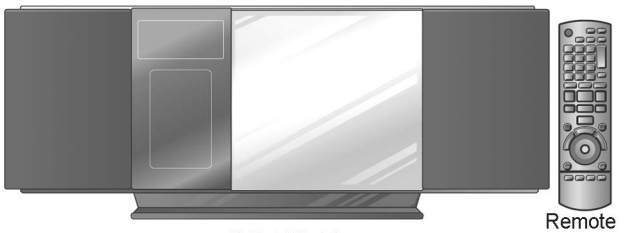
PSG1008010CE
A6

Service Manual

Compact Stereo System

Model No. SC-HC40PC

Product Color: (K)...Black Type



SC-HC40

Remote Control Transmitter

⚠ WARNING

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

IMPORTANT SAFETY NOTICE

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

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Panasonic

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1 Safety Precautions

1.1. General Guidelines

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

1.1.1. Leakage Current Cold Check

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

1.1.2. Leakage Current Hot Check

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

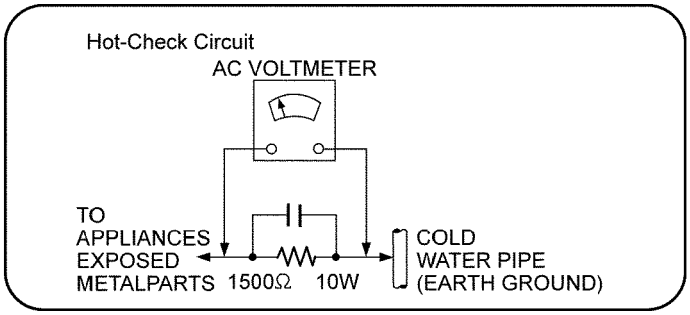


Figure. 1

1.2. Before Repair and Adjustment

Disconnect AC power, discharge unit AC Capacitors as such C5700, C5701, C5702, C5706, C5708 and C5709 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. Caution For Fuse Replacement

CAUTION:

Replace with the same type fuse:
(Manufacturer: Hollyland, Type: 51MS, F1, 3A 125V)

1.4. 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.

1.5. 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.

Table 1

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
⚠	20	RGNX1045T-K	NAME PLATE LABEL	
⚠	55	RYKX1026J-K	REAR CABINET UNIT	
⚠	401	RAE0165T-V	TRAVERSE UNIT ASS'Y	
⚠	A2	K2CB2CB00021	AC CORD	
⚠	A3	RQTX1217-C	OI BOOK (En/Cf)	
⚠	PCB10	REPX0820HA	SMPS P.C.B	(RTL)
⚠	DZ5701	ERZVA5Z471	ZNR	
⚠	L5701	G0B453G00003	FILTER	
⚠	T1000	G4D1A0000117	SWTCHING TRANSFORMER	
⚠	T5701	ETS28BH156AC	TRANSFORMER	
⚠	T5751	ETS19AB221AG	SUB TRANSFORMER	
⚠	PC5720	B3PBA0000402	PHOTO COUPLER	
⚠	RY5701	K6B1AEA00003	RELAY	
⚠	F1	K5D302AQ0003	FUSE	
⚠	FP1000	K5H7512A0010	PROTECTOR	
⚠	TH5701	D4CC11040013	THERMISTOR	
⚠	TH5702	D4CAA5R10001	THERMISTOR	
⚠	P5701	K2AB2B000007	AC INLET	
⚠	C5700	F1BAF1020020	1000pF	
⚠	C5701	ECQU2A334MLA	0.33uF	
⚠	C5702	ECQU2A104MLC	0.1uF	
⚠	C5706	F1BAF1020020	1000pF	
⚠	C5708	F1BAF1020020	1000pF	
⚠	C5709	F1BAF1020020	1000pF	

2 Warning

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

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

1. Immediately before handling any semiconductor component or semiconductor-equiped 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 equiped with ES devices, place the assembly on a conductive surface such as aluminium foil, to prevent electrostatic charge build up or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder remover device. Some solder removal devices not classified as “anti-static (ESD protected)” can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminium foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   Caution :
   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

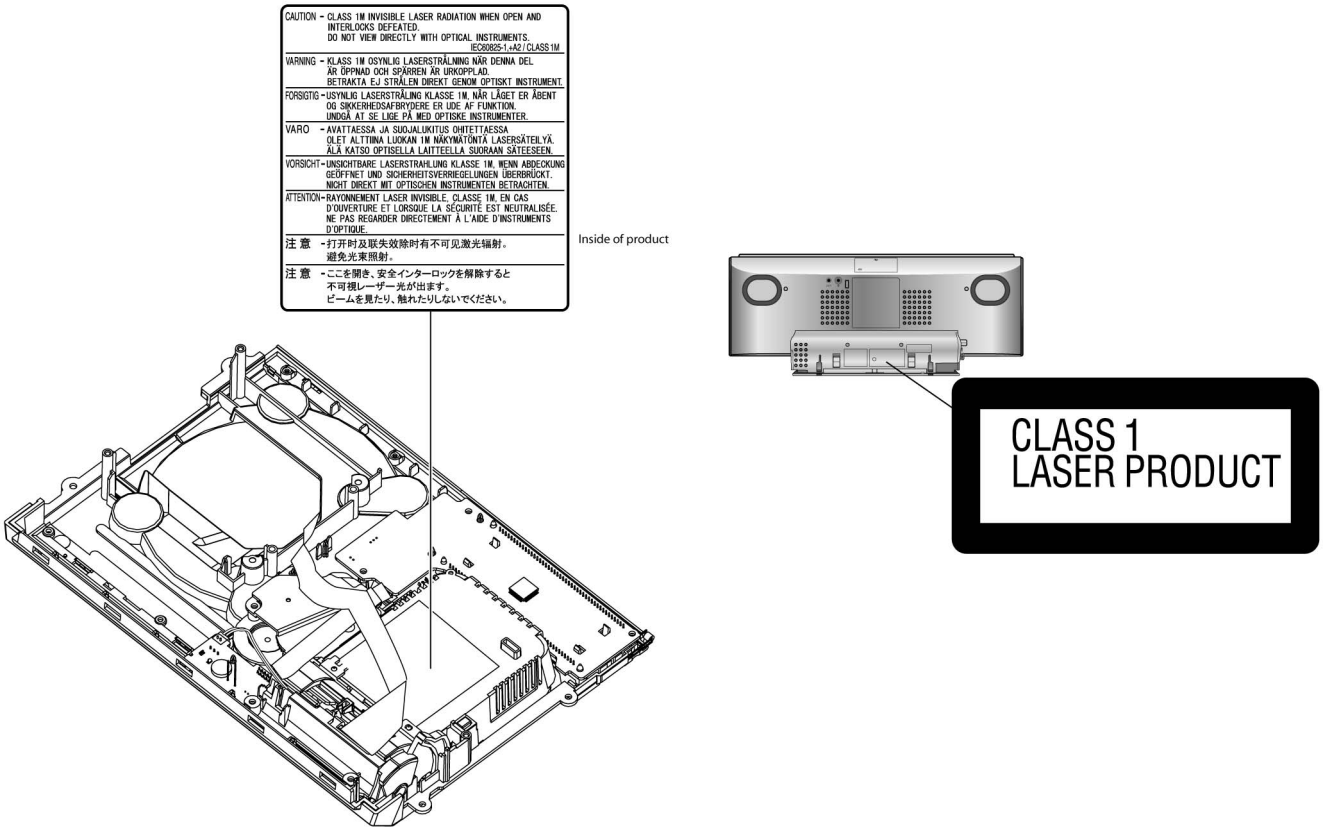
2.2. Precaution of Laser Diode

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

Caution:

This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pickup lens.
Wavelength: 795 nm (CD)
Maximum output radiation power from pickup: 100 μW/VDE
Laser radiation from the pickup unit is safety level, but be sure the followings:

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



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.

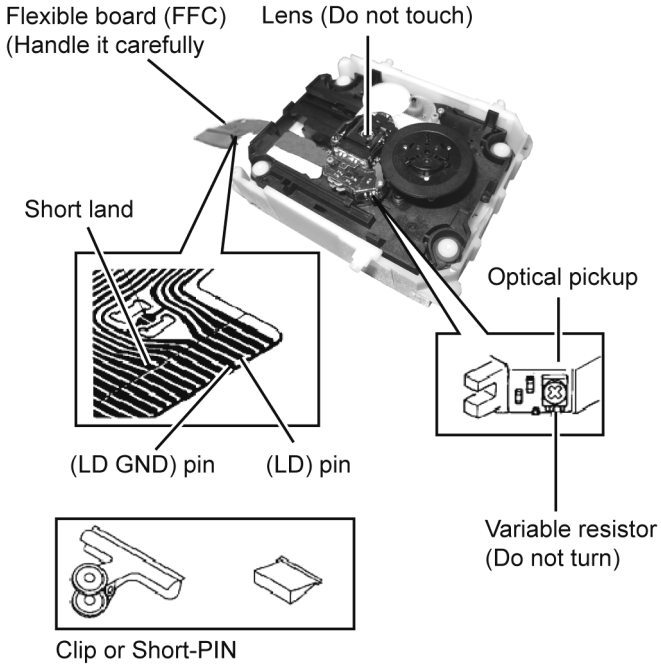


Figure 1

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 (Figure 2).

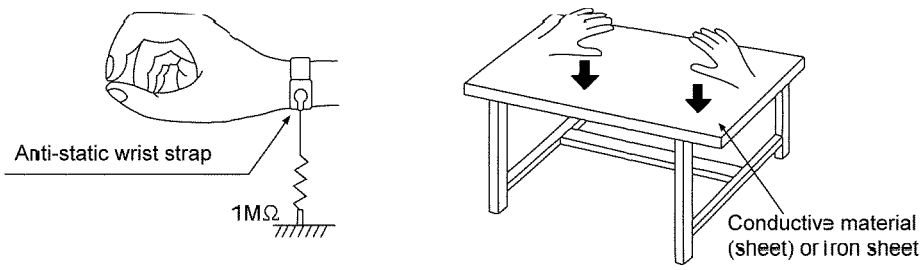


Figure 2

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, (IC801) (RFKWMHC40EG)

4 Specifications

■ Amplifier Section

RMS Output Power	
Front Ch (both ch driven)	20 W per channel (6 Ω), 1 kHz, 10 % THD
Total RMS power	40 W
FTC Output Power Stereo mode	
Front Ch (both ch driven)	15 W per channel (6 Ω), 20 Hz to 20 kHz, 10 % THD
Total FTC Stereo mode power	30 W
Phone jack	
Terminal	Stereo, 3.5 mm (1/8") jack
Aux (Rear)	
Terminal	Stereo, 3.5 mm (1/8") jack

■ Tuner Section

Preset memory	FM 30 stations AM 15 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)
Amplitude Modulation (AM)	
Frequency range	520 kHz to 1710 kHz (10 kHz step)

■ Disc Section

Disc played [8 cm (3") or 12 cm (5")]
(1) CD-Audio (CD-DA)
(2) CD-R/RW (CD-DA, MP3)
(3) MP3*
* MPEG-1 Layer 3, MPEG-2 Layer 3

Pick up	
Wavelength	795 nm
Laser power	CLASS 1
Audio output (Disc)	
Number of channels	FL, FR, 2 channel

■ Speaker Section

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

■ Bluetooth Section

Bluetooth system specification	V2.1 + EDR
Wireless equipment classification	Class 1 (2.5 mW)
Supported profiles	A2DP, AVRCP, HFP
Frequency band	2402 MHz to 2480 MHz (Adaptive Frequency Hopping)
Driving distance	10 m Line of Sight (iPhone 3G, at height 1 m, in MODE 1)

■ USB Port Section

USB Standard	USB 2.0 full speed
Media file format support	MP3 (*.mp3)
USB device file system	FAT 12/16/32
USB port power	Max 500 mA

■ General

Power supply	AC 120 V, 60 Hz
Power consumption	35 W
Dimensions (W x H x D)	500 mm x 201 mm x 102 mm (19 11/16" x 7 29/32" x 4 1/32") (D = 69 mm (2 3/4") minimum)
Mass (Weight)	Approx. 3.0 kg (6.6 lb.)
Operating temperature range	0 °C to +40 °C (+32 °F to +104 °F)
Operating humidity range	35% to 80 % RH (no condensation)

Power consumption in standby mode: 0.05 W (approx)

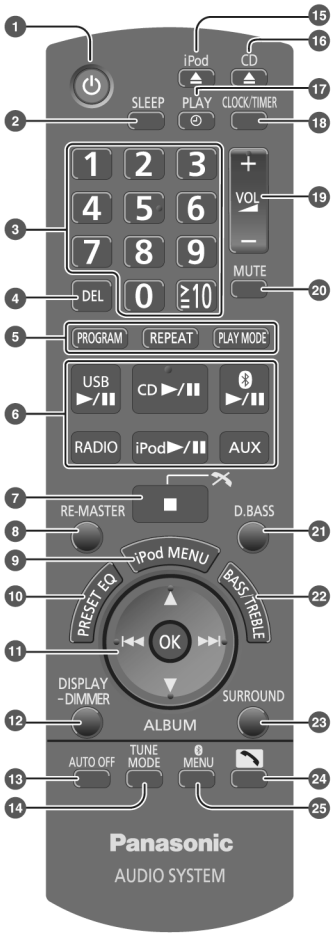
- Specifications are subject to change without notice.
- Total harmonic distortion is measured by the digital spectrum analyzer.

5 Location of Controls and Components

5.1. Main Unit & Remote Control Key Button Operations

Remote control

- Refer to the numbers in parentheses for page reference.

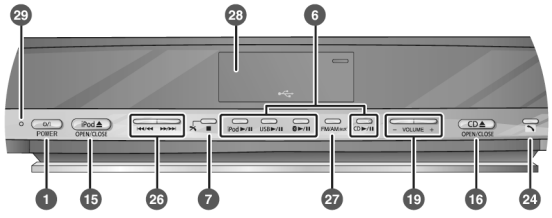


1. **Standby/on switch [⏻], [⏻/I, POWER]**
   Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
2. **[SLEEP]**
3. Numeric buttons **[1-9, 0, ≧10]**
   To select a 2-digit number
   e.g. 16: [≧10] → [1] → [6]
   To select a 3-digit number
   e.g. 226: [≧10] → [≧10] → [2] → [2] → [6]
4. **[DEL]**
5. **[PROGRAM]**
   [REPEAT]
   [PLAY MODE]
6. **[USB ▶/II]**
   [CD ▶/II]
   [ᛒ ▶/II]
   [RADIO]
   [iPod ▶/II]
   [AUX]
7. **[■, ✂]**
8. **[RE-MASTER]**
9. **[iPod MENU]**
10. **[PRESET EQ]**
11. **[▲, ▼]**
    [I◀◀], [▶▶I]
    [OK]
12. **[DISPLAY, –DIMMER]**
    Press and hold to dim the display panel. Press and hold again to cancel.
13. **[AUTO OFF]**
    This function allows you to turn the unit off (except in radio mode) after the unit is left unused for about 30 minutes. The default setting is ON. Press once to cancel it.
14. **[TUNE MODE]**
15. **[▲, iPod], [iPod ▲, OPEN/CLOSE]**
16. **[▲, CD], [CD ▲, OPEN/CLOSE]**
17. **[◴, PLAY]**
18. **[CLOCK/TIMER]**
19. **[+, VOL ◢, –], [– VOLUME +]**
20. **[MUTE]**
    Mutes the sound. Press again to cancel. “MUTE” is also canceled when the volume is adjusted or the unit is turned off.
21. **[D.BASS]**
22. **[BASS/TREBLE]**
23. **[SURROUND]**
24. **[ ]**
25. **[ᛒMENU]**
26. **[I◀◀/◀◀], [▶▶/▶▶I]**
27. **[FM/AM/AUX]**
28. **USB port**
29. **Standby indicator**
30. **Microphone**
31. **Bluetooth indicator**
32. **Remote control signal sensor**
    Aim the remote control at the sensor, avoiding obstacles, at a maximum range of 7 m (23 feet) directly in front of the unit.

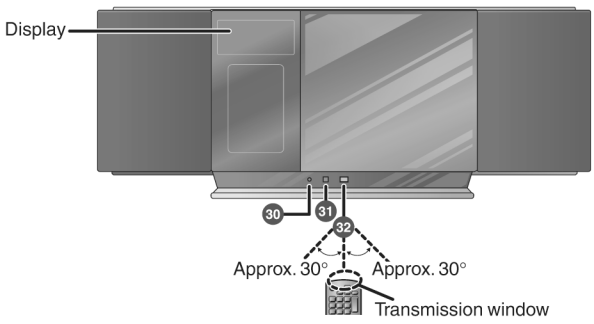
Main unit

- Buttons such as 1 function the same as the remote control. They can be used interchangeably.

Top View

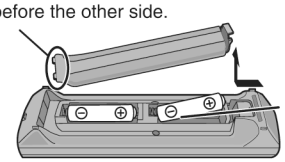


Front View



Preparing the remote control

Place this side in before the other side.



■ Batteries

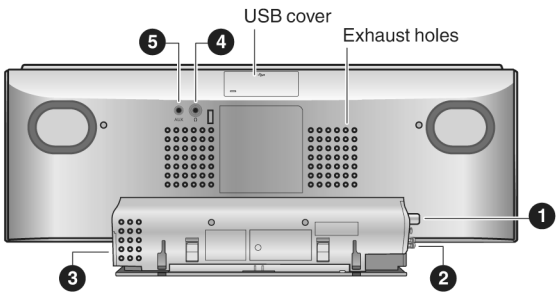
- Use a manganese dry battery or an alkaline dry battery.
- Insert so the poles (+ and –) match those in the remote control.
- Remove if the remote control is not going to be used for a long period of time.
- Store in a cool and dark place.
- Do not heat or expose to flame.
- Do not leave the batteries in an automobile exposed to direct sunlight for a long period of time with doors and windows closed.
- Mishandling of batteries in the remote control can cause electrolyte leakage, which may cause a fire.

■ Do not:

- mix old and new batteries.
- use different types of batteries at the same time.
- take apart or short-circuit the batteries.
- attempt to recharge alkaline or manganese batteries.
- use the batteries if the coverings have been peeled off.

5.2. FM/AM Connections

Back View

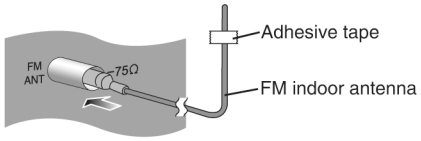


■ Notes on speakers

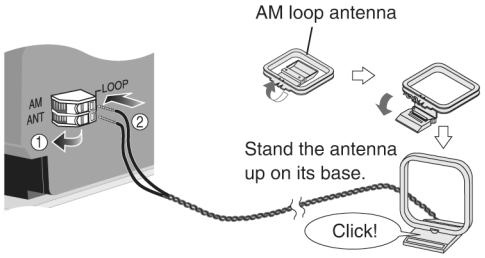
- These speakers do not have magnetic shielding. Do not place them near televisions, personal computers or other devices easily influenced by magnetism.
- The speaker nets cannot be removed.

❶ Connect the FM indoor antenna.

- Tape the antenna to a wall or column, in a position with the least amount of interference.



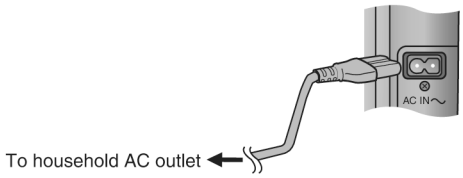
❷ Connect the AM loop antenna.



- Keep the loose antenna cord away from other wires and cords.

❸ Connect the AC power supply cord.

Connect the AC power supply cord after all other connections are complete.



❹ Headphones (not included)

Reduce the volume level and connect the headphones.
Plug type: 3.5 mm (1/8") stereo

- Avoid listening for prolonged periods of time to prevent hearing damage.
- Excessive sound pressure from earphones and headphones can cause hearing loss.
- Listening at full volume for long periods may damage the user's ears.
  Be sure to use the supplied or recommended headphones or earphones.

❺ Portable audio equipment (during AUX mode)

AUX

① **Plug the audio cord into the AUX jack.**
Plug type: 3.5 mm (1/8") stereo
② **Press [AUX] and start playback from the portable audio source.**

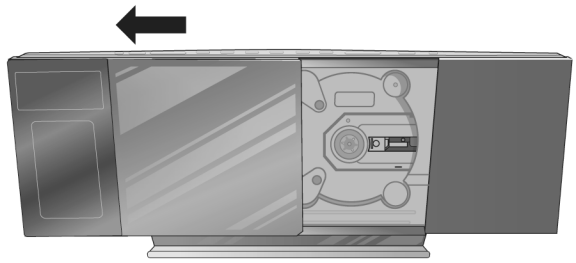
You can select the sound input level of the portable audio equipment.
Press [PLAY MODE] repeatedly to select "HIGH" or "NORMAL".

- Switch the equalizer off or turn the volume of the portable equipment down to reduce the input signal. High level of input signal will distort the sound.
- For details, refer to the instruction manual of the other equipment.
- Cords and equipment are not included.

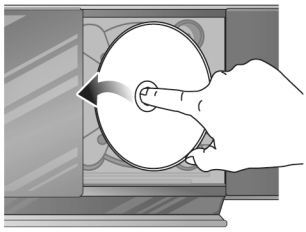
5.3. Disc operations

■ Inserting a disc

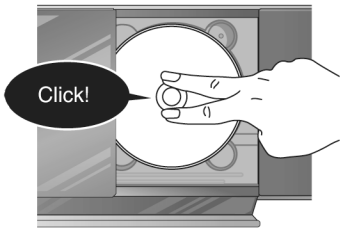
① **Press [⏻] to turn the unit on.**
② **Press [⏏, CD] to open the sliding door.**



③ **With the label of the disc facing towards you, tilt the disc into the disc tray under the sliding door.**



④ **Place the disc onto the spindle in the center and then push the disc down until it clicks into place.**



⑤ **Press [⏏, CD] to close the sliding door.**
Keep fingers away from the sliding door when it is closing to avoid possible minor injuries.

■ Removing a disc

① **Press [⏏, CD] to open the sliding door.**
② **Hold the center and the top right of the disc and pull the top right of the disc to unlock it from the spindle.**
③ **Tilt the disc so as not to touch the sliding door and remove the disc.**

- Damage may occur if the sliding door is forced closed.
- Be careful of CD hitting the sliding door while being removed.

Basic play

① **Press [⏻] to turn the unit on.**
② **Insert the disc to be played (➡ left).**
③ **Press [CD ▶/❚❚] to start play.**

Stop	Press **[■, ⏏]**
Pause	Press **[CD ▶/❚❚]**. Press again to resume play.
Skip track	Press **[⏮]** or **[⏭]**.
Search the current track **(CD)**	Press and hold **[⏮]** or **[⏭]**.
Skip album **(MP3)**	Press **[▲,▼]**.
Direct access play (Play starts with the track you select.)	**CD:** Press the numeric buttons to select the track. **MP3:** ① Press **[▲,▼]** to select the album. ② Press **[⏭]** once and then the numeric buttons to select the track.

Program play

Enables you to program up to 24 tracks.
① **Press [CD ▶/❚❚] and then [■, ⏏].**
② **Press [PROGRAM].**
CD: ③ **Press the numeric buttons to select the track.**
To program more tracks, continue by pressing the numeric buttons.
④ **Press [OK] or [CD ▶/❚❚] to start play.**

MP3: ③ **Press [▲,▼] to select the album.**
④ **Press [⏭] once and then the numeric buttons to select the track.**
⑤ **Press [OK].**
To program more tracks, repeat step ③ to ⑤.
⑥ **Press [CD ▶/❚❚] to start play.**

Cancel program mode	Press **[PROGRAM]** in the stop mode to clear "PGM" indicator from the display.
Replay the program	Press **[PROGRAM]** in the stop mode and then **[CD ▶/❚❚]**.
Check program contents	Press **[⏮]** or **[⏭]** when "PGM" is displayed in the stop mode. To check while programming, press **[PROGRAM]** twice after "PGM" appears and then press **[⏮]** or **[⏭]**.
Delete last programmed track	Press **[DEL]** in the stop mode.
Clear all programmed tracks	Press **[■, ⏏]** in the stop mode. "CLR ALL" is displayed. Within 5 seconds, press the button again to clear all tracks.

- The program memory is cleared when you open the sliding door.

Display function

Press [DISPLAY, –DIMMER] repeatedly during play or pause to view the current track's information.

- Maximum number of displayable characters: approximately 30
- This unit supports ver. 1.0 and 1.1 ID3 tags. Text data that is not supported will not be displayed.

5.3.1. Notes on CD-R and CD-RW

Notes on CD-R and CD-RW

- This unit can play CD-R and CD-RW recorded with CD-DA or MP3.
- Use an audio recording disc for CD-DA and finalize* it when you finish recording.
  * A process performed after recording that enables CD-R or CD-RW players to play audio CD-R and CD-RW.
- The unit may not be able to play some discs due to the condition of the recording.
- Do not use irregularly shaped CDs.
- Do not attach extra labels and stickers.
- Do not use CDs with labels and stickers that are coming off or with excessive adhesive under the labels and stickers.
- Do not attach scratch-proof covers or any other kind of accessories.
- Do not write anything on the CDs.
- Do not clean CDs with liquids (Wipe with a soft and dried cloth).

Note about using a DualDisc

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

Creating MP3 files playable on this unit

- Maximum number of tracks and albums: 999 tracks and 255 albums.
- Compatible compression rate: Between 64 kbps and 320 kbps (stereo). 128 kbps (stereo) is recommended.
- Disc formats: ISO9660 level 1 and level 2 (except for extended formats).
- The time for reading TOC depends on the number of the tracks, folders or folder structures.

Limitations on MP3

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

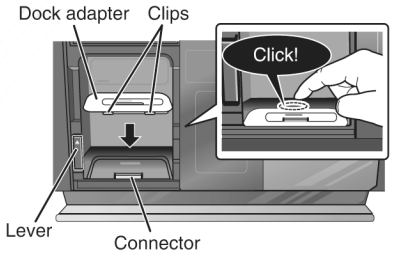
5.4. iPod/iPhone operations

Enjoying audio from iPod or iPhone

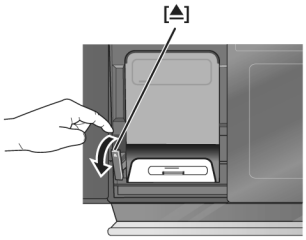
■ Inserting an iPod/iPhone

① **Press [⏏, iPod] to open the sliding door.**

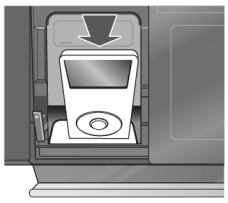
② **Insert the suitable dock adapter (not included) for the iPod/iPhone.**
Insert the side of the iPod/iPhone dock adapter with the clips facing towards you first and then push the opposite side until it clicks into place.



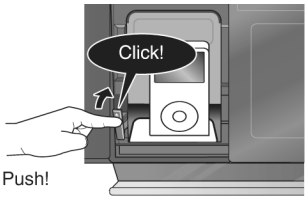
③ **Press [⏏] to unlock the iPod/iPhone dock and then pull the docking switch lever to tilt the iPod/iPhone dock.**



④ **Connect the iPod/iPhone (not included) firmly.**
Be sure to remove the iPod/iPhone from its case.



⑤ **Push the docking switch lever back until it clicks into place.**



⑥ **Press [⏏, iPod] to close the sliding door.**

■ Removing an iPod/iPhone

① **Repeat step ① and ③ (➡ above).**
② **To remove, simply pull the iPod/iPhone straight out to disconnect it.**
③ **Repeat step ⑤ and ⑥ (➡ above).**

- If the iPod/iPhone dock is not tilted when connecting or disconnecting the iPod/iPhone, it may cause damage to the connector.
- When inserting an iPod/iPhone into the unit, be sure to use the dock adapter either supplied with the iPod/iPhone or commercially available from Apple Inc.
- Reduce the volume of the main unit to minimum before connecting or disconnecting the iPod/iPhone.

Play	Press **[iPod ▶/❚❚]** .
Pause	Press **[iPod ▶/❚❚]** or **[■, ✕]**.
Skip track	Press **[⏮]** or **[⏭]**.
Search the current track	Press and hold **[⏮]** or **[⏭]**.
Display iPod/iPhone menu/ return to previous menu	Press **[iPod MENU]** in the play mode. (Remote control only)
Select contents from iPod/iPhone menu	Press **[▲,▼]** and then **[OK]**. (Remote control only)

5.5. Bluetooth operation

About using Bluetooth

What is Bluetooth?
Bluetooth technology allows you to make a wireless connection with another electronic device.

■ Frequency band used
This unit uses the 2.4 GHz frequency band, however other devices may use this frequency as well. To avoid interference with other wireless devices, please follow the cautions listed below.

■ Certification of this device
This unit conforms to frequency restrictions and has received certification based on frequency laws, so a wireless permit is not necessary. However, the following actions are punishable by law:
- Taking apart/modifying the unit.
- Removing specification indications from the rear part of this unit.

■ Usage restrictions
- Wireless transmission and/or usage with all Bluetooth equipped devices is not guaranteed.
- Compatible mobile phones capable of wireless transmission include and comply to standards set by the Bluetooth SIG, Inc. However, if the mobile phone is optimized to meet standard specifications, some functions may work. Even so, depending on the specifications and settings of the mobile phone, a connection may not be established, nor are the methods of operation, display, or operation guaranteed.
- This unit supports Bluetooth security features, however depending on the operating environment and/or settings, this security may not be sufficient. Use caution when transmitting data wirelessly.
- Please be aware that Panasonic accepts no responsibility for data and/or information that may be compromised during a wireless transmission.

■ Range of use
Use this device within an unobstructed 10 m range. The range of usage or perimeter may be shortened depending on any obstructions, devices causing interference, other people in the room, or the construction of the building. Please note that the range mentioned above is not guaranteed.

■ Effects from other devices
- It is possible that this unit may not operate correctly or you may experience other effects of instability such as “broken up” audio, etc. when other devices are placed within close proximity. Therefore, in order to prevent signal interference, we recommend separating this unit from the following devices during use:

  Microwave oven/Wireless LAN/Electronic devices/Audio & Video devices/Office Assistant machines & devices/Digital cordless phones/Fax machines, etc.

- If you live in close proximity to a broadcasting studio and the signal is too strong, the unit may not operate correctly.
- When using a notebook PC with a wireless LAN transmitter, do not use this unit and the wireless LAN at the same time.
- If you are still experiencing noise even outside of the 5 m range of a wireless LAN device, turn the power to the wireless LAN device off.

■ Intended usage limitations
This unit is intended for normal, general use. This unit is not developed or manufactured with the intention of use in “high safety”※ or hazardous occupations. Do not use this unit in these kinds of environments or occupations.

※ The following examples require extreme caution, and can directly result in loss of life, or extreme bodily harm.

e.g.) Nuclear Engineering, and control of a nuclear reaction/automated control of aircraft/air traffic control management/controling movement of heavy freight systems/control of life support or extension systems/control of weapons systems and/or missile launch systems, etc.

Bluetooth operations

Preparation:
- Pair the Bluetooth device with this unit to create an audio connection.

① **Press [BT▶/II] to select Bluetooth.**
When using it for the first time, it enters pairing mode automatically.
② **While this unit is in pairing mode, access the Bluetooth menu of the Bluetooth device and execute a Bluetooth search to find this unit (SC-HC40).**
- Please refer to the Bluetooth device user manual for further instruction on how to connect a Bluetooth device.
- If prompted for the passkey, enter “0000” (For Bluetooth devices which version are incompatible with 2.1+EDR).

③ **If pairing is successful, the paired device’s name will be displayed for 2 seconds. The Bluetooth indicator lights up. The unit is now ready to be used with the Bluetooth device.**

- Make sure the Bluetooth device supports A2DP (Advance Audio Distribution Profile).
- This unit supports the A2DP reception which is copyright-protected by SCMS-T method.
- A2DP enables you to stream stereo sound from an audio source (mobile phone, PC or laptop) to this unit via Bluetooth.
- Depending on the specification or setting of mobile phones, connection may not be established, or operation and display may vary.
- You can register up to 6 devices into this unit. Disconnect the current Bluetooth device and refer to “To register more devices”.
- If you register more than the maximum device number, the oldest device in connection history will be overwritten.
- If a registered device is re-registered, it will be overwritten.

Basic play

① **Press [BT▶/II] to select Bluetooth.**
② **On the Bluetooth device, start playback of a music source. If the device is connected, the music will be heard on this unit.**
(Please refer to the Bluetooth device user manual if required.)
③ **You can also make the following controls with the remote control.**

Play	Press [BT▶/II] to start play.
Stop	Press [■, ✂].
Pause	Press [BT▶/II]. Press again to resume play.
Skip track	Press [◀◀] or [▶▶].

- To utilise these functions, the Bluetooth device must support AVRCP (Audio Video Remote Control Profile).
- This unit cannot transmit data to a Bluetooth device.
- When playing iPod/iPhone by Bluetooth with the main unit, intermittent sound may be experienced if you leave the iPod/iPhone Bluetooth menu screen active or when making Bluetooth registration and connection. If this occurs, please exit the iPod/iPhone Bluetooth menu screen.
- When playing music by iPod/iPhone via Bluetooth connection and the iPod/iPhone is connected into this unit iPod/iPhone dock, the audio will not be re-produced in Bluetooth selector. Switch the selector to iPod to continue enjoying the music.

Input level

You can select the sound input level of the Bluetooth device.

① **Press [PLAY MODE] repeatedly to select “LEVEL 0”, “LEVEL +1” or “LEVEL +2”.**

- Select “LEVEL 0” if the sound is distorted.

Display function

Press [DISPLAY, –DIMMER] repeatedly to view the information of the current connected device.

BLUETOOTH → Connected device name → Connected profiles

5.6. USB operation

USB operations

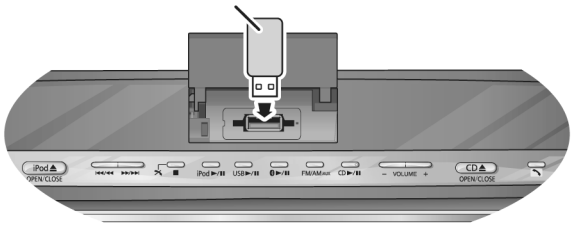
The USB connectivity enables you to connect and play MP3 tracks from USB mass storage class device.

Preparation:

- Before connecting any USB mass storage device to the unit, ensure that the data stored therein has been backed up.
- It is not recommended to use a USB extension cable. The device connected via the cable will not be recognized by this unit.

① **Open the USB cover.**
② **Reduce the volume and connect the USB mass storage device.**

USB mass storage device (not included)



③ **Press [USB ▶/❚❚] to start play.**

Stop	Press [■, ✂]. "RESUME" is displayed. The position is memorized. Press **[USB ▶/❚❚]** to resume play. Press [■, ✂] again to clear the position.
Pause	Press **[USB ▶/❚❚]**. Press again to resume play.
Skip track	Press [I◀◀] or [▶▶I].
Skip album	Press [▲,▼].
Direct access play (Play starts with the track you select.)	① Press **[▲,▼]** to select the album. ② Press **[▶▶I]** once and then the numeric buttons to select the track.

To remove the USB mass storage device, select a source other than "USB".

- Removing the USB mass storage device with it selected as a source can damage the data stored in the device.

For other operating functions, they are similar as those described in "Disc operations".

Compatible devices

Devices which are defined as USB mass storage class:

- USB devices that support bulk only transfer
- USB devices that support USB 2.0 full speed

Notes on USB

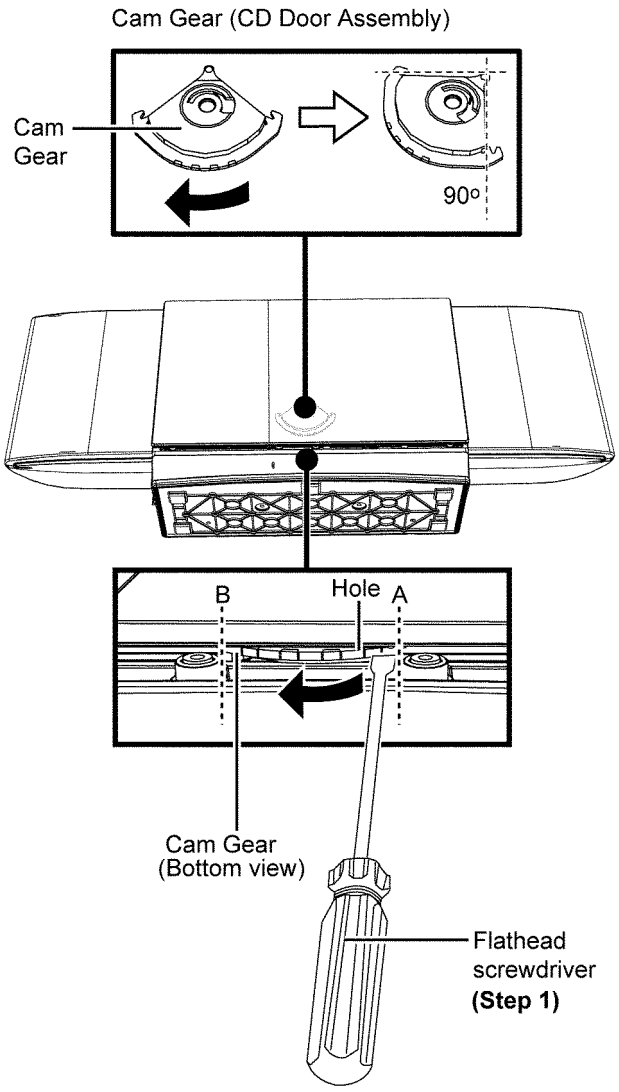
- Supported format: Files with extension ".mp3" or ".MP3"
- CBI (Control/Bulk/Interrupt) is not supported.
- A device using NTFS file system is not supported [Only FAT 12/16/32 (File Allocation Table 12/16/32) file system is supported].
- Depending on the sector size, some files may not work.
- This unit can access up to 255 albums and 2500 tracks.
- The maximum number of tracks in a folder is 999 tracks.
- Only one memory card will be selected when connecting a multiport USB card reader, typically the first memory card inserted.
- Disconnect the USB card reader from the unit when you remove the memory card. Failure to do so may cause malfunction to the device.
- When you connect the digital audio player to the USB port, it charges all the time when the unit is on.

6 Operating Instructions

6.1. CD Door Assembly Jam

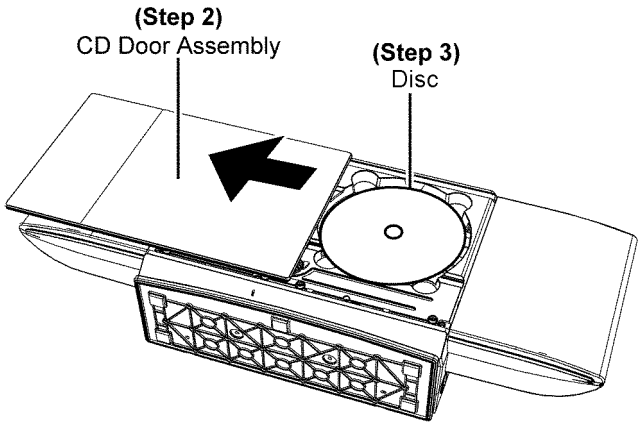
6.1.1. Removing the Disc

Step 1 : Insert a flathead screwdriver into the hole behind the CD Door Assembly and push the Cam Gear from point A to B.



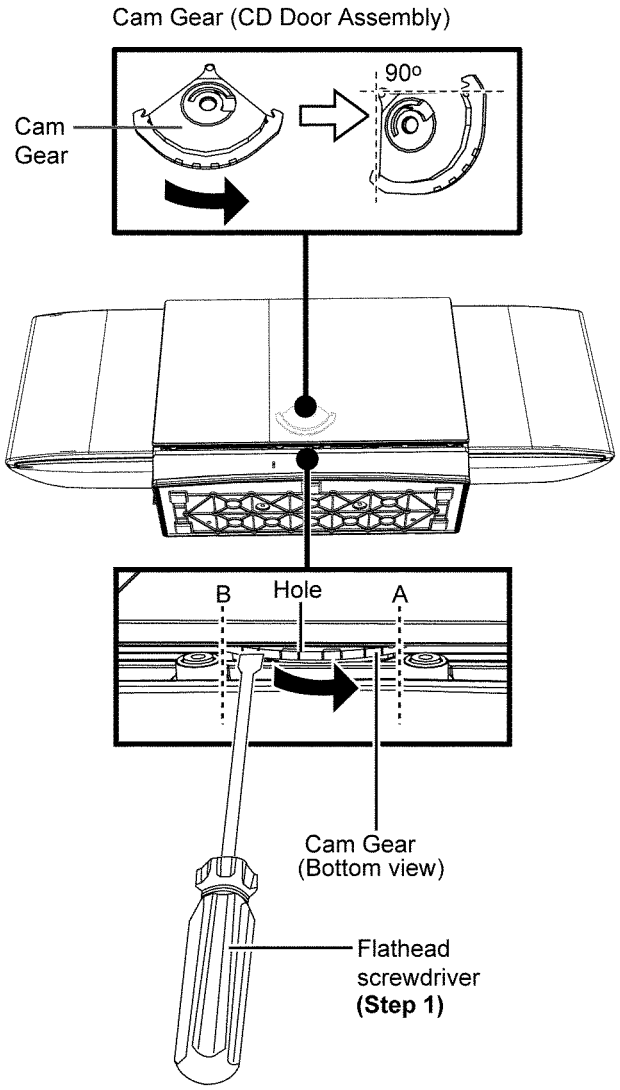
Step 2 : Gently push the CD Door Assembly as arrow shown until the Disc is fully in sight.

Step 3 : Remove the Disc.



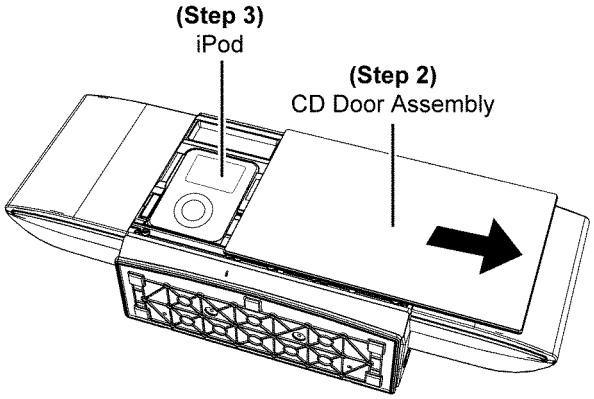
6.1.2. Removing the iPod

Step 1 : Insert a flathead screwdriver into the hole behind the CD Door Assembly and push the Cam Gear from point B to A.



Step 2 : Gently push the CD Door Assembly as arrow shown until the iPod is fully in sight.

Step 3 : Remove the iPod.



7 Self Diagnostic and Doctor Mode Setting

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

7.1. Self Diagnostic Mode

Here is the procedures to enter into Self Diagnostic Mode.

Step 1 : Turn on the unit, and then press and hold [■] button for 2 seconds follow by [▶▶/▶▶|] on the unit.
Step 2 : The display show as follow.

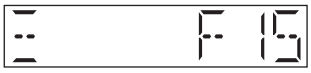
: Error code

To exit the Self Diagnostic Mode

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

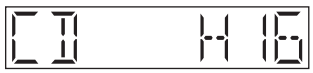
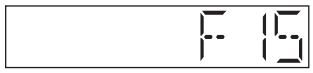
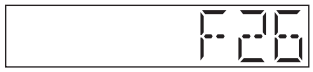
- Press the power button on the main unit.
- Unplug the AC cord.

7.1.1. Self Diagnostic Table

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

7.2. Self Diagnostic Error Code

7.2.1. CD Mechanism Error Code Table

Error Code	Diagnostic Contents	Descriptionof error	Automatic FL Display	Remarks
CD H15	CD Open Abnormal	During operation POS_SW_R On fail to be detected with 3 sec. Error No. shall be clear by force or during cold start.		Press [■] on main unit for next error.
CD H16	CD Closing Abnormal	During operation POS_SW_CEN On fail to be detected with 3 sec. Error No. shall be clear by force or during cold start.		Press [■] on main unit for next error.
F15	CD REST SW Abnormal	CD traverse position intial setting operation failsafe counter (10 s) waiting for REST SW to turn on. 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.

7.2.2. iPod Error Code Table

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

7.2.3. Power Amp Error Code Table

Error Code	Diagnostic Contents	Descriptionof 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.

7.3. Doctor Mode

Here is the procedures to enter into Doctor Mode.
Step 1 : Turn on the unit, and then pressing and holding [■] on main unit in order while press [4] and [7] on the remote control.
Step 2 : The display show as follow.

To exit the Doctor mode

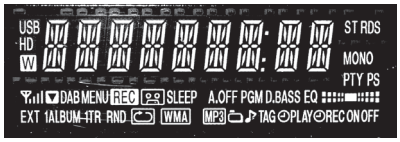
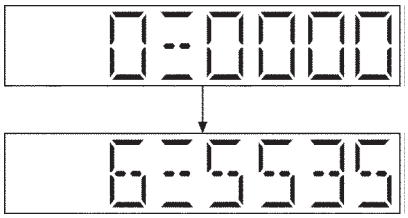
Use either one of the following methods to cancel the Doctor mode.

- Press the power button of the unit.
- Unplug the AC cord.

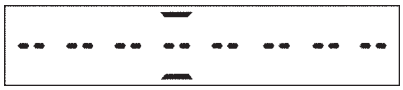
7.3.1. Doctor Mode Table 1

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

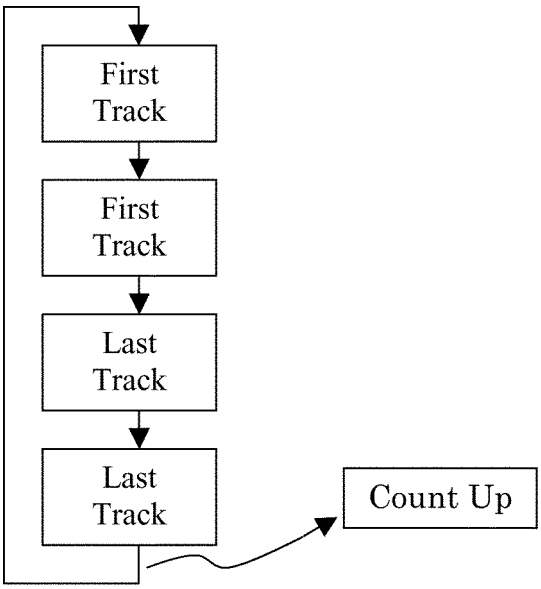
7.3.2. Doctor Mode Table 2

Item		FL Display	Key Operation
Mode Name	Description		Front Key
FL Display Test	To check the FL segments display (All segments will light up)		In Doctor Mode: 1. Press [1] button on remote control. To cancel, press [0] button on remote control. To exit Doctor Mode, press [⏻/I] button on main unit or remote control.
Volume Setting	To check for volume setting during this mode, Bass & treble is set to 0dB & EQ is switch off.		In Doctor Mode: 1. Press [7] button on remote control. To exit Doctor Mode, press [⏻/I] button on main unit or remote control.
			In Doctor Mode: 2. Press [8] button on remote control. To exit Doctor Mode, press [⏻/I] button on main unit or remote control.
			In Doctor Mode: 3. Press [9] button on remote control. To exit Doctor Mode, press [⏻/I] button on main unit or remote control.
Mecha Sliding Panel Reliability	To check the operation of sliding Panel. Sequence as follow : 1. Panel set to close position. 2. CD Open & stop at left position for 1s. 3. CD Close & stop at centre position for 1s.		In Doctor Mode: 1. Press [≧10] follow by [2] & then [1] button on remote control. To cancel, press [0] button on remote control. To exit Doctor Mode, press [⏻/I] button on main unit or remote control.
CD Traverse Unit Test Mode	To check for the traverse unit operation. In this mode, the first & last track is access & read. (TOC). It fails when TOC is not completed by IOS or the traverse is out of focus.	 The counter will increment by 1 untill reach 99999999 	In Doctor Mode: 1. Press [≧10], [1], [2] button on remote control. To cancel, press [0] button on remote control. To exit Doctor Mode, press [⏻/I] button on main unit or remote control. (For more information, please refer to Section 7.3.4.)
CD Auto Adjustment Display	To display result of self adjustment for CD.	 The [NO DISC] display will appear after 3s, 	In Doctor Mode: 1. Press [≧10], [1], [4] button on remote control. To cancel, press [0] button on remote control. To exit Doctor Mode, press [⏻/I] button on main unit or remote control.

7.3.3. Doctor Mode Table 3

Item		FL Display	Key Operation
Mode Name	Description		Front Key
Cold Start	To activate cold start upon next AC power up.	 The [NO DISC] display will appear after 3s, 	In Doctor Mode: 1. Press [SLEEP] button on remote control. To exit Doctor Mode, press **[⏻/I]** button on main unit or remote control.

7.3.4. CD Traverse Test (Traverse)



7.4. Sales Demonstration Lock Function Mode

7.4.1. Setting

Here is the procedures to enter into Sales Demonstration Lock.

Step 1 : Turn on the unit.

Step 2 : Select to iPod ►/❚❚ mode.

Step 3 : Press and hold [iPod⏏(OPEN/CLOSE)] button follow by [iPod►/❚❚] button on the unit for 5 sec.

Step 4 : The display will show upon entering into this mode.

Note : iPod⏏(OPEN/CLOSE) button is invalid and the main unit displays “LOCKED” while the lock function mode is entered.

7.4.2. Cancellation

Step 1 : Select to [CD ►/❚❚] (CD mode).

Step 2 : Set to Volume 19.

Step 3 : Press and hold [iPod⏏(OPEN/CLOSE)] button follow by [iPod►/❚❚] button on the unit for 5 sec.

Step 4 : The display will show after exit from this mode.

8 Service Fixture & Tools

Prepare service tools before process service position.

Service Tools		Remarks
CD Servo P.C.B. (CN7002) - Vertical Main P.C.B. (CN7002)	RFKZHC30K1 (25P FFC)	
Panel P.C.B. (CN6801) - Vertical Main P.C.B. (CN900)	RFKZHC30K2 (25P FFC)	

9 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

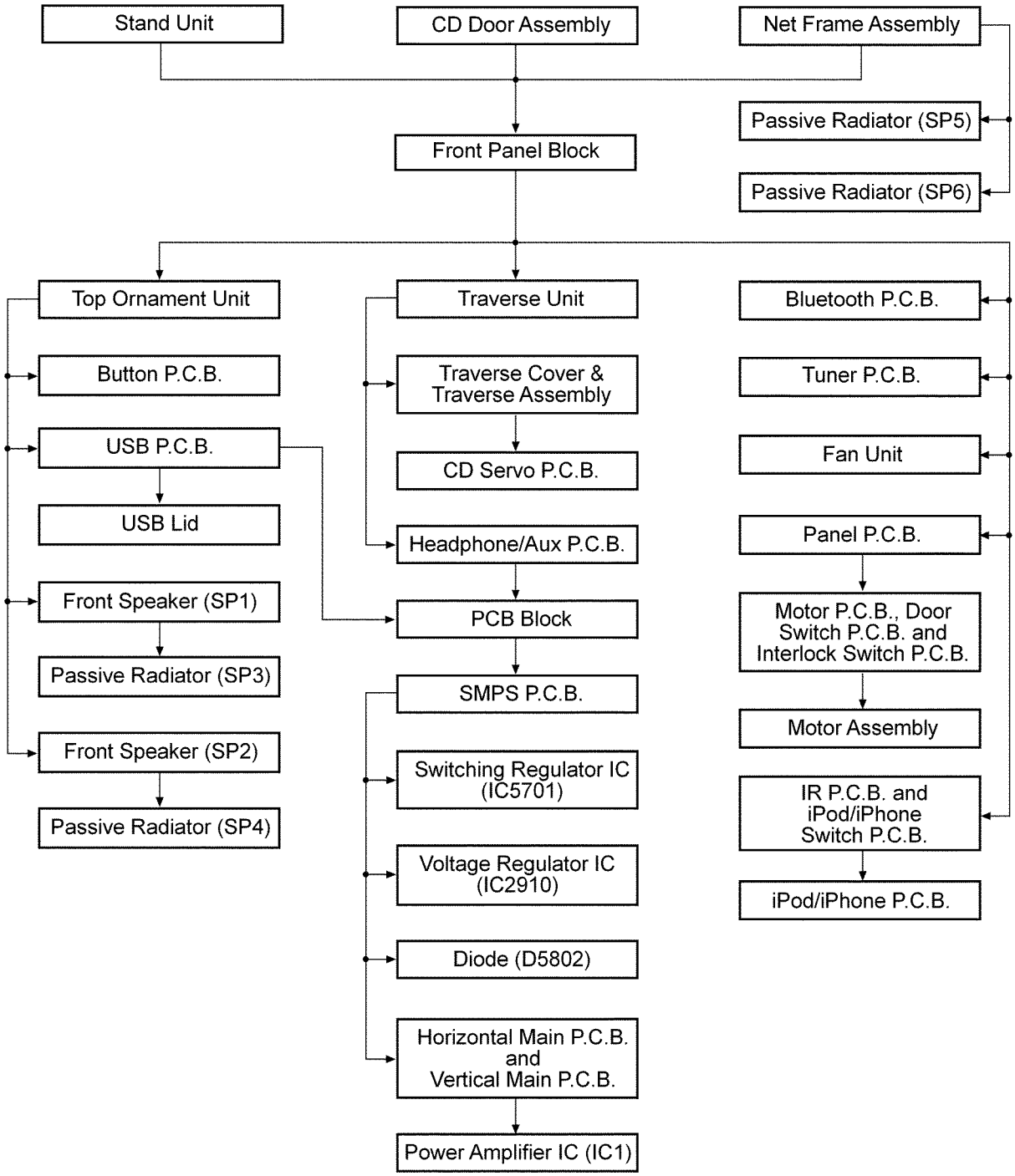
- **During disassembly and assembly, please ensure proper service tools, equipments or jigs is being used.**
- **During replacement of component parts, please refer to the section of "Replacement Parts List" as described in the service manual.**
- **Select items from the following indexes when disassembly or replacement are required.**

- **Disassembly of Stand Unit**
- **Replacement of CD Door Assembly**
- **Disassembly of Net Frame Assembly**
- **Disassembly of Front Panel Block**
- **Disassembly of Top Ornament Unit**
- **Disassembly of Button P.C.B.**
- **Disassembly of Passive Radiator (SP5)**
- **Disassembly of Passive Radiator (SP6)**
- **Disassembly of Front Speaker (SP1)**
- **Disassembly of Front Speaker (SP2)**
- **Disassembly of Passive Radiator (SP3)**
- **Disassembly of Passive Radiator (SP4)**
- **Disassembly of Traverse Uint**
- **Disassembly of Traverse Cover & Traverse Assembly**
- **Disassembly of CD Servo P.C.B.**
- **Disassembly of USB P.C.B.**
- **Disassembly of USB Lid**
- **Disassembly of Headphone/Aux P.C.B.**
- **Disassembly of PCB Block**
- **Disassembly of SMPS P.C.B.**
- **Replacement of Switching Regulator IC (IC5701)**
- **Replacement of Voltage Regulator IC (IC2910)**
- **Replacement of Diode (D5802)**
- **Disassembly of Horizontal Main P.C.B. and Vertical Main P.C.B.**
- **Replacement of Power Amplifier IC (IC1)**
- **Disassembly of Bluetooth P.C.B.**
- **Disassembly of Tuner P.C.B.**
- **Disassembly of Fan Unit**
- **Disassembly of Panel P.C.B.**
- **Disassembly of IR P.C.B. and iPod/iPod Switch P.C.B.**
- **Disassembly of Motor P.C.B., Door Switch P.C.B. and Interlock Switch P.C.B.**
- **Disassembly of Motor Assembly**
- **Disassembly of iPod/iPhone P.C.B.**

9.1. Disassembly flow chart

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

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



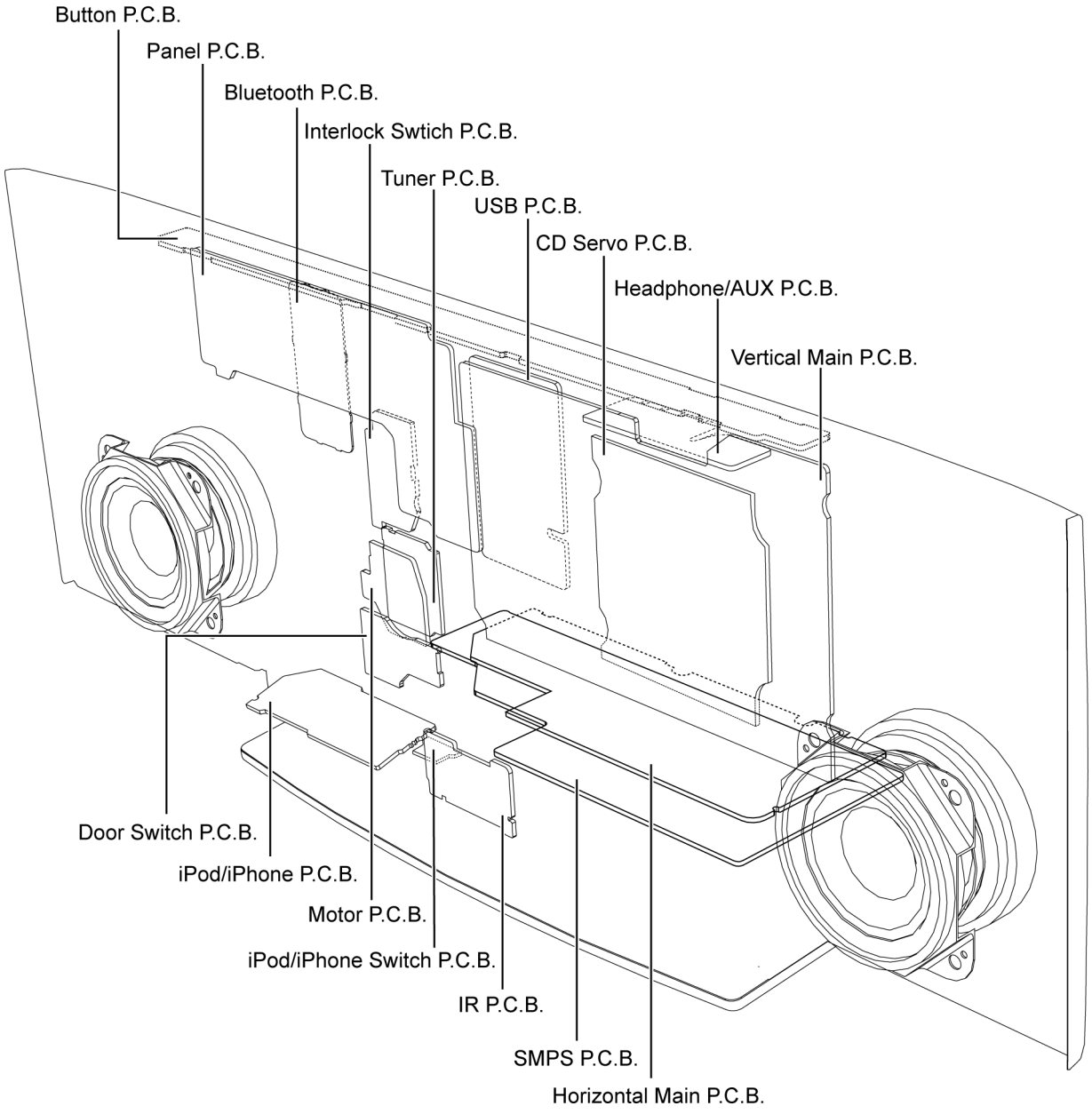
9.2. Types of Screws

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

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

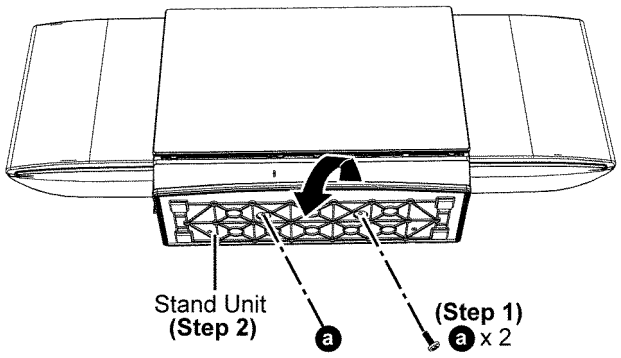
- ⓐ : XTB3+8JFJK
- ⓑ : XTB3+10JFJK
- ⓒ : RHD26045-L
- ⓓ : VHD1224-1
- ⓔ : RHD26016-1L
- ⓕ : XTN2+6GFJ
- ⓖ : RHDX301002
- ⓗ : XTB3+8JFJ
- ⓘ : RHD14136
- ⓙ : XSN2+4FJ
- ⓚ : RHD14129

9.3. Main Parts Location Diagram



9.4. Disassembly of Stand Unit

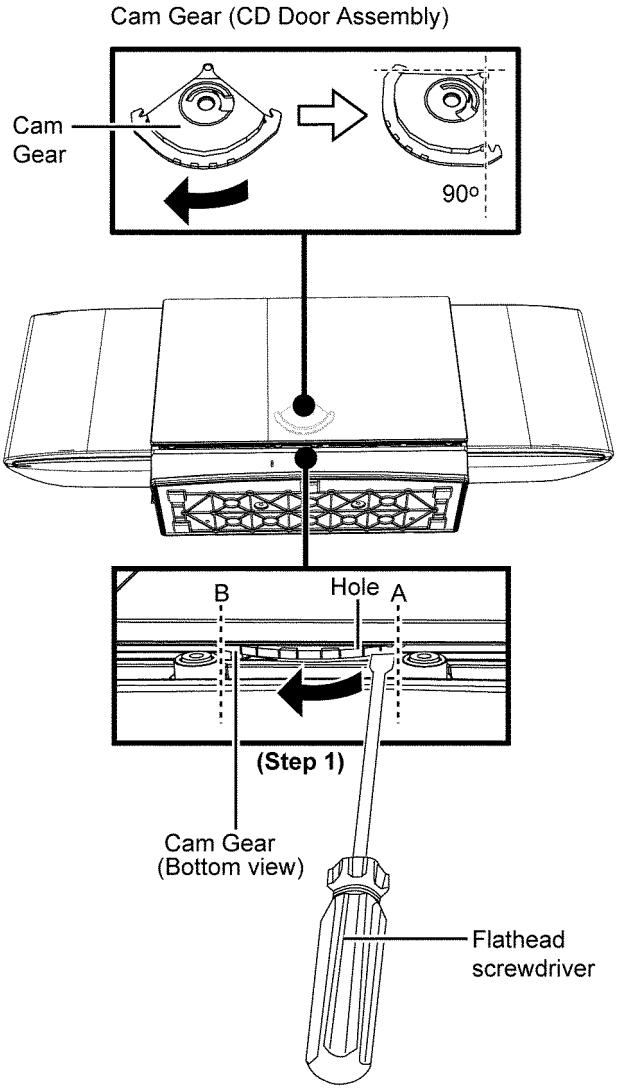
Step 1 : Remove 2 screws.
Step 2 : Lift up to remove the Stand Unit.



