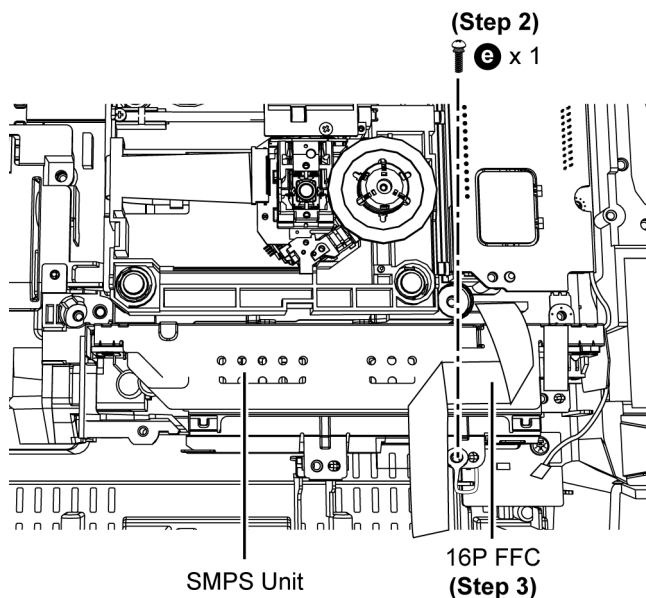


Step 2 : Remove 1 screw and Ground Wire.

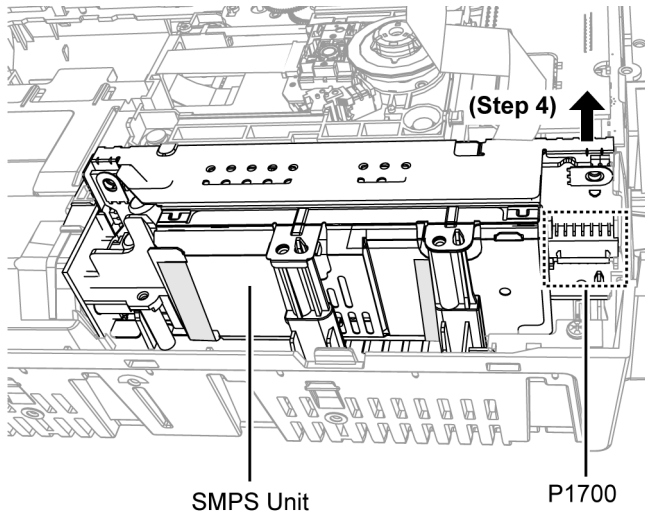
Caution : During assembling, ensure Ground wire is screw back to SMPS Bracket.

Step 3 : Lift up the 16P FFC taped on SMPS Unit.

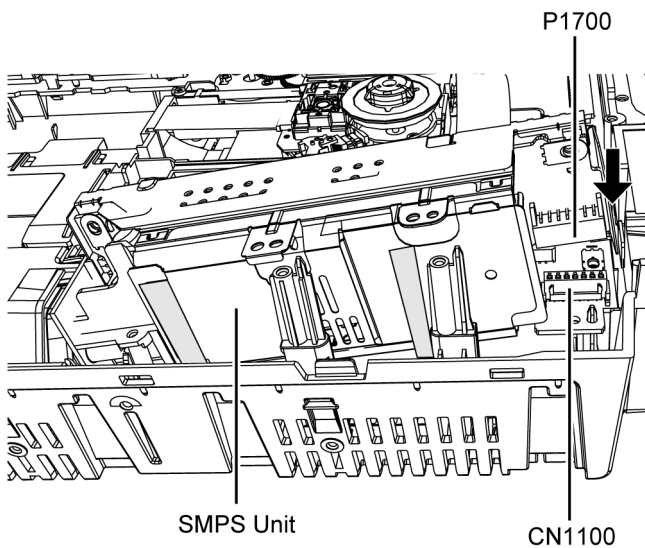
Caution : During assembling, replace with new double sided tape if torn.



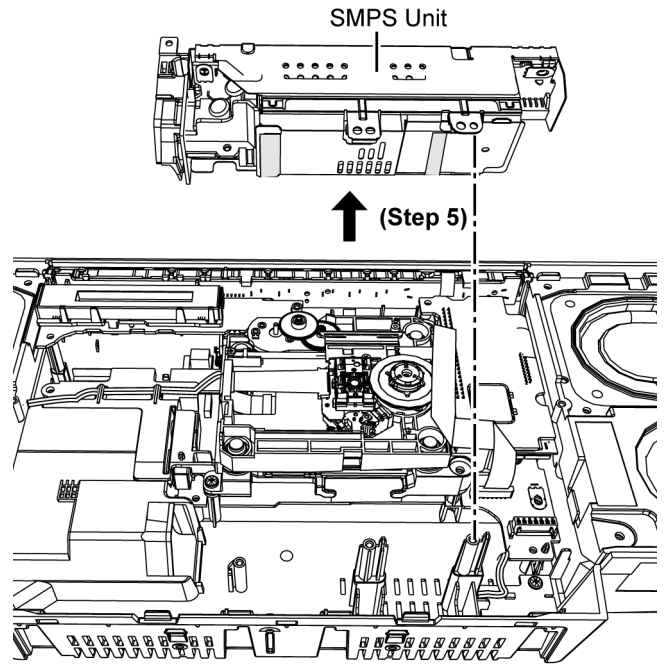
Step 4 : Gently lift up the SMPS Unit.



Caution : During assembling, align the SMPS Unit (between P1700 with CN1100). A “click” sound could be heard when the SMPS unit is attached properly to the Main P.C.B..

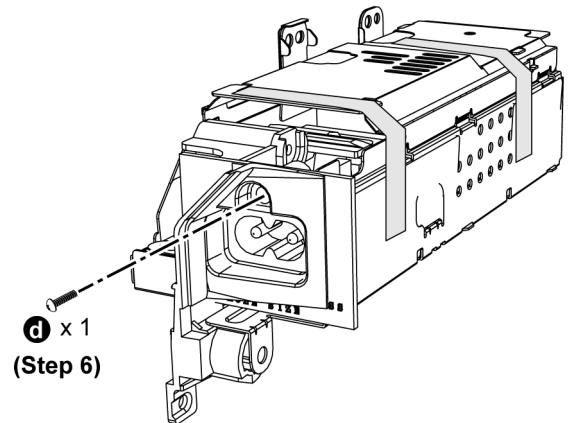


Step 5 : Remove the SMPS Unit.



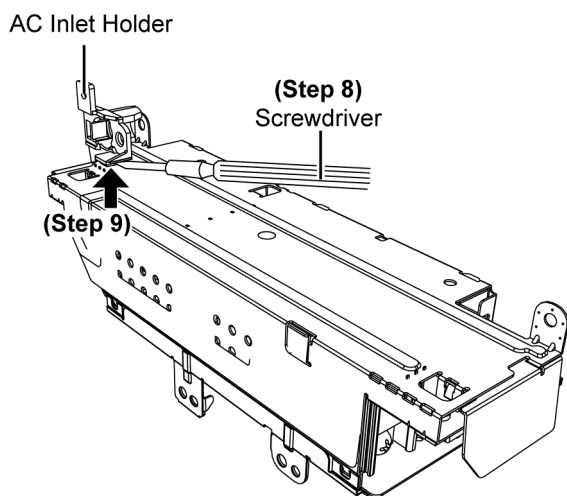
Step 6 : Remove 1 screw.

Step 7 : Upset the SMPS unit.



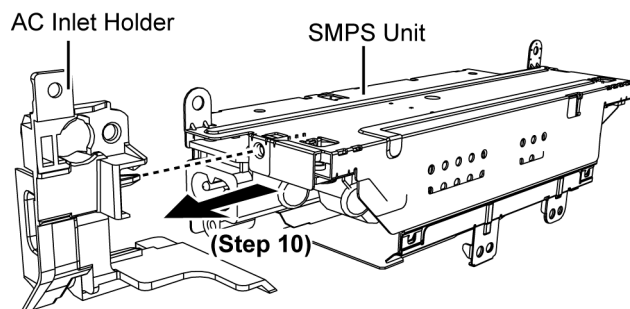
Step 8 : Insert a flathead screwdriver below the AC Inlet Holder.

Step 9 : Slightly lift up the screwdriver to release the catch.



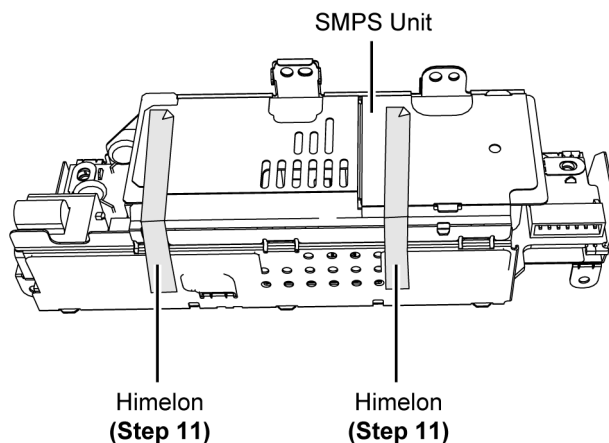
Step 10 : Remove AC Inlet Holder.

Caution : During assembling, ensure the AC Inlet Holder is fully caught to the SMPS Unit. A "click" sound will be heard when fully caught.



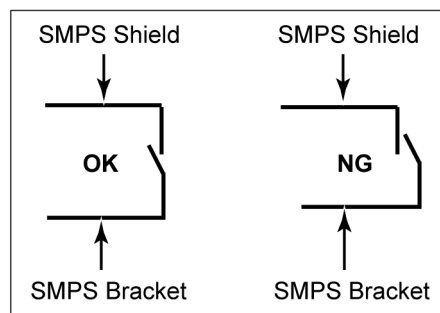
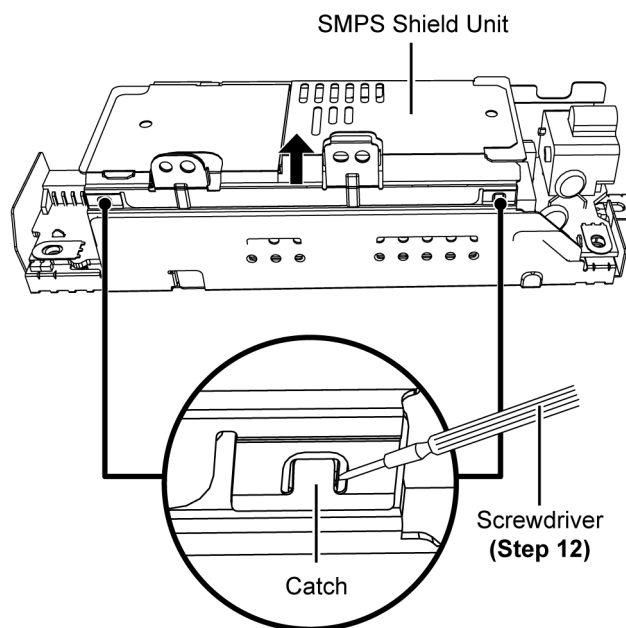
Step 11 : Lift up the Himelons.

Caution : Replace the Himelons if they are torn during dis-assembling.



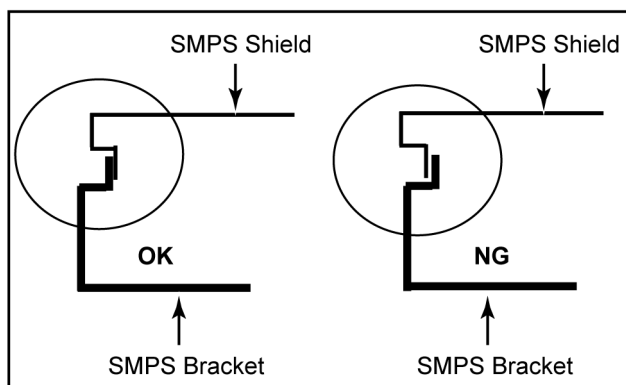
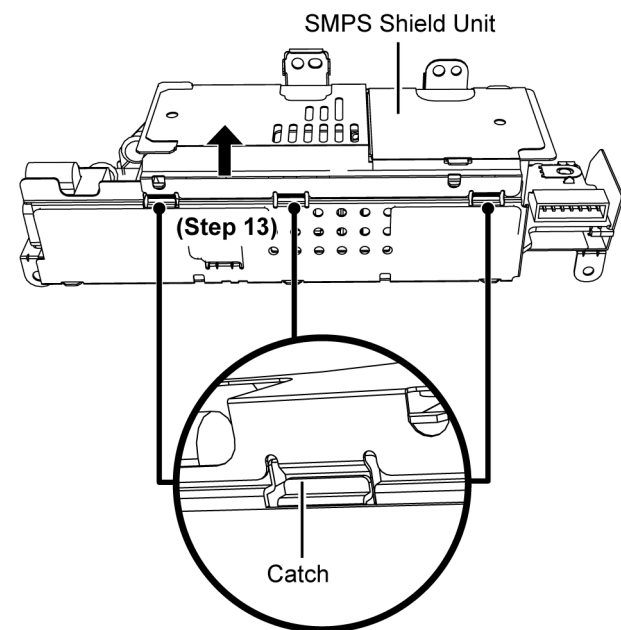
Step 12 : Press to release 2 catches using a screwdriver and gently push up the SMPS Shield Unit.

Caution : During assembling, ensure that the SMPS Shield Unit is caught properly to the SMPS bracket as shown.

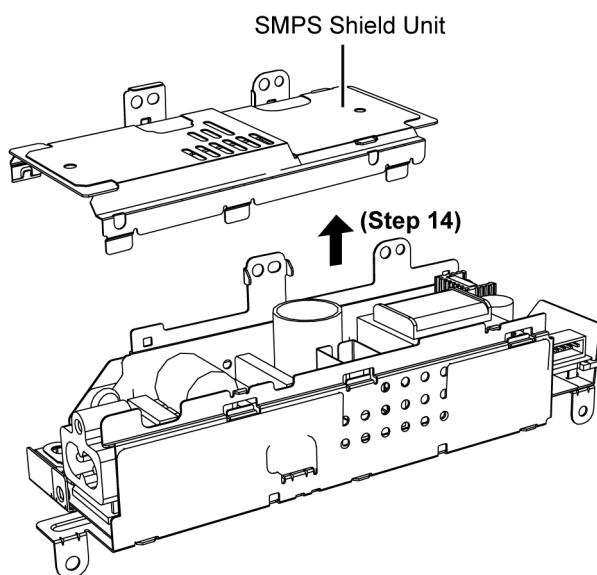


Step 13 : Gently push up the SMPS Shield Unit to release the catches.

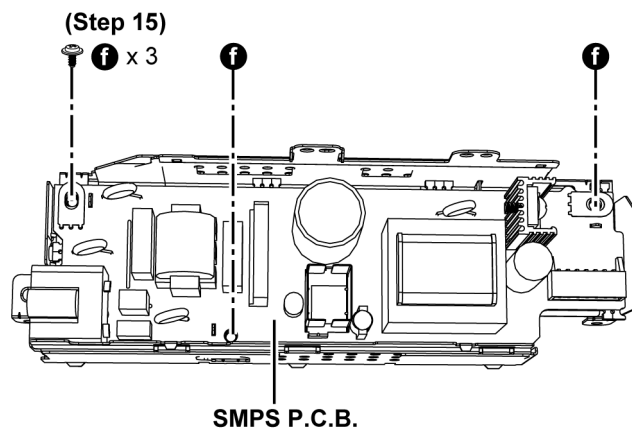
Caution : During assembling, ensure that the SMPS Shield Unit is caught properly to the SMPS bracket as shown.



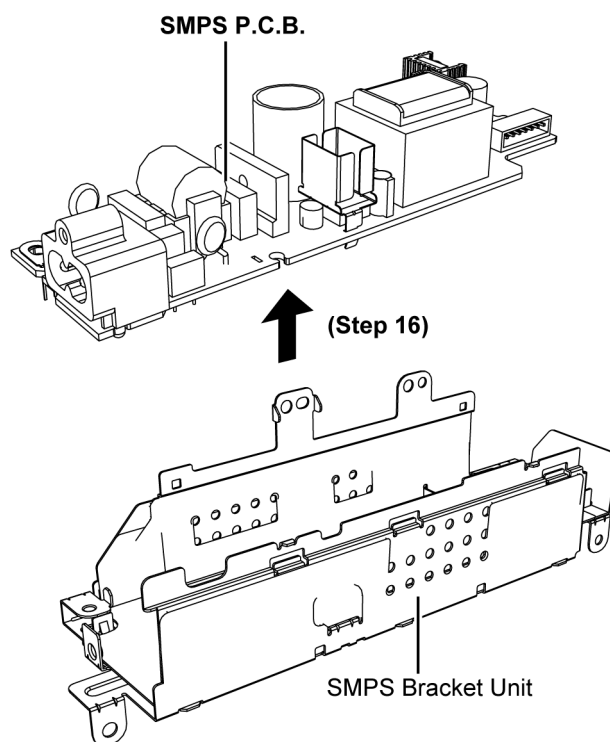
Step 14 : Remove the SMPS Shield Unit.



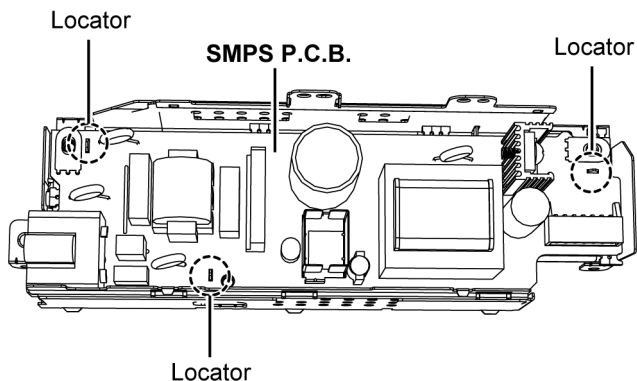
Step 15 : Remove 3 screws.



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



Caution: During assembling, ensure that the SMPS P.C.B. is properly seated on the locators.



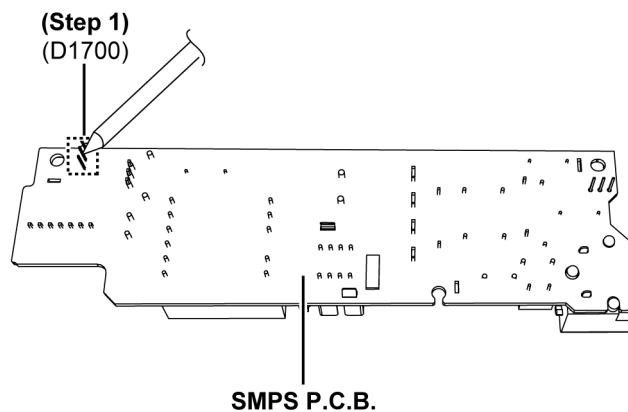
11.24. Replacement of Diode (D1700)

- Refer to “Disassembly of SMPS P.C.B.”

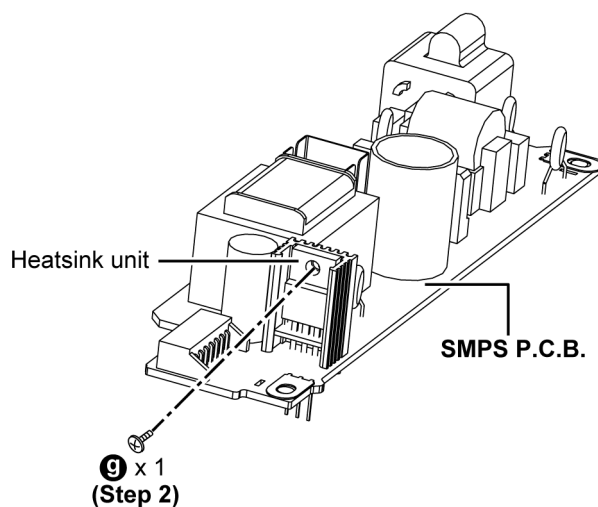
11.24.1. Disassembly of Diode (D1700)

Caution : Avoid touching the heatsink unit and SMPS P.C.B., due to its high temperature after prolonged use. Touching it may lead to injuries.

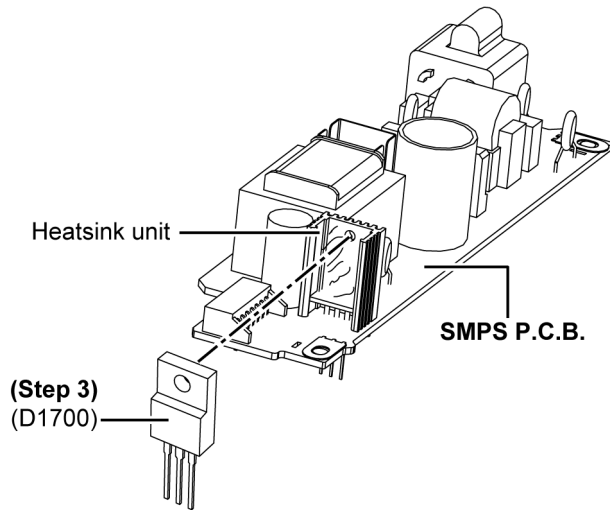
Step 1 : Desolder pins of the Diode (D1700) on the solder side of SMPS P.C.B..



Step 2 : Remove 1 screw.



Step 3 : Remove the Diode (D1700).



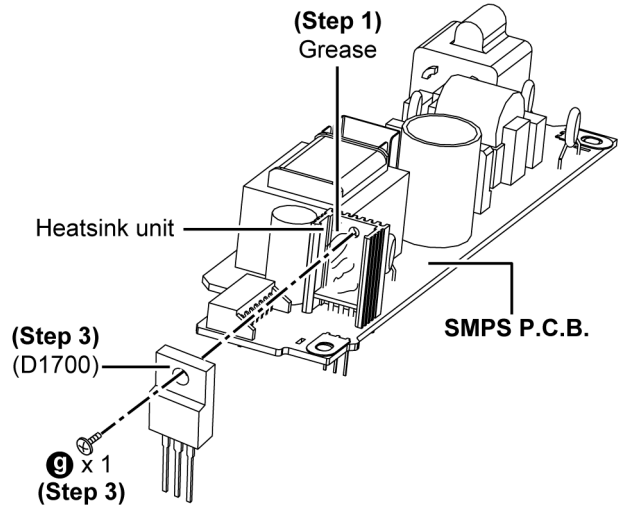
11.24.2. Assembly of Diode (D1700)

Step 1 : Apply grease to the heatsink unit.

Step 2 : Fix the Diode (D1700) onto SMPS P.C.B..

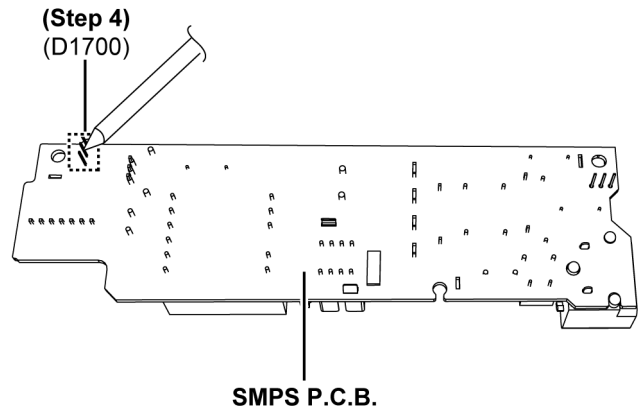
Step 3 : Fix the Diode (D1700) onto the heatsink unit with 1 screw.

Caution : Ensure the Diode (D1700) is fixed properly to the heatsink.



Step 4 : Solder pins of the Diode (D1700).

Caution : Ensure the Diode (D1700) is seated properly onto the SMPS P.C.B. before soldering.



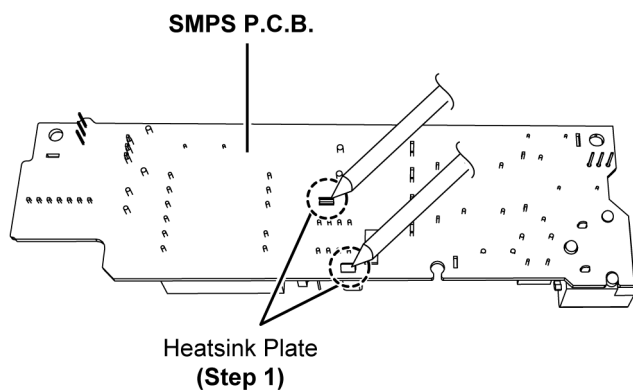
11.25. Replacement of Switching Regulator IC (IC1700)

- Refer to “Disassembly of SMPS P.C.B.”

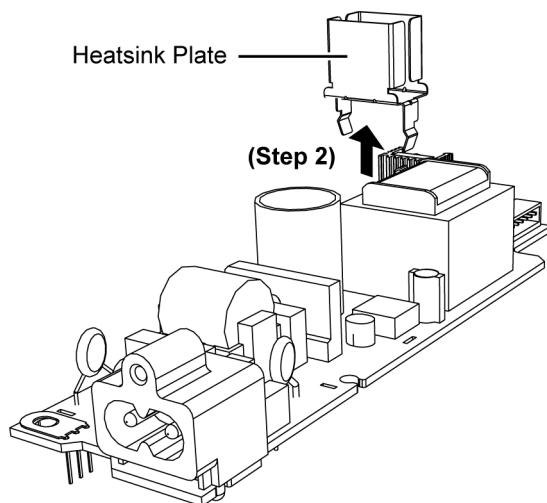
11.25.1. Disassembly of Switching Regulator IC (IC1700)

Caution : Avoid touching the heatsink unit and SMPS P.C.B., due to its high temperature after prolonged use. Touching it may lead to injuries.

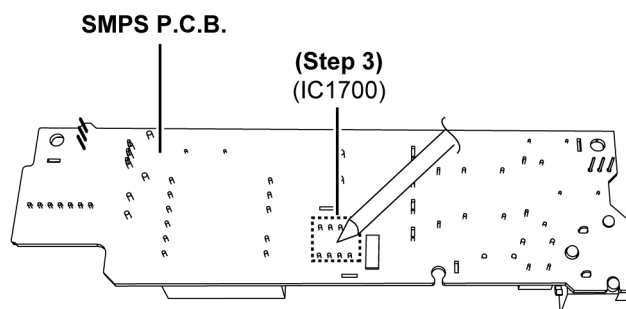
Step 1 : Desolder pins of the Heatsink Plate on the solder side of SMPS P.C.B..



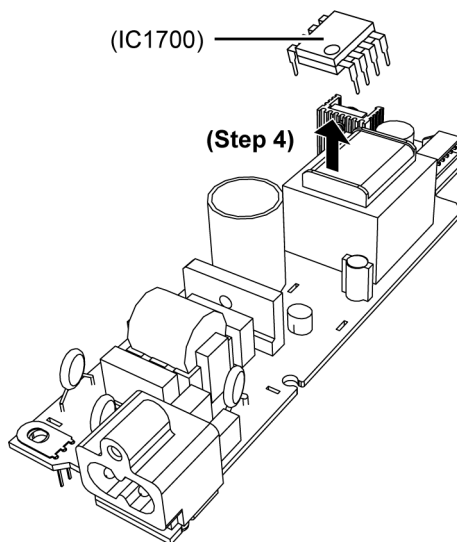
Step 2 : Remove the Heatsink Plate.



Step 3 : Desolder pins of the Switching Regulator IC (IC1700) on the solder side of SMPS P.C.B..

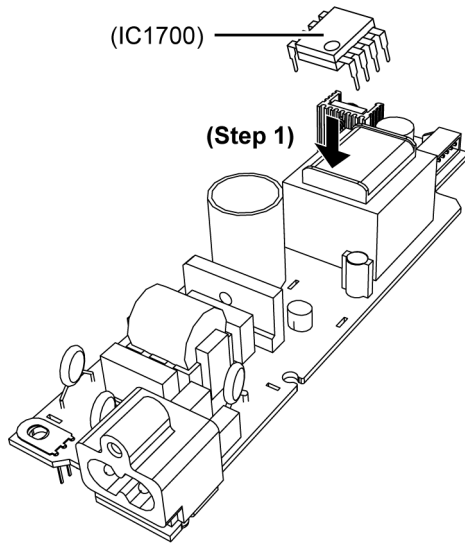


Step 4 : Remove the Switching Regulator IC (IC1700).

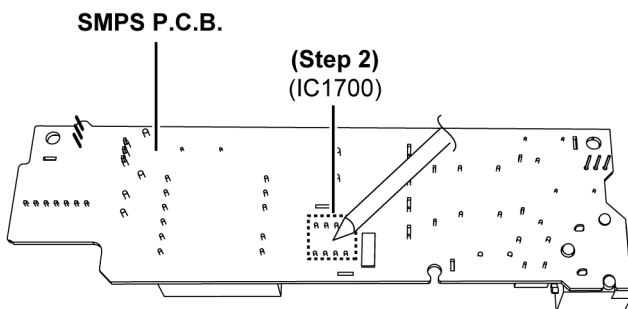


11.25.2. Assembly of Switching Regulator IC (IC1700)

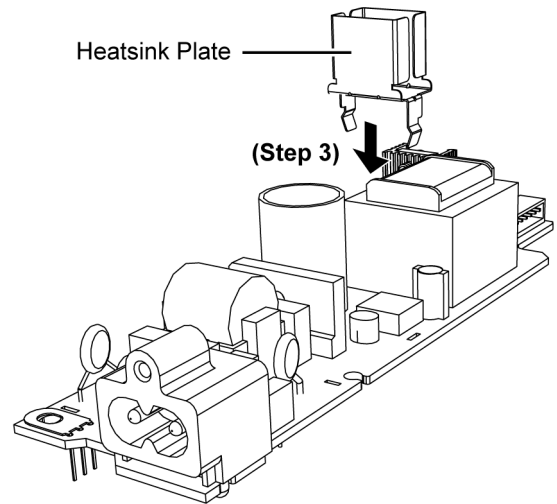
Step 1 : Fix the Switching Regulator IC (IC1700) onto SMPS P.C.B..



Step 2 : Solder pins of the Switching Regulator IC (IC1700).
Caution : Ensure the Switching Regulator IC (IC1700) is seated properly onto the SMPS P.C.B. before soldering.

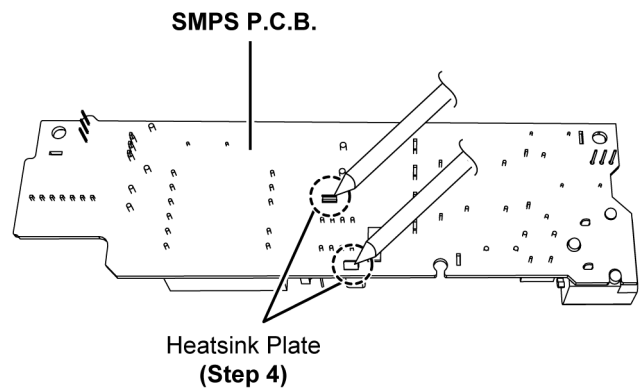


Step 3 : Fix the Heatsink Plate onto SMPS P.C.B..



Step 4 : Solder pins of the Heatsink Plate.

Caution : Ensure the Heatsink Plate is seated properly onto the SMPS P.C.B. before soldering.

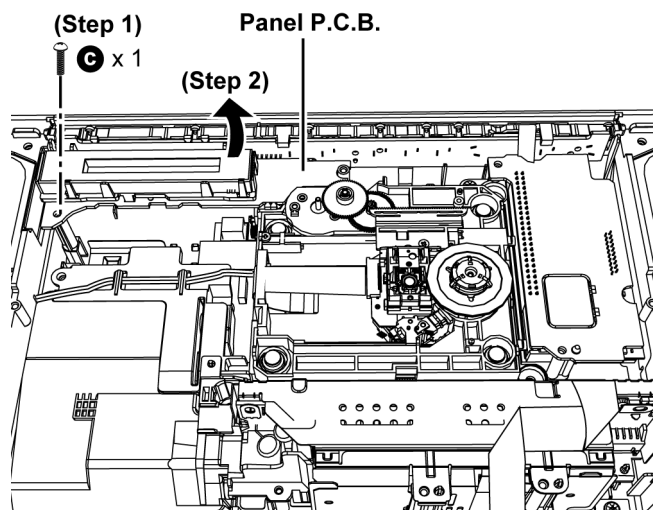


11.26. Disassembly of Panel P.C.B. & Button Ornament Unit

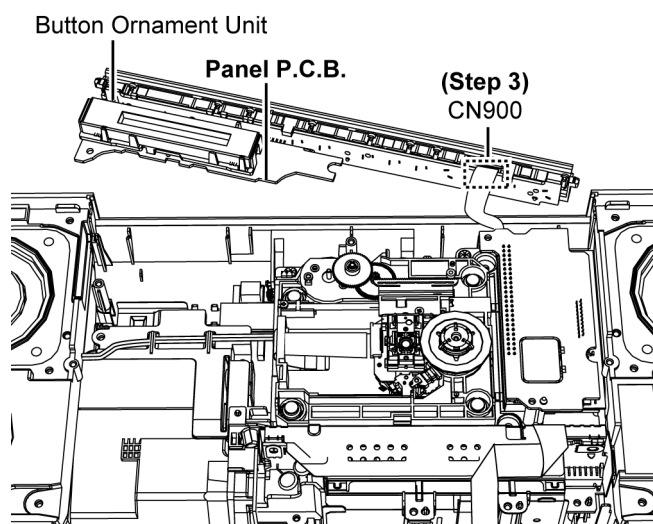
- Refer to “Disassembly of Base Stand Assembly”
- Refer to “Disassembly of Door Assembly”
- Refer to “Disassembly of Front Ornament Unit”
- Refer to “Disassembly of Front Panel Block”

Step 1 : Remove 1 screw.

Step 2 : Lift up the Panel P.C.B. together with Button Ornament Unit as shown.

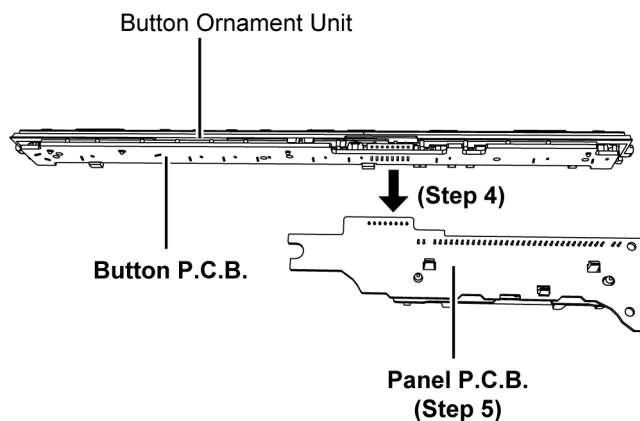


Step 3 : Detach 15P FFC at the connector (CN900) on the Button P.C.B..

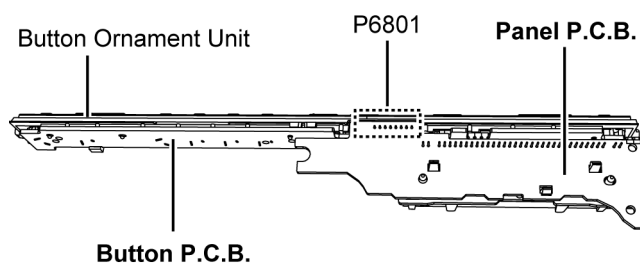


Step 4 : Detach the Panel P.C.B. from the Button Ornament unit.

Step 5 : Remove the Panel P.C.B..



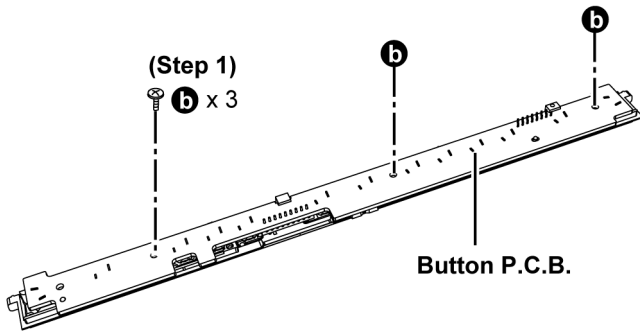
Caution : During assembling, A “click” sound could be heard when the Panel P.C.B. and the Button Ornament P.C.B. is properly connected.



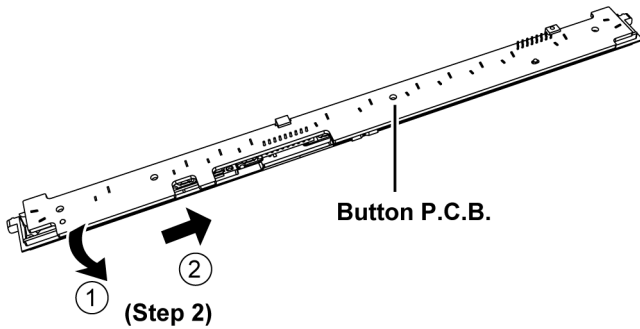
11.27. Disassembly of Button P.C.B.

- Refer to "Disassembly of Base Stand Assembly"
- Refer to "Disassembly of Door Assembly"
- Refer to "Disassembly of Front Ornament Unit"
- Refer to "Disassembly of Front Panel Block"
- Refer to "Disassembly of Panel P.C.B. & Button Ornament Unit"

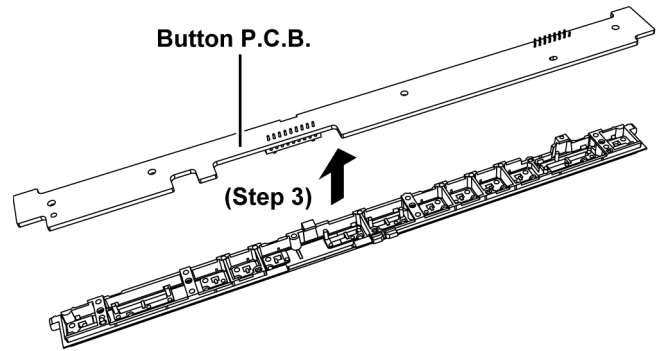
Step 1 : Remove 3 screws.



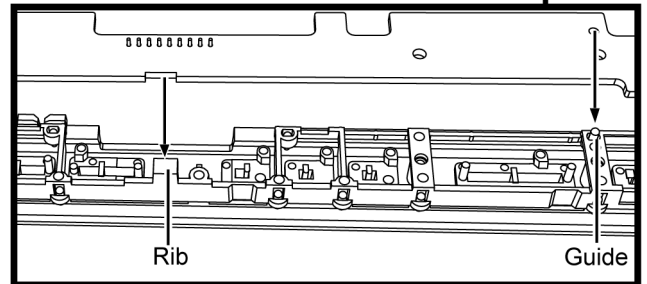
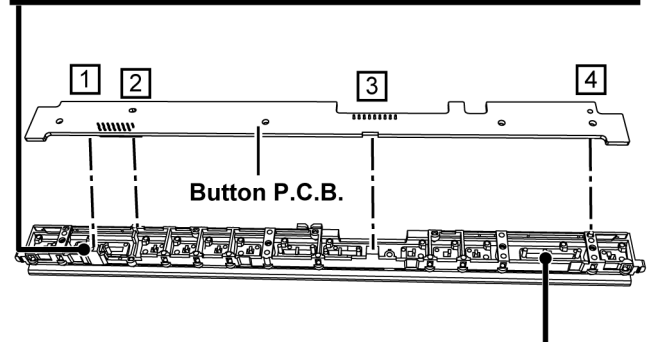
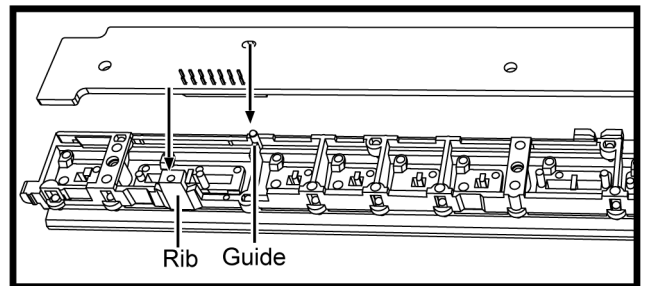
Step 2 : Lift up the Button P.C.B. in order of sequences (1) to (2) as shown.



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



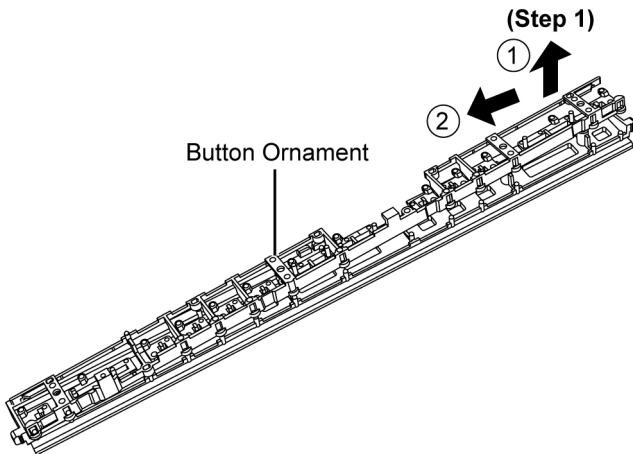
Caution: During assembling, ensure the Button P.C.B. is fully fix into rib and guide by sequence from 1 to 4.



11.28. Disassembly of Button Ornament

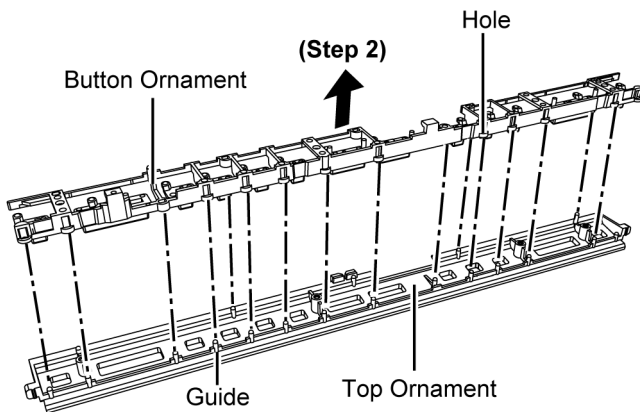
- Refer to “Disassembly of Base Stand Assembly”
- Refer to “Disassembly of Door Assembly”
- Refer to “Disassembly of Front Ornament Unit”
- Refer to “Disassembly of Front Panel Block”
- Refer to “Disassembly of Panel P.C.B. & Button Ornament Unit”
- Refer to “Disassembly of Button P.C.B.”

Step 1 : Lift up the Button Ornament in order of sequences (1) to (2) as shown.



Step 2 : Remove the Button Ornament.

Caution : During assembling, align the holes of the button ornament with the guides of the Top Ornament & press together.

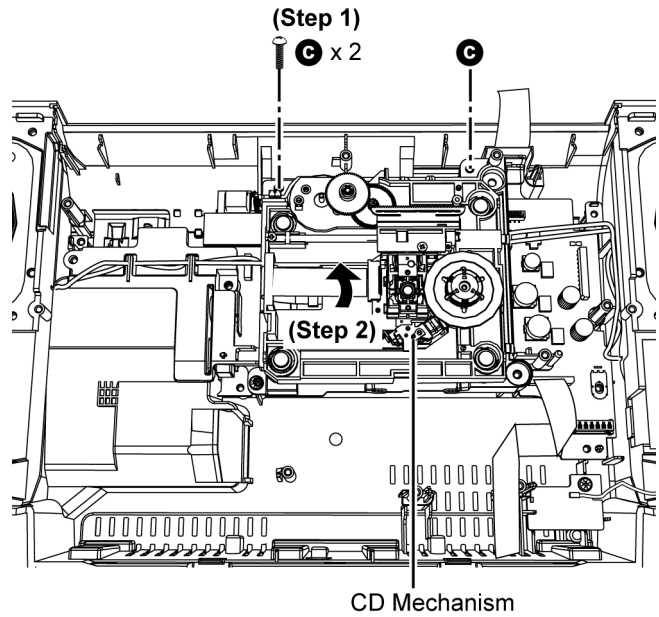


11.29. Disassembly of CD Mechanism

- Refer to “Disassembly of Base Stand Assembly”
- Refer to “Disassembly of Door Assembly”
- Refer to “Disassembly of Front Ornament Unit”
- Refer to “Disassembly of Front Panel Block”
- Refer to (Step 1) - (Step 5) of item 11.22.
- Refer to (Step 1) - (Step 5) of item 11.23.
- Refer to (Step 1) - (Step 3) of item 11.26.

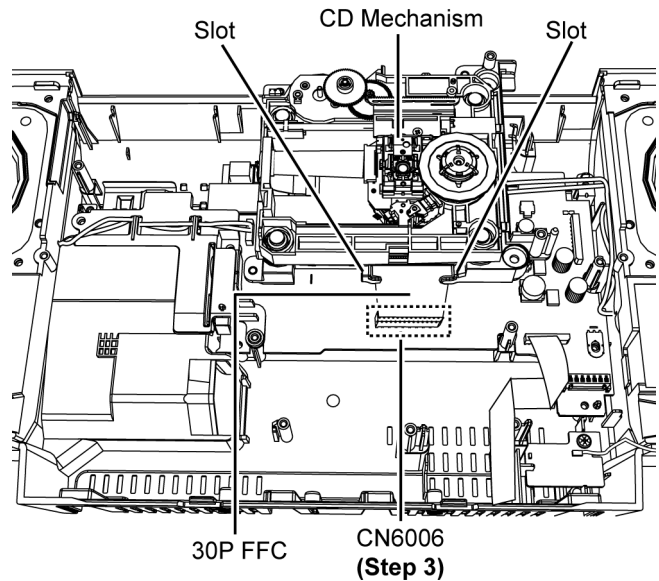
Step 1 : Remove 2 screws.

