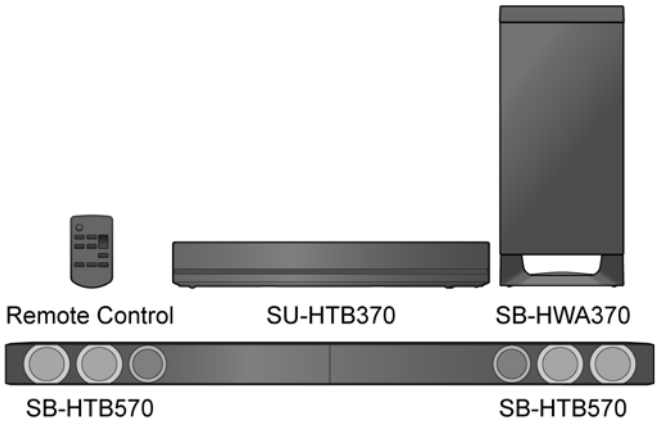
PSG1301002CE
A6

Service Manual

Home Theater Audio System

Model No. SU-HTB370P
SU-HTB370PC
SB-HTB570GN
SB-HWA370P
SB-HWA370PC
SC-HTB370P
SC-HTB370PC

Product Color: (K)...Black Type



⚠ WARNING

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

IMPORTANT SAFETY NOTICE

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

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Panasonic

1 Safety Precautions

1.1. General Guidelines

1. **IMPORTANT SAFETY NOTICE**

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

2. An Isolation Transformer should always be used during the servicing of AC Adaptor whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks. It will also protect AC Adaptor from being damaged by accidental shorting that may occur during servicing.
3. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
4. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
5. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Using an ohmmeter measure the resistance value, 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 5.2Ω. When the exposed metal does not have a return path to the chassis, the reading must be ∞

1.1.2. Leakage Current Hot Check

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

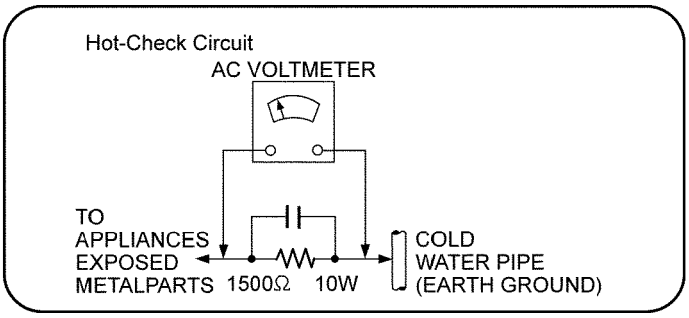

Figure 1-1

1.2. Before Repair and Adjustment

Main Unit (SU-HTB370)

Disconnect AC power, discharge unit AC Capacitors (C5700, C5701, C5702, C5703, C5704 and C5705) 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 120 V, 60 Hz during power on at no signal with volume minimum, (Selector : CD mode) should be ~150 mA.

Active Subwoofer (SB-HWA370)

Disconnect AC power, discharge unit AC Capacitors (C5700, C5701, C5702, C5703, C5704 and C5705) 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 120 V, 60 Hz during power on at link with volume minimum, (Selector : BD/DVD mode) should be ~200 mA.

1.3. Protection Circuitry

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

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.
If this occurs, follow the procedure outlines below:

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

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

1.4. Caution For Fuse Replacement

1.4.1. SU-HTB370/SB-HWA370

CAUTION:

Replace with the same type fuse:
(Manufacturer: SKYGATE, Type: SG SCT, F1, T3.15A 250V)

ATTENTION:

Utiliser un fusible de rechange de même type:
(Fabricant: SKYGATE, Type: SG SCT, F1, T3.15A 250V)

1.5. Safety Part Information

Safety Parts List:

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

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

1.5.1. Main Unit (SU-HTB370)

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
⚠	3	REX1579	1P RED WIRE(SMPS - AC INLET)	
⚠	4	REX1580	1P BLACK WIRE (SMPS - AC INLET)	
⚠	16	RKM0662B-K	TOP PANEL	
⚠	18	RGR0441A-B1	REAR PANEL	P
⚠	18	RGR0441A-B1	REAR PANEL	PC
⚠	29	RMZ1268	SMPS TOP INSULATOR	
⚠	C5700	F1BAF1020020	1000pF	
⚠	C5701	F0CAF104A105	0.1uF	
⚠	C5702	F0CAF104A105	0.1uF	
⚠	C5703	F0CAF104A105	0.1uF	
⚠	C5704	F1BAF471A013	470pF	
⚠	C5705	F1BAF471A013	470pF	
⚠	DZ5701	ERZV10V511CS	ZNR	(E.S.D)
⚠	F1	K5G312Y00007	FUSE	
⚠	L5702	G0B922G00004	LINE FILTER	
⚠	L5703	G0B922G00004	LINE FILTER	
⚠	P5701	K2AB2B000007	AC INLET	
⚠	PC5720	B3PBA0000579	PHOTO COUPLER	
⚠	PC5760	B3PBA0000579	PHOTO COUPLER	
⚠	PCB4	REP4860F	SMPS P.C.B.	(RTL)
⚠	PCB5	REP4860F	AC INLET P.C.B.	(RTL)
⚠	PCB6	REP4864A	DIGITAL TRANSMISTTER MODULE P.C.B.	
⚠	PCB7	N5HZZ0000128	BLUETOOTH MODULE P.C.B.	
⚠	R5700	ERJ8GEYJ155V	1.5M 1/4W	
⚠	R5701	ERJ8GEYJ155V	1.5M 1/4W	
⚠	R5710	ERJ8GEYJ155V	1.5M 1/4W	
⚠	T5701	ETS35BL18GAD	TRANSFORMER	
⚠	TH5702	D4CAA2R20001	THERMISTOR	
⚠	TH5821	D4CC11040005	THERMISTOR	
⚠	TH5822	D4CC11040005	THERMISTOR	
⚠	TH5860	D4CC11040013	THERMISTOR	

1.5.2. Front Speaker (SB-HTB570)

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
⚠	43	RGN3322-K	SPEC LABEL	

1.5.3. Active Subwoofer (SB-HWA370)

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
⚠	67	RGN3303-K1	SPEC LABEL	HWA370P
⚠	67	RGN3321-K1	SPEC LABEL	HWA370PC
⚠	75	RMZX0026-1	IC INSULATOR	
⚠	80	REX1579	1P RED WIRE (SMPS - AC INLET)	
⚠	84	REX1580	1P BLACK WIRE(SMPS - AC INLET)	
⚠	C5700	F1BAF1020020	1000pF	
⚠	C5701	F0CAF104A105	0.1uF	
⚠	C5702	F0CAF104A105	0.1uF	
⚠	C5703	F0CAF104A105	0.1uF	
⚠	C5704	F1BAF471A013	470pF	
⚠	C5705	F1BAF471A013	470pF	
⚠	DZ5701	ERZV10V511CS	ZNR	
⚠	F1	K5G312Y00007	FUSE	
⚠	L5702	G0B922G00004	LINE FILTER	
⚠	L5703	G0B922G00004	LINE FILTER	
⚠	P5701	K2AB2B000007	AC INLET	
⚠	PC5720	B3PBA0000579	PHOTO COUPLER	
⚠	PC5760	B3PBA0000579	PHOTO COUPLER	
⚠	PCB4	REP4860K	SW SMPS P.C.B.	(RTL)
⚠	PCB5	REP4860K	SW AC INLET P.C.B.	(RTL)
⚠	R5700	ERJ8GEYJ155V	1.5M 1/4W	
⚠	R5701	ERJ8GEYJ155V	1.5M 1/4W	
⚠	R5710	ERJ8GEYJ155V	1.5M 1/4W	
⚠	T5701	G4DYA0000441	TRANSFORMER	
⚠	TH5702	D4CAA2R20001	THERMISTOR	
⚠	TH5860	D4CC11040013	THERMISTOR	