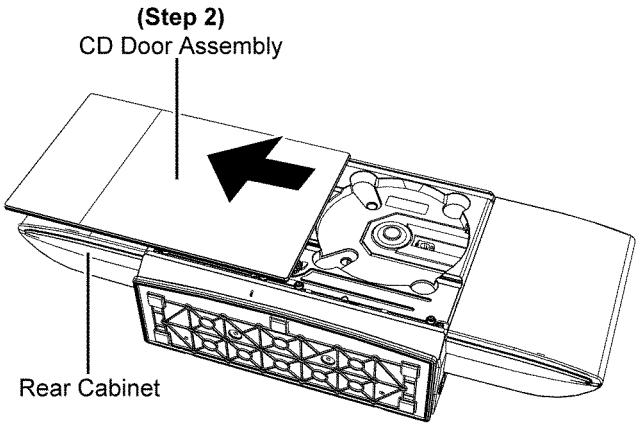
9.5. Replacement of CD Door Assembly

9.5.1. Disassembly of CD Door Assembly

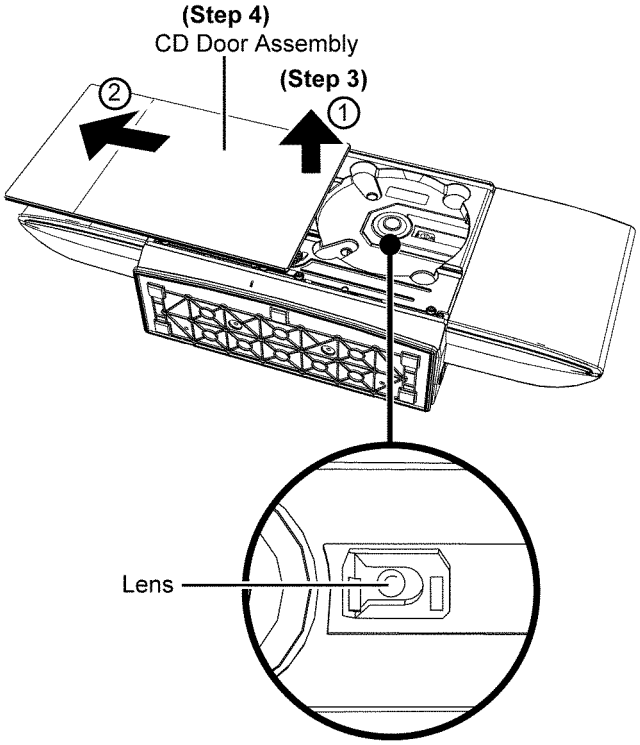
Step 1 : Insert a flathead screwdriver into the hole behind the CD Door Assembly and push the Cam Gear from point A to B.



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

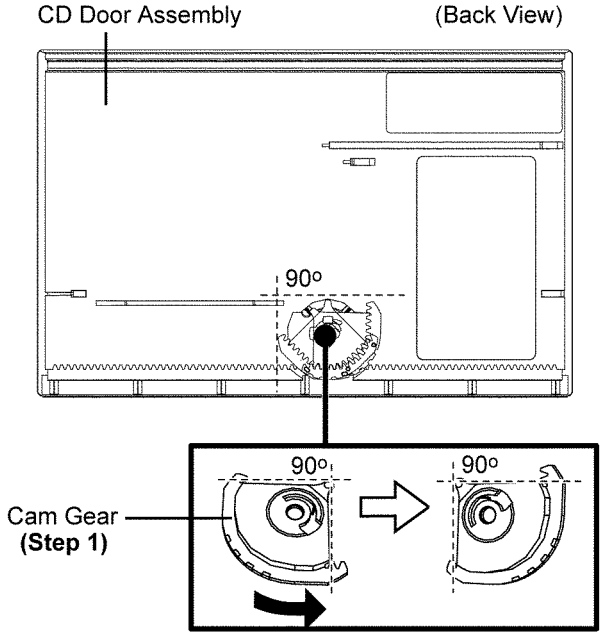


Step 3 : Lift up the CD Door Assembly slightly as arrow ① shown and push it as arrow ② shown.
Step 4 : Remove the CD Door Assembly.
Caution : During assembling / disassembling, avoid touching the lens of the Traverse Unit.



9.5.2. Assembly of CD Door Assembly

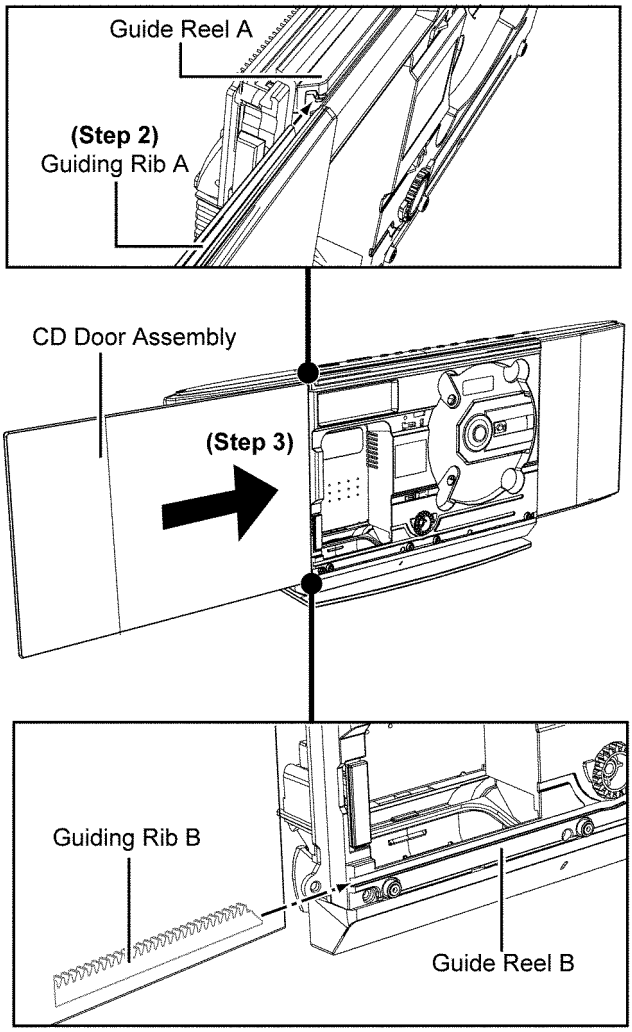
Step 1 : Turn the Cam Gear as diagram shown.



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

Step 3 : Gently slide the CD Door Assembly until it is fully closed.

Caution : Do not exert strong force to slide the CD Door Assembly as it may damage the gear. If the CD Door Assembly cannot be closed fully or half-way, push the CD Door Assembly in opposite direction and Repeat (Step 2 & Step 3).

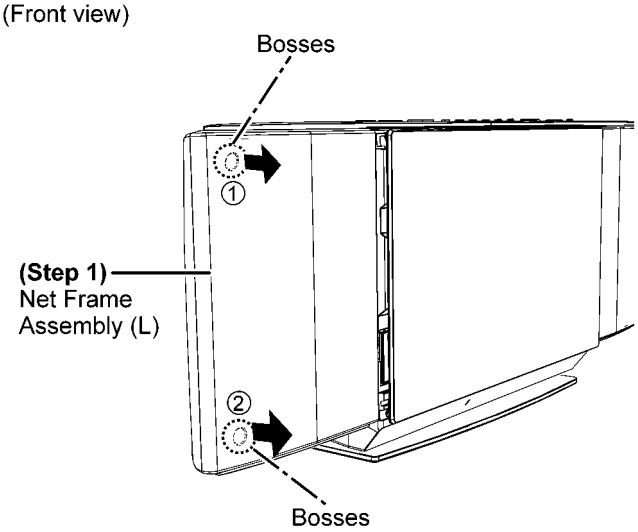


9.6. Disassembly of Net Frame Assembly

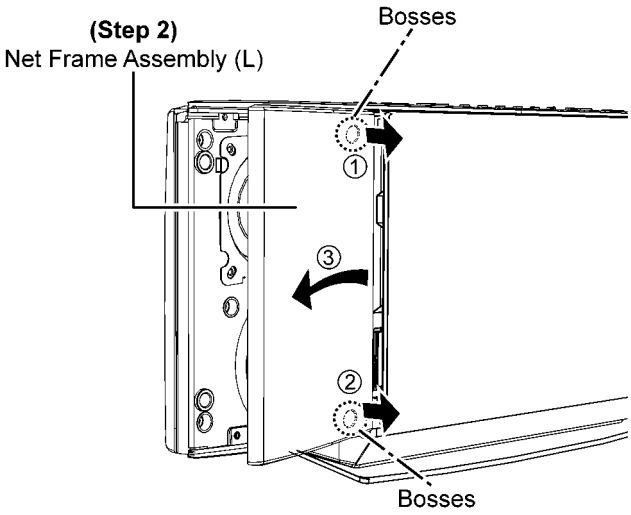
9.6.1. Disassembly of Net Frame Assembly (L)

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

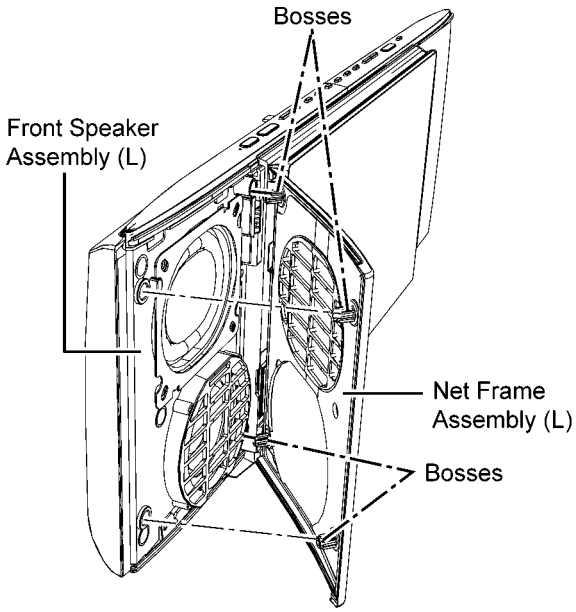
Caution : During assembling, ensure the net frame assembly (L) is seated properly



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



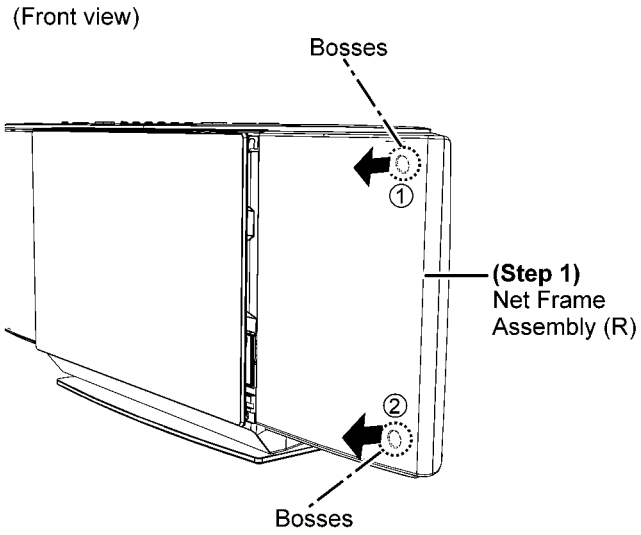
Caution : During assembling, ensure that the bosses are aligned to their respective holes in Front Speaker Assembly (L) as shown.



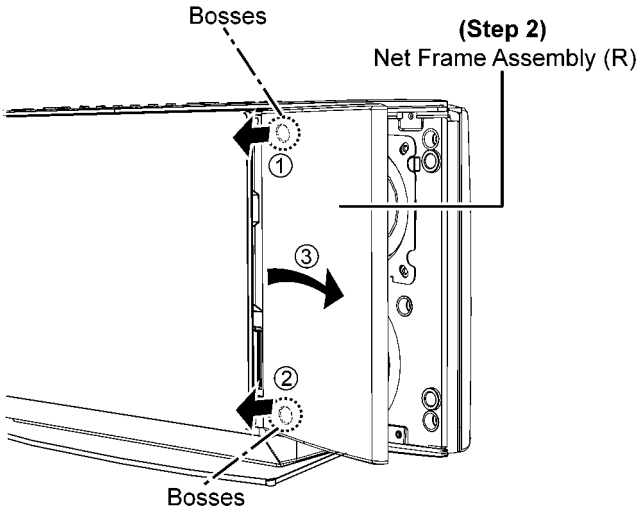
9.6.2. Disassembly of Net Frame Assembly (R)

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

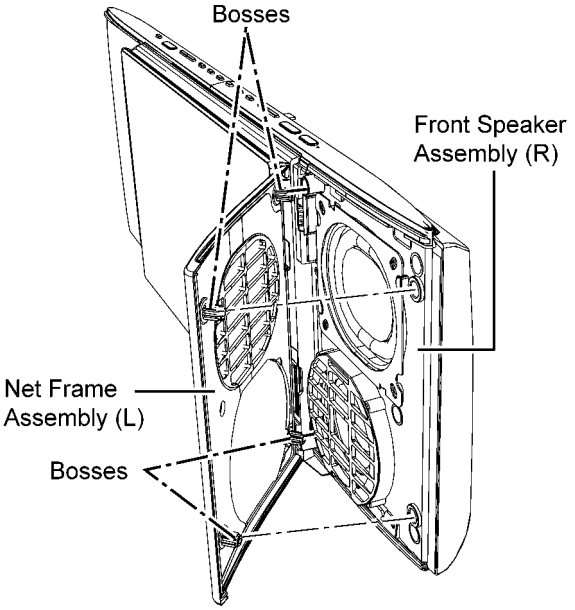
Caution : During assembling, ensure the net frame assembly (R) is seated properly



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



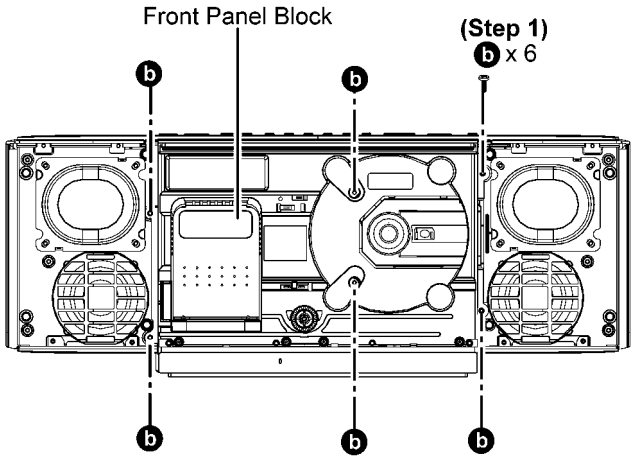
Caution : During assembling, ensure that the bosses are aligned to their respective holes in Front Speaker Assembly (R) as shown.



9.7. Disassembly of Front Panel Block

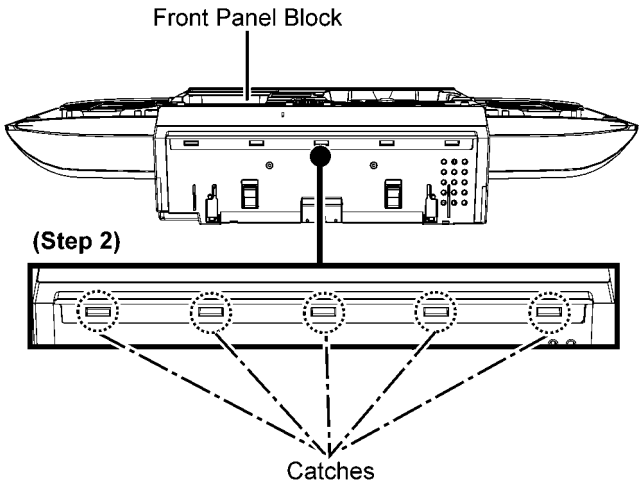
- Refer to “Disassembly of Stand Unit”.
- Refer to “Disassembly of CD Door Assembly”.
- Refer to “Disassembly of Net Frame Assembly”.

Step 1 : Remove 6 screws.

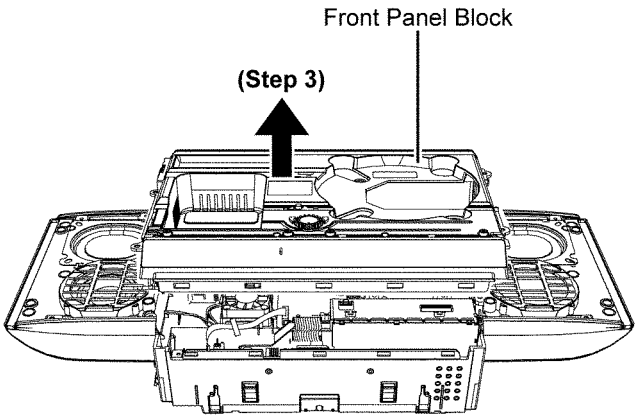


Step 2 : Gently release the 5 catches on the Front Panel Block.

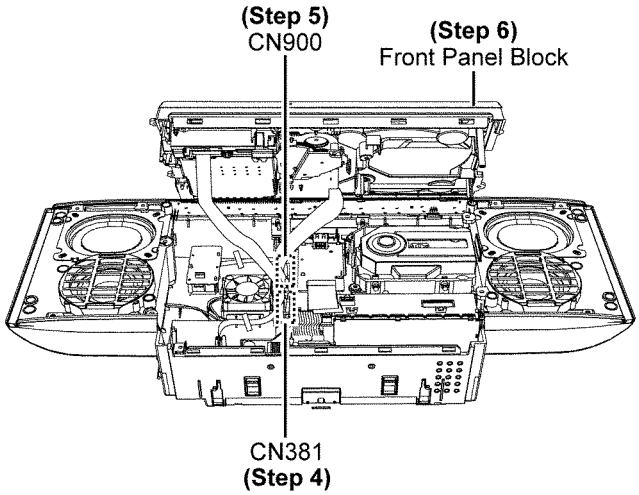
(Bottom View)



Step 3 : Slightly lift up the Front Panel Block.



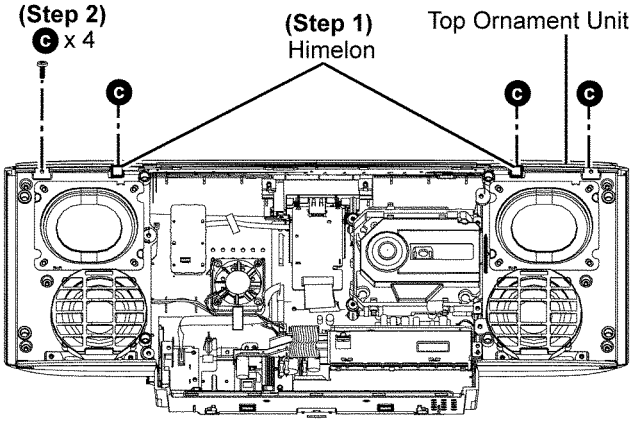
Step 4 : Detach 15P FFC at the connector (CN381) on the Vertical Main P.C.B..
Step 5 : Detach 25P FFC at the connector (CN900) on the Vertical Main P.C.B..
Step 6 : Remove Front Panel Block.



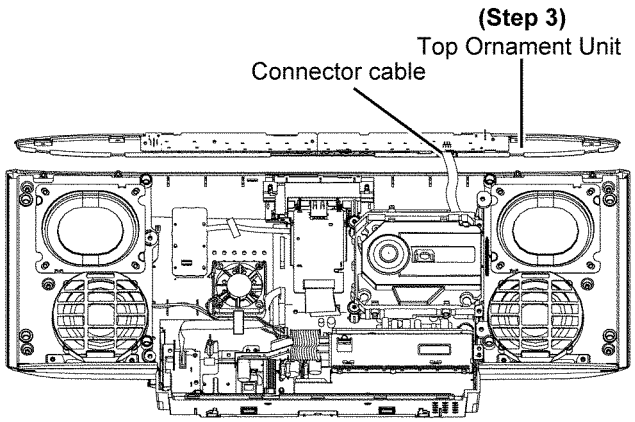
9.8. Disassembly of Top Ornament Unit

- Refer to “Disassembly of Stand Unit”.
- Refer to “Disassembly of CD Door Assembly”.
- Refer to “Disassembly of Net Frame Assembly”.
- Refer to “Disassembly of Front Panel Block”.

Step 1 : Lift up the himelons.
Step 2 : Remove 4 screws.
Caution : Replace the himelons if they are torn during disassembling.



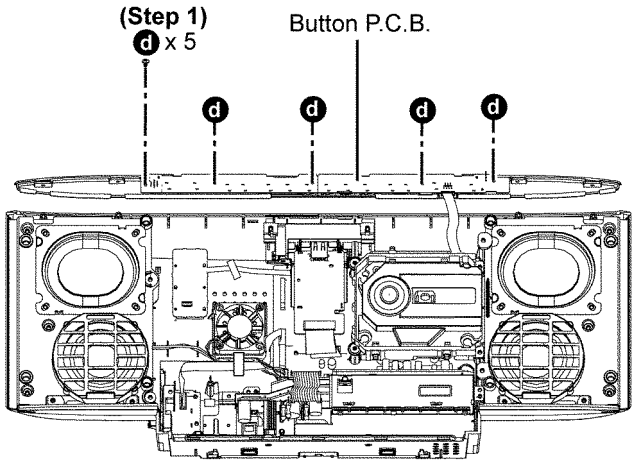
Step 3 : Lift up the Top Ornament Unit.
Caution : Avoid applying strong force to pull the Top Ornament Unit or it may lead to the broken of connecting cable.



9.9. Disassembly of Button P.C.B.

• Refer to “Disassembly of Top Ornament Unit”.

Step 1 : Remove 5 screws.

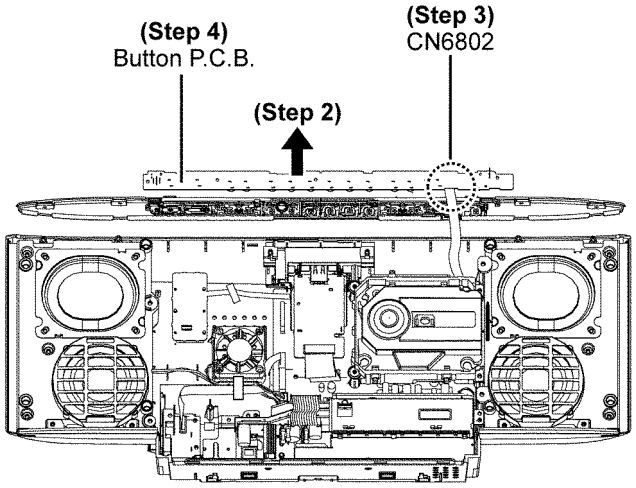


Step 2 : Lift up the Button P.C.B..

Step 3 : Detach 7P FFC at the connector (CN6802) on the Button P.C.B..

Step 4 : Remove Button P.C.B. as arrow shown.

Caution : During assembling, ensure the Button P.C.B. is seated properly on the locator.

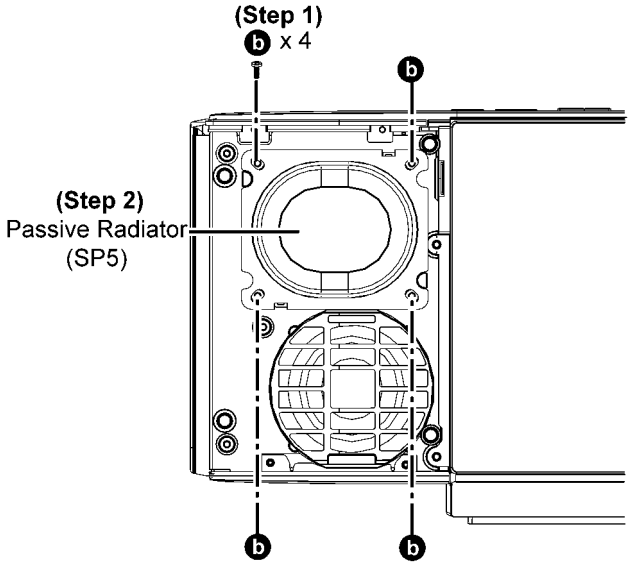


9.10. Disassembly of Passive Radiator (SP5).

• Refer to “Disassembly of Net Frame Assembly (L)”.

Step 1 : Remove 4 screws.

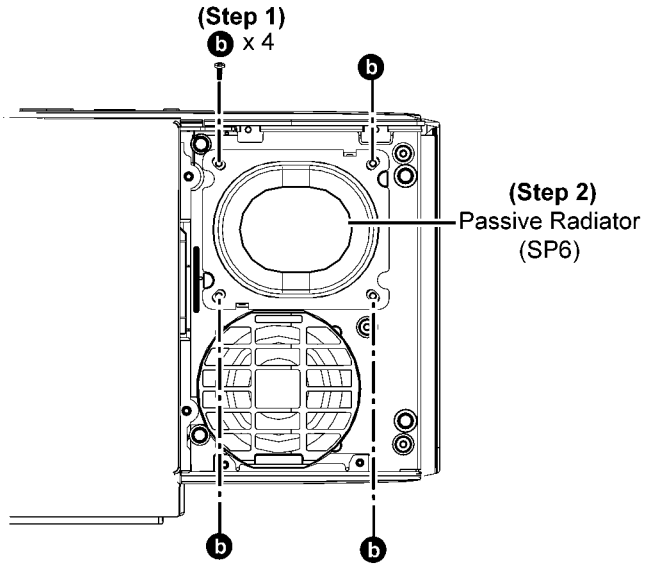
Step 2 : Remove Passive Raidator (SP5).



9.11. Disassembly of Passive Radiator (SP6).

• Refer to “Disassembly of Net Frame Assembly (R)”.

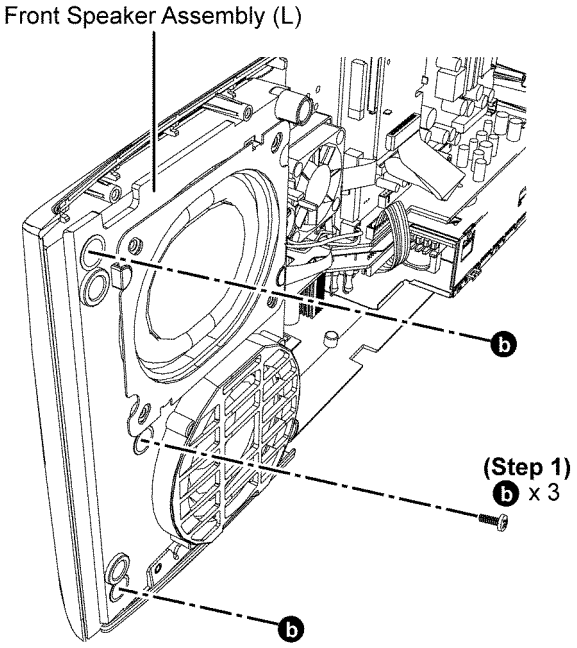
Step 1 : Remove 4 screws.
Step 2 : Remove Passive Raidator (SP6).



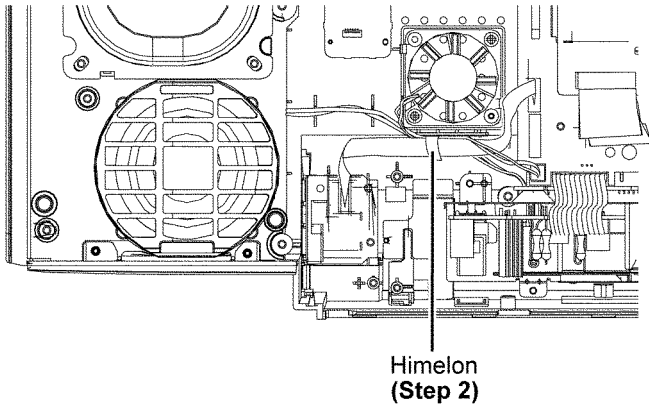
9.12. Disassembly of Front Speaker (SP1).

• Refer to “Disassembly of Stand Unit”.
• Refer to “Disassembly of CD Door Assembly”.
• Refer to “Disassembly of Net Frame Assembly”.
• Refer to “Disassembly of Front Panel Block”.
• Refer to “Disassembly of Top Ornament Unit”.

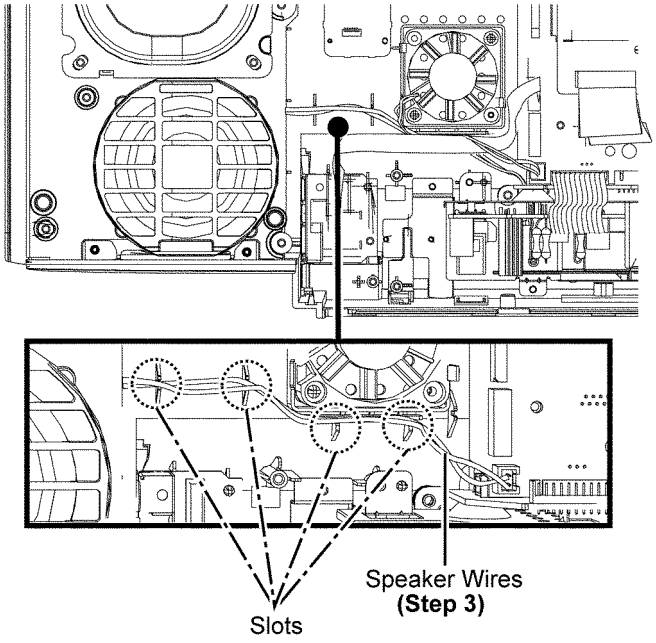
Step 1 : Remove 3 screws.



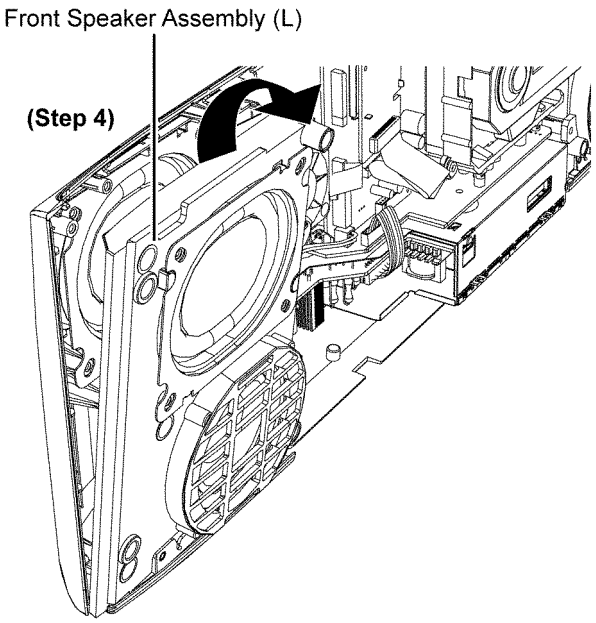
Step 2 : Lift up the himelon.
Caution : Replace the himelons if they are torn during disassembling.



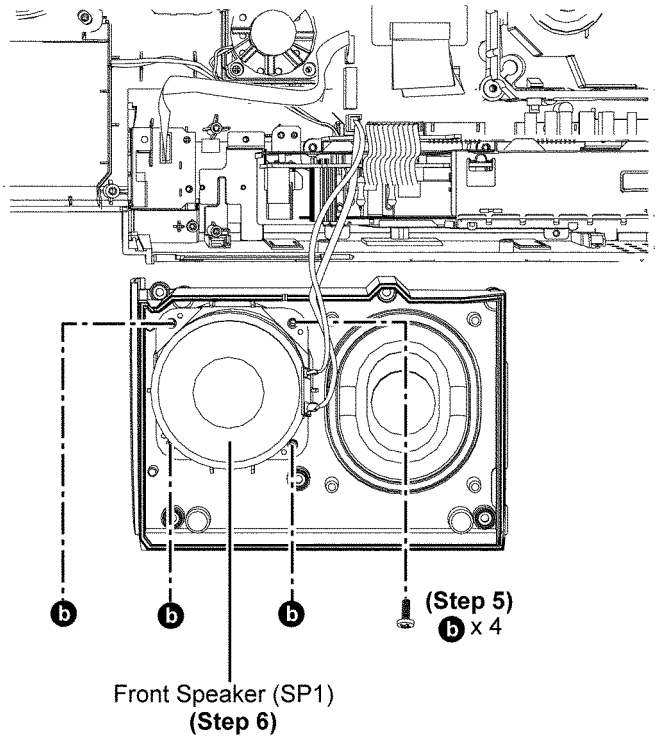
Step 3 : Remove the speaker wires from the slots.
Caution : Ensure the speaker wires is properly dressed.



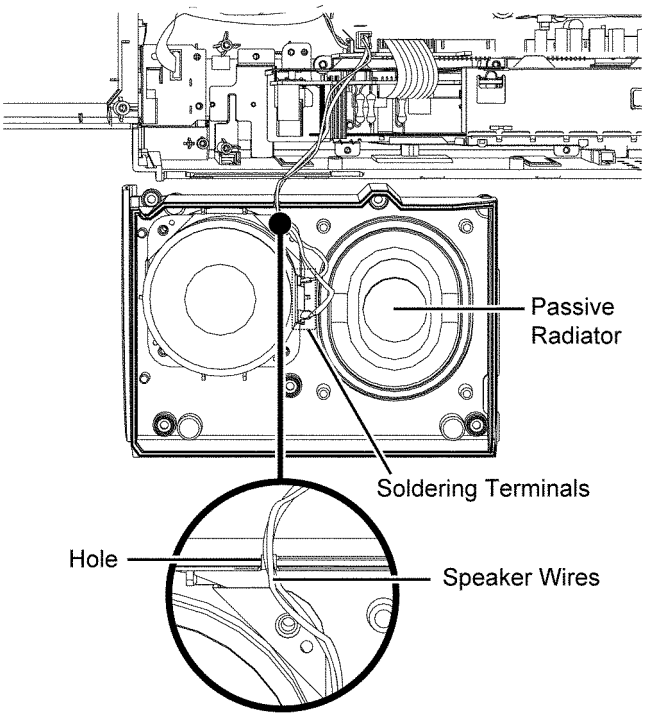
Step 4 : Lift up the Front Speaker Assembly (L).



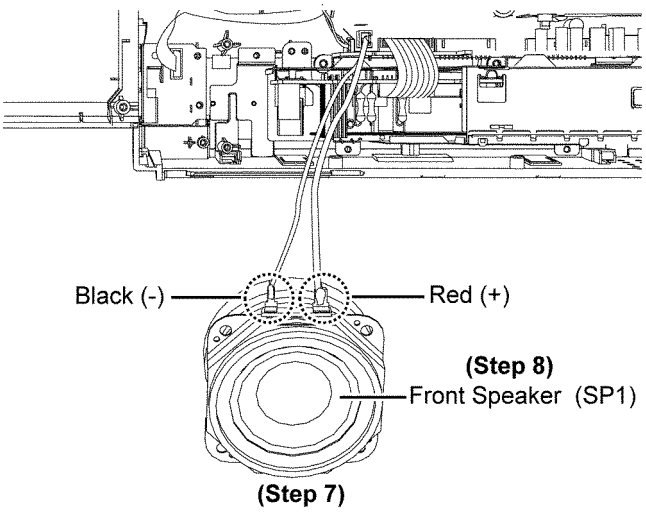
Step 5 : Remove 4 screws.
Step 6 : Lift up the Front Speaker (SP1).



Caution 1 : During assembling, of the Front Speaker (SP1), insert the speaker wires into the hole in the Front Speaker Assembly (L).
Caution 2 : Ensure that the Front Speaker (SP1) soldering terminals face the Passive Radiator.



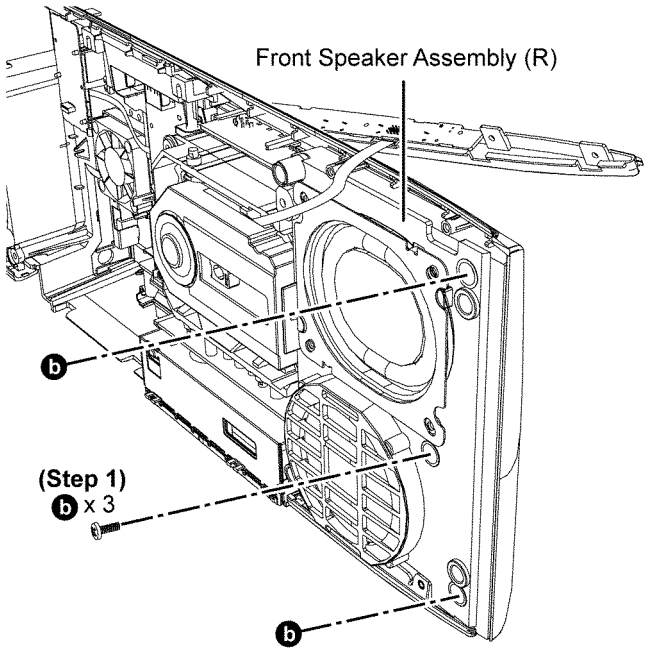
Step 7 : Desolder the speaker terminals of the red (+) and black (-) speaker wires.
Step 8 : Remove Front Speaker (SP1).



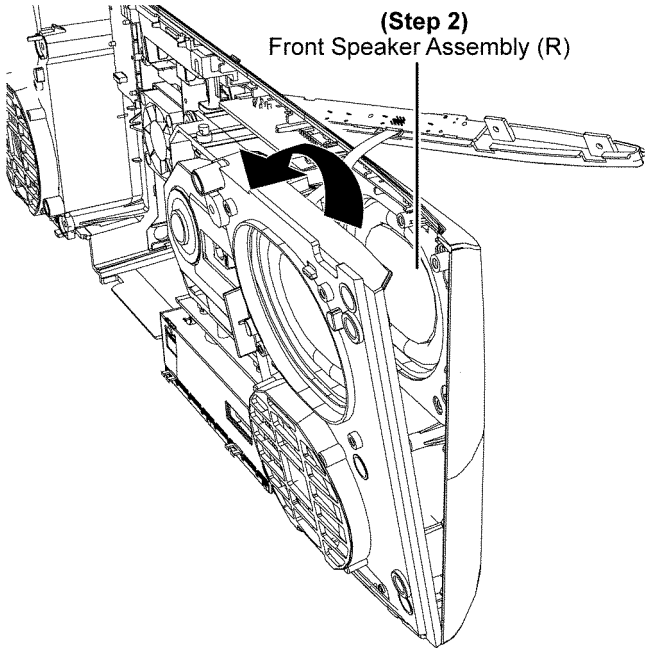
9.13. Disassembly of Front Speaker (SP2).

- Refer to “Disassembly of Stand Unit”.
- Refer to “Disassembly of CD Door Assembly”.
- Refer to “Disassembly of Net Frame Assembly”.
- Refer to “Disassembly of Front Panel Block”.
- Refer to “Disassembly of Top Ornament Unit”.

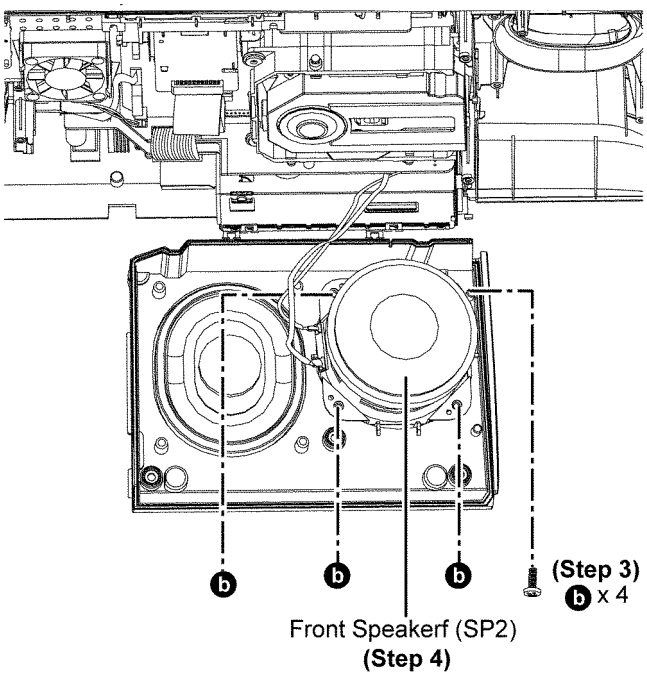
Step 1 : Remove 3 screws.



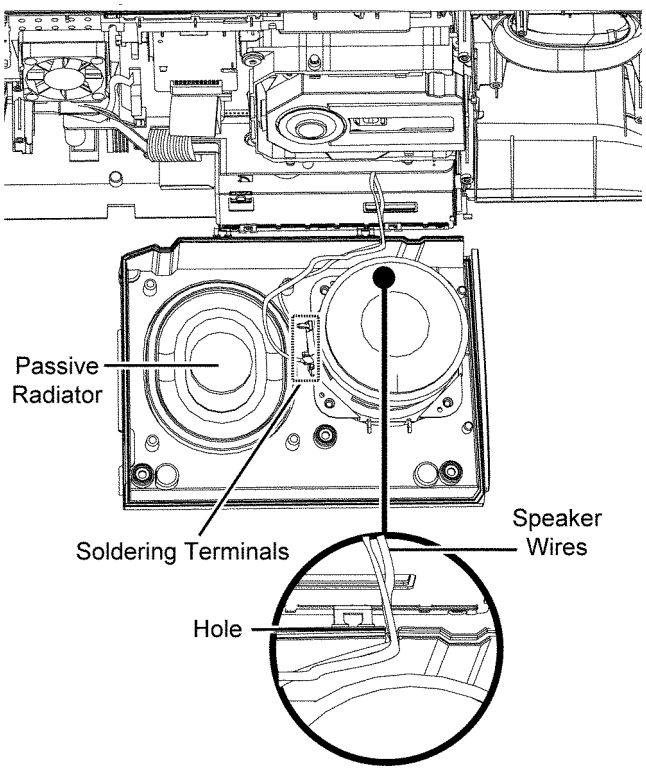
Step 2 : Lift up the Front Speaker Assembly (R).



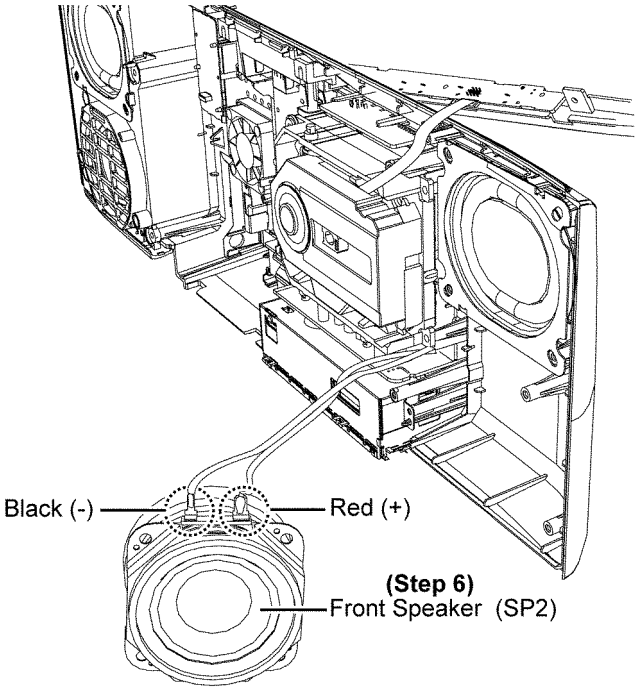
Step 3 : Remove 4 screws.
Step 4 : Lift up the Front Speaker (SP2).



Caution 1 : During assembling, of the Front Speaker (SP2), insert the speaker wires into the hole in the Front Speaker Assembly (R).
Caution 2 : Ensure that the Front Speaker (SP2) soldering terminals face the Passive Radiator.



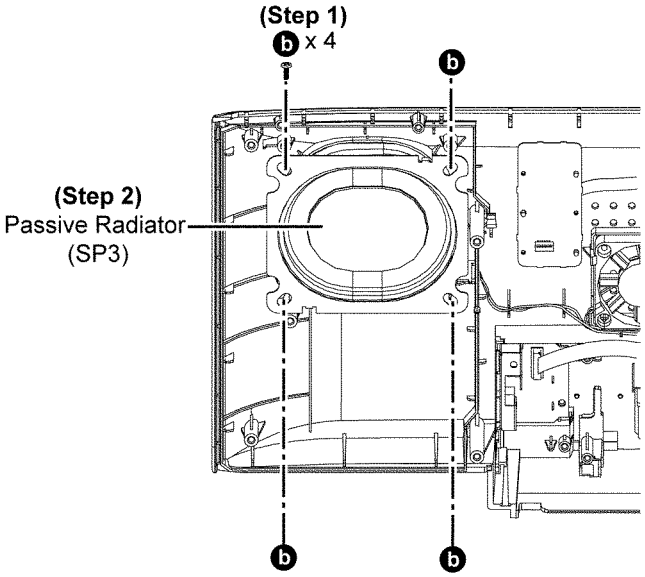
Step 5 : Desolder the speaker terminals of the red (+) and black (-) speaker wires.
Step 6 : Remove Front Speaker (SP2).



9.14. Disassembly of Passive Radiator (SP3).

- Refer to “Disassembly of Stand Unit”.
- Refer to “Disassembly of CD Door Assembly”.
- Refer to “Disassembly of Net Frame Assembly”.
- Refer to “Disassembly of Front Panel Block”.
- Refer to “Disassembly of Top Ornament Unit”.
- Refer to (Step 1) - (Step 4) of item 9.12.

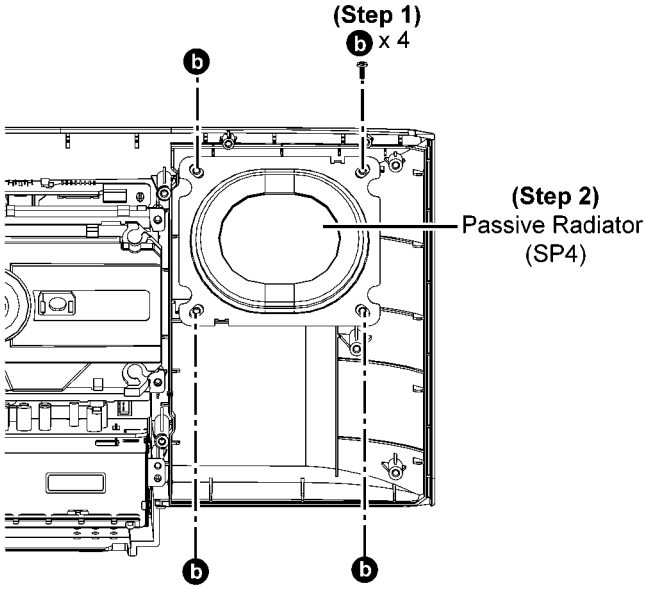
Step 1 : Remove 4 screws.
Step 2 : Remove Passive Raidator (SP3).



9.15. Disassembly of Passive Radiator (SP4).

- Refer to “Disassembly of Stand Unit”.
- Refer to “Disassembly of CD Door Assembly”.
- Refer to “Disassembly of Net Frame Assembly”.
- Refer to “Disassembly of Front Panel Block”.
- Refer to “Disassembly of Top Ornament Unit”.
- Refer to (Step 1) - (Step 2) of item 9.13.

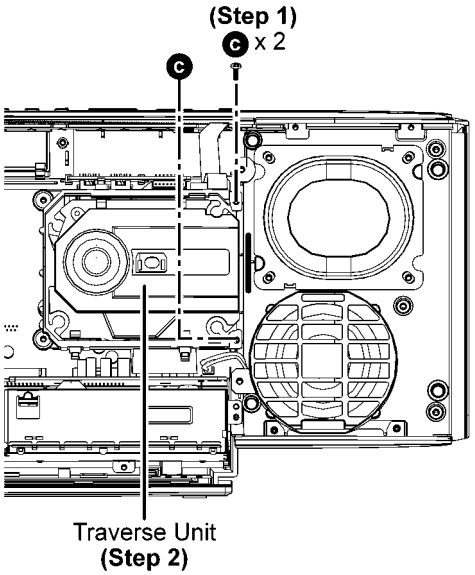
Step 1 : Remove 4 screws.
Step 2 : Remove Passive Raidator (SP4).



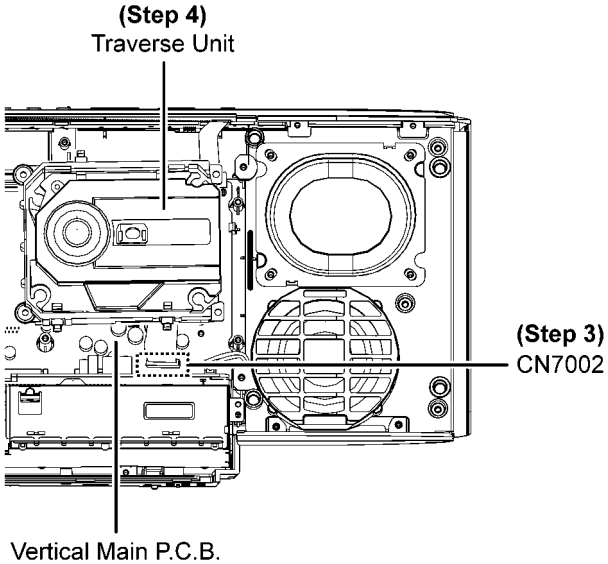
9.16. Disassembly of Traverse Unit.

- Refer to “Disassembly of Stand Unit”.
- Refer to “Disassembly of CD Door Assembly”.
- Refer to “Disassembly of Net Frame Assembly”.
- Refer to “Disassembly of Front Panel Block”.

Step 1 : Remove 2 screws.
Step 2 : Slightly lift up the Traverse Unit.



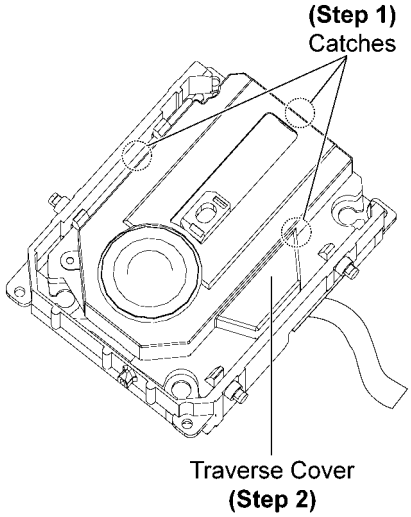
Step 3 : Detach 25P FFC at the connector (CN7002) on the Vertical Main P.C.B..
Step 4 : Remove Traverse Unit.



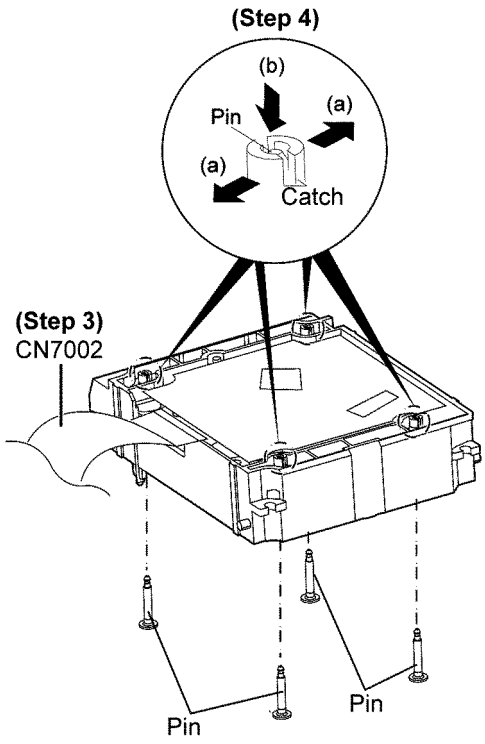
9.17. Disassembly of Traverse Cover & Traverse Assembly.

- Refer to “Disassembly of Traverse Unit”.

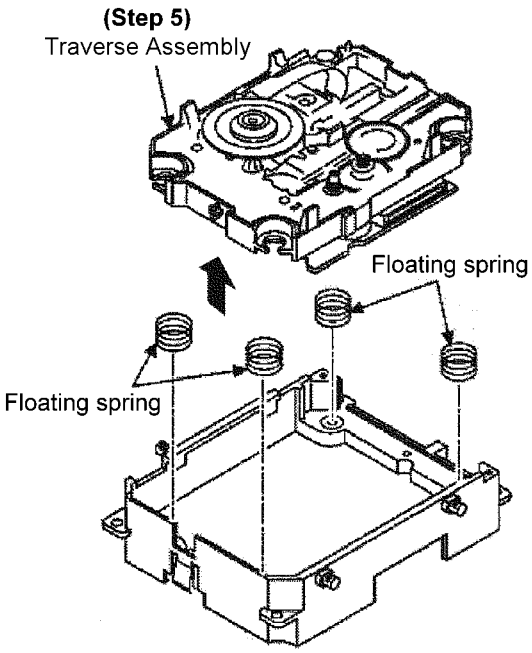
Step 1 : Release 3 catches.
Step 2 : Remove the Traverse Cover.



Step 3 : Detach 25P FFC at the connector (CN7002) on the CD Servo P.C.B..
Step 4 : Release both catches and push down the fixed pin as arrow shown.



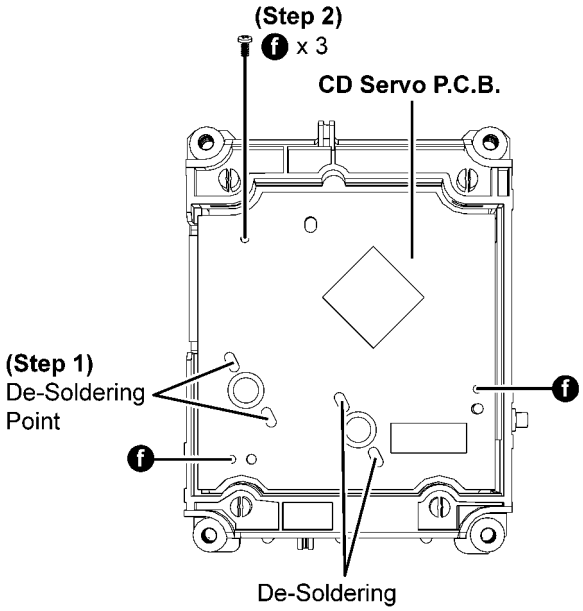
Step 5 : Lift up the Traverse Assembly to remove it.



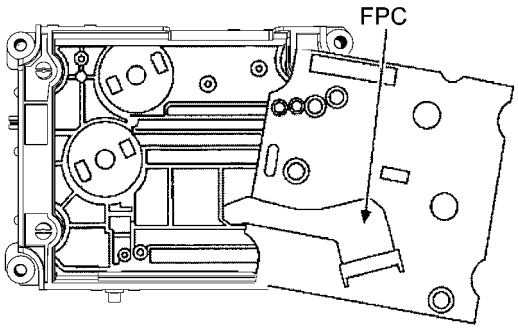
9.18. Disassembly of CD Servo P.C.B.

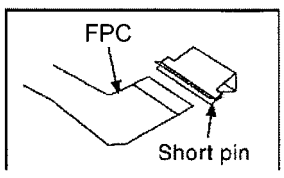
• Refer to "Disassembly of Traverse Unit"

Step 1 : Desolder the terminal.
Step 2 : Remove 3 screws.



Step 3 : Flip the CD Servo P.C.B..
Step 4 : Detach FPC.
Step 5 : Attach a short pin to the unit.
Caution : Insert a short pin into FPC of the optical pickup. [See "Handling Precautions for traverse unit"]

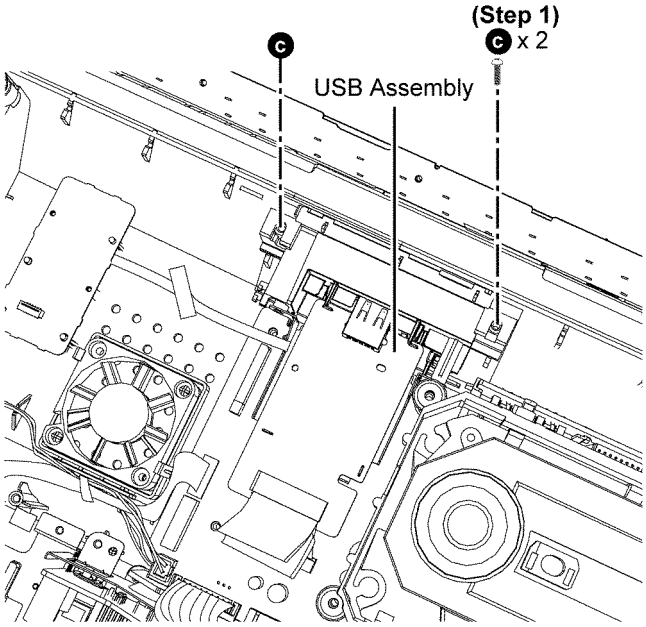




9.19. Disassembly of USB P.C.B.

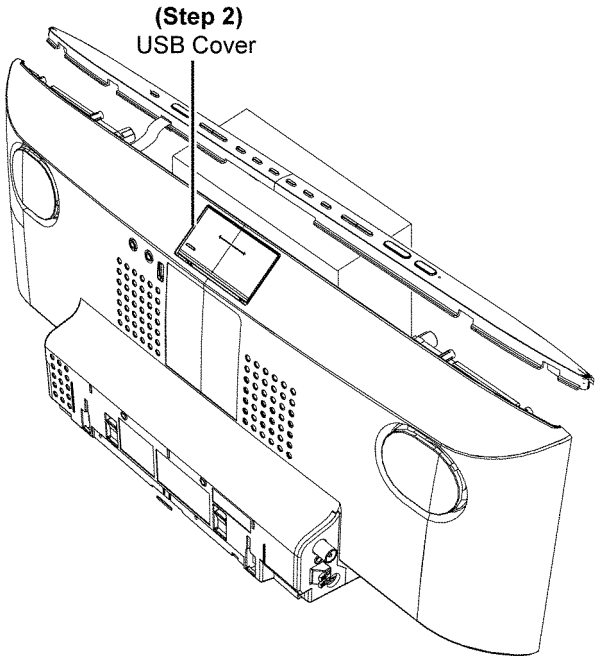
- Refer to “Disassembly of Stand Unit”.
- Refer to “Disassembly of CD Door Assembly”.
- Refer to “Disassembly of Net Frame Assembly”.
- Refer to “Disassembly of Front Panel Block”.
- Refer to “Disassembly of Top Ornament Unit”.

Step 1 : Remove 2 screws.

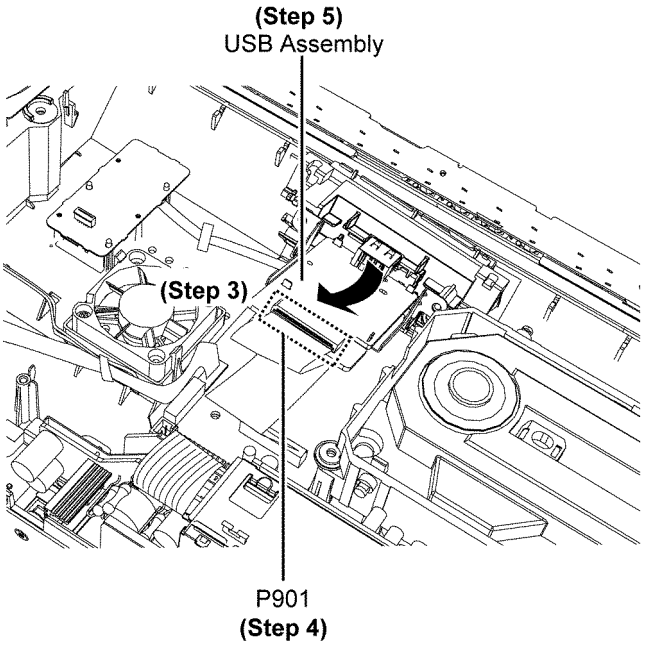


Step 2 : Open USB Cover.