Step 2 : Slightly lift up the CD Mechanism.

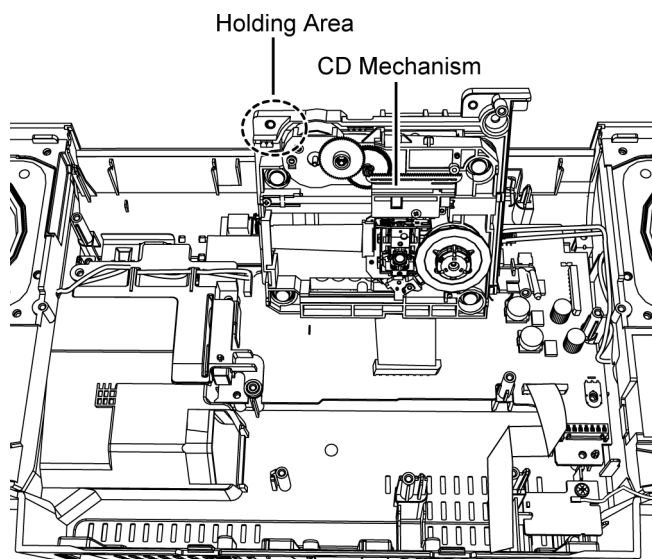


Step 3 : Detach 30P FFC at the connector (CN6006) on the Main P.C.B..

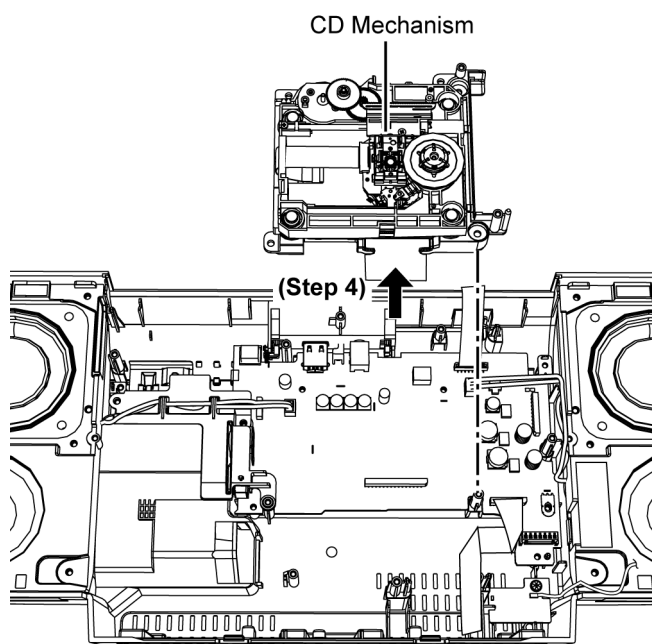
Caution : During assembling, ensure 30P FFC is fix inside the slot at middle chassis as shown.



Caution : During assembling, hold the CD Mechanism as shown to fix 30P FFC to Main P.C.B..



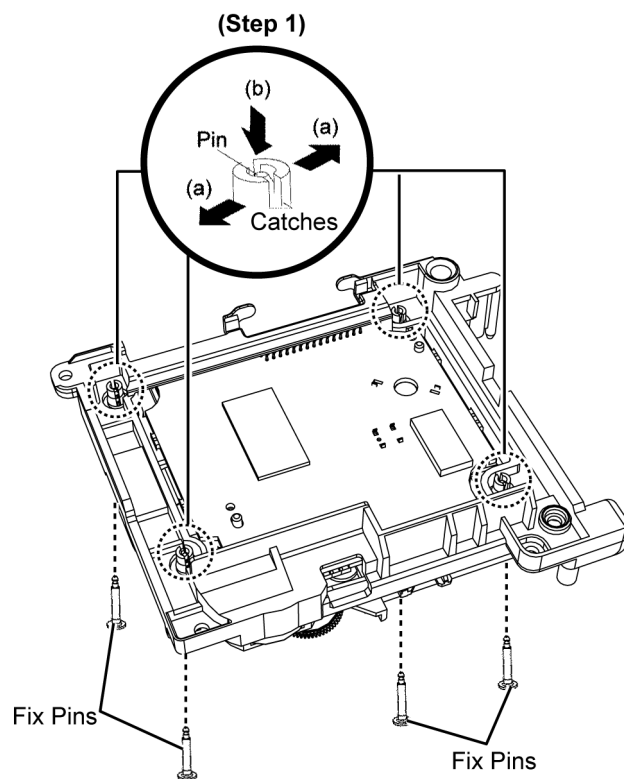
Step 4 : Remove the CD Mechanism.



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

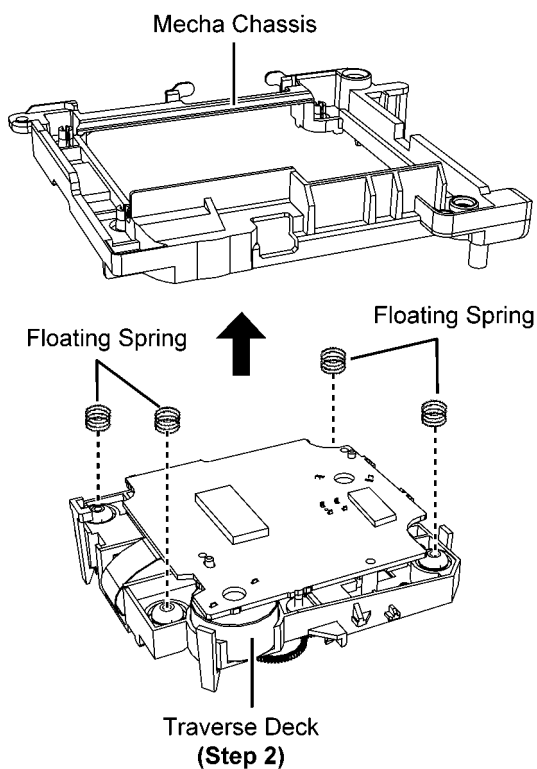
• Refer to "Disassembly of CD Mechanism"

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

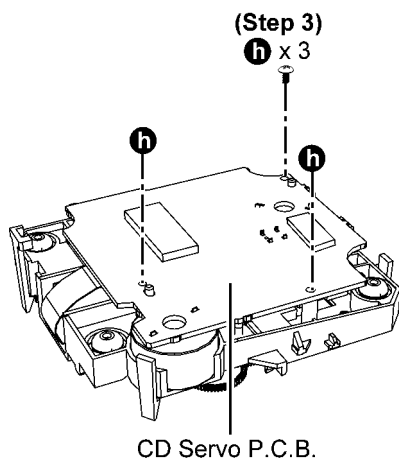


Step 2 : Lift up the Mecha Chassis & remove the Floating Springs.

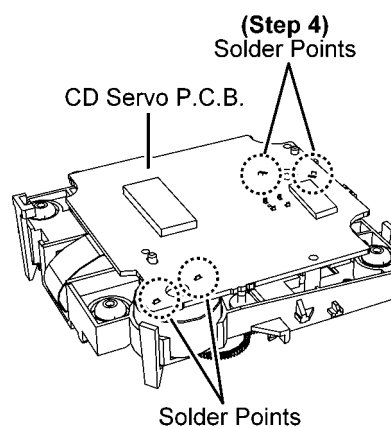
Caution : Keep the Floating Springs in safe place and place them back during assembling.



Step 3 : Remove 3 screws.



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

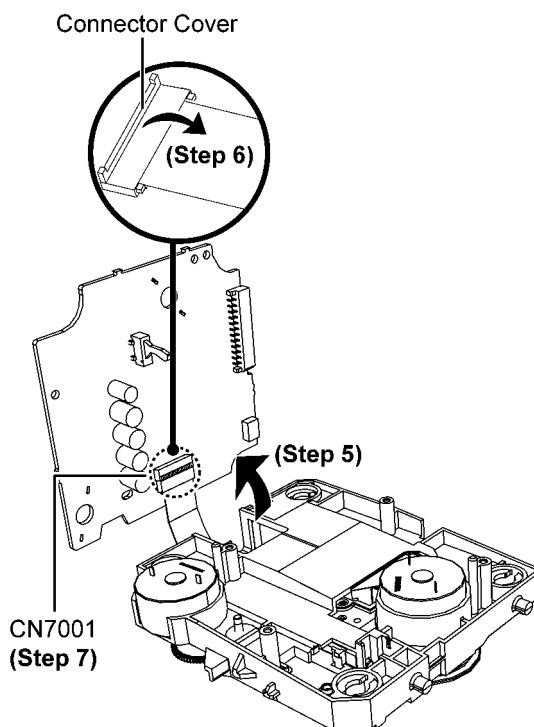


Step 5 : Upset the CD Servo P.C.B..

Step 6 : Lift up the Connector Cover.

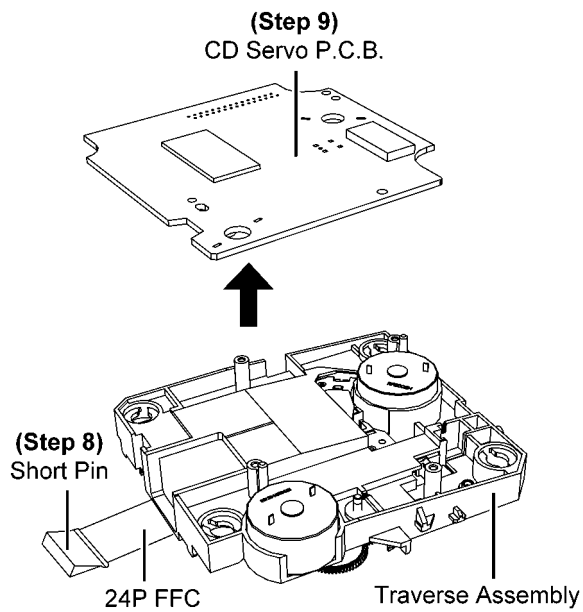
Caution : Do not use strong force as it may damage the connector cover.

Step 7 : Detach 24P FFC at the connector (CN7001) from the CD Servo P.C.B..



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

Step 9 : Remove the CD Servo P.C.B..

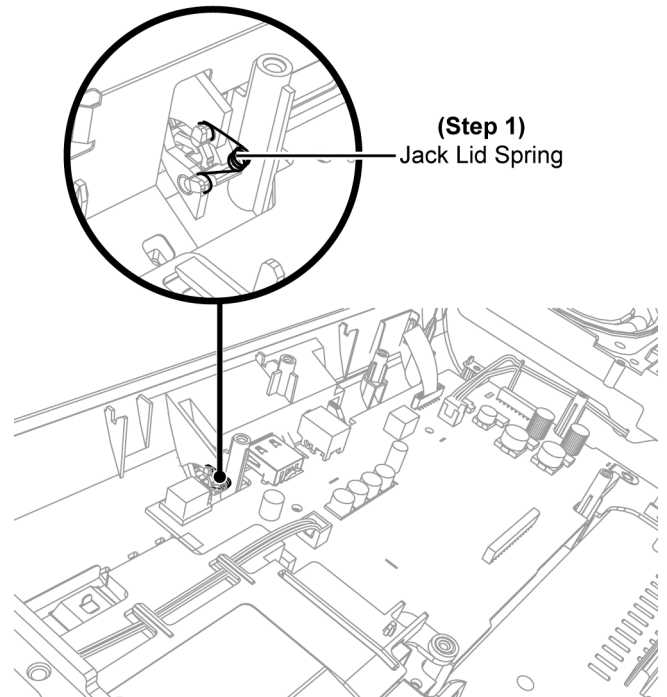


11.31. Disassembly of Jack Lid

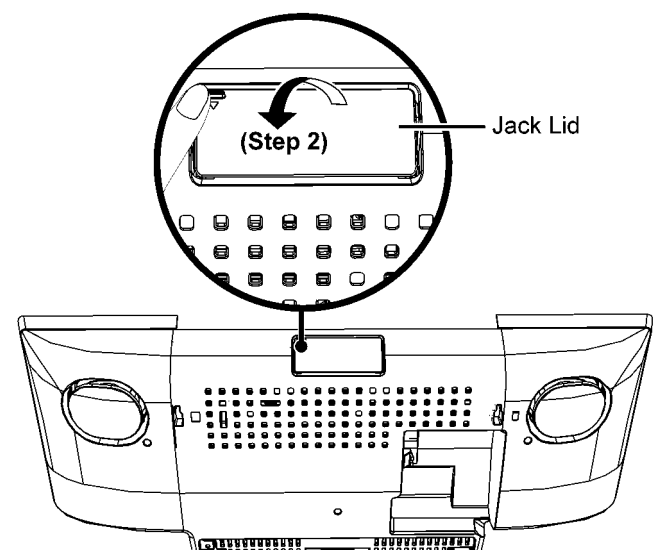
- Refer to "Disassembly of Base Stand Assembly"
- Refer to "Disassembly of Door Assembly"
- Refer to "Disassembly of Front Ornament Unit"
- Refer to "Disassembly of Front Panel Block"
- Refer to (Step 1) - (Step 5) of item 11.22.
- Refer to (Step 1) - (Step 5) of item 11.23.
- Refer to (Step 1) - (Step 3) of item 11.26.
- Refer to "Disassembly of CD Mechanism"

Step 1 : Release the Jack Lid Spring.

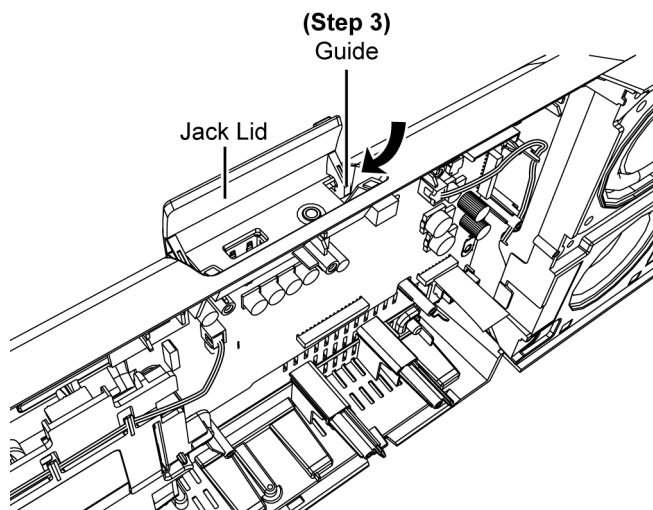
Caution : Keep the Jack Lid Spring in safe place and place them back during assembling.



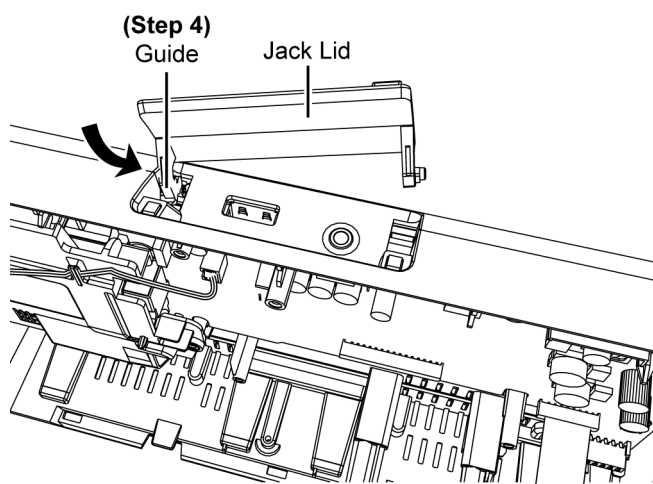
Step 2 : Press to open the Jack Lid.



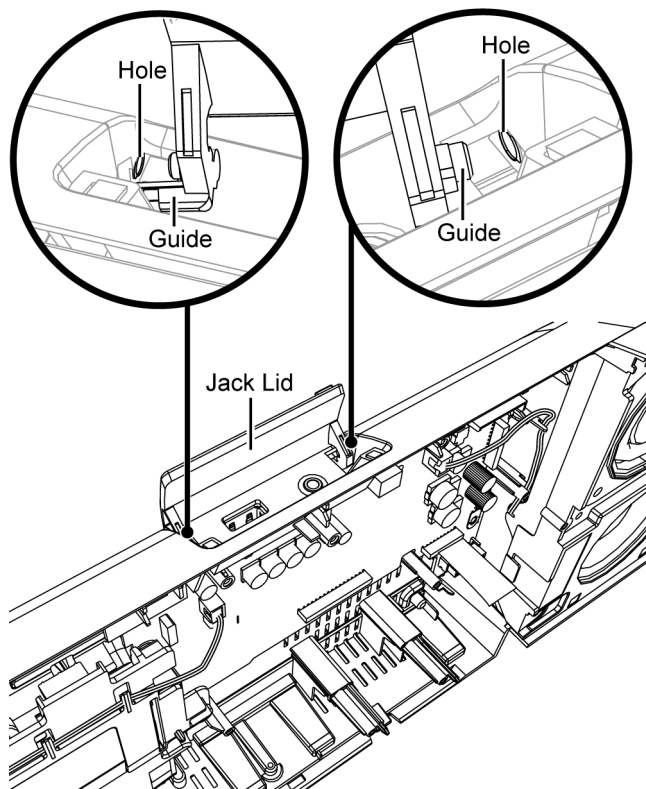
Step 3 : Push the shaft of the Jack Lid inwards in the direction as shown.



Step 4 : Lift up to remove the Jack Lid in the direction as shown.



Caution : During assembling, insert the shaft of the Jack Lid into hole A, then press & push the shaft into hole B.



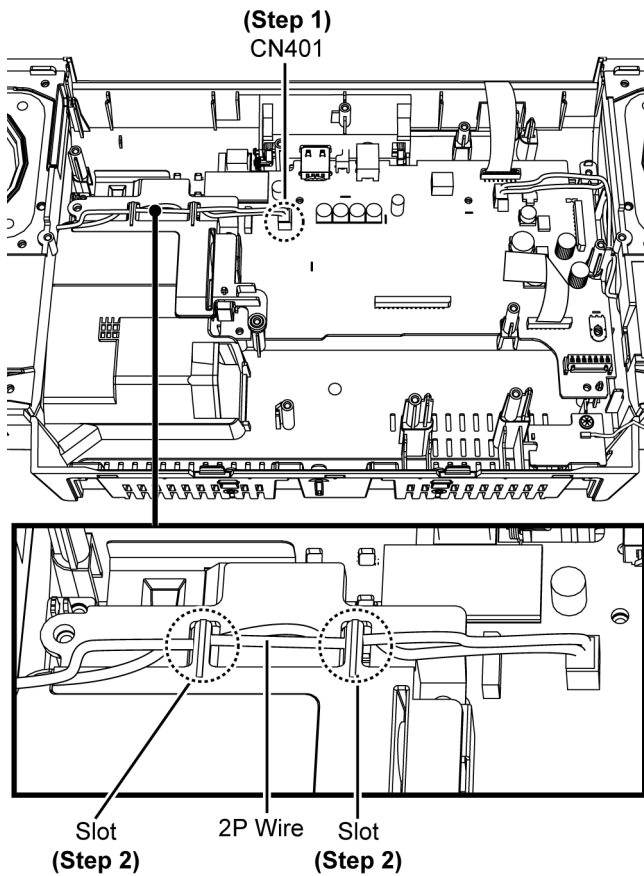
11.32. Disassembly of Main P.C.B.

- Refer to "Disassembly of Base Stand Assembly"
- Refer to "Disassembly of Door Assembly"
- Refer to "Disassembly of Front Ornament Unit"
- Refer to "Disassembly of Front Panel Block"
- Refer to (Step 1) - (Step 5) of item 11.22.
- Refer to (Step 1) - (Step 5) of item 11.23.
- Refer to (Step 1) - (Step 3) of item 11.26.
- Refer to "Disassembly of CD Mechanism"

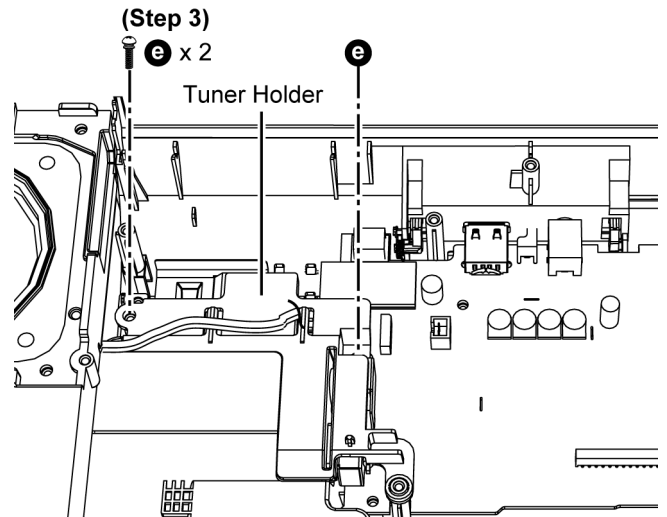
Step 1 : Detach 2P wire at the connector (CN401) on the Main P.C.B..

Step 2 : Release the 2P wire from the slots.

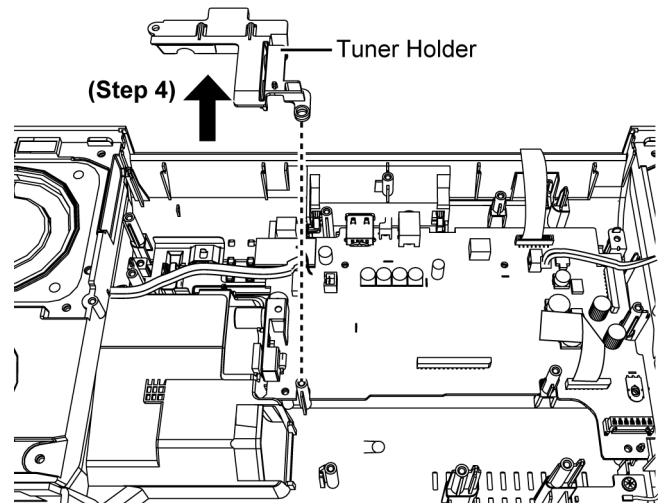
Caution : During assembling, dressed the 2P wire into the slots.



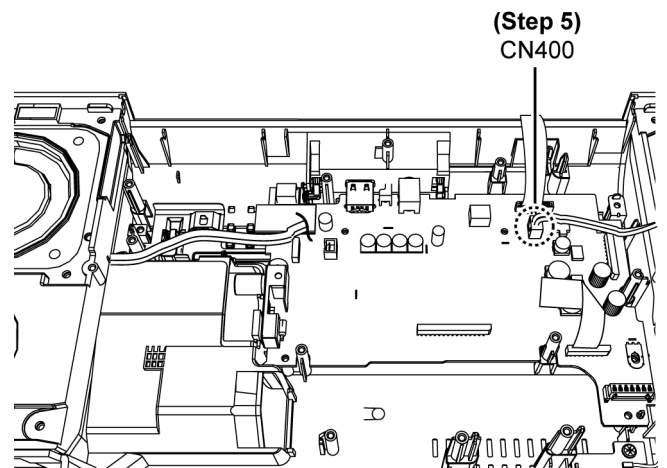
Step 3 : Remove 2 screws.



Step 4 : Remove the Tuner Holder.

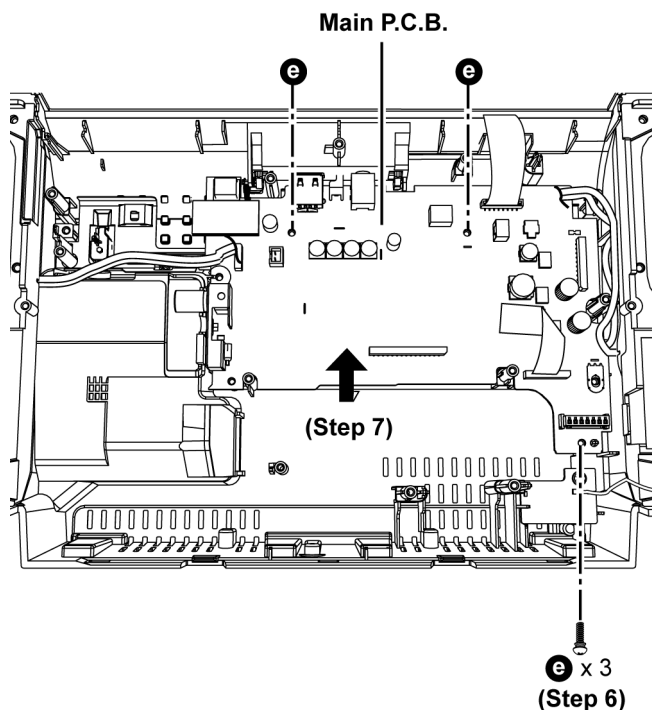


Step 5 : Detach 2P wire at the connector (CN400) on the Main P.C.B..

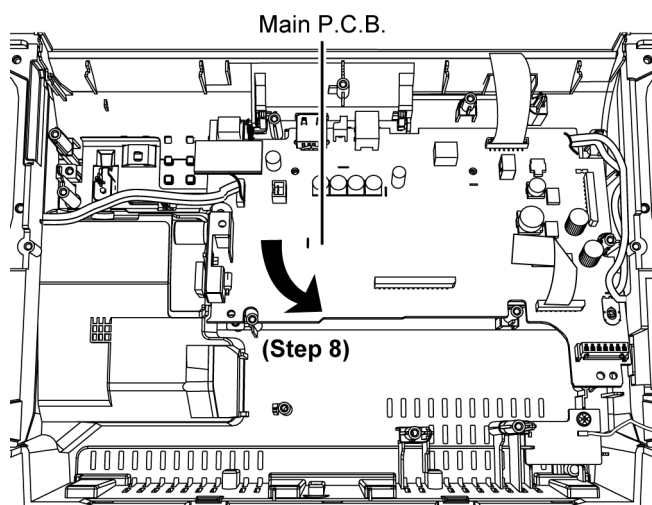


Step 6 : Remove 3 screws.

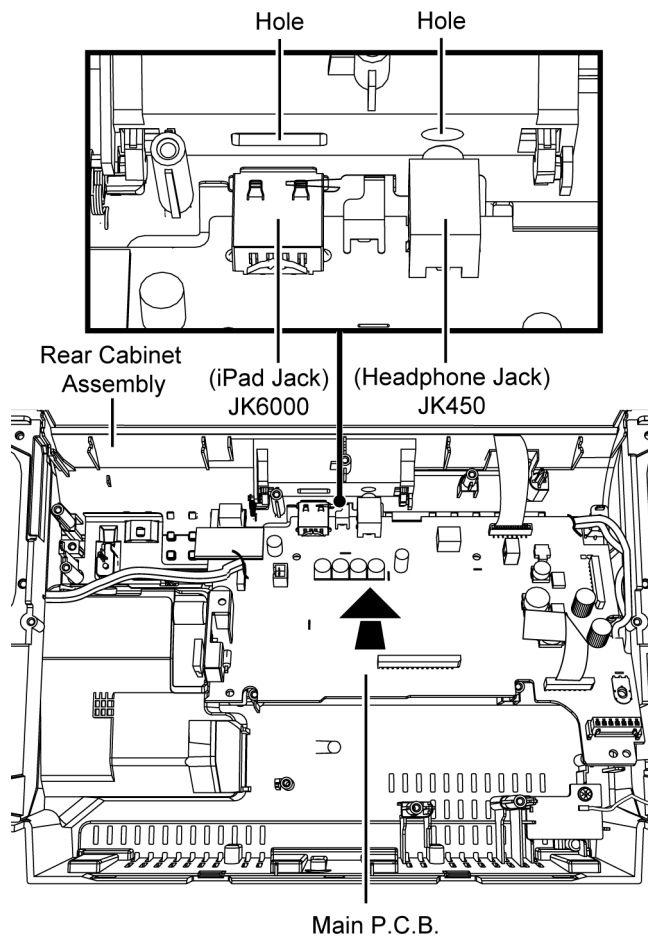
Step 7 : Slightly Lift up the Main P.C.B..



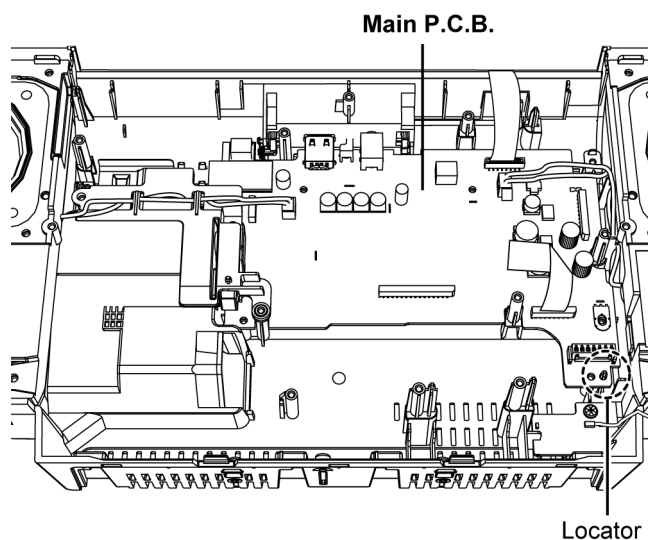
Step 8 : Remove the Main P.C.B. as shown.



Caution 1 : During assembling, ensure the Headphone Jack (JK450) & iPad Jack (JK6000) are inserted into the holes of Rear Cabinet Assembly as shown.



Caution 2 : During assembling, align the Main P.C.B. with the locator & ensure it is properly seated.



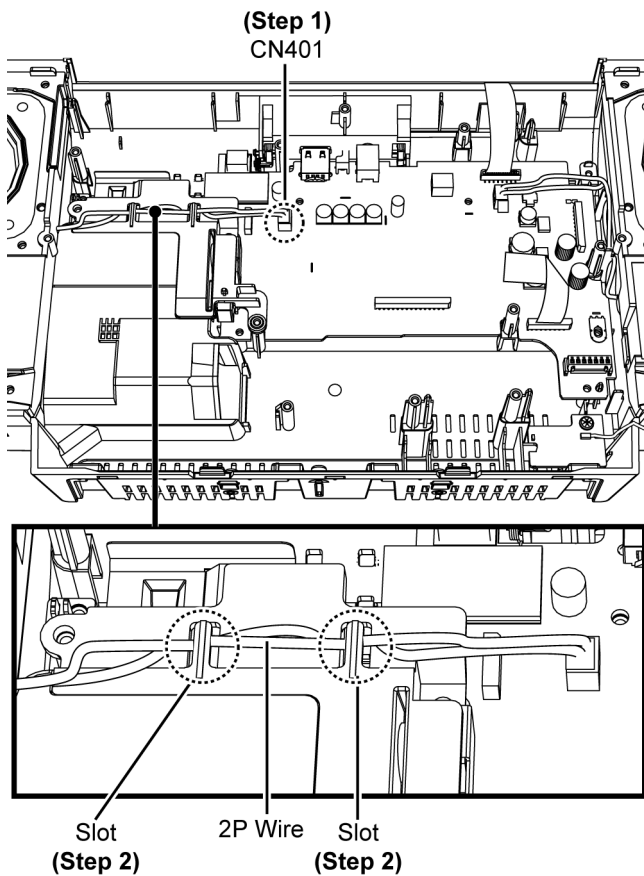
11.33. Disassembly of Front Speaker (SP1)

- Refer to "Disassembly of Base Stand Assembly"
- Refer to "Disassembly of Door Assembly"
- Refer to "Disassembly of Front Ornament Unit"
- Refer to "Disassembly of Front Panel Block"
- Refer to (Step 1) - (Step 5) of item 11.22.
- Refer to (Step 1) - (Step 5) of item 11.23.
- Refer to (Step 1) - (Step 3) of item 11.26.
- Refer to "Disassembly of CD Mechanism"

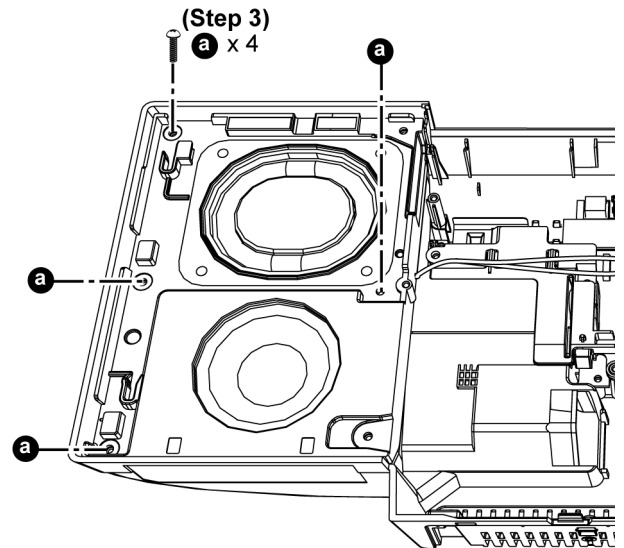
Step 1 : Detach 2P wire at the connector (CN401) on the Main P.C.B..

Step 2 : Release the 2P wire from the slots.

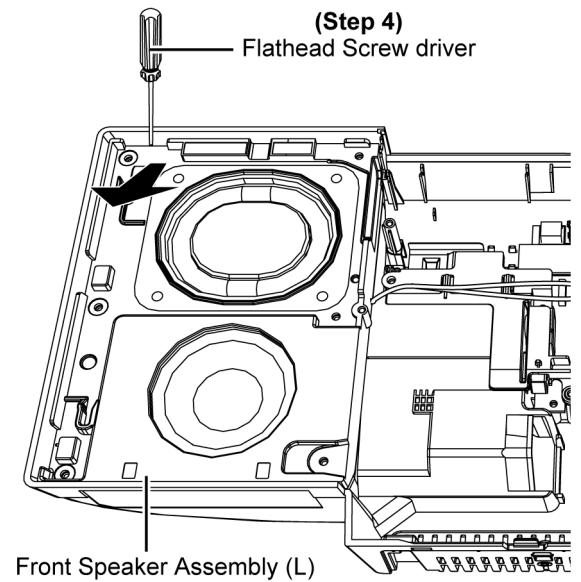
Caution : During assembling, dressed the 2P wire into the slots as shown.



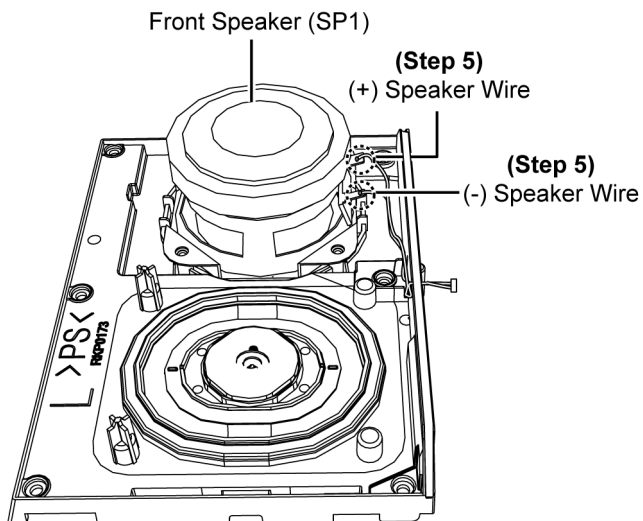
Step 3 : Remove 4 screws.



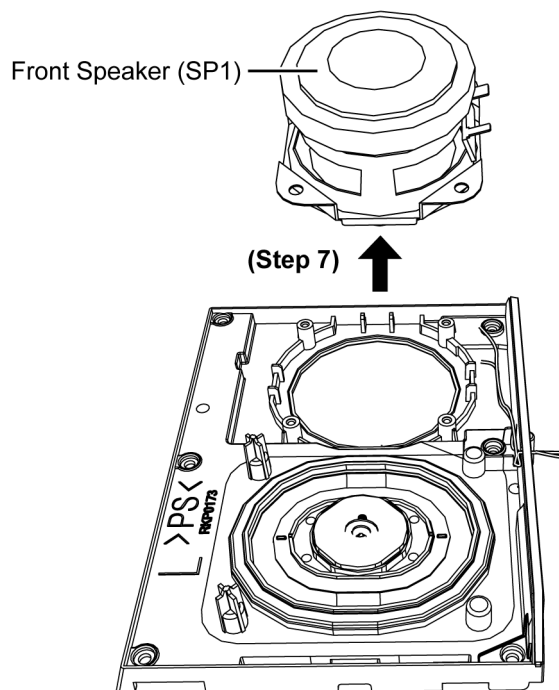
Step 4 : Lift up the Front Speaker Assembly (L) using a flat-head screw driver.



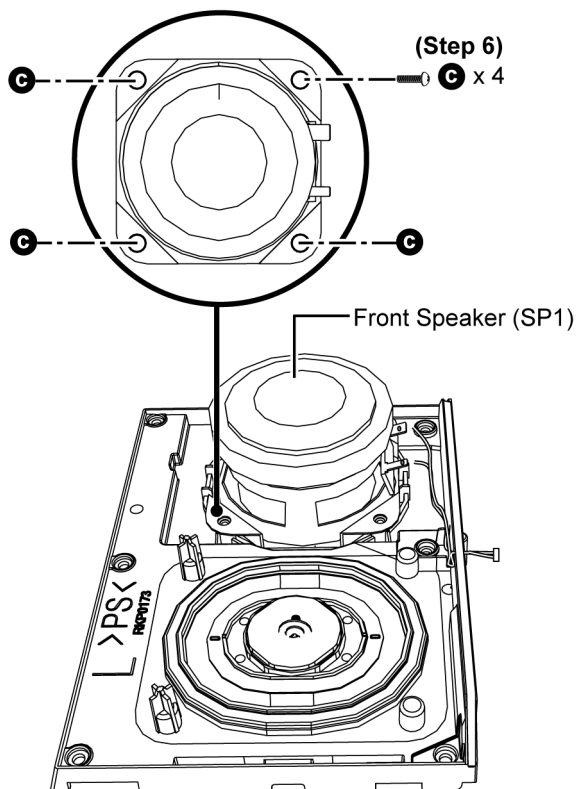
Step 5 : Desolder the (+) speaker wire and (-) speaker wire at the terminals on the Front Speaker (SP1).



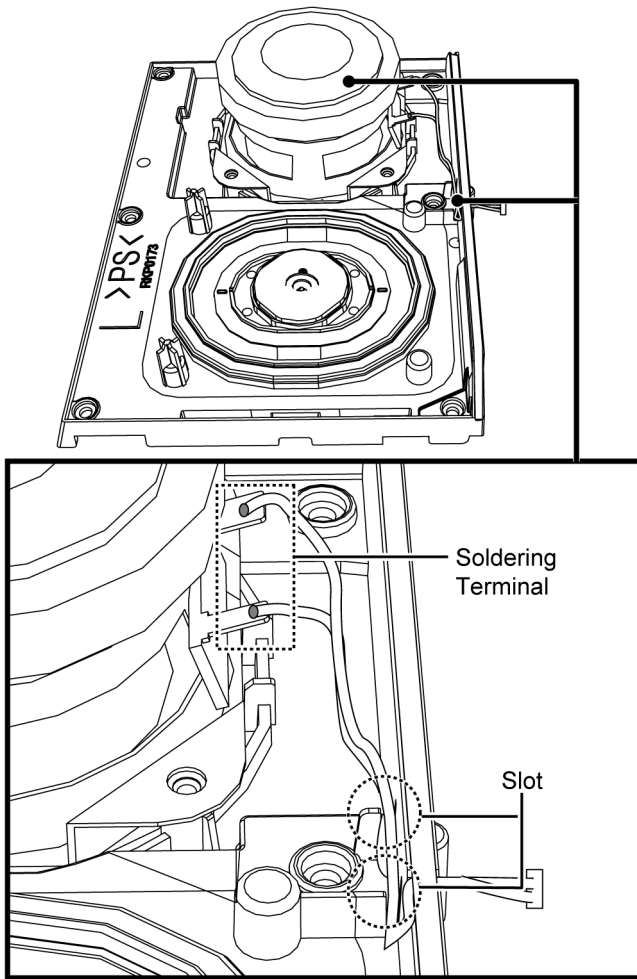
Step 7 : Remove the Front Speaker (SP1).



Step 6 : Remove 4 screws.



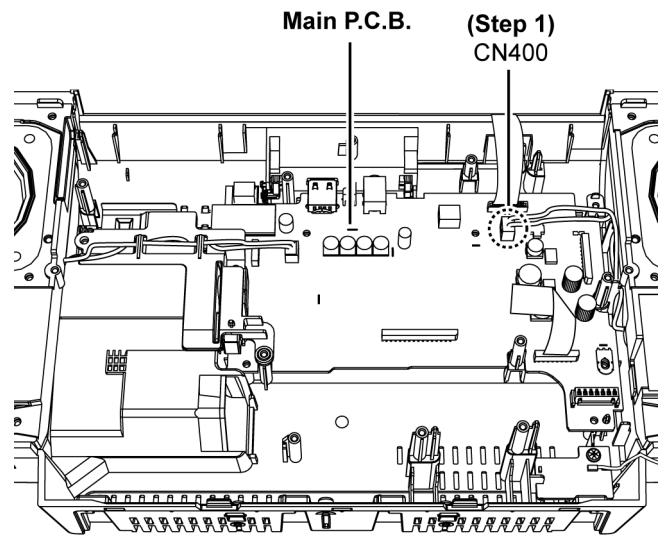
Caution 1 : During assembling, ensure the speaker wires is soldered properly, check for dry joints.
Caution 2 : During assembling, dressed the speaker wires into the slots.



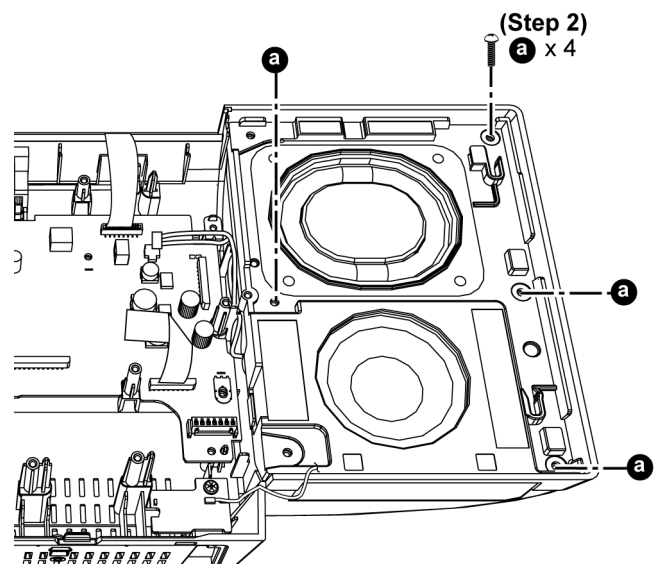
11.34. Disassembly of Front Speaker (SP2)

- Refer to "Disassembly of Base Stand Assembly"
- Refer to "Disassembly of Door Assembly"
- Refer to "Disassembly of Front Ornament Unit"
- Refer to "Disassembly of Front Panel Block"
- Refer to (Step 1) - (Step 5) of item 11.22.
- Refer to (Step 1) - (Step 5) of item 11.23.
- Refer to (Step 1) - (Step 3) of item 11.26.
- Refer to "Disassembly of CD Mechanism"

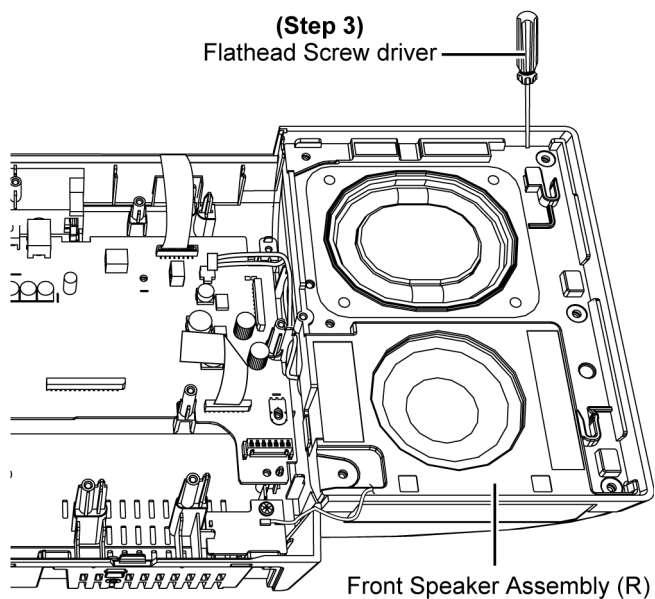
Step 1 : Detach 2P wire at the connector (CN400) on the Main P.C.B..