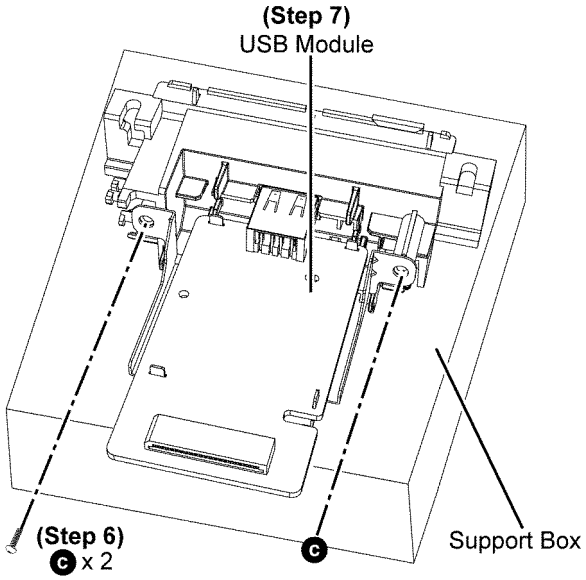
(Rear View)



Step 3 : Lift up the USB Assembly.
Step 4 : Detach 22P FFC at the connector (P901) on the USB P.C.B..
Step 5 : Remove the USB Assembly

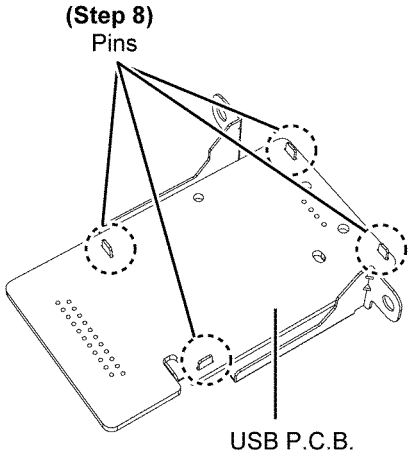


Step 6 : Remove 2 screws.
Step 7 : Remove the USB Module.

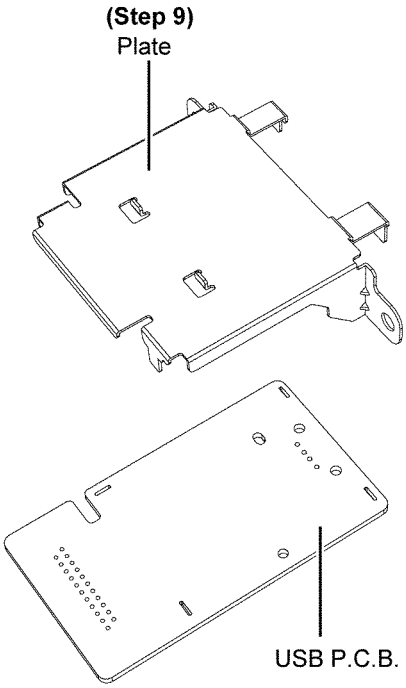


Step 8 : Desolder 4P on USB P.C.B..

Caution : During assembling, ensure the USB P.C.B. is seated properly on the pins of the plate.



Step 9 : Remove USB P.C.B..

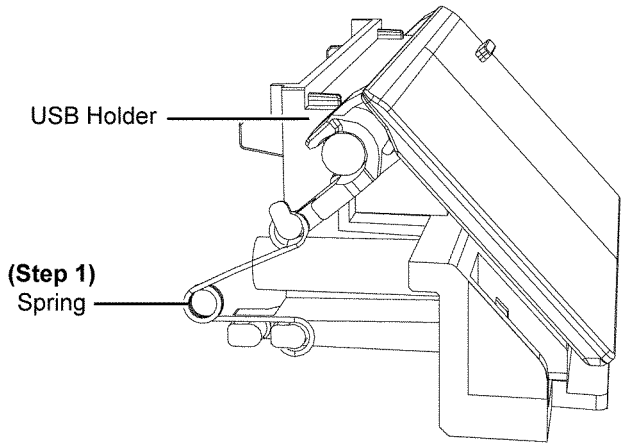


9.20. Disassembly of USB Lid

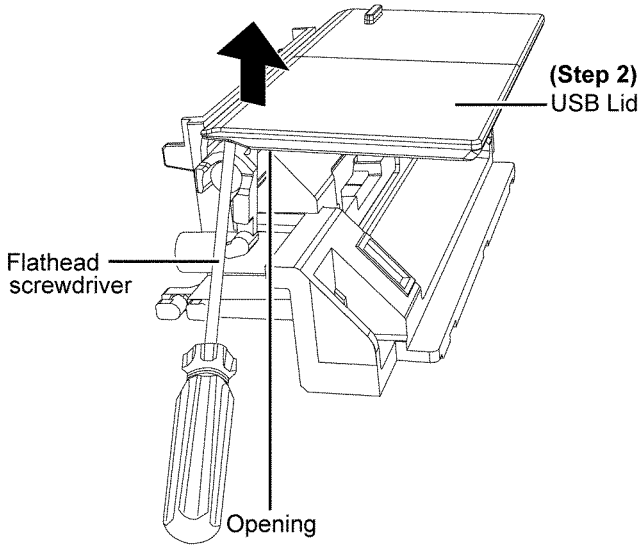
• Refer to “Disassembly of USB P.C.B.”.

Step 1 : Remove the spring from the shaft.

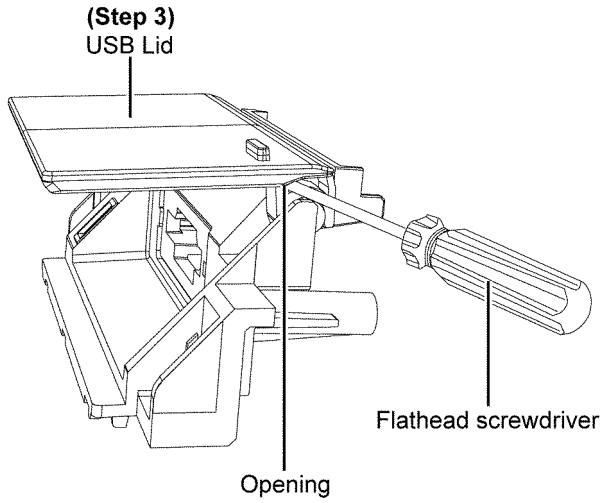
Caution : Keep the spring in safe place and place them back during assembling.



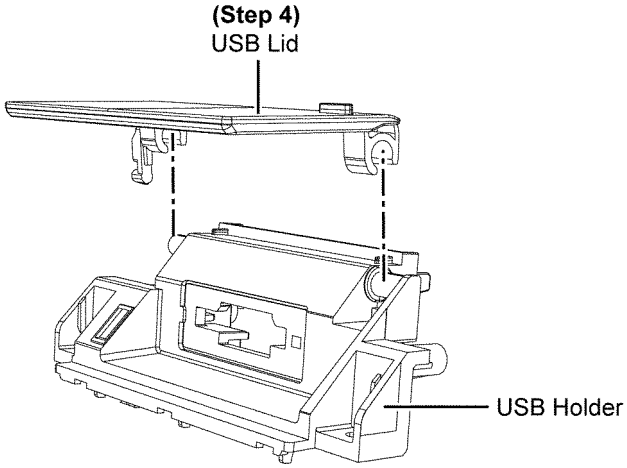
Step 2 : Insert a flathead screwdriver in the opening under the USB Lid and push the USB Lid as arrow shown.



Step 3 : Repeat the same action on the other side of the USB Lid.



Step 4 : Remove the USB Lid.



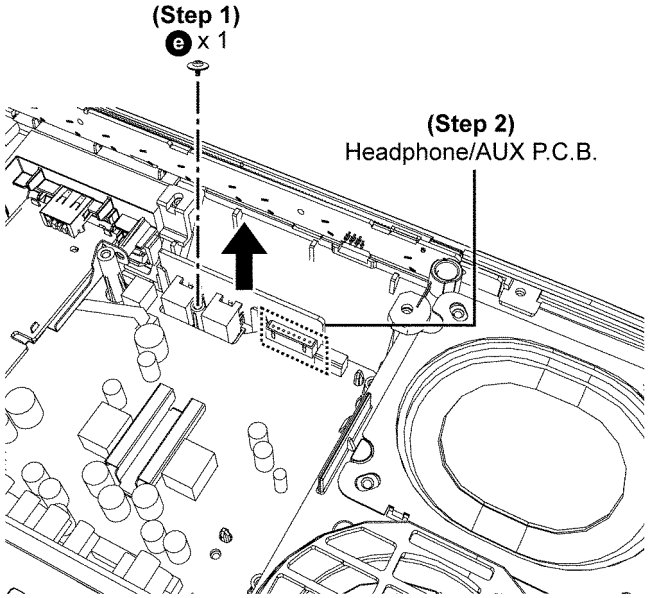
9.21. Disassembly of Headphone/ AUX P.C.B.

- Refer to “Disassembly of Stand Unit”.
- Refer to “Disassembly of CD Door Assembly”.
- Refer to “Disassembly of Net Frame Assembly”.
- Refer to “Disassembly of Front Panel Block”.
- Refer to "Disassembly of Traverse Unit”

Step 1 : Remove 1 screw.

Step 2 : Remove Headphone/AUX P.C.B..

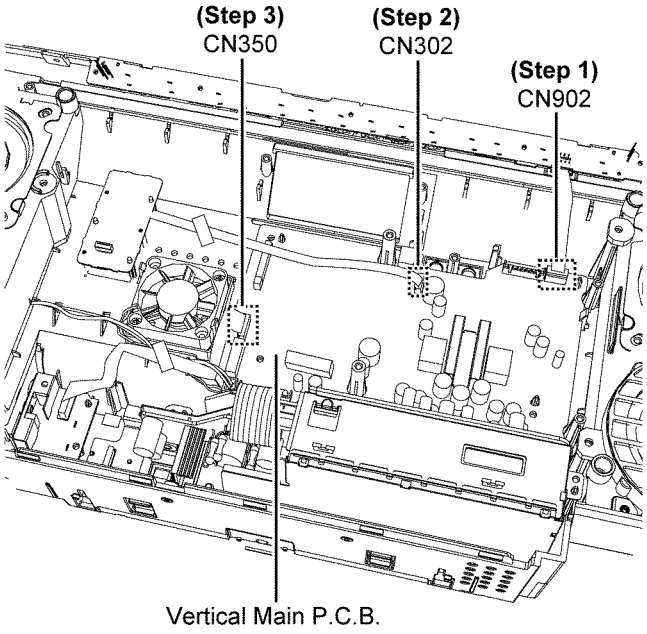
Caution : During assembling, ensure the Headphone/AUX P.C.B. is seated properly.



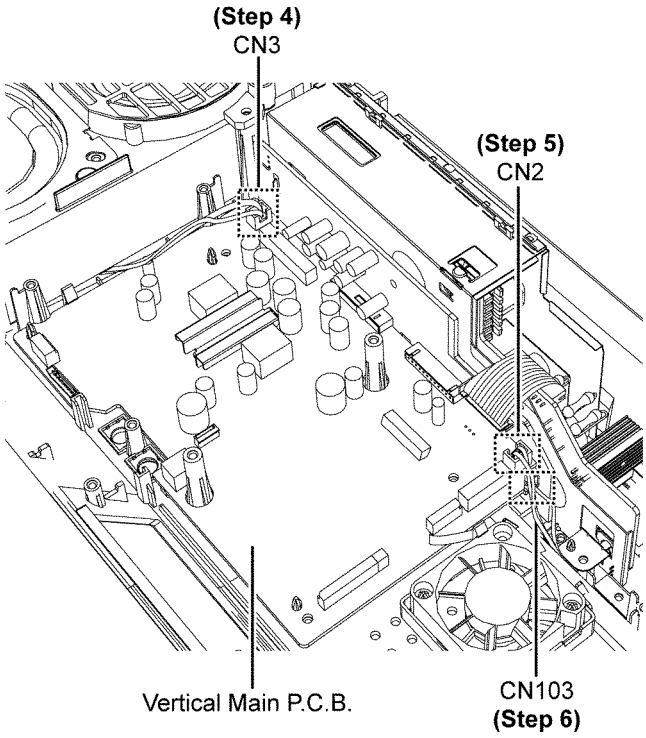
9.22. Disassembly of PCB Block

- Refer to “Disassembly of Stand Unit”.
- Refer to “Disassembly of CD Door Assembly”.
- Refer to “Disassembly of Net Frame Assembly”.
- Refer to “Disassembly of Front Panel Block”.
- Refer to “Disassembly of Top Ornament Unit”.
- Refer to "Disassembly of Traverse Unit”
- Refer to "Disassembly of USB P.C.B.”
- Refer to "Disassembly of Headphone/AUX P.C.B.”

Step 1 : Detach 7P FFC at the connector (CN902) on the Vertical Main P.C.B..
Step 2 : Detach 12P FFC at the connector (CN302) on the Vertical Main P.C.B..
Step 3 : Detach 9P FFC at the connector (CN350) on the Vertical Main P.C.B..

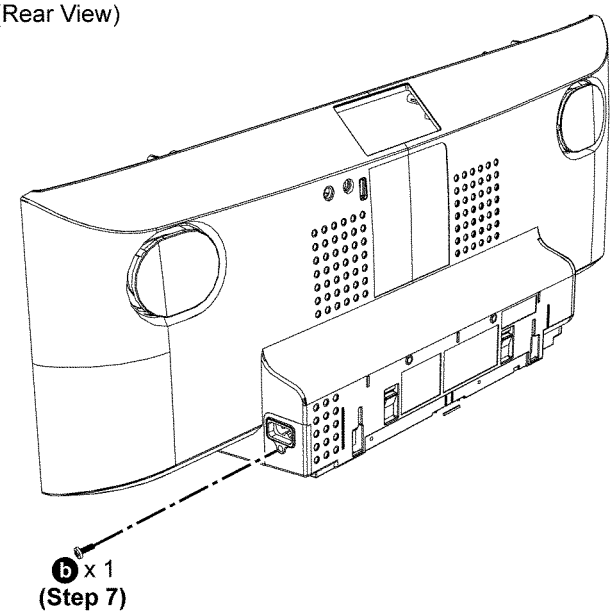


Step 4 : Detach 2P wires at the connector (CN3) on the Vertical Main P.C.B..
Step 5 : Detach 2P wires at the connector (CN2) on the Vertical Main P.C.B..
Step 6 : Detach 2P wires at the connector (CN103) on the Horizontal Main P.C.B..

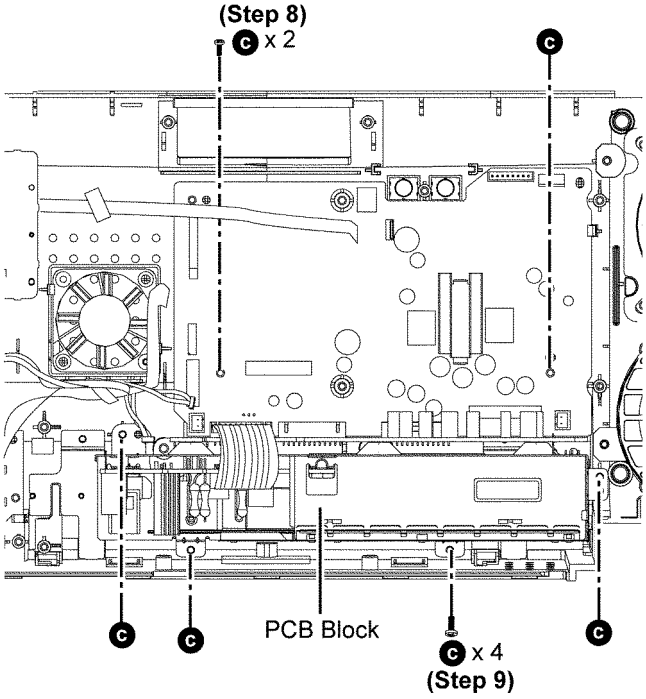


Step 7 : Remove 1 screw.

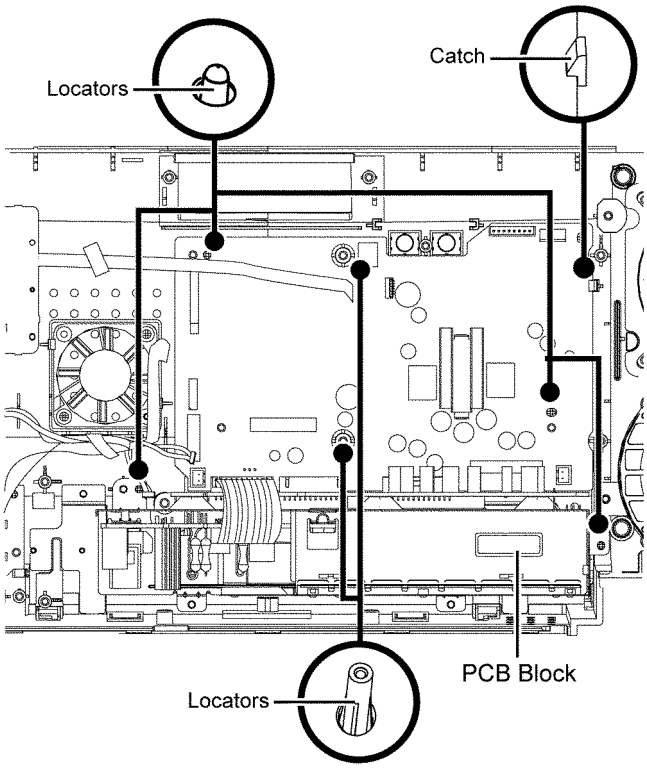
(Rear View)



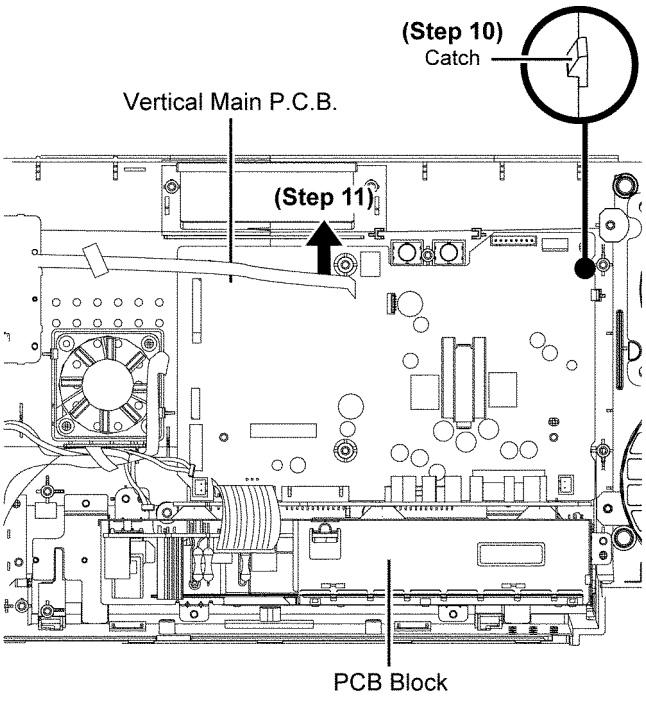
Step 8 : Remove 2 screws.
Step 9 : Remove 4 screws.



Caution : During assembling, ensure the PCB Block is seated properly on the locator and catch.



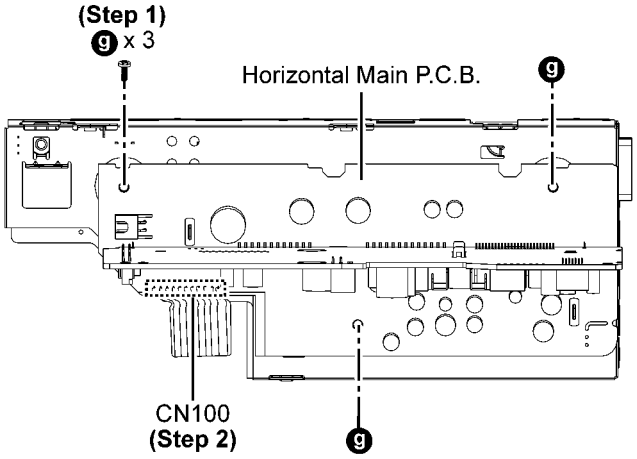
Step 10 : Release the catch on the Vertical Main P.C.B.
Step 11 : Remove PCB Block.



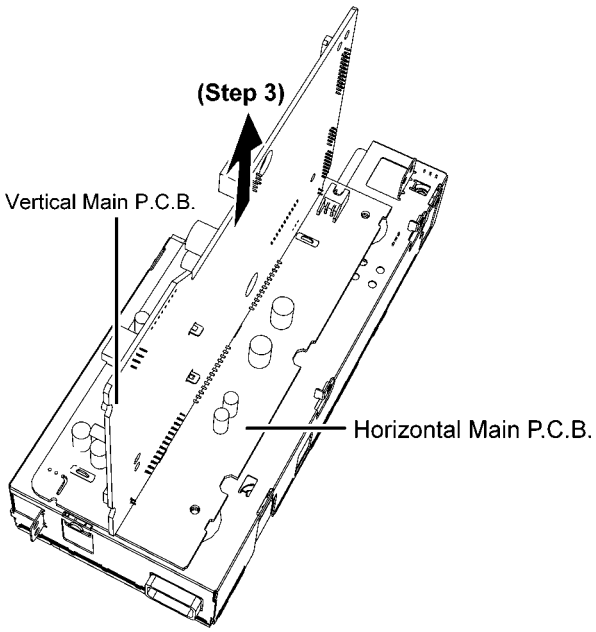
9.23. Disassembly of SMPS P.C.B.

• Refer to “Disassembly of PCB Block”.

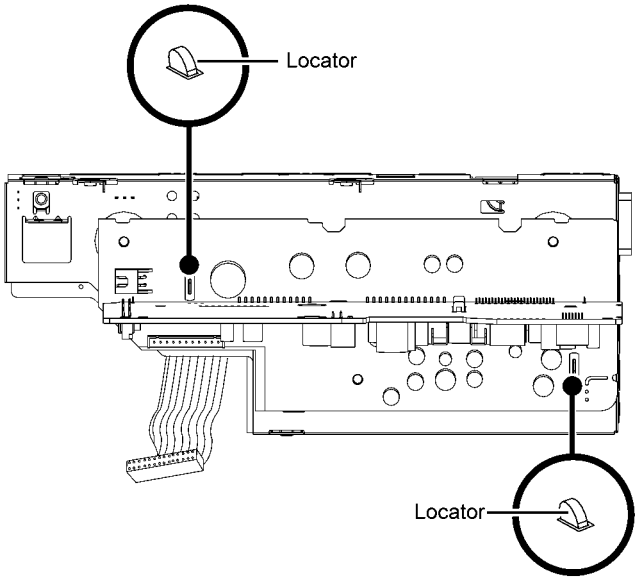
Step 1 : Remove 3 screws.
Step 2 : Detach 11P cable at the connector (CN100) on the Horizontal Main P.C.B..



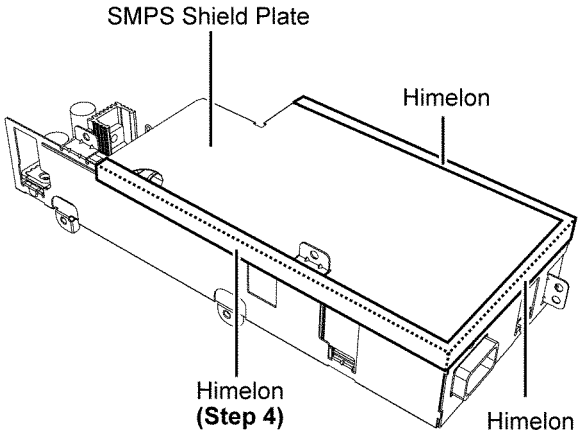
Step 3 : Lift up Vertical Main P.C.B. and Horizontal Main P.C.B. together.



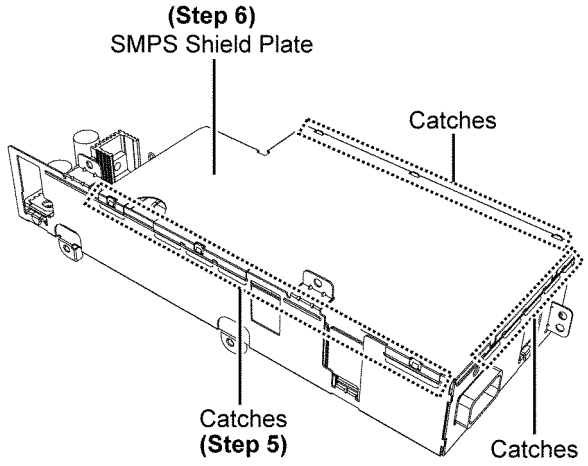
Caution : During assembling, ensure the Horizontal Main P.C.B. is seated properly on the locator.



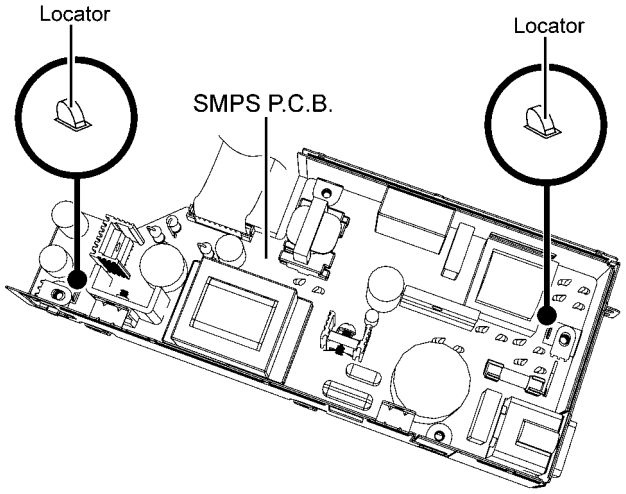
Step 4 : Lift up the himelons.
Caution : Replace the himelons if they are torn during disassembling.



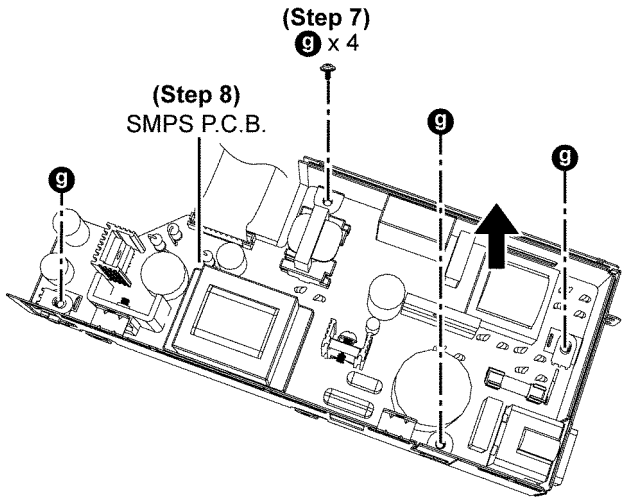
Step 5 : Release catches.
Step 6 : Remove SMPS Shield Plate.



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



Step 7 : Remove 4 screws.
Step 8 : Remove SMPS P.C.B. as arrow shown.



9.24. Replacement of Switching Regulator IC (IC5701)

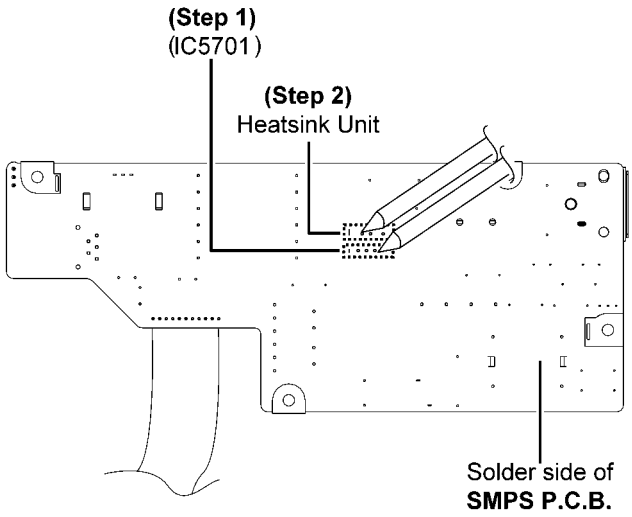
• Refer to "Disassembly of SMPS P.C.B.".

9.24.1. Disassembly of Switching Regulator IC (IC5701)

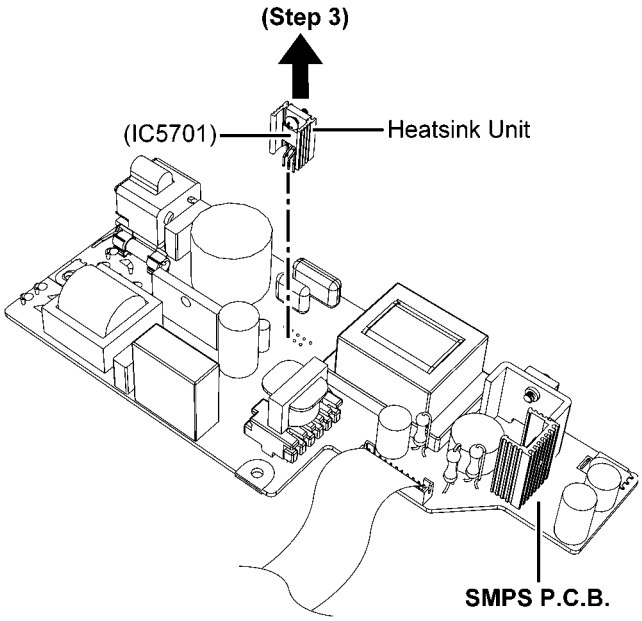
Caution : Handle the heatsink unit and P.C.B. with caution due to its high temperature after prolonged use. Touching it may lead to injuries.

Step 1 : Desolder pins of Switching Regulator IC (IC5701) on the solder side of SMPS P.C.B..

Step 2 : Desolder pins of Heatsink Unit on the solder side of SMPS P.C.B..

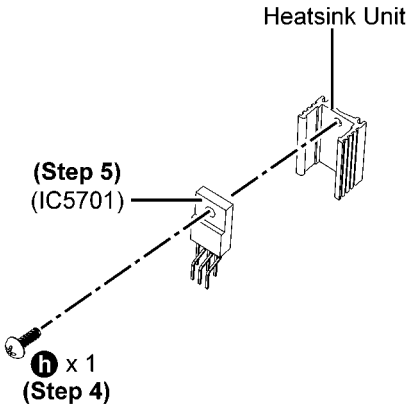


Step 3 : Remove the Heatsink Unit with the Switching Regulator IC (IC5701).



Step 4 : Remove 1 screw.

Step 5 : Remove the Switching Regulator IC (IC5701).

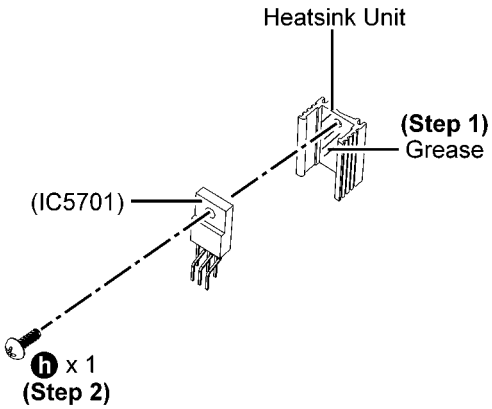


9.24.2. Assembly of Switching Regulator IC (IC5701)

Step 1 : Apply grease to the Heatsink Unit.

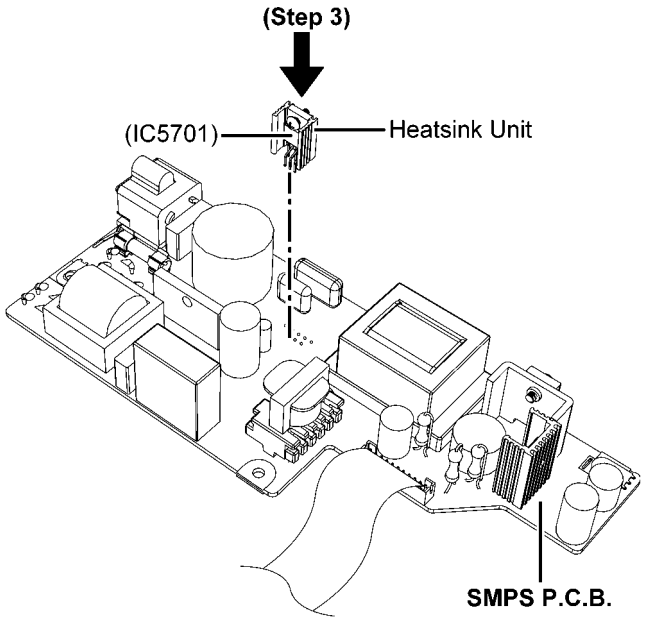
Step 2 : Fix & screw the Switching Regulator IC (IC5701) onto the Heatsink Unit.

Caution : Ensure the Switching Regulator IC (IC5701) is tightly screwed to the Heatsink Unit.



Step 3 : Mount the Switching Regulator IC (IC5701) onto SMPS P.C.B.

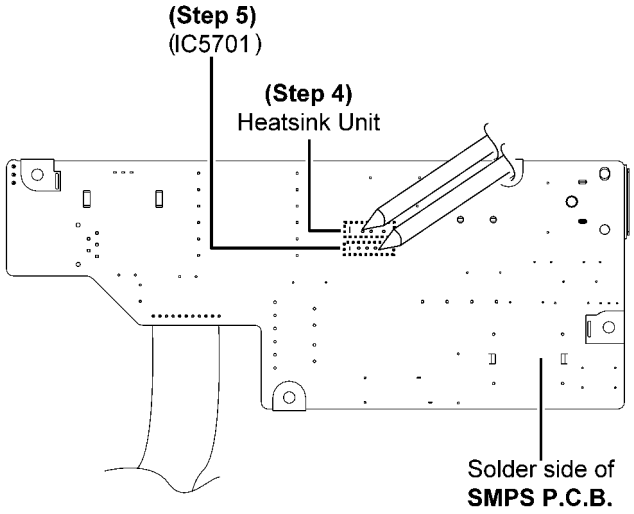
Caution : Ensure the Switching Regulator IC (IC5701) is seated properly on the SMPS P.C.B..



Step 4 : Solder pins of the Heatsink Unit.

Step 5 : Solder pins of the Switching Regulator IC (IC5701).

Caution : Ensure the Switching Regulator IC (IC5701) is seated properly onto the SMPS P.C.B. before soldering.



9.25. Replacement of Voltage Regulator IC (IC2910)

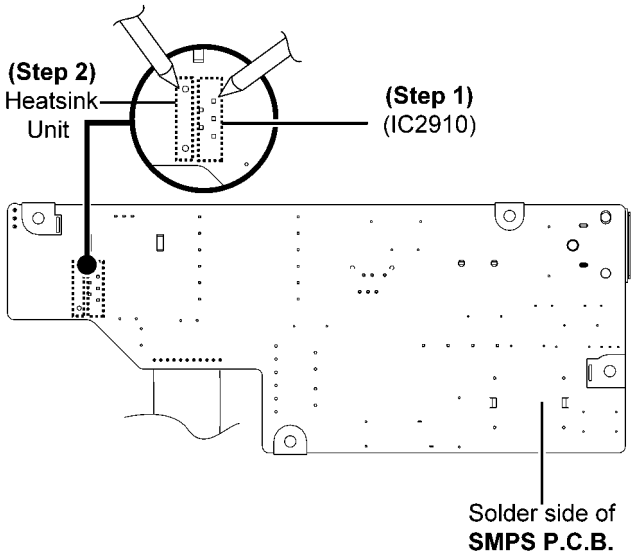
- Refer to "Disassembly of SMPS P.C.B.".

9.25.1. Disassembly of Voltage Regulator IC (IC2910)

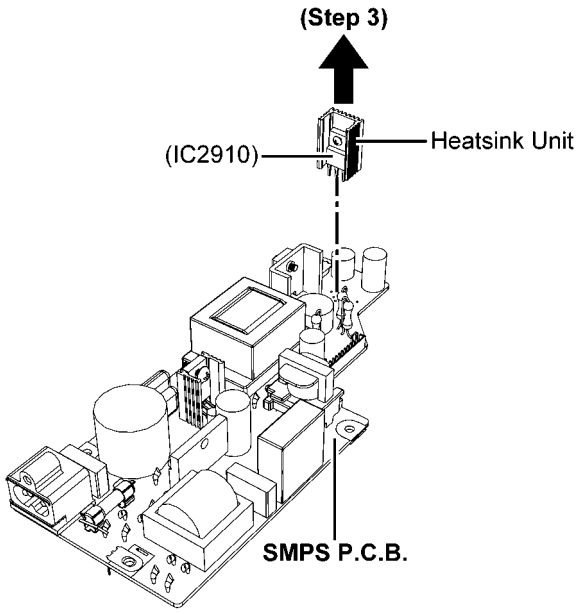
Caution : Handle the heatsink unit and P.C.B. with caution due to its high temperature after prolonged use. Touching it may lead to injuries.

Step 1 : Desolder pins of Voltage Regulator IC (IC2910) on the solder side of SMPS P.C.B..

Step 2 : Desolder pins of Heatsink Unit on the solder side of SMPS P.C.B..

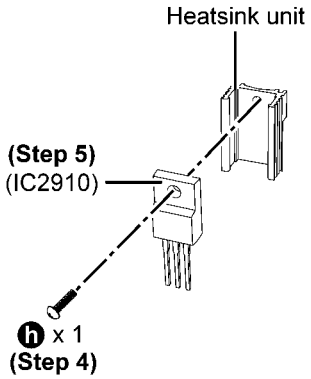


Step 3 : Remove the Heatsink Unit with the Voltage Regulator IC (IC2910).



Step 4 : Remove 1 screw.

Step 5 : Remove the Voltage Regulator IC (IC2910).

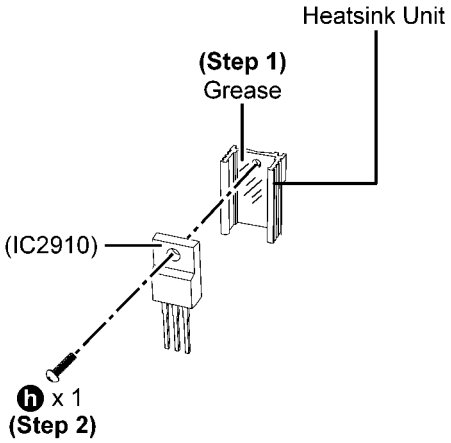


9.25.2. Assembly of Voltage Regulator IC (IC2910)

Step 1 : Apply grease to the Heatsink Unit.

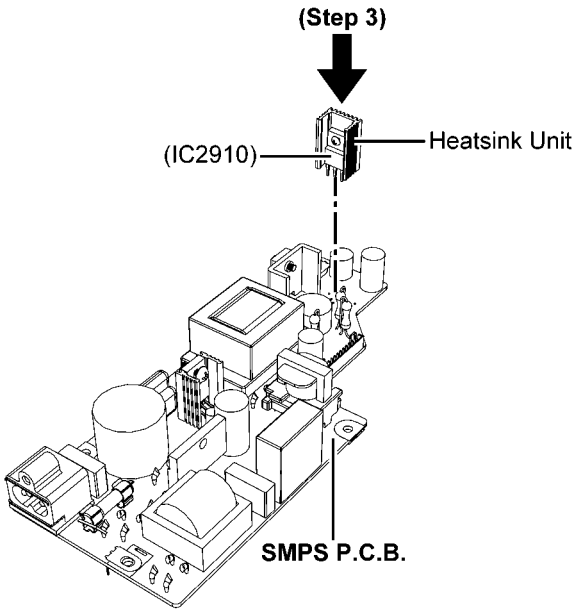
Step 2 : Fix & screw the Voltage Regulator IC (IC2910) onto the Heatsink Unit.

Caution : Ensure the Voltage Regulator IC (IC2910) is tightly screwed to the Heatsink Unit.



Step 3 : Mount the Voltage Regulator IC (IC2910) onto SMPS P.C.B.

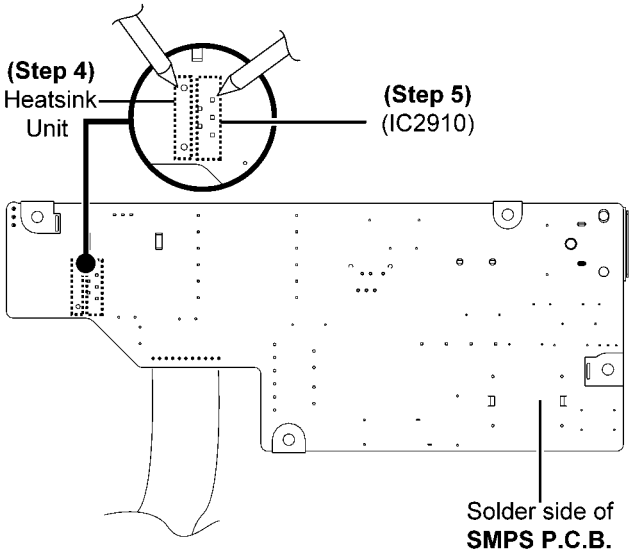
Caution : Ensure the Voltage Regulator IC (IC2910) is seated properly on the SMPS P.C.B..



Step 4 : Solder pins of the Heatsink Unit.

Step 5 : Solder pins of the Voltage Regulator IC (IC2910).

Caution : Ensure the Voltage Regulator IC (IC2910) is seated properly onto the SMPS P.C.B. before soldering.



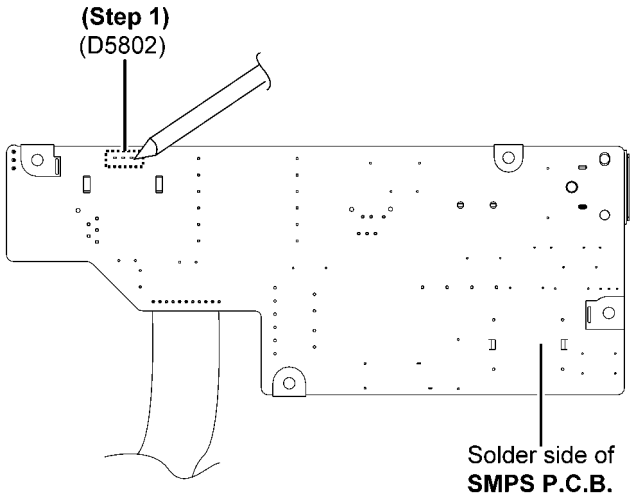
9.26. Replacement of Diode (D5802)

• Refer to "Disassembly of SMPS P.C.B.".

9.26.1. Disassembly of Diode (D5802)

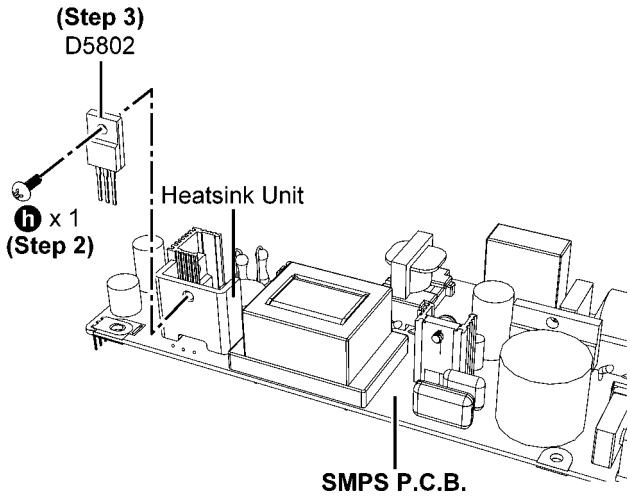
Caution : Handle the heatsink unit and P.C.B. with caution due to its high temperature after prolonged use. Touching it may lead to injuries.

Step 1 : Desolder pins of Diode (D5802) on the solder side of SMPS P.C.B..



Step 2 : Remove 1 screw.

Step 3 : Remove the Diode (D5802).



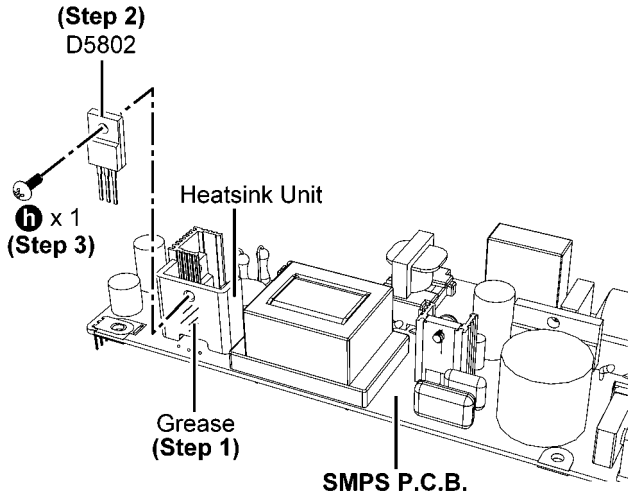
9.26.2. Assembly of Diode (D5802)

Step 1 : Apply grease to the Heatsink Unit.

Step 2 : Mount the Diode (D5802) onto SMPS P.C.B.

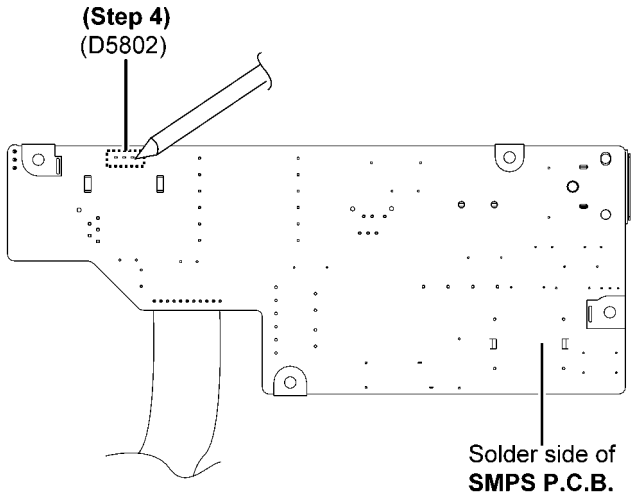
Caution : Ensure the Diode (D5802) is seated properly on the SMPS P.C.B..

Step 3 : Fix & screw the Diode (D5802) onto the Heatsink Unit.



Step 4 : Solder pins of the Diode (D5802).

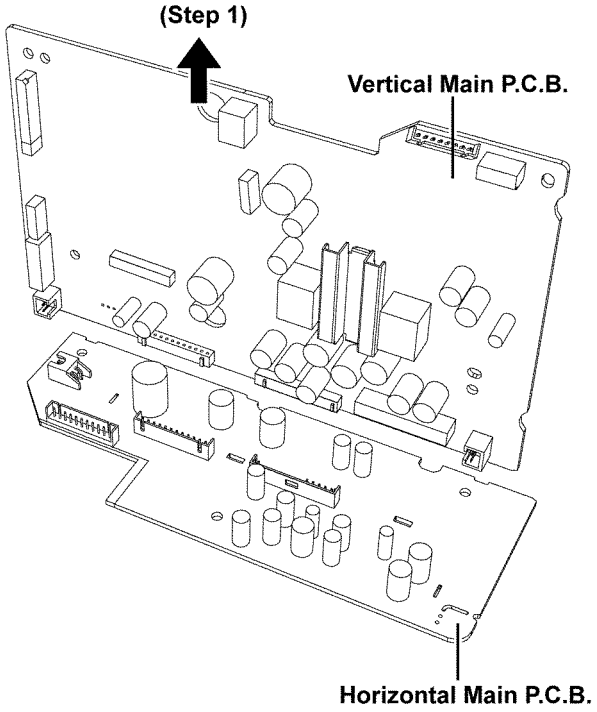
Caution : Ensure the Diode (D5802) is seated properly onto the SMPS P.C.B. before soldering.



9.27. Disassembly of Horizontal Main P.C.B. and Vertical Main P.C.B.

- Refer to “Disassembly of Stand Unit”.
- Refer to “Disassembly of CD Door Assembly”.
- Refer to “Disassembly of Net Frame Assembly”.
- Refer to “Disassembly of Front Panel Block”.
- Refer to “Disassembly of Top Ornament Unit”.
- Refer to "Disassembly of Traverse Unit”
- Refer to "Disassembly of USB P.C.B.”
- Refer to "Disassembly of Headphone/AUX P.C.B.”.
- Refer to “Disassembly of PCB Block”.
- Refer to (Step 1) - (Step 2) of item 9.23.

Step 1 : Detach Horizontal Main P.C.B. and Vertical Main P.C.B. as arrow shown.



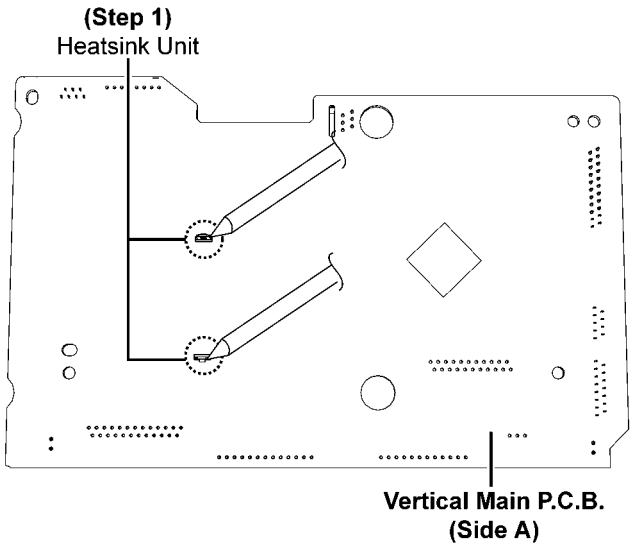
9.28. Replacement of Power Amplifier IC (IC1)

- Refer to "Disassembly of Horizontal Main P.C.B. and Vertical Main P.C.B.".

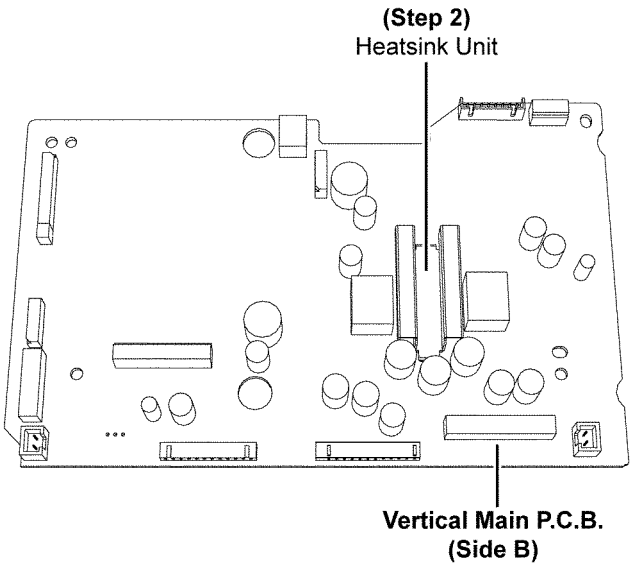
9.28.1. Disassembly of Power Amplifier IC (IC1)

Caution : Handle the heatsink unit and P.C.B. with caution due to its high temperature after prolonged use. Touching it may lead to injuries.

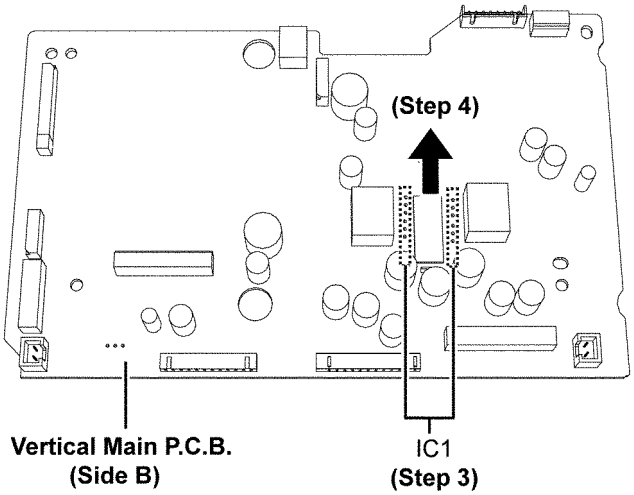
Step 1 : Desolder pins of Heatsink Unit on the Vertical Main P.C.B. (Side A).



Step 2 : Remove the Heatsink Unit.

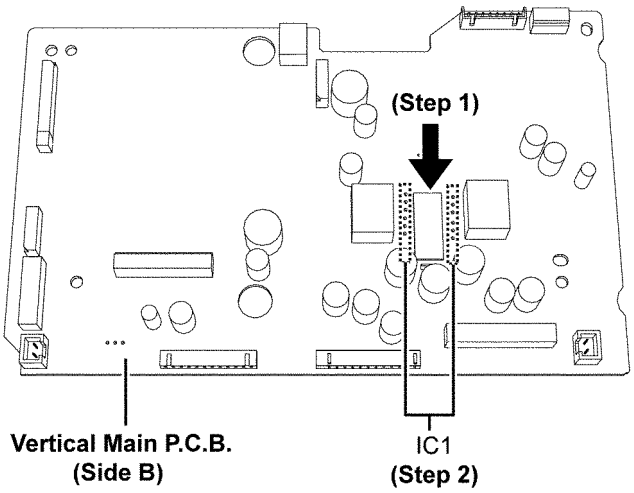


Step 3 : Desolder pins of Power Amplifier IC (IC1) on the Vertical Main P.C.B. (Side B).
Step 4 : Remove the Power Amplifier IC (IC1).

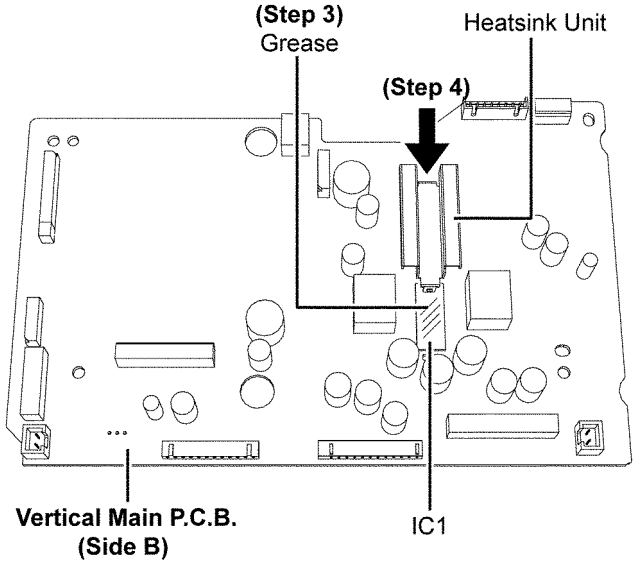


9.28.2. Assembly of Power Amplifier IC (IC1)

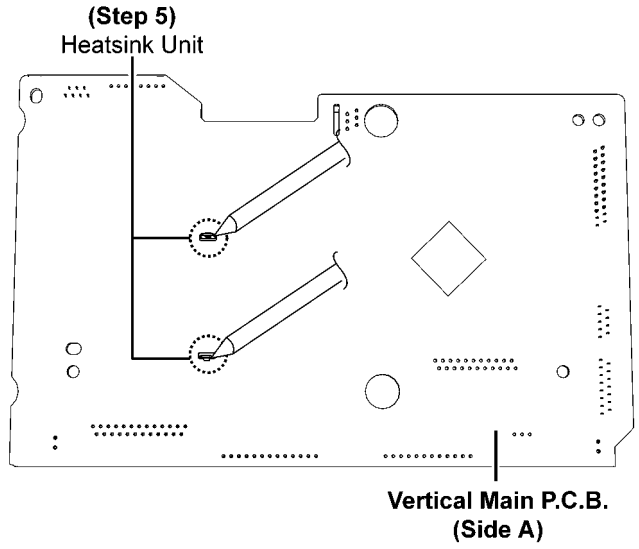
Step 1 : Fix the Power Amplifier IC (IC1) onto Vertical Main P.C.B.
Step 2 : Solder pins of the Power Amplifier IC (IC1).
Caution : Ensure the Power Amplifier IC (IC1) is seated properly onto the Vertical Main P.C.B. before soldering.



Step 3 : Apply grease onto the top side of the Power Amplifier IC (IC1).
Step 4 : Fix the Heatsink Unit onto the Vertical Main P.C.B..



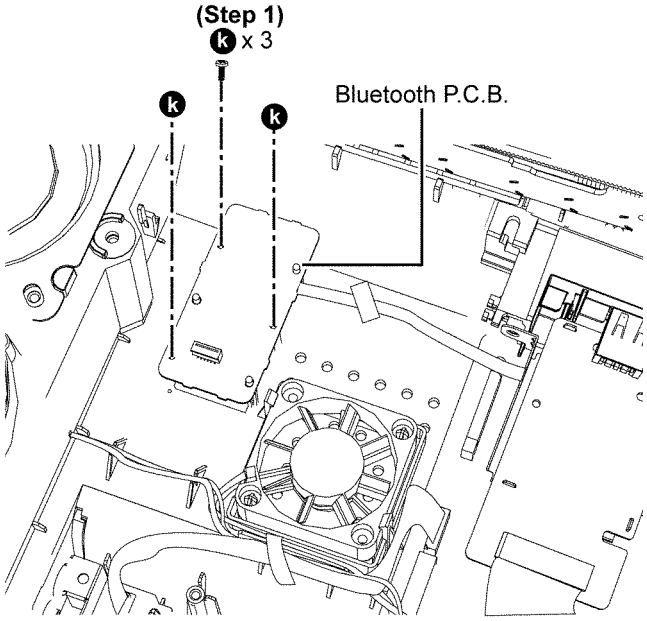
Step 5 : Solder pins of the Heatsink Unit.



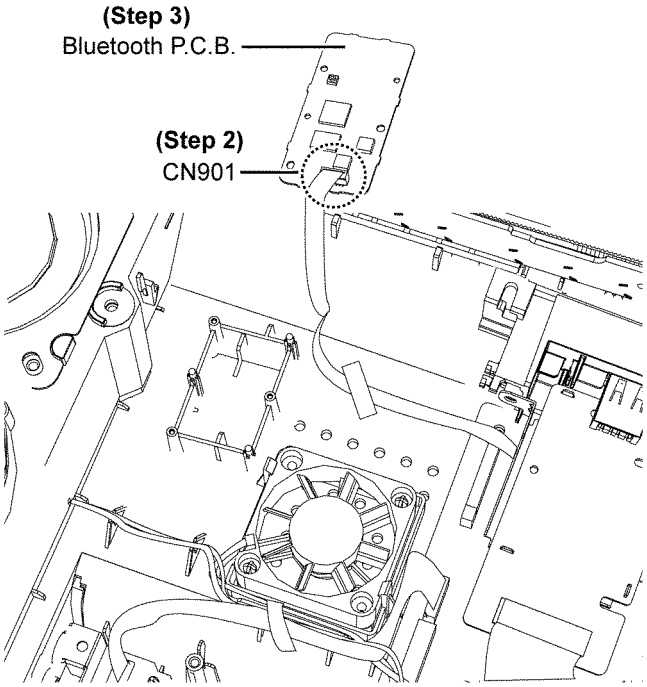
9.29. Disassembly of Bluetooth P.C.B.

- Refer to “Disassembly of Stand Unit”.
- Refer to “Disassembly of CD Door Assembly”.
- Refer to “Disassembly of Net Frame Assembly”.
- Refer to “Disassembly of Front Panel Block”.

Step 1 : Remove 3 screws.



Step 2 : Detach 10P FFC at the connector (CN901) on the Bluetooth P.C.B..
Step 3 : Remove Bluetooth P.C.B..

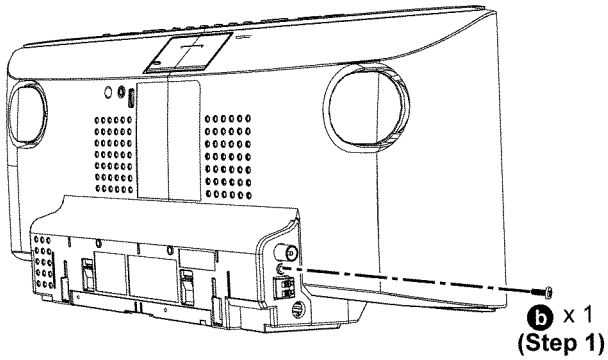


9.30. Disassembly of Tuner P.C.B.

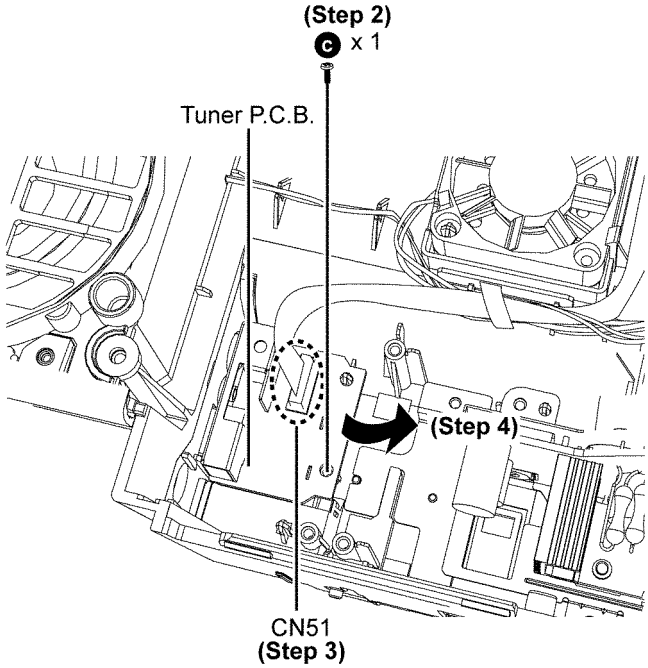
- Refer to “Disassembly of Stand Unit”.
- Refer to “Disassembly of CD Door Assembly”.
- Refer to “Disassembly of Net Frame Assembly”.
- Refer to “Disassembly of Front Panel Block”.

Step 1 : Remove 1 screw.

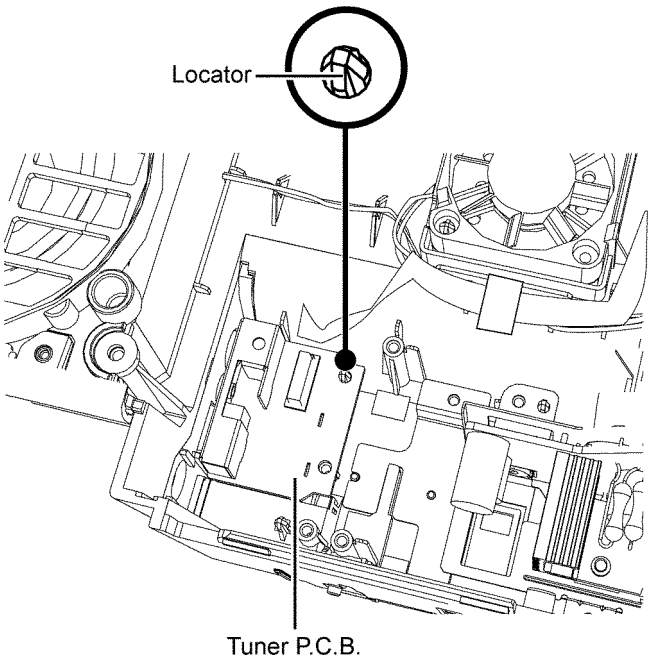
(Rear View)



Step 2 : Remove 1 screw.
Step 3 : Detach 9P FFC at the connector (CN51) on the Tuner P.C.B..
Step 4 : Remove Tuner P.C.B. as arrow shown.



Caution : During assembling, ensure the Tuner P.C.B. is seated properly on the locator.



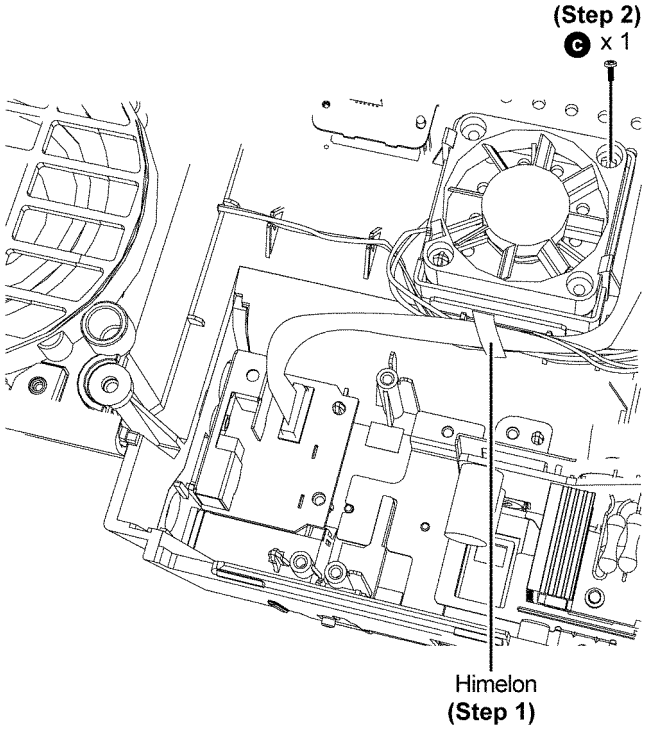
9.31. Disassembly of Fan Unit

- Refer to “Disassembly of Stand Unit”.
- Refer to “Disassembly of CD Door Assembly”.
- Refer to “Disassembly of Net Frame Assembly”.
- Refer to “Disassembly of Front Panel Block”.

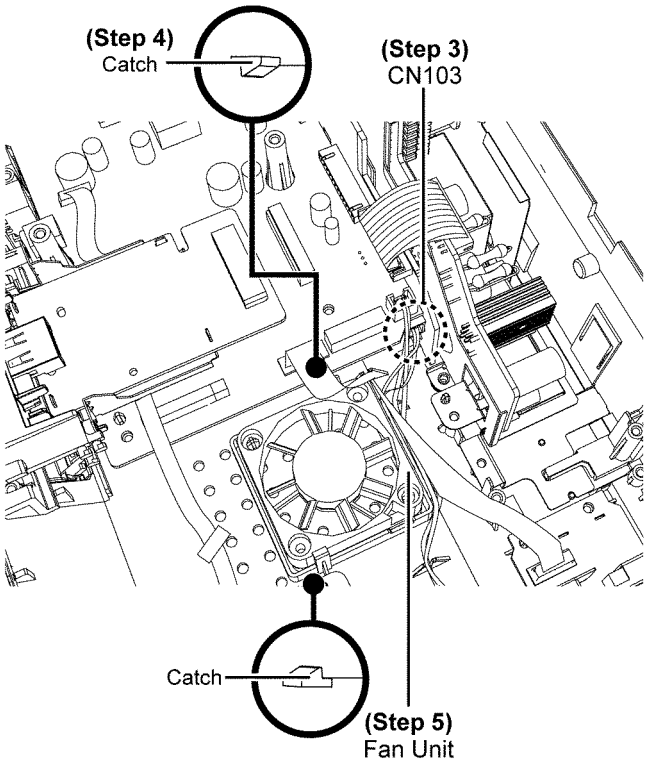
Step 1 : Lift up the himelon.

Step 2 : Remove 1 screw.

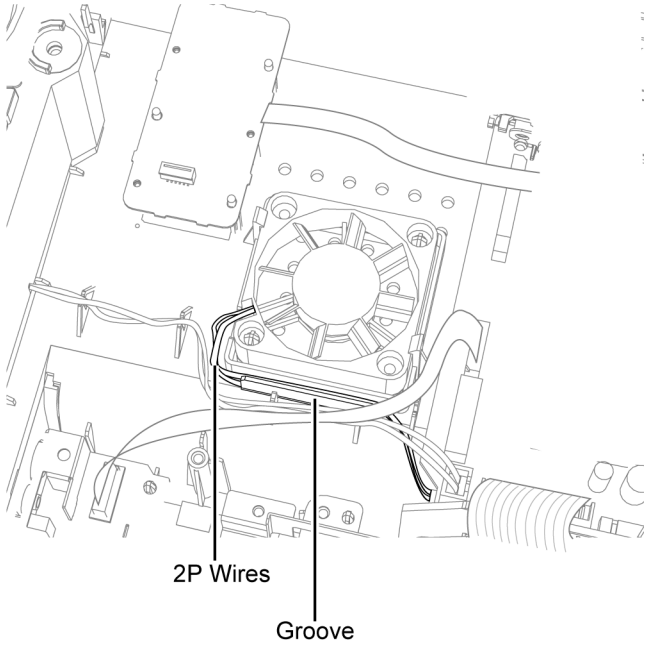
Caution : Replace the himelon if they are torn during disassembling.



Step 3 : Detach 2P wires at the connector (CN103) on the Horizontal Main P.C.B..
Step 4 : Release 2 catches.
Step 5 : Remove the Fan Unit.



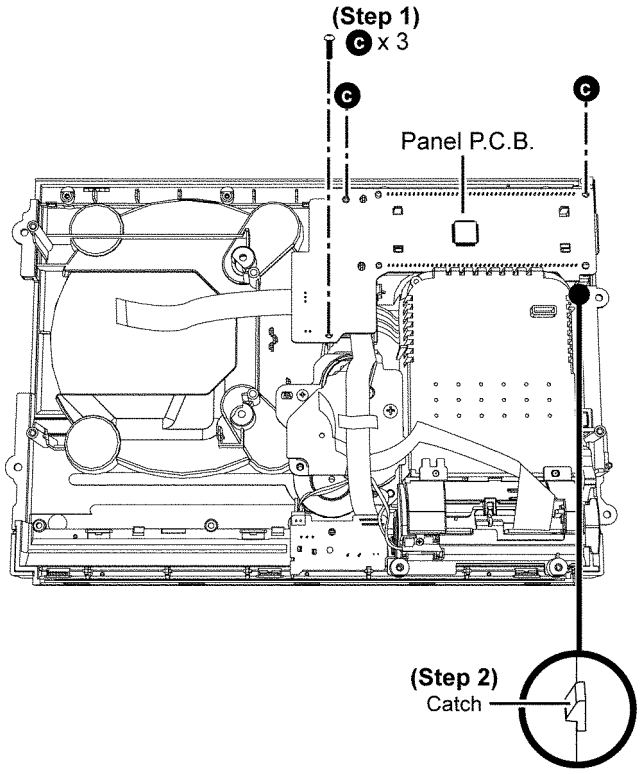
Caution : During assembling, ensure that the wires are pushed into the groove and dressed porperly as shown in the diagram below.



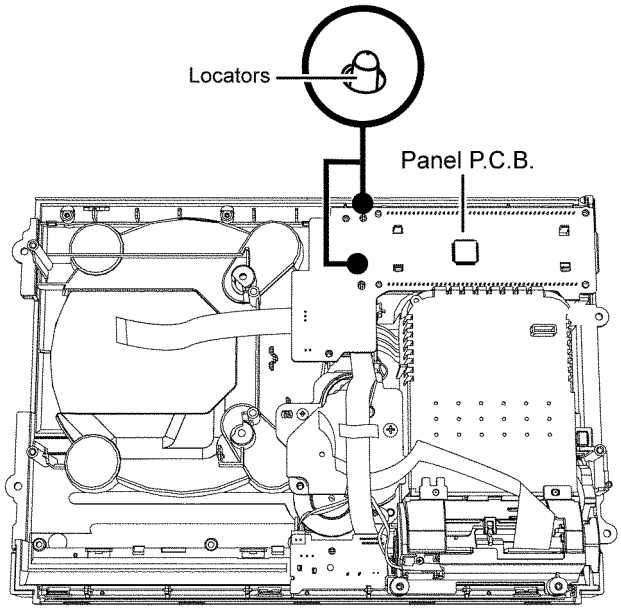
9.32. Disassembly of Panel P.C.B.

- Refer to “Disassembly of Stand Unit”.
- Refer to “Disassembly of CD Door Assembly”.
- Refer to “Disassembly of Net Frame Assembly”.
- Refer to “Disassembly of Front Panel Block”.

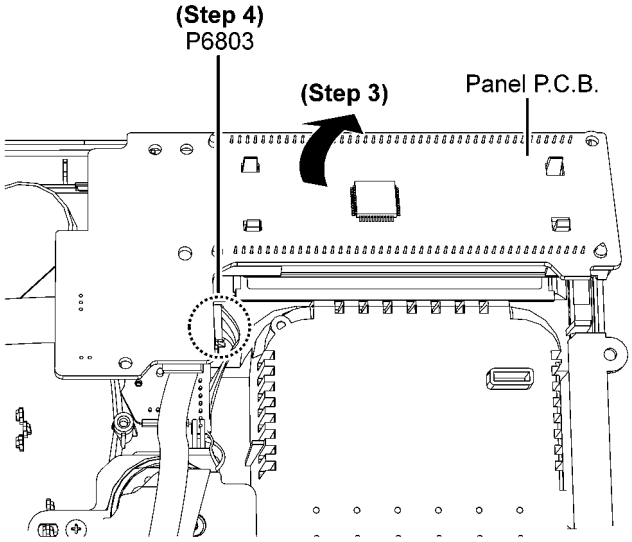
Step 1 : Remove 3 screws.
Step 2 : Release 1 catch.



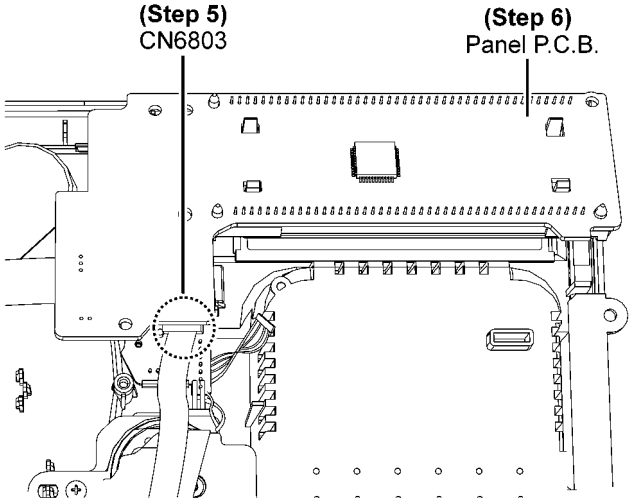
Caution : During assembling, ensure the Panel P.C.B. is seated properly on the locator and catch.



Step 3 : Lift up the Panel P.C.B..
Step 4 : Detach 7P wires at the connector (P6803) on the Panel P.C.B..



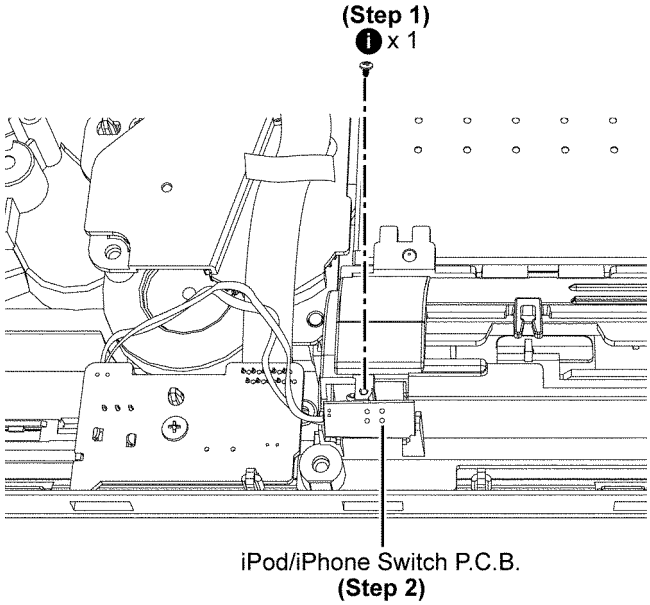
Step 5 : Detach 10P FFC at the connector (CN6803) on the Panel P.C.B..
Step 6 : Remove the Panel P.C.B..



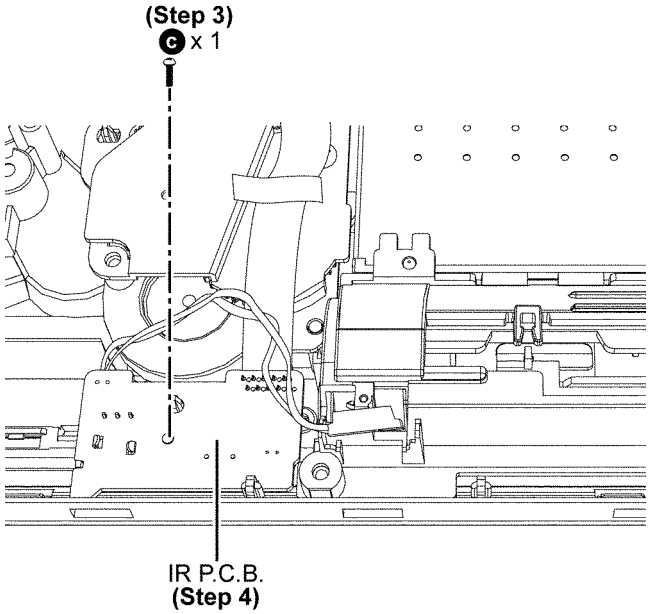
9.33. Disassembly of IR P.C.B. and iPod/iPhone Switch P.C.B.

- Refer to “Disassembly of Stand Unit”.
- Refer to “Disassembly of CD Door Assembly”.
- Refer to “Disassembly of Net Frame Assembly”.
- Refer to “Disassembly of Front Panel Block”.

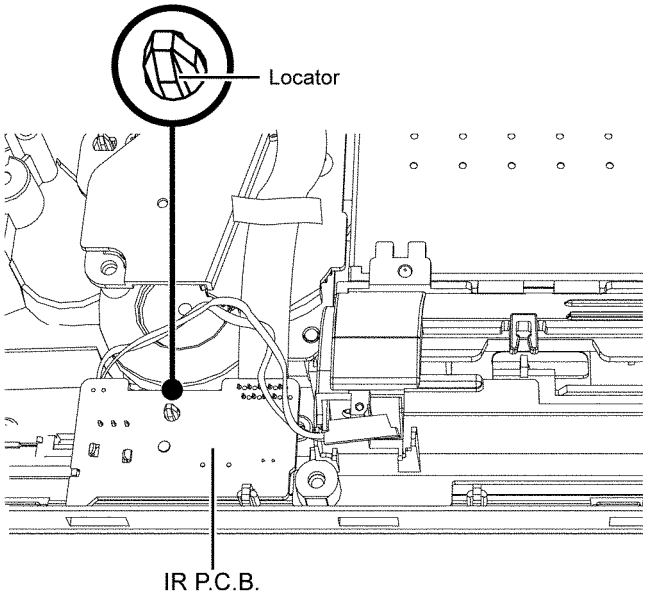
Step 1 : Remove 1 screw.
Step 2 : Lift up the iPod/iPhone Switch P.C.B..



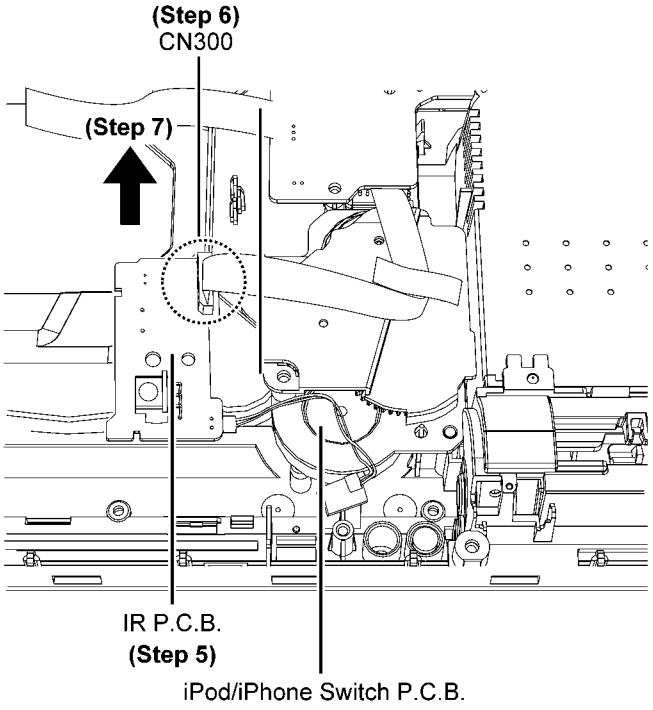
Step 3 : Remove 1 screw.
Step 4 : Lift up IR P.C.B..



Caution : During assembling, ensure the IR P.C.B. is seated properly on the locator.



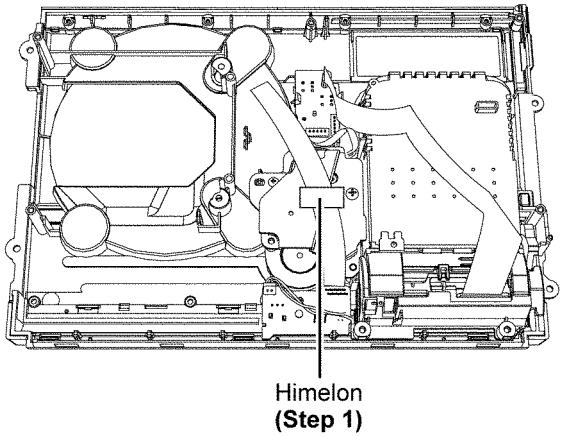
Step 5 : Upset the IR P.C.B..
Step 6 : Detach 10P FFC at the connector (CN300) on the IR P.C.B..
Step 7 : Remove the IR P.C.B. and iPod/iPhone Switch P.C.B..



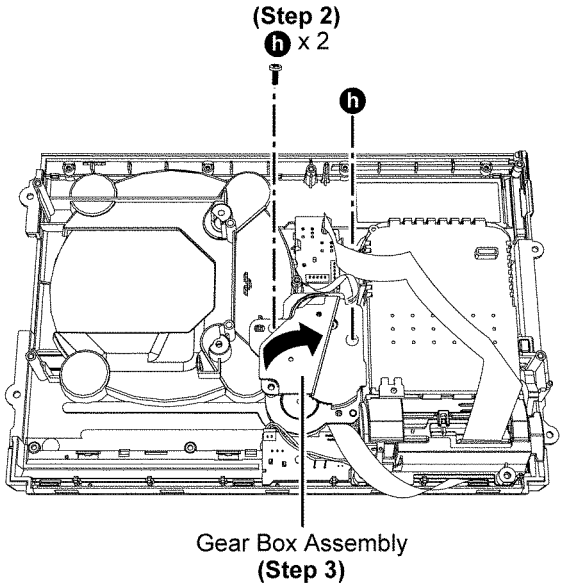
9.34. Disassembly of Motor P.C.B., Door Switch P.C.B. and Interlock Switch P.C.B.

- Refer to “Disassembly of Stand Unit”.
- Refer to “Disassembly of CD Door Assembly”.
- Refer to “Disassembly of Net Frame Assembly”.
- Refer to “Disassembly of Front Panel Block”.
- Refer to “Disassembly of Panel P.C.B.”.

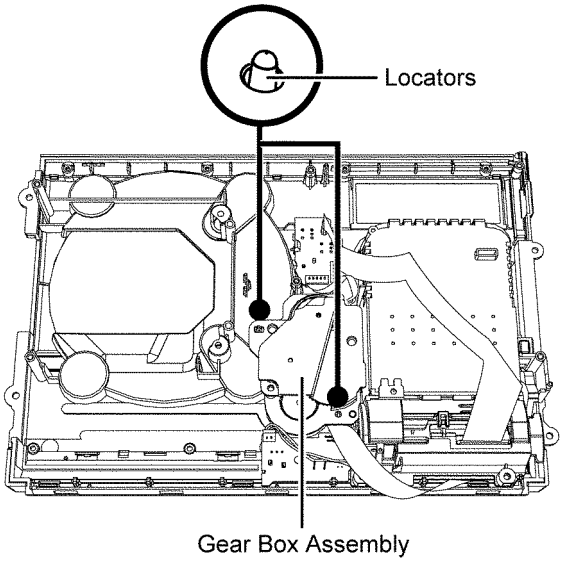
Step 1 : Lift up the himelon.
Caution : Replace the himelon if they are torn during disassembling.



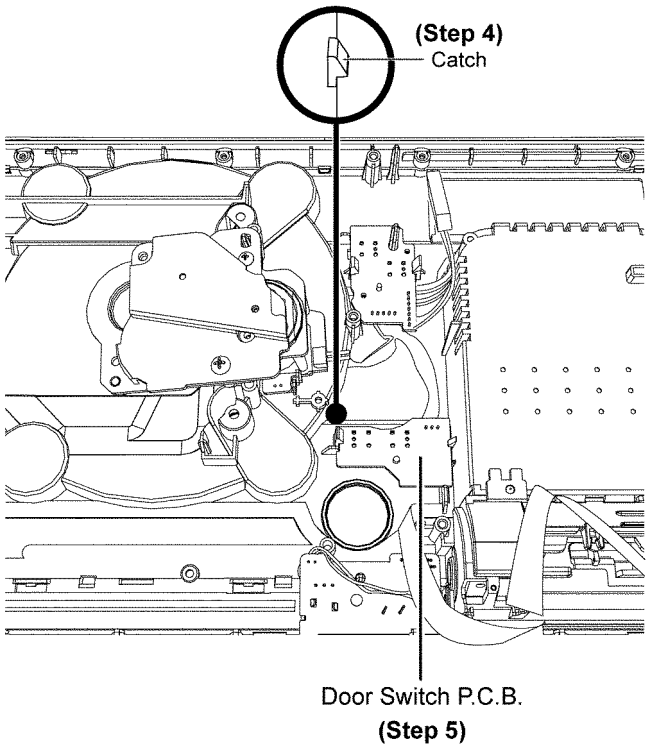
Step 2 : Remove 2 screws.
Step 3 : Lift up the Gear Box Assembly as arrow shown.



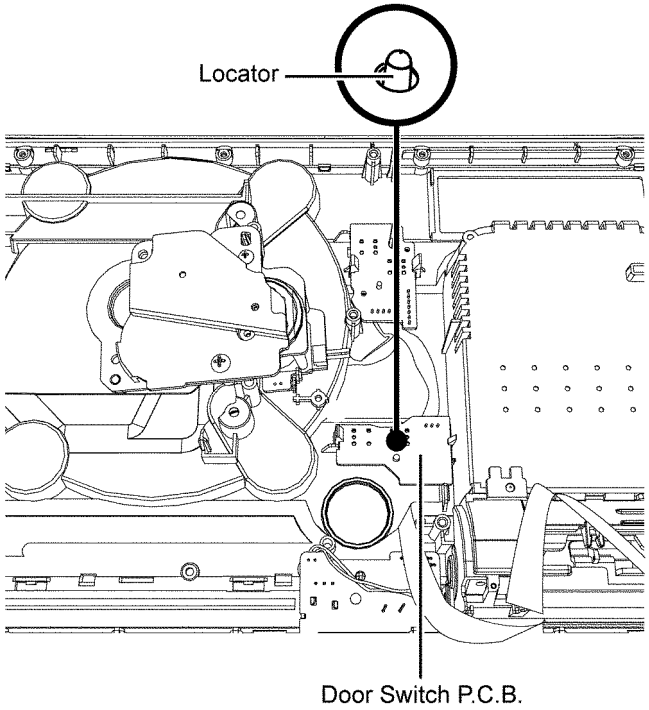
Caution : During assembling, ensure the Gear Box Assembly is seated properly on the locator.



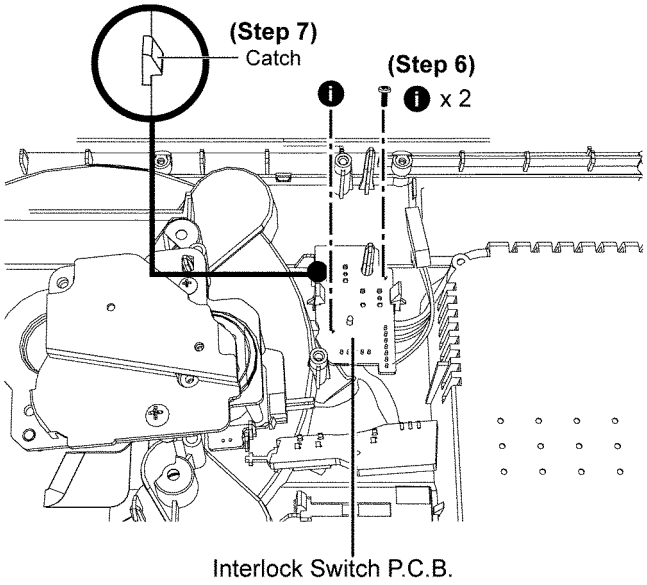
Step 4 : Release 1 catch.
Step 5 : Lift up Door Switch P.C.B..



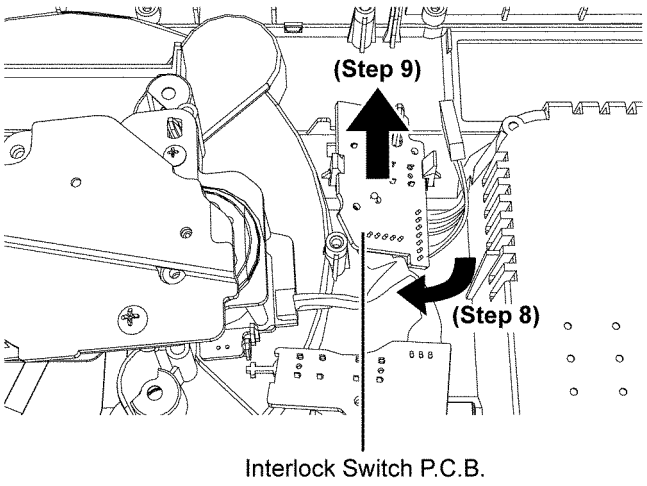
Caution : During assembling, ensure the Door Switch P.C.B. is seated properly on the locator.



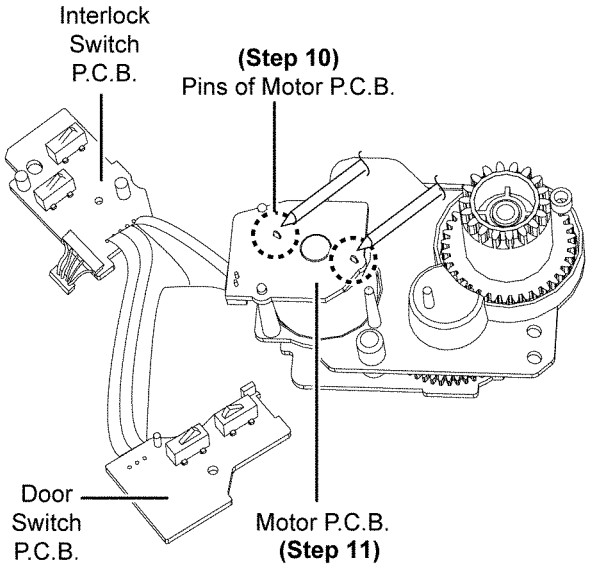
Step 6 : Remove 2 screw.
Step 7 : Release 1 catch.



Step 8 : Slightly rotate Interlock Switch P.C.B..
Step 9 : Lift up Interlock Switch P.C.B. as arrow shown.



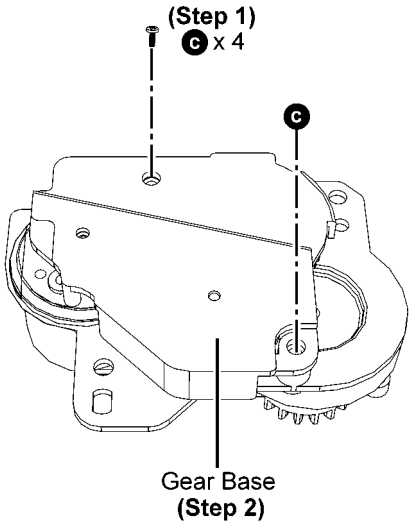
Step 10 : Desolder 2P on Motor P.C.B..
Step 11 : Remove the Motor P.C.B., Door Switch P.C.B. and Interlock Switch P.C.B. altogether.



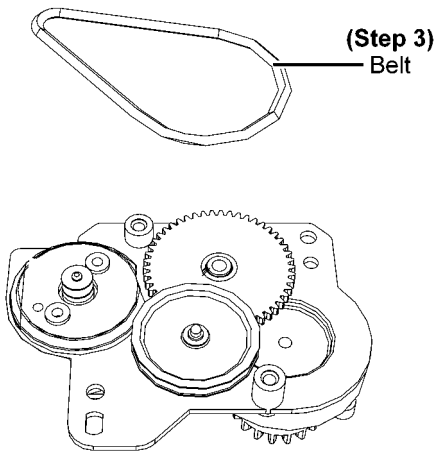
9.35. Disassembly of Motor Assembly

- Refer to “Disassembly of Stand Unit”.
- Refer to “Disassembly of CD Door Assembly”.
- Refer to “Disassembly of Net Frame Assembly”.
- Refer to “Disassembly of Front Panel Block”.
- Refer to “Disassembly of Panel P.C.B.”.
- Refer to “Disassembly of Motor P.C.B., Door Switch P.C.B. and Interlock Switch P.C.B.”.

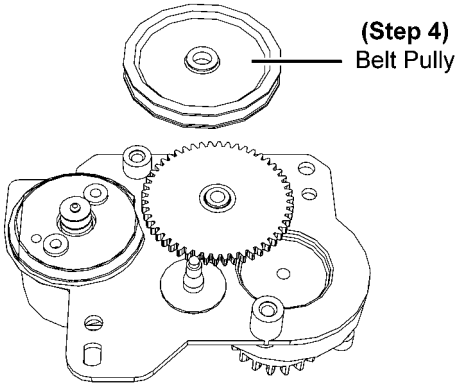
Step 1 : Remove 2 screws.
Step 2 : Remove the Gear Base.



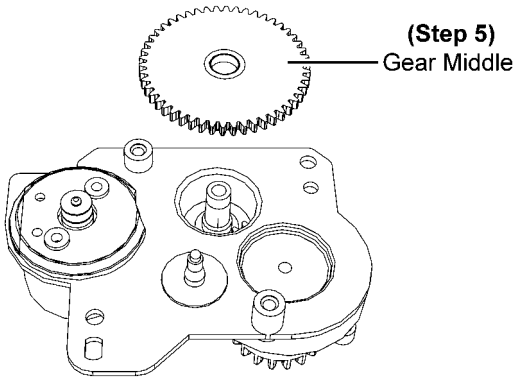
Step 3 : Remove the Belt.



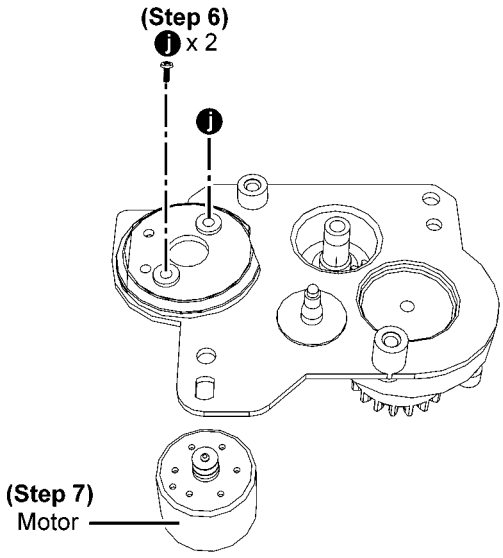
Step 4 : Remove the Belt Pully.



Step 5 : Remove the Gear Middle.



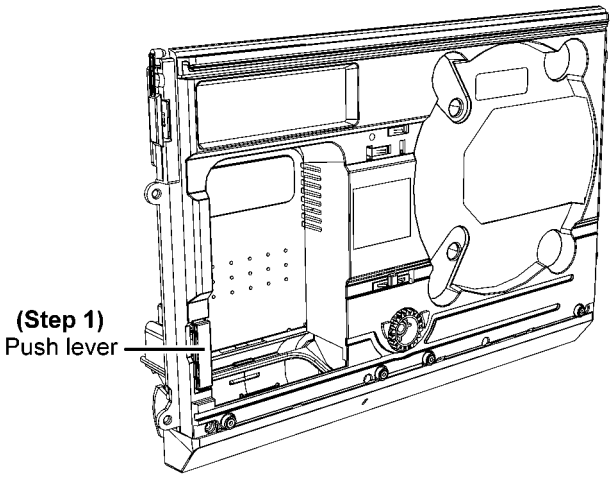
Step 6 : Remove 2 screws.
Step 7 : Remove the Motor.



9.36. Disassembly of iPod/iPhone P.C.B.

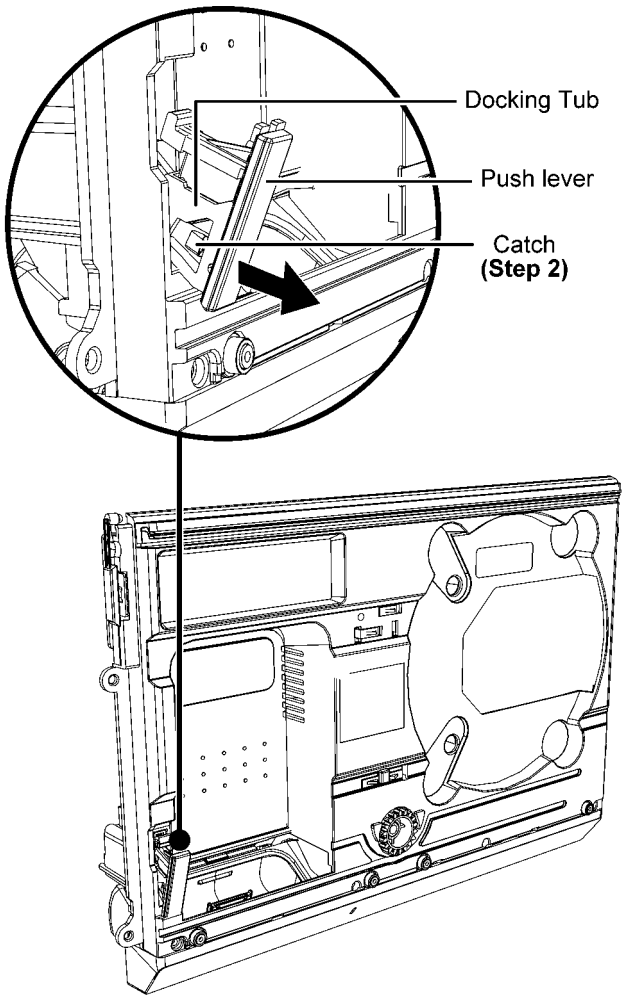
- Refer to “Disassembly of Stand Unit”.
- Refer to “Disassembly of CD Door Assembly”.
- Refer to “Disassembly of Net Frame Assembly”.
- Refer to “Disassembly of Front Panel Block”.
- Refer to (Step 1) - (Step 2) of item 9.33.

Step 1 : Press the push lever to release it.

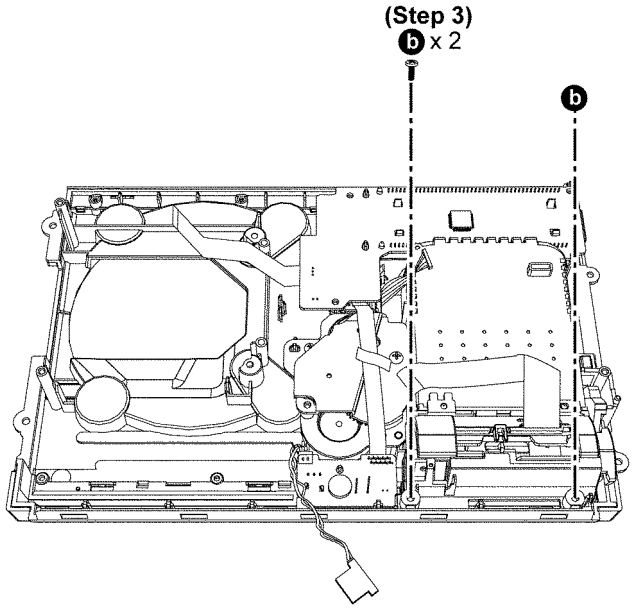


Step 2 : Release catch to remove push lever.

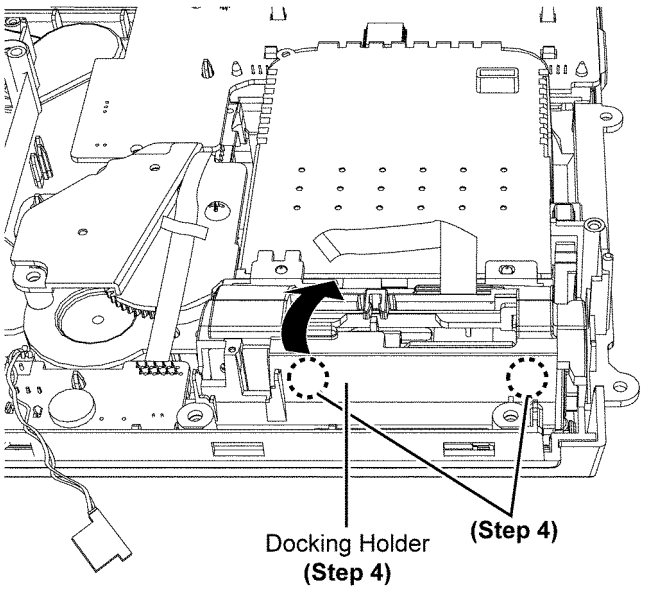
Caution : Do not excert strong force to the Push Lever during removal and assembly.



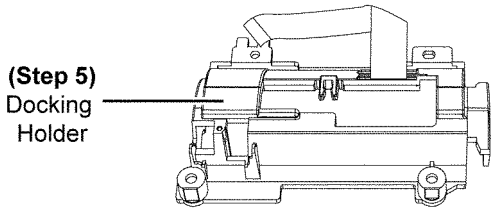
Step 3 : Remove 2 screws.

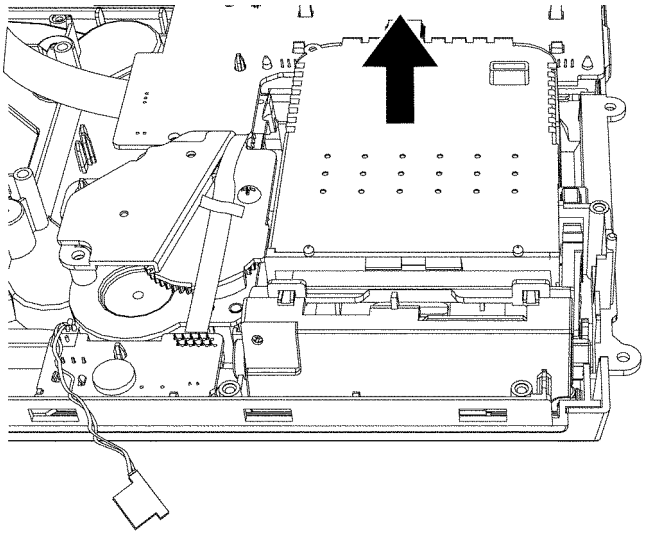


Step 4 : Press & lift up the Docking Holder.

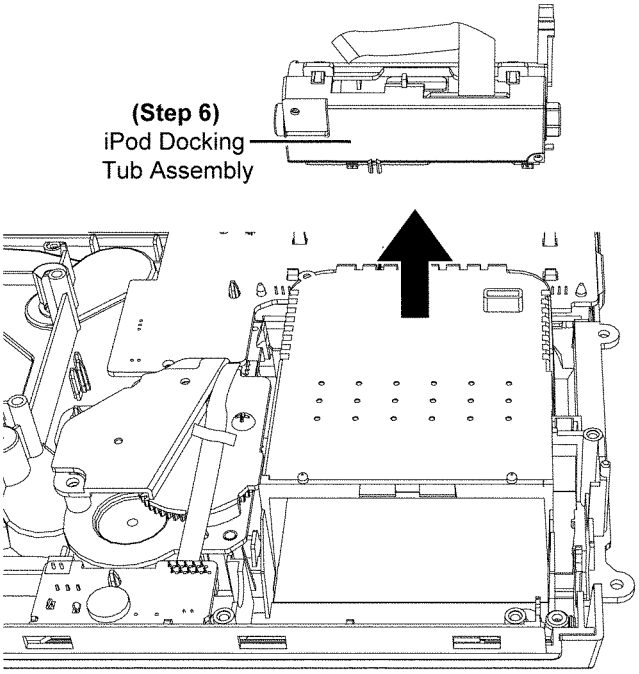


Step 5 : Remove the Docking Holder.

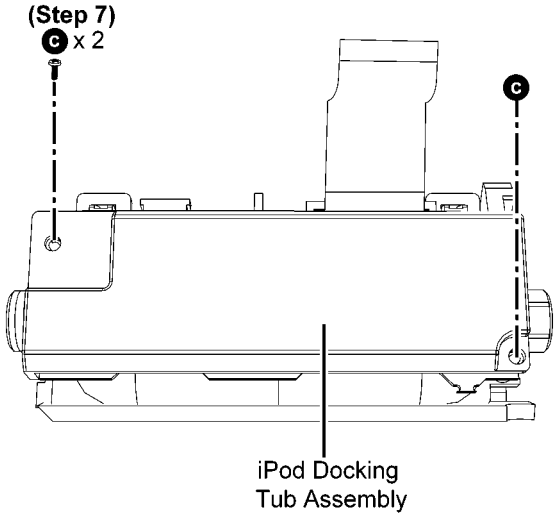




Step 6 : Remove the iPod Docking Tub Assembly.

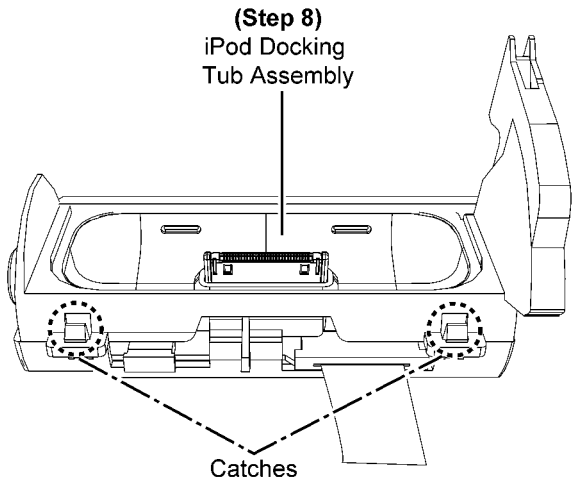


Step 7 : Remove 2 screws.

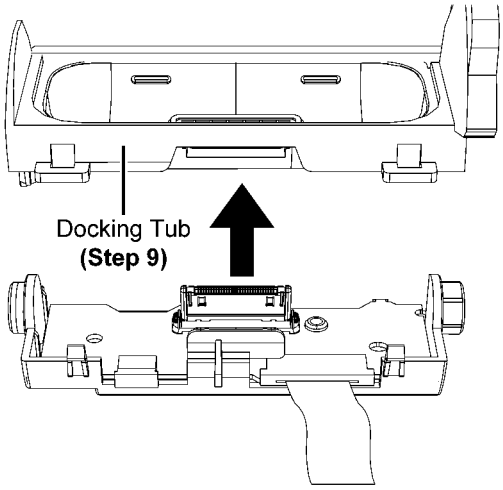


Step 8 : Release the 2 catches on the iPod Docking Tub Assembly.

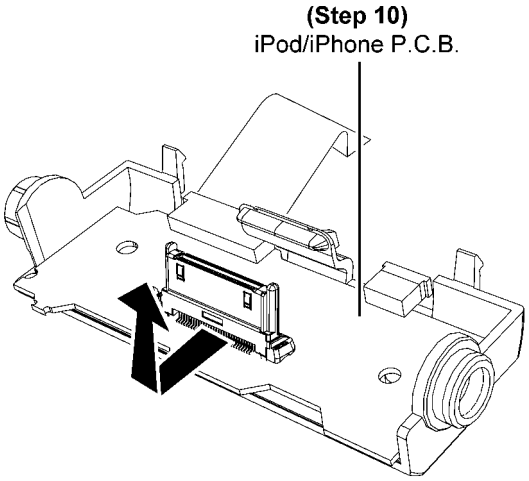
Caution : During assembling, ensure the catches are properly fixed.



Step 9 : Remove the Docking Tub.



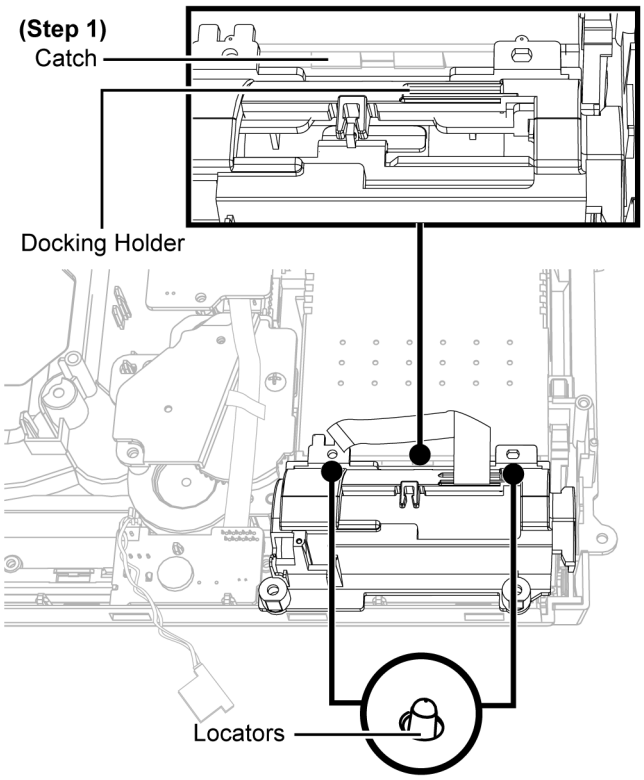
Step 10 : Remove the iPod/iPhone P.C.B. as arrow shown.



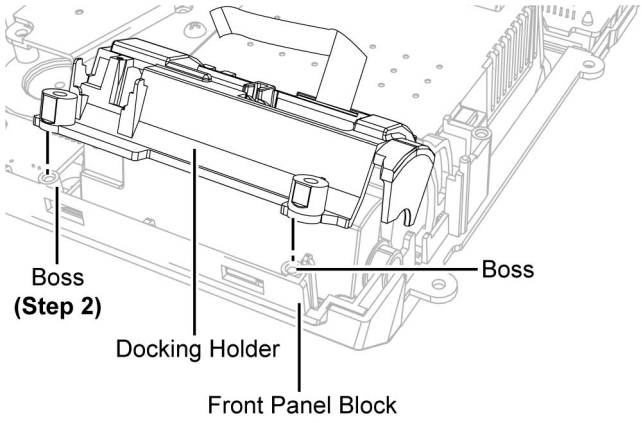
9.36.1. Assembly of Docking Holder

Step 1 : Place the docking holder underneath the catch.

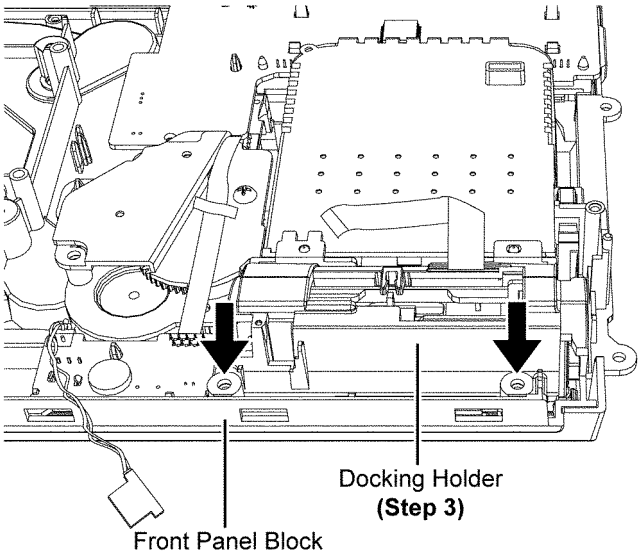
Caution : Using the 2 locaters as guides, ensure that the docking holder is properly located.



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



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

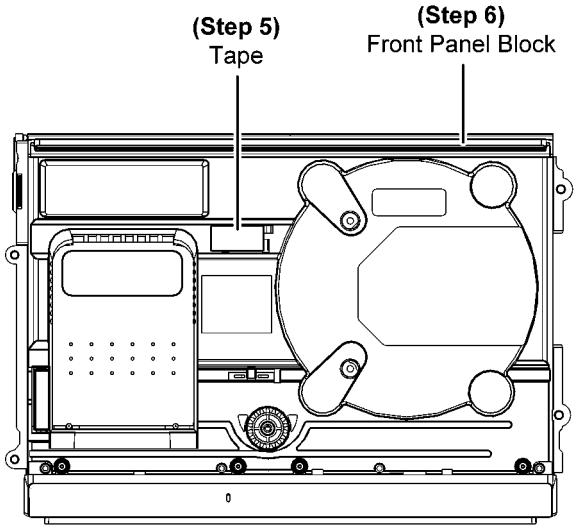


10 Service Position

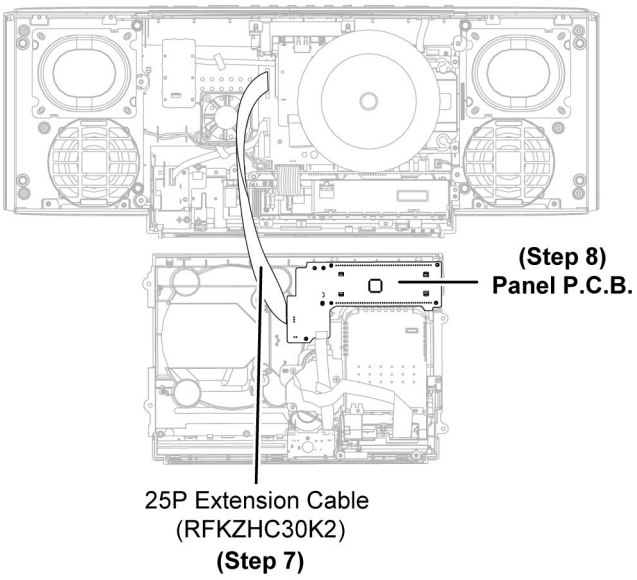
Note: For description of the disassembly procedures, see the Section 9

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

Step 1 : Remove the Stand Unit.
Step 2 : Remove the CD Door Assembly.
Step 3 : Remove the Net Frame Assembly.
Step 4 : Remove the Front Panel Block.
Step 5 : Use tape to keep the Switch depressed.
Step 6 : Flip over the Front Panel Block.

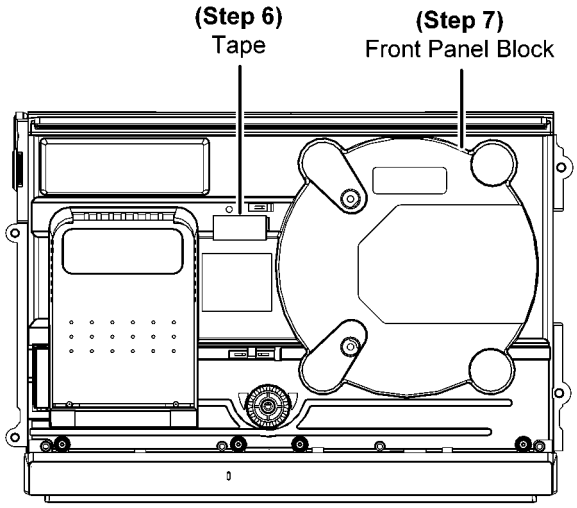


Step 7 : Connect 25P extension cable (RFKZHC30K2) from CN6801 on the Panel P.C.B. to CN900 on the Vertical Main P.C.B..
Step 8 : Check and repair the Panel P.C.B. according to the diagram shown.

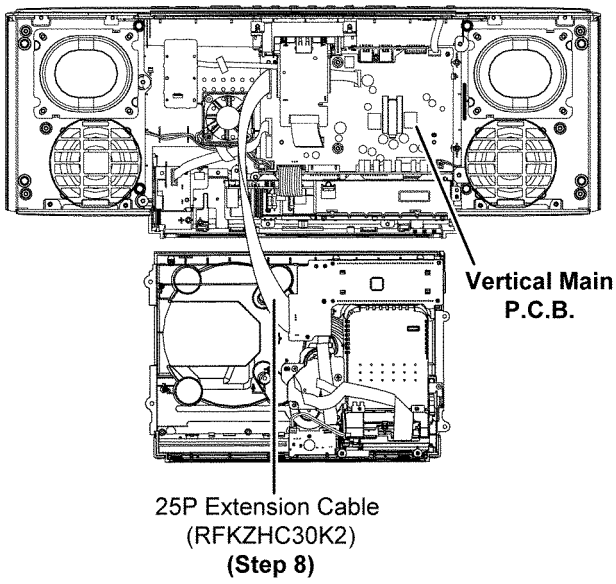


10.2. Checking & Repairing of CD Servo P.C.B.

Step 1 : Remove the Stand Unit.
Step 2 : Remove the CD Door Assembly.
Step 3 : Remove the Net Frame Assembly.
Step 4 : Remove the Front Panel Block.
Step 5 : Remove the Traverse Unit.
Step 6 : Use tape to keep the Switch depressed.
Step 7 : Flip over the Front Panel Block.

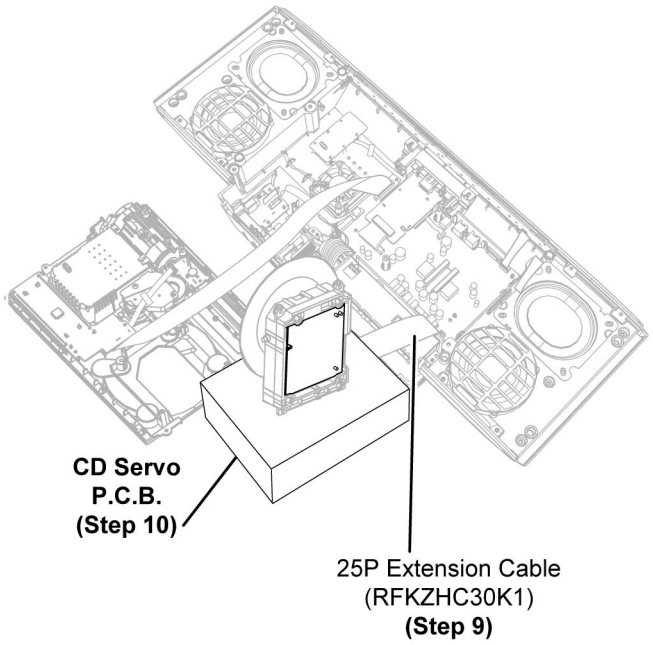


Step 8 : Connect 25P extension cable (RFKZHC30K2) from CN6801 on the Panel P.C.B. to CN900 on the Vertical Main P.C.B..



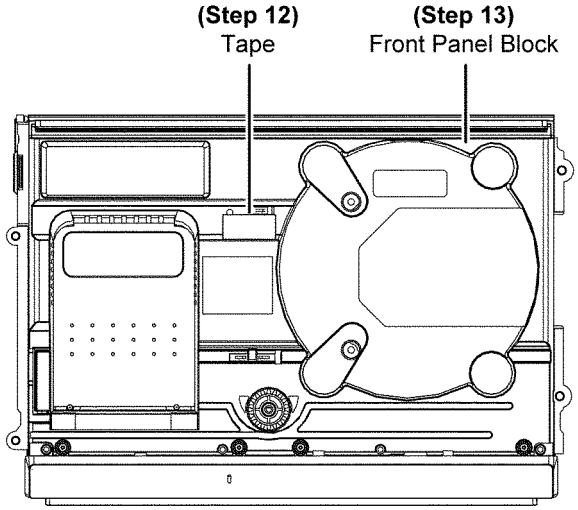
Step 9 : Connect 25P extension cable (RFKZHC30K1) from CN7002 on the CD Servo P.C.B. to CN7002 on the Vertical Main P.C.B..

Step 10 : Check and repair the CD Servo P.C.B. according to the diagram shown.

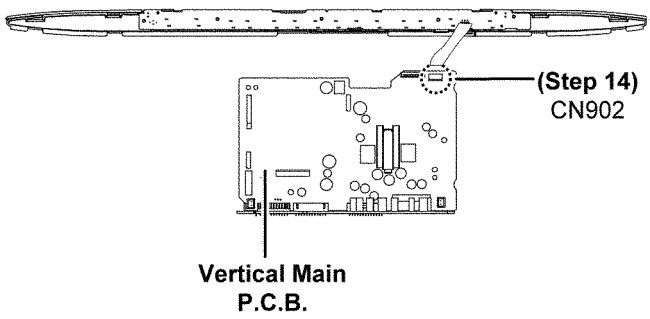


10.3. Checking & Repairing of SMPS P.C.B.

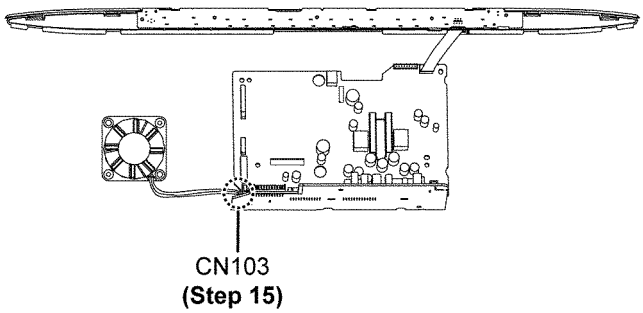
Step 1 : Remove the Stand Unit.
Step 2 : Remove the CD Door Assembly.
Step 3 : Remove the Net Frame Assembly.
Step 4 : Remove the Front Panel Block.
Step 5 : Remove the Top Ornament.
Step 6 : Remove the Traverse Unit.
Step 7 : Remove the USB P.C.B..
Step 8 : Remove the Headphone/Aux P.C.B..
Step 9 : Remove the PCB Block.
Step 10 : Remove the SMPS P.C.B..
Step 11 : Remove the Fan Unit.
Step 12 : Use tape to keep the Switch depressed.
Step 13 : Flip over the Front Panel Block.



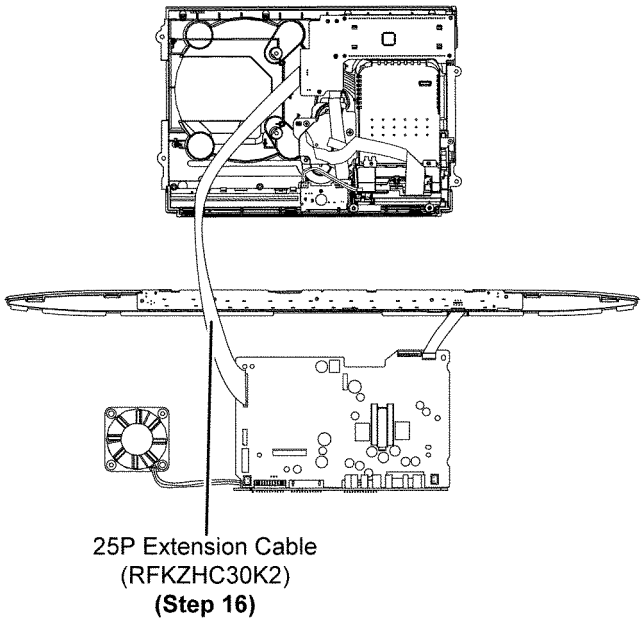
Step 14 : Connect 7P FFC at the connector (CN902) on the Vertical Main P.C.B..