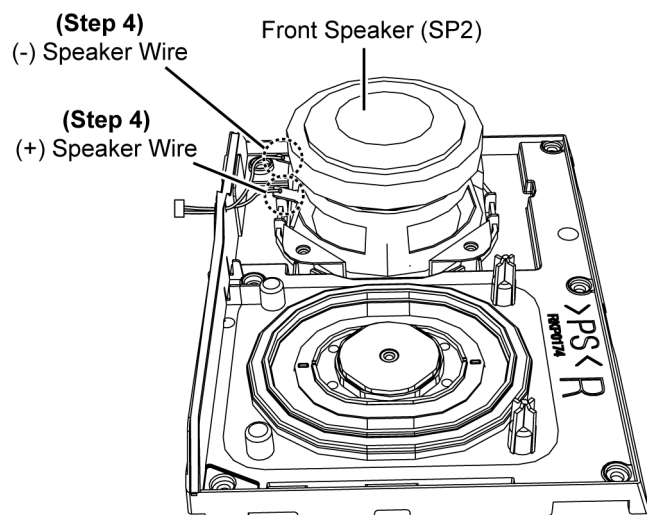
Step 2 : Remove 4 screws.



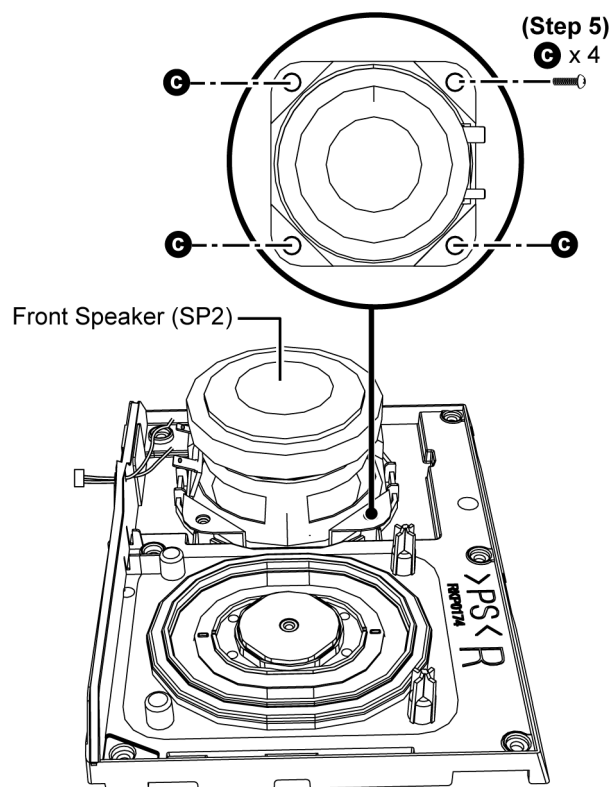
Step 3 : Lift up the Front Speaker Assembly (R) using a Flat-head screw driver.



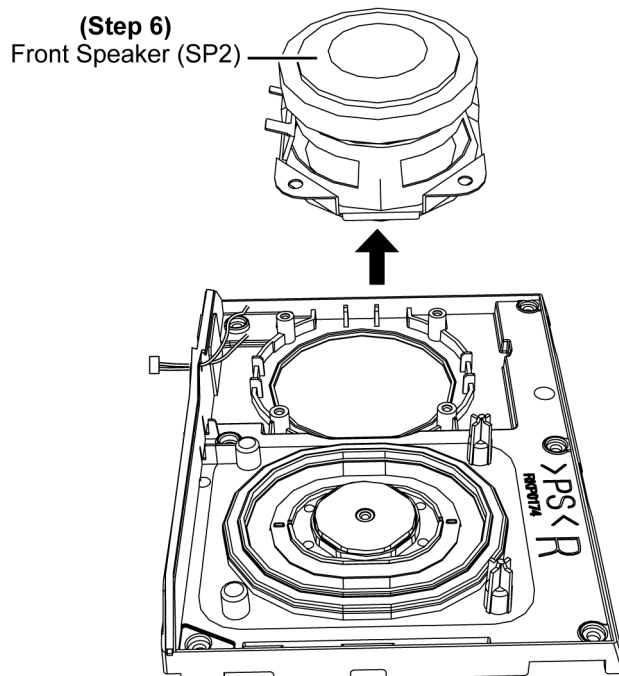
Step 4 : Desolder the (+) speaker wire and (-) speaker wire at the terminals on the Front Speaker (SP2).



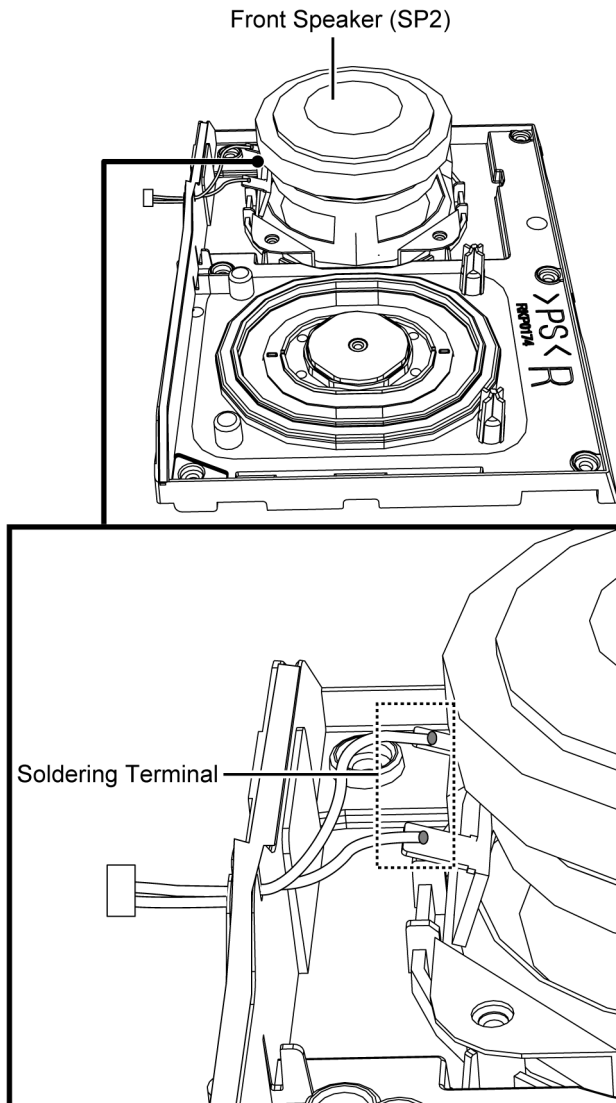
Step 5 : Remove 4 screws.



Step 6 : Remove Front Speaker (SP2).



Caution 1 : During assembling, ensure the speaker wires is soldered properly, check for dry joints.



11.35. Disassembly of Passive Radiator Unit (SP3 & SP4)

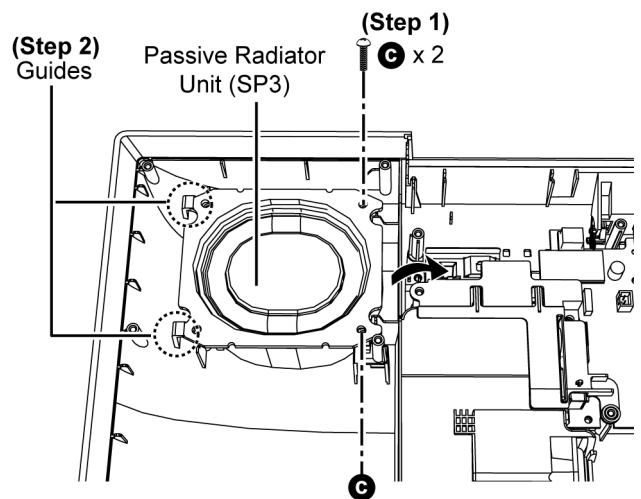
Note : Passive Radiator Unit (SP3 & SP4) have the same mechanical structure. For disassembling of Passive Radiator Unit (SP4), repeat the (Step 1) to (step 3) of 11.34. Below illustrated Passive Radiator Unit (SP3)

- Refer to "Disassembly of Base Stand Assembly"
- Refer to "Disassembly of Door Assembly"
- Refer to "Disassembly of Front Ornament Unit"
- Refer to "Disassembly of Front Panel Block"
- Refer to (Step 1) - (Step 5) of item 11.22.
- Refer to (Step 1) - (Step 5) of item 11.23.
- Refer to (Step 1) - (Step 3) of item 11.26.
- Refer to "Disassembly of CD Mechanism"
- Refer to (Step 1) - (Step 4) of item 11.33.

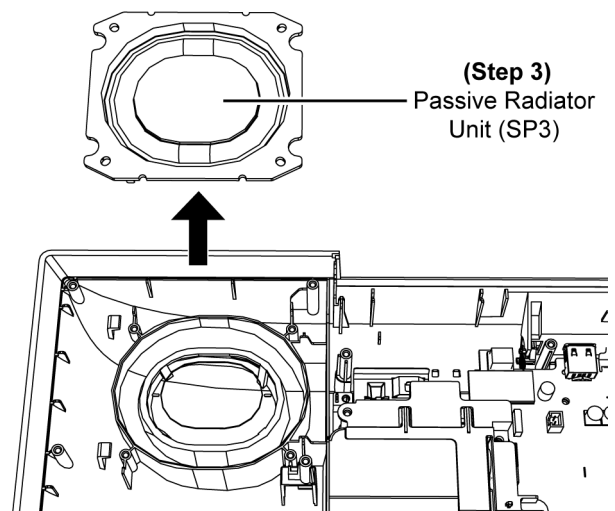
Step 1 : Remove 2 screws.

Step 2 : Slightly lift up the Passive Radiator Unit (SP3) as shown.

Caution : During assembling, ensure the Passive Radiator Unit (SP3) is seated under the guides of the cabinet as shown.



Step 3 : Remove the Passive Radiator Unit (SP3).



12 Service Position

Note: For description of the disassembly procedures, see the Section 11

12.1. Checking & Repairing of Air-Play Connect P.C.B.

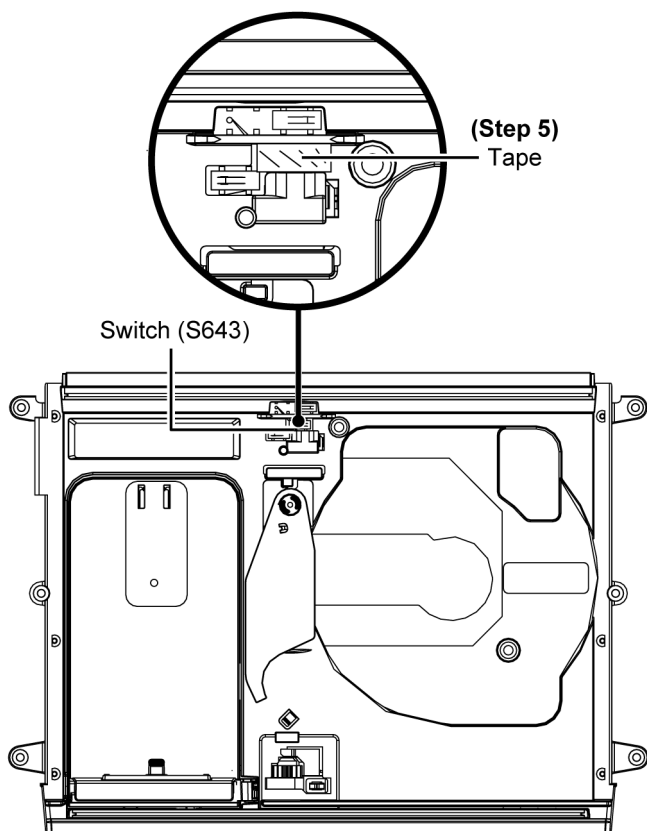
Step 1 : Remove the Base Stand Assembly.

Step 2 : Remove the Door Assembly.

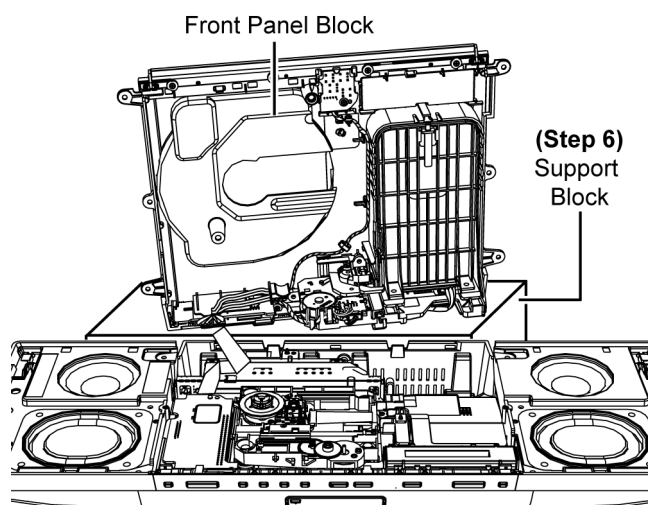
Step 3 : Remove the Front Ornament Unit.

Step 4 : Remove the Front Panel Block.

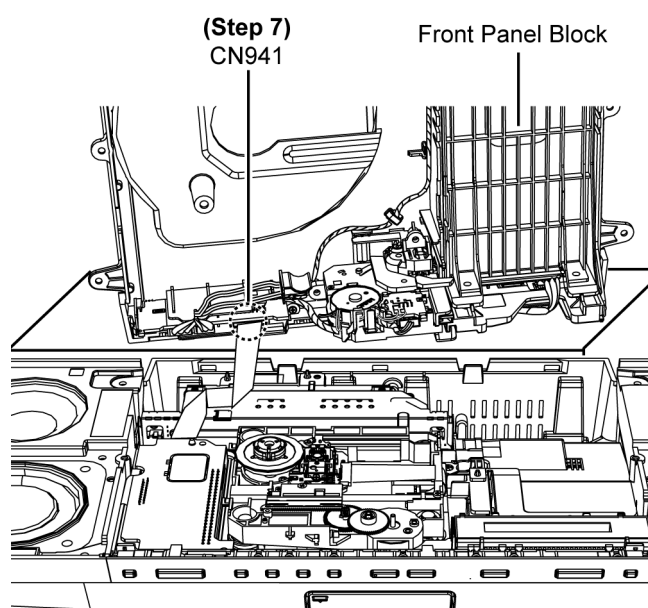
Step 5 : Use a tape to keep the centre switch (S643) pressed.



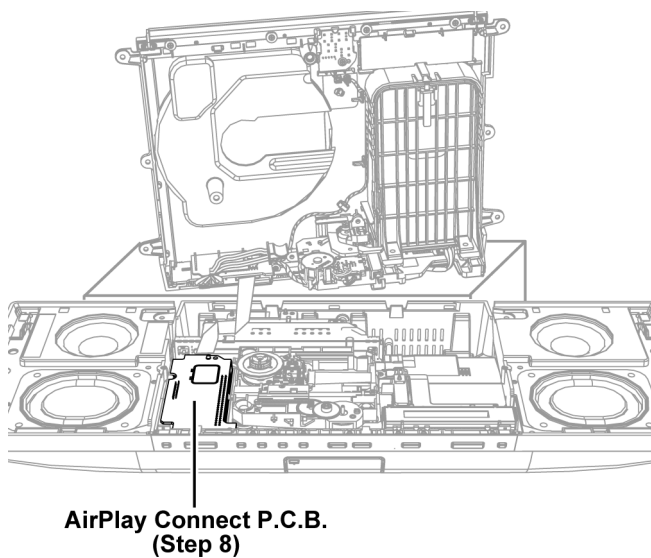
Step 6 : Place a Support Block to support the Front Panel Block as shown.



Step 7 : Connect 16P FFC at the connector (CN941) on Remote Sensor P.C.B..



Step 8 : Check and repair the AirPlay Connect P.C.B. according to the diagram shown.



12.2. Checking & Repairing of SMPS P.C.B.

Step 1 : Remove the Base Stand Assembly.

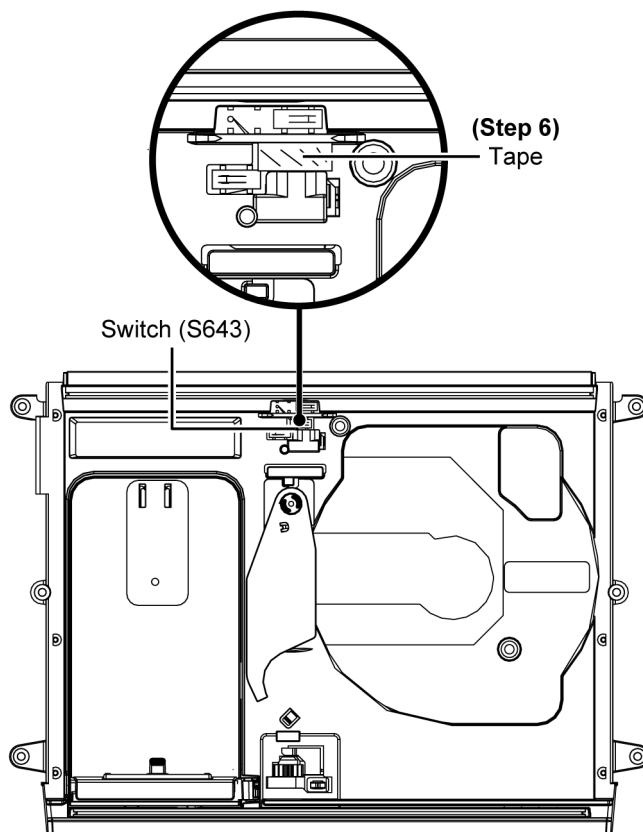
Step 2 : Remove the Door Assembly.

Step 3 : Remove the Front Ornament Unit.

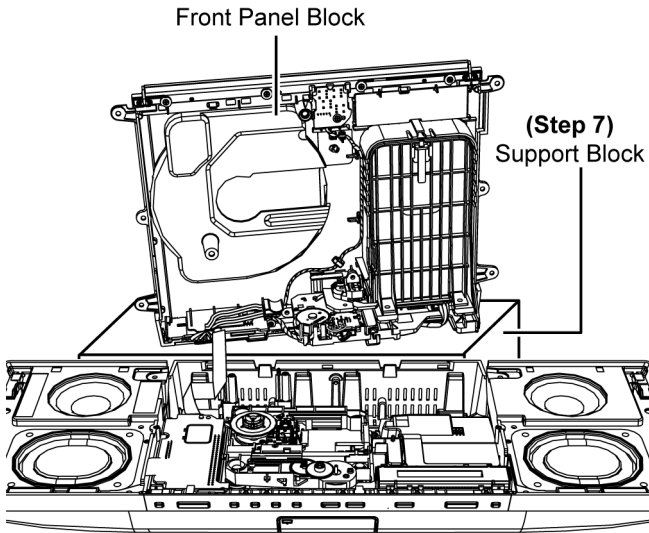
Step 4 : Remove the Front Panel Block.

Step 5 : Remove the SMPS P.C.B..

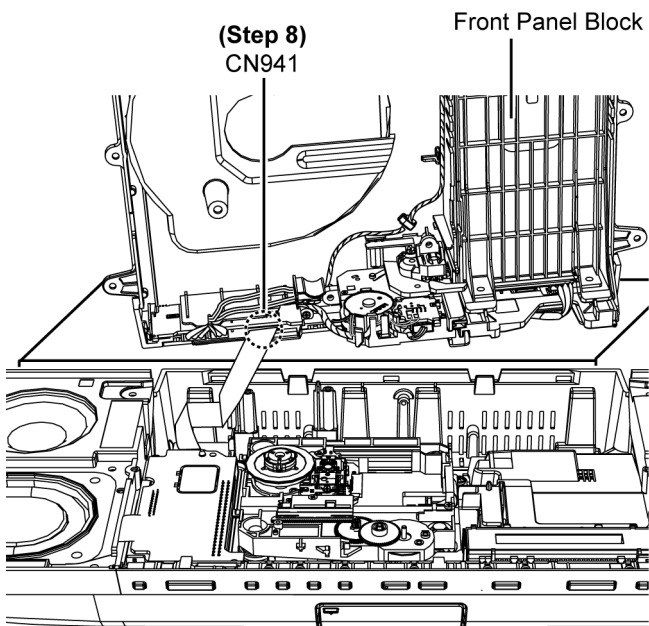
Step 6 : Use a tape to keep the centre switch (S643) pressed.



Step 7 : Place a Support Block to support the Front Panel Block as shown.

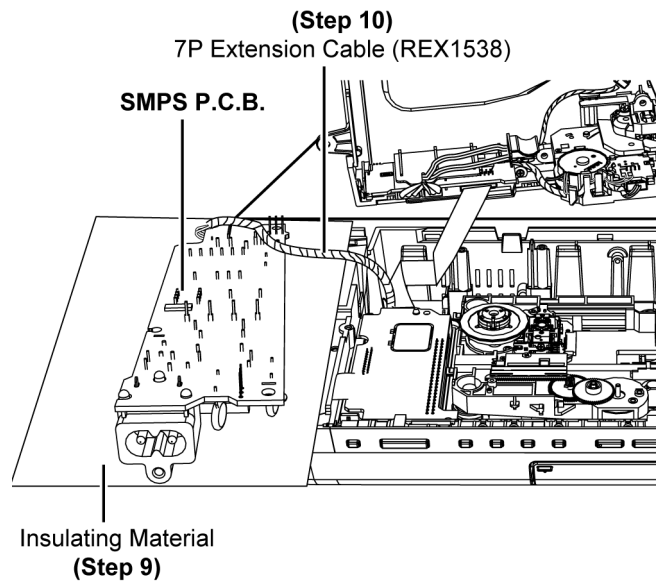


Step 8 : Connect 16P FFC at the connector (CN941) on Remote Sensor P.C.B..

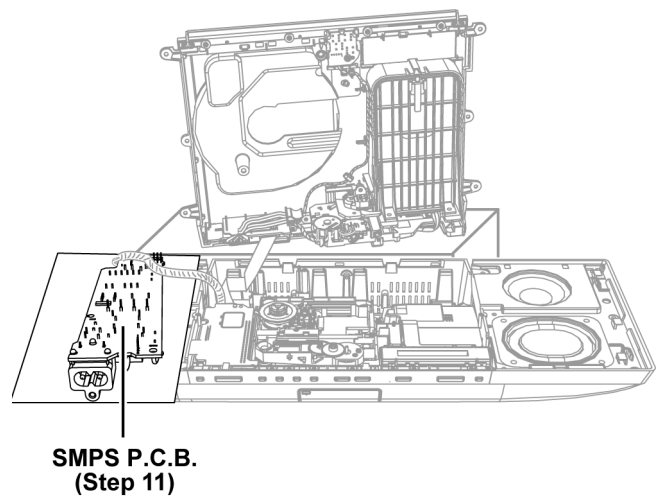


Step 9 : Place the SMPS P.C.B. on the Insulating Material.

Step 10 : Connect 7P extension cable (REX1538) from P1700 on the SMPS P.C.B. to CN1100 on the Main P.C.B..



Step 11 : Check and repair the SMPS P.C.B. according to the diagram shown.



12.3. Checking & Repairing of Panel P.C.B.

Step 1 : Remove the Base Stand Assembly.

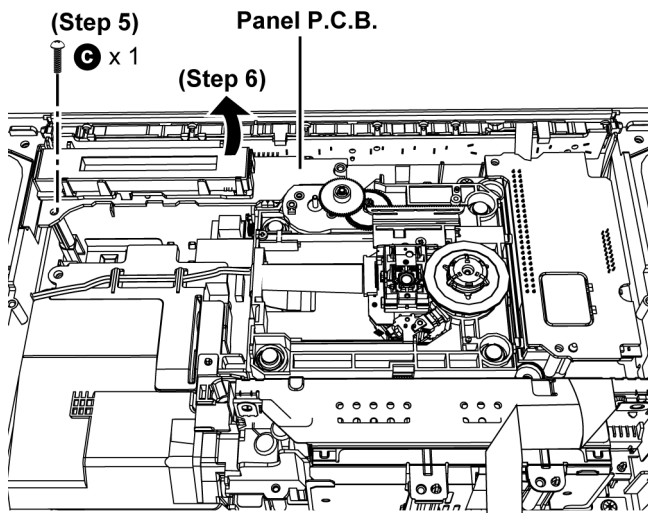
Step 2 : Remove the Door Assembly.

Step 3 : Remove the Front Ornament Unit.

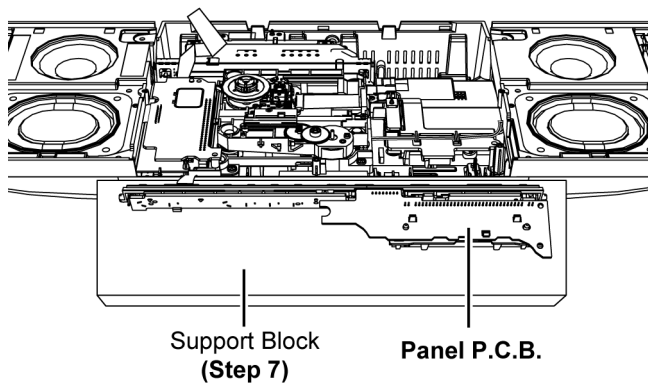
Step 4 : Remove the Front Panel Block.

Step 5 : Remove 1 screw.

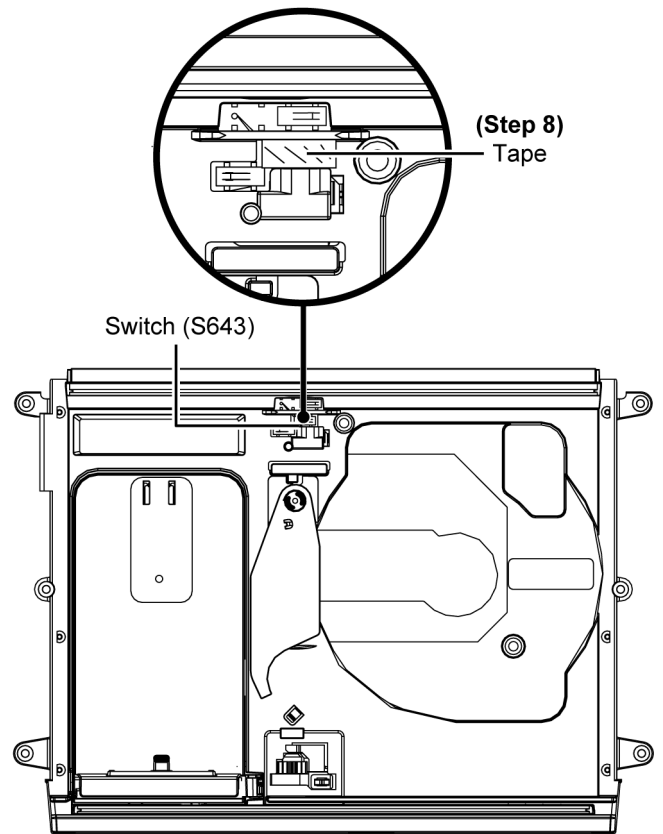
Step 6 : Lift up the Panel P.C.B. with Button Ornament Unit as shown.



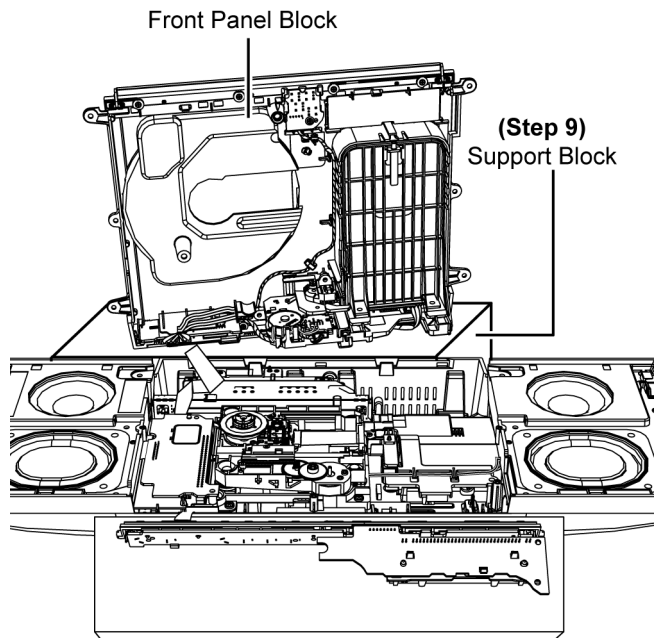
Step 7 : Place the Panel P.C.B. on the Support Block.



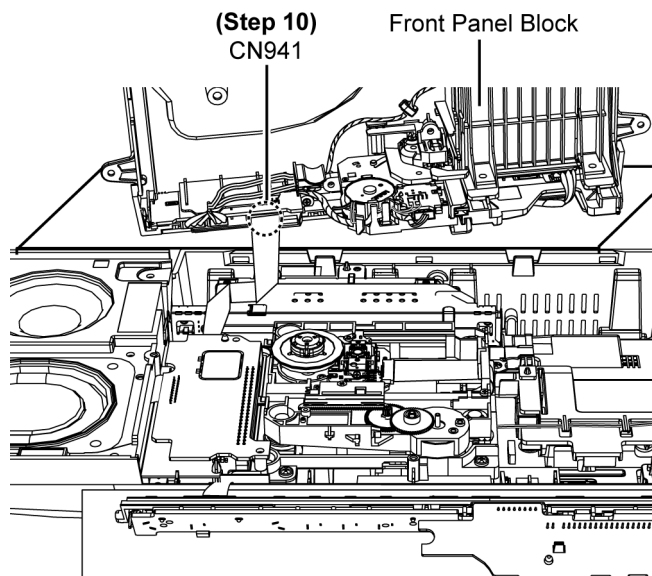
Step 8 : Use a tape to keep the centre switch (S643) pressed.



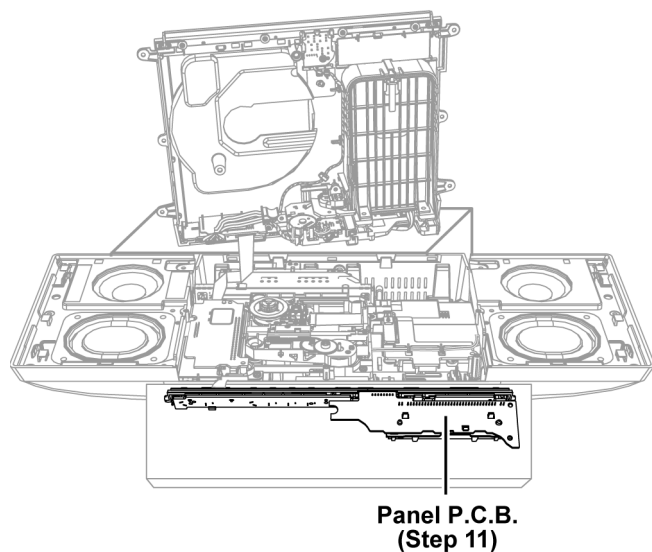
Step 9 : Place the Support Block to support the Front Panel Block as shown.



Step 10 : Connect 16P FFC at the connector (CN941) on Remote Sensor P.C.B..



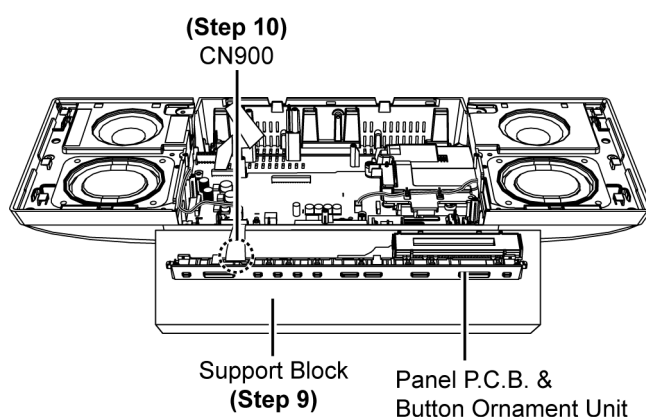
Step 11 : Check and repair the Panel P.C.B. according to the diagram shown.



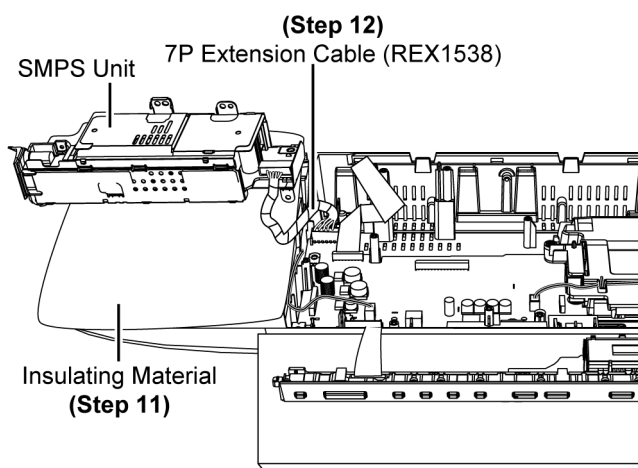
12.4. Checking & Repairing of CD Servo P.C.B.

Note : Insert CD before Checking CD Servo P.C.B.

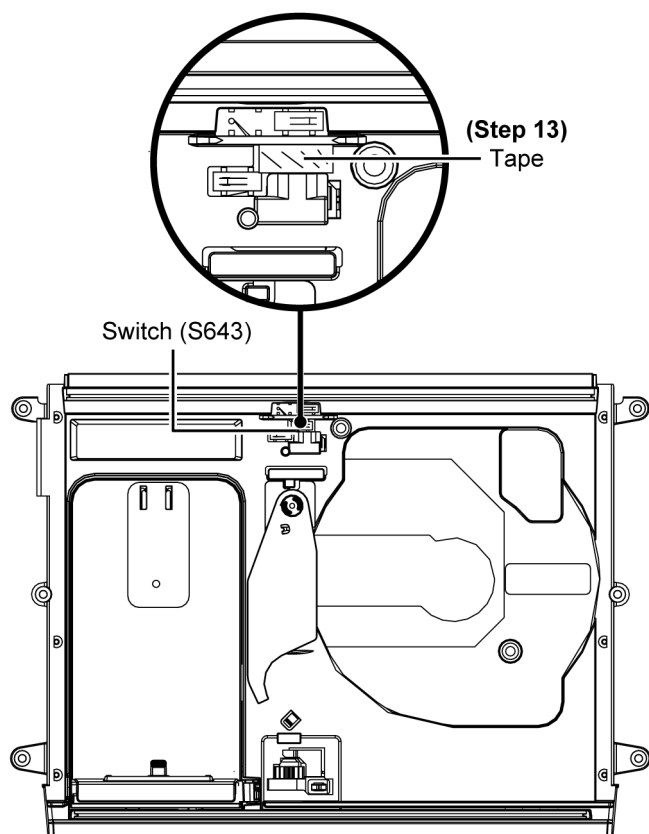
- Step 1 :** Remove the Base Stand Assembly.
- Step 2 :** Remove the Door Assembly.
- Step 3 :** Remove the Front Ornament Unit.
- Step 4 :** Remove the Front Panel Block.
- Step 5 :** Remove the AirPlay Module Unit.
- Step 6 :** Remove the SMPS Unit.
- Step 7 :** Remove the Panel P.C.B. & Button Ornament Unit.
- Step 8 :** Remove the CD Mechanism.
- Step 9 :** Place the Panel P.C.B. on the Support Block.
- Step 10 :** Connect 15P FFC at the connector (CN900) on the Button P.C.B..



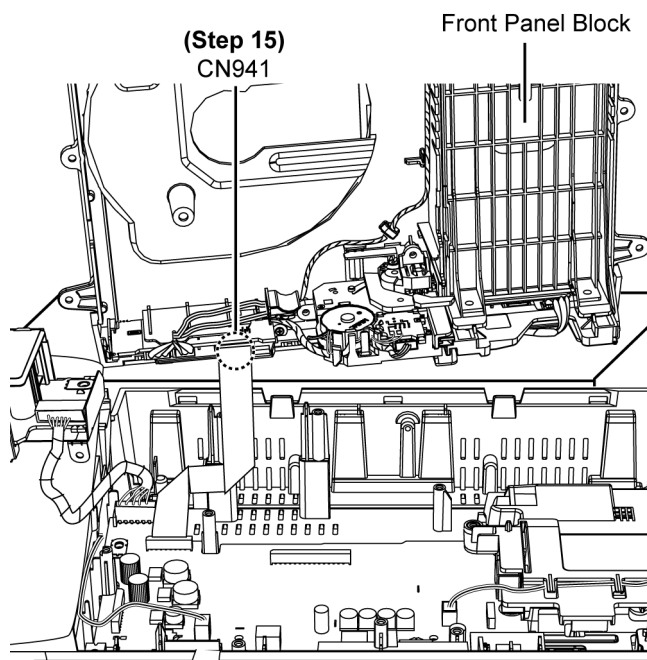
- Step 11 :** Place the SMPS Unit on the Insulating Material.
- Step 12 :** Connect 7P extension cable (REX1538) from P1700 on the SMPS P.C.B. to CN1100 on the Main P.C.B..



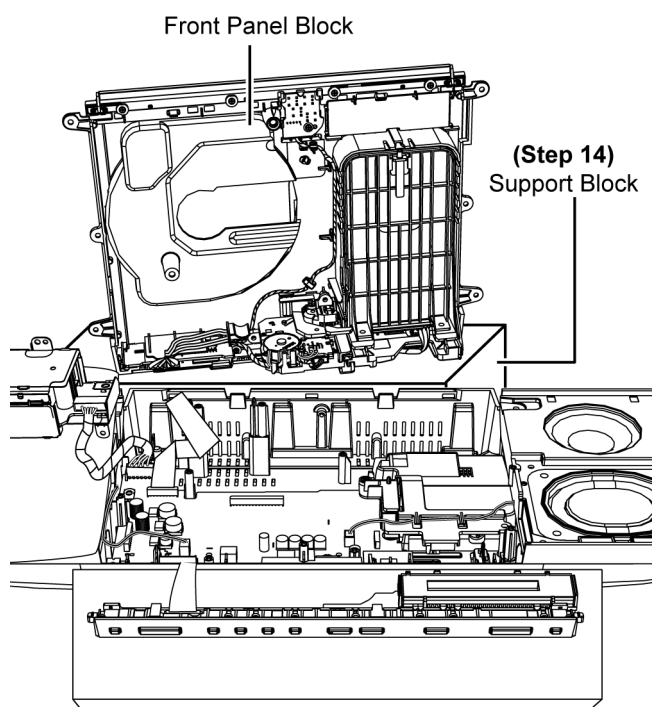
Step 13 : Use a tape to keep the centre switch (S643) pressed.



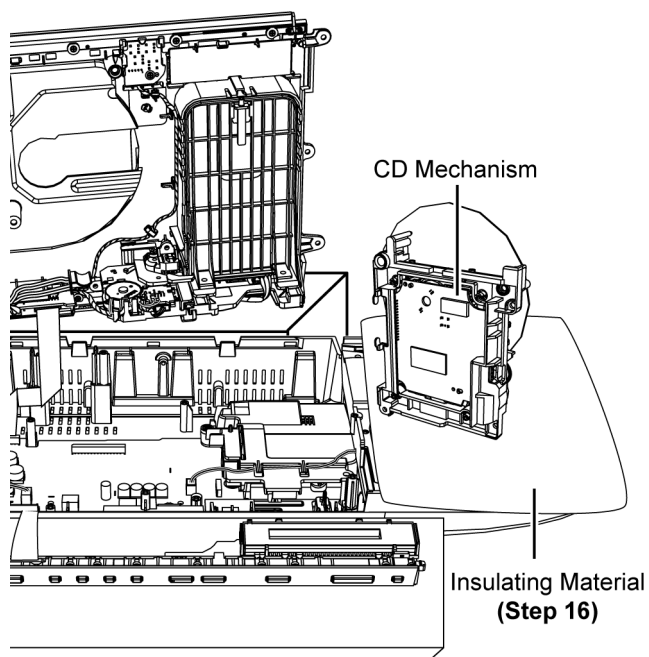
Step 15 : Connect 16P FFC at the connector (CN941) on Remote Sensor P.C.B..



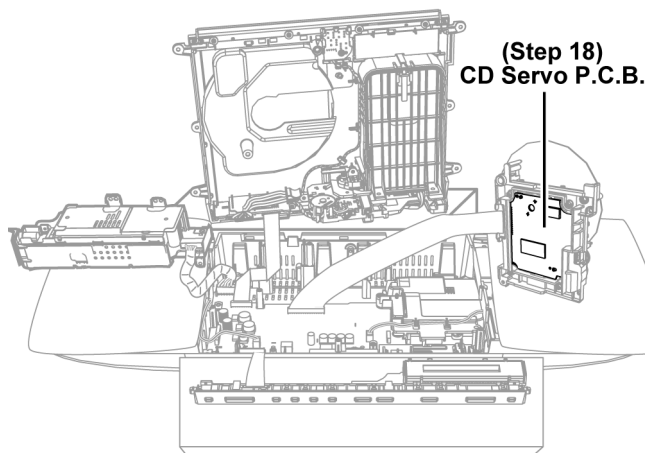
Step 14 : Place a Support Block to support the Front Panel Block as shown.



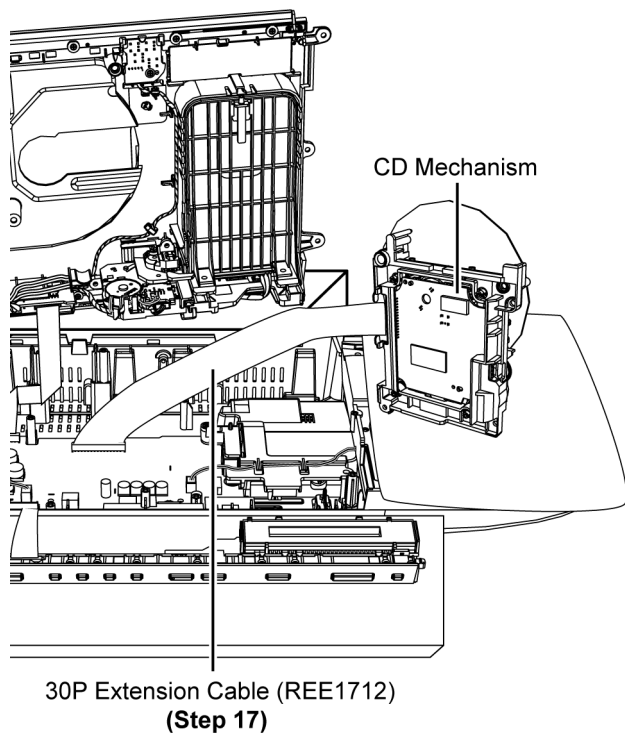
Step 16 : Place the CD Mechanism on the Insulating Material.



Step 18 : Check and repair the CD Servo P.C.B. according to the diagram shown.



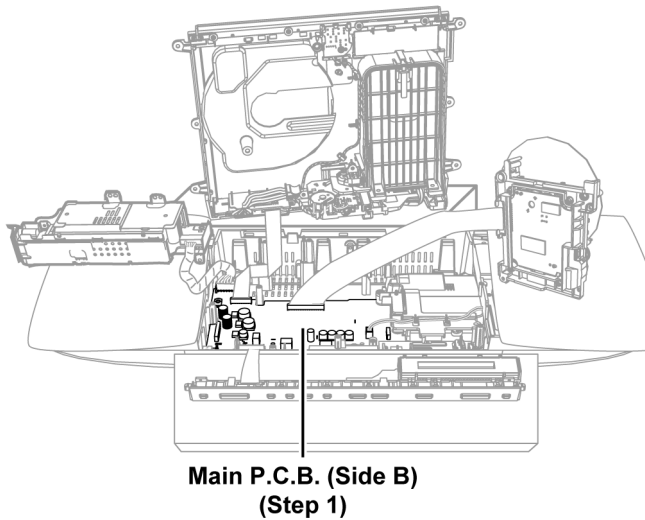
Step 17 : Connect 30P extension cable (REE1712) from CN6006 on the Main P.C.B. to CN7002 on the CD Servo P.C.B..



12.5. Checking & Repairing of Main P.C.B. (Side B)

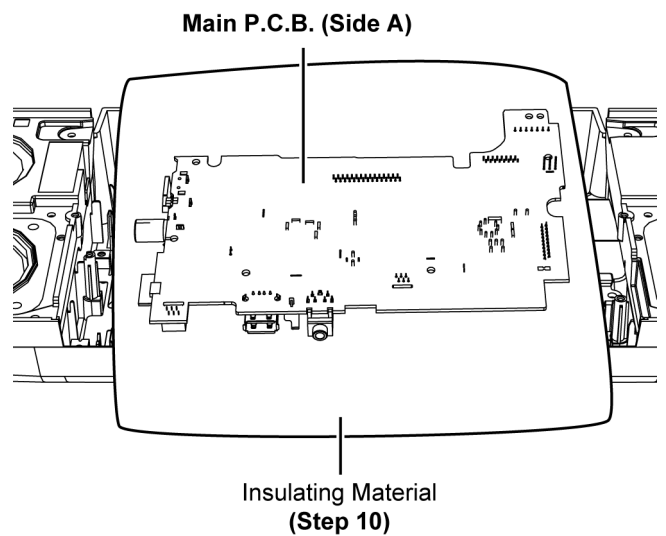
- Refer to (Step 1) - (Step 17) of item 12.4.

Step 1 : Check and repair the Main P.C.B. (Side B) according to the diagram shown.

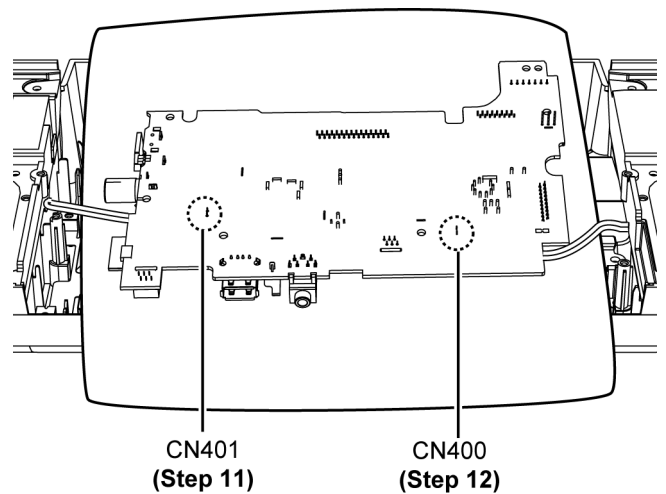


12.6. Checking & Repairing of Main P.C.B. (Side A)

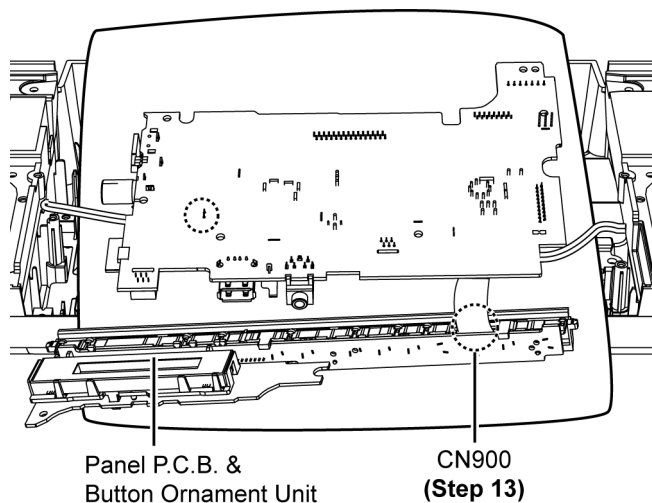
- Step 1 :** Remove the Base Stand Assembly.
Step 2 : Remove the Door Assembly.
Step 3 : Remove the Front Ornament Unit.
Step 4 : Remove the Front Panel Block.
Step 5 : Remove the AirPlay Module Unit.
Step 6 : Remove the SMPS Unit.
Step 7 : Remove the Panel P.C.B. & Button Ornament Unit.
Step 8 : Remove the CD Mechanism.
Step 9 : Remove the Main P.C.B..
Step 10 : Place the Main P.C.B. (Side A) on the Insulating Material.



- Step 11 :** Connect 2P wire at the connector (CN401) on the Main P.C.B..
Step 12 : Connect 2P wire at the connector (CN400) on the Main P.C.B..

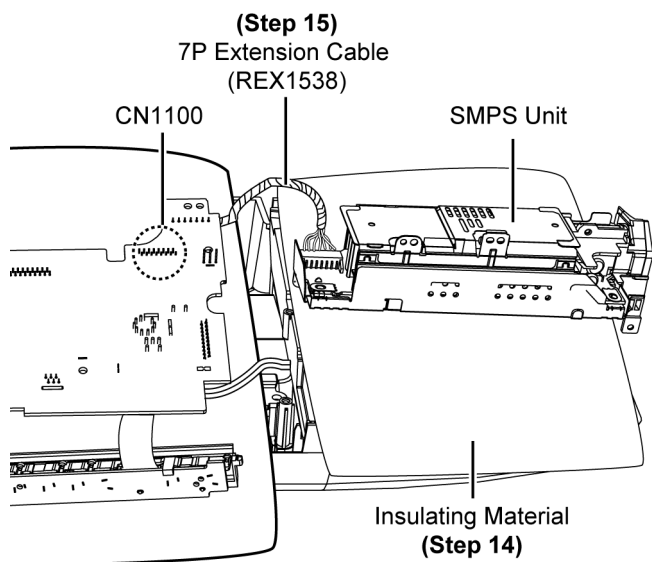


Step 13 : Connect 15P FFC at the connector (CN900) on the Button P.C.B..



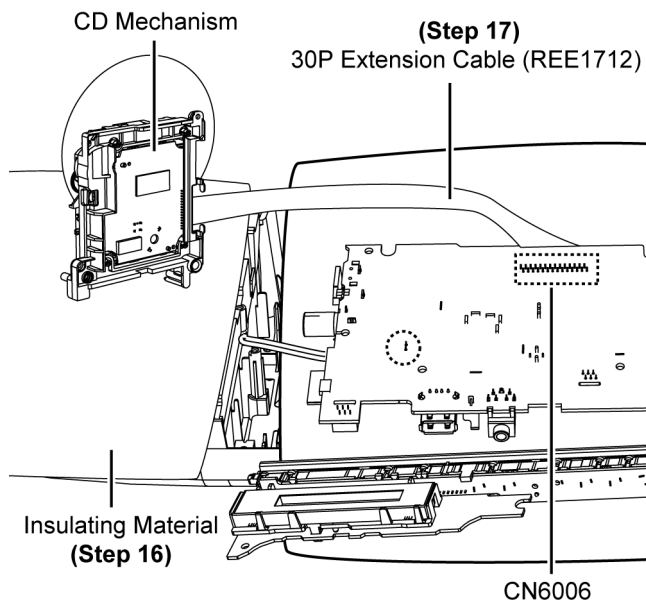
Step 14 : Place the SMPS Unit on the Insulating Material.

Step 15 : Connect 7P extension cable (REX1538) from P1700 on the SMPS P.C.B. to CN1100 on the Main P.C.B..

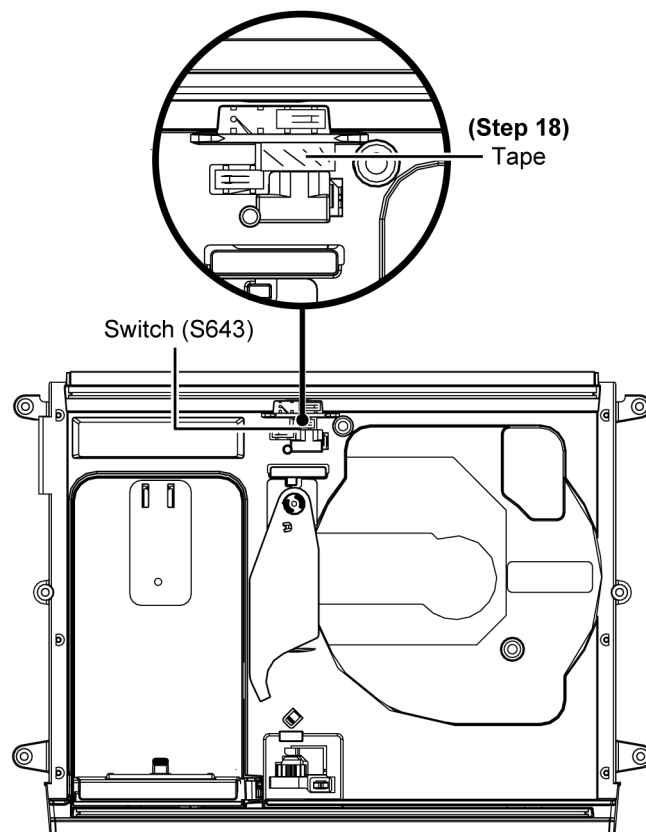


Step 16 : Place the CD Mechanism on the Insulating Material.

Step 17 : Connect 30P extension cable (REE1712) from CN6006 on the Main P.C.B. to CN7002 on the CD Servo P.C.B..

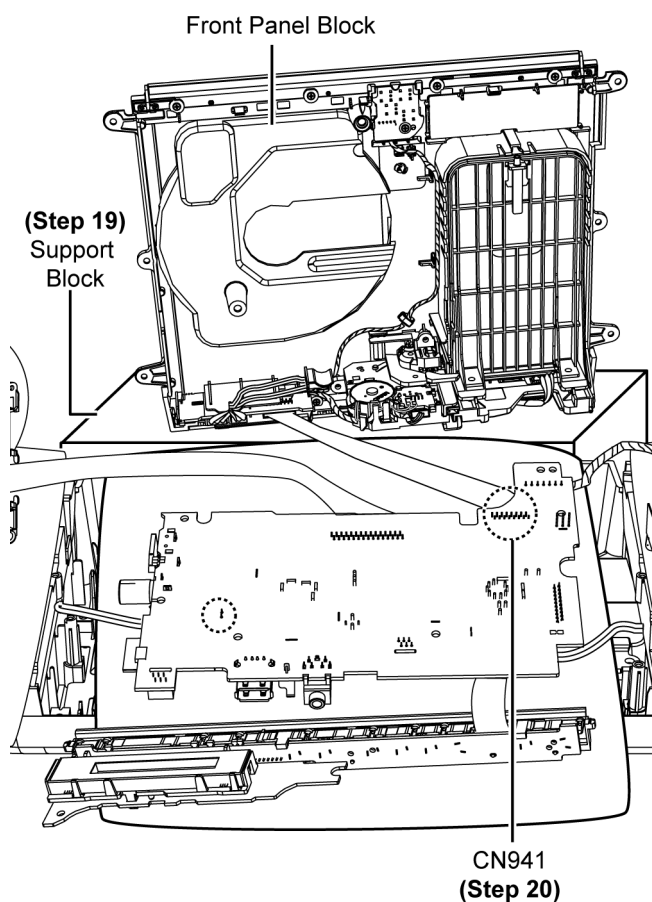


Step 18 : Use a tape to keep the centre switch (S643) pressed.

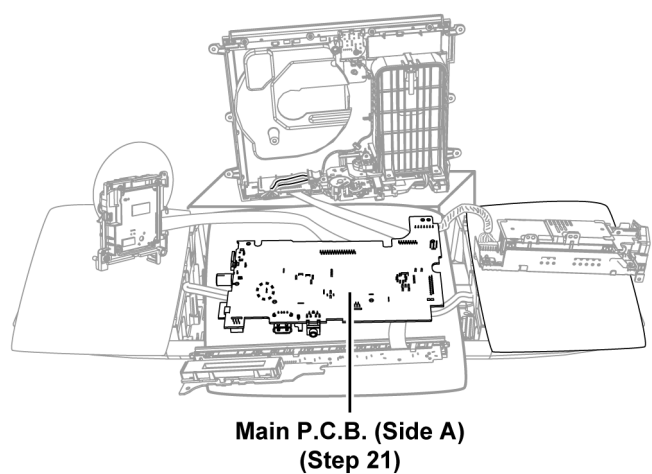


Step 19 : Place a Support Block to support the Front Panel Block as shown.

Step 20 : Connect 16P FFC at the connector (CN941) on Remote Sensor P.C.B..

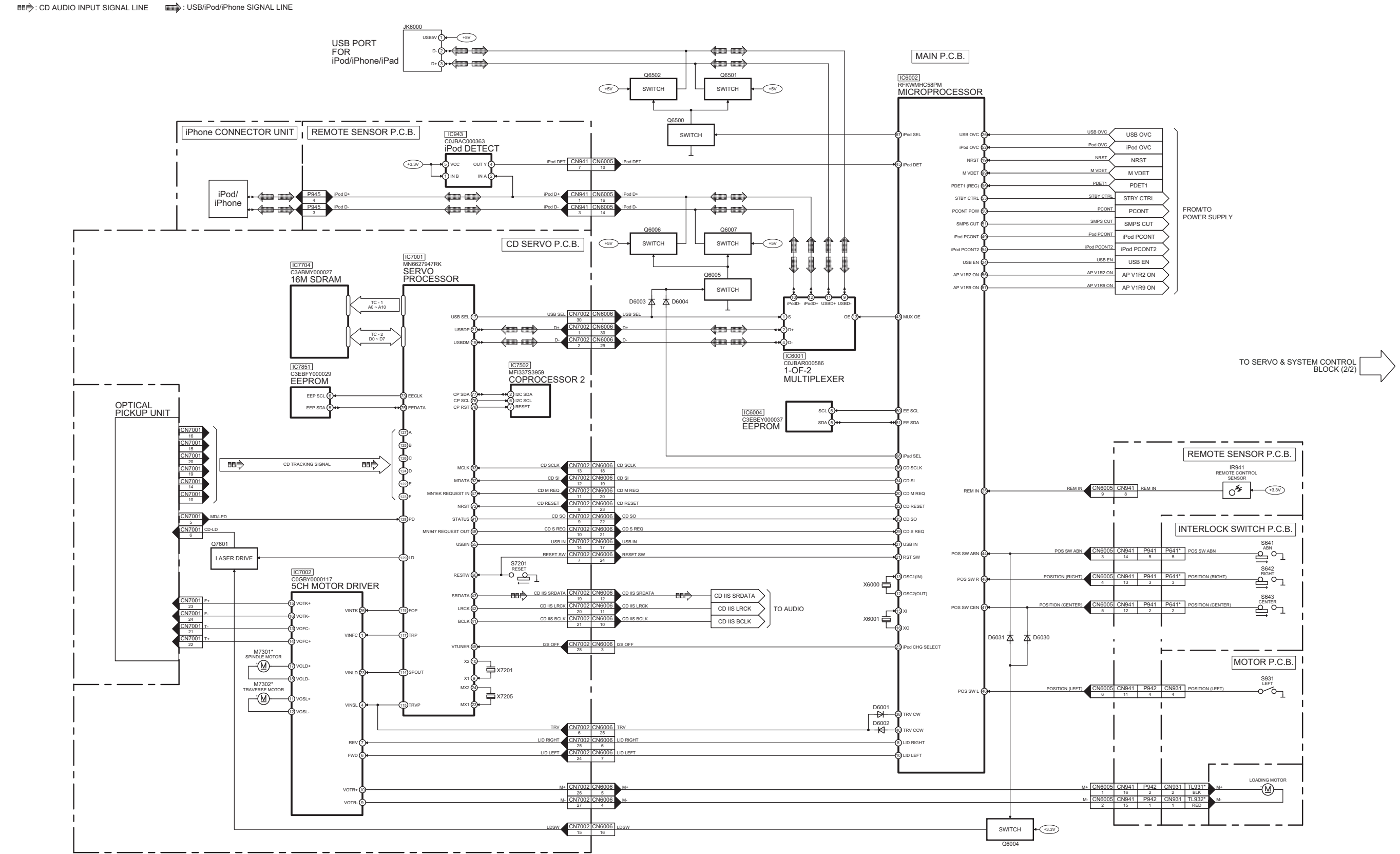


Step 21 : Check and repair the Main P.C.B. (Side A) according to the diagram shown..



13 Block Diagram

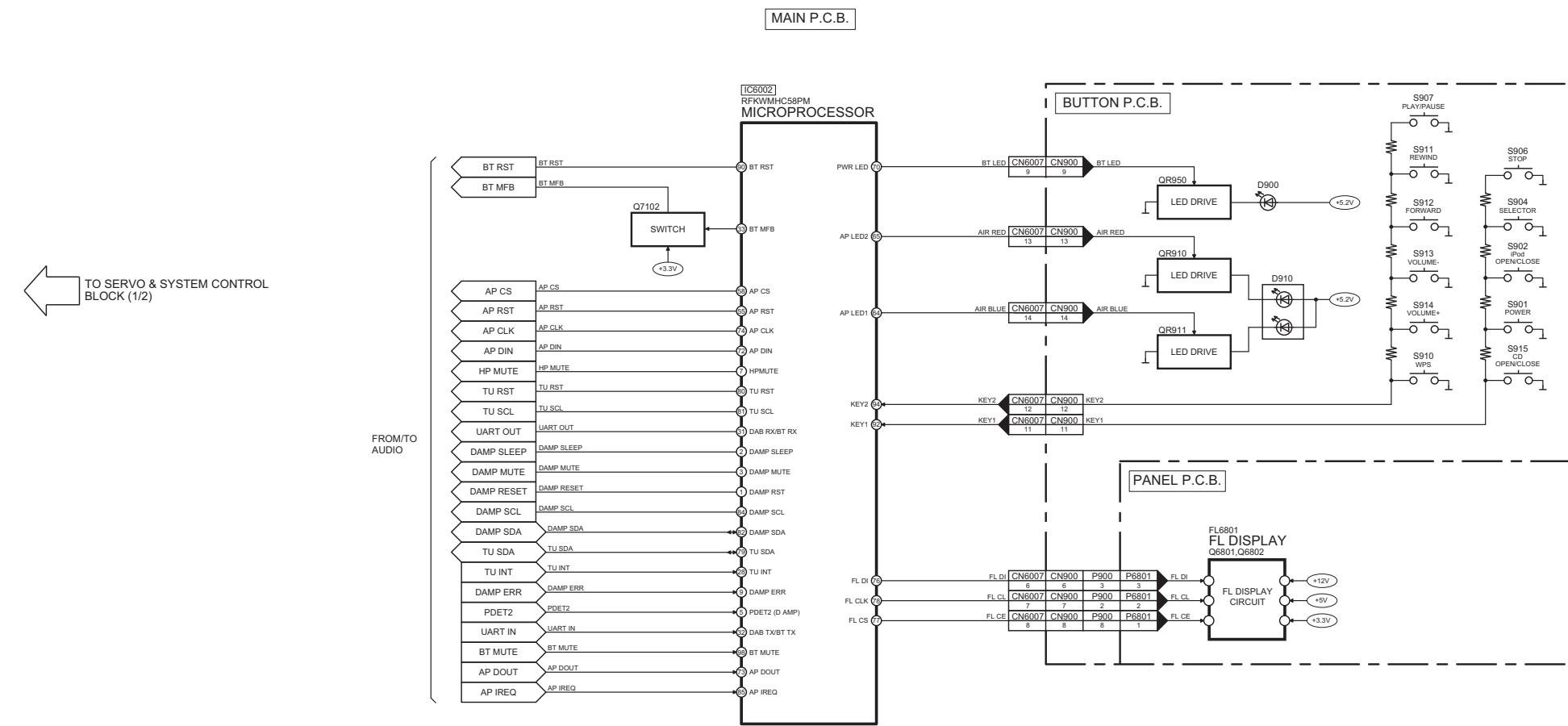
13.1. SERVO & SYSTEM CONTROL (1/2) BLOCK DIAGRAM



SC-HC58P/PC SERVO & SYSTEM CONTROL (1/2) BLOCK DIAGRAM

13.2. SERVO & SYSTEM CONTROL (2/2) BLOCK DIAGRAM

CD AUDIO INPUT SIGNAL LINE USB/iPod/iPhone SIGNAL LINE




SC-HC58P/PC SERVO & SYSTEM CONTROL (2/2) BLOCK DIAGRAM

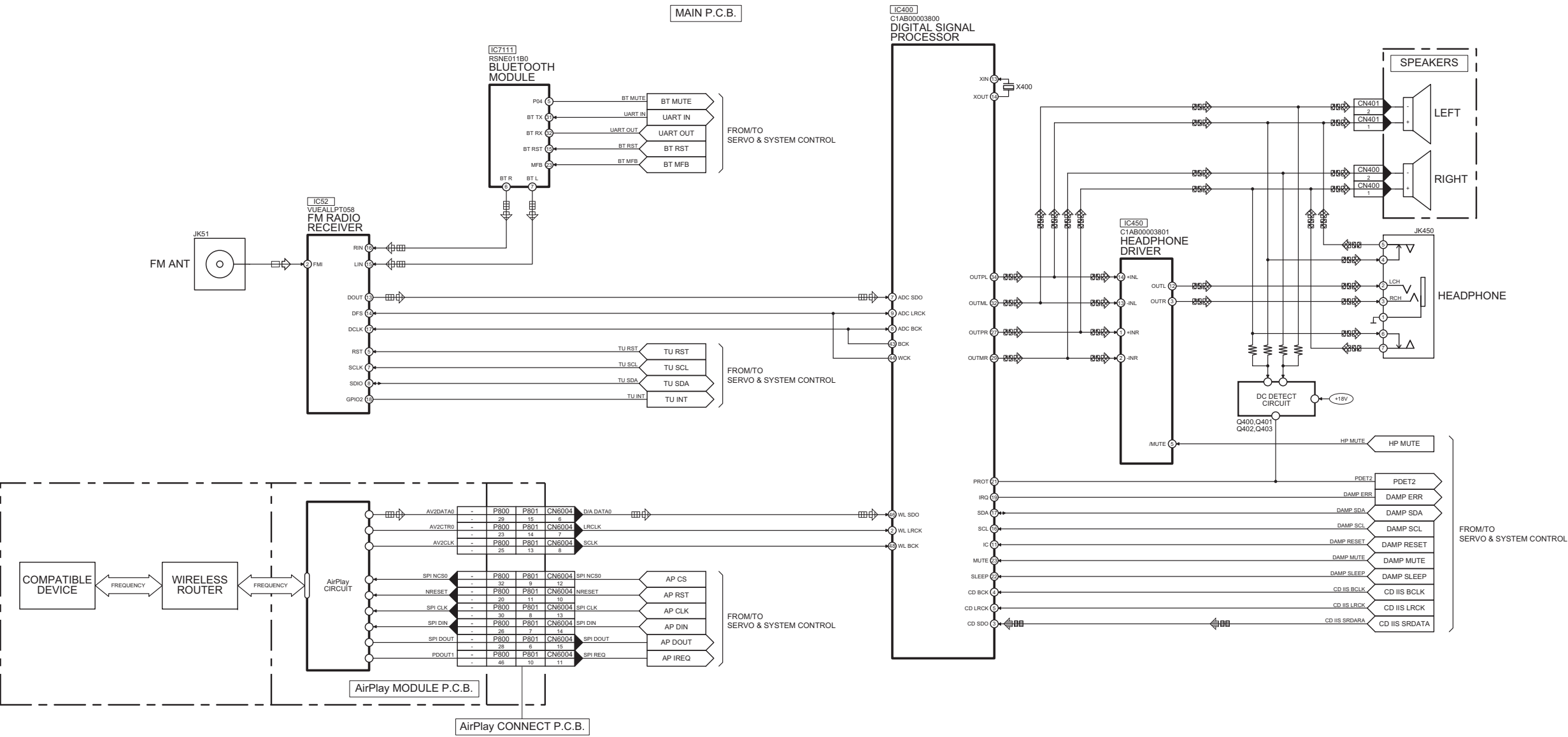
13.3. IC TERMINAL CHART

| TC | IC7704 16M SDRAM | | SIGNAL NAME | IC7001 SERVO PROCESSOR | |
|----|---------------------|--------|-------------|---------------------------|-----------|
| | PORT NAME | PIN NO | | PIN NO | PORT NAME |
| 1 | A0 | 21 | A0 | 35 | A0 |
| | A1 | 22 | A1 | 34 | A1 |
| | A2 | 23 | A2 | 33 | A2 |
| | A3 | 24 | A3 | 112 | A3 |
| | A4 | 27 | A4 | 111 | A4 |
| | A5 | 28 | A5 | 110 | A5 |
| | A6 | 29 | A6 | 109 | A6 |
| | A7 | 30 | A7 | 108 | A7 |
| | A8 | 31 | A8 | 107 | A8 |
| | A9 | 32 | A9 | 106 | A9 |
| | A10 | 20 | A10 | 36 | A10 |

| TC | IC7704 16M SDRAM | | SIGNAL NAME | IC7001 SERVO PROCESSOR | |
|----|---------------------|---------|-------------|---------------------------|-----------|
| | PORT NAME | PIN NO | | PIN NO | PORT NAME |
| 2 | DQ0 / DQ15 | 2 / 49 | D0 | 102 | D0 |
| | DQ1 / DQ14 | 3 / 48 | D1 | 101 | D1 |
| | DQ2 / DQ13 | 5 / 46 | D2 | 100 | D2 |
| | DQ3 / DQ12 | 6 / 45 | D3 | 99 | D3 |
| | DQ4 / DQ11 | 8 / 43 | D4 | 98 | D4 |
| | DQ5 / DQ10 | 9 / 42 | D5 | 97 | D5 |
| | DQ6 / DQ9 | 11 / 40 | D6 | 96 | D6 |
| | DQ7 / DQ8 | 12 / 39 | D7 | 95 | D7 |

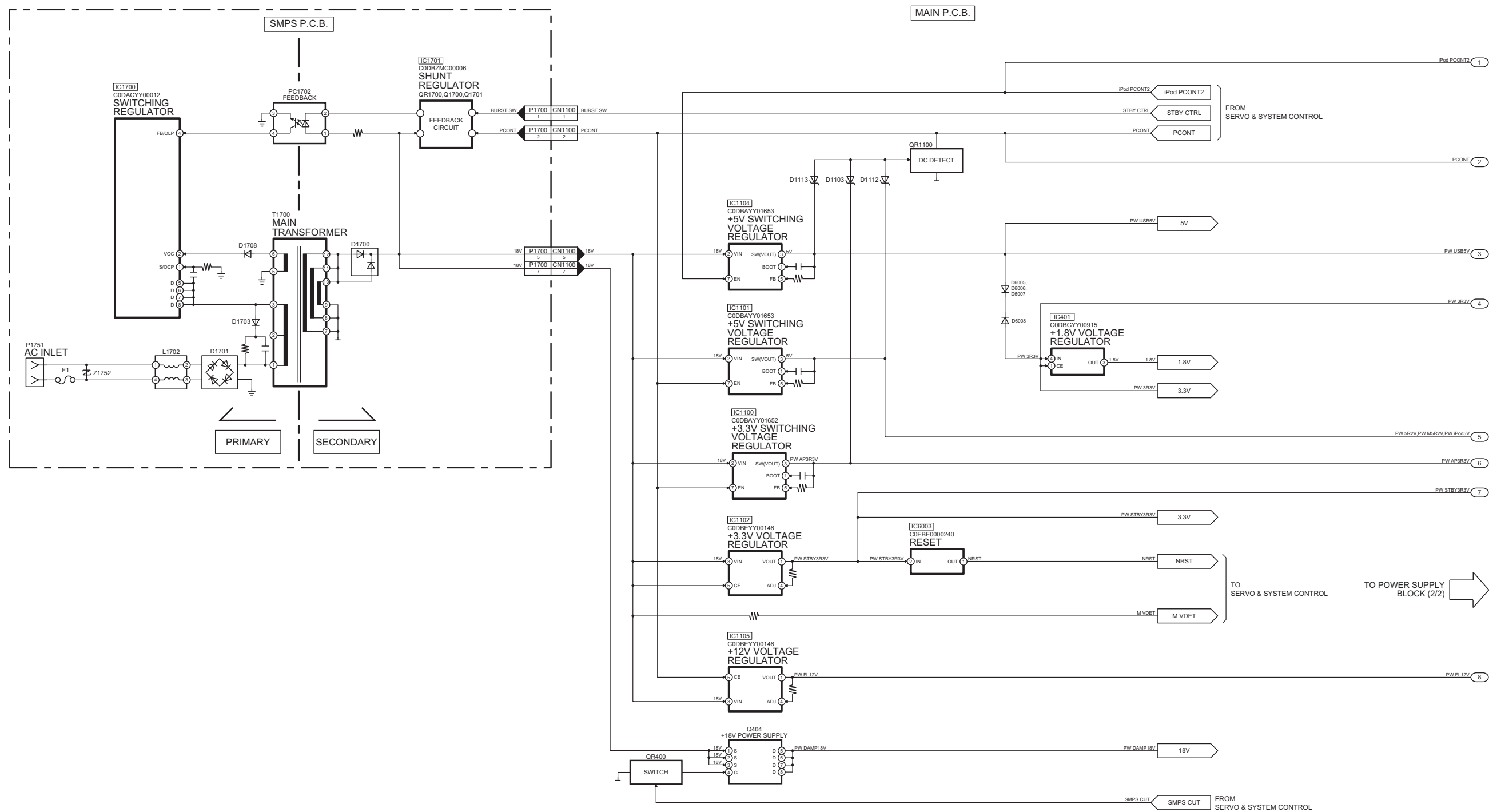
13.4. AUDIO BLOCK DIAGRAM

 : CD AUDIO INPUT SIGNAL LINE
  : TUNER/AirPlay AUDIO INPUT SIGNAL LINE
  : AUDIO OUTPUT SIGNAL LINE
  : FM SIGNAL LINE



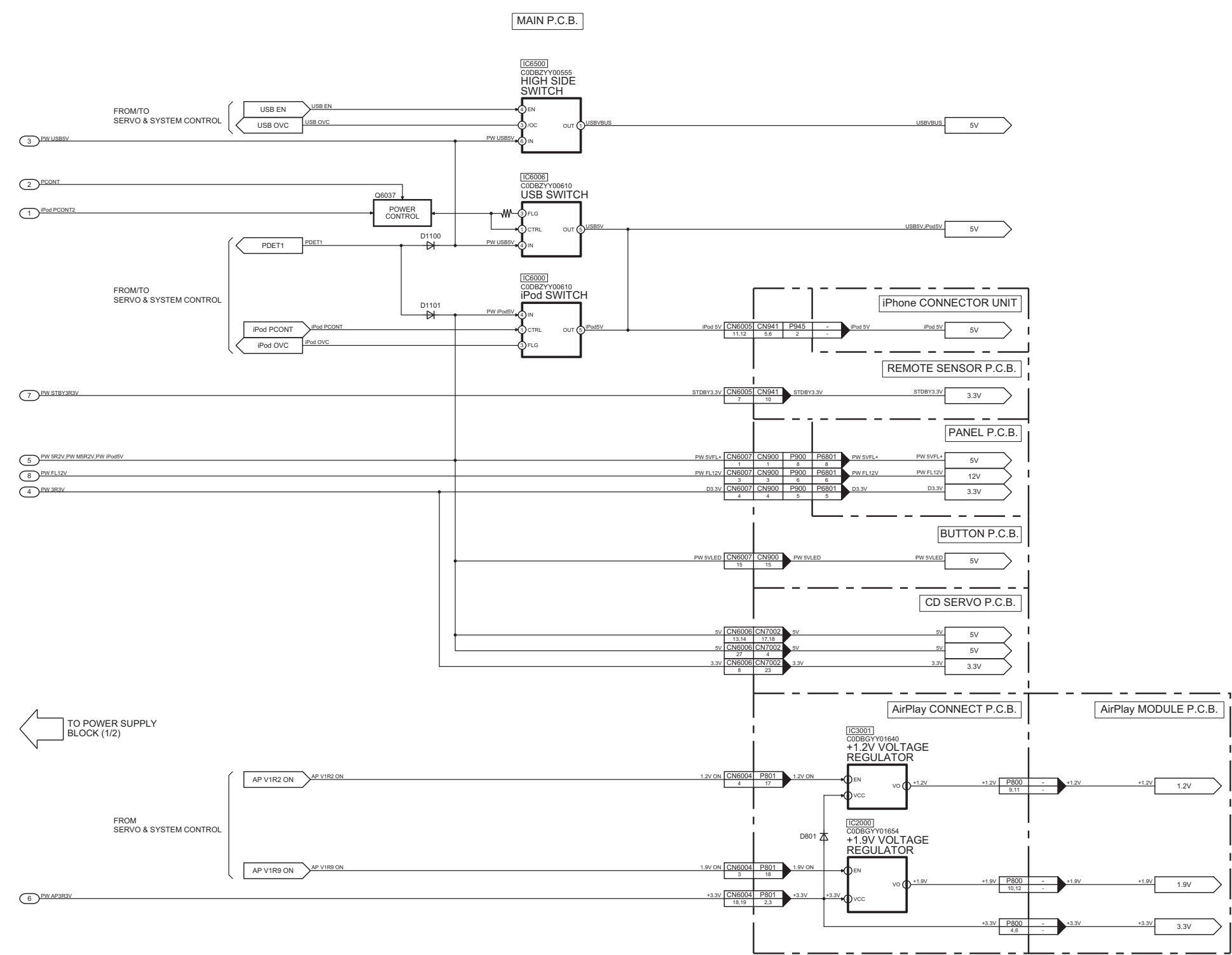
SC-HC58P/PC AUDIO BLOCK DIAGRAM

13.5. POWER SUPPLY (1/2) BLOCK DIAGRAM



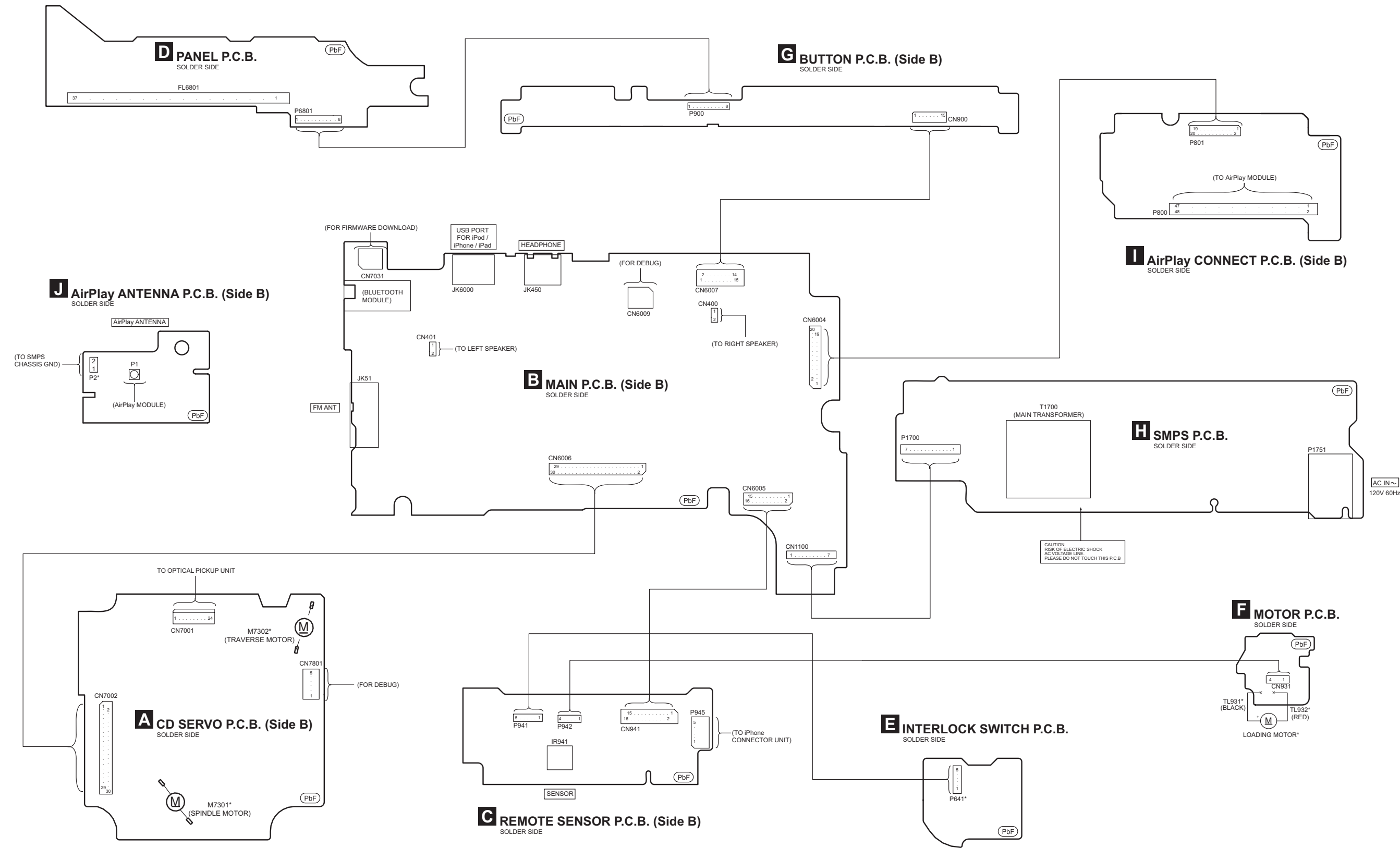
SC-HC58P/PC POWER SUPPLY (1/2) BLOCK DIAGRAM

13.6. POWER SUPPLY (2/2) BLOCK DIAGRAM



SC-HC58P/PC POWER SUPPLY (2/2) BLOCK DIAGRAM

14 Wiring Connection Diagram



Note : “ * ” REF IS FOR INDICATION ONLY.

SC-HC58P/PC
WIRING CONNECTION DIAGRAM

15 Schematic Diagram

15.1. Schematic Diagram Notes

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

Notes:

| | |
|---------------|----------------------------------|
| S641: | ABN switch. |
| S642: | RIGHT switch. |
| S643: | CENTRE switch. |
| S901: | POWER switch (⏻/⏻). |
| S902: | iPod OPEN/CLOSE switch (iPod ▲). |
| S904: | SELECTOR switch. |
| S906: | STOP switch (■). |
| S907: | PLAY/PAUSE switch (▶/⏸). |
| S910: | WPS switch. |
| S911: | REV SKIP switch (◀◀/◀◀). |
| S912: | FWD SKIP switch (▶▶/▶▶). |
| S913: | VOL- switch. |
| S914: | VOL+ switch. |
| S915: | CD OPEN/CLOSE switch(CD ▲). |
| S931: | LEFT switch. |
| S7201: | RESET switch. |

• Important safety notice:

Components identified by ⚠ mark have special characteristics important for safety.

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

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

• In case of AC rated voltage Capacitors, the part no. and values will be indicated in the Schematic Diagram.

AC rated voltage capacitors:

C1702, C1710, C1725, C1727, C1728

• Resistor

Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).

• Capacitor

Unit of capacitance is μF, unless otherwise noted. F=Farads, pF=pico-Farad.






• Coil

Unit of inductance is H, unless otherwise noted.

• *

REF IS FOR INDICATION ONLY.

• Voltage and signal line

| | |
|---|---|
|  | : +B Signal Line |
|  | : -B Signal Line |
|  | : CD Audio Input Signal Line |
|  | : AirPlay/Bluetooth/Tuner Audio Input Signal Line |
|  | : Audio Output Signal Line |
|  | : iPod/iPhone/USB Signal Line |
|  | : FM Signal Line |

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE F1 T2A, 250V FUSE



RISK OF FIRE-REPLACE FUSE AS MARKED.

FUSE CAUTION

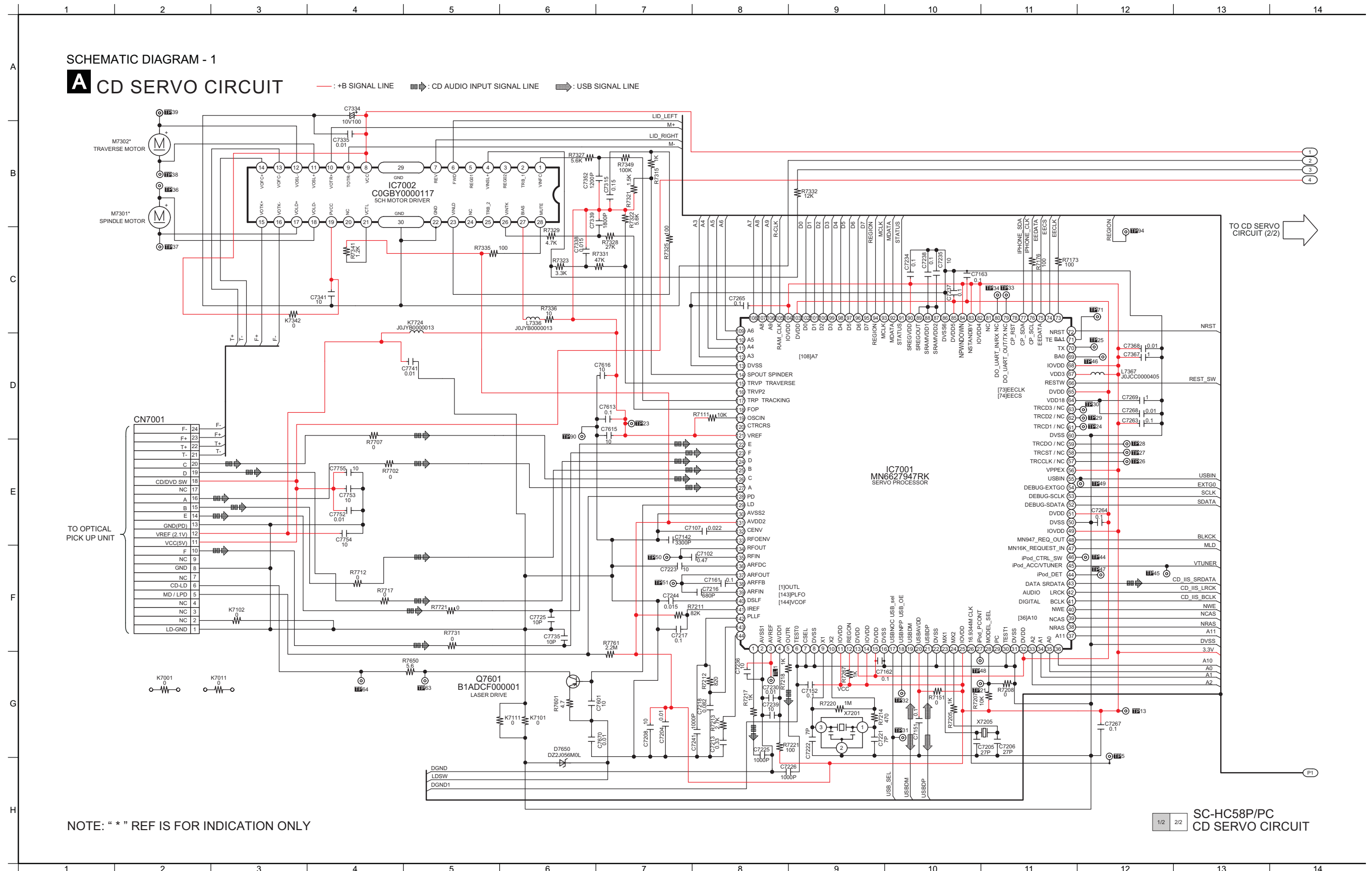


These symbols located near the fuse indicates that the fuse used is a fast operating type. For continued protection against fire hazard, replace with the same type fuse. For fuse rating, refer to the marking adjacent to the symbol.



Ce symbole indique que le fusible utilisé est à rapide. Pour une protection permanente, n' utiliser que des fusibles de même type. Ce dernier est indiqué là où le présent symbole est apposé.