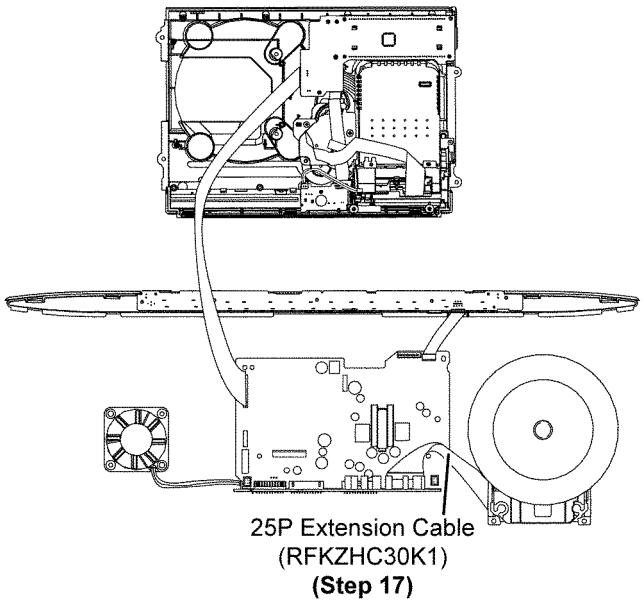
Step 15 : Connect 2P wire at the connector (CN103) on the Horizontal Main P.C.B..



Step 16 : Connect 25P extension cable (RFKZHC30K2) from CN6801 on the Panel P.C.B. to CN900 on the Vertical Main P.C.B..

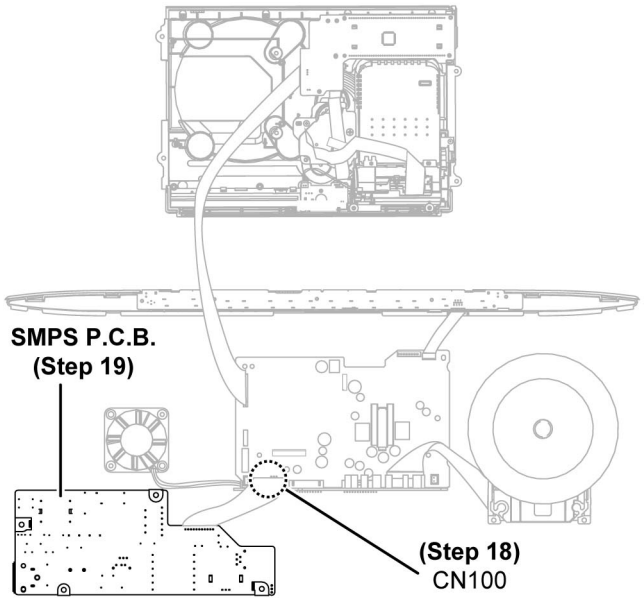


Step 17 : Connect 25P extension cable (RFKZHC30K1) from CN7002 on the CD Servo P.C.B. to CN7002 on the Vertical Main P.C.B..



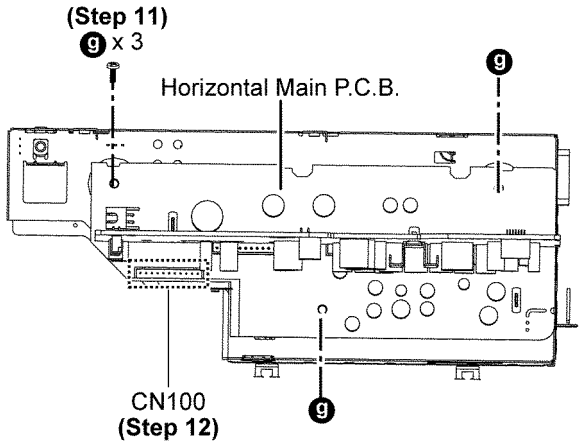
Step 18 : Connect 11P cable at the connector (CN100) on the Horizontal Main P.C.B..

Step 19 : Check and repair the SMPS P.C.B. according to the diagram shown.

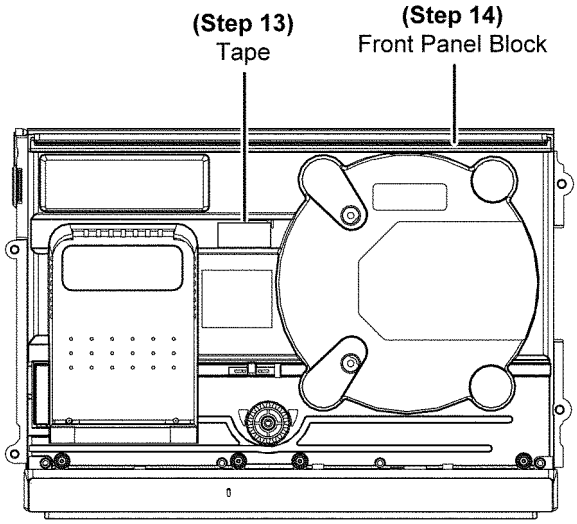


10.4. Checking & Repairing of Horizontal Main P.C.B.

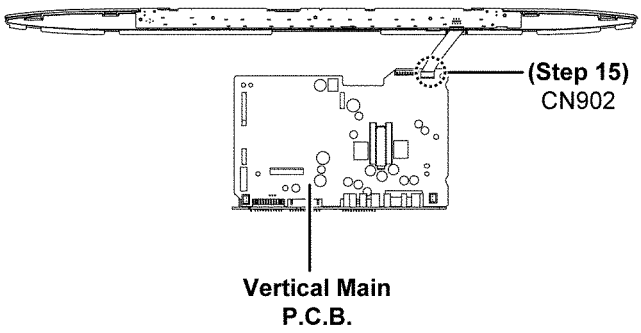
Step 1 : Remove the Stand Unit.
Step 2 : Remove the CD Door Assembly.
Step 3 : Remove the Net Frame Assembly.
Step 4 : Remove the Front Panel Block.
Step 5 : Remove the Top Ornament.
Step 6 : Remove the Traverse Unit.
Step 7 : Remove the USB P.C.B..
Step 8 : Remove the Headphone/Aux P.C.B..
Step 9 : Remove the PCB Block.
Step 10 : Remove the Fan Unit.
Step 11 : Remove 3 screws.
Step 12 : Detach 11P cable at the connector (CN100) on the Horizontal Main P.C.B...



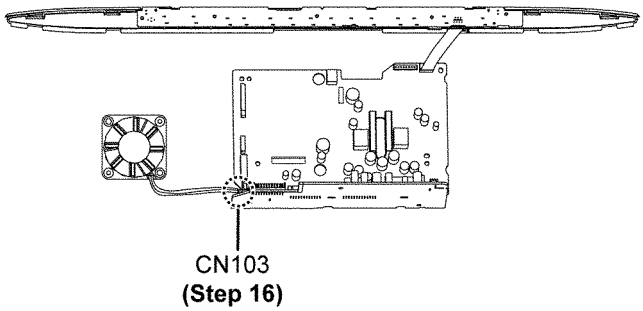
Step 13 : Use tape to keep the Switch depressed.
Step 14 : Flip over the Front Panel Block.



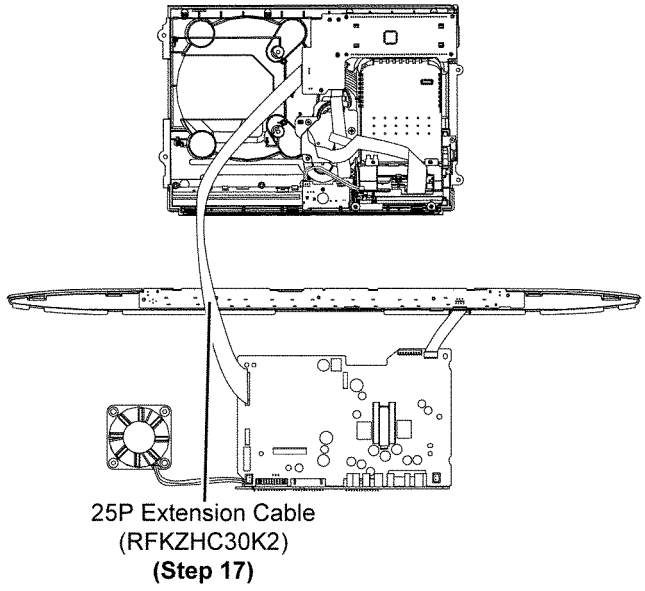
Step 15 : Connect 7P FFC at the connector (CN902) on the Vertical Main P.C.B..



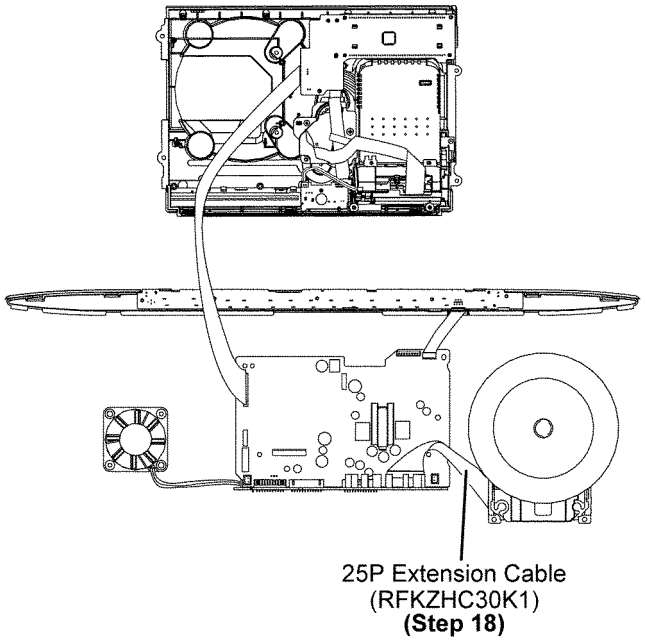
Step 16 : Connect 2P wire at the connector (CN103) on the Horizontal Main P.C.B..



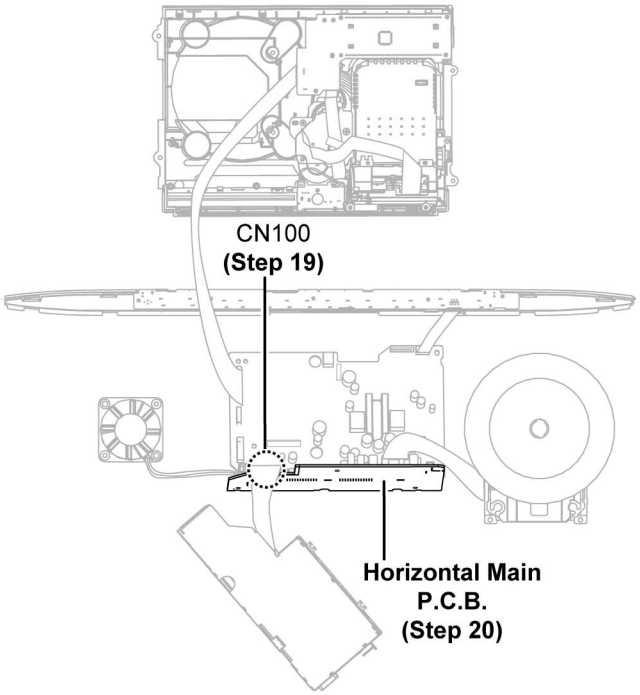
Step 17 : Connect 25P extension cable (RFKZHC30K2) from CN6801 on the Panel P.C.B. to CN900 on the Vertical Main P.C.B..



Step 18 : Connect 25P extension cable (RFKZHC30K1) from CN7002 on the CD Servo P.C.B. to CN7002 on the Vertical Main P.C.B..

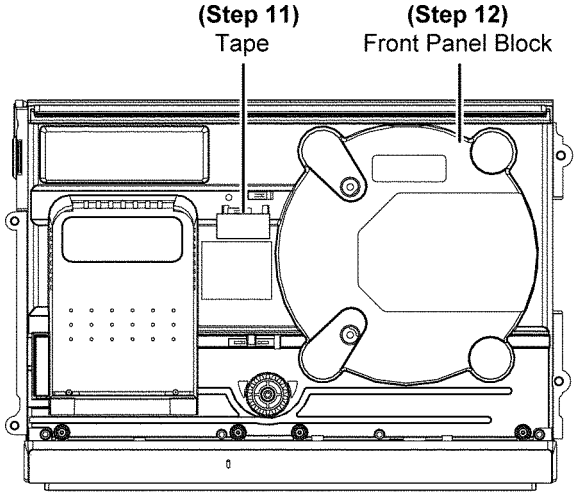


Step 19 : Connect 11P cable at the connector (CN100) on the Horizontal Main P.C.B..
Step 20 : Check and repair the Horizontal Main P.C.B. according to the diagram shown.

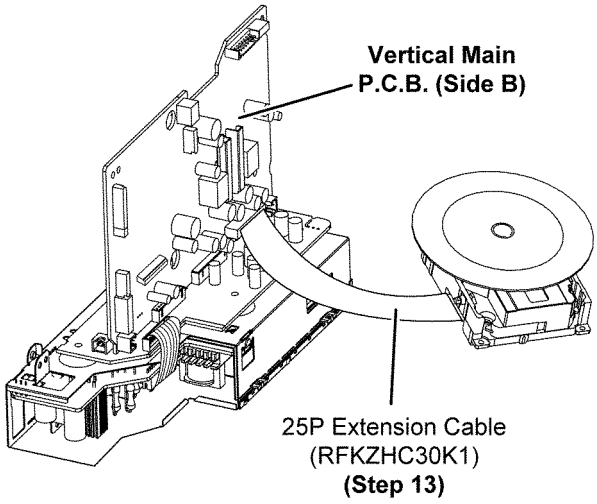


10.5. Checking & Repairing of Vertical Main P.C.B. (Side A)

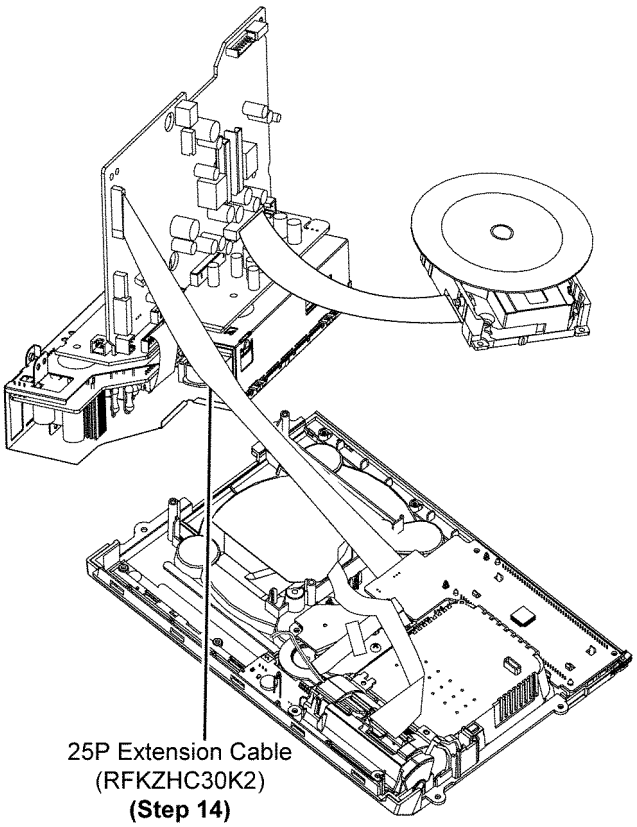
Step 1 : Remove the Stand Unit.
Step 2 : Remove the CD Door Assembly.
Step 3 : Remove the Net Frame Assembly.
Step 4 : Remove the Front Panel Block.
Step 5 : Remove the Top Ornament.
Step 6 : Remove the Traverse Unit.
Step 7 : Remove the USB P.C.B..
Step 8 : Remove the Headphone/Aux P.C.B..
Step 9 : Remove the PCB Block.
Step 10 : Remove the Fan Unit.
Step 11 : Use tape to keep the Switch depressed.
Step 12 : Flip over the Front Panel Block.



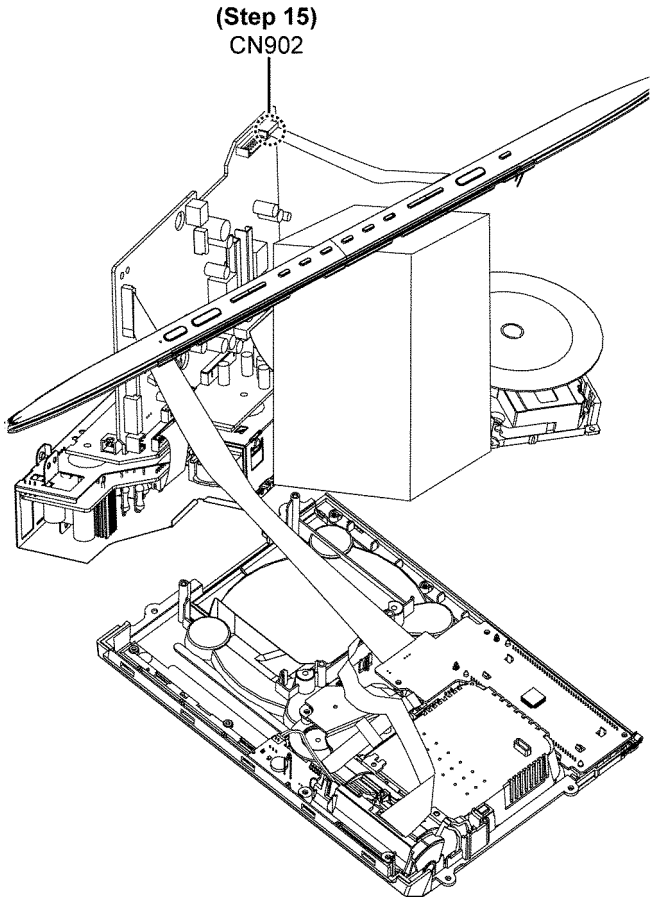
Step 13 : Connect 25P extension cable (RFKZHC30K1) from CN7002 on the CD Servo P.C.B. to CN7002 on the Vertical Main P.C.B..



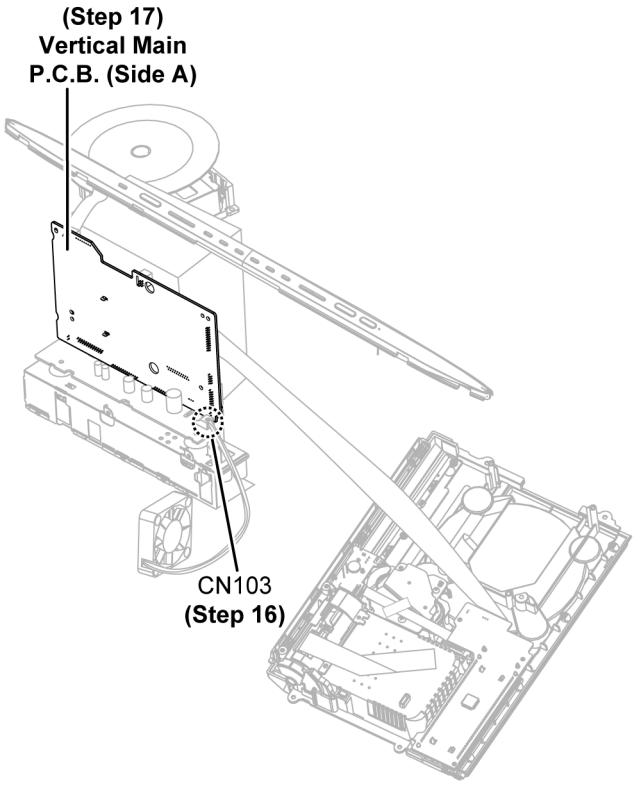
Step 14 : Connect 25P extension cable (RFKZHC30K2) from CN6801 on the Panel P.C.B. to CN900 on the Vertical Main P.C.B..



Step 15 : Connect 7P FFC at the connector (CN902) on the Vertical Main P.C.B..

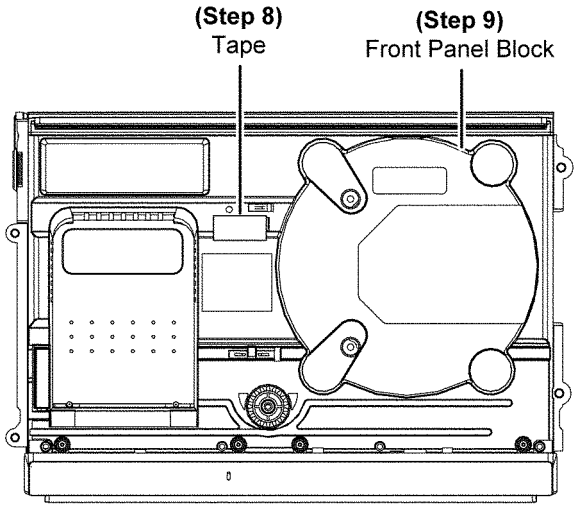


Step 16 : Connect 2P wire at the connector (CN103) on the Horizontal Main P.C.B..
Step 17 : Check and repair the Vertical Main P.C.B. (Side A) according to the diagram shown.

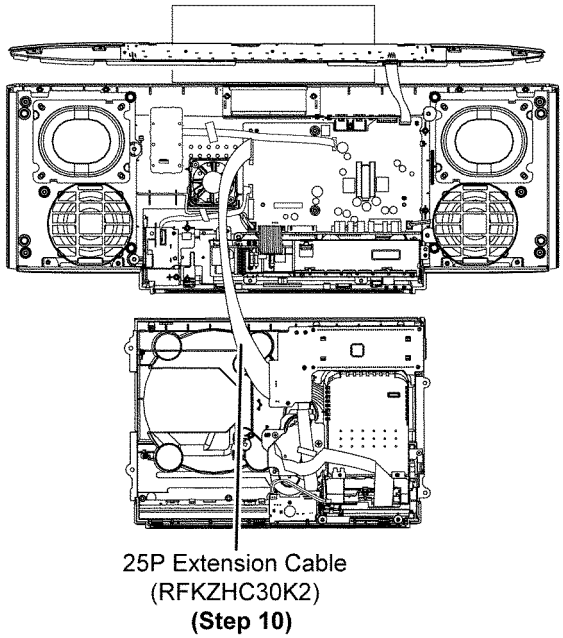


10.6. Checking & Repairing of Vertical Main P.C.B. (Side B)

Step 1 : Remove the Stand Unit.
Step 2 : Remove the CD Door Assembly.
Step 3 : Remove the Net Frame Assembly.
Step 4 : Remove the Front Panel Block.
Step 5 : Remove the Top Ornament.
Step 6 : Remove the Traverse Unit.
Step 7 : Remove the USB P.C.B..
Step 8: Use tape to keep the Switch depressed.
Step 9 : Flip over the Front Panel Block.

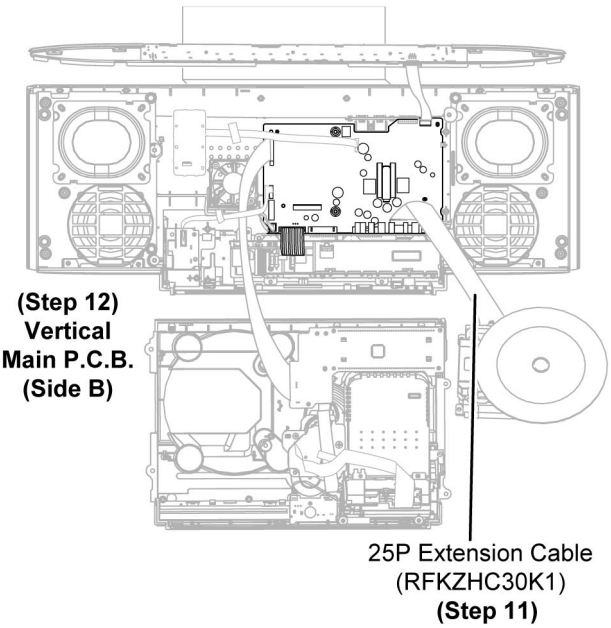


Step 10 : Connect 25P extension cable (RFKZHC30K2) from CN6801 on the Panel P.C.B. to CN900 on the Vertical Main P.C.B..



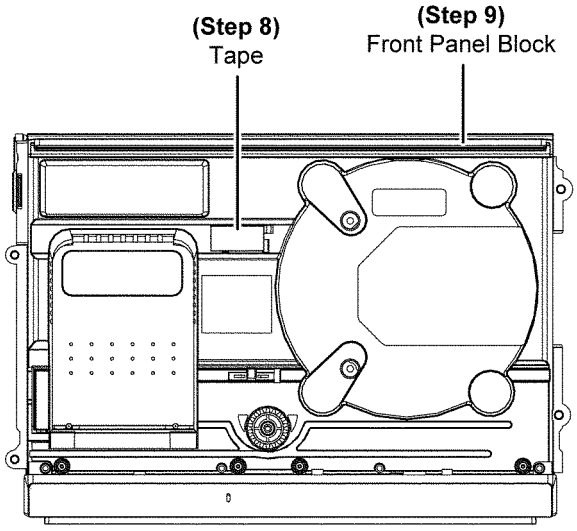
Step 11 : Connect 25P extension cable (RFKZHC30K1) from CN7002 on the CD Servo P.C.B. to CN7002 on the Vertical Main P.C.B..

Step 12 : Check and repair the Vertical Main P.C.B. (Side B) according to the diagram shown.

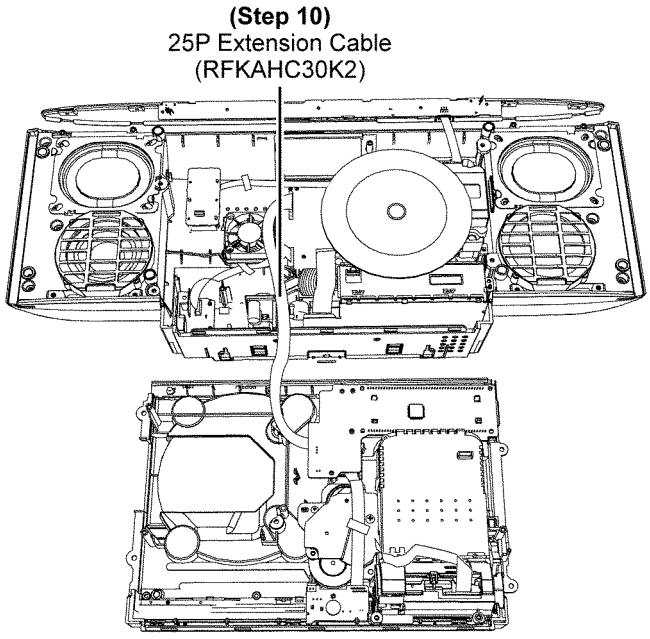


10.7. Checking & Repairing of USB P.C.B.

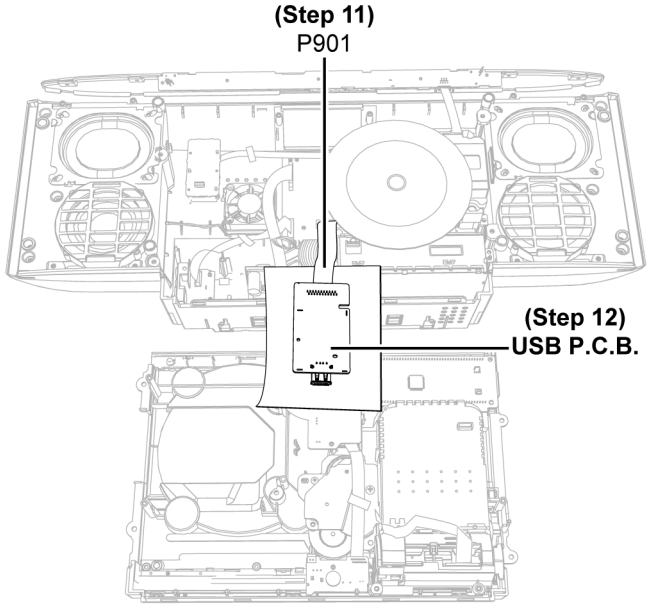
Step 1 : Remove the Stand Unit.
Step 2 : Remove the CD Door Assembly.
Step 3 : Remove the Net Frame Assembly.
Step 4 : Remove the Front Panel Block.
Step 5 : Remove the Top Ornament.
Step 6 : Remove the Traverse Unit.
Step 7 : Remove the USB P.C.B..
Step 8: Use tape to keep the Switch depressed.
Step 9 : Flip over the Front Panel Block.



Step 10 : Connect 25P extension cable (RFKZHC30K2) from CN6801 on the Panel P.C.B. to CN900 on the Vertical Main P.C.B..



Step 11 : Connect 22P FFC at the connector (P901) on the USB P.C.B..
Step 12 : Check and repair the USB P.C.B..



11 Voltage Measurement & Waveform Chart

Note:

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard.
  Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
- Circuit voltage and waveform described herein shall be regarded as reference information when probing defect point because it may differ from actual measuring value due to difference of Measuring instrument and its measuring condition and product itself.

11.1. CD SERVO P.C.B.

REF NO.	IC7001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0.3	1.0	1.3	1.3	1.0	1.4	1.0	0	3.3	3.0	1.0	1.4	1.8	2.5	1.0	0	0	0	3.3	1.8
STANDBY	0.3	1.0	1.3	1.3	1.0	1.4	1.0	0	3.3	3.0	1.0	1.4	1.8	2.5	1.0	0	0	0	3.3	1.8

REF NO.	IC7001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	1.6	0	1.8	1.8	2.0	0	3.3	1.5	3.3	3.3	0	1.7	1.8	1.8	2.0	2.0	1.8	1.7	1.7	1.7
STANDBY	1.6	0	1.8	1.8	2.0	0	3.3	1.5	3.3	3.3	0	1.7	1.8	1.8	2.0	2.0	1.8	1.7	1.7	1.7

REF NO.	IC7001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0.2	2.5	2.0	0	0	0	3.3	1.0	0	1.2	1.6	0	0	1.4	1.5	1.5	0	3.0	1.5	0
STANDBY	0.2	2.5	2.0	0	0	0	3.3	1.0	0	1.2	1.6	0	0	1.4	1.5	1.5	0	3.0	1.5	0

REF NO.	IC7001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	2.7	0.6	0	0.6	0	0	3.0	3.0	3.2	1.3	0	3.3	0	0	0	1.6	3.2	0	3.2	1.6
STANDBY	2.7	0.6	0	0.6	0	0	3.0	3.0	3.2	1.3	0	3.3	0	0	0	1.6	3.2	0	3.2	1.6

REF NO.	IC7001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	1.6	1.6	0	1.3	0	1.3	0	0	0	0	0	0	3.2	0	0	0	0	0	0	0
STANDBY	1.6	1.6	0	1.3	0	1.3	0	0	0	0	0	0	3.2	0	0	0	0	0	0	0

REF NO.	IC7002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	1.6	0	1.5	0	0	0	0	0	0	7.5	3.2	3.2	3.2	3.2	2.8	3.8	3.2	3.2	7.5	0
STANDBY	1.6	0	1.5	0	0	0	0	0	0	7.5	3.2	3.2	3.2	3.2	2.8	3.8	3.2	3.2	7.5	0

REF NO.	IC7002																			
MODE	21	22	23	24	25	26	27	28	29	30										
CD PLAY	7.5	0	0	0	7.1	1.6	1.6	1.6	0	0										
STANDBY	7.5	0	0	0	7.1	1.6	1.6	1.6	0	0										

REF NO.	IC7003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.3	0	1.3	1.3	0.3	0	0	1.0	2.5	1.8	1.4	1.0	3.3	0	1.0	1.4	1.0	1.3	1.3	0
STANDBY	3.3	0	1.3	1.3	0.3	0	0	1.0	2.5	1.8	1.4	1.0	3.3	0	1.0	1.4	1.0	1.3	1.3	0

REF NO.	IC7003																			
MODE	21	22	23	24	25	26														
CD PLAY	1.0	0	3.3	0	1.3	0														
STANDBY	1.0	0	3.3	0	1.3	0														

REF NO.	Q7601																			
MODE	E	C	B																	
CD PLAY	3.1	2.0	2.4																	
STANDBY	3.1	2.0	2.4																	

SC-HC40PC CD SERVO P.C.B.

11.2. VERTICAL MAIN P.C.B. (1/3)

REF NO.	IC1																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	3.5	6.6	0.4	3.5	0	16.9	16.9	0	0	0	0	0	0	16.9	16.9	0	0	0	9.0
STANDBY	0	3.5	6.6	0.4	3.5	0	16.9	16.9	0	0	0	0	0	0	16.9	16.9	0	0	0	9.0

REF NO.	IC1																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	9.1	0	0	0	5.1	0	0	0	16.9	16.9	0	0	0	0	0	0	16.9	16.9	0	16.9
STANDBY	9.1	0	0	0	5.1	0	0	0	16.9	16.9	0	0	0	0	0	0	16.9	16.9	0	16.9

REF NO.	IC1																			
MODE	41	42	43	44																
CD PLAY	0	0	0	0																
STANDBY	0	0	0	0																

REF NO.	IC101																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.7	0	0	0	3.3	3.3
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.7	0	0	0	3.3	3.3

REF NO.	IC101																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	9.2	0	4.7	4.7	0	0	0	0	0	0	0	0	0.3	0	0	0	0	0	0	0
STANDBY	9.2	0	4.7	4.7	0	0	0	0	0	0	0	0	0.3	0	0	0	0	0	0	0

REF NO.	IC101																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52								
CD PLAY	0	0	0	0	0	0	0	0	0	0	0	0								
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0								

REF NO.	IC103																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	0	0	0	0	15.4												
STANDBY	0	0	0	0	0	0	0	15.4												

REF NO.	IC300																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	3.3	0	0	3.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STANDBY	0	3.3	0	0	3.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REF NO.	IC302																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	4.6	4.7	4.6	0	4.6	4.7	4.6	9.2												
STANDBY	4.6	4.7	4.6	0	4.6	4.7	4.6	9.2												

REF NO.	IC503																			
MODE	1	2	3	4	5															
CD PLAY	4.5	0	2.8	0	3.3															
STANDBY	4.7	0	2.8	0	3.3															

SC-HC40PC VERTICAL MAIN P.C.B.

11.3. VERTICAL MAIN P.C.B. (2/3)

REF NO.	IC601																			
MODE	1	2	3																	
CD PLAY	0	4.3	3.3																	
STANDBY	0	4.3	3.3																	

REF NO.	IC650																			
MODE	1	2	3	4	5	6	7	8	9											
CD PLAY	1.2	0	1.3	0	0	5.8	1.1	0	1.1											
STANDBY	1.2	0	1.3	0	0	5.8	1.2	0	1.2											

REF NO.	IC800																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	0	0	0	0	3.3												
STANDBY	0	0	0	0	0	0	0	3.3												

REF NO.	IC801																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	1.5	3.3	0	0	3.2	0	0	0	0	1.5	1.5	0	1.1	1.7	3.3	1.8	3.3	1.3
STANDBY	0	0	1.5	3.3	0	0	3.2	0	0	0	0	1.5	1.5	0	1.2	1.7	3.3	1.8	3.3	1.3

REF NO.	IC801																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	0	0	0	3.3	0	0	0	0	0	0	0	0	0	0	0	1.8	0	0	3.3
STANDBY	0	0	0	0	3.3	0	0	0	0	0	0	0	0	0	0	0	1.8	0	0	3.3

REF NO.	IC801																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	3.3	3.3	3.3	3.3	0	3.3	0	3.3	0	0	0	0	0	0	0	0	0	3.3	0	0
STANDBY	3.3	3.3	3.3	3.3	3.3	3.3	0	3.3	0	0	0	0	0	0	0	0	0	3.3	0	0

REF NO.	IC801																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	0	3.3	0	0	0	0	0	0	0	0	0	3.1	0.5	2.9	0	3.3	0	0	0	3.3
STANDBY	0	3.3	0	0	0	0	0	0	0	0	0	3.3	0	3.3	0	3.3	0	0	0	3.3

REF NO.	IC801																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	0	0	0	0	0	3.3	3.0	3.3	3.3	0	0	3.3	0	3.3	3.3	3.3	0.3	0	1.8	3.3
STANDBY	0	0	0	0	0	3.3	3.0	3.3	3.3	0	0	3.3	0	3.3	3.3	3.3	0.3	0	0	3.3

REF NO.	IC802																			
MODE	1	2	3	4	5															
CD PLAY	4.7	0	4.7	0	3.3															
STANDBY	4.7	0	4.7	0	3.3															

REF NO.	IC803																			
MODE	1	2	3	4																
CD PLAY	3.3	3.3	0	0																
STANDBY	3.3	3.3	0	0																

SC-HC40PC VERTICAL MAIN P.C.B.

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

REF NO.	IC2801																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	-7.0	0	0	0	6.9												
STANDBY	0	0	0	-7.0	0	0	0	6.9												

REF NO.	IC2802																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	-7.0	0	0	0	6.9												
STANDBY	0	0	0	-7.0	0	0	0	6.9												

REF NO.	Q102							Q106							Q300					
MODE	1	2	3	4	5	6		1	2	3	4	5	6		S	D	G			
CD PLAY	0	0	0	0	0	0		0	-1.0	0	0	-0.8	0		0	0	3.3			
STANDBY	0	0.6	0	0	0.6	0		0	0.6	0	0	0.6	0		0	0	3.3			

REF NO.	Q301				Q302				Q303				Q382				Q580			
MODE	S	D	G		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	0	3.3		0	3.3	0		3.3	0	0		2.1	2.1	0		0	3.3	0	
STANDBY	0	0	3.3		0	3.3	0		3.3	0	0		0	0	0		0	3.3	0	

REF NO.	QR1				QR2				QR3				QR4				QR101			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	0.9	0		0	9.1	0		0	3.3	0		0	9.0	0		0	0	0	
STANDBY	0	0.9	0		0	0	3.3		0	3.3	0		0	0	3.3		0	0	0	

REF NO.	QR121				QR384				QR801				QR802				QR803			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	0.1	2.7		0	0	5.0		0	0	3.3		0	2.5	0		0	2.4	0	
STANDBY	0	0.1	2.7		0	0	0		0	0	3.3		0	2.0	0		0	2.4	0	

REF NO.	QR804				QR805															
MODE	E	C	B		E	C	B													
CD PLAY	3.3	0	3.3		0	2.8	0													
STANDBY	3.3	3.3	0.3		0	3.0	0													

SC-HC40PC VERTICAL MAIN P.C.B.

11.5. HORIZONTAL MAIN P.C.B.

REF NO.	IC505																			
MODE	1	2	3	4	5															
CD PLAY	3.3	9.8	0	5.6	3.4															
STANDBY	0	10.0	0	5.6	3.4															

REF NO.	IC705																			
MODE	1	2	3	4	5															
CD PLAY	3.3	10.9	0	0	0															
STANDBY	3.3	10.9	0	0	0															

REF NO.	Q509				Q512				Q551				Q552				Q553			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	5.8	7.6	6.1		7.6	7.6	0		9.2	9.0	0		0	9.2	0		0	0.1	0	
STANDBY	5.8	7.7	6.1		7.7	7.7	0		9.2	9.0	0		0	9.2	0		0	0	0	

REF NO.	Q554				Q555				Q1000				Q5601							
MODE	E	C	B		E	C	B		E	C	B		E	C	B					
CD PLAY	0	0.2	0.7		0	3.3	0		0	16.6	0		0	16.9	0					
STANDBY	0	0.2	0.7		0	3.3	0		0	16.6	0		0	16.9	0					

SC-HC40PC HORIZONTAL MAIN P.C.B.

11.6. PANEL P.C.B.

REF NO.	IC6801																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	0	0	2.3	3.3	0	0	1.5	0	0	0	3.3	-26.4	-26.4	-24.2	-19.0	-24.0	-15.3	-26.4
STANDBY	0	0	0	0	2.3	3.3	0	0	1.5	0	0	0	3.3	-26.4	-26.4	-24.1	-15.2	-21.9	-13.0	-26.4

REF NO.	IC6801																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	-26.4	-26.4	-19.7	-19.7	-26.4	-24.2	-26.4	-19.7	-17.9	-26.9	-18.0	-25.2	-24.9	-24.5	-24.4	-24.4	-24.4	-24.4	-24.4	-24.4
STANDBY	-26.4	-26.4	-13.1	-19.7	-26.4	-24.2	-26.4	-15.3	-19.7	-26.8	-15.4	-25.2	-24.8	-24.4	-24.4	-24.4	-24.4	-24.4	-24.4	-24.4

REF NO.	IC6801																			
MODE	41	42	43	44																
CD PLAY	-24.4	-24.4	3.3	0																
STANDBY	-24.4	-24.4	3.3	0																

SC-HC40PC PANEL P.C.B.

11.7. BUTTON P.C.B.

REF NO.	Q900																			
MODE	E	C	B																	
CD PLAY	0	0.9	3.2																	
STANDBY	0	0.9	3.2																	

SC-HC40PC BUTTON P.C.B.

11.8. TUNER P.C.B.

REF NO.	IC52																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	3.0	0	3.0	0	0	0	0	1.2	0	3.3	0	1.4	0.3	0.3	0.3	1.2	0	0	0
STANDBY	0	3.0	0	3.0	0	0	0	0	1.0	0	3.3	0	1.4	0.3	0.3	0.3	1.2	0	0	0

SC-HC40PC TUNER P.C.B.

11.9. IR P.C.B.

REF NO.	IC320																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	3.3	3.3	3.2	0	3.2	3.3	3.3	6.5												
STANDBY	3.3	3.3	3.2	0	3.2	3.3	3.3	6.5												

REF NO.	Q320																			
MODE	E	C	B																	
CD PLAY	0	0	0																	
STANDBY	0	0	3.3																	

SC-HC40PC IR P.C.B.

11.10. SMPS P.C.B.

REF NO.	IC2910																			
MODE	1	2	3	4	5															
CD PLAY	16.9	9.2	0	1.0	12.8															
STANDBY	16.9	9.2	0	1.0	12.8															

REF NO.	IC5701																			
MODE	1	2	3	4	5	6	7													
CD PLAY	164.8	0	0	19.1	0.1	1.4	0.5													
STANDBY	164.8	0	0	19.1	0.1	1.4	0.5													

REF NO.	IC5799																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	5.9	1.0	2.3	11.0	164.2	0	0	0												
STANDBY	5.9	1.0	2.3	11.0	164.2	0	0	0												

REF NO.	IC5801																			
MODE	1	2	3																	
CD PLAY	13.2	0	2.5																	
STANDBY	13.2	0	2.5																	

REF NO.	Q5899				QR5801				QR5802											
MODE	E	C	B		E	C	B		E	C	B									
CD PLAY	0	0	0.8		0	3.5	3.5		0	3.5	0									
STANDBY	0	0	0.8		0	0	3.5		0	0	3.3									

SC-HC40PC SMPS P.C.B.

11.11. USB P.C.B.

REF NO.	IC900																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	1.2	1.2	1.3	0	0	0	3.3	3.2	3.3	1.8	1.6	1.6	0	0	0	0	3.3	3.3	3.3	1.3
STANDBY	1.1	1.1	1.1	0	0	0	3.2	3.2	3.3	1.5	1.4	1.5	0	3.3	0	0	3.3	3.4	3.4	1.2

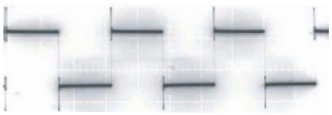
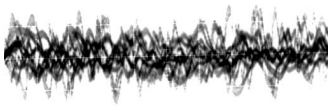
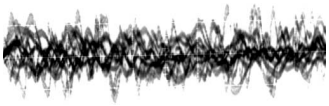
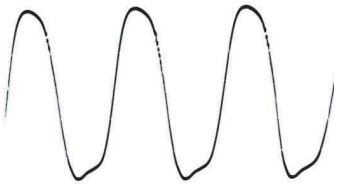
REF NO.	IC900																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0.9	1.3	1.3	1.2	1.2	1.2	1.3	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.1	3.3	1.0	0
STANDBY	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	3.4	1.3	0

REF NO.	IC900																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0.9	1.8	0.9	0	0.9	3.3	0.3	3.3	3.3	0	3.3	0.9	0	0	0.9	3.0	0	0	0	0.9
STANDBY	1.3	1.8	1.3	0	1.3	3.3	0.3	3.3	3.4	0	3.4	1.3	0	0	1.3	3.3	0	0	0	1.3

REF NO.	IC900																			
MODE	61	62	63	64																
CD PLAY	0	1.8	0.9	3.3																
STANDBY	0	1.8	1.3	3.3																

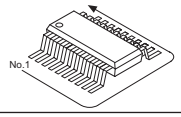
SC-HC40PC USB P.C.B.

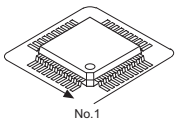
11.12. Waveform Chart

WF No. IC1-1,44 (PLAY)  0.24Vp-p(500nsec/div)	WF No. IC1-13,14,31,32 (PLAY)  38Vp-p(1usec/div)	WF No. IC52-9,17 (TUNER)  0.2Vp-p(100usec/div)	WF No. IC52-2,13,14 (TUNER)  0.1Vp-p(200usec/div)
WF No. IC101-3,37 (TUNER)  0.2Vp-p(200usec/div)	WF No. IC101-17,22 (PLAY)  2.2Vp-p(200usec/div)	WF No. IC101-40,52 (PLAY)  0.4Vp-p(200usec/div)	WF No. IC801-12 (PLAY)  4Vp-p(50nsec/div)
WF No. IC801-13 (PLAY)  2Vp-p(20nsec/div)	WF No. IC801-15 (PLAY)  1.2Vp-p(5usec/div)	WF No. IC801-16 (PLAY)  2.2Vp-p(5usec/div)	WF No. IC7001-49,52 (PLAY)  2.4Vp-p(100nsec/div)
WF No. IC7001-73 (PLAY)  4.8Vp-p(20nsec/div)	WF No. IC7001-74 (PLAY)  1.9Vp-p(20nsec/div)		

12 Illustration of IC’s, Transistors and Diodes

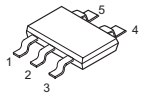
C1AB00003012 (44P)
C0ABBB000216 (8P)
C0ABBB000179 (8P)
C0ABBB000230 (8P)



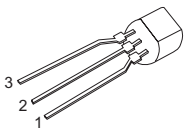


MFI341S2164 (20P)
C1AB00003256 (40P)
C0HBB0000061 (44P)
MN6627954AMA (100P)
MNZSFB5KJM2 (64P)
RFKWMHC40EG (100P)

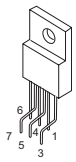
C0DBFYY00049



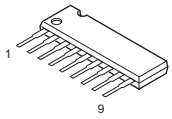
C0DAEMZ00001



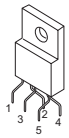
C0DAAMH00013



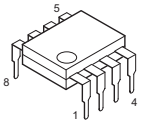
C0GAE0000007



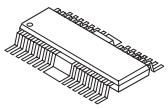
C0DAEJG00001
C0DAAYH00001



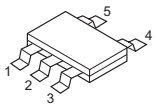
MIP2F20MSSCF
C3EBFY000006



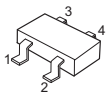
BA5948FPE2 (28P)
C3ABMB000050 (26P)



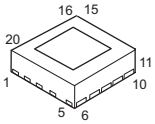
C0EBJ0000336
C0CBCBC00140



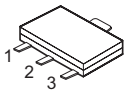
C0EBE0000434



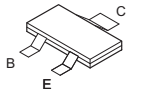
VUEALLPT031



C0CBADD00010

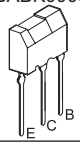


B1ABCF000176
B1ABEC000010
B1GBCFJN0033

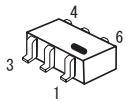


B1GBCFLL0037
B1ADCE000012
B1GBCFJJ0051
B1GDCFGG0026
B1ABDF000026
B1GBCFNN0038
B1ABCF000011
B1GDCFJJ0044

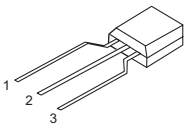
B1BAAJ000003
B1ACND000003
B1BABK000001



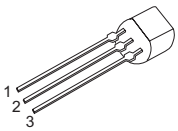
B1GFGCAA0001



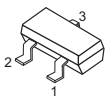
B1ADCF000001

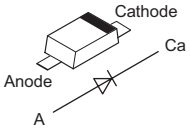


B1ACKD000006



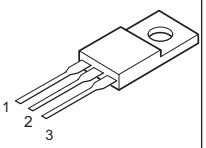
B1CFGC000004

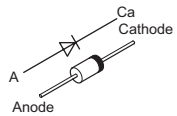




MA2SD320GL
MA2J1110GL
B0ACCK000012
B0ACCE000003
B0ACCK000005

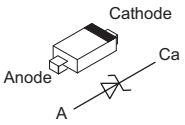
B0ABSM000008



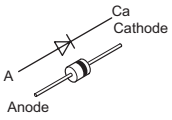


B0EAMM000057
B0JAME000029
B0EAKM000117
B0EAKU000001
B0HAJM000005

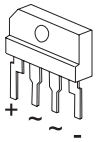
B0JCPD000025
B0JCME000035



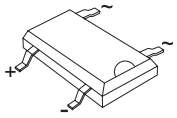
B0JAMF000011
B0HAMP000094



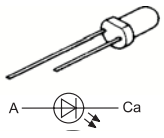
B0EBNR000045

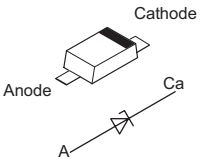


B0EDKT000009



B3AAA0000381

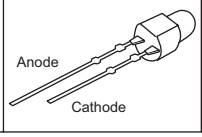




B0BC3R0A0262
B0BC6R2A0266
B0BC036A0264
B0BC027A0264
B0BC030A0264
B0BC3R3A0262
B0BC8R100004

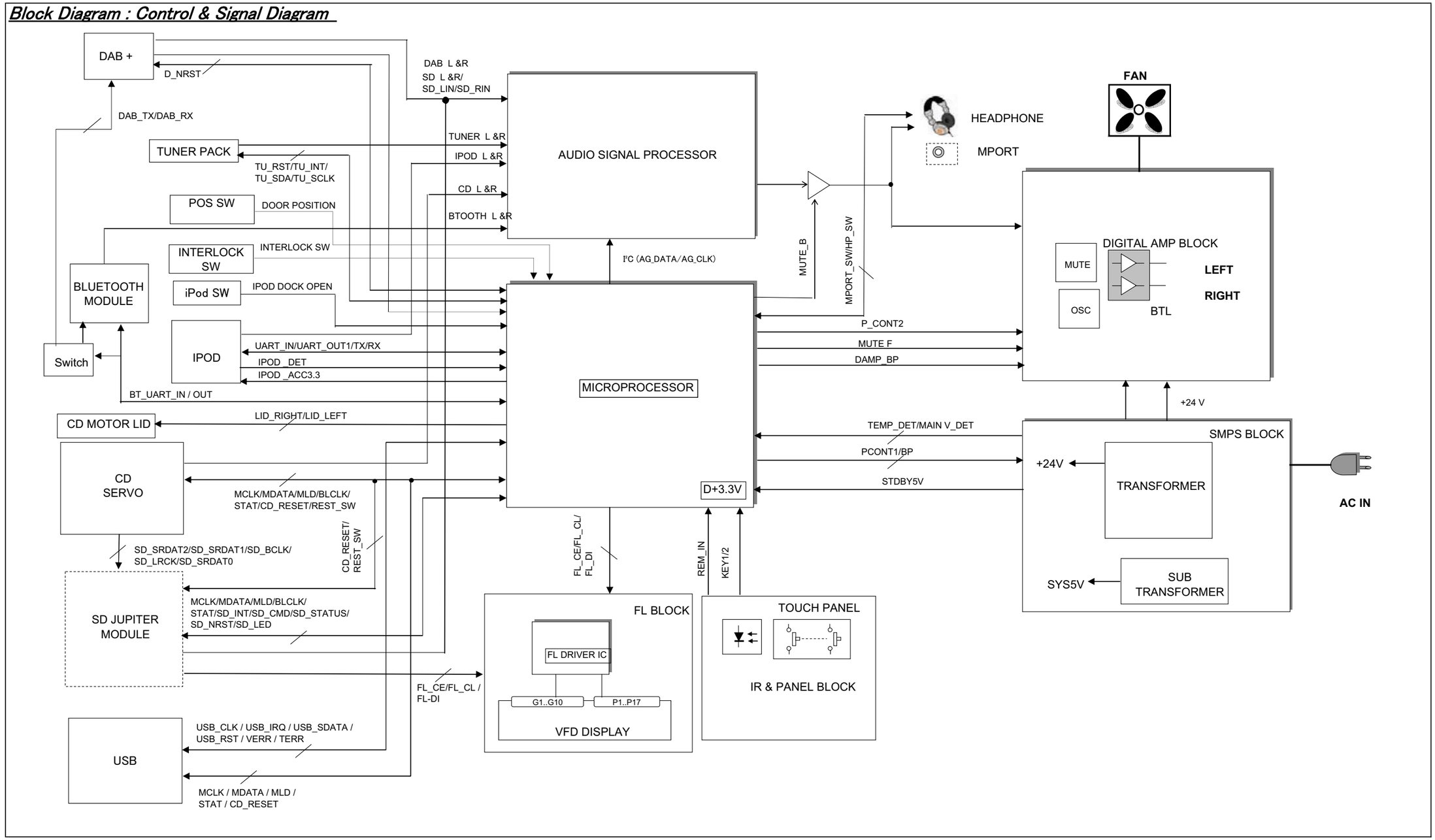
B0BC01200019
MAZ8033G0L
B0BC6R100010
MAZ8056GML

B3AEA0000129
B3AEA0000074

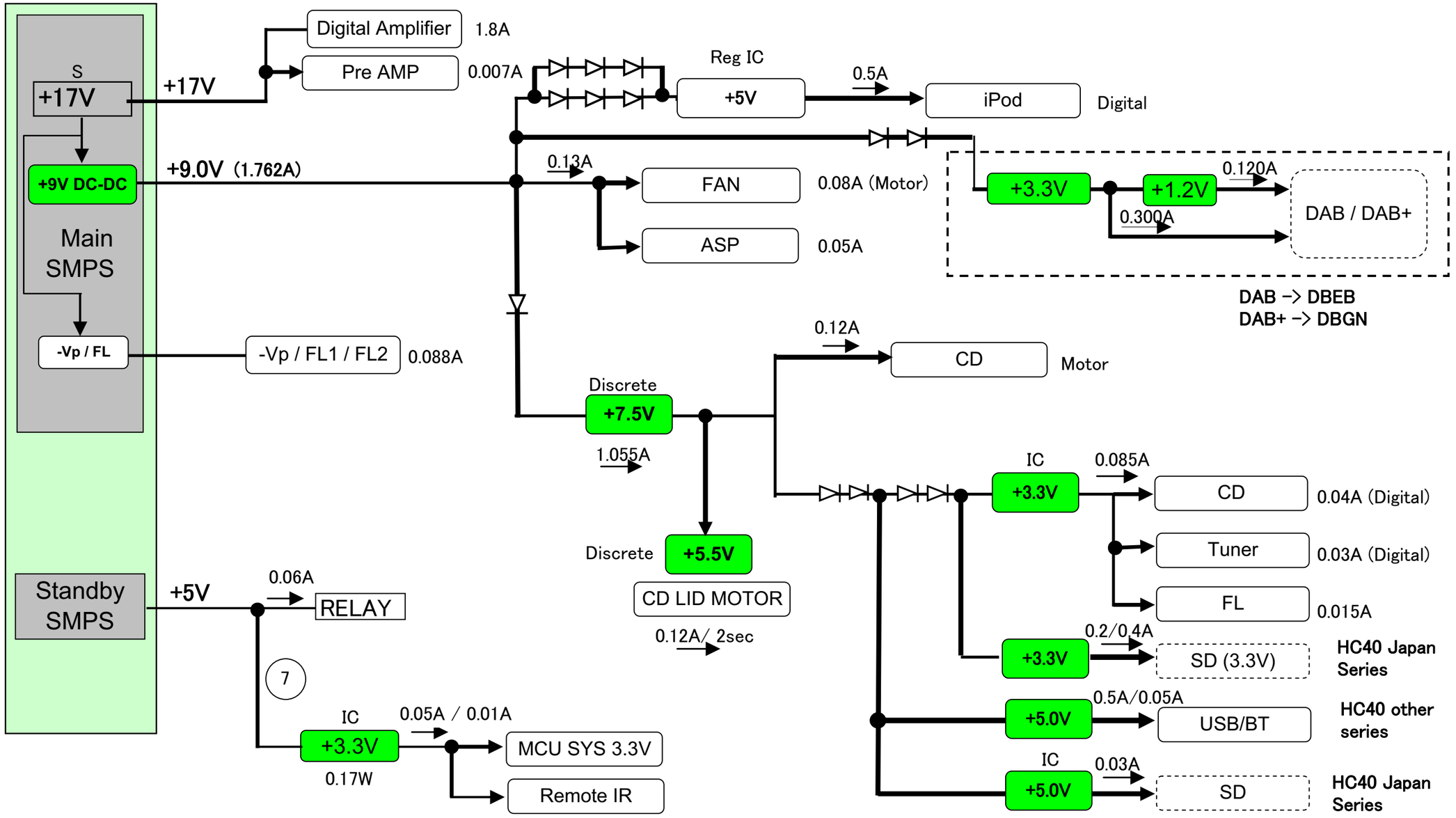


13 Overall Simplified Block

Block Diagram : Control & Signal Diagram



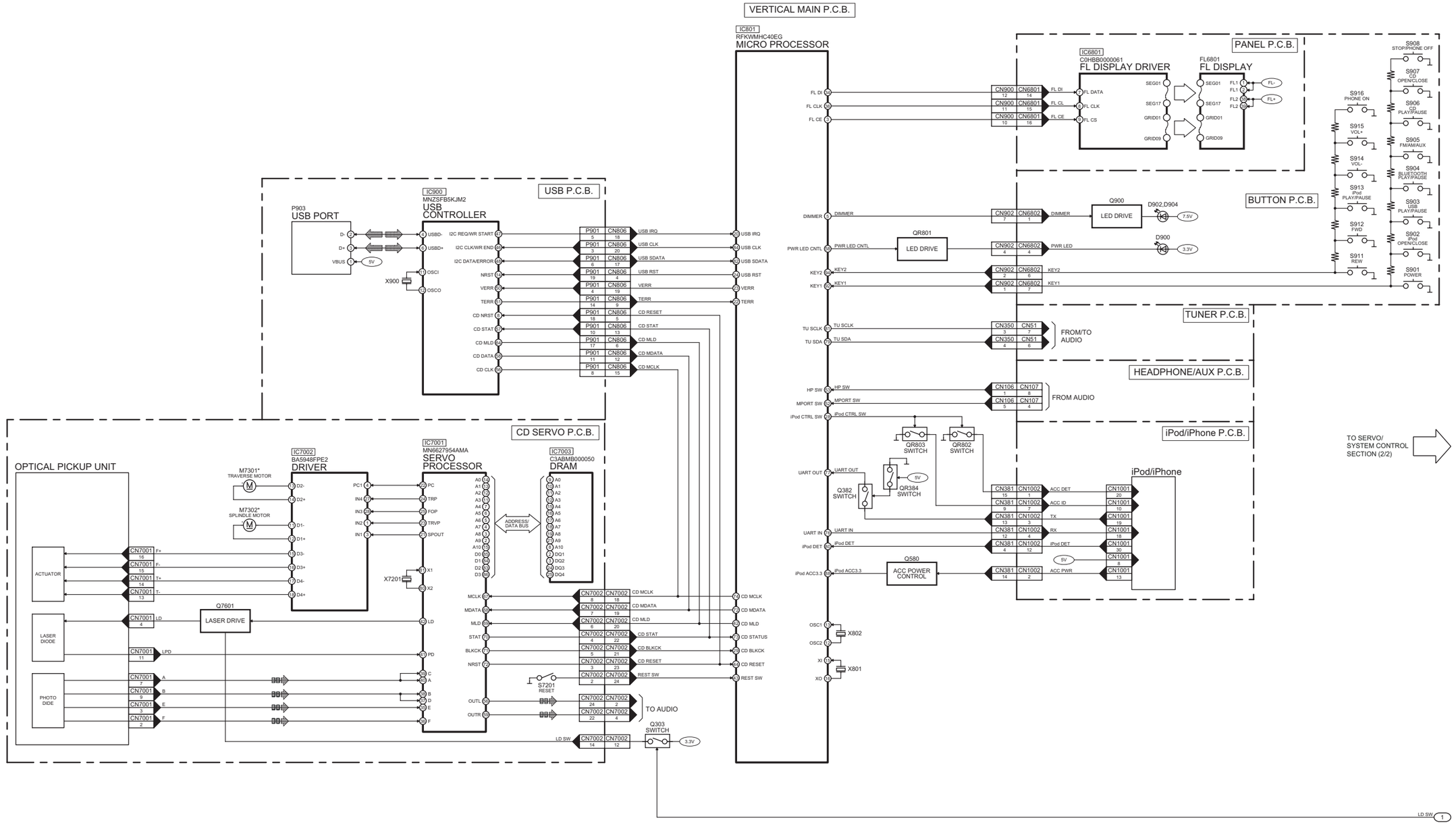
Block Diagram : Voltage / Current Diagram