15.2. CD SERVO CIRCUIT (1/2)

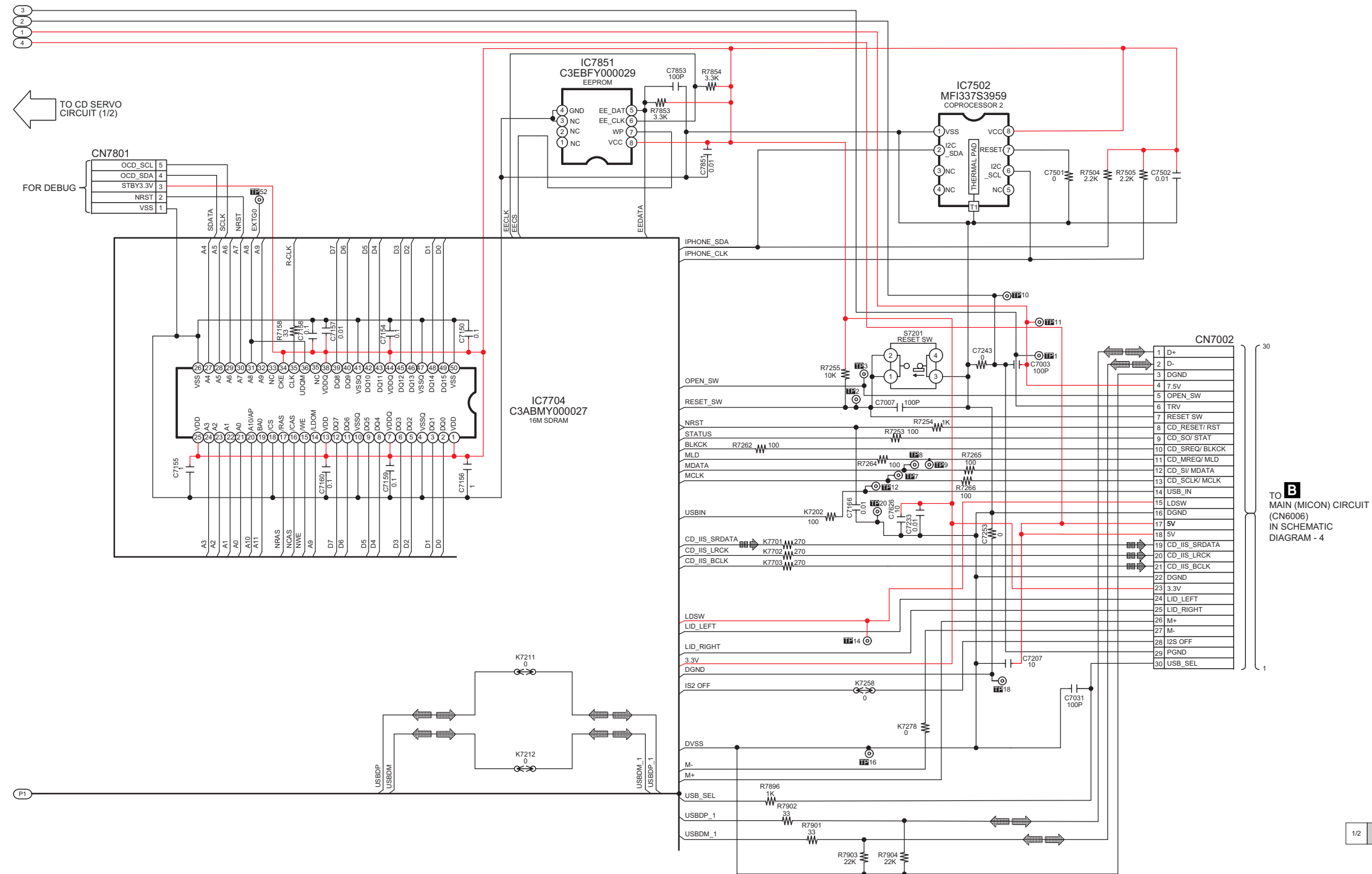


15.3. CD SERVO CIRCUIT (2/2)

SCHEMATIC DIAGRAM - 2

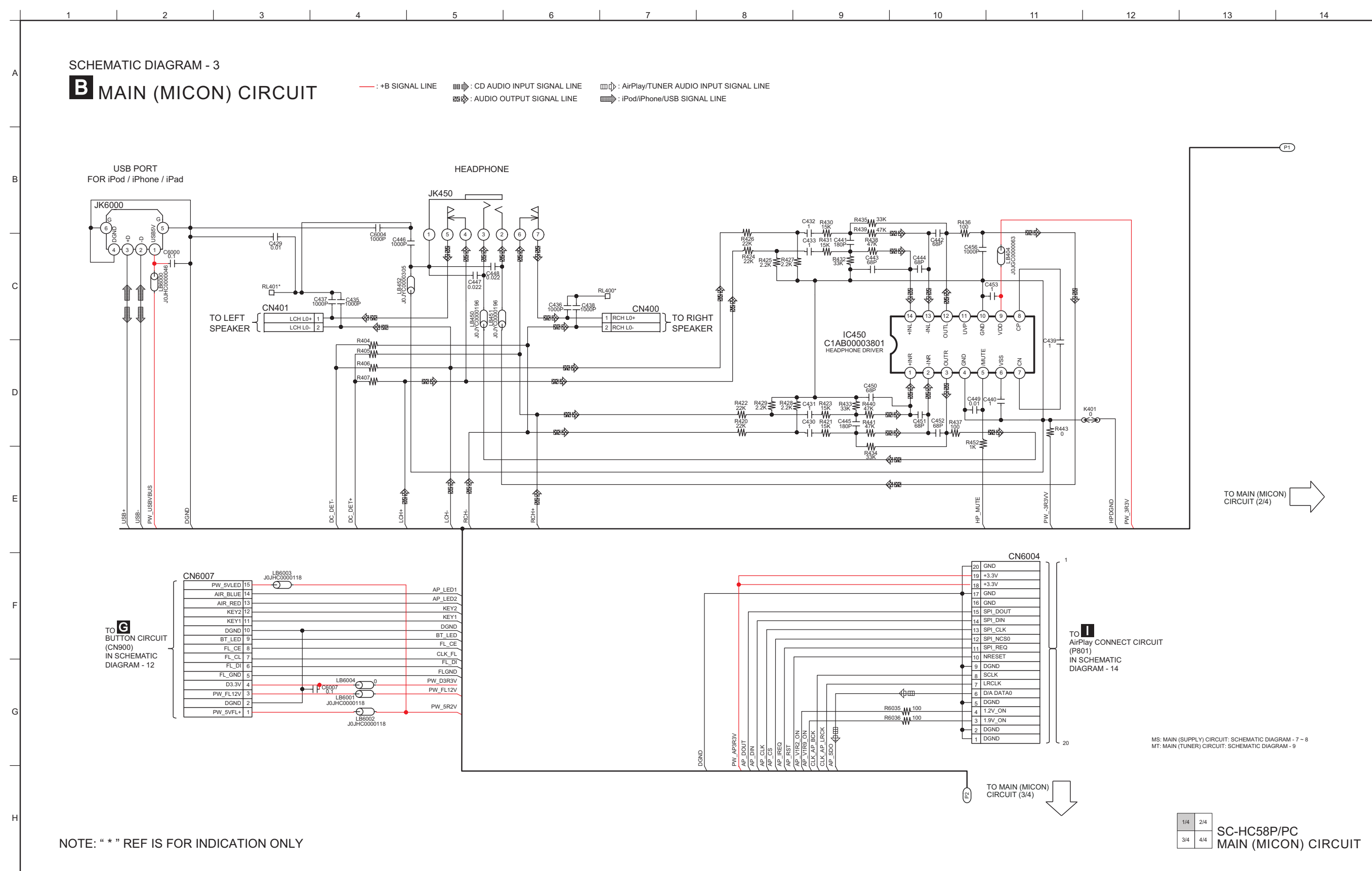
A CD SERVO CIRCUIT

— : +B SIGNAL LINE  : CD AUDIO INPUT SIGNAL LINE  : USB SIGNAL LINE



1/2 2/2 SC-HC58P/PC
CD SERVO CIRCUIT




15.4. MAIN (MICON) CIRCUIT (1/4)

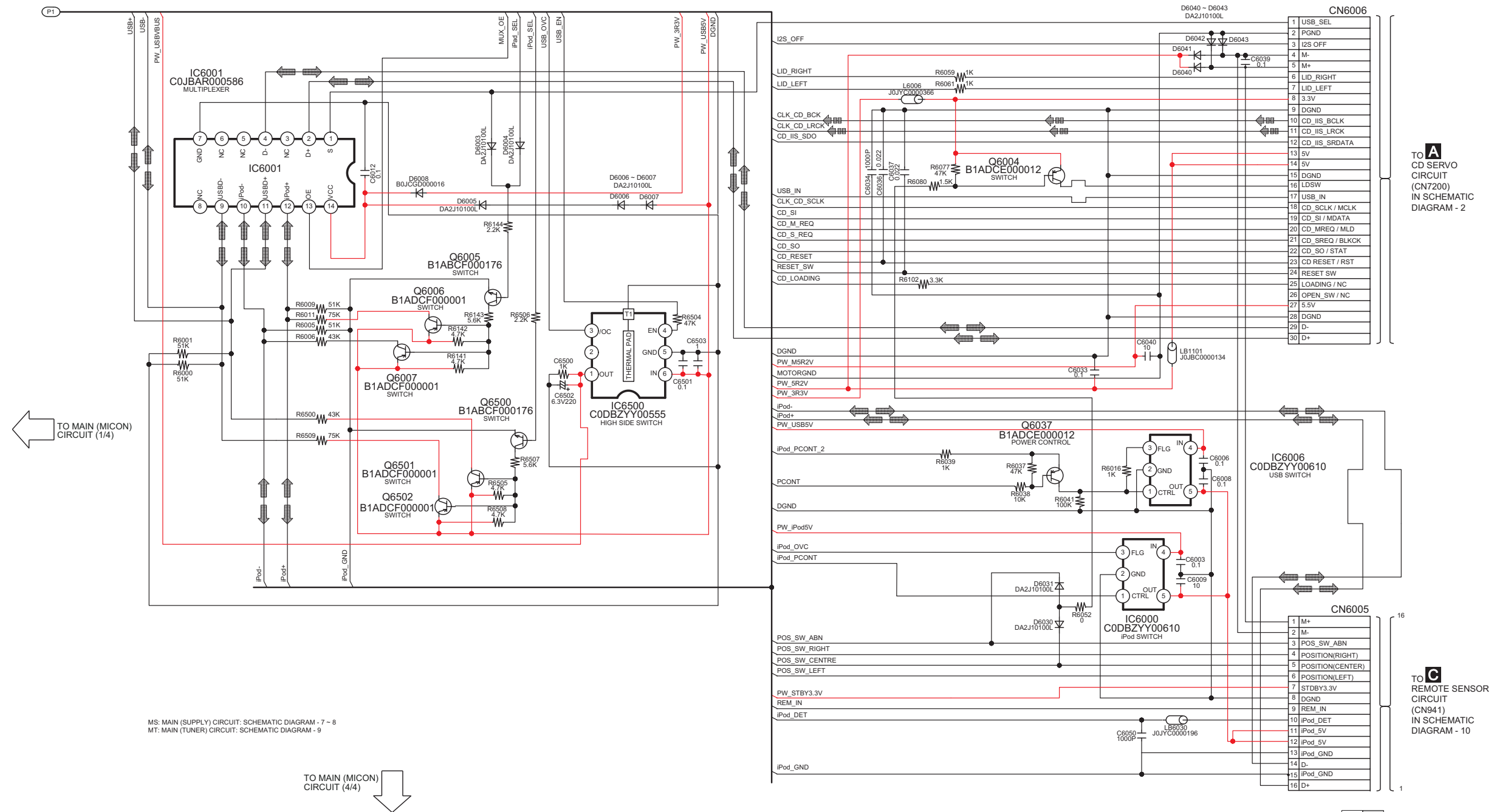


15.5. MAIN (MICON) CIRCUIT (2/4)

SCHEMATIC DIAGRAM - 4

B MAIN (MICON) CIRCUIT

 : +B SIGNAL LINE
 : CD AUDIO INPUT SIGNAL LINE
 : AirPlay/TUNER AUDIO INPUT SIGNAL LINE
  : AUDIO OUTPUT SIGNAL LINE
  : iPod/iPhone/USB SIGNAL LINE



MS: MAIN (SUPPLY) CIRCUIT: SCHEMATIC DIAGRAM - 7 ~ 8
MT: MAIN (TUNER) CIRCUIT: SCHEMATIC DIAGRAM - 9

TO MAIN (MICON)
CIRCUIT (4/4)

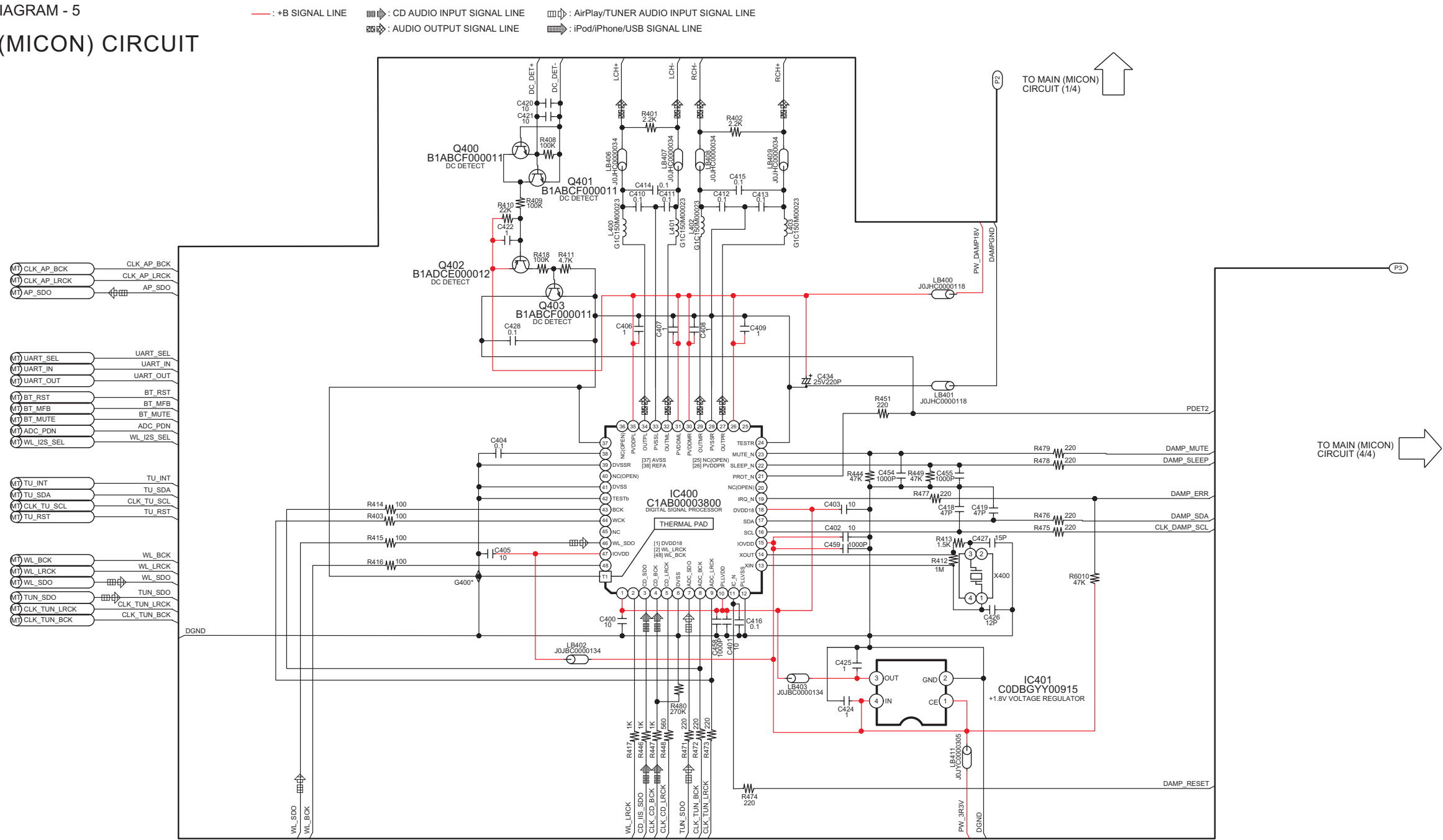
| | |
|-----|-----|
| 1/4 | 2/4 |
| 3/4 | 4/4 |

SC-HC58P/PC
MAIN (MICON) CIRCUIT

15.6. MAIN (MICON) CIRCUIT (3/4)

SCHEMATIC DIAGRAM - 5

B MAIN (MICON) CIRCUIT



NOTE: " * " REF IS FOR INDICATION ONLY

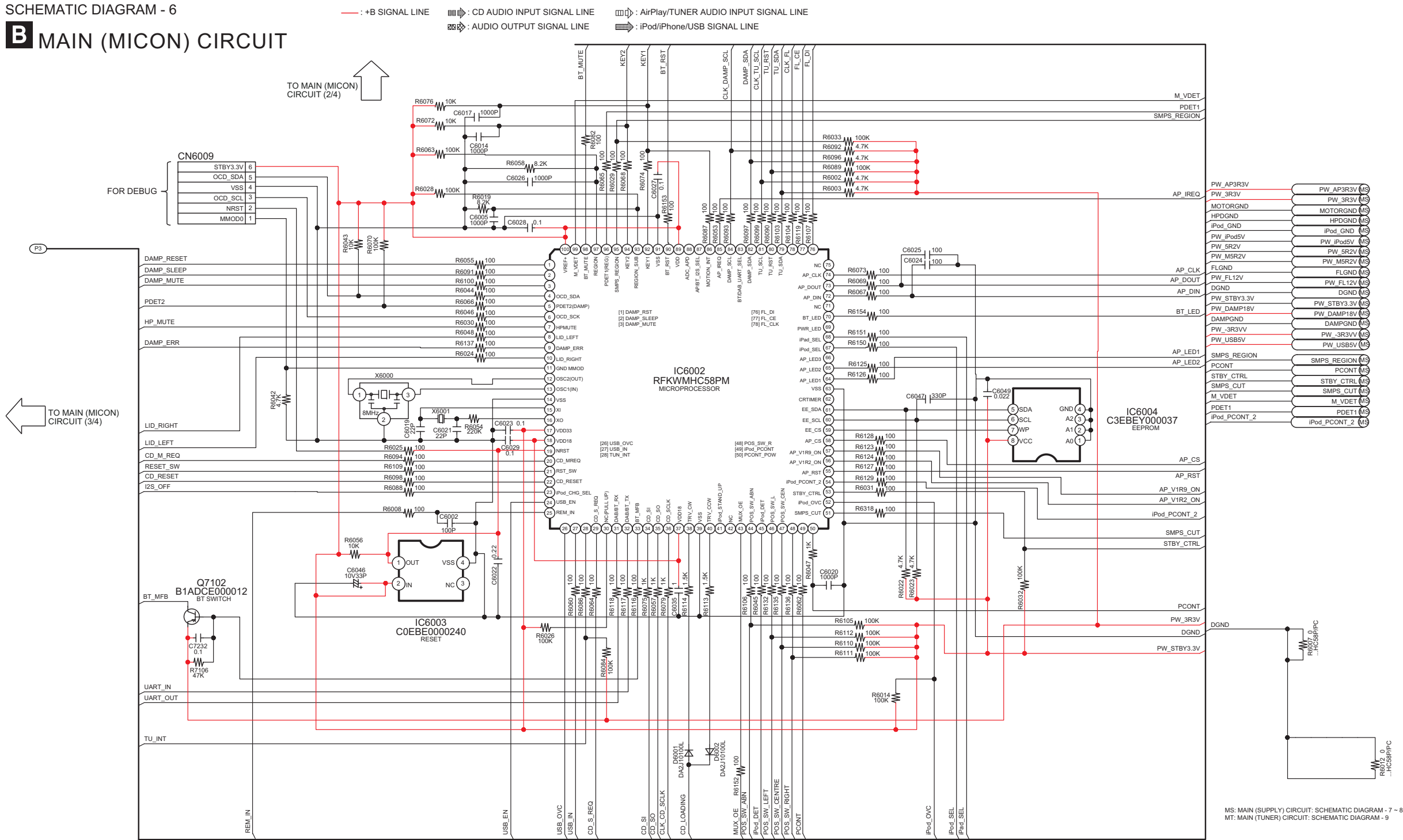
MS: MAIN (SUPPLY) CIRCUIT: SCHEMATIC DIAGRAM - 7 ~ 8
MT: MAIN (TUNER) CIRCUIT: SCHEMATIC DIAGRAM - 9

| | |
|-----|-----|
| 1/4 | 2/4 |
| 3/4 | 4/4 |

SC-HC58P/PC
MAIN (MICON) CIRCUIT

15.7. MAIN (MICON) CIRCUIT (4/4)

SCHEMATIC DIAGRAM - 6
B MAIN (MICON) CIRCUIT



NOTE: “*” REF IS FOR INDICATION ONLY

| | |
|-----|-----|
| 1/4 | 2/4 |
| 3/4 | 4/4 |

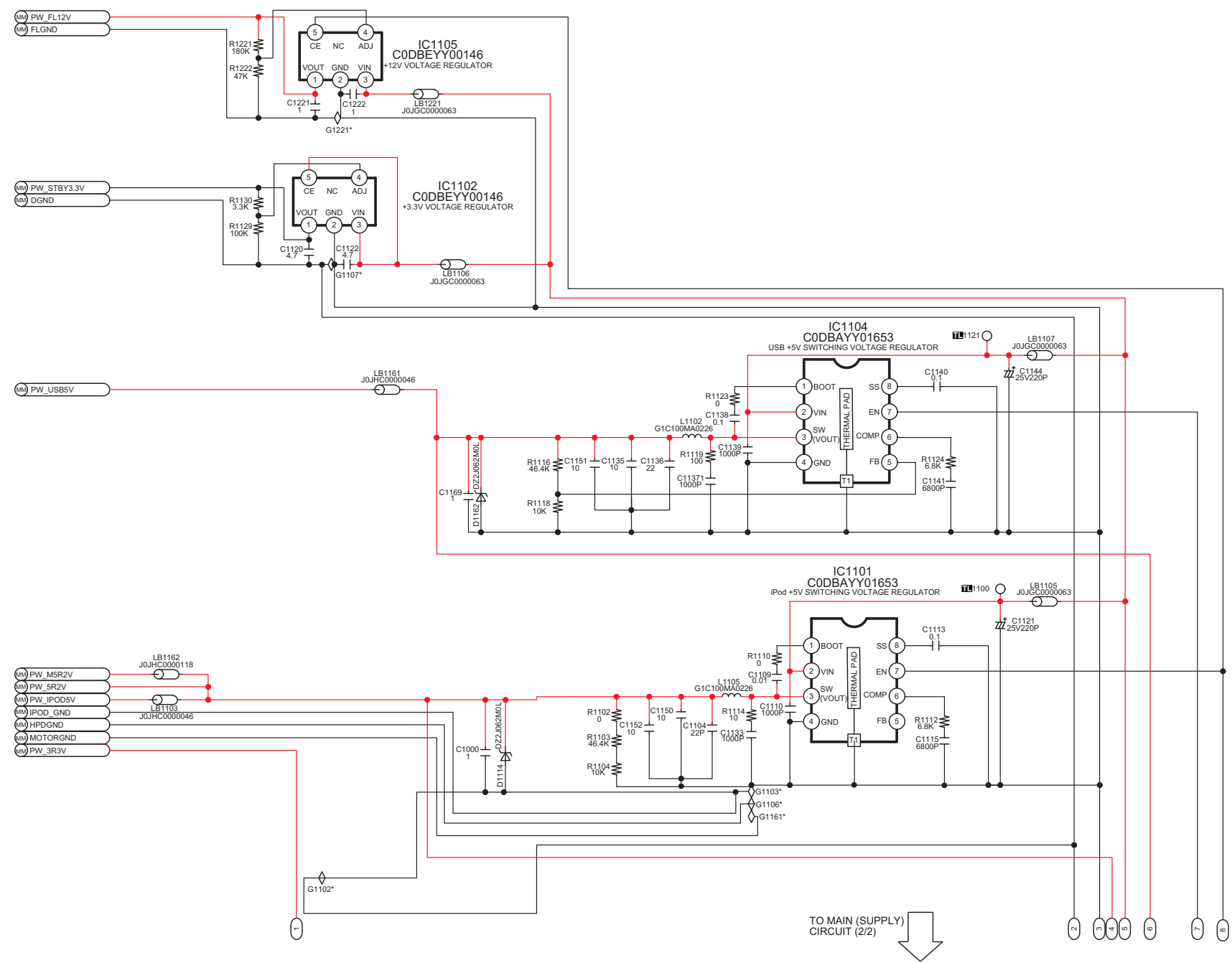
SC-HC58P/PC
MAIN (MICON) CIRCUIT

15.8. MAIN (SUPPLY) CIRCUIT (1/2)

SCHEMATIC DIAGRAM - 7

B MAIN (SUPPLY) CIRCUIT

— : +B SIGNAL LINE



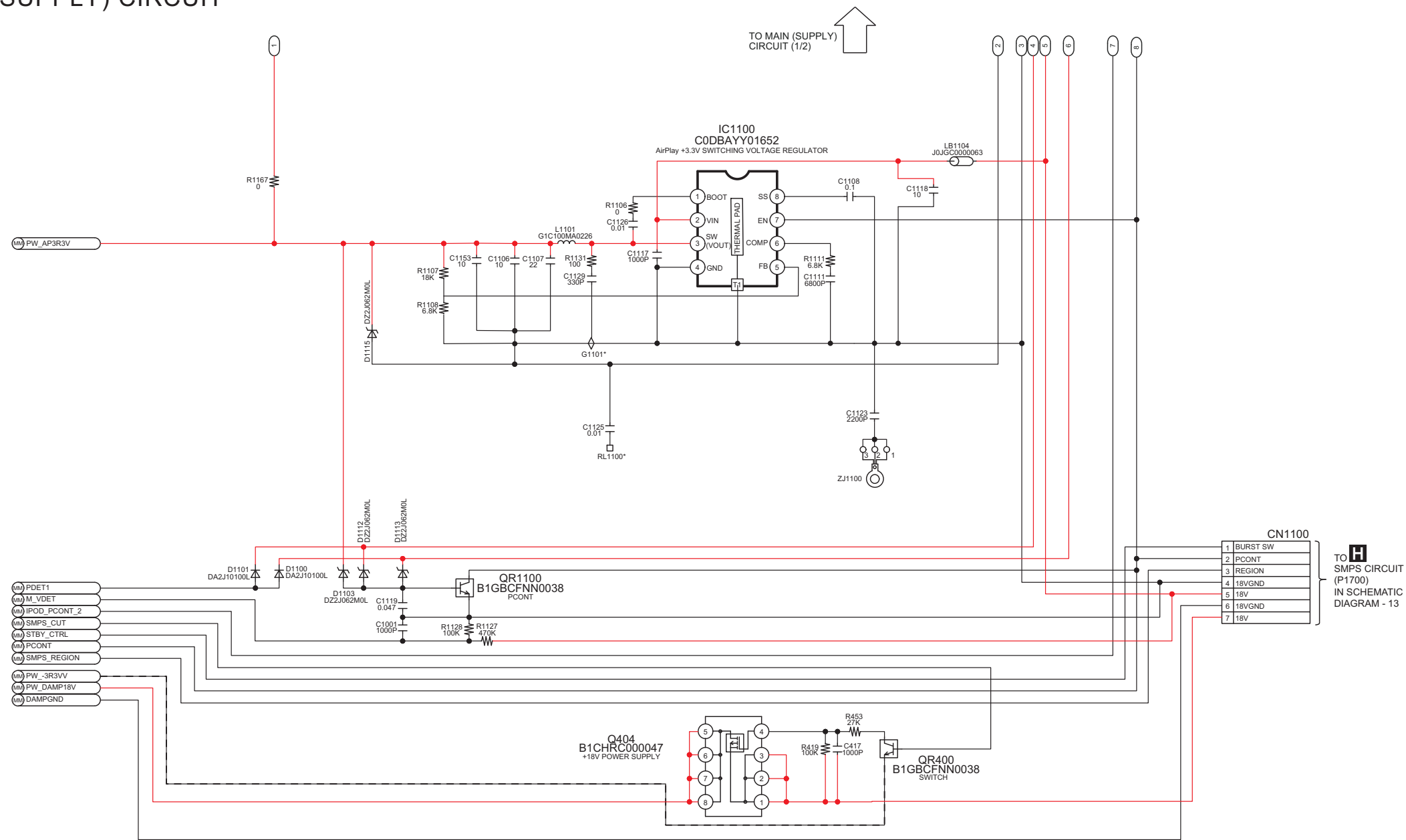
NOTE: " * " REF IS FOR INDICATION ONLY

MM: MAIN (MICON) CIRCUIT: SCHEMATIC DIAGRAM - 3 ~ 6

1/2
2/2
SC-HC58P/PC
MAIN (SUPPLY) CIRCUIT

15.9. MAIN (SUPPLY) CIRCUIT (2/2)

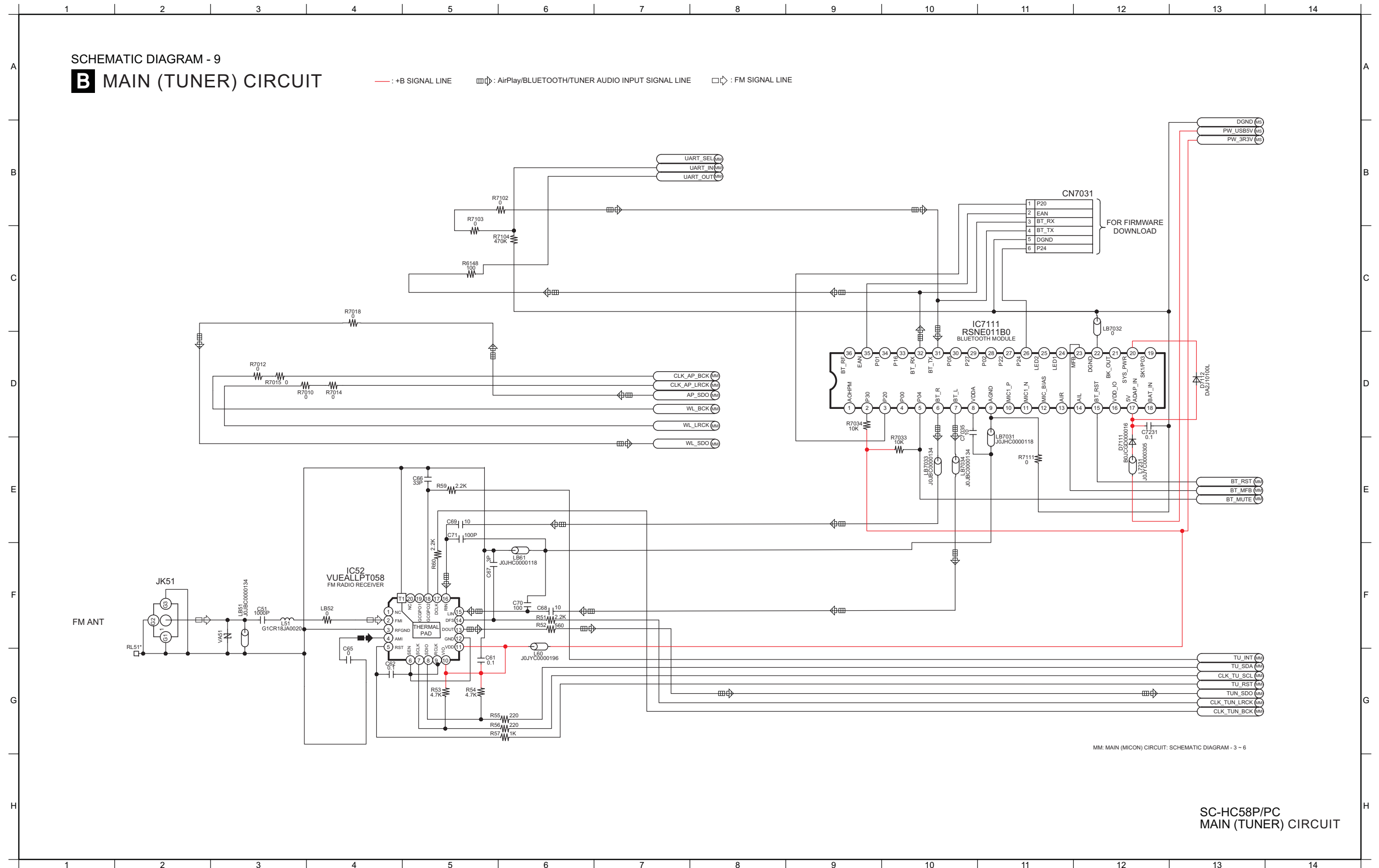
SCHEMATIC DIAGRAM - 8
B MAIN (SUPPLY) CIRCUIT



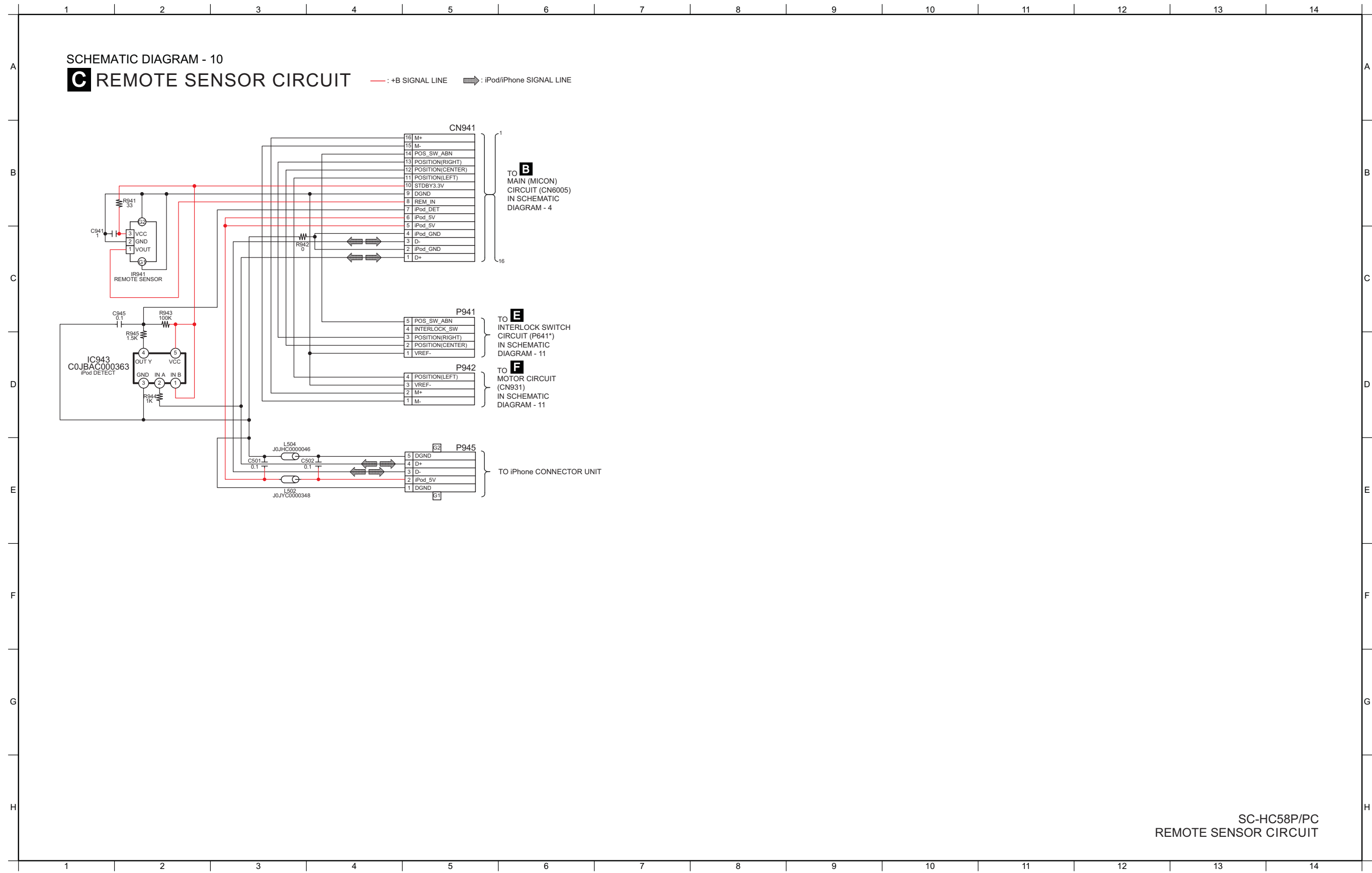
MM: MAIN (MICON) CIRCUIT: SCHEMATIC DIAGRAM - 3 ~ 6

1/2
2/2
SC-HC58P/PC
MAIN (SUPPLY) CIRCUIT

15.10. MAIN (TUNER) CIRCUIT



15.11. REMOTE SENSOR CIRCUIT

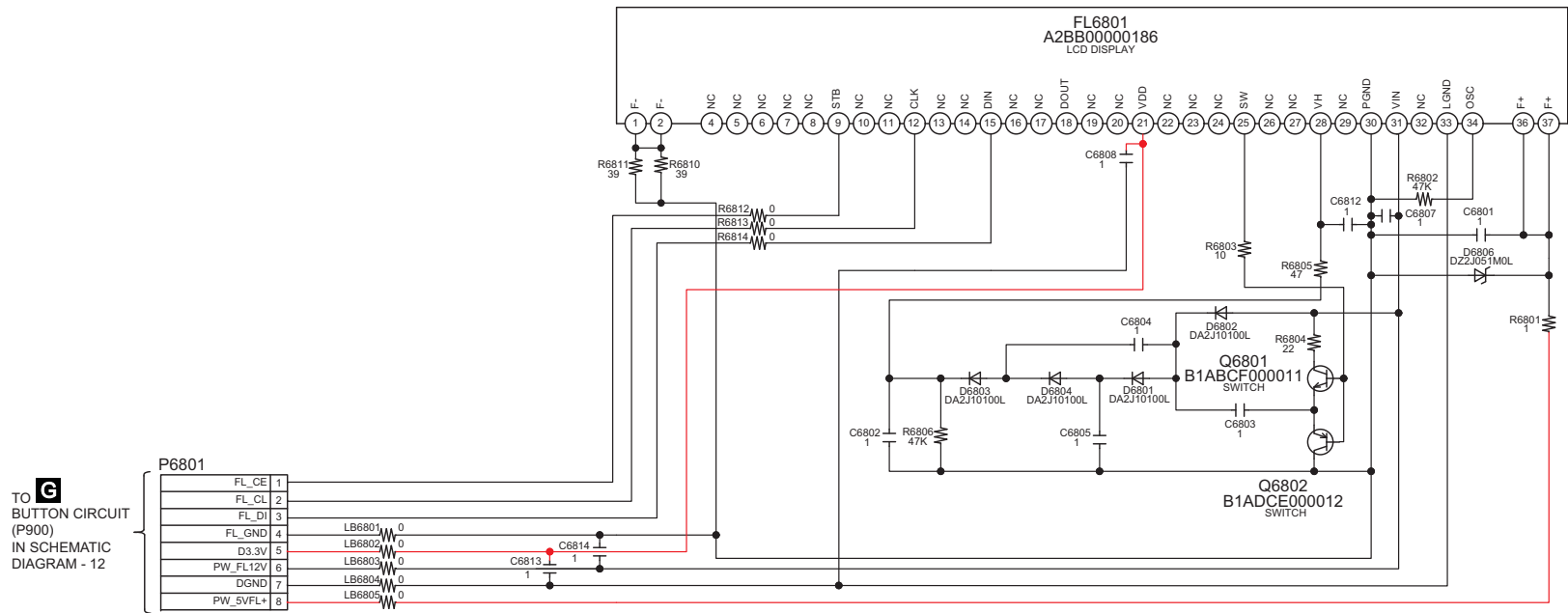


15.12. PANEL, INTERLOCK SWITCH & MOTOR CIRCUIT

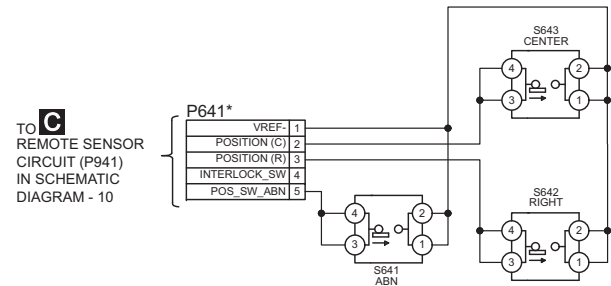
SCHEMATIC DIAGRAM - 11

D PANEL CIRCUIT

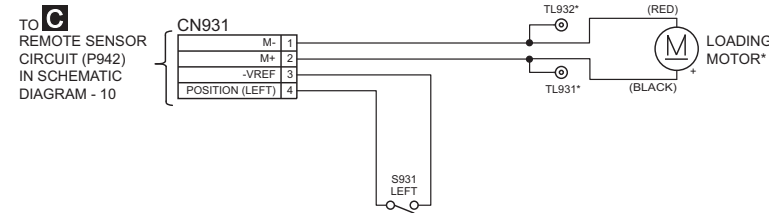
—: +B SIGNAL LINE



E INTERLOCK SWITCH CIRCUIT



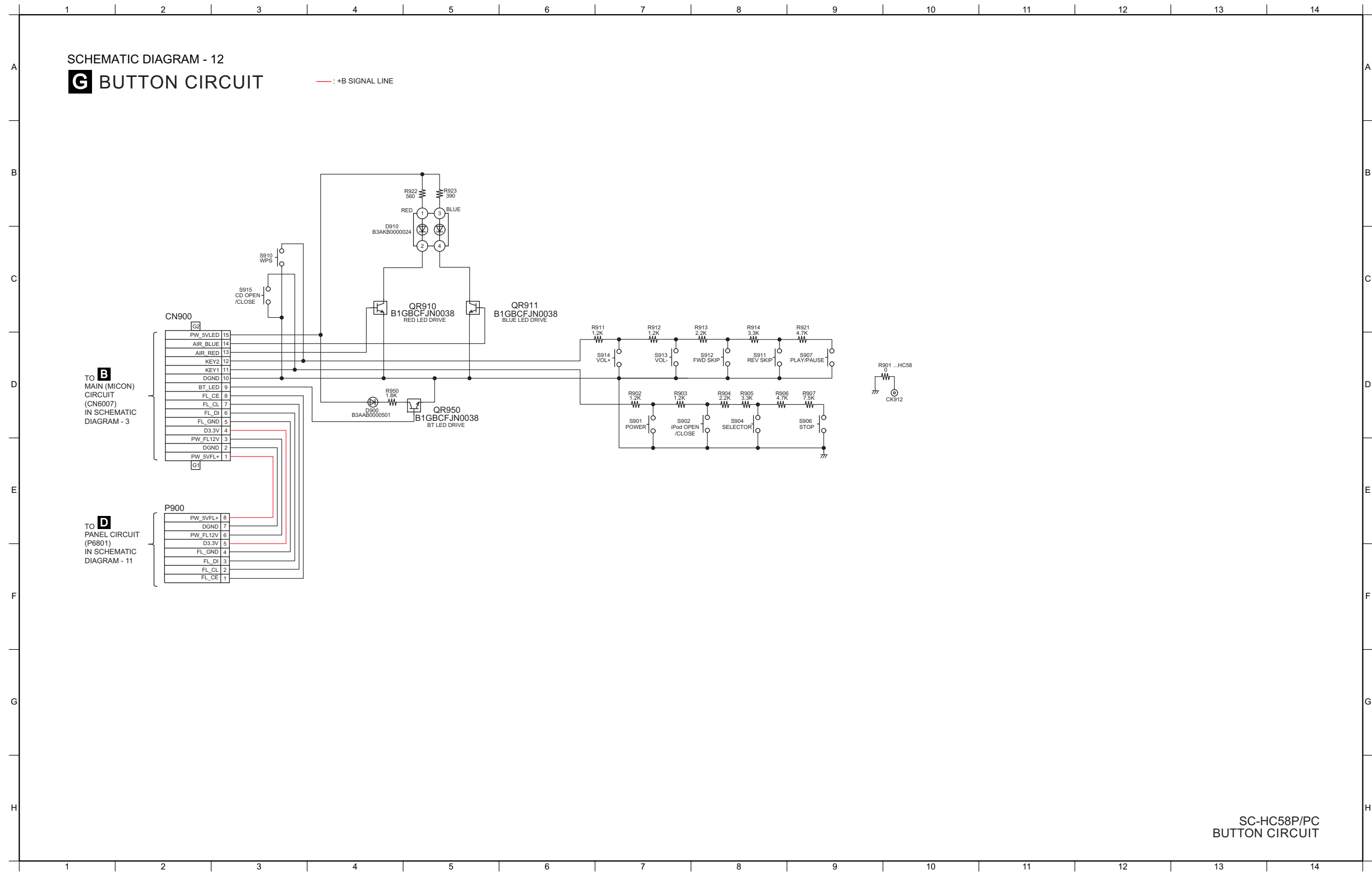
F MOTOR CIRCUIT



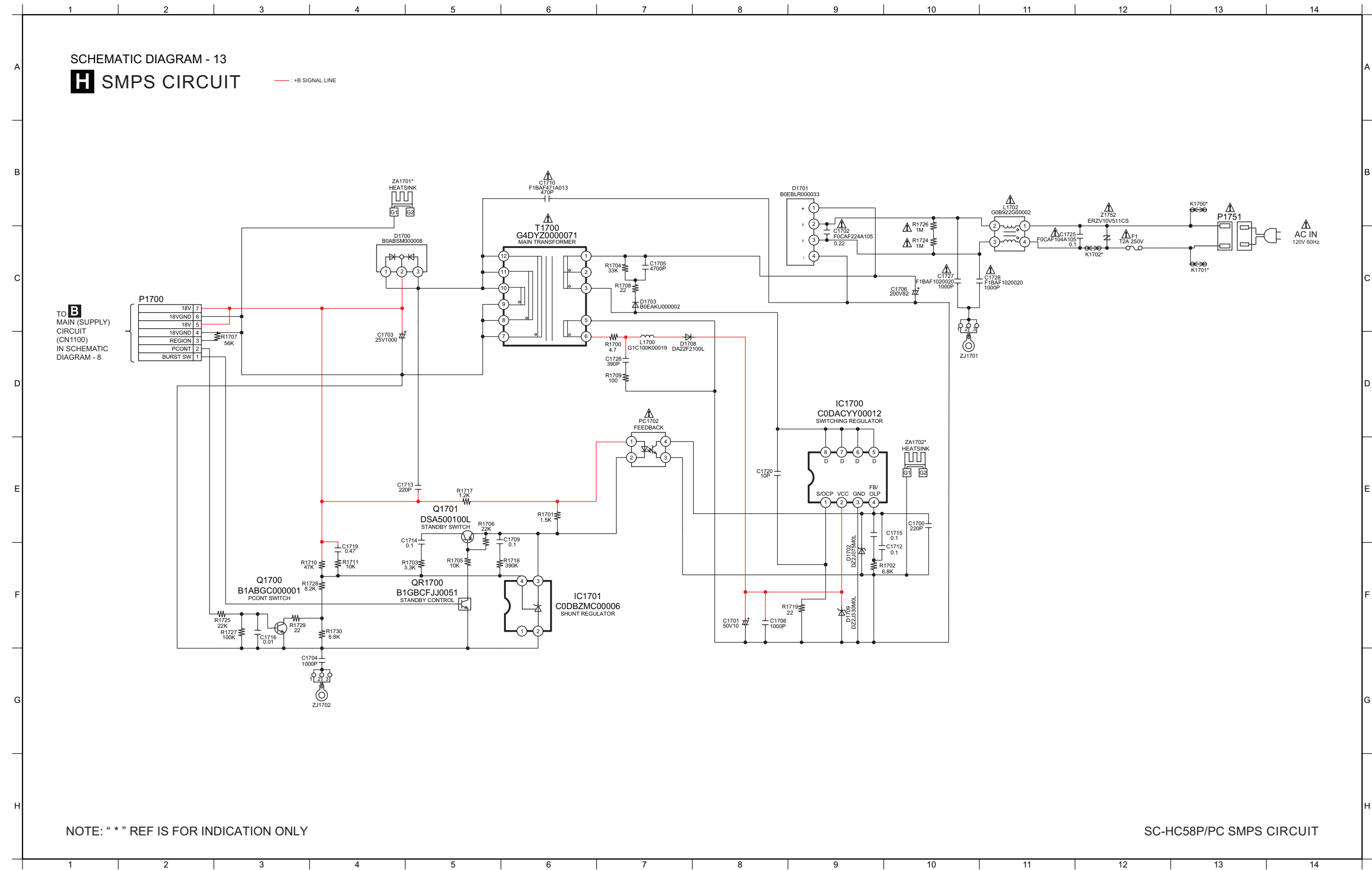
NOTE: " * " REF IS FOR INDICATION ONLY

SC-HC58P/PC
PANEL / INTERLOCK SWITCH / MOTOR CIRCUIT

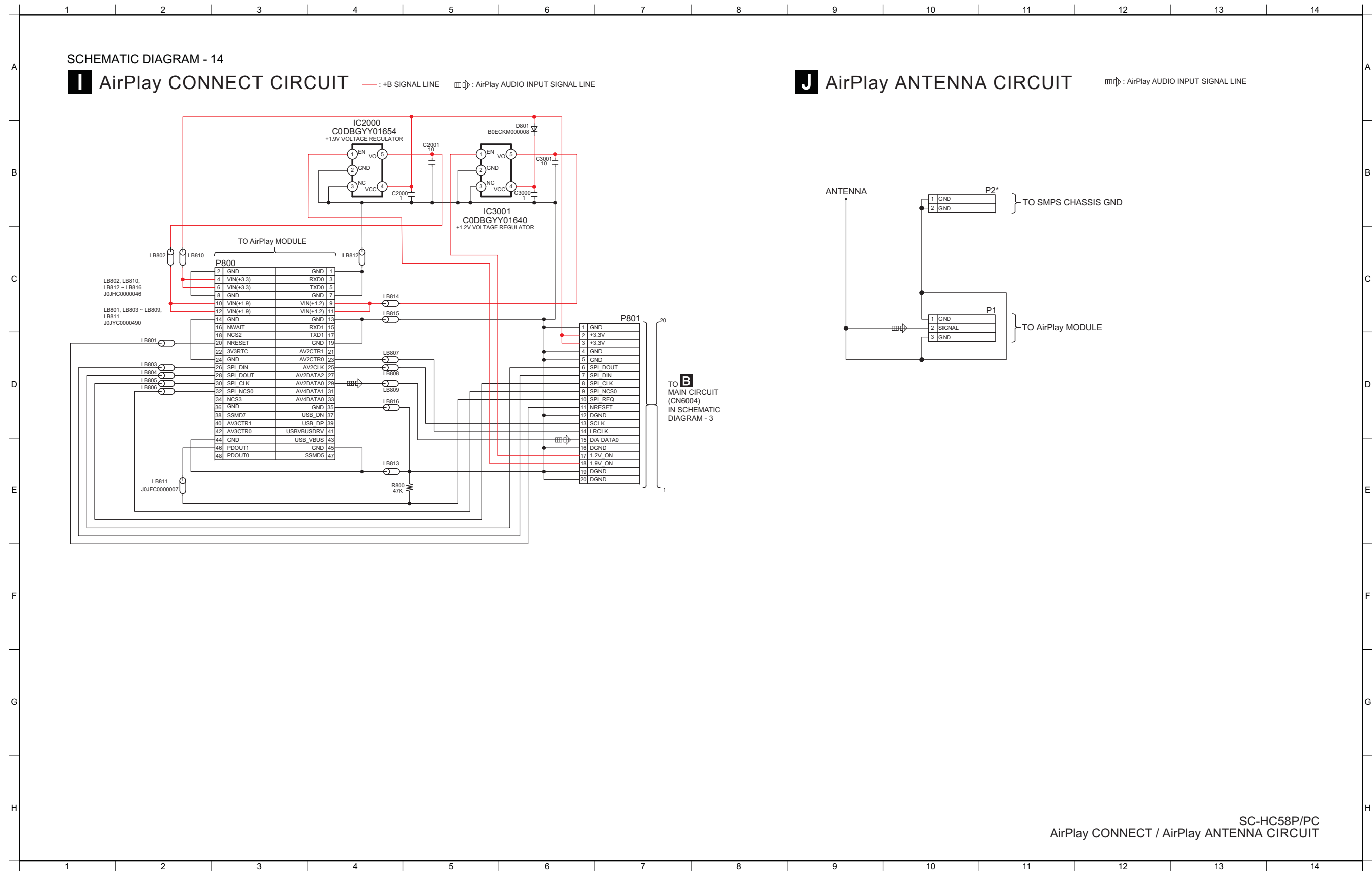
15.13. BUTTON CIRCUIT



15.14. SMPS CIRCUIT



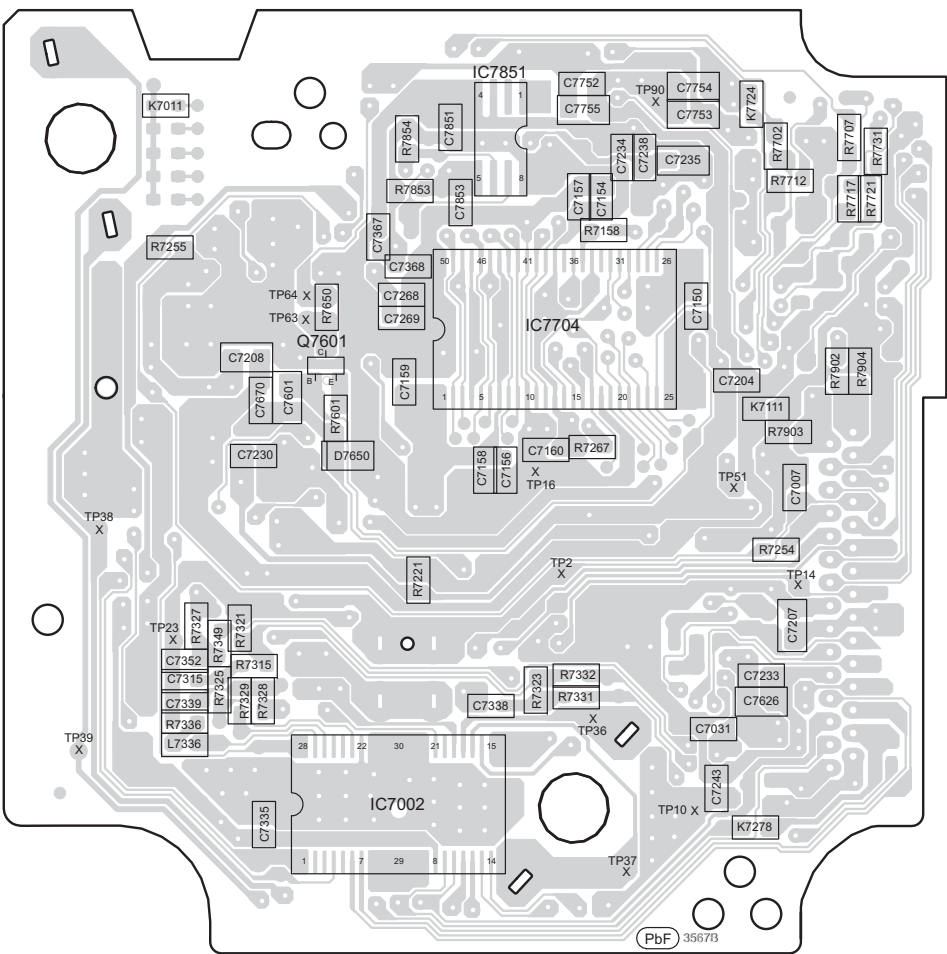
15.15. AirPlay CONNECT & AirPlay ANTENNA CIRCUIT



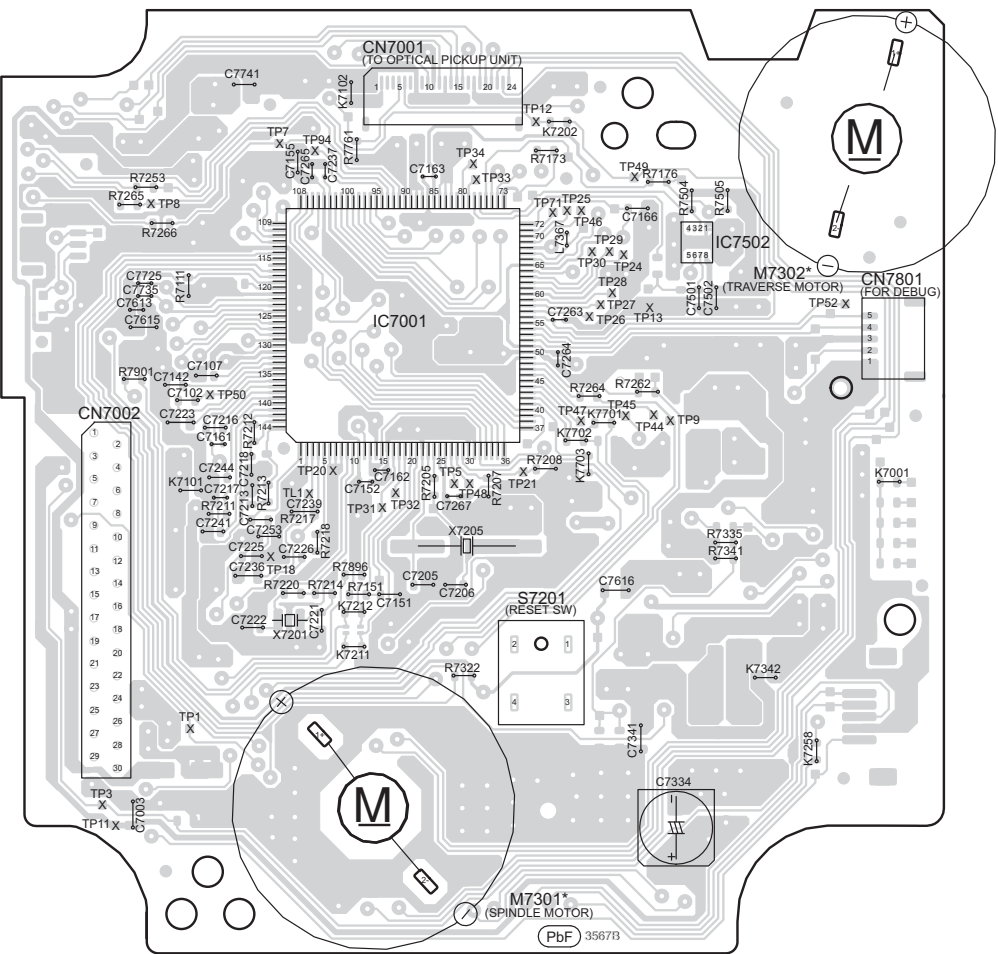
16 Printed Circuit Board

16.1. CD SERVO P.C.B.

A CD SERVO P.C.B. (REP4781E)



(SIDE A)



(SIDE B)

NOTE: " * " REF IS FOR INDICATION ONLY

SC-HC58P/PC
CD SERVO P.C.B.

A vertical number line with tick marks labeled A, B, C, D, E, F, G, and H from bottom to top.

(SIDE A)



13

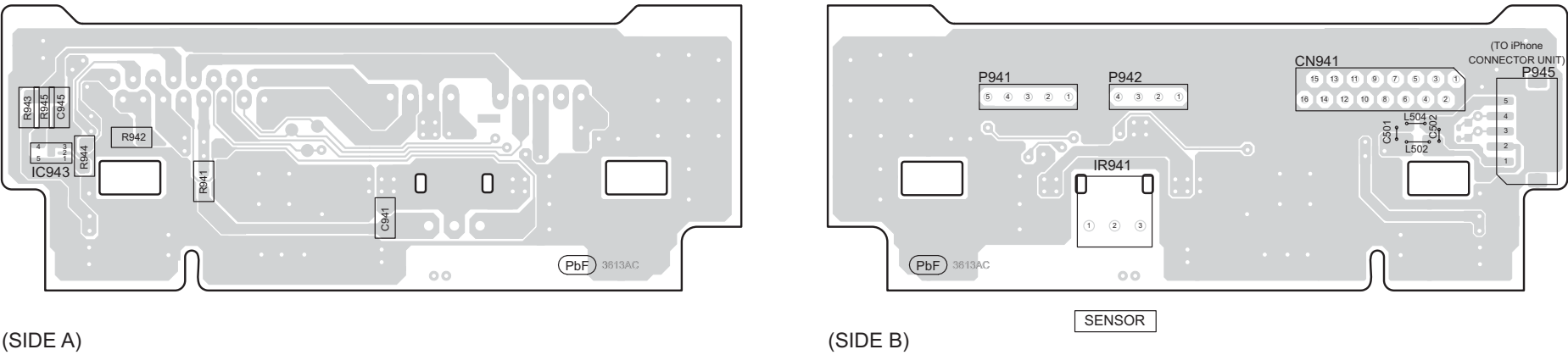
B MAIN P.C.B. (REP4870LA)



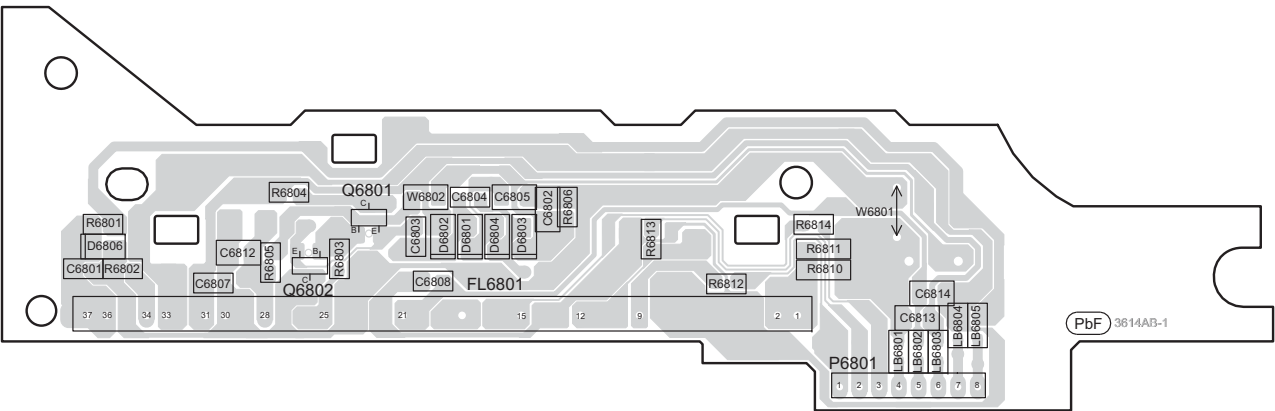
16.4. REMOTE SENSOR, PANEL, INTERLOCK SWITCH & MOTOR P.C.B.

H
G
F
E
D
C
B
A

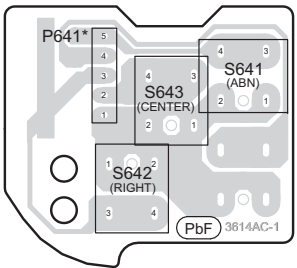
C REMOTE SENSOR P.C.B. (REP4870LC)



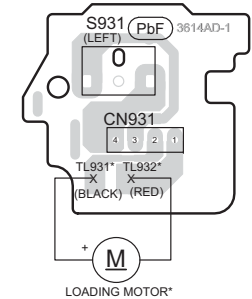
D PANEL P.C.B. (REP4871BB)



E INTERLOCK SWITCH P.C.B. (REP4871BC)



F MOTOR P.C.B. (REP4871BD)

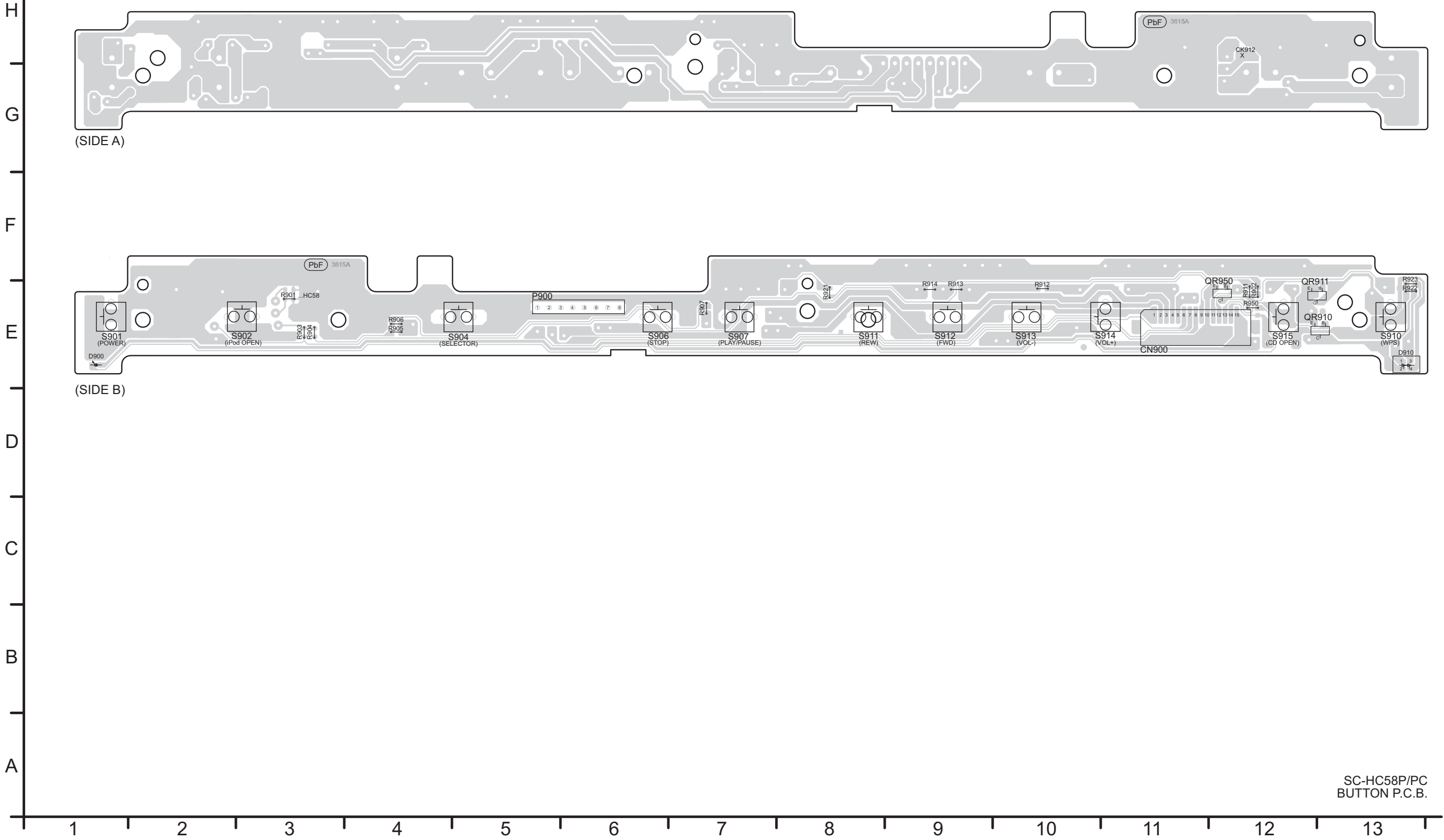


NOTE: " * " REF IS FOR INDICATION ONLY

SC-HC58P/PC
REMOTE SENSOR / PANEL / INTERLOCK SWITCH / MOTOR P.C.B.

16.5. BUTTON P.C.B.

G BUTTON P.C.B. (REP4904B)

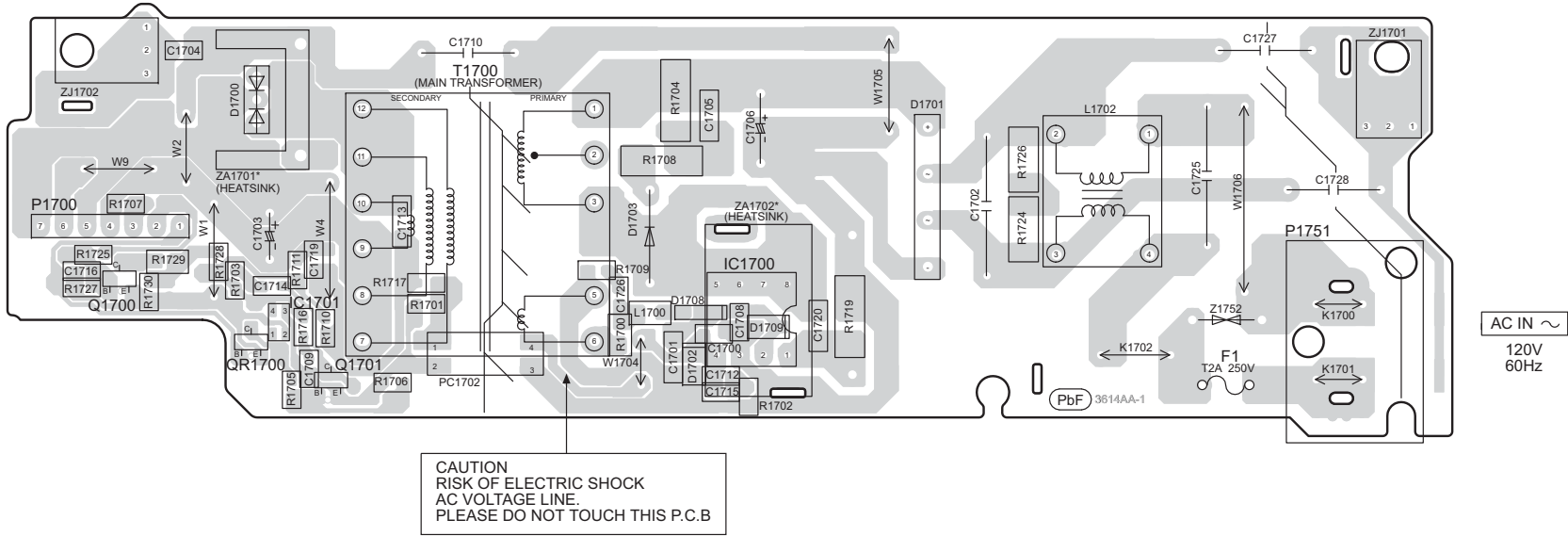


SC-HC58P/PC
BUTTON P.C.B.

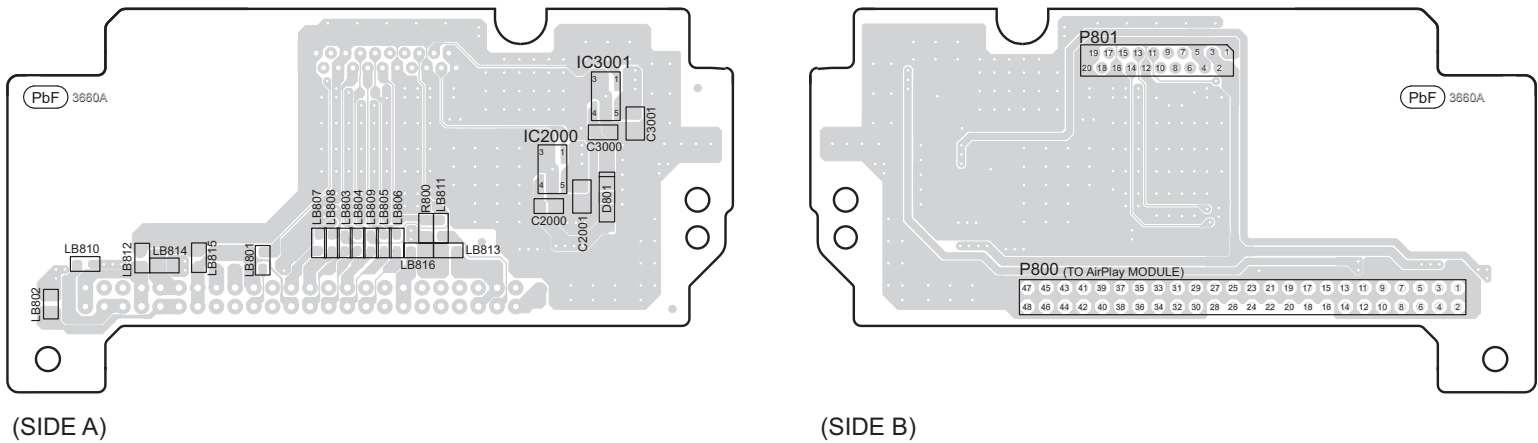
16.6. SMPS, AirPlay CONNECTOR & AirPlay ANTENNA P.C.B.

H
G
F
E
D
C
B
A

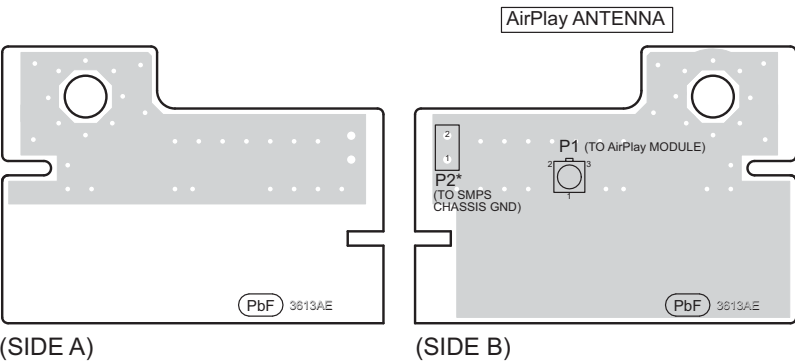
H SMPS P.C.B. (REP4871BA)



I AirPlay CONNECT P.C.B. (REP4911A)



J AirPlay ANTENNA P.C.B. (REP4870LE)



NOTE: " * " REF IS FOR INDICATION ONLY

SC-HC58P/PC
SMPS / AirPlay CONNECT / AirPlay ANTENNA P.C.B.

17.1.2. CD SERVO P.C.B. (2/2)

| | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|-----|----|-----|-----|-----|
| REF NO. | IC7704 | | | | | | | | | | | | | | | | | | | |
| MODE | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| CD PLAY | 0 | 1.7 | 1.8 | 1.6 | 3.3 | 0 | 1.6 | 1.6 | 1.7 | 1.7 | 1.8 | 1.7 | 0 | 3.3 | 0 | 3.2 | 0 | 3.2 | 1.3 | 1.4 |
| | | | | | | | | | | | | | | | | | | | | |
| REF NO. | IC7704 | | | | | | | | | | | | | | | | | | | |
| MODE | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | | | | | | | | | | |
| CD PLAY | 0 | 1.3 | 1.3 | 3.3 | 1.3 | 1.3 | 0 | 1.3 | 1.3 | 0 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| REF NO. | IC7851 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | | | | | | | |
| CD PLAY | 0 | 0 | 0 | 0 | 3.2 | 3.2 | 0 | 3.2 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| REF NO. | Q7601 | | | | | | | | | | | | | | | | | | | |
| MODE | E | C | B | | | | | | | | | | | | | | | | | |
| CD PLAY | 3.0 | 2.0 | 2.3 | | | | | | | | | | | | | | | | | |
| SC-HC58P/PC CD SERVO P.C.B. | | | | | | | | | | | | | | | | | | | | |

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

| REF NO. | IC52 | | | | | | | | | | | | | | | | | | | |
|---------|--------|------|------|-----|------|------|-----|-----|-----|------|------|-----|-----|-----|------|-----|-----|-----|-----|----|
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| TUNER | 0 | 1.5 | 0 | 0.8 | 3.3 | 3.3 | 0 | 3.3 | 3.3 | 3.3 | 3.3 | 0 | 1.4 | 3.3 | 0 | 0 | 3.3 | 0 | 0 | 0 |
| REF NO. | IC400 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| CD PLAY | 1.6 | 0 | 1.4 | 1.4 | 1.2 | 0 | 3.3 | 3.3 | 3.3 | 1.6 | 0 | 0 | 1.6 | 1.6 | 3.2 | 3.2 | 3.2 | 1.6 | 1.5 | 0 |
| STANDBY | 1.6 | 0 | 1.4 | 1.4 | 1.2 | 0 | 3.3 | 3.3 | 3.3 | 1.6 | 0 | 0 | 1.6 | 1.6 | 3.2 | 3.2 | 3.2 | 1.6 | 1.5 | 0 |
| REF NO. | IC400 | | | | | | | | | | | | | | | | | | | |
| MODE | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| CD PLAY | 3.2 | 3.2 | 3.2 | 0 | 0 | 16.8 | 3.2 | 0 | 3.1 | 16.8 | 16.8 | 3.3 | 0 | 3.3 | 16.7 | 0 | 0 | 3.3 | 0 | 0 |
| STANDBY | 3.2 | 3.2 | 3.2 | 0 | 0 | 16.8 | 3.2 | 0 | 3.1 | 16.8 | 16.8 | 3.3 | 0 | 3.3 | 16.7 | 0 | 0 | 3.3 | 0 | 0 |
| REF NO. | IC400 | | | | | | | | | | | | | | | | | | | |
| MODE | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | | | | | | | | | | | | |
| CD PLAY | 0 | 0 | 3.3 | 1.5 | 0 | 0 | 3.3 | 1.5 | | | | | | | | | | | | |
| STANDBY | 0 | 0 | 3.3 | 1.5 | 0 | 0 | 3.3 | 1.5 | | | | | | | | | | | | |
| REF NO. | IC401 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | |
| CD PLAY | 3.3 | 0 | 1.6 | 3.3 | | | | | | | | | | | | | | | | |
| STANDBY | 3.3 | 0 | 1.6 | 3.3 | | | | | | | | | | | | | | | | |
| REF NO. | IC450 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | | | | | | |
| CD PLAY | 3.1 | 3.1 | 3.3 | 0 | 3.1 | 0 | 1.6 | 3.2 | 3.3 | 0 | 0 | 3.3 | 3.1 | 3.1 | | | | | | |
| STANDBY | 3.1 | 3.1 | 3.3 | 0 | 3.1 | 0 | 1.6 | 3.2 | 3.3 | 0 | 0 | 3.3 | 3.1 | 3.1 | | | | | | |
| REF NO. | IC1100 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | | | | | | | |
| CD PLAY | 0 | 18.0 | 3.3 | 0 | 3.3 | 0 | 0 | 0 | | | | | | | | | | | | |
| STANDBY | 0 | 18.0 | 3.3 | 0 | 3.3 | 0 | 0 | 0 | | | | | | | | | | | | |
| REF NO. | IC1101 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | | | | | | | |
| CD PLAY | 0 | 18.0 | 5.0 | 0 | 3.3 | 0 | 0 | 0 | | | | | | | | | | | | |
| STANDBY | 0 | 18.0 | 5.0 | 0 | 3.3 | 0 | 0 | 0 | | | | | | | | | | | | |
| REF NO. | IC1102 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | |
| CD PLAY | 3.3 | 0 | 18.0 | 3.3 | 18.0 | | | | | | | | | | | | | | | |
| STANDBY | 3.3 | 0 | 18.0 | 3.3 | 18.0 | | | | | | | | | | | | | | | |
| REF NO. | IC1104 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | | | | | | | |
| CD PLAY | 0 | 18.0 | 5.0 | 0 | 3.3 | 0 | 0 | 0 | | | | | | | | | | | | |
| STANDBY | 0 | 18.0 | 5.0 | 0 | 3.3 | 0 | 0 | 0 | | | | | | | | | | | | |

SC-HC58P/PC MAIN P.C.B.

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

| | | | | | | | | | | | | | | | | | | | | |
|---------|--------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| REF NO. | IC1105 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | |
| CD PLAY | 12.0 | 0 | 18.0 | 3.3 | 0 | | | | | | | | | | | | | | | |
| STANDBY | 12.0 | 0 | 18.0 | 3.3 | 0 | | | | | | | | | | | | | | | |
| REF NO. | IC6000 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | |
| CD PLAY | 0.2 | 0 | 3.3 | 5.0 | 4.8 | | | | | | | | | | | | | | | |
| STANDBY | 0.2 | 0 | 3.3 | 5.0 | 4.8 | | | | | | | | | | | | | | | |
| REF NO. | IC6001 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | | | | | | |
| CD PLAY | 0 | 5.0 | 0 | 5.0 | 0 | 0 | 0 | 0 | 3.3 | 3.3 | 3.3 | 3.3 | 0 | 3.3 | | | | | | |
| STANDBY | 0 | 5.0 | 0 | 5.0 | 0 | 0 | 0 | 0 | 3.3 | 3.3 | 3.3 | 3.3 | 0 | 3.3 | | | | | | |
| REF NO. | IC6002 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| CD PLAY | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 0 | 3.3 | 0 | 3.3 | 0 | 0 | 1.3 | 1.6 | 0 | 1.7 | 1.7 | 3.3 | 1.8 | 3.3 | 3.3 |
| STANDBY | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 0 | 3.3 | 0 | 3.3 | 0 | 0 | 1.3 | 1.6 | 0 | 1.7 | 1.7 | 3.3 | 1.8 | 3.3 | 3.3 |
| REF NO. | IC6002 | | | | | | | | | | | | | | | | | | | |
| MODE | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| CD PLAY | 3.3 | 3.3 | 0 | 0 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 0 | 3.3 | 1.3 | 0 | 3.3 | 3.3 | 3.3 | 1.8 | 1.8 | 0 | 0 |
| STANDBY | 3.3 | 3.3 | 0 | 0 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 0 | 3.3 | 1.3 | 0 | 3.3 | 3.3 | 3.3 | 1.8 | 1.8 | 0 | 0 |
| REF NO. | IC6002 | | | | | | | | | | | | | | | | | | | |
| MODE | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| CD PLAY | 0 | 0 | 3.3 | 0 | 3.2 | 0 | 0 | 0 | 0 | 3.3 | 3.3 | 0 | 0 | 0 | 3.3 | 0 | 0 | 0 | 1.8 | 3.3 |
| STANDBY | 0 | 0 | 3.3 | 0 | 3.2 | 0 | 0 | 0 | 0 | 3.3 | 3.3 | 0 | 0 | 0 | 3.3 | 0 | 0 | 0 | 1.8 | 3.3 |
| REF NO. | IC6002 | | | | | | | | | | | | | | | | | | | |
| MODE | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| CD PLAY | 3.3 | 0 | 0 | 1.8 | 1.9 | 0 | 3.3 | 3.3 | 0 | 1.8 | 0 | 3.3 | 3.3 | 3.3 | 0 | 0 | 1.2 | 0 | 3.3 | 3.3 |
| STANDBY | 3.3 | 0 | 0 | 1.8 | 1.9 | 0 | 3.3 | 3.3 | 0 | 1.8 | 0 | 3.3 | 3.3 | 3.3 | 0 | 0 | 1.2 | 0 | 3.3 | 3.3 |
| REF NO. | IC6002 | | | | | | | | | | | | | | | | | | | |
| MODE | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| CD PLAY | 3.1 | 3.2 | 0 | 0 | 0 | 3.1 | 0 | 0 | 3.3 | 0 | 0 | 3.3 | 0 | 3.3 | 3.3 | 0 | 3.3 | 0.8 | 3.0 | 3.3 |
| STANDBY | 3.1 | 3.2 | 0 | 0 | 0 | 3.1 | 0 | 0 | 3.3 | 0 | 0 | 3.3 | 0 | 3.3 | 3.3 | 0 | 3.3 | 0.8 | 3.0 | 3.3 |
| REF NO. | IC6003 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | |
| CD PLAY | 3.3 | 3.3 | 0 | 0 | | | | | | | | | | | | | | | | |
| STANDBY | 3.3 | 3.3 | 0 | 0 | | | | | | | | | | | | | | | | |
| REF NO. | IC6004 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | | | | | | | |
| CD PLAY | 0 | 0 | 0 | 0 | 3.3 | 3.3 | 1.8 | 3.3 | | | | | | | | | | | | |
| STANDBY | 0 | 0 | 0 | 0 | 3.3 | 3.3 | 1.8 | 3.3 | | | | | | | | | | | | |

SC-HC58P/PC MAIN P.C.B.

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

| REF NO. | IC6006 | | | | | | | | | | | | | | | | | | |
|---------|--------|---|---|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| MODE | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | |
| CD PLAY | 0 | 0 | 0 | 5.0 | 5.0 | | | | | | | | | | | | | | |
| STANDBY | 0 | 0 | 0 | 5.0 | 5.0 | | | | | | | | | | | | | | |

| REF NO. | IC6500 | | | | | | | | | | | | | | | | | | |
|---------|--------|---|---|-----|---|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | | | | | | | | | | | | | |
| CD PLAY | 5.0 | 0 | 0 | 4.8 | 0 | 5.0 | | | | | | | | | | | | | |
| STANDBY | 5.0 | 0 | 0 | 4.8 | 0 | 5.0 | | | | | | | | | | | | | |

| REF NO. | Q400 | | | | Q401 | | | | Q402 | | | | Q403 | | | | | | |
|---------|------|-----|-----|--|------|-----|-----|--|------|---|-----|--|------|-----|---|--|--|--|--|
| MODE | E | C | B | | E | C | B | | E | C | B | | E | C | B | | | | |
| CD PLAY | 3.7 | 4.5 | 3.7 | | 3.7 | 3.7 | 4.5 | | 16.5 | 0 | 4.5 | | 0 | 3.2 | 0 | | | | |
| STANDBY | 3.7 | 4.5 | 3.7 | | 3.7 | 3.7 | 4.5 | | 16.5 | 0 | 4.5 | | 0 | 3.2 | 0 | | | | |

| REF NO. | Q404 | | | | | | | | | Q6004 | | | | Q6005 | | | | | |
|---------|------|------|------|-----|------|------|------|------|--|-------|-----|---|--|-------|-----|---|--|--|--|
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | E | C | B | | E | C | B | | | |
| CD PLAY | 17.0 | 17.0 | 17.0 | 1.0 | 17.0 | 17.0 | 17.0 | 17.0 | | 3.3 | 3.0 | 0 | | 0 | 4.3 | 0 | | | |
| STANDBY | 17.0 | 17.0 | 17.0 | 1.0 | 17.0 | 17.0 | 17.0 | 17.0 | | 3.3 | 3.0 | 0 | | 0 | 4.4 | 0 | | | |

| REF NO. | Q6006 | | | | Q6007 | | | | Q6037 | | | | Q6500 | | | | Q6501 | | |
|---------|-------|-----|-----|--|-------|-----|-----|--|-------|---|-----|--|-------|-----|---|--|-------|-----|-----|
| MODE | E | C | B | | E | C | B | | E | C | B | | E | C | B | | E | C | B |
| CD PLAY | 5.0 | 3.3 | 4.0 | | 5.0 | 3.3 | 4.0 | | 0.2 | 0 | 3.3 | | 0 | 4.4 | 0 | | 5.0 | 3.3 | 4.0 |
| STANDBY | 5.0 | 3.3 | 4.0 | | 5.0 | 3.3 | 4.0 | | 0.2 | 0 | 3.3 | | 0 | 4.4 | 0 | | 5.0 | 3.3 | 4.0 |

| REF NO. | Q6502 | | | | Q7102 | | | | QR400 | | | | QR1100 | | | | | | |
|---------|-------|-----|-----|--|-------|---|-----|--|-------|-----|---|--|--------|---|-----|--|--|--|--|
| MODE | E | C | B | | E | C | B | | E | C | B | | E | C | B | | | | |
| CD PLAY | 5.0 | 3.3 | 4.0 | | 3.3 | 0 | 3.0 | | -3.3 | 1.0 | 0 | | 0 | 0 | 3.3 | | | | |
| STANDBY | 5.0 | 3.3 | 4.0 | | 3.3 | 0 | 3.0 | | -3.3 | 1.0 | 0 | | 0 | 0 | 3.3 | | | | |

SC-HC58P/PC MAIN P.C.B.

17.1.6. REMOTE SENSOR P.C.B.

| REF NO. | IC943 | | | | | | | | | | | | | | | | | | |
|----------|-------|-----|---|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| MODE | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | |
| POWER ON | 3.3 | 5.0 | 0 | 5.0 | 3.3 | | | | | | | | | | | | | | |
| STANDBY | 3.3 | 5.0 | 0 | 5.0 | 3.3 | | | | | | | | | | | | | | |

SC-HC58P/PC REMOTE SENSOR P.C.B.

17.1.7. PANEL P.C.B.

| REF NO. | Q6801 | | | | Q6802 | | | | | | | | | | | | | | |
|----------|-------|-----|-----|--|-------|---|-----|--|--|--|--|--|--|--|--|--|--|--|--|
| MODE | E | C | B | | E | C | B | | | | | | | | | | | | |
| POWER ON | 0.5 | 2.2 | 3.0 | | 0.5 | 0 | 3.0 | | | | | | | | | | | | |
| STANDBY | 0.5 | 2.2 | 3.0 | | 0.5 | 0 | 3.0 | | | | | | | | | | | | |

SC-HC58P/PC PANEL P.C.B.

17.1.8. BUTTON P.C.B.

| REF NO. | QR910 | | | | QR911 | | | | QR950 | | | | | | | | | | |
|----------|-------|-----|-----|--|-------|-----|-----|--|-------|-----|-----|--|--|--|--|--|--|--|--|
| MODE | E | C | B | | E | C | B | | E | C | B | | | | | | | | |
| POWER ON | 0 | 2.8 | 1.8 | | 0 | 2.8 | 1.9 | | 0 | 5.0 | 1.8 | | | | | | | | |
| STANDBY | 0 | 2.8 | 1.8 | | 0 | 2.8 | 1.9 | | 0 | 5.0 | 1.8 | | | | | | | | |

SC-HC58P/PC BUTTON P.C.B.