14 Block Diagram

14.1. SERVO/SYSTEM CONTROL(1/2) BLOCK DIAGRAM

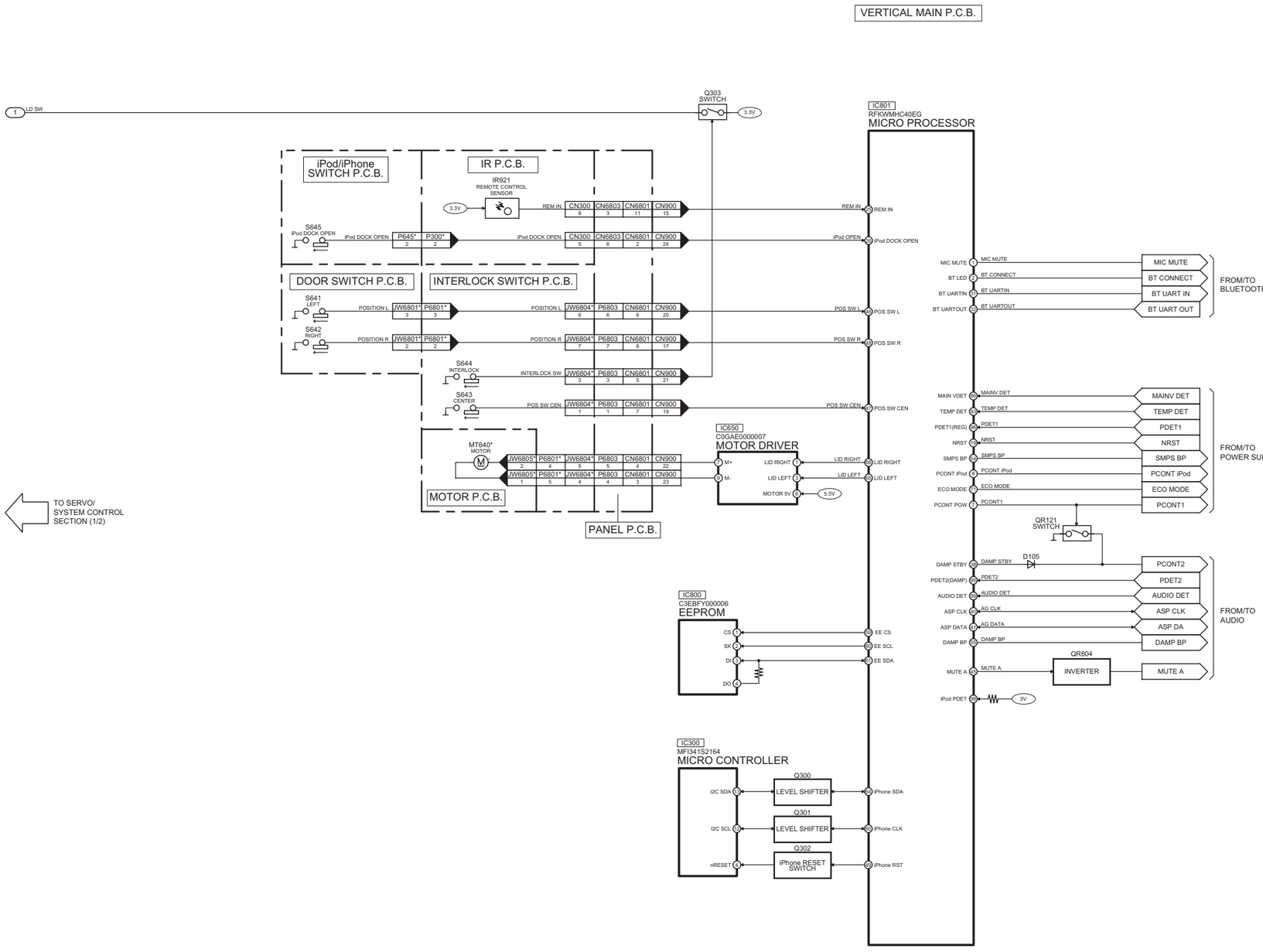
: CD AUDIO INPUT SIGNAL LINE : USB SIGNAL LINE



SC-HC40PC SERVO/SYSTEM CONTROL(1/2) BLOCK DIAGRAM

14.2. SERVO/SYSTEM CONTROL(2/2) BLOCK DIAGRAM

: CD AUDIO INPUT SIGNAL LINE



SC-HC40PC SERVO/SYSTEM CONTROL(2/2) BLOCK DIAGRAM

14.3. IC TERMINAL CHART (SERVO/SYSTEM CONTROL)

TC	IC751 / SDRAM		SIGNAL NAME	IC801 / RIPPING AUDIO LSI	
	PORT NAME	PIN NO		PIN NO	PORT NAME
1	A0	23	A0	5	SDRA0
	A1	24	A1	4	SDRA1
	A2	25	A2	3	SDRA2
	A3	26	A3	2	SDRA3
	A4	29	A4	7	SDRA4
	A5	30	A5	8	SDRA5
	A6	31	A6	9	SDRA6
	A7	32	A7	10	SDRA7
	A8	33	A8	15	SDRA8
	A9	34	A9	16	SDRA9
	A10	22	A10	11	SDRA10
	A11	35	A11	17	SDRA11
	A12	36	A12	18	SDRA12

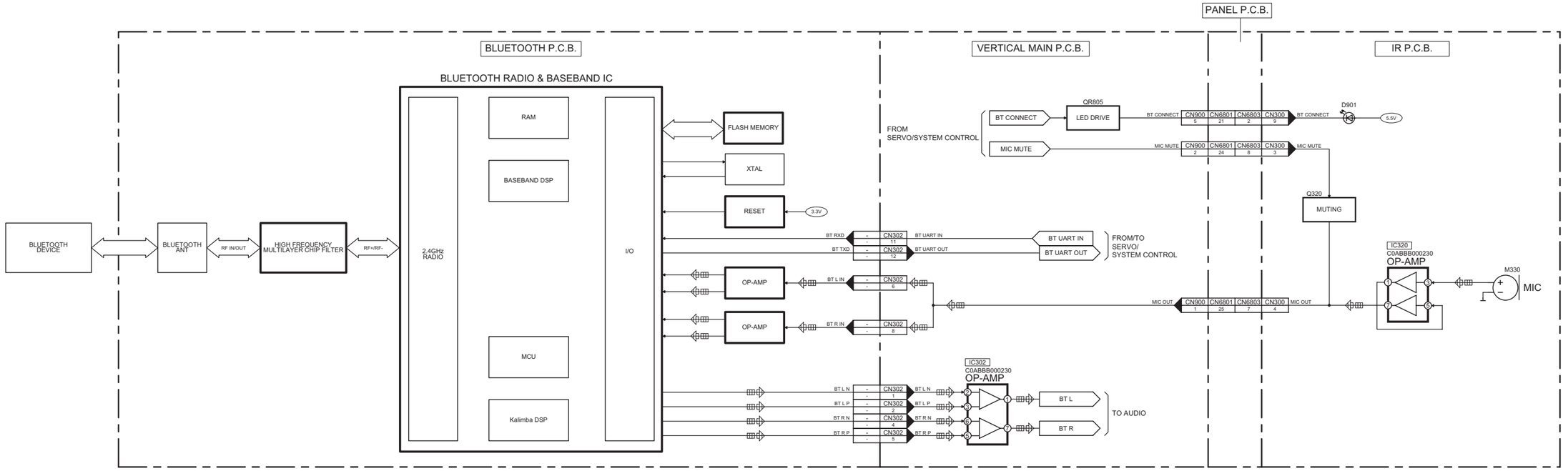
TC	IC751 / SDRAM		SIGNAL NAME	IC801 / RIPPING AUDIO LSI	
	PORT NAME	PIN NO		PIN NO	PORT NAME
2	DQ0	2	DQ0	48	SDRD0
	DQ1	4	DQ1	47	SDRD1
	DQ2	5	DQ2	46	SDRD2
	DQ3	7	DQ3	45	SDRD3
	DQ4	8	DQ4	37	SDRD4
	DQ5	10	DQ5	36	SDRD5
	DQ6	11	DQ6	35	SDRD6
	DQ7	13	DQ7	34	SDRD7
	DQ8	42	DQ8	39	SDRD8
	DQ9	44	DQ9	40	SDRD9
	DQ10	45	DQ10	41	SDRD10
	DQ11	47	DQ11	42	SDRD11
	DQ12	48	DQ12	50	SDRD12
	DQ13	50	DQ13	51	SDRD13
	DQ14	51	DQ14	52	SDRD14
	DQ15	53	DQ15	53	SDRD15

TC	IC701 / FLASH MEMORY		SIGNAL NAME	IC801 / RIPPING AUDIO LSI	
	PORT NAME	PIN NO		PIN NO	PORT NAME
3	DQ15	45	FA0	154	HIR0
	A0	25	FA1	155	HIR1
	A1	24	FA2	156	HIR2
	A2	23	FA3	158	HIB0
	A3	22	FA4	149	NHINT
	A4	21	FA5	165	DACK1
	A5	20	FA6	164	DRQ1
	A6	19	FA7	162	DACK2
	A7	18	FA8	161	DRQ2
	A8	8	FA9	159	GPIO5
	A9	7	FA10	160	GPIO4
	A10	6	FA11	168	RCVCLK
	A11	5	FA12	169	RCVSTART
	A12	4	FA13	170	RCVDATA
	A13	3	FA14	171	RCVWAIT
	A14	2	FA15	138	HID8
	A15	1	FA16	139	HID9
	A16	48	FA17	142	HID10
	A17	17	FA18	143	HID11
	A18	16	FA19	144	HID12
	A19	9	FA20	145	HID13
	A20	10	FA21	147	HID14
	A21	13	FA22	148	HID15

TC	IC701 / FLASH MEMORY		SIGNAL NAME	IC801 / RIPPING AUDIO LSI	
	PORT NAME	PIN NO		PIN NO	PORT NAME
4	DQ0	29	FD0	128	HID0
	DQ1	31	FD1	129	HID1
	DQ2	33	FD2	130	HID2
	DQ3	35	FD3	132	HID3
	DQ4	38	FD4	133	HID4
	DQ5	40	FD5	135	HID5
	DQ6	42	FD6	136	HID6
	DQ7	44	FD7	137	HID7

14.4. BLUETOOTH BLOCK DIAGRAM

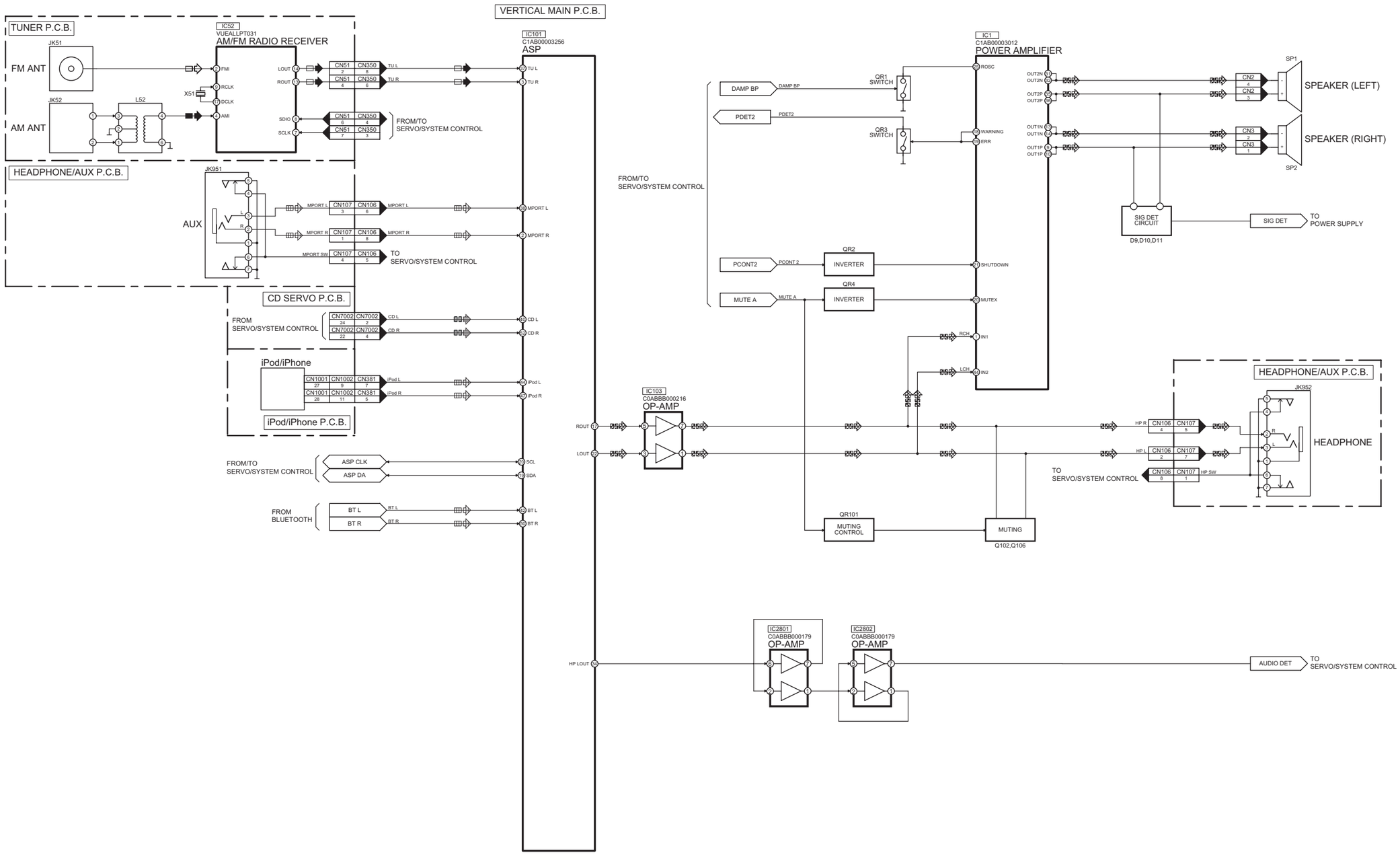
: MIC/BLUETOOTH AUDIO INPUT SIGNAL LINE



SC-HC40PC BLUETOOTH BLOCK DIAGRAM

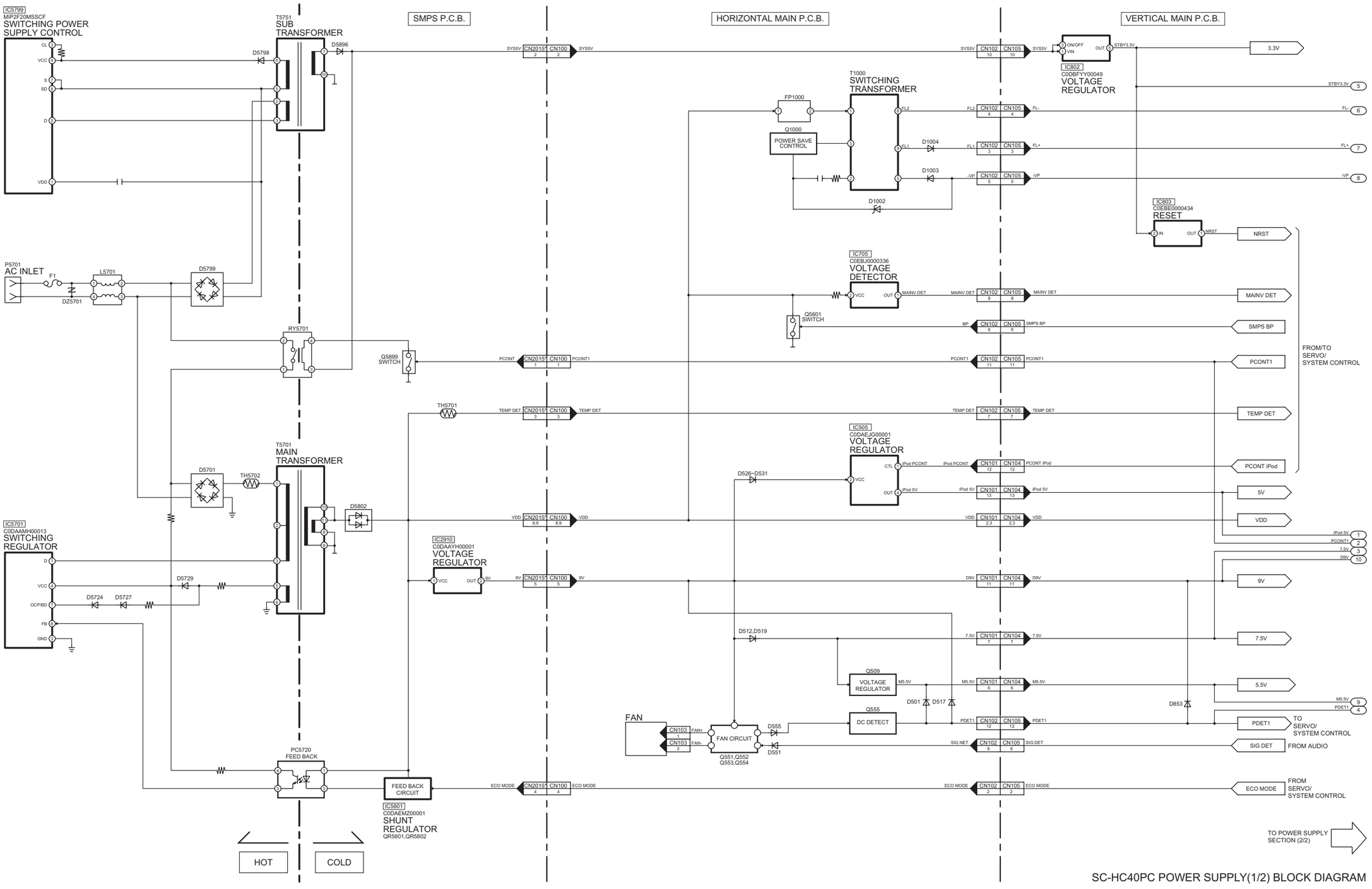
14.5. AUDIO BLOCK DIAGRAM

: CD AUDIO INPUT SIGNAL LINE : AUX/iPod/iPhone/BLUETOOTH AUDIO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : AM SIGNAL LINE : FM SIGNAL LINE : AM/FM SIGNAL LINE



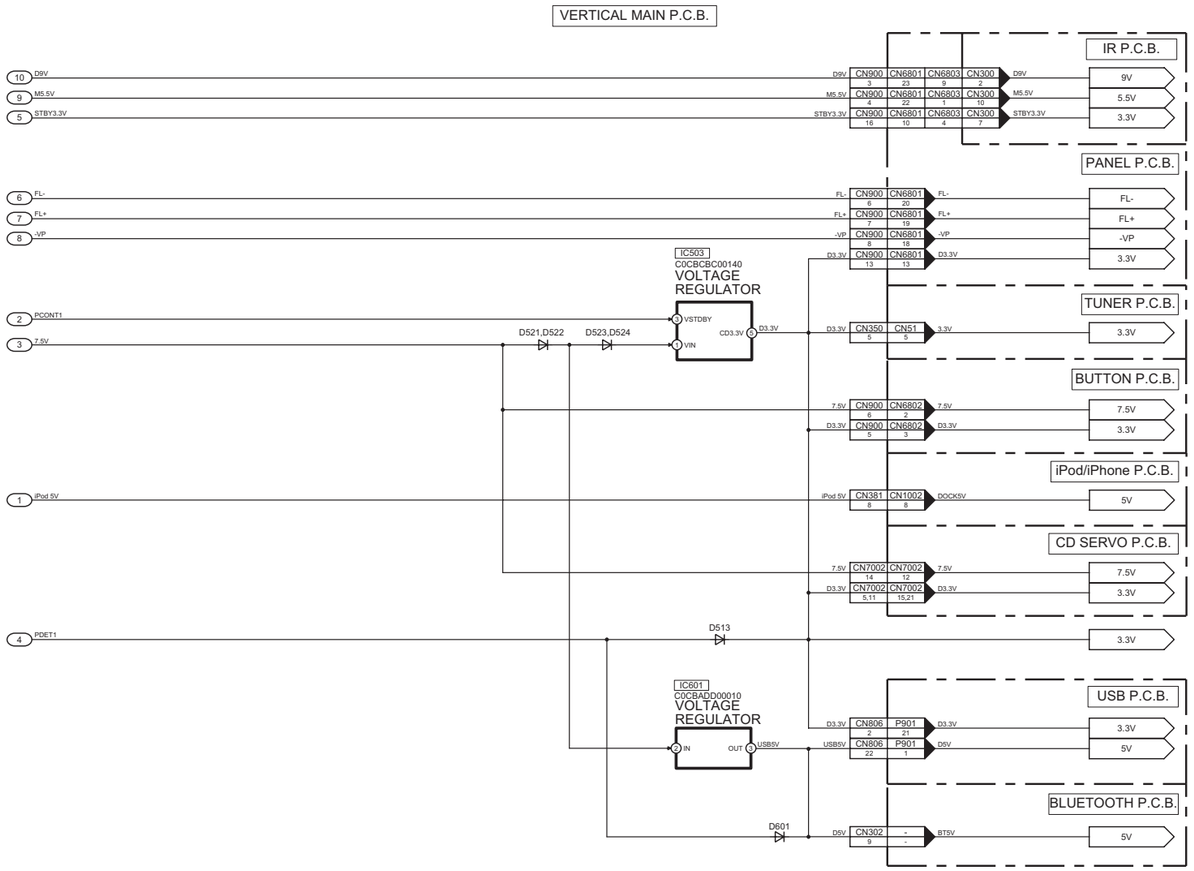
SC-HC40PC AUDIO BLOCK DIAGRAM

14.6. POWER SUPPLY(1/2) BLOCK DIAGRAM



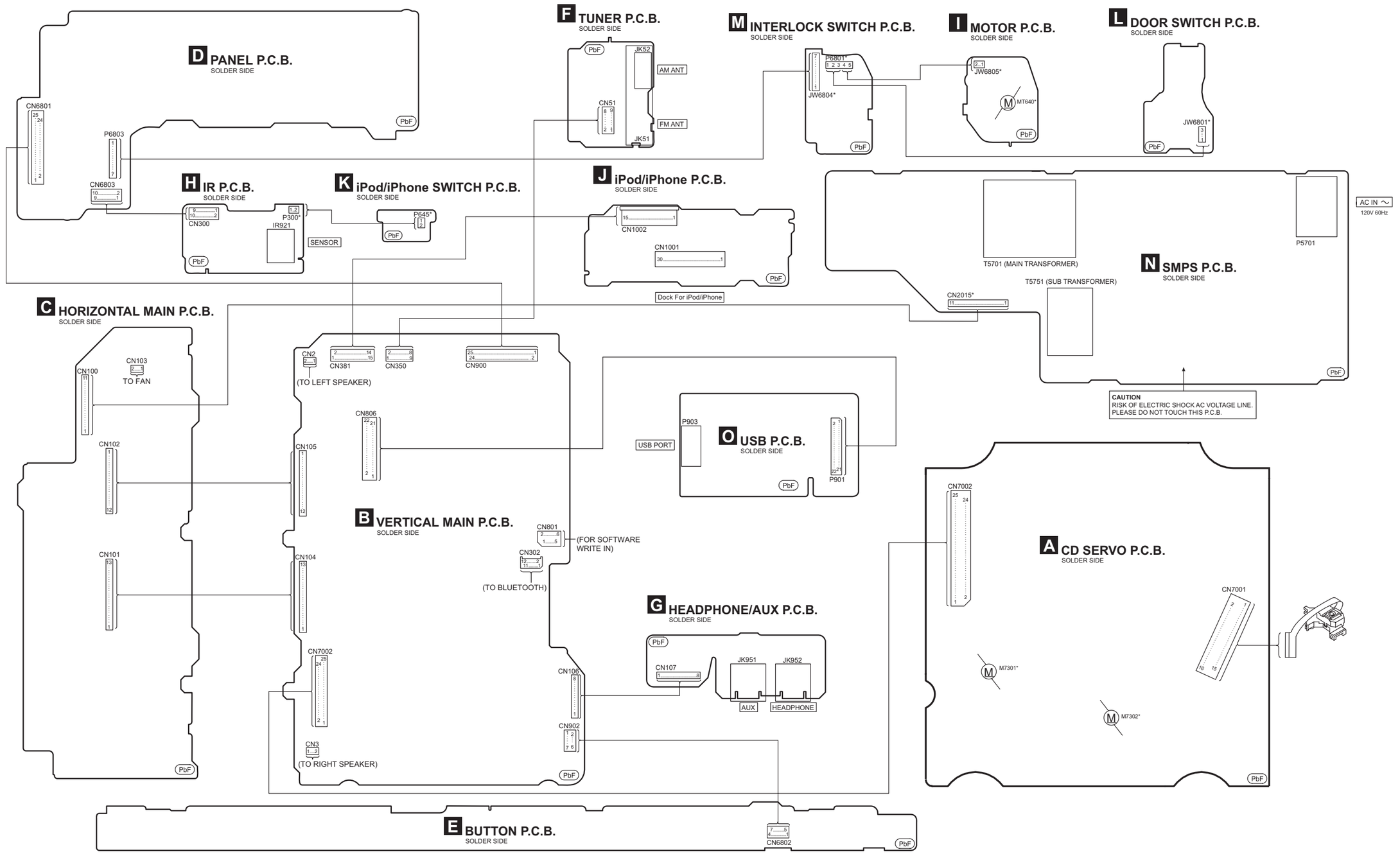
SC-HC40PC POWER SUPPLY(1/2) BLOCK DIAGRAM

14.7. POWER SUPPLY(2/2) BLOCK DIAGRAM



SC-HC40PC POWER SUPPLY(2/2) BLOCK DIAGRAM

15 Wiring Connection Diagram



NOTE “*” REF IS FOR INDICATION ONLY

16 Schematic Diagram Notes

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

Notes:

S641:	LEFT switch.
S642:	RIGHT switch.
S643:	CENTER switch.
S644:	INTERLOCK switch.
S645:	iPod DOCK OPEN switch.
S901:	POWER switch (⏻/I).
S902:	iPod OPEN/CLOSE switch.
S903:	USB PLAY/PAUSE switch.
S904:	BLUETOOTH PLAY/PAUSE switch.
S905:	FM/AM/AUX switch.
S906:	CD PLAY/PAUSE switch (CD▶/❚❚).
S907:	CD OPEN/CLOSE switch (CD ⏏).
S908:	STOP/PHONE OFF switch (■).
S911:	REW switch (⏮/◀◀).
S912:	FWD switch (▶▶/⏭).
S913:	iPod PLAY/PAUSE switch (iPod▶/❚❚).
S914:	VOL- switch.
S915:	VOL+ switch.
S916:	PHONE ON switch.
S7201:	REST 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.

- **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

  : AM/FM Signal Line

  : Audio Output Signal Line

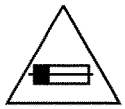
  : AM Signal Line

  : FM Signal Line

  : iPod/iPhone/Aux/Mic Audio Input Signal Line

  : USB Signal Line

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE F1 3A, 125V 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 harzard, replace with the same type fuse. For fuse rating, refer to the marking adjacent to the symbol.

17 Schematic Diagram

17.1. CD SERVO CIRCUIT

SCHEMATIC DIAGRAM - 1

A CD SERVO CIRCUIT

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

CN7001
VCC 1
F 2
E 3
LD 4
LDGND 5
GND 6
A 7
GND(GUARD) 8
B 9
VREF 10
LPD 11
GND(GUARD) 12
T- 13
T+ 14
F- 15
F+ 16

TO OPTICAL PICKUP UNIT

Q7601
B1ADCF000001
LASER DRIVE

IC7001
MN6627954AMA
SERVO PROCESSOR

IC7002
BA5948FPE2
4CH DRIVER

IC7003
C3ABMB000050
16MB DRAM

M7301*
TRAVERSE MOTOR

M7302*
SPINDLE MOTOR

CN7002
25 NC
24 LCHOUT
23 AGND
22 RCHOUT
21 3.3V
20 SRDATA2
19 SRDATA1
18 BCL(ST CLK)
17 LRCK(ST REQ)
16 SRDATA(ST IN)
15 3.3V
14 LDSW
13 DGND
12 7.5V
11 PGND
10 IPFLAG
9 TX
8 MCLK
7 MDATA
6 MLD
5 BLKCK
4 STAT
3 RST
2 REST SW
1 LOADING

TO **B** VERTICAL MAIN CIRCUIT (CN7002) IN SCHEMATIC DIAGRAM - 4

S7201
REST SW

SC-HC40PC CD SERVO CIRCUIT

17.2. VERTICAL MAIN CIRCUIT (1/4)

SCHEMATIC DIAGRAM - 2

B VERTICAL MAIN CIRCUIT

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

TO F TUNER CIRCUIT (CN51) IN SCHEMATIC DIAGRAM - 8

CN350: TU_G 9, Tuner_Lch 8, TU_G 7, Tuner_Rch 6, D3.3V 5, SDIO 4, SCLK 3, RST 2, INT 1

TO BLUETOOTH P.C.B.

CN302: BT_L_N 1, BT_L_P 2, BT_GND 3, BT_R_N 4, BT_R_P 5, BT_LIN 6, D5VGND 7, BT_RIN 8, D5V 9, BT_GND 10, BT_UART_IN 11, BT_UART_OUT 12

TO J iPod/iPhone CIRCUIT (CN1002) IN SCHEMATIC DIAGRAM - 9

CN381: ACC_DET 15, ACC_PWR 14, DO_UART_OUT/TX 13, DO_UART_IN/RX 12, DOCK5V_GND 11, DOCK5V_GND 10, IPOD ACC 9, DOCK5V 8, DOCK_L OUT 7, DPORT_AGND 6, DOCK_R OUT 5, IPOD DET 4, VGND 3, VIDEO 2, VGND 1

QR802 B1GBCFJJ0051 SWITCH

QR803 B1GBCFJJ0051 SWITCH

QR101 B1GDCFGG0026 MUTING CONTROL

IC101 C1AB00003256 ASP IC

IC302 C0ABBB000230 OP-AMP

Q580 B1ABDF000026 ACC POWER CONTROL

TO VERTICAL MAIN SECTION (2/4)

TO VERTICAL MAIN SECTION (3/4)

1/4	2/4
3/4	4/4

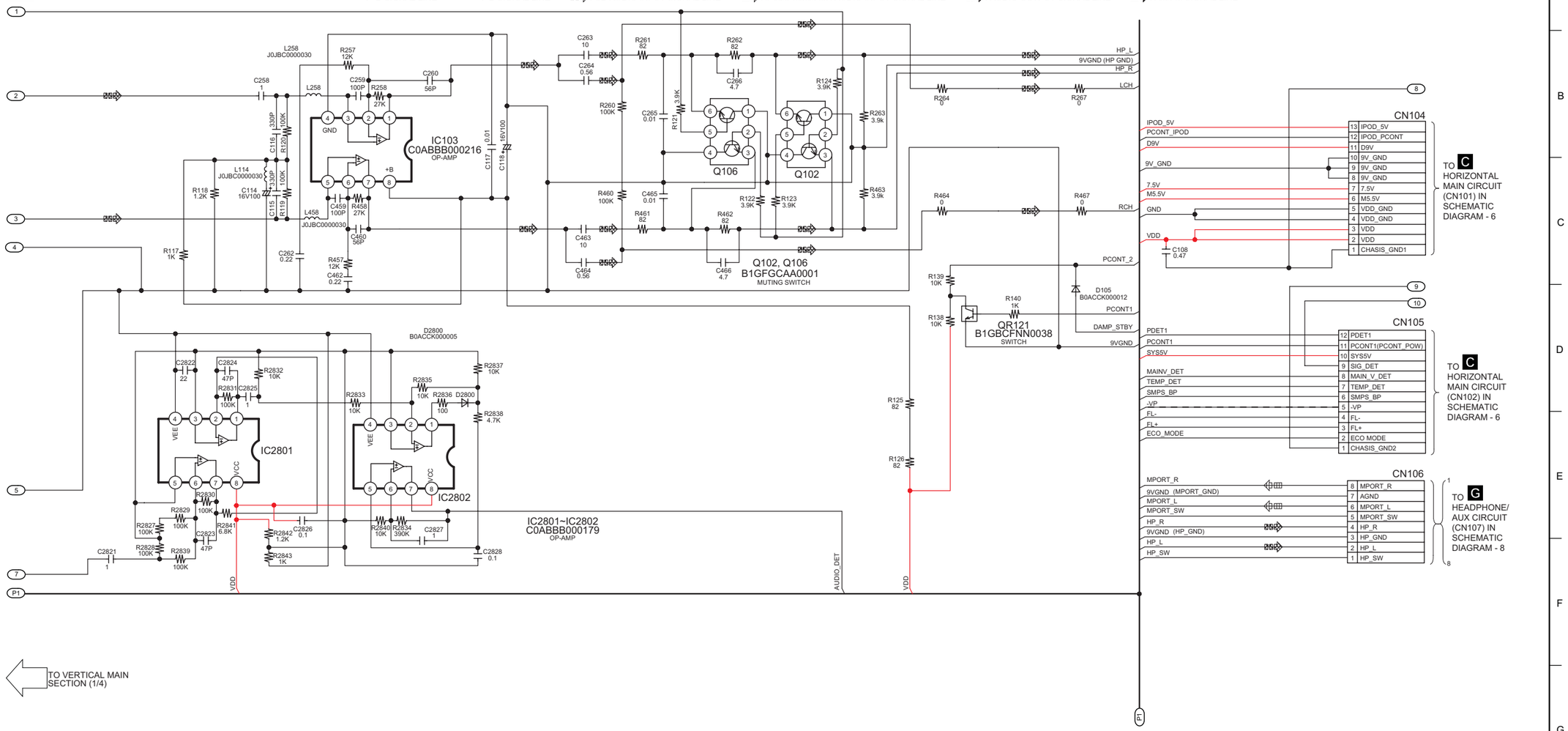
SC-HC40PC VERTICAL MAIN CIRCUIT

17.3. VERTICAL MAIN CIRCUIT (2/4)

SCHEMATIC DIAGRAM - 3

B VERTICAL MAIN CIRCUIT

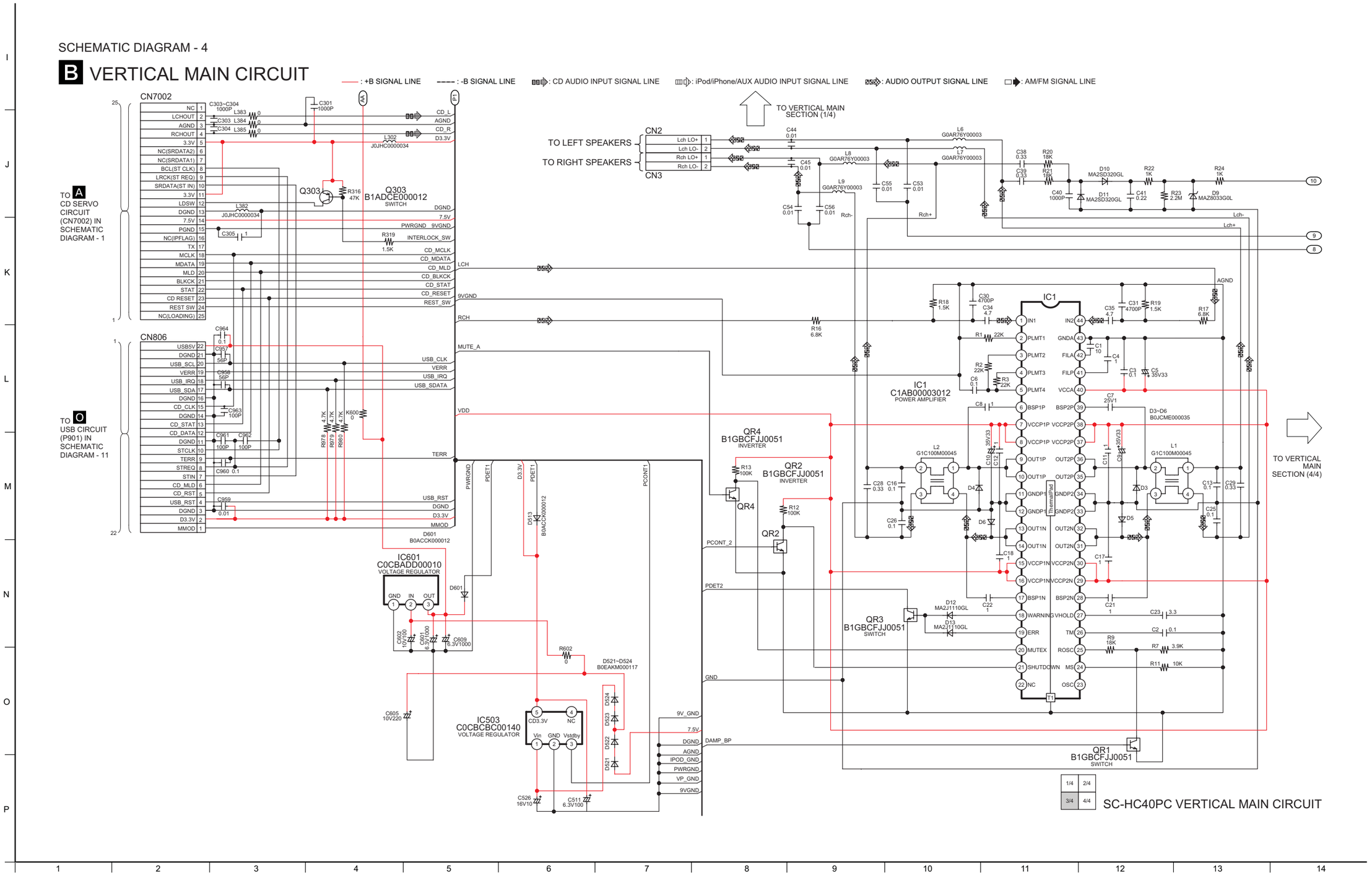
: +B SIGNAL LINE : -B SIGNAL LINE : CD AUDIO INPUT SIGNAL LINE : iPod/iPhone/AUX AUDIO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : AM/FM SIGNAL LINE



1/4	2/4
3/4	4/4

SC-HC40PC VERTICAL MAIN CIRCUIT

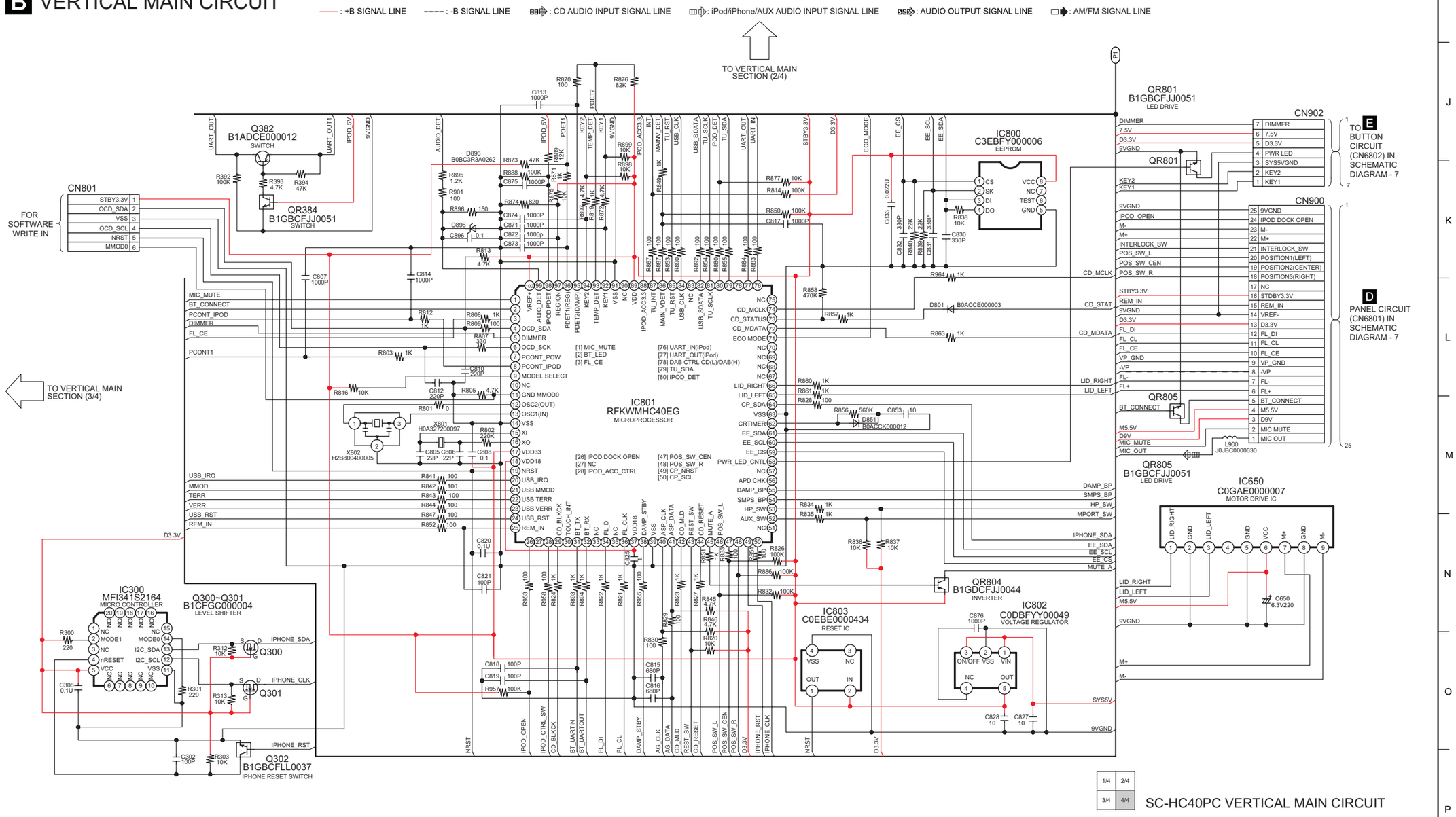
17.4. VERTICAL MAIN CIRCUIT (3/4)



17.5. VERTICAL MAIN CIRCUIT (4/4)

SCHEMATIC DIAGRAM - 5

B VERTICAL MAIN CIRCUIT

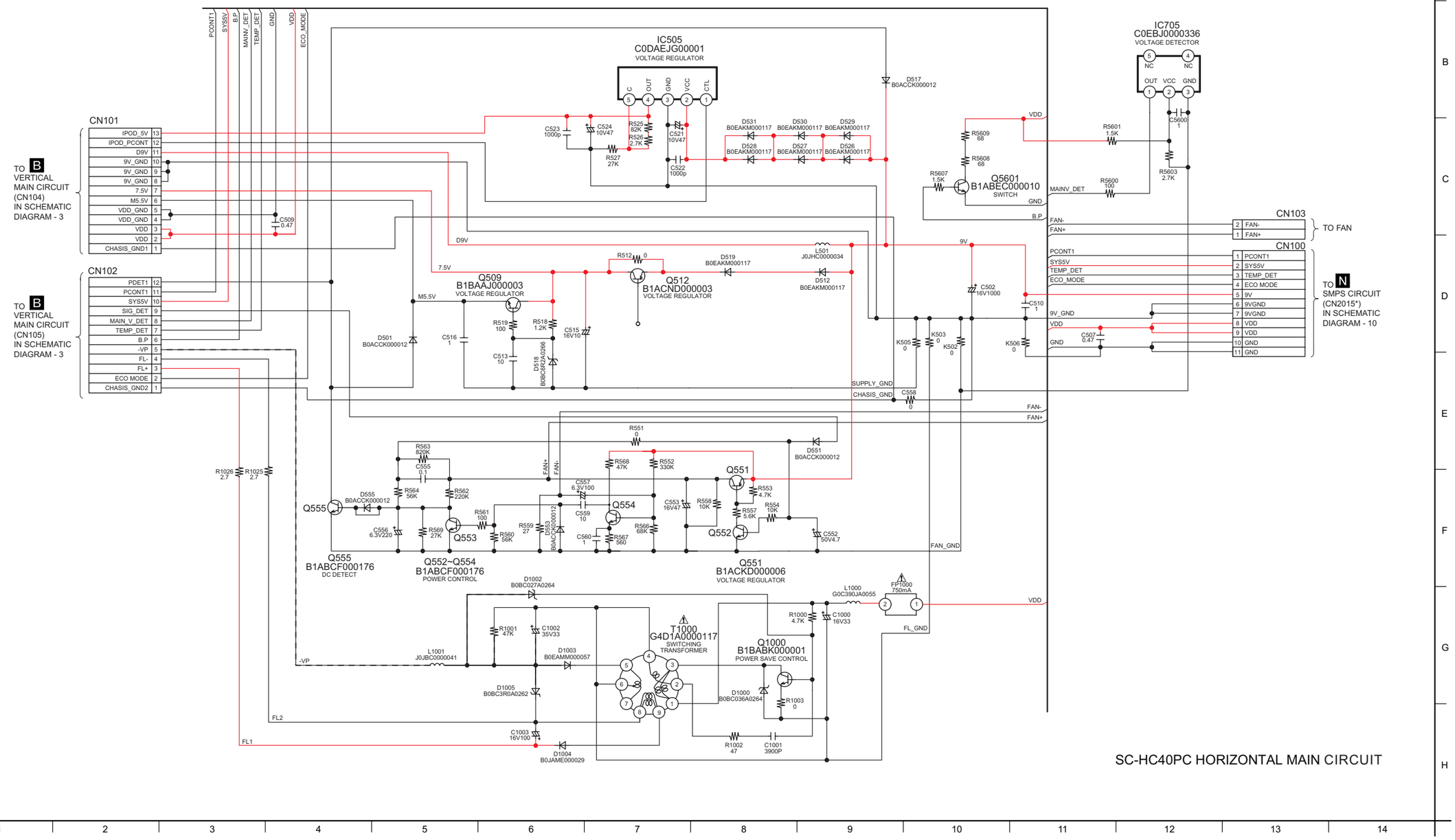


17.6. HORIZONTAL MAIN CIRCUIT

SCHEMATIC DIAGRAM - 6

C HORIZONTAL MAIN CIRCUIT

—— : +B SIGNAL LINE – – – : -B SIGNAL LINE



SC-HC40PC HORIZONTAL MAIN CIRCUIT

17.7. PANEL & BUTTON CIRCUIT

SCHEMATIC DIAGRAM - 7

D PANEL CIRCUIT

—— : +B SIGNAL LINE –·–·– : -B SIGNAL LINE ⇨ : MIC AUDIO INPUT SIGNAL LINE

FL6801
A2BB00000172
FL DISPLAY

IC6801
C0HBB0000061
FL DISPLAY DRIVER

CN6801

25	MIC OUT
24	MIC MUTE
23	D9V
22	M5.5V
21	BT_CONNECT
20	FL+
19	FL-
18	-VP
17	VP_GND
16	FL_CE
15	FL_CL
14	FL_DI
13	D3.3V
12	VREF-
11	REM_IN
10	STDBY3.3V
9	NC
8	POSITION (R)
7	POSITION (C)
6	POSITION (L)
5	INTERLOCK_SW
4	M+
3	M-
2	IPOD_OPEN
1	9VGND

TO B VERTICAL MAIN CIRCUIT (CN900) IN SCHEMATIC DIAGRAM - 5

CN6803

1	M5.5V
2	BT_CONNECT
3	REM_IN
4	STDBY3.3V
5	VREF-
6	IPOD DOCK OPEN
7	MIC OUT
8	MIC MUTE
9	D9V
10	9VGND

TO H IR CIRCUIT (CN300) IN SCHEMATIC DIAGRAM - 8

P6803

1	POSITION(C)
2	VREF-
3	INTERLOCK_SW
4	MOTOR-
5	MOTOR+
6	POSITION(L)
7	POSITION(R)

TO M INTERLOCK SWITCH CIRCUIT (JW6804*) IN SCHEMATIC DIAGRAM - 9

E BUTTON CIRCUIT

—— : +B SIGNAL LINE

CN6802

KEY1	7
KEY2	6
VREFGND	5
PWR_LED	4
D3.3V	3
7.5V	2
DIMMER	1

TO B VERTICAL MAIN CIRCUIT (CN902) IN SCHEMATIC DIAGRAM - 5

S901 POWER
S902 IPOD OPEN/CLOSE
S903 USB PLAY/PAUSE
S904 BLUETOOTH PLAY/PAUSE
S905 FM/AM/AUX
S906 CD PLAY/PAUSE
S907 CD OPEN/CLOSE
S908 PHONE STOP/PHONE OFF
S911 REW
S912 FWD
S913 IPOD PLAY/PAUSE
S914 VOL-
S915 VOL+
S916 PHONE ON

Q900
B1GBCFJN0033
LED DRIVE

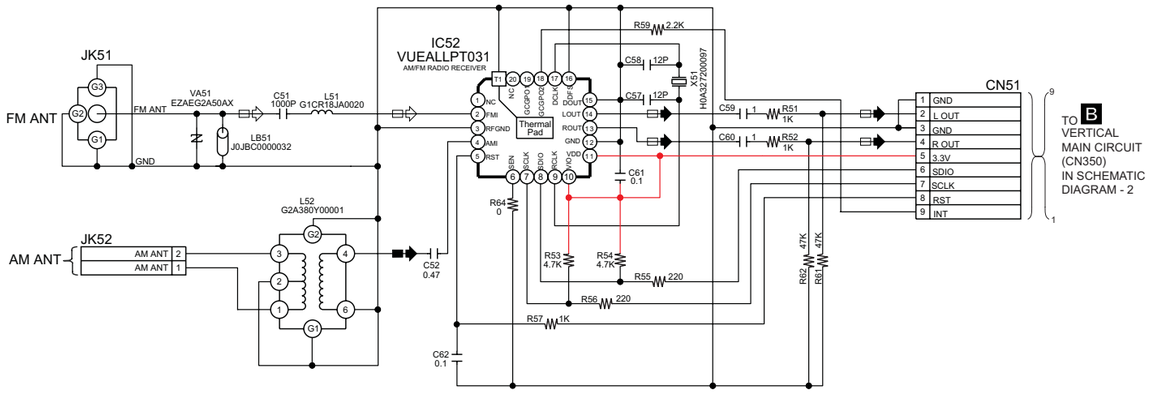
SC-HC40PC PANEL / BUTTON CIRCUIT

17.8. TUNER, HEADPHONE/AUX, IR & MOTOR CIRCUIT

SCHEMAIC DIAGRAM - 8

F TUNER CIRCUIT

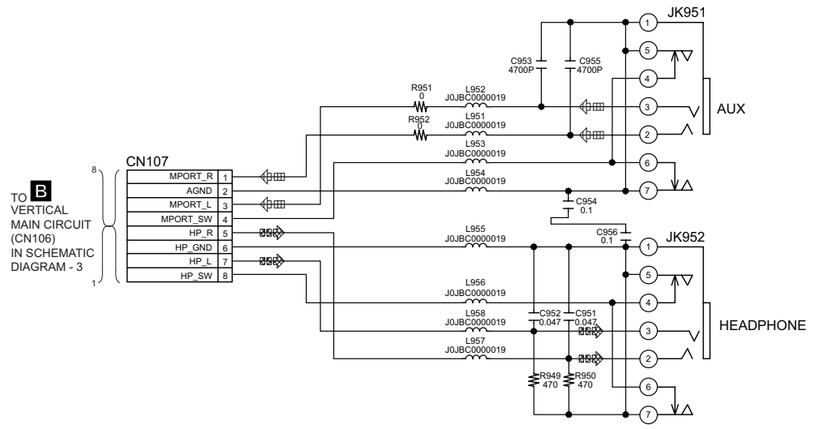
: +B SIGNAL LINE : AM SIGNAL LINE : FM SIGNAL LINE : AM/FM SIGNAL LINE



G HEADPHONE/AUX CIRCUIT

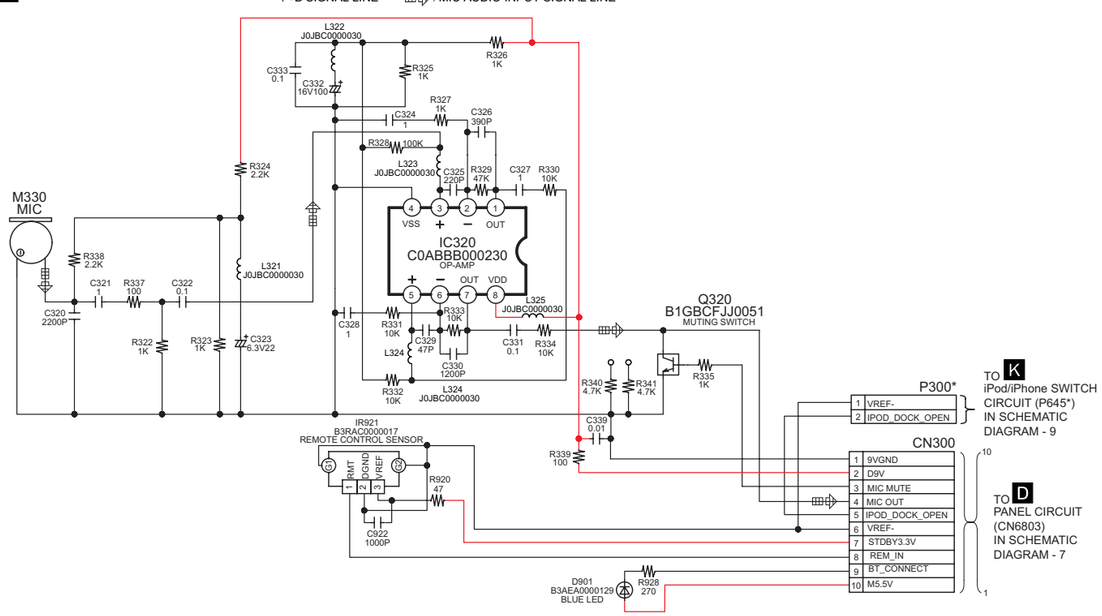
: AUX AUDIO INPUT SIGNAL LINE

: AUDIO OUTPUT SIGNAL LINE

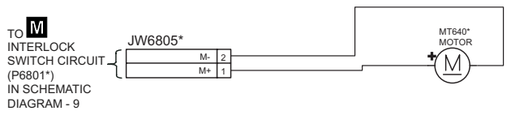


H IR CIRCUIT

: +B SIGNAL LINE : MIC AUDIO INPUT SIGNAL LINE



I MOTOR CIRCUIT



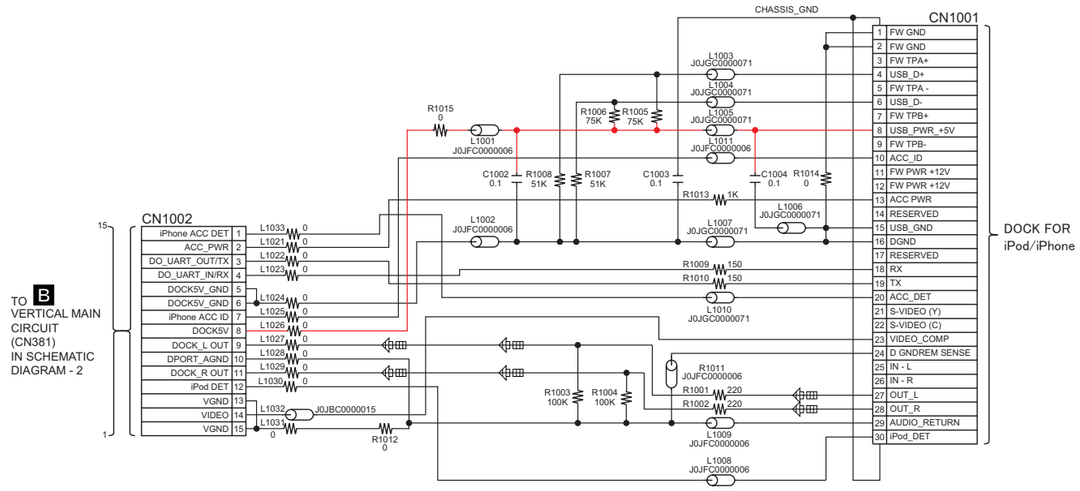
SC-HC40PC TUNER / HEADPHONE/AUX / IR / MOTOR CIRCUIT

17.9. iPod/iPhone, iPod/iPhone SWITCH, DOOR SWITCH & INTERLOCK SWITCH CIRCUIT

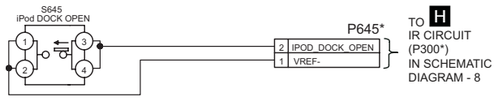
SCHEMATIC DIAGRAM - 9

J iPod/iPhone CIRCUIT

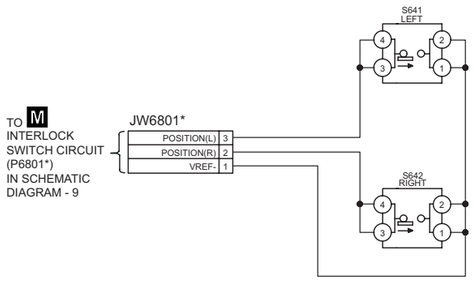
—— : +B SIGNAL LINE : iPod/iPhone AUDIO INPUT SIGNAL LINE



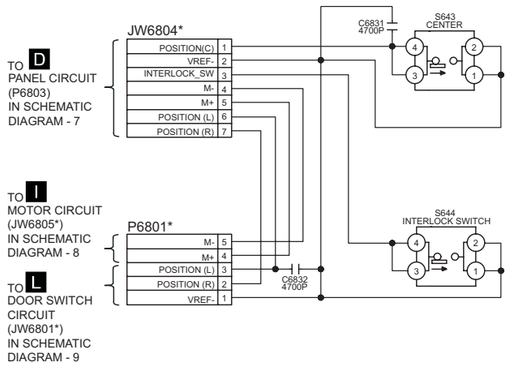
K iPod/iPhone SWITCH CIRCUIT



L DOOR SWITCH CIRCUIT



M INTERLOCK SWITCH CIRCUIT



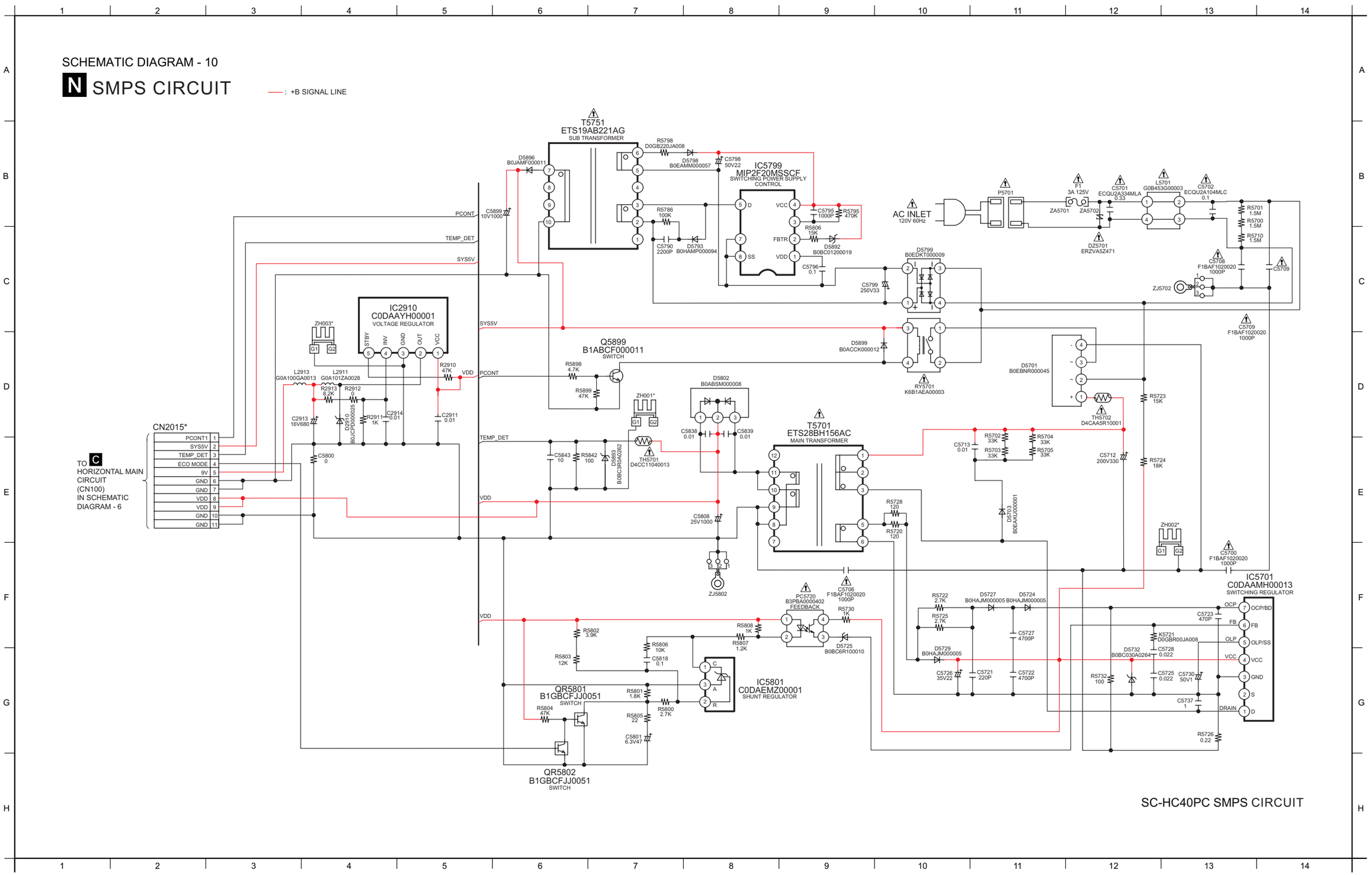
SC-HC40PC iPod/iPhone / iPod/iPhone SWITCH / DOOR SWITCH / INTERLOCK SWITCH CIRCUIT