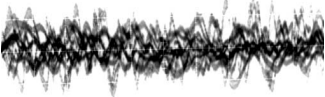
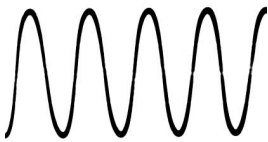



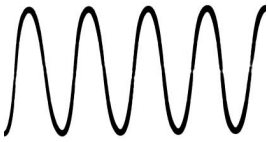
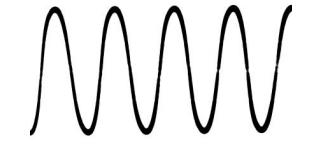

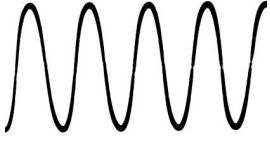
17.1.9. SMPS P.C.B.

| REF NO. MODE | IC1700 | | | | | | | | | | | | | | | | | | | |
|-------------------------|--------|------|-----|------|-------|------|-----|-----|--------|-----|---|--|--|--|--|--|--|--|--|--|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | | | | | | | |
| POWER ON | 3.0 | 20.2 | 0 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | | | | | | | | | | | | |
| STANDBY | 3.0 | 20.2 | 0 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | | | | | | | | | | | | |
| REF NO. MODE | IC1701 | | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | |
| POWER ON | 0 | 0 | 2.5 | 18.0 | | | | | | | | | | | | | | | | |
| STANDBY | 0 | 0 | 2.5 | 18.0 | | | | | | | | | | | | | | | | |
| REF NO. MODE | Q1700 | | | | Q1701 | | | | QR1700 | | | | | | | | | | | |
| | E | C | B | | E | C | B | | E | C | B | | | | | | | | | |
| POWER ON | 0 | 18.0 | 5.0 | | 18.0 | 18.0 | 5.0 | | 0 | 5.0 | 0 | | | | | | | | | |
| STANDBY | 0 | 18.0 | 5.0 | | 18.0 | 18.0 | 5.0 | | 0 | 5.0 | 0 | | | | | | | | | |
| SC-HC58P/PC SMPS P.C.B. | | | | | | | | | | | | | | | | | | | | |

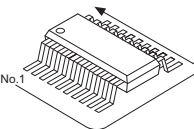
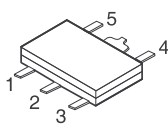
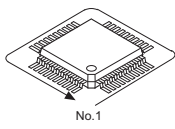
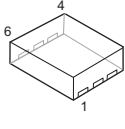
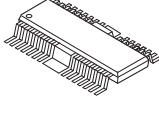
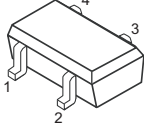
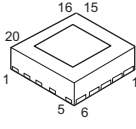
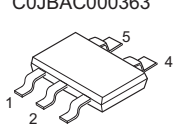
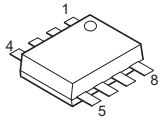
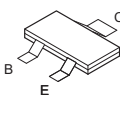
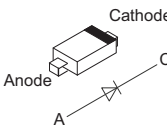
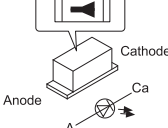
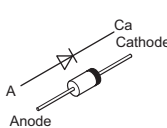
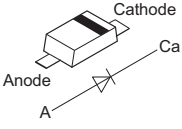
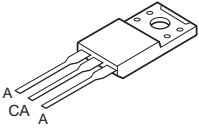
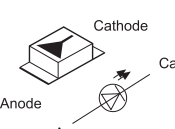
17.1.10. AirPlay CONNECT P.C.B.

| REF NO. MODE | IC2000 | | | | | | | | | | | | | | | | | | | |
|------------------------------------|--------|---|---|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | |
| POWER ON | 1.9 | 0 | 0 | 3.3 | 1.9 | | | | | | | | | | | | | | | |
| STANDBY | 1.9 | 0 | 0 | 3.3 | 1.9 | | | | | | | | | | | | | | | |
| REF NO. MODE | IC3001 | | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | |
| POWER ON | 1.2 | 0 | 0 | 2.5 | 1.2 | | | | | | | | | | | | | | | |
| STANDBY | 1.2 | 0 | 0 | 2.5 | 1.2 | | | | | | | | | | | | | | | |
| SC-HC58P/PC AirPlay CONNECT P.C.B. | | | | | | | | | | | | | | | | | | | | |

17.1.11. Waveform Chart

| | | | |
|---|---|---|---|
| <p>WF No. IC52-2,13 (TUNER)</p>  <p>0.1Vp-p(200usec/div)</p> | <p>WF No. IC400-13 (PLAY)</p>  <p>2Vp-p(20nsec/div)</p> | <p>WF No. IC400-14 (PLAY)</p>  <p>2.2Vp-p(20nsec/div)</p> | <p>WF No. IC450-3 (PLAY)</p>  <p>1.4Vp-p(5usec/div)</p> |
| <p>WF No. IC450-12 (PLAY)</p>  <p>2.8Vp-p(5usec/div)</p> | <p>WF No. IC6002-12 (PLAY)</p>  <p>3.8Vp-p(50nsec/div)</p> | <p>WF No. IC6002-13 (PLAY)</p>  <p>3Vp-p(50nsec/div)</p> | <p>WF No. IC6002-15 (PLAY)</p>  <p>1.1Vp-p(10usec/div)</p> |
| <p>WF No. IC6002-16 (PLAY)</p>  <p>2.1Vp-p(10usec/div)</p> | | | |

17.2. Illustration of IC's, Transistors and Diodes

| | | | | | |
|---|---|---|---|---|---|
|  <p>No.1</p> | <p>C0DBAYY01653 (8P) C0EBE0000240 (4P) C3ABMY000027 (50P) C3EBEY000037 (8P) C3EBFY000029 (8P) C0DBZMC00006 (4P) C0JBAR000586 (14P) C0DBAYY01652 (8P) C1AB00003801 (14P)</p> |  <p>1 2 3 4 5</p> |  <p>No.1</p> |  <p>1 3 4 6</p> |  |
| <p>MF1337S3959</p> |  <p>1 2 3 4</p> | <p>C0DACYY00012</p> |  <p>1 5 6 10 11 15 16 20</p> | <p>C1AB00003800 (48P)</p> |  <p>1 2 3 4 5</p> |
|  <p>1 4 5</p> |  <p>B C E</p> | <p>B1ADCF000001 B1GBCFJN0038 B1ADCE000012 B1ABCF000011 B1ABGC000001 DSA500100L B1GBCFJJ0051 B1GBCFNN0038 B1ABCF000176</p> |  <p>Anode Cathode A</p> |  <p>Anode Cathode Ca A</p> |  <p>Anode Cathode A Ca</p> |
| <p>B0JCGD000016 DZ2J056M0L DZ2J062M0L DZ2J051M0L DZ2J075M0L DZ2J330M0L DA2J10100L</p> |  <p>Anode Cathode A</p> | <p>DA22F2100L</p> |  <p>A CA A</p> | <p>B0EBLR000033</p> |  <p>Anode Cathode A</p> |

17.3. Terminal Function of IC's

17.3.1. IC6002 (RFKWMHC58PM) MICRO PROCESSOR IC

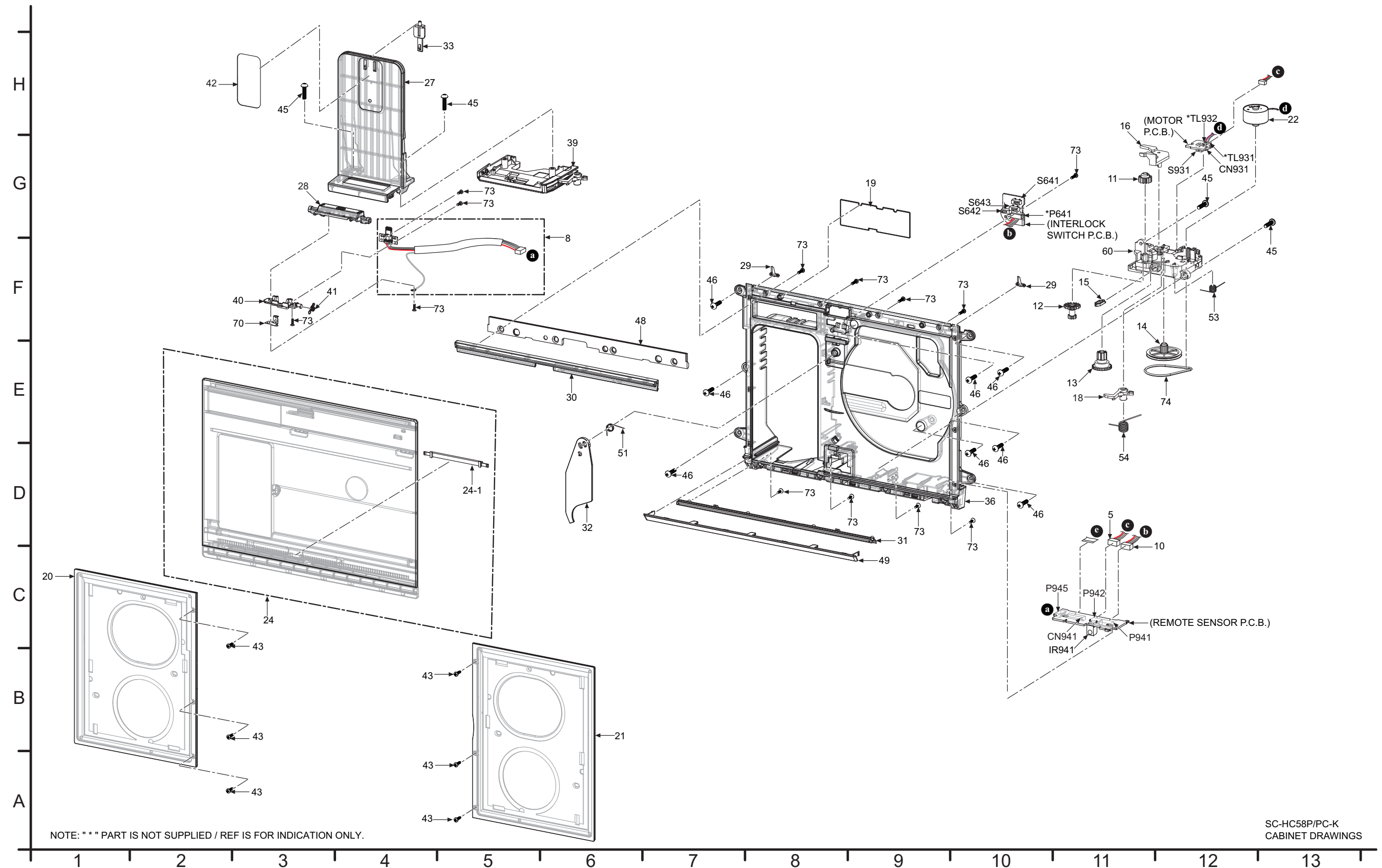
| Pin No. | Mark | I/O | Function |
|---------|---------------|-----|--|
| 1 | DAMP_RST | O | DAMP RESET |
| 2 | DAMP_SLEEP | O | DAMP SLEEP MODE |
| 3 | DAMP_MUTE | O | DAMP MUTING |
| 4 | OCD_SDA | O | OCD SERIAL DATA |
| 5 | PDET2 (D_AMP) | I | D-AMP WARNING / ERROR DETECT (ACTIVE LOW= ERROR) |
| 6 | OCD_SCK | O | OCD SERIAL DATA CLOCK |
| 7 | HPMUTE | O | HEADPHONE MUTING |
| 8 | LID_LEFT | O | SLIDING DOOR OPEN.CLOSE CONTROL LEFT |
| 9 | DAMP_ERR | I | DAMP ERROR |
| 10 | LID_RIGHT | O | SLIDING DOOR OPEN.CLOSE CONTROL RIGHT |
| 11 | GND_MMOD | - | GROUND |
| 12 | OSC2(OUT) | O | OSCILLATOR OUTPUT |
| 13 | OSC1(IN) | I | OSCILLATOR INPUT |
| 14 | VSS | - | GROUND |
| 15 | XI | O | OSCILLATOR OUTPUT |
| 16 | XO | O | OSCILLATOR INPUT |
| 17 | VDD33 | - | +3.3 VOLTAGE SUPPLY |
| 18 | VDD18 | - | +1.8 VOLTAGE SUPPLY |
| 19 | NRST | I | ACTIVE LOW RESET |
| 20 | CD_MREQ | O | CD MICRO-PROCESSOR INTERRUPT REQUEST |
| 21 | REST_SW | I | RESET SWITCH |
| 22 | CD_RESET | O | CD RESET |
| 23 | iPod_CHG_SEL | I | iPod CHANGE SELECTION |
| 24 | USB_EN | O | USB ENABLE |
| 25 | REM_IN | I | REMOTE CONTROL INPUT |
| 26 | USB_OVC | I | USB OVERCURRENT |
| 27 | USB_IN | I | USB IN |
| 28 | TUN_INT | I | TUNER INTERRUPT |
| 29 | CD_S_REQ | I | CD STATUS REQUEST |
| 30 | NC | I | NO CONNECTION |
| 31 | BT_RX | O | BT_RECEIVE |
| 32 | BT_TX | I | BT_TRANSMIT |
| 33 | BT_MFB | - | TRIGGER FOR BT MODULE RESET ACTIVE "L" |
| 34 | CD_SI | O | CD SERIAL INPUT |
| 35 | CD_SO | I | CD SERIAL OUTPUT |
| 36 | CD_SCLK | O | CD SERIAL CLOCK |
| 37 | VDD18 | - | +1.8 VOLTAGE SUPPLY |
| 38 | CD_CW | O | TRAVERSE MOTOR CLOCKWISE |
| 39 | VSS | - | GROUND |
| 40 | CD_CCW | O | TRAVERSE MOTOR COUNTER-CLOCKWISE |
| 41 | NC | O | NO CONNECTION |
| 42 | NC | - | NO CONNECTION |
| 43 | MUX_OE | O | iPod OVERCURRENT PROTECTION |
| 44 | POS_SW_ABN | O | POSITION SWITCH ABNORMAL DETECT |
| 45 | iPod_DET | I | iPod DETECT |
| 46 | POS_SW_L | I | SLIDING DOOR POSITION DETECT (L) |
| 47 | POS_SW_CEN | I | SLIDING DOOR POSITION DETECT ◎ |
| 48 | POS_SW_R | I | SLIDING DOOR POSITION DETECT ◎ |
| 49 | iPod_PCONT | O | iPod POWER CONTROL |
| 50 | PCONT_POW | O | POWER CONTROL |
| 51 | SMPS_CUT | O | SMPS CUTOFF |
| 52 | IPOD_OVC | I | NO CONNECTION |

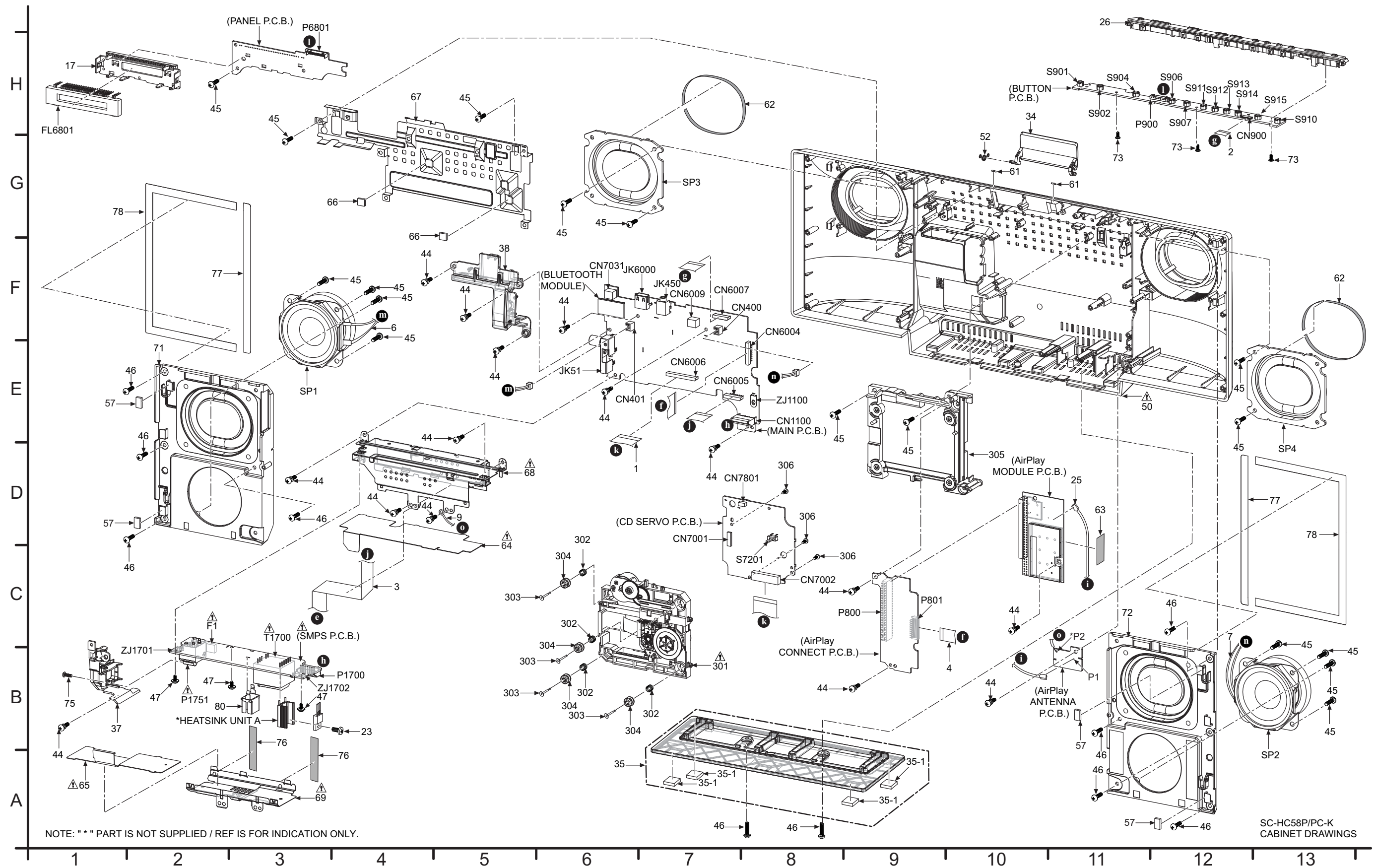
| Pin No. | Mark | I/O | Function |
|---------|------------------------|-----|--|
| 53 | STBY_CTRL | O | STANDBY CONTROL |
| 54 | IPOD_PCONT2 | I | IPOD PCONT |
| 55 | AP_RESET | O | AirPlay RESET |
| 56 | AP_V1R2_ON | - | NO CONNECTION |
| 57 | AP_V1R9_ON | O | NO CONNECTION |
| 58 | AP_CS | O | AirPlay CHIP SELECT |
| 59 | NC | O | NO CONNECTION |
| 60 | EE_SCL | O | EEPROM SERIAL CLOCK |
| 61 | EE_SDA | I/O | EEPROM SERIAL DATA |
| 62 | CRTIMER | - | NO CONNECTION |
| 63 | VSS | - | GROUND |
| 64 | AP_LED1 | O | AirPlay LED DRIVE |
| 65 | AP_LED2 | O | AirPlay LED DRIVE |
| 66 | AP_LED3 | O | AirPlay LED DRIVE |
| 67 | iPod_SEL | O | iPod SELECT |
| 68 | iPad_SEL | - | iPad SELECT |
| 69 | NC | O | NO CONNECTION |
| 70 | BT_LED | O | BT LED DRIVE |
| 71 | NC | - | NO CONNECTION |
| 72 | AP_DIN | O | AirPlay DATA IN |
| 73 | AP_DOUT | O | AirPlay DATA OUT |
| 74 | AP_CLK | O | AirPlay CLOCK |
| 75 | APD_OUT (TEST ONLY) | O | AUTO POWER DOWN DETECT |
| 76 | FL_DI | O | FL DISPLAY DATA INPUT |
| 77 | FL_CE | O | FL DISPLAY CHIP SELECT |
| 78 | FL_CLK | O | FL DISPLAY CLOCK |
| 79 | TU_SDA | I/O | TUNER SERIAL DATA |
| 80 | TU_RST | O | TUNER RESET |
| 81 | TU_SCL | O | TUNER SERIAL CLOCK |
| 82 | DAMP_SDA | I/O | DAMP SERIAL DATA |
| 83 | UART_SEL | O | UART SELECT ENABLE |
| 84 | DAMP_SCL | O | DAMP SERIAL CLOCK |
| 85 | AP_IREQ | O | AIRPLAU INTERRUPT REQUEST |
| 86 | NC | - | NO CONNECTION |
| 87 | I2S_SEL (Select AP/BT) | O | NO CONNECTION |
| 88 | ADC_APD | O | NO CONNECTION |
| 89 | VDD | - | VOLTAGE SUPPLY |
| 90 | BT_RST | O | BT_RESET |
| 91 | VSS | - | GROUND |
| 92 | KEY1 | I | KEY INPUT 1 |
| 93 | REGION_SUB | I | REGION SETTING |
| 94 | KEY2 | I | KEY INPUT 2 |
| 95 | SMPS_REG | I | SMPS TYPE DETECTION |
| 96 | PDET1 (REG) | I | REGULATOR POWER RISE DETECT |
| 97 | REGION | I | TUNER REGION SETTING |
| 98 | BT_MUTE | I | BT_MUTE |
| 99 | M_VDET | I | SMPS POWER DETECT / POWER DROP DETECTION |
| 100 | VREF+ | - | VOLTAGE SUPPLY |

18 Exploded View and Replacement Parts List

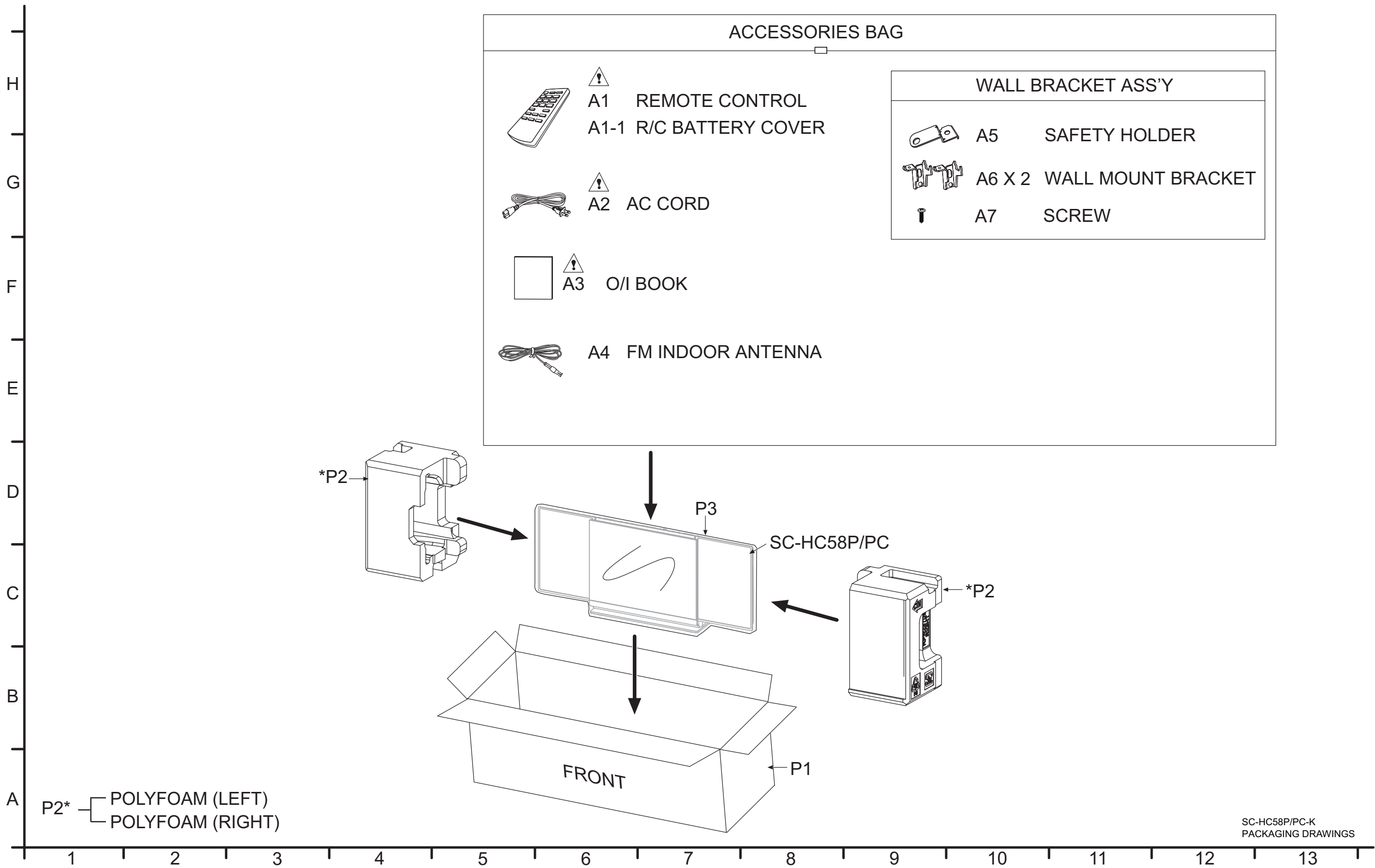
18.1. Exploded View and Mechanical replacement Parts List

18.1.1. Cabinet Parts Location






18.1.2. Packaging



18.1.3. Mechanical Replacement Parts List

Important Safety Notice

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

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.

After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Note:

- When replacing any of these components, be sure to use only manufacturer's specified parts shown in the replacement part list.
- The parenthesized indications on the Remarks column specify the destination & product color (Refer to the cover page for the information).
- Parts without these indications shall be used for all areas.
- This product uses a laser diode. Refer to "Precaution of Laser Diode".
- All parts mentioned are supplied by 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 |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|--------|----------|-----------|--|-----|---------|
| | | | CABINET AND CHASSIS | | |
| | 1 | REE1665 | 30P FFC (MAIN-CD SERVO) | 1 | |
| | 2 | REE1727 | 15P FFC (BUTTON-MAIN) | 1 | |
| | 3 | RXQ2193 | 20P FFC (REMOTE SENSOR-MAIN) | 1 | |
| | 4 | REE1729 | 20P FFC (AIR-PLAY-MAIN) | 1 | |
| | 5 | REX1517 | 4P CABLE WIRE (MOTOR-REMOTE SENSOR) | 1 | |
| | 6 | REX1564 | 2P CABLE WIRE (SP L-MAIN) | 1 | |
| | 7 | REX1565 | 2P CABLE WIRE (SP R-MAIN) | 1 | |
| | 8 | RXQ2184 | iPhone CONNECTOR UNIT | 1 | |
| | 9 | REX1617 | 1P WIRE (SMPS SHIELD-AirPlay ANTENNA) | 1 | |
| | 10 | REX1592 | 5P CABLE WIRE (INTERLOCK SWITCH-REMOTE SENSOR) | 1 | |
| | 11 | RDG0655 | DRIVE GEAR A | 1 | |
| | 12 | RDG0656 | DRIVE GEAR B | 1 | |
| | 13 | RDG0657 | RELAY GEAR | 1 | |
| | 14 | RDG0658-1 | PULLEY GEAR | 1 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|--------|----------|-------------|-------------------------|-----|---------|
| | 15 | RMM0309 | CENTERING STOPPER | 1 | |
| | 16 | RMM0311 | TRIGGER LEVER | 1 | |
| | 17 | RMN1049 | FL HOLDER | 1 | |
| | 18 | RMM0310 | SW LEVER | 1 | |
| | 19 | RGQ0735-R | FL FILTER | 1 | |
| | 20 | RYQ1179-K | FRONT ORNAMENT UNIT L | 1 | |
| | 21 | RYQ1180-K | FRONT ORNAMENT UNIT R | 1 | |
| | 22 | RFKPHC37P-K | MOTOR ASS'Y | 1 | |
| | 23 | XTB3+8JFJ-J | SCREW | 1 | |
| | 24 | RYP1853-K | DOOR UNIT | 1 | |
| | 24-1 | RDP0120-1 | IDLING RACK | 1 | |
| | 25 | REX1605 | AIRPLAY ANTENNA WIRE | 1 | |
| | 26 | RYP1844C-K | BUTTON ORNAMENT UNIT | 1 | |
| | 27 | RGK2501-K | IPHONE SUPPORT | 1 | |
| | 28 | RGK2502-K1 | IPHONE DOCK | 1 | |
| | 29 | RGL0763-Q | LIGHTING PIECE | 2 | |
| | 30 | RGP1519-K | UPPER GUIDE RAIL | 1 | |
| | 31 | RGP1520-K | LOWER GUIDE RAIL | 1 | |
| | 32 | RGQ0646-K | SHUTTER | 1 | |
| | 33 | RGQ0648-K1 | SLIDE GUIDE PIN | 1 | |
| | 34 | RGQ0649A-K | JACK LID | 1 | |
| | 35 | RYQ0903-K | BASE STAND UNIT | 1 | |
| | 35-1 | RKAX0028-K | LEG FELT | 4 | |
| | 36 | RGP1638-K | FRONT CABINET | 1 | |
| | 37 | RGQ0726-K | AC INLET HOLDER | 1 | |
| | 38 | RGQ0727A-K1 | TUNER HOLDER | 1 | |
| | 39 | RGQ0734-K | I-POD BASE | 1 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|------------------------------------|-----|---------|
| | 40 | RGQ0756-K | CONNECTOR HOLDER | 1 | |
| | 41 | RMB0967 | IPHONE SUPPORT SPRING | 1 | |
| | 42 | RMQ1921 | IPOD CUSHION | 1 | |
| | 43 | RHD20089 | SCREW | 6 | |
| | 44 | RHD26043-1 | SCREW | 15 | |
| | 45 | RHD26046 | SCREW | 21 | |
| | 46 | RHD26046-K | SCREW | 18 | |
| | 47 | RHD30092-1 | SCREW | 3 | |
| | 48 | RKW0980-1Q | TOP ORNAMENT | 1 | |
| | 49 | RKW0981-K | BOTTOM ORNAMENT | 1 | |
| ⚠ | 50 | RFKHHC58P-K | REAR CABINET ASS'Y | 1 | P |
| ⚠ | 50 | RFKHHC58PC-K | REAR CABINET ASS'Y | 1 | PC |
| | 51 | RMB0938 | SHUTTER SPRING | 1 | |
| | 52 | RMB0959 | LID SPRING | 1 | |
| | 53 | RME0489 | CENTERING SPRING | 1 | |
| | 54 | RME0490 | LEVER SPRING | 1 | |
| | 57 | RMG0877-K | LID CUSHION | 4 | |
| | 60 | RMR2047-K1 | MOTOR BASE | 1 | |
| | 61 | RMGX0033 | CUSHION RUBBER | 2 | |
| | 62 | RMQ2009 | EPT SEALER (FOR PASSIVE RADIA-TOR) | 2 | |
| | 63 | RMQ2089 | HIMELON | 1 | |
| ⚠ | 64 | RMV0410 | SMPS INSULATOR SHEET C | 1 | |
| ⚠ | 65 | RMV0415 | SMPS INSULATOR SHEET B | 1 | |
| | 66 | RSC1097 | D-AMP HEAT ABSORBER | 2 | |
| | 67 | RSC1196 | BACK SHIELD | 1 | |
| ⚠ | 68 | RSC1197A | SMPS BRACKET | 1 | |
| ⚠ | 69 | RSC1198 | SMPS SHIELD PLATE | 1 | |
| | 70 | RSC1232 | IPHONE GROUND PLATE | 1 | |
| | 71 | RYP1800-K | SPK CABINET L ASS'Y | 1 | |
| | 72 | RYP1801-K | SPK CABINET R ASS'Y | 1 | |
| | 73 | VHD1224-1A | SCREW | 16 | |
| | 74 | VMG1720 | BELT | 1 | |
| | 75 | XTB3+10JFJK | SCREW | 1 | |
| | 76 | RMFX1028 | HIMELON | 2 | |
| | 77 | RMQ2144 | EPT SEALER BAR-RIER | 2 | |
| | 78 | RMQ2153 | EPT SEALER BAR-RIER | 2 | |
| | 80 | RMV0433 | HEATSINK PLATE | 1 | |
| | | | | | |
| | | | SPEAKERS | | |
| | | | | | |
| | SP1 | EAS65P144E | SPEAKER | 1 | |
| | SP2 | EAS65P144E | SPEAKER | 1 | |
| | SP3 | RXX0323 | PASSIVE RADIA-TOR ASS'Y | 1 | |
| | SP4 | RXX0323 | PASSIVE RADIA-TOR ASS'Y | 1 | |
| | | | | | |
| | | | TRAVERSE DECK | | |
| | | | | | |
| ⚠ | 301 | RAE5301Z-V | TRAVERSE UNIT | 1 | |
| | 302 | RME0109-1 | FLOATING SPRING | 4 | |
| | 303 | RMS0757-1 | FIX PIN | 4 | |
| | 304 | RMG0730-G | FLOATING RUBBER | 4 | |
| | 305 | RMQ2020-1J | MIDDLE CHASSIS | 1 | |
| | 306 | XTN2+6GFJ | SCREW | 3 | |
| | | | | | |
| | | | PACKING MATERI-ALS | | |
| | | | | | |
| | P1 | RPG0C86 | PACKING CASE | 1 | P |
| | P1 | RPG0C87 | PACKING CASE | 1 | PC |
| | P2 | RPN2511 | POLYFOAM | 1 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
| | P3 | RPFX0262-1 | MIRAMAT | 1 | |
| | | | | | |
| | | | ACCESSORIES | | |
| | | | | | |
| ⚠ | A1 | N2QAYC000082 | REMOTE CONTROL | 1 | |
| | A1-1 | RKK-HC57P-K | R/C BATTERY COVER | 1 | |
| ⚠ | A2 | K2CB2CB00022 | AC CORD | 1 | |
| ⚠ | A3 | RQT9754-P | O/I BOOK (En) | 1 | |
| ⚠ | A3 | RQT9755-C | O/I BOOK (Cf) | 1 | PC |
| | A4 | RSAX0002 | FM INDOOR ANTENNA | 1 | |
| | A5 | RGQ0660-K | SAFETY HOLDER | 1 | |
| | A6 | RMQX1082-S | WALL MOUNT BRACKET | 2 | |
| | A7 | XTB3+8JFJK-J | SCREW | 1 | |

18.2. Electrical Replacement Parts List

Important Safety Notice

Components identified by Δ 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.

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|----------|----------|--------------|-------------------------|-----|--------------------------|
| | | | PRINTED CIRCUITS BOARDS | | |
| | PCB1 | REP4781E | CD SERVO P.C.B. | 1 | (RTL) |
| | PCB2 | REP4870LA | MAIN P.C.B. | 1 | (RTL) |
| | PCB3 | REP4870LC | REMOTE SENSOR P.C.B. | 1 | (RTL) |
| | PCB4 | REP4871BB | PANEL P.C.B. | 1 | (RTL) |
| | PCB5 | REP4871BC | INTERLOCK SWITCH P.C.B. | 1 | (RTL) |
| | PCB6 | REP4871BD | MOTOR P.C.B. | 1 | (RTL) |
| | PCB7 | REP4904B | BUTTON P.C.B. | 1 | (RTL) |
| Δ | PCB8 | REP4871BA | SMPS P.C.B. | 1 | (RTL) |
| | PCB9 | RSNE011B0 | BLUETOOTH MODULE | 1 | JIGS & ADJ |
| | PCB10 | REP4911A | AIRPLAY CONNECTOR P.C.B | 1 | (RTL) |
| | PCB11 | REP4870LE | AirPlay ANTENNA P.C.B. | 1 | (RTL) |
| | | | INTEGRATED CIRCUITS | | |
| | IC52 | VUEALLPT058 | IC | 1 | (E.S.D) [SPG] JIGS & ADJ |
| | IC400 | ClAB00003800 | IC | 1 | (E.S.D) |
| | IC401 | C0DBGYY00915 | IC | 1 | (E.S.D) |
| | IC450 | ClAB00003801 | IC | 1 | (E.S.D) |
| | IC943 | C0JBAC000363 | IC | 1 | (E.S.D) |
| | IC1100 | C0DBAYY01652 | IC | 1 | (E.S.D) |
| | IC1101 | C0DBAYY01653 | IC | 1 | (E.S.D) |
| | IC1102 | C0DBEYY00146 | IC | 1 | (E.S.D) |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|--------|----------|----------|-------------------------|------------------|--------------|
| | | IC1104 | C0DBAYY01653 | IC | 1 (E.S.D) |
| | | IC1105 | C0DBEYY00146 | IC | 1 (E.S.D) |
| | | IC1700 | C0DACYY00012 | IC | 1 (E.S.D) |
| | | IC1701 | C0DBZMC00006 | IC | 1 (E.S.D) |
| | | IC2000 | C0DBGYY01654 | IC | 1 (E.S.D) |
| | | IC3001 | C0DBGYY01640 | IC | 1 (E.S.D) |
| | | IC6000 | C0DBZYY00610 | IC | 1 (E.S.D) |
| | | IC6001 | C0JBAR000586 | IC | 1 (E.S.D) |
| | | IC6002 | RFKWMHC58PM | IC | 1 (E.S.D) |
| | | IC6003 | C0EBE0000240 | IC | 1 (E.S.D) |
| | | IC6004 | C3EBEY000037 | IC | 1 (E.S.D) |
| | | IC6006 | C0DBZYY00610 | IC | 1 (E.S.D) |
| | | IC6500 | C0DBZYY00555 | IC | 1 (E.S.D) |
| | | IC7001 | MN6627947RK | IC | 1 (E.S.D) |
| | | IC7002 | C0GBY0000117 | IC | 1 (E.S.D) |
| | | IC7111 | RSNE011B0 | BLUETOOTH MODULE | 1 JIGS & ADJ |
| | | IC7502 | MFI337S3959 | IC | 1 (E.S.D) |
| | | IC7704 | C3ABMY000027 | IC | 1 (E.S.D) |
| | | IC7851 | C3EBFY000029 | IC | 1 (E.S.D) |
| | | | TRANSISTORS | | |
| | | Q400 | B1ABCF000011 | TRANSISTOR | 1 (E.S.D) |
| | | Q401 | B1ABCF000011 | TRANSISTOR | 1 (E.S.D) |
| | | Q402 | B1ADCE000012 | TRANSISTOR | 1 (E.S.D) |
| | | Q403 | B1ABCF000011 | TRANSISTOR | 1 (E.S.D) |
| | | Q404 | B1CHRC000047 | TRANSISTOR | 1 (E.S.D) |
| | | Q1700 | B1ABGC000001 | TRANSISTOR | 1 (E.S.D) |
| | | Q1701 | DSA500100L | TRANSISTOR | 1 (E.S.D) |
| | | Q6004 | B1ADCE000012 | TRANSISTOR | 1 (E.S.D) |
| | | Q6005 | B1ABCF000176 | TRANSISTOR | 1 (E.S.D) |
| | | Q6006 | B1ADCF000001 | TRANSISTOR | 1 (E.S.D) |
| | | Q6007 | B1ADCF000001 | TRANSISTOR | 1 (E.S.D) |
| | | Q6037 | B1ADCE000012 | TRANSISTOR | 1 (E.S.D) |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|--------|----------|---------------|-------------------------|-----|---------|
| | Q6500 | B1ABCF000176 | TRANSISTOR | 1 | (E.S.D) |
| | Q6501 | B1ADCF0000001 | TRANSISTOR | 1 | (E.S.D) |
| | Q6502 | B1ADCF0000001 | TRANSISTOR | 1 | (E.S.D) |
| | Q6801 | B1ABCF0000011 | TRANSISTOR | 1 | (E.S.D) |
| | Q6802 | B1ADCE0000012 | TRANSISTOR | 1 | (E.S.D) |
| | Q7102 | B1ADCE0000012 | TRANSISTOR | 1 | (E.S.D) |
| | Q7601 | B1ADCF0000001 | TRANSISTOR | 1 | (E.S.D) |
| | QR400 | B1GBCFNN0038 | TRANSISTOR | 1 | (E.S.D) |
| | QR910 | B1GBCFJN0038 | TRANSISTOR | 1 | (E.S.D) |
| | QR911 | B1GBCFJN0038 | TRANSISTOR | 1 | (E.S.D) |
| | QR950 | B1GBCFJN0038 | TRANSISTOR | 1 | (E.S.D) |
| | QR1100 | B1GBCFNN0038 | TRANSISTOR | 1 | (E.S.D) |
| | QR1700 | B1GBCFJJ0051 | TRANSISTOR | 1 | (E.S.D) |
| | | | DIODES | | |
| | D801 | B0ECKM0000008 | DIODE | 1 | (E.S.D) |
| | D900 | B3AAB0000501 | DIODE | 1 | (E.S.D) |
| | D910 | B3AKB0000024 | DIODE | 1 | (E.S.D) |
| | D1100 | DA2J10100L | DIODE | 1 | (E.S.D) |
| | D1101 | DA2J10100L | DIODE | 1 | (E.S.D) |
| | D1103 | DZ2J062M0L | DIODE | 1 | (E.S.D) |
| | D1112 | DZ2J062M0L | DIODE | 1 | (E.S.D) |
| | D1113 | DZ2J062M0L | DIODE | 1 | (E.S.D) |
| | D1114 | DZ2J062M0L | DIODE | 1 | (E.S.D) |
| | D1115 | DZ2J062M0L | DIODE | 1 | (E.S.D) |
| | D1162 | DZ2J062M0L | DIODE | 1 | (E.S.D) |
| | D1700 | B0ABSM0000008 | DIODE | 1 | (E.S.D) |
| | D1701 | B0EBLR0000033 | DIODE | 1 | (E.S.D) |
| | D1702 | DZ2J075M0L | DIODE | 1 | (E.S.D) |
| | D1703 | B0EAKU0000002 | DIODE | 1 | (E.S.D) |
| | D1708 | DA22F2100L | DIODE | 1 | (E.S.D) |
| | D1709 | DZ2J330M0L | DIODE | 1 | (E.S.D) |
| | D6001 | DA2J10100L | DIODE | 1 | (E.S.D) |
| | D6002 | DA2J10100L | DIODE | 1 | (E.S.D) |
| | D6003 | DA2J10100L | DIODE | 1 | (E.S.D) |
| | D6004 | DA2J10100L | DIODE | 1 | (E.S.D) |
| | D6005 | DA2J10100L | DIODE | 1 | (E.S.D) |
| | D6006 | DA2J10100L | DIODE | 1 | (E.S.D) |
| | D6007 | DA2J10100L | DIODE | 1 | (E.S.D) |
| | D6008 | B0JCGD0000016 | DIODE | 1 | (E.S.D) |
| | D6030 | DA2J10100L | DIODE | 1 | (E.S.D) |
| | D6031 | DA2J10100L | DIODE | 1 | (E.S.D) |
| | D6040 | DA2J10100L | DIODE | 1 | (E.S.D) |
| | D6041 | DA2J10100L | DIODE | 1 | (E.S.D) |
| | D6042 | DA2J10100L | DIODE | 1 | (E.S.D) |
| | D6043 | DA2J10100L | DIODE | 1 | (E.S.D) |
| | D6801 | DA2J10100L | DIODE | 1 | (E.S.D) |
| | D6802 | DA2J10100L | DIODE | 1 | (E.S.D) |
| | D6803 | DA2J10100L | DIODE | 1 | (E.S.D) |
| | D6804 | DA2J10100L | DIODE | 1 | (E.S.D) |
| | D6806 | DZ2J051M0L | DIODE | 1 | (E.S.D) |
| | D7111 | B0JCGD0000016 | DIODE | 1 | (E.S.D) |
| | D7112 | DA2J10100L | DIODE | 1 | (E.S.D) |
| | D7650 | DZ2J056M0L | DIODE | 1 | (E.S.D) |
| ⚠ | Z1752 | ERZV10V511CS | ZNR | 1 | (E.S.D) |
| | | | VARISTOR | | |
| | VA51 | EZAEG2A50AX | VARISTOR | 1 | |
| | | | SWITCHES | | |
| | S641 | K0L1BA0000078 | SW ABN | 1 | |
| | S642 | K0L1BA0000078 | SW RIGHT | 1 | |
| | S643 | K0L1BA0000078 | SW CENTER | 1 | |
| | S901 | EVQ11G04M | SW POWER | 1 | |
| | S902 | EVQ11G04M | SW iPod OP/CL | 1 | |
| | S904 | EVQ11G04M | SW MULTI FN | 1 | |
| | S906 | EVQ11G04M | SW STOP | 1 | |
| | S907 | EVQ11G04M | SW PLAY/PAUSE | 1 | |
| | S910 | EVQ11G04M | SW NET | 1 | |
| | S911 | EVQ11G04M | SW REV | 1 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|--------|----------|---------------|-------------------------|-----|---------|
| | S912 | EVQ11G04M | SW FWD | 1 | |
| | S913 | EVQ11G04M | SW VOL - | 1 | |
| | S914 | EVQ11G04M | SW VOL + | 1 | |
| | S915 | EVQ11G04M | SW CD OPEN | 1 | |
| | S931 | K0C111A000010 | SW LEFT | 1 | |
| | S7201 | K0L1BA000158 | SW RESET | 1 | |
| | | | CONNECTORS | | |
| | CN400 | K1KA02AA0180 | 2P CONNECTOR | 1 | |
| | CN401 | K1KA02AA0180 | 2P CONNECTOR | 1 | |
| | CN900 | K1MN15B00121 | 15P CONNECTOR | 1 | |
| | CN931 | K1KA04BA0061 | 4P CONNECTOR | 1 | |
| | CN941 | K1MN16BA0005 | 16P CONNECTOR | 1 | |
| | CN1100 | K1KB07A00028 | 7P CONNECTOR | 1 | |
| | CN6004 | K1MN20A00013 | 20P CONNECTOR | 1 | |
| | CN6005 | K1MY16AA0267 | 16P CONNECTOR | 1 | |
| | CN6006 | K1MN30A00019 | 30P CONNECTOR | 1 | |
| | CN6007 | K1MN15AA0046 | 15P CONNECTOR | 1 | |
| | CN6009 | K1MN06C00005 | 6P CONNECTOR | 1 | |
| | CN7001 | K1MN24BA0197 | 24P CONNECTOR | 1 | |
| | CN7002 | K1MN30B00046 | 30P CONNECTOR | 1 | |
| | CN7031 | K1MN06C00005 | 6P CONNECTOR | 1 | |
| | CN7801 | K1KA05BA0014 | 5P CONNECTOR | 1 | |
| | JK6000 | K1FY104B0078 | USB CONNECTOR | 1 | |
| | P800 | K3ZZ04800002 | AirPlay CONNEC-TOR | 1 | |
| | P801 | K1MN20B00019 | 20P CONNECTOR | 1 | |
| | P900 | K1KB08B00041 | 8P CONNECTOR | 1 | |
| | P941 | K1KA05BA0061 | 5P CONNECTOR | 1 | |
| | P942 | K1KA04BA0061 | 4P CONNECTOR | 1 | |
| | P945 | K1KA05BA0047 | 5P CONNECTOR | 1 | |
| | P1700 | K1KA07BA0063 | 7P CONNECTOR | 1 | |
| | P6801 | K1KA08AA0031 | 8P CONNECTOR | 1 | |
| | | | COILS AND INDUC-TORS | | |
| | K7724 | J0JYB0000013 | INDUCTOR | 1 | |
| | L51 | G1CR18JA0020 | INDUCTOR | 1 | |
| | L60 | J0JYC0000196 | INDUCTOR | 1 | |
| | L400 | G1C150M00023 | INDUCTOR | 1 | |
| | L401 | G1C150M00023 | INDUCTOR | 1 | |
| | L402 | G1C150M00023 | INDUCTOR | 1 | |
| | L403 | G1C150M00023 | INDUCTOR | 1 | |
| | L502 | J0JYC0000348 | INDUCTOR | 1 | |
| | L504 | J0JHC0000046 | INDUCTOR | 1 | |
| | L1101 | G1C100MA0226 | INDUCTOR | 1 | |
| | L1102 | G1C100MA0226 | INDUCTOR | 1 | |
| | L1105 | G1C100MA0226 | INDUCTOR | 1 | |
| | L1700 | G1C100K00019 | INDUCTOR | 1 | |
| ⚠ | L1702 | G0B922G00002 | LINE FILTER | 1 | |
| | L6006 | J0JYC0000366 | INDUCTOR | 1 | |
| | L7231 | J0JYC0000305 | INDUCTOR | 1 | |
| | L7336 | J0JYB0000013 | INDUCTOR | 1 | |
| | L7367 | J0JCC0000405 | INDUCTOR | 1 | |
| | LB51 | J0JBC0000134 | INDUCTOR | 1 | |
| | LB61 | J0JHC0000118 | INDUCTOR | 1 | |
| | LB400 | J0JHC0000118 | INDUCTOR | 1 | |
| | LB401 | J0JHC0000118 | INDUCTOR | 1 | |
| | LB402 | J0JBC0000134 | INDUCTOR | 1 | |
| | LB403 | J0JBC0000134 | INDUCTOR | 1 | |
| | LB404 | J0JGC0000063 | INDUCTOR | 1 | |
| | LB406 | J0JHC0000034 | INDUCTOR | 1 | |
| | LB407 | J0JHC0000034 | INDUCTOR | 1 | |
| | LB408 | J0JHC0000034 | INDUCTOR | 1 | |
| | LB409 | J0JHC0000034 | INDUCTOR | 1 | |
| | LB411 | J0JYC0000305 | INDUCTOR | 1 | |
| | LB450 | J0JYC0000196 | INDUCTOR | 1 | |
| | LB451 | J0JYC0000196 | INDUCTOR | 1 | |
| | LB452 | J0JYC0000305 | INDUCTOR | 1 | |
| | LB801 | J0JYC0000490 | INDUCTOR | 1 | |
| | LB802 | J0JHC0000046 | INDUCTOR | 1 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|--------|----------|---------------|-------------------------|-----|---------|
| | LB803 | J0JYC0000490 | INDUCTOR | 1 | |
| | LB804 | J0JYC0000490 | INDUCTOR | 1 | |
| | LB805 | J0JYC0000490 | INDUCTOR | 1 | |
| | LB806 | J0JYC0000490 | INDUCTOR | 1 | |
| | LB807 | J0JYC0000490 | INDUCTOR | 1 | |
| | LB808 | J0JYC0000490 | INDUCTOR | 1 | |
| | LB809 | J0JYC0000490 | INDUCTOR | 1 | |
| | LB810 | J0JHC0000046 | INDUCTOR | 1 | |
| | LB811 | J0JYC0000490 | INDUCTOR | 1 | |
| | LB812 | J0JHC0000046 | INDUCTOR | 1 | |
| | LB813 | J0JHC0000046 | INDUCTOR | 1 | |
| | LB814 | J0JHC0000046 | INDUCTOR | 1 | |
| | LB815 | J0JHC0000046 | INDUCTOR | 1 | |
| | LB816 | J0JHC0000046 | INDUCTOR | 1 | |
| | LB1101 | J0JBC0000134 | INDUCTOR | 1 | |
| | LB1103 | J0JHC0000046 | INDUCTOR | 1 | |
| | LB1104 | J0JGC0000063 | INDUCTOR | 1 | |
| | LB1105 | J0JGC0000063 | INDUCTOR | 1 | |
| | LB1106 | J0JGC0000063 | INDUCTOR | 1 | |
| | LB1107 | J0JGC0000063 | INDUCTOR | 1 | |
| | LB1161 | J0JHC0000046 | INDUCTOR | 1 | |
| | LB1162 | J0JHC0000118 | INDUCTOR | 1 | |
| | LB1221 | J0JGC0000063 | INDUCTOR | 1 | |
| | LB6000 | J0JHC0000046 | INDUCTOR | 1 | |
| | LB6001 | J0JHC0000118 | INDUCTOR | 1 | |
| | LB6002 | J0JHC0000118 | INDUCTOR | 1 | |
| | LB6003 | J0JHC0000118 | INDUCTOR | 1 | |
| | LB6030 | J0JYC0000196 | INDUCTOR | 1 | |
| | LB6802 | J0JHC0000118 | INDUCTOR | 1 | |
| | LB6803 | J0JHC0000118 | INDUCTOR | 1 | |
| | LB6805 | J0JHC0000118 | INDUCTOR | 1 | |
| | LB7031 | D0GBR00J0004 | 0 1/10W | 1 | |
| | LB7033 | J0JBC0000134 | INDUCTOR | 1 | |
| | LB7034 | J0JBC0000134 | INDUCTOR | 1 | |
| | | | TRANSFORMER | | |
| △ | T1700 | G4DYZ0000071 | TRANSFORMER | 1 | |
| | | | REMOTE SENSOR | | |
| | IR941 | B3RAB0000110 | REMOTE SENSOR | 1 | |
| | | | PHOTO COUPLER | | |
| △ | PC1702 | B3PBA0000579 | PHOTO COUPLER | 1 | |
| | | | TERMINALS | | |
| | ZJ1100 | K4CZ01000027 | TERMINAL | 1 | |
| | ZJ1701 | K4CZ01000027 | TERMINAL | 1 | |
| | ZJ1702 | K4CZ01000027 | TERMINAL | 1 | |
| | | | OSCILLATORS | | |
| | X400 | H0J245500110 | OSCILLATOR | 1 | |
| | X6000 | H2B800400007 | OSCILLATOR | 1 | |
| | X6001 | H0A327200181 | OSCILLATOR | 1 | |
| | X7201 | H2D169500017 | OSCILLATOR | 1 | |
| | X7205 | H0J120500076 | OSCILLATOR | 1 | |
| | | | LCD DISPLAY | | |
| | FL6801 | A2BB00000186 | LCD DISPLAY | 1 | |
| | | | FUSE | | |
| △ | F1 | K5G202Y00006 | FUSE | 1 | |
| | | | JACKS | | |
| | JK51 | K4ZZ02000103 | JK FM ANTENNA | 1 | |
| | JK450 | K2HCL1YYB0033 | JK HEADPHONE | 1 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
| | P1 | K1QZA1AD0014 | RF CONNECTOR | 1 | |
| △ | P1751 | K2AB2B000007 | AC INLET | 1 | |
| | | | CHIP JUMPERS | | |
| | K401 | D0GBR00J0004 | 0 1/10W | 1 | |
| | K7001 | D0GBR00J0004 | 0 1/10W | 1 | |
| | K7011 | D0GBR00J0004 | 0 1/10W | 1 | |
| | K7101 | D0GBR00J0004 | 0 1/10W | 1 | |
| | K7102 | D0GBR00J0004 | 0 1/10W | 1 | |
| | K7111 | D0GBR00J0004 | 0 1/10W | 1 | |
| | K7211 | D0GBR00J0004 | 0 1/10W | 1 | |
| | K7212 | D0GBR00J0004 | 0 1/10W | 1 | |
| | K7258 | D0GBR00J0004 | 0 1/10W | 1 | |
| | K7278 | D0GBR00J0004 | 0 1/10W | 1 | |
| | K7342 | D0GBR00J0004 | 0 1/10W | 1 | |
| | LB52 | D0GAR00J0005 | 0 1/16W | 1 | |
| | LB6004 | D0GBR00J0004 | 0 1/10W | 1 | |
| | LB6801 | D0GBR00J0004 | 0 1/10W | 1 | |
| | LB6804 | D0GBR00J0004 | 0 1/10W | 1 | |
| | LB7032 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R443 | D0GBR00J0004 | 0 1/10W | 1 | |
| | W6802 | D0GDR00JA017 | 0 1/8W | 1 | |
| | | | RESISTORS | | |
| | K7202 | D0GB101JA065 | 100 1/10W | 1 | |
| | K7701 | D0GB271JA065 | 270 1/10W | 1 | |
| | K7702 | D0GB271JA065 | 270 1/10W | 1 | |
| | K7703 | D0GB271JA065 | 270 1/10W | 1 | |
| | R51 | D0GB222JA065 | 2.2K 1/10W | 1 | |
| | R52 | D0GB561JA065 | 560 1/10W | 1 | |
| | R53 | D0GA472JA023 | 4.7K 1/16W | 1 | |
| | R54 | D0GA472JA023 | 4.7K 1/16W | 1 | |
| | R55 | D0GA221JA023 | 220 1/16W | 1 | |
| | R56 | D0GB221JA065 | 220 1/10W | 1 | |
| | R57 | D0GA102JA023 | 1K 1/16W | 1 | |
| | R59 | D0GB222JA065 | 2.2K 1/10W | 1 | |
| | R60 | D0GB222JA065 | 2.2K 1/10W | 1 | |
| | R401 | D0GB222JA065 | 2.2K 1/10W | 1 | |
| | R402 | D0GB222JA065 | 2.2K 1/10W | 1 | |
| | R403 | D0GB101JA065 | 100 1/10W | 1 | |
| | R404 | D0GB104JA065 | 100K 1/10W | 1 | |
| | R405 | D0GB104JA065 | 100K 1/10W | 1 | |
| | R406 | D0GB104JA065 | 100K 1/10W | 1 | |
| | R407 | D0GB104JA065 | 100K 1/10W | 1 | |
| | R408 | D0GB104JA065 | 100K 1/10W | 1 | |
| | R409 | D0GB104JA065 | 100K 1/10W | 1 | |
| | R410 | D0GB223JA065 | 22K 1/10W | 1 | |
| | R411 | D0GB472JA065 | 4.7K 1/10W | 1 | |
| | R412 | D0GB105JA065 | 1M 1/10W | 1 | |
| | R413 | D0GB152JA065 | 1.5K 1/10W | 1 | |
| | R414 | D0GB101JA065 | 100 1/10W | 1 | |
| | R415 | D0GB101JA065 | 100 1/10W | 1 | |
| | R416 | D0GB101JA065 | 100 1/10W | 1 | |
| | R417 | D0GB101JA065 | 100 1/10W | 1 | |
| | R418 | D0GB104JA065 | 100K 1/10W | 1 | |
| | R419 | D0GB104JA065 | 100K 1/10W | 1 | |
| | R420 | D0GB223JA065 | 22K 1/10W | 1 | |
| | R421 | D0GB153JA065 | 15K 1/10W | 1 | |
| | R422 | D0GB223JA065 | 22K 1/10W | 1 | |
| | R423 | D0GB153JA065 | 15K 1/10W | 1 | |
| | R424 | D0GB223JA065 | 22K 1/10W | 1 | |
| | R425 | D0GB222JA065 | 2.2K 1/10W | 1 | |
| | R426 | D0GB223JA065 | 22K 1/10W | 1 | |
| | R427 | D0GB222JA065 | 2.2K 1/10W | 1 | |
| | R428 | D0GB222JA065 | 2.2K 1/10W | 1 | |
| | R429 | D0GB222JA065 | 2.2K 1/10W | 1 | |
| | R430 | D0GB153JA065 | 15K 1/10W | 1 | |
| | R431 | D0GB153JA065 | 15K 1/10W | 1 | |
| | R432 | D0GB333JA065 | 33K 1/10W | 1 | |
| | R433 | D0GB333JA065 | 33K 1/10W | 1 | |
| | R434 | D0GB333JA065 | 33K 1/10W | 1 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
| | R435 | D0GB333JA065 | 33K 1/10W | 1 | |
| | R436 | D0GB101JA065 | 100 1/10W | 1 | |
| | R437 | D0GB101JA065 | 100 1/10W | 1 | |
| | R438 | D0GB473JA065 | 47K 1/10W | 1 | |
| | R439 | D0GB473JA065 | 47K 1/10W | 1 | |
| | R440 | D0GB473JA065 | 47K 1/10W | 1 | |
| | R441 | D0GB473JA065 | 47K 1/10W | 1 | |
| | R444 | D0GB473JA065 | 47K 1/10W | 1 | |
| | R446 | D0GB102JA065 | 1K 1/10W | 1 | |
| | R447 | D0GB102JA065 | 1K 1/10W | 1 | |
| | R448 | D0GB561JA065 | 560 1/10W | 1 | |
| | R449 | D0GB473JA065 | 47K 1/10W | 1 | |
| | R451 | D0GB221JA065 | 220 1/10W | 1 | |
| | R452 | D0GB102JA065 | 1K 1/10W | 1 | |
| | R453 | D0GB273JA065 | 27K 1/10W | 1 | |
| | R471 | D0GB221JA065 | 220 1/10W | 1 | |
| | R472 | D0GB221JA065 | 220 1/10W | 1 | |
| | R473 | D0GB221JA065 | 220 1/10W | 1 | |
| | R474 | D0GB221JA065 | 220 1/10W | 1 | |
| | R475 | D0GB221JA065 | 220 1/10W | 1 | |
| | R476 | D0GB221JA065 | 220 1/10W | 1 | |
| | R477 | D0GB221JA065 | 220 1/10W | 1 | |
| | R478 | D0GB221JA065 | 220 1/10W | 1 | |
| | R479 | D0GB221JA065 | 220 1/10W | 1 | |
| | R480 | D0GB274JA065 | 270K 1/10W | 1 | |
| | R800 | D0GB473JA065 | 47K 1/10W | 1 | |
| | R901 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R902 | D0GB122JA065 | 1.2K 1/10W | 1 | |
| | R903 | D0GB122JA065 | 1.2K 1/10W | 1 | |
| | R904 | D0GB222JA065 | 2.2K 1/10W | 1 | |
| | R905 | D0GB332JA065 | 3.3K 1/10W | 1 | |
| | R906 | D0GB472JA065 | 4.7K 1/10W | 1 | |
| | R907 | D0GB752JA065 | 7.5K 1/10W | 1 | |
| | R911 | D0GB122JA065 | 1.2K 1/10W | 1 | |
| | R912 | D0GB122JA065 | 1.2K 1/10W | 1 | |
| | R913 | D0GB222JA065 | 2.2K 1/10W | 1 | |
| | R914 | D0GB332JA065 | 3.3K 1/10W | 1 | |
| | R921 | D0GB472JA065 | 4.7K 1/10W | 1 | |
| | R922 | D0GB561JA065 | 560 1/10W | 1 | |
| | R923 | D0GB391JA065 | 390 1/10W | 1 | |
| | R941 | D0GB330JA065 | 33 1/10W | 1 | |
| | R942 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R943 | D0GB104JA065 | 100K 1/10W | 1 | |
| | R944 | D0GB102JA065 | 1K 1/10W | 1 | |
| | R945 | D0GB152JA065 | 1.5K 1/10W | 1 | |
| | R950 | D0GB182JA065 | 1.8K 1/10W | 1 | |
| | R1102 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R1103 | ERJ3RBD4642V | 46.4K 1/16W | 1 | |
| | R1104 | D1BB1002A074 | 10K 1/10W | 1 | |
| | R1106 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R1107 | D0HB183ZA002 | 18K 1/16W | 1 | |
| | R1108 | D1BB6801A074 | 6.8K 1/10W | 1 | |
| | R1110 | D0GFR00J0005 | 0 1/4W | 1 | |
| | R1111 | D0GB682JA065 | 6.8K 1/10W | 1 | |
| | R1112 | D0GB682JA065 | 6.8K 1/10W | 1 | |
| | R1114 | D0GB100JA065 | 10 1/10W | 1 | |
| | R1116 | ERJ3RBD4642V | 46.4K 1/16W | 1 | |
| | R1118 | D1BB1002A074 | 10K 1/10W | 1 | |
| | R1119 | D0GB101JA065 | 100 1/10W | 1 | |
| | R1123 | D0GFR00J0005 | 0 1/4W | 1 | |
| | R1124 | D0GB682JA065 | 6.8K 1/10W | 1 | |
| | R1127 | ERJ3GEYF474V | 470K 1/10W | 1 | |
| | R1128 | D1BB1003A074 | 100K 1/10W | 1 | |
| | R1129 | D1BB1003A074 | 100K 1/10W | 1 | |
| | R1130 | D1BB3302A074 | 33K 1/10W | 1 | |
| | R1131 | D0GB100JA065 | 10 1/10W | 1 | |
| | R1167 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R1221 | D0GB184JA065 | 180K 1/10W | 1 | |
| | R1222 | D0GB473JA065 | 47K 1/10W | 1 | |
| | R1700 | D0GD4R7JA052 | 4.7 1/8W | 1 | |
| | R1701 | D0GB152JA065 | 1.5K 1/10W | 1 | |
| | R1702 | D0GB682JA065 | 6.8K 1/10W | 1 | |
| | R1703 | D0GB332JA065 | 3.3K 1/10W | 1 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
| | R1704 | ERJ1TYJ333U | 33K 1W | 1 | |
| | R1705 | D0GB103JA065 | 10K 1/10W | 1 | |
| | R1706 | D0GB223JA065 | 22K 1/10W | 1 | |
| | R1707 | D0GB563JA065 | 56K 1/10W | 1 | |
| | R1708 | ERJ1TYJ220U | 22 1W | 1 | |
| | R1709 | D0GB101JA065 | 100 1/10W | 1 | |
| | R1710 | D1BB4702A074 | 47K 1/10W | 1 | |
| | R1711 | D0GB103JA065 | 10K 1/10W | 1 | |
| | R1716 | D0GB394JA065 | 390K 1/10W | 1 | |
| | R1717 | D0GB122JA065 | 1.2K 1/10W | 1 | |
| | R1719 | ERJ1TRQJR22U | 0.22 1W | 1 | |
| △ | R1724 | ERJ12YJ105U | 1M 1/2W | 1 | |
| | R1725 | D0GB223JA065 | 22K 1/10W | 1 | |
| △ | R1726 | ERJ12YJ105U | 1M 1/2W | 1 | |
| | R1727 | D0GB104JA065 | 100K 1/10W | 1 | |
| | R1728 | D1BB8201A074 | 8.2K 1/10W | 1 | |
| | R1729 | D0GD220JA017 | 22 1/8W | 1 | |
| | R1730 | D1BB6801A074 | 6.8K 1/10W | 1 | |
| | R6000 | D1BB5102A073 | 51K 1/10W | 1 | |
| | R6001 | D1BB5102A073 | 51K 1/10W | 1 | |
| | R6002 | D0GB472JA065 | 4.7K 1/10W | 1 | |
| | R6003 | D0GB472JA065 | 4.7K 1/10W | 1 | |
| | R6005 | D1BB5102A073 | 51K 1/10W | 1 | |
| | R6006 | D1BB4302A073 | 43K 1/10W | 1 | |
| | R6007 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R6008 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6009 | D1BB5102A073 | 51K 1/10W | 1 | |
| | R6010 | D0GB473JA065 | 47K 1/10W | 1 | |
| | R6011 | D1BB7502A073 | 75K 1/10W | 1 | |
| | R6012 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R6014 | D0GB104JA065 | 100K 1/10W | 1 | |
| | R6016 | D0GB102JA065 | 1K 1/10W | 1 | |
| | R6019 | D0GB822JA065 | 8.2K 1/10W | 1 | |
| | R6022 | D0GB472JA065 | 4.7K 1/10W | 1 | |
| | R6023 | D0GB472JA065 | 4.7K 1/10W | 1 | |
| | R6024 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6025 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6026 | D0GB104JA065 | 100K 1/10W | 1 | |
| | R6028 | D0GB104JA065 | 100K 1/10W | 1 | |
| | R6029 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6030 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6031 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6032 | D0GB104JA065 | 100K 1/10W | 1 | |
| | R6033 | D0GB104JA065 | 100K 1/10W | 1 | |
| | R6035 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6036 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6037 | D0GB473JA065 | 47K 1/10W | 1 | |
| | R6038 | D0GB103JA065 | 10K 1/10W | 1 | |
| | R6039 | D0GB102JA065 | 1K 1/10W | 1 | |
| | R6041 | D0GB104JA065 | 100K 1/10W | 1 | |
| | R6042 | D0GB472JA065 | 4.7K 1/10W | 1 | |
| | R6043 | D0GB103JA065 | 10K 1/10W | 1 | |
| | R6044 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6045 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6046 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6047 | D0GB102JA065 | 1K 1/10W | 1 | |
| | R6048 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6052 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R6053 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6054 | D0GB224JA065 | 220K 1/10W | 1 | |
| | R6055 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6056 | D0GB103JA065 | 10K 1/10W | 1 | |
| | R6057 | D0GB102JA065 | 1K 1/10W | 1 | |
| | R6058 | D0GB822JA065 | 8.2K 1/10W | 1 | |
| | R6059 | D0GB102JA065 | 1K 1/10W | 1 | |
| | R6060 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6061 | D0GB102JA065 | 1K 1/10W | 1 | |
| | R6062 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6063 | D0GB104JA065 | 100K 1/10W | 1 | |
| | R6064 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6065 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6066 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6067 | D0GB101JA065 | 100 1/10W | 1 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
| | R6068 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6069 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6070 | D0GB104JA065 | 100K 1/10W | 1 | |
| | R6072 | D0GB103JA065 | 10K 1/10W | 1 | |
| | R6073 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6074 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6075 | D0GB102JA065 | 1K 1/10W | 1 | |
| | R6076 | D0GB103JA065 | 10K 1/10W | 1 | |
| | R6077 | D0GB473JA065 | 47K 1/10W | 1 | |
| | R6079 | D0GB102JA065 | 1K 1/10W | 1 | |
| | R6080 | D0GB152JA065 | 1.5K 1/10W | 1 | |
| | R6082 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6084 | D0GB104JA065 | 100K 1/10W | 1 | |
| | R6086 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6087 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6088 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6089 | D0GB104JA065 | 100K 1/10W | 1 | |
| | R6090 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6091 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6092 | D0GB472JA065 | 4.7K 1/10W | 1 | |
| | R6093 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6094 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6096 | D0GB472JA065 | 4.7K 1/10W | 1 | |
| | R6097 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6098 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6099 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6100 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6102 | D0GB332JA065 | 3.3K 1/10W | 1 | |
| | R6103 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6104 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6105 | D0GB104JA065 | 100K 1/10W | 1 | |
| | R6106 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6107 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6109 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6110 | D0GB104JA065 | 100K 1/10W | 1 | |
| | R6111 | D0GB104JA065 | 100K 1/10W | 1 | |
| | R6112 | D0GB104JA065 | 100K 1/10W | 1 | |
| | R6113 | D0GB152JA065 | 1.5K 1/10W | 1 | |
| | R6114 | D0GB152JA065 | 1.5K 1/10W | 1 | |
| | R6116 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6117 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6118 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6119 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6123 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6124 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6125 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6126 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6127 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6128 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6129 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6132 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6135 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6136 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6137 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6141 | D0GB472JA065 | 4.7K 1/10W | 1 | |
| | R6142 | D0GB472JA065 | 4.7K 1/10W | 1 | |
| | R6143 | D0GB562JA065 | 5.6K 1/10W | 1 | |
| | R6144 | D0GB222JA065 | 2.2K 1/10W | 1 | |
| | R6148 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6150 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6151 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6152 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6153 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6154 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6318 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6500 | D1BB4302A073 | 43K 1/10W | 1 | |
| | R6504 | D0GB473JA065 | 47K 1/10W | 1 | |
| | R6505 | D0GB472JA065 | 4.7K 1/10W | 1 | |
| | R6506 | D0GB222JA065 | 2.2K 1/10W | 1 | |
| | R6507 | D0GB562JA065 | 5.6K 1/10W | 1 | |
| | R6508 | D0GB472JA065 | 4.7K 1/10W | 1 | |
| | R6509 | D1BB7502A073 | 75K 1/10W | 1 | |
| | R6801 | D0GB1R0JA065 | 1 1/10W | 1 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
| | R6802 | D0GB473JA065 | 47K 1/10W | 1 | |
| | R6803 | D0GB100JA065 | 10 1/10W | 1 | |
| | R6804 | D0GB220JA065 | 22 1/10W | 1 | |
| | R6805 | D0GB470JA065 | 47 1/10W | 1 | |
| | R6806 | D0GB473JA065 | 47K 1/10W | 1 | |
| | R6810 | D0GF390JA048 | 39 1/4W | 1 | |
| | R6811 | D0GF390JA048 | 39 1/4W | 1 | |
| | R6812 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R6813 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R6814 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R7010 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R7012 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R7014 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R7015 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R7018 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R7033 | D0GB103JA065 | 10K 1/10W | 1 | |
| | R7034 | D0GB103JA065 | 10K 1/10W | 1 | |
| | R7102 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R7103 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R7104 | D0GB474JA065 | 470K 1/10W | 1 | |
| | R7106 | D0GA473JA023 | 47K 1/16W | 1 | |
| | R7111 | D0GB103JA065 | 10K 1/10W | 1 | |
| | R7111 | D0GDR00J0004 | 0 1/8W | 1 | |
| | R7151 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R7158 | D0GB330JA065 | 33 1/10W | 1 | |
| | R7173 | D0GB101JA065 | 100 1/10W | 1 | |
| | R7176 | D0GB101JA065 | 100 1/10W | 1 | |
| | R7205 | D0GB102JA065 | 1K 1/10W | 1 | |
| | R7207 | D0GB103JA065 | 10K 1/10W | 1 | |
| | R7208 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R7211 | D0GB823JA065 | 82K 1/10W | 1 | |
| | R7212 | D0GB821JA065 | 820 1/10W | 1 | |
| | R7213 | D0GB272JA065 | 2.7K 1/10W | 1 | |
| | R7214 | D0GB471JA065 | 470 1/10W | 1 | |
| | R7217 | D0GB102JA065 | 1K 1/10W | 1 | |
| | R7218 | D0GB102JA065 | 1K 1/10W | 1 | |
| | R7220 | D0GB105JA065 | 1M 1/10W | 1 | |
| | R7221 | D0GB101JA065 | 100 1/10W | 1 | |
| | R7253 | D0GB101JA065 | 100 1/10W | 1 | |
| | R7254 | D0GB102JA065 | 1K 1/10W | 1 | |
| | R7255 | D0GB103JA065 | 10K 1/10W | 1 | |
| | R7262 | D0GB101JA065 | 100 1/10W | 1 | |
| | R7264 | D0GB101JA065 | 100 1/10W | 1 | |
| | R7265 | D0GB101JA065 | 100 1/10W | 1 | |
| | R7266 | D0GB101JA065 | 100 1/10W | 1 | |
| | R7267 | D0GB102JA065 | 1K 1/10W | 1 | |
| | R7315 | D0GB102JA065 | 1K 1/10W | 1 | |
| | R7321 | D0GB152JA065 | 1.5K 1/10W | 1 | |
| | R7322 | D0GB562JA065 | 5.6K 1/10W | 1 | |
| | R7323 | D0GB332JA065 | 3.3K 1/10W | 1 | |
| | R7325 | D0GB101JA065 | 100 1/10W | 1 | |
| | R7327 | D0GB562JA065 | 5.6K 1/10W | 1 | |
| | R7328 | D0GB273JA065 | 27K 1/10W | 1 | |
| | R7329 | D0GB472JA065 | 4.7K 1/10W | 1 | |
| | R7331 | D0GB473JA065 | 47K 1/10W | 1 | |
| | R7332 | D0GB123JA065 | 12K 1/10W | 1 | |
| | R7335 | D0GB101JA065 | 100 1/10W | 1 | |
| | R7336 | D0GB100JA065 | 10 1/10W | 1 | |
| | R7341 | D0GB122JA065 | 1.2K 1/10W | 1 | |
| | R7349 | D0GB104JA065 | 100K 1/10W | 1 | |
| | R7504 | D0GB222JA065 | 2.2K 1/10W | 1 | |
| | R7505 | D0GB222JA065 | 2.2K 1/10W | 1 | |
| | R7601 | D0GB4R7JA065 | 4.7 1/10W | 1 | |
| | R7650 | D0GB5R6JA065 | 5.6 1/10W | 1 | |
| | R7702 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R7707 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R7712 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R7717 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R7721 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R7731 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R7761 | D0GB225JA065 | 2.2M 1/10W | 1 | |
| | R7853 | D0GB332JA065 | 3.3K 1/10W | 1 | |
| | R7854 | D0GB332JA065 | 3.3K 1/10W | 1 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
| | R7896 | D0GB102JA065 | 1K 1/10W | 1 | |
| | R7901 | D0GB330JA065 | 33 1/10W | 1 | |
| | R7902 | D0GB330JA065 | 33 1/10W | 1 | |
| | R7903 | D0GB223JA065 | 22K 1/10W | 1 | |
| | R7904 | D0GB223JA065 | 22K 1/10W | 1 | |
| | | | CAPACITORS | | |
| | C51 | F1H1H102B047 | 1000pF 50V | 1 | |
| | C61 | F1G1C104A077 | 0.1uF 16V | 1 | |
| | C62 | F1G1C104A077 | 0.1uF 16V | 1 | |
| | C65 | D0GBR00J0004 | 0 1/10W | 1 | |
| | C66 | F1H1H330A230 | 33pF 50V | 1 | |
| | C67 | F1H1H3R0A508 | 3pF 50V | 1 | |
| | C68 | F1J1A106A043 | 10uF 10V | 1 | |
| | C69 | F1J1A106A043 | 10uF 10V | 1 | |
| | C70 | F1H1H101B052 | 100pF 50V | 1 | |
| | C71 | F1H1H101B052 | 100pF 50V | 1 | |
| | C400 | F1H0J1060006 | 10uF 6.3V | 1 | |
| | C401 | F1H0J1060006 | 10uF 6.3V | 1 | |
| | C402 | F1H0J1060006 | 10uF 6.3V | 1 | |
| | C403 | F1H0J1060006 | 10uF 6.3V | 1 | |
| | C404 | F1H1A105A036 | 1uF 10V | 1 | |
| | C405 | F1H0J1060006 | 10uF 6.3V | 1 | |
| | C406 | F1J1E105A287 | 1uF 25V | 1 | |
| | C407 | F1J1E105A287 | 1uF 25V | 1 | |
| | C408 | F1J1E105A287 | 1uF 25V | 1 | |
| | C409 | F1J1E105A287 | 1uF 25V | 1 | |
| | C410 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C411 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C412 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C413 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C414 | F1J1H104A717 | 0.1uF 50V | 1 | |
| | C415 | F1J1H104A717 | 0.1uF 50V | 1 | |
| | C416 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C417 | F1H1H102B047 | 1000pF 50V | 1 | |
| | C418 | F1H1H4700006 | 47pF 50V | 1 | |
| | C419 | F1H1H4700006 | 47pF 50V | 1 | |
| | C420 | F1J1A106A043 | 10uF 10V | 1 | |
| | C421 | F1J1A106A043 | 10uF 10V | 1 | |
| | C422 | F1H1A105A036 | 1uF 10V | 1 | |
| | C424 | F1H1A105A036 | 1uF 10V | 1 | |
| | C425 | F1H1A105A036 | 1uF 10V | 1 | |
| | C426 | F1H1H120A889 | 12pF 50V | 1 | |
| | C427 | F1H1H150A889 | 15pF 50V | 1 | |
| | C428 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C429 | F1H1H103B047 | 0.01uF 50V | 1 | |
| | C430 | F1J1E105A287 | 1uF 25V | 1 | |
| | C431 | F1J1E105A287 | 1uF 25V | 1 | |
| | C432 | F1J1E105A287 | 1uF 25V | 1 | |
| | C433 | F1J1E105A287 | 1uF 25V | 1 | |
| | C434 | F2A1E2210093 | 220uF 25V | 1 | |
| | C435 | F1H1H102B047 | 1000pF 50V | 1 | |
| | C436 | F1H1H102B047 | 1000pF 50V | 1 | |
| | C437 | F1H1H102B047 | 1000pF 50V | 1 | |
| | C438 | F1H1H102B047 | 1000pF 50V | 1 | |
| | C439 | F1H1A105A036 | 1uF 10V | 1 | |
| | C440 | F1H1A105A036 | 1uF 10V | 1 | |
| | C441 | F1H1H181B052 | 180pF 50V | 1 | |
| | C442 | F1H1H680A831 | 68pF 50V | 1 | |
| | C443 | F1H1H680A831 | 68pF 50V | 1 | |
| | C444 | F1H1H680A831 | 68pF 50V | 1 | |
| | C445 | F1H1H181B052 | 180pF 50V | 1 | |
| | C446 | F1H1H102A885 | 1000pF 50V | 1 | |
| | C447 | F1H1E223A161 | 0.022uF 25V | 1 | |
| | C448 | F1H1E223A161 | 0.022uF 25V | 1 | |
| | C449 | F1H1H103B047 | 0.01uF 50V | 1 | |
| | C450 | F1H1H680A831 | 68pF 50V | 1 | |
| | C451 | F1H1H680A831 | 68pF 50V | 1 | |
| | C452 | F1H1H680A831 | 68pF 50V | 1 | |
| | C453 | F1H1A105A036 | 1uF 10V | 1 | |
| | C454 | F1H1H102B047 | 1000pF 50V | 1 | |
| | C455 | F1H1H102B047 | 1000pF 50V | 1 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
| | C458 | F1H1H102B047 | 1000pF 50V | 1 | |
| | C459 | F1H1H102B047 | 1000pF 50V | 1 | |
| | C501 | F1G1C104A077 | 0.1uF 16V | 1 | |
| | C502 | F1G1C104A077 | 0.1uF 16V | 1 | |
| | C941 | F1H1A105A036 | 1uF 10V | 1 | |
| | C945 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C1000 | F1H1A105A036 | 1uF 10V | 1 | |
| | C1001 | F1H1H102B047 | 1000pF 50V | 1 | |
| | C1104 | F1K1C2260001 | 22uF 16V | 1 | |
| | C1106 | F1J1A106A043 | 10uF 10V | 1 | |
| | C1107 | F1K1C2260001 | 22uF 16V | 1 | |
| | C1108 | F1H1H104A783 | 0.1uF 50V | 1 | |
| | C1109 | F1G1C1030008 | 0.01uF 16V | 1 | |
| | C1110 | F1J1H1020015 | 1000pF 50V | 1 | |
| | C1111 | F1H1H682B047 | 6800pF 50V | 1 | |
| | C1113 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C1115 | F1H1H682B047 | 6800pF 50V | 1 | |
| | C1117 | F1H1H102A885 | 1000pF 50V | 1 | |
| | C1118 | F1K1E1060001 | 10uF 25V | 1 | |
| | C1119 | F1H1H473A220 | 0.047uF 50V | 1 | |
| | C1120 | F1H0J4750004 | 4.7uF 6.3V | 1 | |
| | C1121 | F2A1E2210093 | 220uF 25V | 1 | |
| | C1122 | F1J1E4750002 | 4.7uF 25V | 1 | |
| | C1123 | F1H1H222A219 | 2200pF 50V | 1 | |
| | C1125 | F1H1H103B047 | 0.01uF 50V | 1 | |
| | C1126 | F1G1C1030008 | 0.01uF 16V | 1 | |
| | C1129 | F1H1H331A885 | 330pF 50V | 1 | |
| | C1133 | F1H1H102B047 | 1000pF 50V | 1 | |
| | C1135 | F1J1A106A043 | 10uF 10V | 1 | |
| | C1136 | F1K1C2260001 | 22uF 16V | 1 | |
| | C1138 | F1G1C1030008 | 0.01uF 16V | 1 | |
| | C1139 | F1J1H1020015 | 1000pF 50V | 1 | |
| | C1140 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C1141 | F1H1H682B047 | 6800pF 50V | 1 | |
| | C1144 | F2A1E2210093 | 220uF 25V | 1 | |
| | C1150 | F1J1A106A043 | 10uF 10V | 1 | |
| | C1151 | F1J1A106A043 | 10uF 10V | 1 | |
| | C1152 | F1J1A106A043 | 10uF 10V | 1 | |
| | C1153 | F1J1A106A043 | 10uF 10V | 1 | |
| | C1169 | F1H1A105A036 | 1uF 10V | 1 | |
| | C1221 | F1H1C105A118 | 1uF 16V | 1 | |
| | C1222 | F1J1E105A287 | 1uF 25V | 1 | |
| | C1700 | F1H1H221A748 | 220pF 50V | 1 | |
| | C1701 | F1K1V106A010 | 10uF 35V | 1 | |
| ⚠ | C1702 | F0CAF224A105 | 0.22uF | 1 | |
| | C1703 | F2A1E1020114 | 1000uF 25V | 1 | |
| | C1704 | F1H1H102B047 | 1000pF 50V | 1 | |
| | C1705 | F1K2J472A010 | 4700pF 630V | 1 | |
| | C1706 | F2A2D820A404 | 82uF 200V | 1 | |
| | C1708 | F1H1H102B047 | 1000pF 50V | 1 | |
| | C1709 | F1H1H104B047 | 0.1uF 50V | 1 | |
| ⚠ | C1710 | F1BAF471A013 | 470pF | 1 | |
| | C1712 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C1713 | F1K2J221A014 | 220pF 630V | 1 | |
| | C1714 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C1715 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C1716 | F1H1H103B047 | 0.01uF 50V | 1 | |
| | C1719 | F1H1E474A116 | 0.47uF 25V | 1 | |
| | C1720 | F1K3D100A009 | 10pF 2000V | 1 | |
| ⚠ | C1725 | F0CAF104A105 | 0.1uF | 1 | |
| | C1726 | F1H1H391A889 | 390pF 50V | 1 | |
| ⚠ | C1727 | F1BAF1020020 | 1000pF | 1 | |
| ⚠ | C1728 | F1BAF1020020 | 1000pF | 1 | |
| | C2000 | F1H1A105A062 | 1uF 10V | 1 | |
| | C2001 | F1J1A106A041 | 10uF 10V | 1 | |
| | C3000 | F1H1A105A062 | 1uF 10V | 1 | |
| | C3001 | F1J1A106A041 | 10uF 10V | 1 | |
| | C6000 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C6002 | F1H1H101B052 | 100pF 50V | 1 | |
| | C6003 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C6004 | F1H1H102B047 | 1000pF 50V | 1 | |
| | C6005 | F1H1H102B047 | 1000pF 50V | 1 | |
| | C6006 | F1G1A1040006 | 0.1uF 10V | 1 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
| | C6007 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C6008 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C6009 | F1J1A106A043 | 10uF 10V | 1 | |
| | C6012 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C6014 | F1H1H102B047 | 1000pF 50V | 1 | |
| | C6017 | F1H1H102B047 | 1000pF 50V | 1 | |
| | C6019 | F1H1H220A889 | 22pF 50V | 1 | |
| | C6020 | F1H1H102B047 | 1000pF 50V | 1 | |
| | C6021 | F1H1H220A889 | 22pF 50V | 1 | |
| | C6022 | F1H1A224A107 | 0.22uF 10V | 1 | |
| | C6023 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C6024 | F1H1H101B052 | 100pF 50V | 1 | |
| | C6025 | F1H1H101B052 | 100pF 50V | 1 | |
| | C6026 | F1H1H102B047 | 1000pF 50V | 1 | |
| | C6027 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C6028 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C6029 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C6033 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C6034 | F1H1H102B047 | 1000pF 50V | 1 | |
| | C6035 | F1H1A105A036 | 1uF 10V | 1 | |
| | C6036 | F1H1H223B047 | 0.022uF 50V | 1 | |
| | C6037 | F1H1H223B047 | 0.022uF 50V | 1 | |
| | C6039 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C6040 | F1J1A106A043 | 10uF 10V | 1 | |
| | C6046 | F2A1A330A010 | 33uF 10V | 1 | |
| | C6047 | F1H1H331A885 | 330pF 50V | 1 | |
| | C6049 | F1H1H223B047 | 0.022uF 50V | 1 | |
| | C6050 | F1H1H102B047 | 1000pF 50V | 1 | |
| | C6500 | D0GB102JA065 | 1K 1/10W | 1 | |
| | C6501 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C6502 | F2G0J2210020 | 220uF 6.3V | 1 | |
| | C6503 | F1H1A105A036 | 1uF 10V | 1 | |
| | C6801 | F1H1A105A062 | 1uF 10V | 1 | |
| | C6802 | F1J1V1050001 | 1uF 35V | 1 | |
| | C6803 | F1H1E105A153 | 1uF 25V | 1 | |
| | C6804 | F1H1E105A153 | 1uF 25V | 1 | |
| | C6805 | F1J1E105A287 | 1uF 25V | 1 | |
| | C6807 | F1H1E105A153 | 1uF 25V | 1 | |
| | C6808 | F1H1E105A153 | 1uF 25V | 1 | |
| | C6812 | F1J1V1050001 | 1uF 35V | 1 | |
| | C6813 | F1J1E105A287 | 1uF 25V | 1 | |
| | C6814 | F1J1E105A287 | 1uF 25V | 1 | |
| | C7003 | F1J1H101A619 | 100pF 50V | 1 | |
| | C7007 | F1H1H101A889 | 100pF 50V | 1 | |
| | C7031 | F1H1H101A889 | 100pF 50V | 1 | |
| | C7035 | F1J1A106A043 | 10uF 10V | 1 | |
| | C7102 | F1H1A474A107 | 0.47uF 10V | 1 | |
| | C7107 | F1H1H223B047 | 0.022uF 50V | 1 | |
| | C7142 | F1H1H332B047 | 3300pF 50V | 1 | |
| | C7150 | F1H1C104A120 | 0.1uF 16V | 1 | |
| | C7151 | F1H1C104A120 | 0.1uF 16V | 1 | |
| | C7152 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C7154 | F1H1C104A120 | 0.1uF 16V | 1 | |
| | C7155 | F1H1A105A113 | 1uF 10V | 1 | |
| | C7156 | F1H1A105A113 | 1uF 10V | 1 | |
| | C7157 | F1H1H103B047 | 0.01uF 50V | 1 | |
| | C7158 | F1H1C104A120 | 0.1uF 16V | 1 | |
| | C7159 | F1H1C104A120 | 0.1uF 16V | 1 | |
| | C7160 | F1H1C104A120 | 0.1uF 16V | 1 | |
| | C7161 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C7162 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C7163 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C7166 | F1H1H103B047 | 0.01uF 50V | 1 | |
| | C7204 | F1H1H103B047 | 0.01uF 50V | 1 | |
| | C7205 | F1H1H270B052 | 27pF 50V | 1 | |
| | C7206 | F1H1H270B052 | 27pF 50V | 1 | |
| | C7207 | F1J1A106A041 | 10uF 10V | 1 | |
| | C7208 | F1J1A106A041 | 10uF 10V | 1 | |
| | C7213 | F1H1A334A028 | 0.33uF 10V | 1 | |
| | C7216 | F1H1H681A885 | 680pF 50V | 1 | |
| | C7217 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C7218 | F1H1C823A178 | 0.082uF 16V | 1 | |
| | C7221 | F1H1H7R0A503 | 7.0pF 50V | 1 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|---------------------------|-----|---------|
| | C7222 | F1H1H7R0A503 | 7.0pF 50V | 1 | |
| | C7223 | F1J1A106A041 | 10uF 10V | 1 | |
| | C7225 | F1H1H102B047 | 1000pF 50V | 1 | |
| | C7226 | F1H1H102B047 | 1000pF 50V | 1 | |
| | C7230 | F1H1H103B047 | 0.01uF 50V | 1 | |
| | C7231 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C7232 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C7233 | F1H1H103B047 | 0.01uF 50V | 1 | |
| | C7234 | F1H1C104A120 | 0.1uF 16V | 1 | |
| | C7235 | F1J1A106A041 | 10uF 10V | 1 | |
| | C7236 | F1J1A106A041 | 10uF 10V | 1 | |
| | C7237 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C7238 | F1H1C104A120 | 0.1uF 16V | 1 | |
| | C7239 | F1J1A106A041 | 10uF 10V | 1 | |
| | C7241 | F1H1H102B047 | 1000pF 50V | 1 | |
| | C7243 | D0GBR00J0004 | 0 1/10W | 1 | |
| | C7244 | F1H1H153B047 | 0.015uF 50V | 1 | |
| | C7253 | D0GBR00J0004 | 0 1/10W | 1 | |
| | C7263 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C7264 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C7265 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C7267 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C7268 | F1H1H103B047 | 0.01uF 50V | 1 | |
| | C7269 | F1H1A105A113 | 1uF 10V | 1 | |
| | C7315 | F1H1A154A107 | 0.15uF 10V | 1 | |
| | C7334 | F2G1A101A019 | 100uF 10V | 1 | |
| | C7335 | F1H1H103B047 | 0.01uF 50V | 1 | |
| | C7338 | F1H1H153B047 | 0.015uF 50V | 1 | |
| | C7339 | F1H1H182A219 | 1800pF 50V | 1 | |
| | C7341 | F1J1A106A041 | 10uF 10V | 1 | |
| | C7352 | F1H1H122B047 | 1200pF 50V | 1 | |
| | C7367 | F1H1A105A113 | 1uF 10V | 1 | |
| | C7368 | F1H1H103B047 | 0.01uF 50V | 1 | |
| | C7501 | D0GBR00J0004 | 0 1/10W | 1 | |
| | C7502 | F1H1H103B047 | 0.01uF 50V | 1 | |
| | C7601 | F1J1A106A041 | 10uF 10V | 1 | |
| | C7613 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C7615 | F1J1A106A041 | 10uF 10V | 1 | |
| | C7616 | F1J1A106A041 | 10uF 10V | 1 | |
| | C7626 | F1J1A106A041 | 10uF 10V | 1 | |
| | C7670 | F1H1H103B047 | 0.01uF 50V | 1 | |
| | C7725 | F1G1H100A565 | 10pF 50V | 1 | |
| | C7735 | F1G1H100A565 | 10pF 50V | 1 | |
| | C7741 | F1H1H103B047 | 0.01uF 50V | 1 | |
| | C7752 | F1H1H103B047 | 0.01uF 50V | 1 | |
| | C7753 | F1J1A106A041 | 10uF 10V | 1 | |
| | C7754 | F1J1A106A041 | 10uF 10V | 1 | |
| | C7755 | F1J1A106A041 | 10uF 10V | 1 | |
| | C7851 | F1H1H103B047 | 0.01uF 50V | 1 | |
| | C7853 | F1H1H101A889 | 100pF 50V | 1 | |
| | C11371 | F1H1H102B047 | 1000pF 50V | 1 | |
| | | | | | |
| | | | SERVICE FIXTURE AND TOOLS | | |
| | | | | | |
| | SFT1 | REE1712 | 30P FFC (MAIN - CD SERVO) | 1 | |
| | SFT2 | REX1538 | 7P WIRE (MAIN - SMPs) | 1 | |

IPSG1301