17.10. SMPS CIRCUIT

SCHEMATIC DIAGRAM - 10

N SMPS CIRCUIT

—— : +B SIGNAL LINE



17.11. USB CIRCUIT

SCHEMATIC DIAGRAM - 11

O USB CIRCUIT

—— : +B SIGNAL LINE ⇒ : USB SIGNAL LINE

IC900
MNZSFB5KJM2
USB CONTROLLER

P903
USB PORT

P901

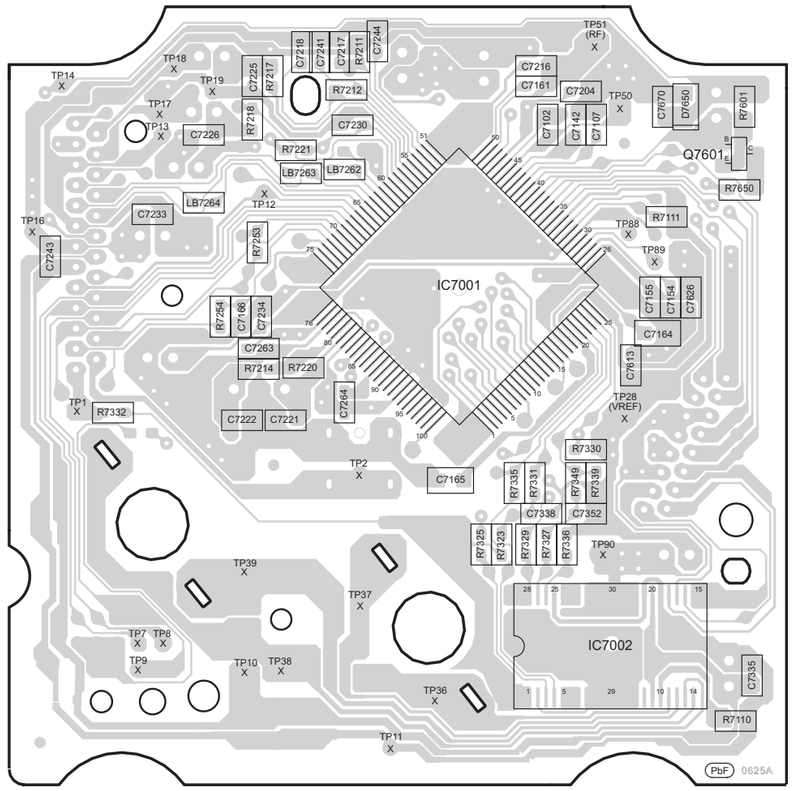
TO B
MAIN CIRCUIT
(CN806)
IN SCHEMATIC
DIAGRAM - 4

SC-HC40PC USB CIRCUIT

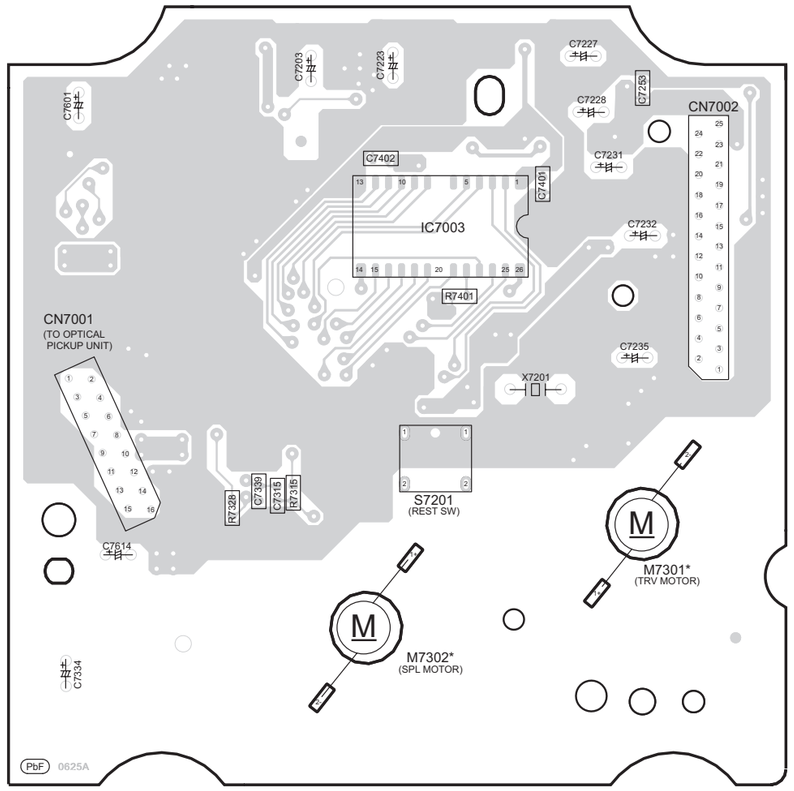
18 Printed Circuit Board

18.1. CD SERVO P.C.B.

A CD SERVO P.C.B. (REPX0723A)



(SIDE A)



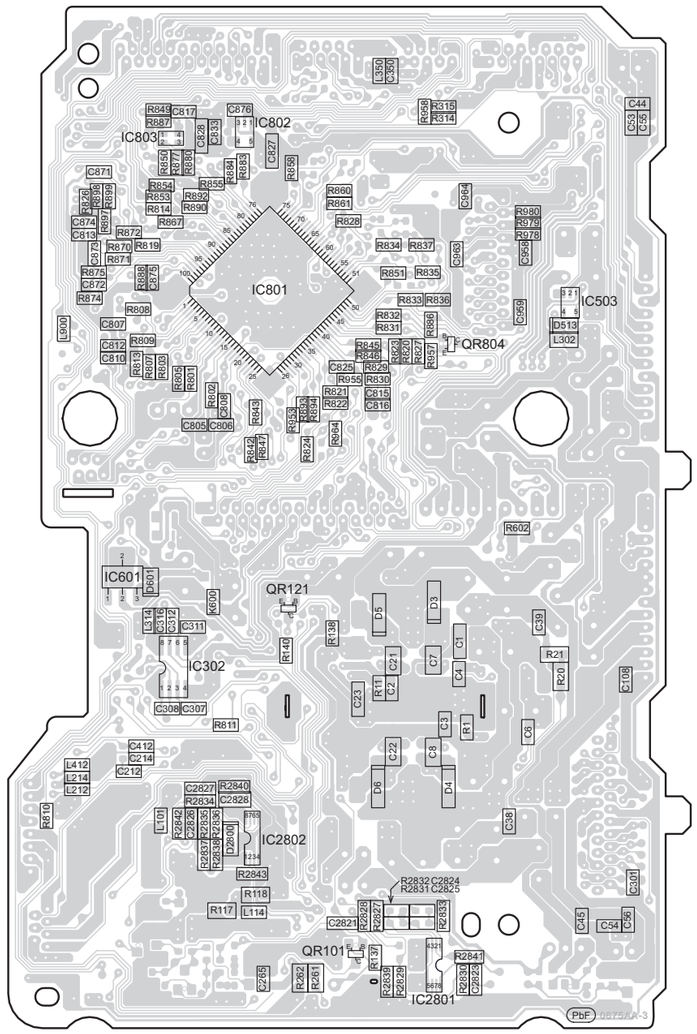
(SIDE B)

NOTE “*” REF IS FOR INDICATION ONLY

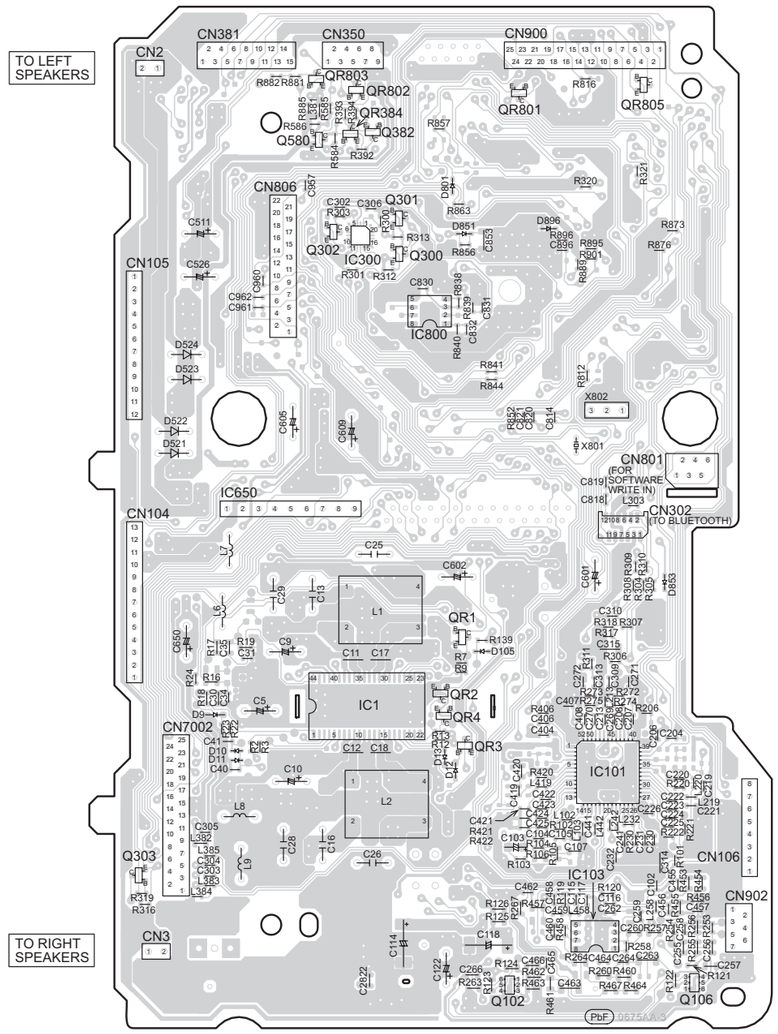
SC-HC40PC
CD SERVO P.C.B.

18.2. VERTICAL MAIN P.C.B.

B VERTICAL MAIN P.C.B. (REPX0819PA)



(SIDE A)

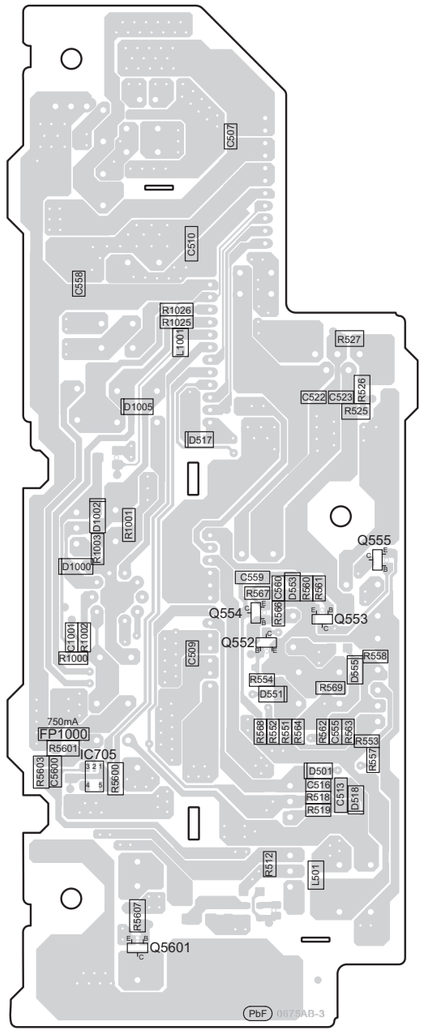


(SIDE B)

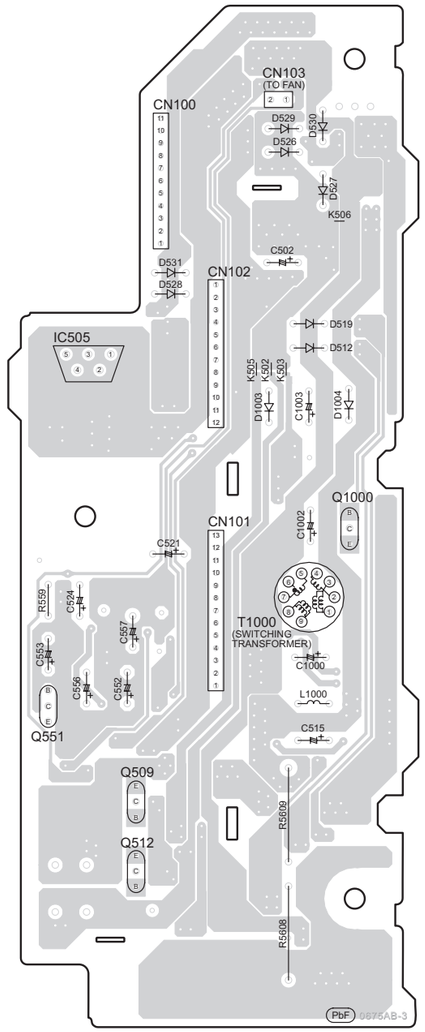
SC-HC40PC
VERTICAL MAIN P.C.B.

18.3. HORIZONTAL MAIN P.C.B.

C HORIZONTAL MAIN P.C.B. (REPX0819PB)



(SIDE A)

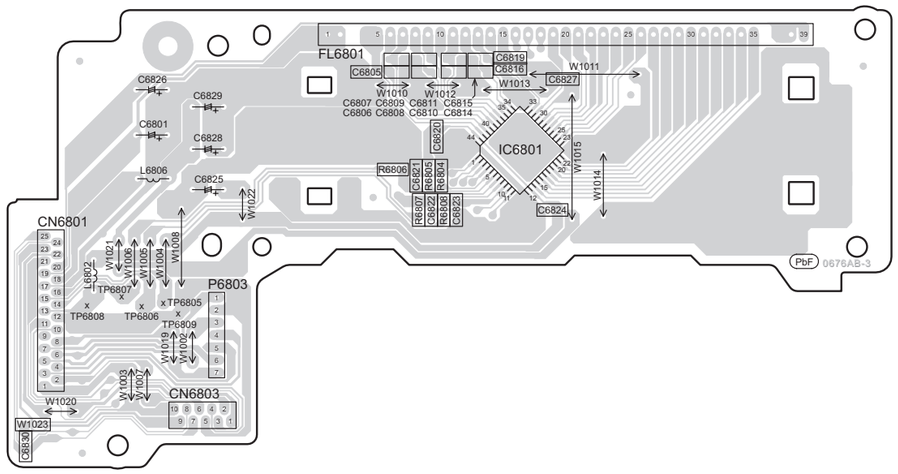


(SIDE B)

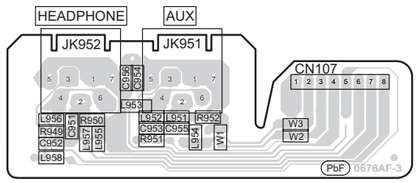
SC-HC40PC
HORIZONTAL MAIN P.C.B.

18.4. PANEL, BUTTON, HEADPHONE/AUX & MOTOR P.C.B.

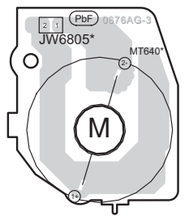
D PANEL P.C.B. (REPX0820HB)



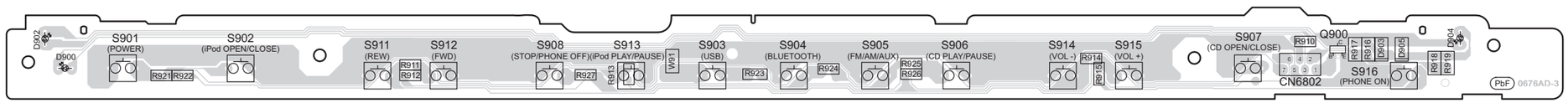
G HEADPHONE/AUX P.C.B. (REPX0820HF)



I MOTOR P.C.B. (REPX0820HE)



E BUTTON P.C.B. (REPX0820HD)

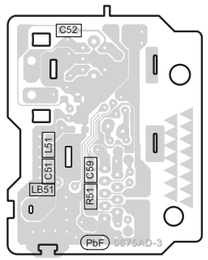


NOTE “*” REF IS FOR INDICATION ONLY

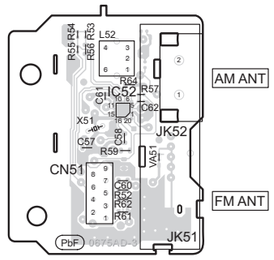
SC-HC40PC
PANEL/ BUTTON/ HEADPHONE/AUX/ MOTOR P.C.B.

18.5. TUNER, IR, iPod/iPhone & iPod/iPhone SWITCH P.C.B.

F TUNER P.C.B. (REPX0819PD)

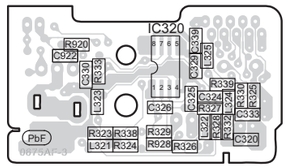


(SIDE A)

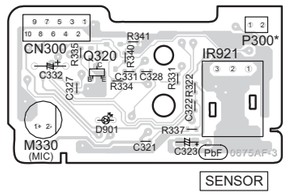


(SIDE B)

H IR P.C.B. (REPX0819PE)

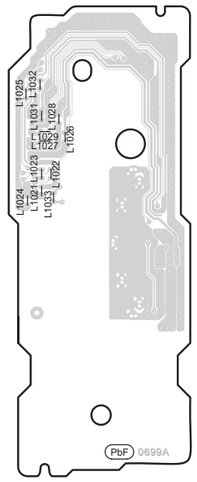


(SIDE A)

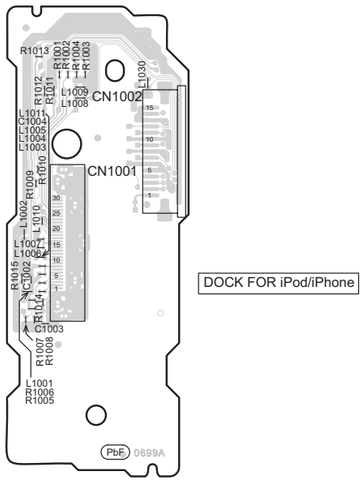


(SIDE B)

J iPod/iPhone P.C.B. (REPX0855A)



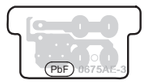
(SIDE A)



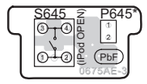
(SIDE B)

DOCK FOR iPod/iPhone

K iPod/iPhone SWITCH P.C.B. (REPX0819PE)



(SIDE A)



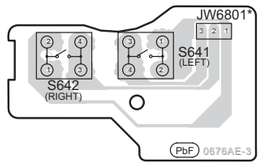
(SIDE B)

NOTE "*" REF IS FOR INDICATION ONLY

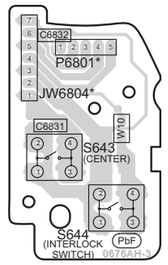
SC-HC40PC
TUNER/ IR/ iPod/iPhone /iPod/iPhone SWITCH P.C.B.

18.6. DOOR SWITCH, INTERLOCK SWITCH & SMPS P.C.B.

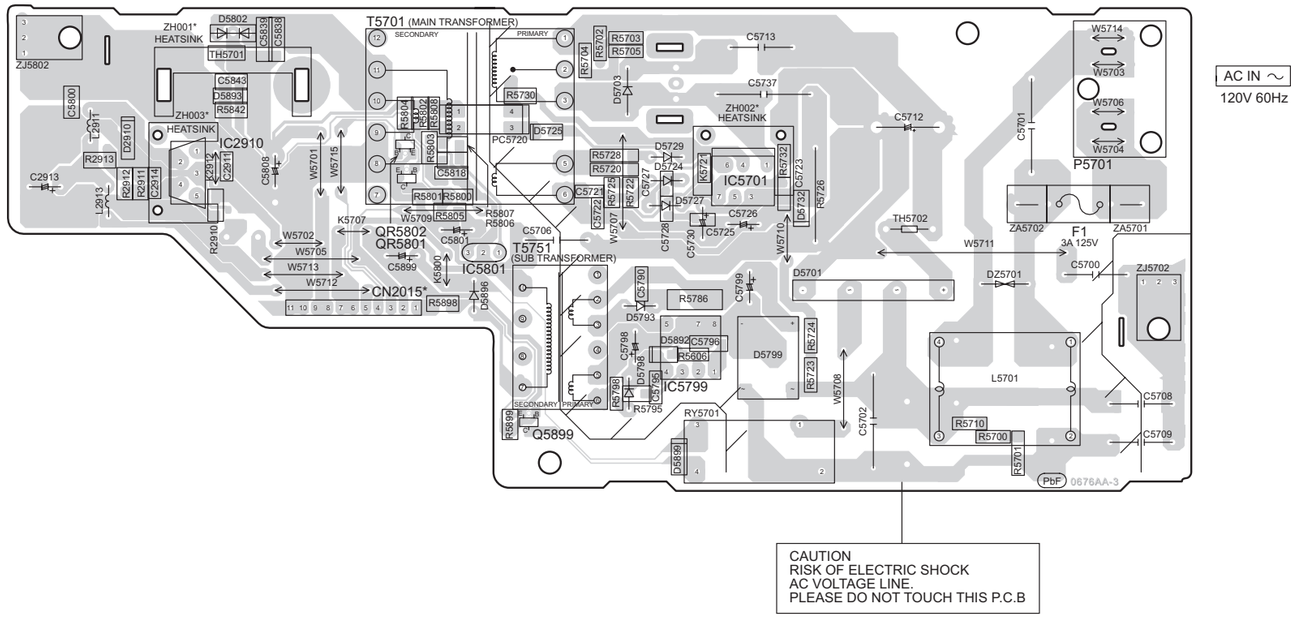
L DOOR SWITCH P.C.B. (REPX0820HE)



M INTERLOCK SWITCH P.C.B. (REPX0820HE)



N SMPS P.C.B. (REPX0820HA)



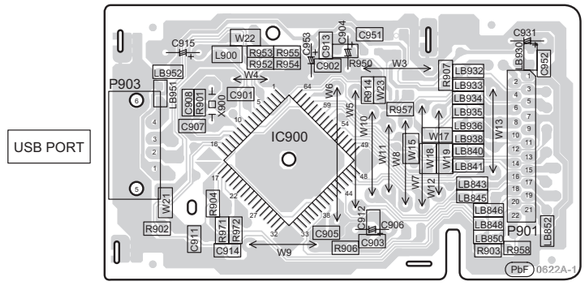
CAUTION
RISK OF ELECTRIC SHOCK
AC VOLTAGE LINE.
PLEASE DO NOT TOUCH THIS P.C.B

NOTE "*" REF IS FOR INDICATION ONLY

SC-HC40PC
DOOR SWITCH/ INTERLOCK SWITCH/ SMPS P.C.B.

18.7. USB P.C.B.

O USB P.C.B. (REPX0720B)



SC-HC40PC
USB P.C.B.

19 Terminal Function of IC's

19.1. IC801 (RFKWMHC40EG) MICRO PROCESSOR IC

Pin No.	Mark	I/O	Function
1	MIC_MUTE	O	Mute Control Signal for Mic
2	BT_LED	O	Bluetooth LED
3	FL_CE	O	FL Display Chip Enable
4	OCD_SDA	O	On Chip Debugger Data
5	DIMMER	O	LED Dimmer
6	OCD_SCK	O	On Chip Debugger Clock
7	PCONT_POW	O	Power Control
8	PCONT_iPod	O	iPod POWER CONTROL
9	MODEL SEL	I	Mode Select
10	NC	-	No connection
11	GND MMOD0	I	Ground
12	OSC2(OUT)	O	Main Oscillator output
13	OSC1(IN)	I	Main Oscillator input
14	VSS	-	Ground
15	XI	O	Slow Oscillator I/P
16	XO	O	Slow Oscillator O/P
17	VDD33	-	3.3V Voltage Supply
18	VDD18	-	1.8V Votage Supply
19	NRST	I	Micro-P Reset
20	USB_IRQ	I	USB Interrupt Request
21	USB MMOD	O	USB Switching Mode
22	USB TERR	I	USB Time Out Error
23	USB VERR	I	USB Verify Error
24	USB RST	O	USB Reset Pin
25	REM_IN	I	Remote Control Input
26	iPod DOCK OPEN	I	iPod Docking Open Detect
27	NC	-	No connection
28	iPod_ACC_CTRL	O	iPod Autnorisation Control
29	CD_BLKCK	I	CD Subcode Block Clock Input
30	TOUCH_INT	-	No connection
31	BT_TX	O	Bluetooth UART Transmitter Data
32	BT_RX	I	Bluetooth UART Reciever Data
33	NC	-	No connection
34	FL_DI	O	FL Data I/P
35	NC	-	No connection
36	FL_CL	O	FL Clock
37	VDD18	-	1.8V Votage Supply
38	DAMP_STBY	O	D-AMP Muting Control
39	VSS	-	Ground
40	ASP_CLK	O	ASPC Clock
41	ASP_DATA	I/O	ASPC Data
42	CD_MLD	O	CD LSI Command Load
43	REST_SW	I	CD Rest Switch
44	CD_RESET	O	CD Reset
45	MUTE_A	O	Audio muting
46	POS_SW_L	I	Position Switch Left Control
47	POS_SW_CEN	I	Position Switch Centre Control
48	POS_SW_R	I	Position Switch Right Control
49	CP_NRST	O	Reset Signal to iPhone
50	CP_SCL	O	12C Clock to iPod IC (Software 12C Control)
51	NC	-	No connection
52	AUX_SW	I	AUX Switch
53	HP_SW	I	Headphone Switch
54	SMPS_BP	O	SMPS Beatproof
55	DAMP_BP	O	D-AMP Beatproof
56	APD CHK	-	No connection
57	NC	-	No connection
58	PWR_LED_CNTL	O	Power Led Control
59	EE_CS	O	EEPROM Control Signal
60	EE_SCL	O	EEPROM Clock Signal
61	EE_SDA	I/O	EEPROM Data Signal
62	CRTIMER	I	CR Timer
63	VSS	-	GND
64	CP_SDA	O	12C Data to iPod IC (Software 12C Contol)
65	LID_LEFT	O	CD LID Left
66	LID_RIGHT	O	CD LID Right
67	NC	-	No connection
68	NC	-	No connection
69	NC	-	No connection
70	NC	-	No connection
71	ECO MODE	O	Economy Mode
72	CD_MDATA	O	CD LSI Command Data
73	CD_STATUS	I	CD LSI Status Input
74	CD_MCLK	O	CD LSI Command Clock
75	NC	-	No connection
76	UART_IN (iPod)	O	Serial UART I/P Communication (iPod)
77	UART_OUT (iPod)	I	Serial UART O/P Communication (iPod)
78	DAB_CTRL CD(L) /DAB(H)	-	No connection
79	TU_SDA	I/O	IIC Serial Data for Tuner (PLL Data I/O)
80	iPod_DET	I	iPod detection. (Output L if NO iPod)
81	TU_SCLK	O	IIC Serial Clock for Tuner (PLL Clock Output)
82	USB_SDATA	I/O	USB I2C Data Line
83	NC	-	No connection
84	USB_CLK	O	USB I2C Clock Line
85	TU_RST	O	Tuner Reset
86	MAIN_VDET	I	Main Supply Voltage Detect
87	TU_INT	I	Interrupt from Tuner
88	iPod_ACC3.3	I	3.3V Voltage Supply (For iPod)
89	VDD	-	Micro-P +5V Voltage Supply
90	NC	-	No connection
91	VSS	-	GND
92	KEY1	I	Key 1 input
93	TEMP_DET	I	Temperature Detec
94	KEY2	I	Key 2 Input
95	PDET2(DAMP)	I	Power Detect 2 (For D-AMP)
96	PDET1(REG)	I	Power Detect 1
97	REGION	I	Region Setting
98	iPod_PDET	I	iPod Power Detect
99	AUDIO_DET	I	Audio Detect
100	VREF+	-	3.3V Reference Voltage

19.2. IC7001 (MN6627954AMA) IC SERVO PROCESSOR

Pin No.	Mark	I/O	Function
1	A9	O	DRAM address signal O/P 9
2	A11	O	DRAM address signal O/P 11
3	A8	O	DRAM address signal O/P 8
4	A7	O	DRAM address signal O/P 7
5	A6	O	DRAM address signal O/P 6
6	A5	O	DRAM address signal O/P 5
7	A4	O	DRAM address signal O/P 4
8	NWE	O	Write Enable Signal (DRAM)
9	NCAS	O	DRAM CAS Control Signal
10	NRAS	O	DRAM ARS Control Signal
11	A3	O	DRAM address Signal O/P 3
12	A2	O	DRAM address Signal O/P 2
13	A1	O	DRAM address Signal O/P 1
14	A0	O	DRAM address Signal O/P 0
15	A10	O	DRAM address Signal O/P 10
16	BA0	-	Motor O/P (0);/Serial I/P
17	BA1	-	Motor O/P (1);/Serial I/P
18	PRAMVSS33	-	GND (DRAM)
19	PRAMVDD33	-	Power Supply Voltage (+1.6V)
20	PRAMVDD15	-	Power Supply Voltage (DRAM)
21	SPOUT	O	Spindle Drive O/P
22	PC	I/O	Spindle motor drive O/P signal serial data/Monitoring I/P
23	TRVP	O	Traverse Drive O/P (+ve)
24	TRP	O	Tracking Drive O/P (+ve)
25	FOP	O	Focusing Drive O/P (+ve)
26	DVSS1	-	GND
27	IODD2	-	Digital Power Supply Voltage 2 (I/O)
28	DVDD1	-	Digital Power Supply Voltage 1 (Built-In)
29	SRVMON0	-	No Connection
30	SRVMON1	-	No Connection
31	AVSS2	-	GND
32	OSCIN	I	Oscillating Input
33	CTRCRS	-	Tracking Cross Comparator
34	VREF	-	+Vref Supply Voltage
35	E	I	Tracking Input Signal 1
36	F	I	Tracking Input Signal 2
37	D	I	Focusing Input Signal 4
38	B	I	Focusing Input Signal 2
39	C	I	Focusing Input Signal 3
40	A	I	Focusing Input Signal 1
41	PD	I	APC Amp I/P
42	LD	O	Laser Drive Current O/P
43	CENV	-	Detection Capacitance Connection terminal
44	RFENV	O	RF Envelope O/P
45	RFOUT	O	RF Summing Amp O/P
46	RFIN	I	SGC I/P
47	AVDD2	-	Analog Power Supply voltage 2 (For DSL/PLL)
48	ARFDC	-	AGC Capacitive Connection Terminal
49	ARFOUT	O	AGC Output
50	ARFFB	I	ARF Feedback Signal I/P
51	ARFIN	I	Audio RF Signal I/P
52	DSLF	I	Loop Filter Terminal (For DSL)
53	IREF	-	Reference I/P
54	PLLF	-	PLL Loop Filter Terminal (Phase Compare)
55	PLLF0	-	PLL Loop Filter Terminal (Speed Compare)
56	OUTL	O	Audio O/P (LCH)
57	AVSS1	-	GND
58	AVDD1	-	Analog Power Supply Voltage 1
59	OUTR	O	Audio O/P (RCH)
60	DVSS3	-	GND3 (Digital Circuit)
61	NSRVMONON	I	Servo Motor O/P Enabling
62	EXT0 / SRDATA (ST_IN)	-	Expansion O/P Port 0
63	EXT1 / LRCK (ST_REQ)	-	Expansion O/P Port 1
64	EXT2 / BCLK (ST_CLK)	-	Expansion O/P Port 2
65	FLAG	-	Flag Signal O/P
66	TX	-	Digital Audio Interface O/P signal
67	MCLK	I	Micro-Computer Command Clock I/P
68	MDATA	I	Micro-Computer Data I/P
69	MLD	I	Micro-Computer Load I/P
70	STAT	O	Status Signal O/P
71	BLKCK	O	Subcode Blk Clock
72	NRST	O	LSI Reset Signal
73	DQSYTXT	-	Pack Signal O/P for CD-Text data
74	SMCK	-	Micro-Computer Clock O/P
75	PMCK	-	IOCNT Serial data O/P (Synchronous O/P)
76	DVDD2	-	Digital Power Supply Voltage 2 (+1.5V)
77	IODD1	-	Digital Power Supply Voltage 1 (For I/O)
78	DVSS2	-	GND2 (For Digital Circuit)
79	NTEST2	I	Test Mode Setting (ON:H)
80	X2	O	Crystal Oscillating Circuit O/P
81	X1	I	Crystal Oscillating Circuit I/P
82	NTEST	I	Test Mode Setting I/P (ON:H)
83	D2	O	Data Signal O/P 2
84	D1	O	Data Signal O/P 1
85	D0	O	Data Signal O/P 0
86	D3	O	Data Signal O/P 3
87	D4	O	Data Signal O/P 4
88	D5	O	Data Signal O/P 5
89	D6	O	Data Signal O/P 6
90	D7	O	Data Signal O/P 7
91	D15	O	Data Signal O/P 15
92	D14	O	Data Signal O/P 14
93	DRVDD	-	I/O Power Supply Voltage (DRAM)
94	D13	O	Data Signal O/P 13
95	D12	O	Data Signal O/P 12
96	D11	O	Data Signal O/P 11
97	D10	O	Data Signal O/P 10
98	D9	O	Data Signal O/P 9
99	D8	O	Data Signal O/P 8
100	SDRCK	O	Clock Signal O/P

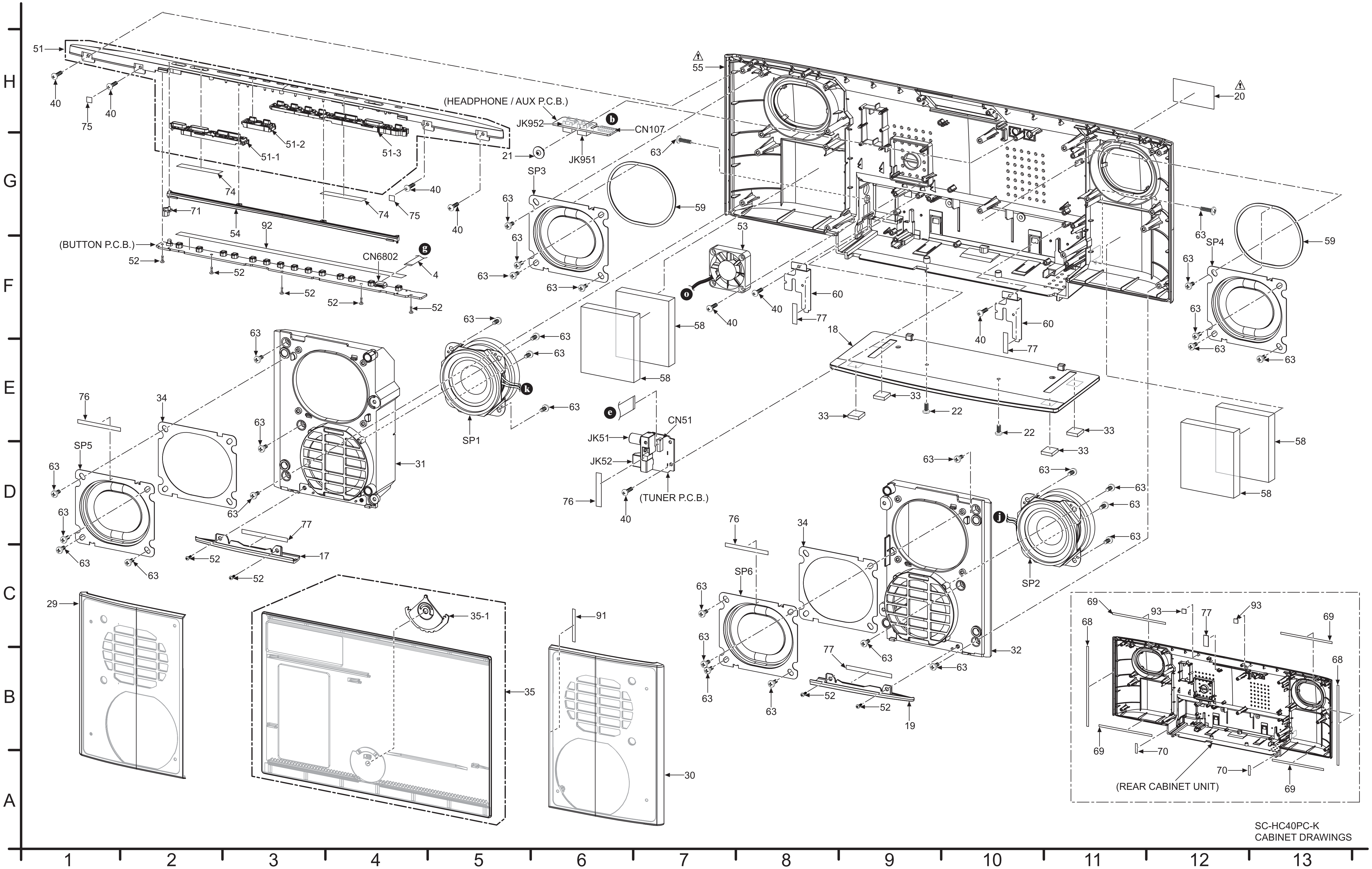
19.3. IC7002 (BA5948FPE2) IC 4CH Drive

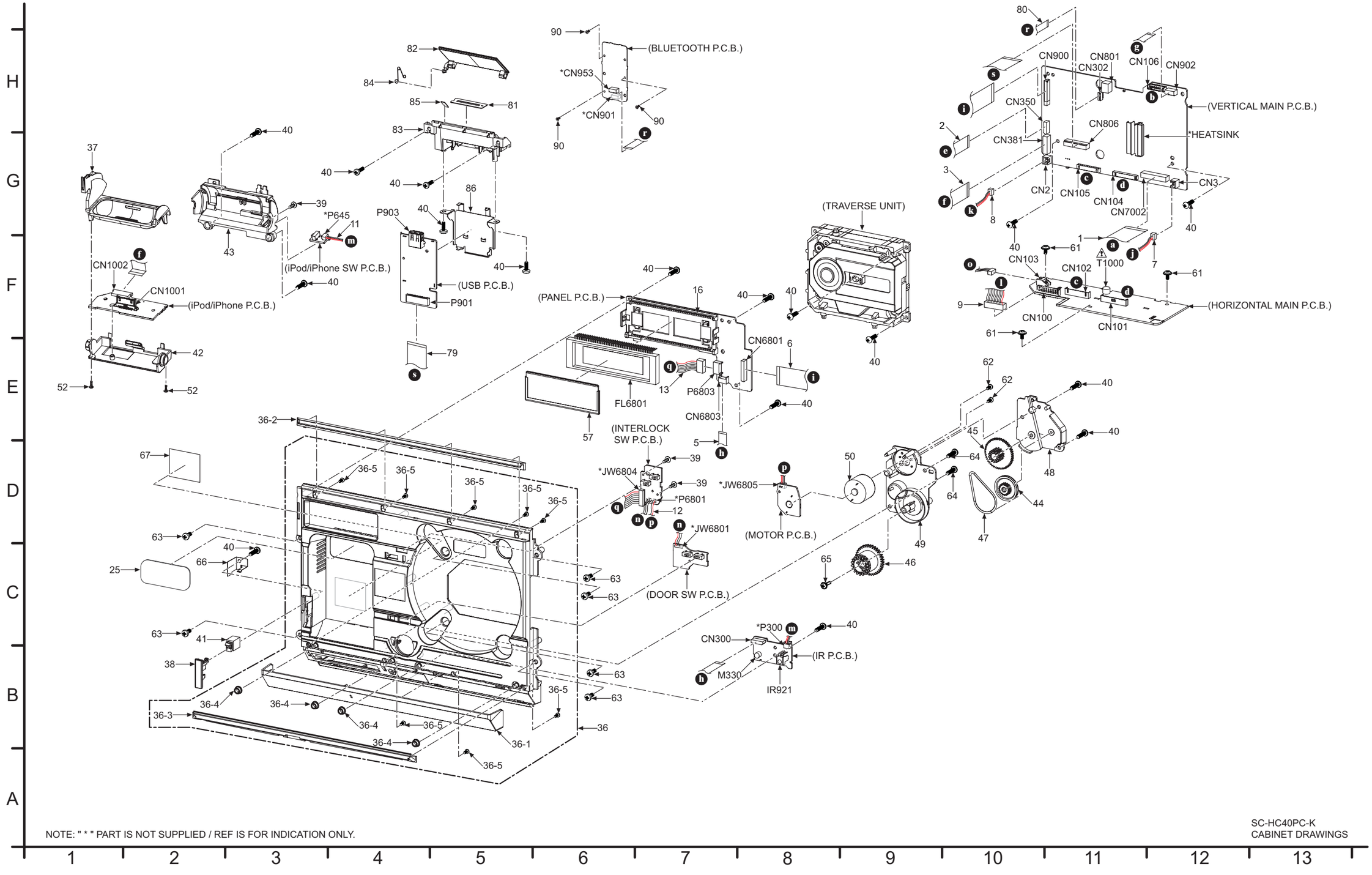
Pin No.	Mark	I/O	Function
1	IN2	I	Motor Driver Input
2	PC2	I	Turntable Motor Drive Signal (L:ON)
3	IN1	I	Motor Drive (1) Input
4	PC1	-	Traverse Motor Drive Signal (L): ON)
5-8	N.C.	-	No Connection
9	PGND1	-	Ground Connection (1) for Drive
10	PVCC1	-	Power Supply (1) for Drive
11	D1-	O	Motor Drive (1)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

20 Exploded View and Replacement Parts List

20.1. Exploded View and Mechanical replacement Parts List

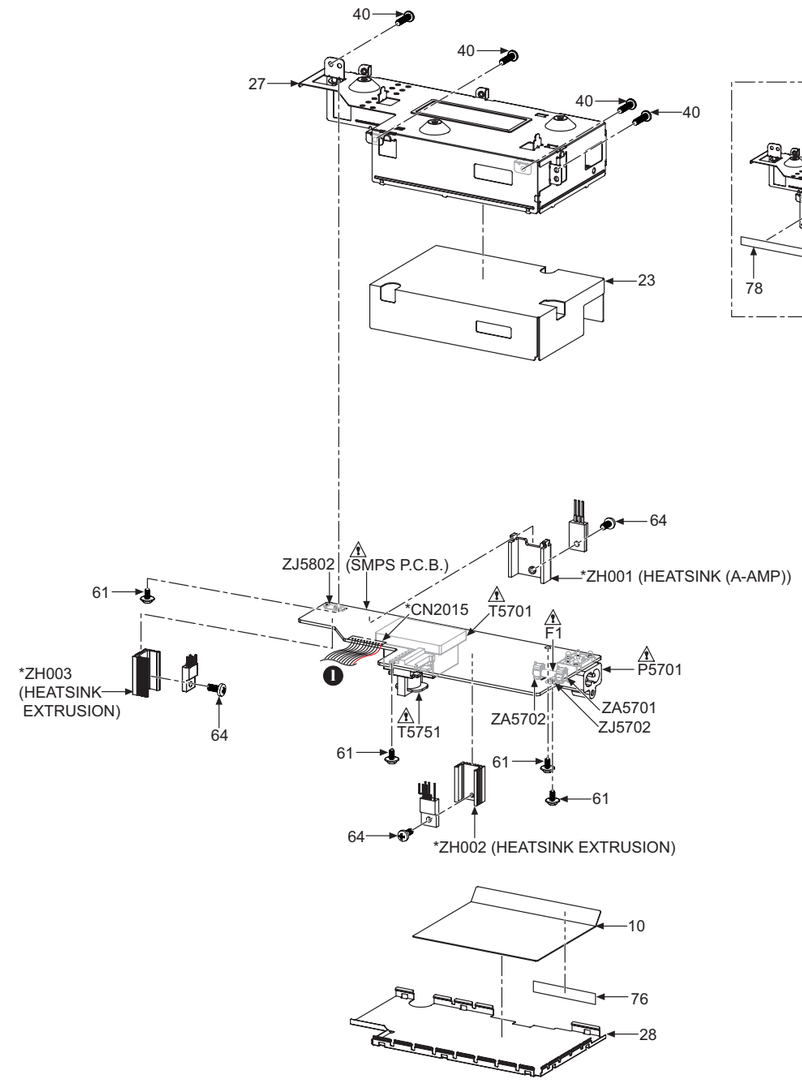
20.1.1. Cabinet Parts Location

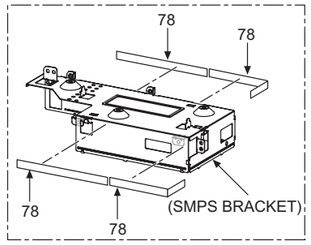




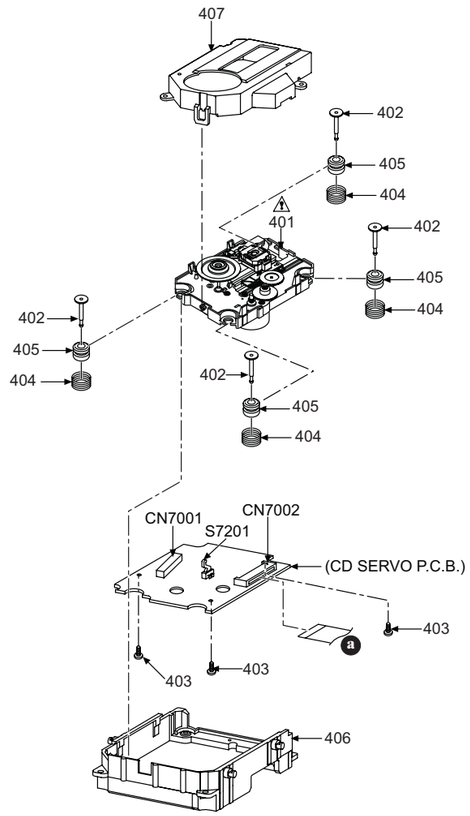
NOTE: " * " PART IS NOT SUPPLIED / REF IS FOR INDICATION ONLY.

SC-HC40PC-K
CABINET DRAWINGS





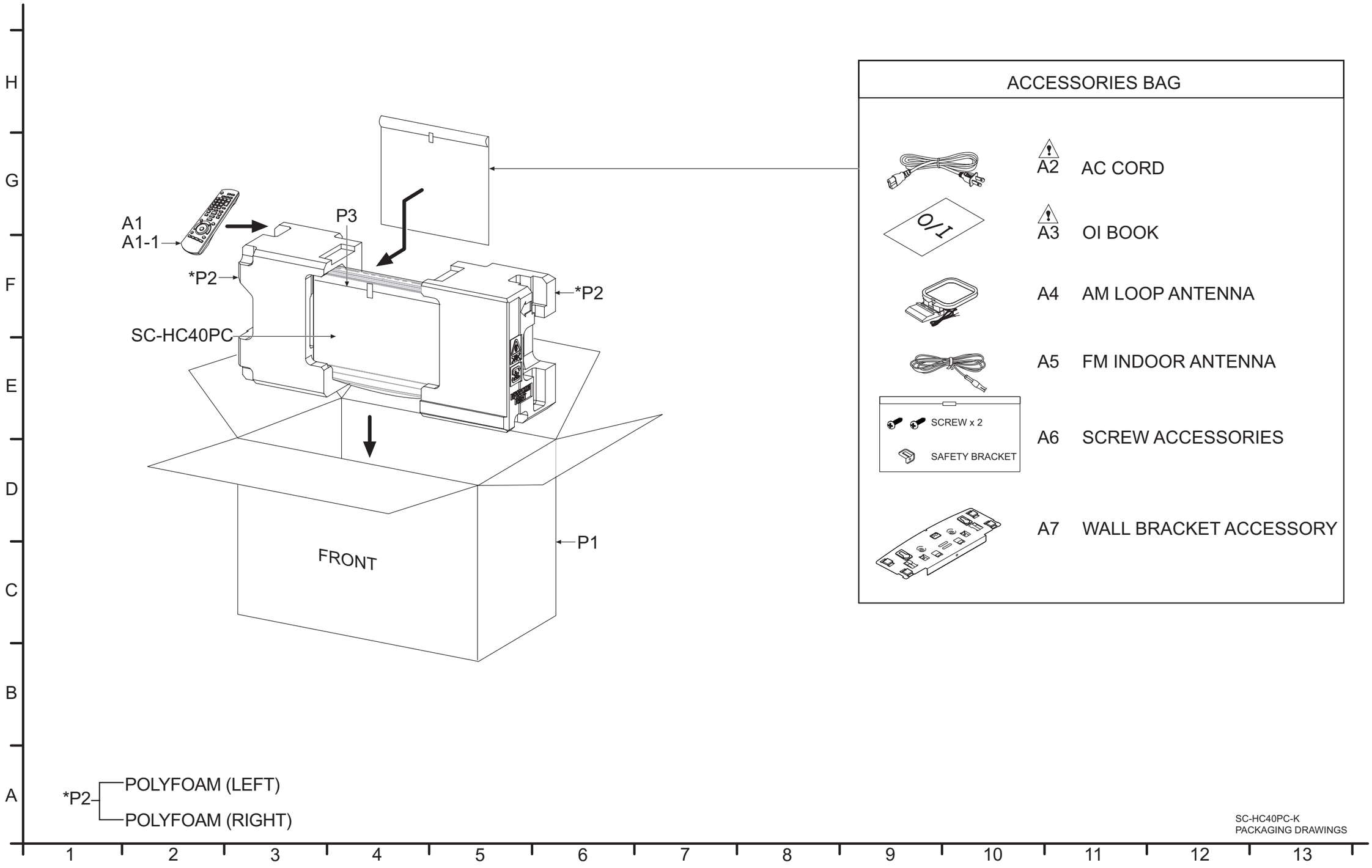
TRAVERSE UNIT



NOTE: " * " PART IS NOT SUPPLIED / REF IS FOR INDICATION ONLY.

SC-HC40PC-K
CABINET / TRAVERSE UNIT DRAWINGS

20.1.2. Packaging



20.1.3. Mechanical Replacement Parts List

Important Safety Notice

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

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Note:

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

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

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			CABINET AND CHASSIS		
	1	REEX1128	25P FFC (CD-VERTICAL MAIN)	1	
	2	REEX1129	9P FFC (TUNER-VERTICAL MAIN)	1	
	3	REEX1130-1	15P FFC (iPod/Iphone-MAIN)	1	
	4	REEX1163	7P FFC (BUTTON-VERTICAL MAIN)	1	
	5	REEX1172	10P FFC (PANEL-IR)	1	
	6	REEX1181	25P FFC (PANEL-VERTICAL MAIN)	1	
	7	REXX1074	2P WIRE (SPEAKER-VERTICAL MAIN)	1	
	8	REXX1075	2P WIRE (SPEAKER-VERTICAL MAIN)	1	
	9	REXX1067-1	11P WIRE (SMPS-HORIZONTAL MAIN)	1	
	10	RMNX1029	SMPS INSULATOR C	1	
	11	REXX1071	2P WIRE (IR-iPod/iPhone SW)	1	
	12	REXX1073-1	5P WIRE (INTERLOCK SW-MOTOR/DOOR SW)	1	
	13	REXX1085-1	7P WIRE (INTERLOCK SW-PANEL)	1	
	16	RMNX0307	FL HOLDER	1	
	17	RGKX1013A-K	BOTTOM ORNAMENT (L)	1	
	18	RGKX1015A-S	BASE STAND	1	
	19	RGKX1028A-K	BOTTOM ORNAMENT (R)	1	
⚠	20	RGNX1045T-K	NAME PLATE LABEL	1	
	21	RHD26016-1L	SCREW	1	
	22	XTB3+8JFJK	SCREW	2	
	23	RMNX1008	SMPS INSULATOR A	1	
	25	RMQX1046	iPod CUSHION	1	
	27	RSCX1018	SMPS BRACKET	1	
	28	RSCX1019	SMPS SHIELD	1	
	29	RYBX1002-K1	NET FRAME UNIT (L)	1	
	30	RKBX1003-K1	NET FRAME UNIT (R)	1	
	31	RKPX1004-K1	SPEAKER FRONT CABINET (L)	1	
	32	RKPX1005-K1	SPEAKER FRONT CABINET (R)	1	
	33	RKAX0028-K	LEG CUSHION	4	
	34	RMQX0362	EVA PACKING (PASSIVE FRONT)	2	
	35	RYPX1015G-K2	DOOR UNIT	1	
	35-1	RDKX0001-2	GEAR CAM	1	
	36	RYPX1018A-K1	FRONT CABINET UNIT	1	
	36-1	RGKX1034A-K	FRONT ORNAMENT	1	
	36-2	RGPX1013-K	GUIDE RAIL TOP	1	
	36-3	RGPX1014-K	GUIDE RAIL BOTTOM	1	
	36-4	RDPV0001	LID ROLLER	4	
	36-5	VHD1224-1	SCREW	8	
	37	RGQX1002-K	DOCKING TUB	1	
	38	RGV0379-K4	PUSH LEVER	1	
	39	RHD14136	SCREW	3	
	40	RHD26045-L	SCREW	29	
	41	RHQX0003	MINI SIDE LOCK	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	42	RMQX1023-K	DOCKING COVER	1	
	43	RMQX1024-K	DOCKING HOLDER	1	
	44	RDG0546	BELT PULLEY	1	
	45	RDGX0050	MIDDLE GEAR	1	
	46	RDGX0051	DRIVE GEAR	1	
	47	RDVX0001	BELT	1	
	48	RMKX0159-1	GEAR FIXTURE	1	
	49	RMKX0160-1	GEAR BASE	1	
	50	RXQ1690	MOTOR UNIT	1	
	51	RYPX1029H-S	TOP ORNAMENT UNIT	1	
	51-1	RGUX1015B2SJ	POWER BUTTON	1	
	51-2	RGUX1019-1SJ	iPod PLAY BUTTON	1	
	51-3	RGUX1012A2SJ	CD EJECT BUTTON	1	
	52	VHD1224-1	SCREW	11	
	53	L6FAYYYH0122	FAN UNIT	1	
	54	RGLX1004-Q	LIGHTING BAR	1	
⚠	55	RYKX1026J-K	REAR CABINET UNIT	1	
	57	RGQX1005	FL FILTER	1	
	58	RMFX1024	ACOUSTIC ABSORBER	4	
	59	RMQX0361	EVA PACKING PASSIVE REAR	2	
	60	RSCX1030	BRACKET R	2	
	61	RHDX301002	SCREW	7	
	62	XSN2+4FJ	SCREW	2	
	63	XTB3+10JFJK	SCREW	38	
	64	XTB3+8JFJ	SCREW	5	
	65	XTW3+16TFJK	SCREW	1	
	66	RMC0780A	iPod SPRING PLATE	1	
	67	RSCX1034	iPhone SHIELD	1	
	68	RMQX0358	EVA PACKING FRAME A	2	
	69	RMQX0357	EVA PACKING FRAME	4	
	70	RMQX1048	EPT SEALER BARRIER	2	
	71	RGLX1003-Q	LIGHTING PIECE	1	
	74	RMFX1023	HIMELON (BUTTON)	2	
	75	RMFX1038	HIMELON (SCREW)	2	
	76	RMFX1026	HIMELON (SP NET SMPS INSULATOR C)	4	
	77	RMFX1027	HIMELON (BTM ORNAMENT, BOSS REAR CABINET)	5	
	78	RMFX1028	HIMELON (SMPS SHIELD)	4	
	79	REEX1132-J	22P FFC (USB-VERTICAL MAIN)	1	
	80	REEX1133-J	12P FFC (BLUETOOTH-VERTICAL MAIN)	1	
	81	RGQX0053-K	USB PANEL	1	
	82	RGQX1001A-K	SD LID	1	
	83	RGQX1003-K	SD HOLDER	1	
	84	RMCX1002	CRADLE LID SPRING	1	
	85	RMGX0033	CUSHION RUBBER	1	
	86	RSCX0211	USB SHIELD PLATE	1	
	90	RHD14129	SCREW	3	
	91	RMFX1037	HIMELON (SP NET FRAME R)	1	
	92	RMFX1034	PC SHEET (BUTTON PCB)	1	
	93	RMQX1057	HIMELON (REAR CABINET)	2	
			SPEAKERS		
	SP1	EAS65P144B	FRONT SPEAKER	1	
	SP2	EAS65P144B	FRONT SPEAKER	1	
	SP3	EAS8DY01B	PASSIVE RADIATOR	1	
	SP4	EAS8DY01B	PASSIVE RADIATOR	1	
	SP5	EAS8DY01B	PASSIVE RADIATOR	1	
	SP6	EAS8DY01B	PASSIVE RADIATOR	1	
			TRAVERSE DECK		
⚠	401	RAE0165T-V	TRAVERSE UNIT ASS'Y	1	
	402	RMS0757-1	FIXED PIN	4	
	403	XTN2+6GFJ	SCREW	3	
	404	RME0109-1	FLOATING SPRING	4	
	405	RMG0730-G	FLOATING RUBBER	4	
	406	RMR1395A-X	MIDDLE CHASSIS	1	
	407	RMR1396-K	TRAVERSE COVER	1	
			PACKING MATERIALS		
	P1	RPGX3390	PACKING CASE	1	
	P2	RPNX1022-1	POLYFOAM	1	
	P3	RPFX0262-1	MIRAMAT SHEET	1	
			ACCESSORIES		
	A1	N2QAYB000523	REMOTE CONTROL	1	
	A1-1	RKK-PT470EBK	R/C BATTERY COVER	1	
⚠	A2	K2CB2CB00021	AC CORD	1	
⚠	A3	RQTX1217-C	OI BOOK (En/Cf)	1	
	A4	N1DYYYY00010	AM LOOP ANTENNA	1	
	A5	RSAX0002	FM INDOOR ANTENNA	1	
	A6	RFAX1020	SCREW ACCESSORY	1	
	A7	RFAX1021	WALL BRACKET ACCESSORY	1	

20.2. Electrical Replacement Parts List

Important Safety Notice

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

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Note:

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

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			PRINTED CIR-CUITS BOARDS		
	PCB1	REPX0720B	USB P.C.B.	1	
	PCB2	REPX0723A	CD SERVO P.C.B.	1	
	PCB4	REPX0819PA	VERTICAL MAIN P.C.B.	1	
	PCB5	REPX0819PB	HORIZONTAL MAIN P.C.B.	1	
	PCB6	REPX0819PD	TUNER P.C.B.	1	
	PCB7	REPX0819PE	IR P.C.B.	1	
	PCB8	REPX0819PE	iPod/iPhone SWITCH P.C.B.	1	
⚠	PCB10	REPX0820HA	SMPS P.C.B.	1	
	PCB11	REPX0820HB	PANEL P.C.B.	1	
	PCB12	REPX0820HD	BUTTON P.C.B.	1	
	PCB13	REPX0820HE	MOTOR P.C.B.	1	
	PCB14	REPX0820HE	DOOR SWITCH P.C.B.	1	
	PCB15	REPX0820HE	INTERLOCK SWITCH P.C.B.	1	
	PCB16	REPX0820HF	HEADPHONE/AUX P.C.B.	1	
	PCB17	REPX0855A	iPod/iPhone P.C.B.	1	
	PCB18	REPX4229C	BLUE TOOTH P.C.B.	1	
			INTEGRATED CIR-CUITS		
	IC1	C1AB00003012	IC	1	
	IC52	VUEALLPT031	IC	1	[SPG]
	IC101	C1AB00003256	IC	1	
	IC103	C0ABBB000216	IC	1	
	IC300	MFI341S2164	IC	1	
	IC302	C0ABBB000230	IC	1	
	IC320	C0ABBB000230	IC	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	IC503	C0CBCBC00140	IC	1	
	IC505	C0DAEJG00001	IC	1	
	IC601	C0CBADD00010	IC	1	
	IC650	C0GAE0000007	IC	1	
	IC705	C0EBJ0000336	IC	1	
	IC800	C3EBFY000006	IC	1	
	IC801	RFKWMHC40EG	IC	1	
	IC802	C0DBFYY00049	IC	1	
	IC803	C0EBE0000434	IC	1	
	IC900	MNZSFB5KJM2	IC	1	
	IC2801	C0ABBB000179	IC	1	
	IC2802	C0ABBB000179	IC	1	
	IC2910	C0DAAYH00001	IC	1	
	IC5701	C0DAAMH00013	IC	1	
	IC5799	MIP2F20MSSCF	IC	1	
	IC5801	C0DAEMZ00001	IC	1	
	IC6801	C0HBB0000061	IC	1	
	IC7001	MN6627954AMA	IC	1	
	IC7002	BA5948FPE2	IC	1	
	IC7003	C3ABMB000050	IC	1	
			TRANSISTORS		
	Q102	B1GFGCAA0001	TRANSISTOR	1	
	Q106	B1GFGCAA0001	TRANSISTOR	1	
	Q300	B1CFGC000004	TRANSISTOR	1	
	Q301	B1CFGC000004	TRANSISTOR	1	
	Q302	B1GBCFLL0037	TRANSISTOR	1	
	Q303	B1ADCE000012	TRANSISTOR	1	
	Q320	B1GBCFJJ0051	TRANSISTOR	1	
	Q382	B1ADCE000012	TRANSISTOR	1	
	Q509	B1BAAJ000003	TRANSISTOR	1	
	Q512	B1ACND000003	TRANSISTOR	1	
	Q551	B1ACKD000006	TRANSISTOR	1	
	Q552	B1ABCF000176	TRANSISTOR	1	
	Q553	B1ABCF000176	TRANSISTOR	1	
	Q554	B1ABCF000176	TRANSISTOR	1	
	Q555	B1ABCF000176	TRANSISTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	Q580	B1ABDF000026	TRANSISTOR	1	
	Q900	B1GBCFJN0033	TRANSISTOR	1	
	Q1000	B1BABK000001	TRANSISTOR	1	
	Q5601	B1ABEC000010	TRANSISTOR	1	
	Q5899	B1ABCF000011	TRANSISTOR	1	
	Q7601	B1ADCF000001	TRANSISTOR	1	
	QR1	B1GBCFJJ0051	TRANSISTOR	1	
	QR2	B1GBCFJJ0051	TRANSISTOR	1	
	QR3	B1GBCFJJ0051	TRANSISTOR	1	
	QR4	B1GBCFJJ0051	TRANSISTOR	1	
	QR101	B1GDCFGG0026	TRANSISTOR	1	
	QR121	B1GBCFNN0038	TRANSISTOR	1	
	QR384	B1GBCFJJ0051	TRANSISTOR	1	
	QR801	B1GBCFJJ0051	TRANSISTOR	1	
	QR802	B1GBCFJJ0051	TRANSISTOR	1	
	QR803	B1GBCFJJ0051	TRANSISTOR	1	
	QR804	B1GDCFJJ0044	TRANSISTOR	1	
	QR805	B1GBCFJJ0051	TRANSISTOR	1	
	QR5801	B1GBCFJJ0051	TRANSISTOR	1	
	QR5802	B1GBCFJJ0051	TRANSISTOR	1	
			DIODES		
	D3	B0JCME000035	DIODE	1	
	D4	B0JCME000035	DIODE	1	
	D5	B0JCME000035	DIODE	1	
	D6	B0JCME000035	DIODE	1	
	D9	MAZ8033G0L	DIODE	1	
	D10	MA2SD320GL	DIODE	1	
	D11	MA2SD320GL	DIODE	1	
	D12	MA2J1110GL	DIODE	1	
	D13	MA2J1110GL	DIODE	1	
	D105	B0ACCK000012	DIODE	1	
	D501	B0ACCK000012	DIODE	1	
	D512	B0EAKM000117	DIODE	1	
	D513	B0ACCK000012	DIODE	1	
	D517	B0ACCK000012	DIODE	1	
	D518	B0BC6R2A0266	DIODE	1	
	D519	B0EAKM000117	DIODE	1	
	D521	B0EAKM000117	DIODE	1	
	D522	B0EAKM000117	DIODE	1	
	D523	B0EAKM000117	DIODE	1	
	D524	B0EAKM000117	DIODE	1	
	D526	B0EAKM000117	DIODE	1	
	D527	B0EAKM000117	DIODE	1	
	D528	B0EAKM000117	DIODE	1	
	D529	B0EAKM000117	DIODE	1	
	D530	B0EAKM000117	DIODE	1	
	D531	B0EAKM000117	DIODE	1	
	D551	B0ACCK000012	DIODE	1	
	D553	B0ACCK000012	DIODE	1	
	D555	B0ACCK000012	DIODE	1	
	D601	B0ACCK000012	DIODE	1	
	D801	B0ACCE000003	DIODE	1	
	D851	B0ACCK000012	DIODE	1	
	D853	B0ACCK000012	DIODE	1	
	D896	B0BC3R3A0262	DIODE	1	
	D900	B3AAA0000381	DIODE	1	
	D901	B3AEA0000129	DIODE	1	
	D902	B3AEA0000074	DIODE	1	
	D903	B0BC8R100004	DIODE	1	
	D904	B3AEA0000074	DIODE	1	
	D905	B0BC8R100004	DIODE	1	
	D1000	B0BC036A0264	DIODE	1	
	D1002	B0BC027A0264	DIODE	1	
	D1003	B0EAMM000057	DIODE	1	
	D1004	B0JAME000029	DIODE	1	
	D1005	B0BC3R0A0262	DIODE	1	
	D2800	B0ACCK000005	DIODE	1	
	D2910	B0JCPD000025	DIODE	1	
	D5701	B0EBNR000045	DIODE	1	
	D5703	B0EAKU000001	DIODE	1	
	D5724	B0HAJM000005	DIODE	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	D5725	B0BC6R100010	DIODE	1	
	D5727	B0HAJM000005	DIODE	1	
	D5729	B0HAJM000005	DIODE	1	
	D5732	B0BC030A0264	DIODE	1	
	D5793	B0HAMP000094	DIODE	1	
	D5798	B0EAMM000057	DIODE	1	
	D5799	B0EDKT000009	DIODE	1	
	D5802	B0ABSM000008	DIODE	1	
	D5892	B0BC01200019	DIODE	1	
	D5893	B0BC3R0A0262	DIODE	1	
	D5896	B0JAMF000011	DIODE	1	
	D5899	B0ACCK000012	DIODE	1	
	D7650	MAZ8056GML	DIODE	1	
⚠	DZ5701	ERZVA5Z471	ZNR	1	
			VARISTORS		
	VA51	EZAEG2A50AX	VARISTOR	1	
			SWITCHES		
	S641	K0L1BA000078	SW LEFT	1	
	S642	K0L1BA000078	SW RIGHT	1	
	S643	K0L1BA000078	SW CENTER	1	
	S644	K0L1BA000078	SW INTERLOCK	1	
	S645	K0L1BA000078	SW iPod DOCK OPEN	1	
	S901	EVQ11G04M	SW POWER	1	
	S902	EVQ11G04M	SW iPod OPEN/CLOSE	1	
	S903	EVQ11G04M	SW USB PLAY/PAUSE	1	
	S904	EVQ11G04M	SW BLUETOOTH PLAY/PAUSE	1	
	S905	EVQ11G04M	SW FM/AM/AUX	1	
	S906	EVQ11G04M	SW CD PLAY/PAUSE	1	
	S907	EVQ11G04M	SW CD OPEN/CLOSE	1	
	S908	EVQ11G04M	SW STOP/PHONE OFF	1	
	S911	EVQ11G04M	SW REW	1	
	S912	EVQ11G04M	SW FWD	1	
	S913	EVQ11G04M	SW iPod PLAY/PAUSE	1	
	S914	EVQ11G04M	SW VOL-	1	
	S915	EVQ11G04M	SW VOL+	1	
	S916	EVQ11G04M	SW PHONE ON	1	
	S7201	RSH1A048-A	SW REST	1	
			CONNECTORS		
	CN2	K1KA02AA0180	2P CONNECTOR	1	
	CN3	K1KA02AA0180	2P CONNECTOR	1	
	CN51	K1MN09AA0003	9P CONNECTOR	1	
	CN100	K1KA11AA0194	11P CONNECTOR	1	
	CN101	K1KA13AA0031	13P CONNECTOR	1	
	CN102	K1KA12AA0031	12P CONNECTOR	1	
	CN103	K1KA02BA0125	2P CONNECTOR	1	
	CN104	K1KB13B00017	13P CONNECTOR	1	
	CN105	K1KB12B00037	12P CONNECTOR	1	
	CN106	K1KA08AA0031	8P CONNECTOR	1	
	CN107	K1KB08B00041	8P CONNECTOR	1	
	CN300	K1MN10AA0003	10P CONNECTOR	1	
	CN302	K1MY12AA0021	12P CONNECTOR	1	
	CN350	K1MN09AA0003	9P CONNECTOR	1	
	CN381	K1MN15AA0003	15P CONNECTOR	1	
	CN801	K1MN06C00005	6P CONNECTOR	1	
	CN806	K1MN22AA0004	22P CONNECTOR	1	
	CN900	K1MN25AA0004	25P CONNECTOR	1	
	CN902	K1MN07AA0003	7P CONNECTOR	1	
	CN1001	MFI514S0117	30P CONNECTOR	1	
	CN1002	K1MN15BA0139	15P CONNECTOR	1	
	CN6801	K1MN25B00019	25P CONNECTOR	1	
	CN6802	K1MN07B00009	7P CONNECTOR	1	
	CN6803	K1MN10BA0004	10P CONNECTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	CN7001	K1MN16B00154	16P CONNECTOR	1	
	CN7002	K1MN25AA0004	25P CONNECTOR	1	V.MAIN
	CN7002	K1MN25B00019	25P CONNECTOR	1	CD SERVO
	P901	K1MN22BA0005	22P CONNECTOR	1	
	P903	K1FY104B0011	USB CONNECTOR	1	
	P6803	K1KA07BA0061	7P CONNECTOR	1	
			COILS AND INDUCTOR		
	L1	G1C100M00045	INDUCTOR	1	
	L2	G1C100M00045	INDUCTOR	1	
	L6	G0AR76Y00003	COIL	1	
	L7	G0AR76Y00003	COIL	1	
	L8	G0AR76Y00003	COIL	1	
	L9	G0AR76Y00003	COIL	1	
	L51	G1CR18JA0020	INDUCTOR	1	
	L52	G2A380Y00001	COIL	1	
	L101	J0JBC0000030	INDUCTOR	1	
	L102	J0JYB0000013	INDUCTOR	1	
	L103	J0JYB0000013	INDUCTOR	1	
	L114	J0JBC0000030	INDUCTOR	1	
	L212	J0JBC0000030	INDUCTOR	1	
	L213	J0JBC0000030	INDUCTOR	1	
	L214	J0JBC0000030	INDUCTOR	1	
	L219	J0JBC0000030	INDUCTOR	1	
	L220	J0JBC0000030	INDUCTOR	1	
	L242	J0JBC0000030	INDUCTOR	1	
	L258	J0JBC0000030	INDUCTOR	1	
	L302	J0JHC0000034	INDUCTOR	1	
	L303	J0JBC0000030	INDUCTOR	1	
	L314	J0JBC0000030	INDUCTOR	1	
	L321	J0JBC0000030	INDUCTOR	1	
	L322	J0JBC0000030	INDUCTOR	1	
	L323	J0JBC0000030	INDUCTOR	1	
	L324	J0JBC0000030	INDUCTOR	1	
	L325	J0JBC0000030	INDUCTOR	1	
	L350	J0JBC0000030	INDUCTOR	1	
	L381	J0JHC0000034	INDUCTOR	1	
	L382	J0JHC0000034	INDUCTOR	1	
	L412	J0JBC0000030	INDUCTOR	1	
	L419	J0JBC0000030	INDUCTOR	1	
	L442	J0JBC0000030	INDUCTOR	1	
	L458	J0JBC0000030	INDUCTOR	1	
	L501	J0JHC0000034	INDUCTOR	1	
	L900	G1C100K00019	INDUCTOR	1	
	L900	J0JBC0000030	INDUCTOR	1	
	L951	J0JBC0000019	INDUCTOR	1	
	L952	J0JBC0000019	INDUCTOR	1	
	L953	J0JBC0000019	INDUCTOR	1	
	L954	J0JBC0000019	INDUCTOR	1	
	L955	J0JBC0000019	INDUCTOR	1	
	L956	J0JBC0000019	INDUCTOR	1	
	L957	J0JBC0000019	INDUCTOR	1	
	L958	J0JBC0000019	INDUCTOR	1	
	L1000	G0C390JA0055	INDUCTOR	1	
	L1001	J0JBC0000041	INDUCTOR	1	
	L1001	J0JFC0000006	INDUCTOR	1	
	L1002	J0JFC0000006	INDUCTOR	1	
	L1003	J0JGC0000071	INDUCTOR	1	
	L1004	J0JGC0000071	INDUCTOR	1	
	L1005	J0JGC0000071	INDUCTOR	1	
	L1006	J0JGC0000071	INDUCTOR	1	
	L1007	J0JGC0000071	INDUCTOR	1	
	L1008	J0JFC0000006	INDUCTOR	1	
	L1009	J0JFC0000006	INDUCTOR	1	
	L1010	J0JGC0000071	INDUCTOR	1	
	L1011	J0JFC0000006	INDUCTOR	1	
	L1032	J0JBC0000015	INDUCTOR	1	
	L2911	G0A101ZA0028	COIL	1	
	L2913	G0A100GA0013	COIL	1	
	L6802	G0C3R3JA0055	INDUCTOR	1	
	L6806	G0C101JA0055	INDUCTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	LB51	J0JBC0000032	INDUCTOR	1	
			FILTERS		
⚠	L5701	G0B453G00003	FILTER	1	
			TRANSFORMERS		
⚠	T1000	G4D1A0000117	SWTCHING TRANSFORMER	1	
⚠	T5701	ETS28BH156AC	TRANSFORMER	1	
⚠	T5751	ETS19AB221AG	SUB TRANSFORMER	1	
			PHOTO COUPLER		
⚠	PC5720	B3PBA0000402	PHOTO COUPLER	1	
			EARTH TERMINALS		
	ZJ5702	K4CZ01000027	TERMINAL	1	
	ZJ5802	K4CZ01000027	TERMINAL	1	
			MICROPHONE		
	M330	L0CBAB000124	MICROPHONE	1	
			REMOTE CONTROL SENSOR		
	IR921	B3RAC0000017	REMOTE CONTROL SENSOR	1	
			OSCILLATOR		
	X51	H0A327200097	CRYSTAL OSCILLATOR	1	
	X801	H0A327200097	CRYSTAL OSCILLATOR	1	
	X802	H2B800400005	CRYSTAL OSCILLATOR	1	
	X900	H0A120500009	CRYSTAL OSCILLATOR	1	
	X7201	H0H169500013	CRYSTAL OSCILLATOR	1	
			RELAY		
⚠	RY5701	K6B1AEA00003	RELAY	1	
			FL DISPLAY		
	FL6801	A2BB00000172	LCD DISPLAY	1	
			FUSE		
⚠	F1	K5D302AQ0003	FUSE	1	
			FUSE HOLDERS		
	ZA5701	K3GE1ZZ00001	FUSE HOLDER	1	
	ZA5702	K3GE1ZZ00001	FUSE HOLDER	1	
			FUSE PROTECTORS		
⚠	FP1000	K5H7512A0010	PROTECTOR	1	
			THERMISTORS		
⚠	TH5701	D4CC11040013	THERMISTOR	1	
⚠	TH5702	D4CAA5R10001	THERMISTOR	1	
			JACKS		
	JK51	K4ZZ02000103	JK FM ANT	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	JK52	K4AC02B00042	JK AM ANT	1	
	JK951	K2HC1YYB0033	JK AUX	1	
	JK952	K2HC1YYB0033	JK HEADPHONE	1	
⚠	P5701	K2AB2B000007	AC INLET	1	
			CHIP JUMERS		
	L232	D0GBR00JA008	0 1/16W	1	
	L383	D0GBR00JA008	0 1/16W	1	
	L384	D0GBR00JA008	0 1/16W	1	
	L385	D0GBR00JA008	0 1/16W	1	
	L1021	D0GBR00JA008	0 1/16W	1	
	L1022	D0GBR00JA008	0 1/16W	1	
	L1023	D0GBR00JA008	0 1/16W	1	
	L1024	D0GBR00JA008	0 1/16W	1	
	L1025	D0GBR00JA008	0 1/16W	1	
	L1026	D0GBR00JA008	0 1/16W	1	
	L1027	D0GBR00JA008	0 1/16W	1	
	L1028	D0GBR00JA008	0 1/16W	1	
	L1029	D0GBR00JA008	0 1/16W	1	
	L1030	D0GBR00JA008	0 1/16W	1	
	L1031	D0GBR00JA008	0 1/16W	1	
	L1033	D0GBR00JA008	0 1/16W	1	
	LB840	D0GBR00JA008	0 1/16W	1	
	LB841	D0GBR00JA008	0 1/16W	1	
	LB843	D0GBR00JA008	0 1/16W	1	
	LB845	D0GBR00JA008	0 1/16W	1	
	LB846	D0GBR00JA008	0 1/16W	1	
	LB848	D0GBR00JA008	0 1/16W	1	
	LB850	D0GBR00JA008	0 1/16W	1	
	LB852	D0GBR00JA008	0 1/16W	1	
	LB930	D0GBR00JA008	0 1/16W	1	
	LB932	D0GBR00JA008	0 1/16W	1	
	LB933	D0GBR00JA008	0 1/16W	1	
	LB934	D0GBR00JA008	0 1/16W	1	
	LB935	D0GBR00JA008	0 1/16W	1	
	LB936	D0GBR00JA008	0 1/16W	1	
	LB938	D0GBR00JA008	0 1/16W	1	
	LB951	D0GBR00JA008	0 1/16W	1	
	LB952	D0GBR00JA008	0 1/16W	1	
	K502	D0GDR00JA017	0 1/10W	1	
	K503	D0GDR00JA017	0 1/10W	1	
	K505	D0GDR00JA017	0 1/10W	1	
	K506	D0GBR00JA008	0 1/16W	1	
	K600	D0GBR00JA008	0 1/16W	1	
	K5721	D0GBR00JA008	0 1/16W	1	
	W1	D0GBR00JA008	0 1/16W	1	
	W2	D0GBR00JA008	0 1/16W	1	
	W3	D0GBR00JA008	0 1/16W	1	
	W10	D0GDR00JA017	0 1/10W	1	
	W15	D0GDR00JA017	0 1/10W	1	
	W17	D0GDR00JA017	0 1/10W	1	
	W18	D0GDR00JA017	0 1/10W	1	
	W19	D0GDR00JA017	0 1/10W	1	
	W21	D0GDR00JA017	0 1/10W	1	
	W22	D0GDR00JA017	0 1/10W	1	
	W23	D0GBR00JA008	0 1/16W	1	
	W91	D0GDR00JA017	0 1/10W	1	
	W1023	D0GBR00JA008	0 1/16W	1	
			RESISTORS		
	LB7262	D0GB221JA008	220 1/16W	1	
	LB7263	D0GB221JA008	220 1/16W	1	
	LB7264	D0GB221JA008	220 1/16W	1	
	R1	D0GB223JA008	22K 1/16W	1	
	R2	D0GB223JA008	22K 1/16W	1	
	R3	D0GB223JA008	22K 1/16W	1	
	R7	D0GB392JA008	3.9K 1/16W	1	
	R9	D0GB183JA008	18K 1/16W	1	
	R11	D0GB103JA008	10K 1/16W	1	
	R12	D0GB104JA008	100K 1/16W	1	
	R13	D0GB104JA008	100K 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R16	D0GD682JA017	6.8K 1/10W	1	
	R17	D0GD682JA017	6.8K 1/10W	1	
	R18	D0GD152JA017	1.5K 1/10W	1	
	R19	D0GD152JA017	1.5K 1/10W	1	
	R20	D0GD183JA017	18K 1/10W	1	
	R21	D0GD183JA017	18K 1/10W	1	
	R22	D0GB102JA008	1K 1/16W	1	
	R23	D0GB225JA008	2.2M 1/16W	1	
	R24	D0GB102JA008	1K 1/16W	1	
	R51	D0GB102JA008	1K 1/16W	1	
	R52	D0GB102JA008	1K 1/16W	1	
	R53	D0GA472JA023	4.7K 1/16W	1	
	R54	D0GA472JA023	4.7K 1/16W	1	
	R55	D0GA221JA023	220 1/16W	1	
	R56	D0GB221JA007	220 1/10W	1	
	R57	D0GA102JA023	1K 1/16W	1	
	R59	D0GB222JA008	2.2K 1/16W	1	
	R61	D0GB473JA008	47K 1/16W	1	
	R62	D0GB473JA008	47K 1/16W	1	
	R64	D0GBR00JA008	0 1/16W	1	
	R101	D0GBR00JA008	0 1/16W	1	
	R102	D0GB394JA008	390K 1/16W	1	
	R103	D0GB123JA008	12K 1/16W	1	
	R104	D0GB222JA008	2.2K 1/16W	1	
	R105	D0GDR00JA017	0 1/10W	1	
	R106	D0GDR00JA017	0 1/10W	1	
	R117	D0GD102JA017	1K 1/10W	1	
	R118	D0GD122JA017	1.2K 1/10W	1	
	R119	ERJ6GEYJ104V	100K 1/8W	1	
	R120	ERJ6GEYJ104V	100K 1/8W	1	
	R121	D0GD392JA017	3.9K 1/10W	1	
	R122	D0GD392JA017	3.9K 1/10W	1	
	R123	D0GD392JA017	3.9K 1/10W	1	
	R124	D0GD392JA017	3.9K 1/10W	1	
	R125	D0GD820JA017	82 1/10W	1	
	R126	D0GD820JA017	82 1/10W	1	
	R137	D0GB221JA008	220 1/16W	1	
	R138	D0GB103JA008	10K 1/16W	1	
	R139	D0GB103JA008	10K 1/16W	1	
	R140	D0GB102JA008	1K 1/16W	1	
	R206	D0GB682JA008	6.8K 1/16W	1	
	R220	D0GB561JA008	560 1/16W	1	
	R221	D0GB472JA008	4.7K 1/16W	1	
	R222	D0GB682JA008	6.8K 1/16W	1	
	R230	D0GB272JA008	2.7K 1/16W	1	
	R253	D0GDR00JA017	0 1/10W	1	
	R254	D0GD332JA017	3.3K 1/10W	1	
	R255	D0GD471JA017	470 1/10W	1	
	R256	ERJ6GEYJ104V	100K 1/8W	1	
	R257	D0GD123JA017	12K 1/10W	1	
	R258	D0GD223JA017	22K 1/10W	1	
	R260	ERJ6GEYJ104V	100K 1/8W	1	
	R261	D0GD820JA017	82 1/10W	1	
	R262	D0GD820JA017	82 1/10W	1	
	R263	D0GD392JA017	3.9K 1/10W	1	
	R264	D0GDR00JA017	0 1/10W	1	
	R267	D0GDR00JA017	0 1/10W	1	
	R272	J0JBC0000030	INDUCTOR	1	
	R273	J0JBC0000030	INDUCTOR	1	
	R274	D0GB223JA008	22K 1/16W	1	
	R275	D0GB223JA008	22K 1/16W	1	
	R300	D0GB221JA008	220 1/16W	1	
	R301	D0GB221JA008	220 1/16W	1	
	R303	D0GB103JA008	10K 1/16W	1	
	R304	D0GB223JA008	22K 1/16W	1	
	R305	D0GB223JA008	22K 1/16W	1	
	R306	D0GB473JA008	47K 1/16W	1	
	R307	D0GB473JA008	47K 1/16W	1	
	R308	D0GB473JA008	47K 1/16W	1	
	R309	D0GB223JA008	22K 1/16W	1	
	R310	D0GB223JA008	22K 1/16W	1	
	R311	D0GB473JA008	47K 1/16W	1	
	R312	D0GB103JA008	10K 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R313	D0GB103JA008	10K 1/16W	1	
	R314	D0GB104JA008	100K 1/16W	1	
	R315	D0GB104JA008	100K 1/16W	1	
	R316	D0GB473JA008	47K 1/16W	1	
	R317	D0GB272JA008	2.7K 1/16W	1	
	R318	D0GB272JA008	2.7K 1/16W	1	
	R319	D0GB152JA008	1.5K 1/16W	1	
	R320	D0GB103JA008	10K 1/16W	1	
	R321	D0GB103JA008	10K 1/16W	1	
	R322	D0GB102JA008	1K 1/16W	1	
	R323	D0GB102JA008	1K 1/16W	1	
	R324	D0GB222JA008	2.2K 1/16W	1	
	R325	D0GB102JA008	1K 1/16W	1	
	R326	D0GB102JA008	1K 1/16W	1	
	R327	D0GB102JA008	1K 1/16W	1	
	R328	D0GB104JA008	100K 1/16W	1	
	R329	D0GB473JA008	47K 1/16W	1	
	R330	D0GB103JA008	10K 1/16W	1	
	R331	D0GB103JA008	10K 1/16W	1	
	R332	D0GB103JA008	10K 1/16W	1	
	R333	D0GB103JA008	10K 1/16W	1	
	R334	D0GB103JA008	10K 1/16W	1	
	R335	D0GB102JA008	1K 1/16W	1	
	R337	D0GB101JA008	100 1/16W	1	
	R338	D0GB222JA008	2.2K 1/16W	1	
	R339	D0GB101JA008	100 1/16W	1	
	R340	D0GB472JA008	4.7K 1/16W	1	
	R341	D0GB472JA008	4.7K 1/16W	1	
	R392	D0GB104JA008	100K 1/16W	1	
	R393	D0GB472JA008	4.7K 1/16W	1	
	R394	D0GB473JA008	47K 1/16W	1	
	R406	D0GB682JA008	6.8K 1/16W	1	
	R420	D0GB561JA008	560 1/16W	1	
	R421	D0GB472JA008	4.7K 1/16W	1	
	R422	D0GB682JA008	6.8K 1/16W	1	
	R453	D0GDR00JA017	0 1/10W	1	
	R454	D0GD332JA017	3.3K 1/10W	1	
	R455	D0GD471JA017	470 1/10W	1	
	R456	ERJ6GEYJ104V	100K 1/8W	1	
	R457	D0GD123JA017	12K 1/10W	1	
	R458	D0GD223JA017	22K 1/10W	1	
	R460	ERJ6GEYJ104V	100K 1/8W	1	
	R461	D0GD820JA017	82 1/10W	1	
	R462	D0GD820JA017	82 1/10W	1	
	R463	D0GD392JA017	3.9K 1/10W	1	
	R464	D0GDR00JA017	0 1/10W	1	
	R467	D0GDR00JA017	0 1/10W	1	
	R512	D0GBR00JA008	0 1/16W	1	
	R518	D0GB122JA008	1.2K 1/16W	1	
	R519	D0GB101JA008	100 1/16W	1	
	R525	D0GD823JA017	82K 1/10W	1	
	R526	D0GD272JA017	2.7K 1/10W	1	
	R527	ERJ6GEYJ273V	27K 1/8W	1	
	R551	D0GBR00JA008	0 1/16W	1	
	R552	D0GB334JA008	330K 1/16W	1	
	R553	D0GB472JA008	4.7K 1/16W	1	
	R554	D0GB103JA008	10K 1/16W	1	
	R557	D0GB562JA008	5.6K 1/16W	1	
	R558	D0GB103JA008	10K 1/16W	1	
	R559	D0AF270JA039	27 1/2W	1	
	R560	D0GB563JA008	56K 1/16W	1	
	R561	D0GB101JA008	100 1/16W	1	
	R562	D0GB224JA008	220K 1/16W	1	
	R563	D0GB824JA008	820K 1/16W	1	
	R564	D0GB563JA008	56K 1/16W	1	
	R566	D0GB683JA008	68K 1/16W	1	
	R567	D0GB561JA008	560 1/16W	1	
	R568	D0GB473JA008	47K 1/16W	1	
	R569	D0GB273JA008	27K 1/16W	1	
	R584	D0GB104JA008	100K 1/16W	1	
	R585	D0GB472JA008	4.7K 1/16W	1	
	R586	D0GB473JA008	47K 1/16W	1	
	R602	D0GBR00JA008	0 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R801	D0GBR00JA008	0 1/16W	1	
	R802	D0GB224JA008	220K 1/16W	1	
	R803	D0GB102JA008	1K 1/16W	1	
	R805	D0GB472JA008	4.7K 1/16W	1	
	R807	D0GB101JA008	100 1/16W	1	
	R808	D0GB101JA008	100 1/16W	1	
	R809	D0GB101JA008	100 1/16W	1	
	R810	D0GB562JA008	5.6K 1/16W	1	
	R811	D0GB562JA008	5.6K 1/16W	1	
	R812	D0GB102JA008	1K 1/16W	1	
	R813	D0GB472JA008	4.7K 1/16W	1	
	R814	D0GB104JA008	100K 1/16W	1	
	R816	D0GB103JA008	10K 1/16W	1	
	R819	D0GB102JA008	1K 1/16W	1	
	R820	D0GB103JA008	10K 1/16W	1	
	R821	D0GB102JA008	1K 1/16W	1	
	R822	D0GB102JA008	1K 1/16W	1	
	R823	D0GB102JA008	1K 1/16W	1	
	R824	D0GB102JA008	1K 1/16W	1	
	R826	D0GB104JA008	100K 1/16W	1	
	R827	D0GB102JA008	1K 1/16W	1	
	R828	D0GB101JA008	100 1/16W	1	
	R829	D0GB101JA008	100 1/16W	1	
	R830	D0GB101JA008	100 1/16W	1	
	R831	D0GB102JA008	1K 1/16W	1	
	R832	D0GB104JA008	100K 1/16W	1	
	R833	D0GB101JA008	100 1/16W	1	
	R834	D0GB102JA008	1K 1/16W	1	
	R835	D0GB102JA008	1K 1/16W	1	
	R836	D0GB103JA008	10K 1/16W	1	
	R837	D0GB103JA008	10K 1/16W	1	
	R838	D0GB103JA008	10K 1/16W	1	
	R839	D0GB223JA008	22K 1/16W	1	
	R840	D0GB223JA008	22K 1/16W	1	
	R841	D0GB101JA008	100 1/16W	1	
	R842	D0GB101JA008	100 1/16W	1	
	R843	D0GB101JA008	100 1/16W	1	
	R844	D0GB101JA008	100 1/16W	1	
	R845	D0GB472JA008	4.7K 1/16W	1	
	R846	D0GB472JA008	4.7K 1/16W	1	
	R847	D0GB101JA008	100 1/16W	1	
	R849	D0GB102JA008	1K 1/16W	1	
	R850	D0GB104JA008	100K 1/16W	1	
	R851	D0GB101JA008	100 1/16W	1	
	R852	D0GB101JA008	100 1/16W	1	
	R853	D0GB101JA008	100 1/16W	1	
	R854	D0GB101JA008	100 1/16W	1	
	R855	D0GB101JA008	100 1/16W	1	
	R856	D0GB564JA008	560K 1/16W	1	
	R857	D0GB102JA008	1K 1/16W	1	
	R858	D0GB474JA008	470K 1/16W	1	
	R860	D0GB102JA008	1K 1/16W	1	
	R861	D0GB102JA008	1K 1/16W	1	
	R863	D0GB102JA008	1K 1/16W	1	
	R867	D0GB101JA008	100 1/16W	1	
	R870	D0GB101JA008	100 1/16W	1	
	R871	D0GB102JA008	1K 1/16W	1	
	R872	D0GB472JA008	4.7K 1/16W	1	
	R873	D0GB473JA008	47K 1/16W	1	
	R874	D0GB821JA008	820 1/16W	1	
	R875	D0GB103JA008	10K 1/16W	1	
	R876	D0GB823JA008	82K 1/16W	1	
	R877	D0GB103JA008	10K 1/16W	1	
	R880	D0GB101JA008	100 1/16W	1	
	R881	D0GB334JA008	330K 1/16W	1	
	R882	D0GB224JA008	220K 1/16W	1	
	R883	D0GB101JA008	100 1/16W	1	
	R884	D0GB101JA008	100 1/16W	1	
	R885	D0GB104JA008	100K 1/16W	1	
	R886	D0GB104JA008	100K 1/16W	1	
	R887	D0GB101JA008	100 1/16W	1	
	R888	D0GB104JA008	100K 1/16W	1	
	R889	D0GB123JA008	12K 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description		Qty	Remarks
	R890	D0GB101JA008	100	1/16W	1	
	R892	D0GB101JA008	100	1/16W	1	
	R893	D0GB102JA008	1K	1/16W	1	
	R894	D0GB102JA008	1K	1/16W	1	
	R895	D0GB122JA008	1.2K	1/16W	1	
	R896	D0GB151JA008	150	1/16W	1	
	R897	D0GB472JA008	4.7K	1/16W	1	
	R898	D0GB103JA008	10K	1/16W	1	
	R899	D0GB103JA008	10K	1/16W	1	
	R901	D0GB101JA008	100	1/16W	1	
	R901	D0GB102JA008	1K	1/16W	1	
	R902	D0GB102JA008	1K	1/16W	1	
	R903	D0GBR00JA008	0	1/16W	1	
	R904	D0GBR00JA008	0	1/16W	1	
	R906	D0GBR00JA008	0	1/16W	1	
	R907	D0GDR00JA017	0	1/10W	1	
	R910	D0GB331JA008	330	1/16W	1	
	R911	D0GB122JA008	1.2K	1/16W	1	
	R912	D0GB152JA008	1.5K	1/16W	1	
	R913	D0GB222JA008	2.2K	1/16W	1	
	R914	D0GB332JA008	3.3K	1/16W	1	
	R914	D0GBR00JA008	0	1/16W	1	
	R915	D0GB472JA008	4.7K	1/16W	1	
	R916	ERJ6GEYJ391V	390	1/8W	1	
	R917	D0GD331JA017	330	1/10W	1	
	R918	ERJ6GEYJ391V	390	1/8W	1	
	R919	D0GD331JA017	330	1/10W	1	
	R920	D0GB470JA008	47	1/16W	1	
	R921	D0GB122JA008	1.2K	1/16W	1	
	R922	D0GB152JA008	1.5K	1/16W	1	
	R923	D0GB222JA008	2.2K	1/16W	1	
	R924	D0GB332JA008	3.3K	1/16W	1	
	R925	D0GB472JA008	4.7K	1/16W	1	
	R926	D0GB682JA008	6.8K	1/16W	1	
	R927	D0GB123JA008	12K	1/16W	1	
	R928	D0GB271JA008	270	1/16W	1	
	R949	D0GB471JA008	470	1/16W	1	
	R950	D0GB471JA008	470	1/16W	1	
	R950	D0GBR00JA008	0	1/16W	1	
	R951	D0GBR00JA008	0	1/16W	1	
	R952	D0GB240JA008	24	1/16W	1	
	R952	D0GBR00JA008	0	1/16W	1	
	R953	D0GB101JA008	100	1/16W	1	
	R953	D0GB240JA008	24	1/16W	1	
	R954	D0GB153JA008	15K	1/16W	1	
	R955	D0GB101JA008	100	1/16W	1	
	R955	D0GB153JA008	15K	1/16W	1	
	R957	D0GB104JA008	100K	1/16W	1	
	R957	D0GB222JA008	2.2K	1/16W	1	
	R958	D0GB101JA008	100	1/16W	1	
	R958	D0GB104JA008	100K	1/16W	1	
	R964	D0GB102JA008	1K	1/16W	1	
	R971	D0GB102JA008	1K	1/16W	1	
	R972	D0GB102JA008	1K	1/16W	1	
	R978	D0GB472JA008	4.7K	1/16W	1	
	R979	D0GB472JA008	4.7K	1/16W	1	
	R980	D0GB472JA008	4.7K	1/16W	1	
	R1000	D0GB472JA008	4.7K	1/16W	1	
	R1001	D0GA221JA023	220	1/16W	1	
	R1001	D0GB473JA008	47K	1/16W	1	
	R1002	D0GA221JA023	220	1/16W	1	
	R1002	D0GB470JA008	47	1/16W	1	
	R1003	D0GA104JA023	100K	1/16W	1	
	R1003	D0GBR00JA008	0	1/16W	1	
	R1004	D0GA104JA023	100K	1/16W	1	
	R1005	D0GA753Z0001	75K	1/16W	1	
	R1006	D0GA753Z0001	75K	1/16W	1	
	R1007	D0GA513Z0002	51K	1/16W	1	
	R1008	D0GA513Z0002	51K	1/16W	1	
	R1009	ERJ2GEJ151X	150	1/16W	1	
	R1010	ERJ2GEJ151X	150	1/16W	1	
	R1011	J0JFC0000006	INDUCTOR		1	
	R1012	D0GBR00JA008	0	1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description		Qty	Remarks
	R1013	D0GA102JA023	1K	1/16W	1	
	R1014	ERJ2GE0R00X	0	1/16W	1	
	R1015	D0GBR00JA008	0	1/16W	1	
	R1025	D0GB2R7JA008	2.7	1/16W	1	
	R1026	D0GB2R7JA008	2.7	1/16W	1	
	R2827	D0GB104JA008	100K	1/16W	1	
	R2828	D0GB104JA008	100K	1/16W	1	
	R2829	D0GB104JA008	100K	1/16W	1	
	R2830	D0GB104JA008	100K	1/16W	1	
	R2831	D0GB104JA008	100K	1/16W	1	
	R2832	D0GB103JA008	10K	1/16W	1	
	R2833	D0GB103JA008	10K	1/16W	1	
	R2834	D0GB394JA008	390K	1/16W	1	
	R2835	D0GB103JA008	10K	1/16W	1	
	R2836	D0GB101JA008	100	1/16W	1	
	R2837	D0GB103JA008	10K	1/16W	1	
	R2838	D0GB472JA008	4.7K	1/16W	1	
	R2839	D0GB104JA008	100K	1/16W	1	
	R2840	D0GB103JA008	10K	1/16W	1	
	R2841	D0GB682JA008	6.8K	1/16W	1	
	R2842	D0GB122JA008	1.2K	1/16W	1	
	R2843	D0GB102JA008	1K	1/16W	1	
	R2910	D0GD473JA017	47K	1/10W	1	
	R2911	D0GD102JA017	1K	1/10W	1	
	R2912	D0GDR00JA017	0	1/10W	1	
	R2913	D0GD822JA017	8.2K	1/10W	1	
	R5600	D0GD101JA017	100	1/10W	1	
	R5601	D0GD152JA017	1.5K	1/10W	1	
	R5603	D0GD272JA017	2.7K	1/10W	1	
	R5606	D0GB153JA008	15K	1/16W	1	
	R5607	D0GD152JA017	1.5K	1/10W	1	
	R5608	ERG2SJ680P	68	2W	1	
	R5609	ERG2SJ680P	68	2W	1	
	R5700	ERJ8GEYJ155V	1.5M	1/4W	1	
	R5701	ERJ8GEYJ155V	1.5M	1/4W	1	
	R5702	ERJ8GEYJ333V	33K	1/4W	1	
	R5703	ERJ8GEYJ333V	33K	1/4W	1	
	R5704	ERJ8GEYJ333V	33K	1/4W	1	
	R5705	ERJ8GEYJ333V	33K	1/4W	1	
	R5710	ERJ8GEYJ155V	1.5M	1/4W	1	
	R5720	D0GF121JA017	120	1/10W	1	
	R5722	D0GD272JA017	2.7K	1/10W	1	
	R5723	ERJ8GEYJ153V	15K	1/4W	1	
	R5724	ERJ8GEYJ183V	18K	1/4W	1	
	R5725	D0GD272JA017	2.7K	1/10W	1	
	R5726	ERX2SJR22P	0.22	2W	1	
	R5728	D0GF121JA017	120	1/10W	1	
	R5730	D0GD102JA017	1K	1/10W	1	
	R5732	D0GB101JA008	100	1/16W	1	
	R5786	ERJ1TYJ104U	100K	1W	1	
	R5795	D0GD474JA017	470K	1/10W	1	
	R5798	D0GB220JA008	22	1/16W	1	
	R5800	D0GD272JA017	2.7K	1/10W	1	
	R5801	ERJ6GEYJ182V	1.8K	1/8W	1	
	R5802	D0GD392JA017	3.9K	1/10W	1	
	R5803	D0GD123JA017	12K	1/10W	1	
	R5804	D0GD473JA017	47K	1/10W	1	
	R5805	D0GD220JA017	22	1/10W	1	
	R5806	D0GD103JA017	10K	1/10W	1	
	R5807	D0GD122JA017	1.2K	1/10W	1	
	R5808	D0GD102JA017	1K	1/10W	1	
	R5842	D0GD101JA017	100	1/10W	1	
	R5898	D0GD472JA017	4.7K	1/10W	1	
	R5899	D0GD473JA017	47K	1/10W	1	
	R6804	D0GB104JA008	100K	1/16W	1	
	R6805	D0GB103JA008	10K	1/16W	1	
	R6806	D0GB102JA008	1K	1/16W	1	
	R6807	D0GB102JA008	1K	1/16W	1	
	R6808	D0GB102JA008	1K	1/16W	1	
	R7110	D0GBR00JA008	0	1/16W	1	
	R7111	D0GB103JA008	10K	1/16W	1	
	R7211	D0GB823JA008	82K	1/16W	1	
	R7212	D0GB821JA008	820	1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R7214	D0GB471JA008	470 1/16W	1	
	R7217	D0GB102JA008	1K 1/16W	1	
	R7218	D0GB102JA008	1K 1/16W	1	
	R7220	D0GB105JA008	1M 1/16W	1	
	R7221	D0GB101JA008	100 1/16W	1	
	R7253	D0GB100JA008	10 1/16W	1	
	R7254	D0GB102JA008	1K 1/16W	1	
	R7315	D0GB332JA008	3.3K 1/16W	1	
	R7323	D0GB332JA008	3.3K 1/16W	1	
	R7325	D0GB331JA008	330 1/16W	1	
	R7327	D0GB102JA008	1K 1/16W	1	
	R7328	D0GB103JA008	10K 1/16W	1	
	R7329	D0GB102JA008	1K 1/16W	1	
	R7330	D0GB562JA008	5.6K 1/16W	1	
	R7331	D0GB223JA008	22K 1/16W	1	
	R7332	D0GB102JA008	1K 1/16W	1	
	R7335	D0GB101JA008	100 1/16W	1	
	R7336	D0GB100JA008	10 1/16W	1	
	R7339	D0GB102JA008	1K 1/16W	1	
	R7349	D0GB183JA008	18K 1/16W	1	
	R7401	D0GBR00JA008	0 1/16W	1	
	R7601	D0GB4R7JA008	4.7 1/16W	1	
	R7650	D0GB5R6JA008	5.6 1/16W	1	
			CAPACITORS		
	C1	F1K1C1060001	10uF 16V	1	
	C2	F1H1H104A783	0.1uF 50V	1	
	C3	F1H1H104A783	0.1uF 50V	1	
	C4	F1H1C105A118	1uF 16V	1	
	C5	F2A1V330A379	33uF 35V	1	
	C6	F1H1H104A783	0.1uF 50V	1	
	C7	F1J1E105A171	1uF 25V	1	
	C8	F1J1E105A171	1uF 25V	1	
	C9	F2A1V330A379	33uF 35V	1	
	C10	F2A1V330A379	33uF 35V	1	
	C11	F1K1H105A138	1uF 50V	1	
	C12	F1K1H105A138	1uF 50V	1	
	C13	ECQV1H104JL3	0.1uF 50V	1	
	C16	ECQV1H104JL3	0.1uF 50V	1	
	C17	F1K1H105A138	1uF 50V	1	
	C18	F1K1H105A138	1uF 50V	1	
	C21	F1J1E105A171	1uF 25V	1	
	C22	F1J1E105A171	1uF 25V	1	
	C23	F1K1E335A029	3.3uF 25V	1	
	C25	ECQV1H104JL3	0.1uF 50V	1	
	C26	ECQV1H104JL3	0.1uF 50V	1	
	C28	ECQV1H334JL3	0.33uF 50V	1	
	C29	ECQV1H334JL3	0.33uF 50V	1	
	C30	F1H1H472A013	4700pF 50V	1	
	C31	F1H1H472A013	4700pF 50V	1	
	C34	F1J1E4750002	4.7uF 25V	1	
	C35	F1J1E4750002	4.7uF 25V	1	
	C38	F1H1E334A068	0.33uF 25V	1	
	C39	F1H1E334A068	0.33uF 25V	1	
	C40	F1H1H102A219	1000pF 50V	1	
	C41	F1H1C224A074	0.22uF 16V	1	
	C44	F1H1H103A219	0.01uF 50V	1	
	C45	F1H1H103A219	0.01uF 50V	1	
	C51	F1H1H102A219	1000pF 50V	1	
	C52	F1H1A474A025	0.47uF 10V	1	
	C53	F1H1H103A219	0.01uF 50V	1	
	C54	F1H1H103A219	0.01uF 50V	1	
	C55	F1H1H103A219	0.01uF 50V	1	
	C56	F1H1H103A219	0.01uF 50V	1	
	C57	F1H1H120A230	12pF 50V	1	
	C58	F1H1H120A230	12pF 50V	1	
	C59	F1H1A105A025	1uF 10V	1	
	C60	F1H1A105A025	1uF 10V	1	
	C61	F1G1C104A077	0.1uF 16V	1	
	C62	F1G1C104A077	0.1uF 16V	1	
	C102	F1H1H103A219	0.01uF 50V	1	
	C103	F3F0J4760004	47uF 6.3V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C104	F1H1C823A001	0.082uF 16V	1	
	C105	F1H1C823A001	0.082uF 16V	1	
	C107	D0GDR00JA017	0 1/10W	1	
	C108	F1H1E474A068	0.47uF 25V	1	
	C114	F3H1C107A068	100uF 16V	1	
	C115	F1H1H331A792	330pF 50V	1	
	C116	F1H1H331A792	330pF 50V	1	
	C117	F1H1H103A219	0.01uF 50V	1	
	C118	F3H1C107A068	100uF 16V	1	
	C122	F2A1H4R7A234	4.7uF 50V	1	
	C204	F1H1A105A004	1uF 10V	1	
	C206	F1H1A5640001	0.56uF 10V	1	
	C207	F1H1H221A748	220pF 50V	1	
	C208	F1H1A105A004	1uF 10V	1	
	C212	F1H1A105A004	1uF 10V	1	
	C213	F1H0J106A009	10uF 6.3V	1	
	C214	F1H1A105A004	1uF 10V	1	
	C219	F1H1E474A068	0.47uF 25V	1	
	C220	F1H1A5640001	0.56uF 10V	1	
	C221	F1H1H332A013	3300pF 50V	1	
	C222	F1H1H103A219	0.01uF 50V	1	
	C223	F1H1H103A219	0.01uF 50V	1	
	C224	F1H1H473A748	0.047uF 50V	1	
	C225	F1H1C154A002	0.15uF 16V	1	
	C226	F1H1H332A013	3300pF 50V	1	
	C230	F1H1A105A004	1uF 10V	1	
	C231	F1H1A105A004	1uF 10V	1	
	C232	F1H1A105A004	1uF 10V	1	
	C241	F1J0J475A008	4.7uF 6.3V	1	
	C255	F1H1C105A118	1uF 16V	1	
	C256	F1H1H393A962	0.039uF 50V	1	
	C257	F1H1H393A962	0.039uF 50V	1	
	C258	F1H1A105A004	1uF 10V	1	
	C259	F1H1H101A230	100pF 50V	1	
	C260	F1H1H560A230	56pF 50V	1	
	C262	F1H1C224A074	0.22uF 16V	1	
	C263	F1K1A1060017	10uF 10V	1	
	C264	F1H1A5640001	0.56uF 10V	1	
	C265	F1H1H103A219	0.01uF 50V	1	
	C266	F1J1A475A039	4.7uF 10V	1	
	C269	F1H1C105A118	1uF 16V	1	
	C270	F1H1C105A118	1uF 16V	1	
	C271	F1H1H221A748	220pF 50V	1	
	C272	F1H1H221A748	220pF 50V	1	
	C301	F1H1H102A219	1000pF 50V	1	
	C302	F1H1H101A230	100pF 50V	1	
	C303	F1H1H102A219	1000pF 50V	1	
	C304	F1H1H102A219	1000pF 50V	1	
	C305	F1H1A105A004	1uF 10V	1	
	C306	F1H1C104A042	0.1uF 16V	1	
	C307	F1H1H101A230	100pF 50V	1	
	C308	F1H1H100A017	10pF 50V	1	
	C309	D0GBR00JA008	0 1/16W	1	
	C310	F1H1C105A118	1uF 16V	1	
	C311	F1H1H101A230	100pF 50V	1	
	C312	F1H1H100A017	10pF 50V	1	
	C313	D0GBR00JA008	0 1/16W	1	
	C314	F1K1C1060001	10uF 16V	1	
	C315	F1K1C1060001	10uF 16V	1	
	C316	D0GBR00JA008	0 1/16W	1	
	C320	F1H1H222A219	2200pF 50V	1	
	C321	F1H1A105A004	1uF 10V	1	
	C322	F1H1H104A783	0.1uF 50V	1	
	C323	F3F0J226A057	22uF 6.3V	1	
	C324	F1H1A105A004	1uF 10V	1	
	C325	F1H1H221A748	220pF 50V	1	
	C326	F1H1H391A013	390pF 50V	1	
	C327	F1H1A105A004	1uF 10V	1	
	C328	F1H1A105A004	1uF 10V	1	
	C329	F1H1H470A004	47pF 50V	1	
	C330	F1H1H122A013	1200pF 50V	1	
	C331	F1H1H104A783	0.1uF 50V	1	
	C332	F2A1C101A234	100uF 16V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C333	F1H1H104A783	0.1uF 50V	1	
	C339	F1H1H103A219	0.01uF 50V	1	
	C350	F1H1H103A219	0.01uF 50V	1	
	C404	F1H1A105A004	1uF 10V	1	
	C406	F1H1A5640001	0.56uF 10V	1	
	C407	F1H1H221A748	220pF 50V	1	
	C408	F1H1A105A004	1uF 10V	1	
	C412	F1H1A105A004	1uF 10V	1	
	C419	F1H1E474A068	0.47uF 25V	1	
	C420	F1H1A5640001	0.56uF 10V	1	
	C421	F1H1H332A013	3300pF 50V	1	
	C422	F1H1H103A219	0.01uF 50V	1	
	C423	F1H1H103A219	0.01uF 50V	1	
	C424	F1H1H473A748	0.047uF 50V	1	
	C425	F1H1C154A002	0.15uF 16V	1	
	C441	F1J0J475A008	4.7uF 6.3V	1	
	C455	F1H1C105A118	1uF 16V	1	
	C456	F1H1H393A962	0.039uF 50V	1	
	C457	F1H1H393A962	0.039uF 50V	1	
	C458	F1H1A105A004	1uF 10V	1	
	C459	F1H1H101A230	100pF 50V	1	
	C460	F1H1H560A230	56pF 50V	1	
	C462	F1H1C224A074	0.22uF 16V	1	
	C463	F1K1A1060017	10uF 10V	1	
	C464	F1H1A5640001	0.56uF 10V	1	
	C465	F1H1H103A219	0.01uF 50V	1	
	C466	F1J1A475A039	4.7uF 10V	1	
	C502	F2A1C1020067	1000uF 16V	1	
	C507	F1H1E474A068	0.47uF 25V	1	
	C509	F1H1E474A068	0.47uF 25V	1	
	C510	F1K1H105A138	1uF 50V	1	
	C511	F2A0J101A245	100uF 6.3V	1	
	C513	F1K1A1060017	10uF 10V	1	
	C515	F2A1C100A234	10uF 16V	1	
	C516	F1H1C105A118	1uF 16V	1	
	C521	F2A1A470A204	47uF 10V	1	
	C522	F1H1H102A219	1000pF 50V	1	
	C523	F1H1H102A219	1000pF 50V	1	
	C524	F2A1A470A204	47uF 10V	1	
	C526	F2A1C100A234	10uF 16V	1	
	C552	F2A1H4R7A234	4.7uF 50V	1	
	C553	F2A1C470A016	47uF 16V	1	
	C555	F1H1C104A042	0.1uF 16V	1	
	C556	F2A0J221A211	220uF 6.3V	1	
	C557	F2A0J101A245	100uF 6.3V	1	
	C558	D0GBR00JA008	0 1/16W	1	
	C559	F1K1A1060017	10uF 10V	1	
	C560	F1H1C105A118	1uF 16V	1	
	C601	F2A0J102A130	1000uF 6.3V	1	
	C602	F2A1A101A204	100uF 10V	1	
	C605	F2A1A221A149	220uF 10V	1	
	C609	F2A0J102A130	1000uF 6.3V	1	
	C650	F2A0J221A211	220uF 6.3V	1	
	C805	F1H1H220A004	22pF 50V	1	
	C806	F1H1H220A004	22pF 50V	1	
	C807	F1H1H102A219	1000pF 50V	1	
	C808	F1H1C104A042	0.1uF 16V	1	
	C810	F1H1H221A748	220pF 50V	1	
	C812	F1H1H221A748	220pF 50V	1	
	C813	F1H1H102A219	1000pF 50V	1	
	C814	F1H1H102A219	1000pF 50V	1	
	C815	F1H1H681A013	680pF 50V	1	
	C816	F1H1H681A013	680pF 50V	1	
	C817	F1H1H102A219	1000pF 50V	1	
	C818	F1H1H101A230	100pF 50V	1	
	C819	F1H1H101A230	100pF 50V	1	
	C820	F1H1C104A042	0.1uF 16V	1	
	C821	F1H1H101A230	100pF 50V	1	
	C825	F1H1A105A004	1uF 10V	1	
	C827	F1K1C1060001	10uF 16V	1	
	C828	F1K1A1060017	10uF 10V	1	
	C830	F1H1H331A219	330pF 50V	1	
	C831	F1H1H331A219	330pF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C832	F1H1H331A219	330pF 50V	1	
	C833	F1H1H223A219	0.022uF 50V	1	
	C853	F1K1A1060017	10uF 10V	1	
	C871	F1H1H102A219	1000pF 50V	1	
	C872	F1H1H102A219	1000pF 50V	1	
	C873	F1H1H102A219	1000pF 50V	1	
	C874	F1H1H102A219	1000pF 50V	1	
	C875	F1H1H102A219	1000pF 50V	1	
	C876	F1H1H102A219	1000pF 50V	1	
	C896	F1H1H104A783	0.1uF 50V	1	
	C901	F1H1C104A042	0.1uF 16V	1	
	C902	F1H1C104A042	0.1uF 16V	1	
	C903	F1H1C104A042	0.1uF 16V	1	
	C904	F2A1C100A234	10uF 16V	1	
	C905	F1H1C104A042	0.1uF 16V	1	
	C906	F2A1C100A234	10uF 16V	1	
	C907	F1H1H180A230	18pF 50V	1	
	C908	F1H1H220A004	22pF 50V	1	
	C911	F1H1C104A042	0.1uF 16V	1	
	C912	F1H1C104A042	0.1uF 16V	1	
	C913	F1H1C104A042	0.1uF 16V	1	
	C914	F1H1C104A042	0.1uF 16V	1	
	C915	F2A1C470A234	47uF 16V	1	
	C922	F1H1H102A219	1000pF 50V	1	
	C931	F2A1C100A234	10uF 16V	1	
	C951	F1H1C104A042	0.1uF 16V	1	
	C951	F1H1H473A748	0.047uF 50V	1	
	C952	F1H1C104A042	0.1uF 16V	1	
	C952	F1H1H473A748	0.047uF 50V	1	
	C953	F1H1H472A013	4700pF 50V	1	
	C953	F2A0J101A245	100uF 6.3V	1	
	C954	F1H1C104A042	0.1uF 16V	1	
	C955	F1H1H472A013	4700pF 50V	1	
	C956	F1H1C104A042	0.1uF 16V	1	
	C957	F1H1H560A230	56pF 50V	1	
	C958	F1H1H560A230	56pF 50V	1	
	C959	F1H1H103A219	0.01uF 50V	1	
	C960	F1H1C104A042	0.1uF 16V	1	
	C961	F1H1H101A230	100pF 50V	1	
	C962	F1H1H101A230	100pF 50V	1	
	C963	F1H1H101A230	100pF 50V	1	
	C964	F1H1C104A042	0.1uF 16V	1	
	C1000	F2A1C330A234	33uF 16V	1	
	C1001	F1H1H392A013	3900pF 50V	1	
	C1002	F1G1C104A083	0.1uF 16V	1	
	C1002	F2A1V330A379	33uF 35V	1	
	C1003	F1G1C104A083	0.1uF 16V	1	
	C1003	F2A1C101A155	100uF 16V	1	
	C1004	F1G1C104A083	0.1uF 16V	1	
	C2821	F1H1A105A025	1uF 10V	1	
	C2822	F1J0J226A014	22uF 6.3V	1	
	C2823	F1H1H470A004	47pF 50V	1	
	C2824	F1H1H470A004	47pF 50V	1	
	C2825	F1H1A105A025	1uF 10V	1	
	C2826	F1H1H104A783	0.1uF 50V	1	
	C2827	F1H1A105A025	1uF 10V	1	
	C2828	F1J1H104A459	0.1uF 50V	1	
	C2911	F1H1H103A219	0.01uF 50V	1	
	C2913	F2A1C681B473	680uF 16V	1	
	C2914	F1H1H103A219	0.01uF 50V	1	
	C5600	F1H1E105A116	1uF 25V	1	
⚠	C5700	F1BAF1020020	1000pF	1	
⚠	C5701	ECQU2A334MLA	0.33uF	1	
⚠	C5702	ECQU2A104MLC	0.1uF	1	
⚠	C5706	F1BAF1020020	1000pF	1	
⚠	C5708	F1BAF1020020	1000pF	1	
⚠	C5709	F1BAF1020020	1000pF	1	
	C5712	F2A2D3310012	330uF 200V	1	
	C5713	ECQE6103KF	0.01uF 630V	1	
	C5721	F1H1H2210001	220pF 50V	1	
	C5722	F1H1H472A219	4700pF 50V	1	
	C5723	F1H1H471A219	470pF 50V	1	
	C5725	F1H1H223A219	0.022uF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C5726	F2A1V220A184	22uF 35V	1	
	C5727	F1H1H472A219	4700pF 50V	1	
	C5728	F1H1H223A219	0.022uF 50V	1	
	C5730	F2A1H1R0A234	1.0uF 50V	1	
	C5737	ECWH10152JV	1500pF 1000V	1	
	C5790	F1K2J2220002	2200pF 630V	1	
	C5795	F1H1H102A219	1000pF 50V	1	
	C5796	F1J1H104A717	0.1uF 50V	1	
	C5798	F2A1H220A234	22uF 50V	1	
	C5799	F2B2E3300001	33uF 250V	1	
	C5800	D0GDR00JA017	0 1/10W	1	
	C5801	F2A0J470A167	47uF 6.3V	1	
	C5808	F2A1E1020049	1000uF 25V	1	
	C5818	F1H1H104A013	0.1uF 50V	1	
	C5838	F1J2E1030004	0.01uF 250V	1	
	C5839	F1J2E1030004	0.01uF 250V	1	
	C5843	F1J0J106A014	10uF 6.3V	1	
	C5899	F2A1A102A206	1000uF 10V	1	
	C6801	F2A1V220A184	22uF 35V	1	
	C6805	F1H1H102A219	1000pF 50V	1	
	C6806	F1H1H102A219	1000pF 50V	1	
	C6807	F1H1H102A219	1000pF 50V	1	
	C6808	F1H1H102A219	1000pF 50V	1	
	C6809	F1H1H102A219	1000pF 50V	1	
	C6810	F1H1H102A219	1000pF 50V	1	
	C6811	F1H1H102A219	1000pF 50V	1	
	C6814	F1H1H102A219	1000pF 50V	1	
	C6815	F1H1H102A219	1000pF 50V	1	
	C6816	F1H1H102A219	1000pF 50V	1	
	C6819	F1H1H102A219	1000pF 50V	1	
	C6820	F1H1E474A068	0.47uF 25V	1	
	C6821	F1H1H221A748	220pF 50V	1	
	C6822	F1H1H221A748	220pF 50V	1	
	C6823	F1H1H221A748	220pF 50V	1	
	C6824	F1H1E474A068	0.47uF 25V	1	
	C6825	ECA1AAK220XB	22uF 10V	1	
	C6826	F2A1V220A184	22uF 35V	1	
	C6827	F1H1H104A783	0.1uF 50V	1	
	C6828	F2A1V220A184	22uF 35V	1	
	C6829	F2A1V220A184	22uF 35V	1	
	C6830	F1H1H472A219	4700pF 50V	1	
	C6831	F1H1H472A219	4700pF 50V	1	
	C6832	F1H1H472A219	4700pF 50V	1	
	C7102	F1H1A474A025	0.47uF 10V	1	
	C7107	F1H1H223A219	0.022uF 50V	1	
	C7142	F1H1H332A013	3300pF 50V	1	
	C7154	F1H1C104A042	0.1uF 16V	1	
	C7155	F1H1C104A042	0.1uF 16V	1	
	C7161	F1H1C104A042	0.1uF 16V	1	
	C7164	F1J1A106A076	10uF 10V	1	
	C7165	F1J1A106A076	10uF 10V	1	
	C7166	F1H1H103A219	0.01uF 50V	1	
	C7203	F2A0J221A200	220uF 6.3V	1	
	C7204	F1H1C104A042	0.1uF 16V	1	
	C7216	F1H1H681A013	680pF 50V	1	
	C7217	F1H1C104A042	0.1uF 16V	1	
	C7218	F1H1C823A001	0.082uF 16V	1	
	C7221	F1H1H150A971	15pF 50V	1	
	C7222	F1H1H150A971	15pF 50V	1	
	C7223	F2A1H4R70037	4.7uF 50V	1	
	C7225	F1H1H102A219	1000pF 50V	1	
	C7226	F1H1H102A219	1000pF 50V	1	
	C7227	ECA1HAK010XI	1uF 50V	1	
	C7228	ECA1HAK010XI	1uF 50V	1	
	C7230	F1H1C104A042	0.1uF 16V	1	
	C7231	F2A0J221A200	220uF 6.3V	1	
	C7232	F2A0J221A200	220uF 6.3V	1	
	C7233	F1H1C104A008	0.1uF 16V	1	
	C7234	F1H1C104A042	0.1uF 16V	1	
	C7235	F2A1C100A133	10uF 16V	1	
	C7241	F1H1H102A219	1000pF 50V	1	
	C7243	F1H1C104A008	0.1uF 16V	1	
	C7244	F1H1C153A001	0.015uF 16V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C7253	F1H1H471A219	470pF 50V	1	
	C7263	F1H1C104A042	0.1uF 16V	1	
	C7264	F1H1C104A042	0.1uF 16V	1	
	C7315	F1H1A474A025	0.47uF 10V	1	
	C7334	ECEA1AKA221I	220uF 10V	1	
	C7335	F1H1C104A008	0.1uF 16V	1	
	C7338	F1H1C563A055	0.056uF 16V	1	
	C7339	F1H1C183A001	0.018uF 16V	1	
	C7352	F1H1C183A001	0.018uF 16V	1	
	C7401	F1H1C104A042	0.1uF 16V	1	
	C7402	F1H1C104A042	0.1uF 16V	1	
	C7601	ECEA0JKA330I	33uF 6.3V	1	
	C7613	F1H1C104A042	0.1uF 16V	1	
	C7614	F2A0J101A198	100uF 6.3V	1	
	C7626	F1H1C104A042	0.1uF 16V	1	
	C7670	F1H1C104A042	0.1uF 16V	1	

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