1.5.4. System (SC-HTB370)

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
⚠	A1	N2QAYC000083	REMOTE CONTROL	
⚠	A2	K2CB2CB00022	AC CORD	
⚠	A3	RQT9776-Y	O/I BOOK (Cf)	PC
⚠	A3	RQT9777-P	O/I BOOK (En)	

1.6. Safety Installation Instructions

Professional installation is required.
The installation should never be done by any other than a qualified installation specialist.
PANASONIC DISCLAIMS ANY PROPERTY DAMAGE AND/OR SERIOUS INJURY, INCLUDING DEATH RESULTING FROM IMPROPER INSTALLATION OR INCORRECT HANDLING.
● Be sure to install this unit as indicated within this Owner's manual.

WARNING

Ensure that the installation location is strong enough to support long-term use.
● If its strength becomes insufficient over the course of long-term use, the unit may drop, possibly causing injury.
The installation work should be done by a qualified installation specialist.
● Incorrect installation may cause equipment to fall, and personal injury may result.
Include a safety factor when considering the strength of the proposed installation location.
● If strength is not sufficient the equipment may fall, and personal injury may result.
Do not install in a location that cannot bear the load.
● If the installation location lacks sufficient strength, the equipment may fall.
Do not modify the wall mount brackets.
● Otherwise the unit may fall and become damaged, and personal injury may result.
Install the unit by taking only the steps which are specified in these instructions: Do not install it in any other way.
● Otherwise the unit may drop and become damaged, and personal injury may result.
Do not install on a location other than a vertical wall.
● Otherwise the unit may drop and become damaged, and personal injury may result.

CAUTION

Do not install in any locations subject to humidity, dust, smoke, steam or heat or under an air conditioner where water may drip onto the unit.
● This may have an adverse effect on the unit and cause fire or electric shock.
Leave a clearance between the rear panel and the wall.
● The unit has air ventilation holes at the front and rear. Covering these may result in a fire.
Install the mounting screws and power cable in such a way that they will not make contact with metal objects or wiring inside the wall.
● Electric shocks may result from contact with any metal objects inside the wall.
For installation, use the special-purpose constituent parts.
● Otherwise, the unit may fall off the wall, and personal injury may result.
When removing this unit, remove the wall mounting screws as well.
● Otherwise the mounting screws may get caught and personal injury may result.
To operate this unit safely, install it at an appropriate height.
● Otherwise the unit may fall, and personal injury may result.

Figure 1-2

2 Warning

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

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices.

> Examples of typical ES devices are IC (integrated circuits) and some field-effect transistors and semiconductor "chip" components.

The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as “anti-static (ESD protected)” can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION:
   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

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2.2. Service caution based on Legal restrictions (Lead Free Solder, (PbF))

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

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

Definition of PCB Lead Free Solder being used

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

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

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

Recommended Lead Free Solder (Service Parts Route.)

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

Note

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

3 Service Navigation

3.1. Service Information

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

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

- **Flash IC :**
  The following components are supplied as an assembled part.
    - Flash IC, IC2001 (RFKWEHTB370M).

4 Specifications

■ Amplifier Section

RMS Output Power

Front ch (L, R ch)	60 W per channel (6 Ω), 1 kHz, 10% THD
Subwoofer ch	120 W per channel (8 Ω), 100 Hz, 10% THD
Total RMS Dolby Digital mode power	240 W

FTC output power

Front ch (L, R ch)	25 W per channel (6 Ω), 120 Hz to 20 kHz, 1.0% THD
Subwoofer ch	40 W per channel (8 Ω), 60 Hz to 120 Hz, 1.0% THD
Total FTC Dolby Digital mode power	90 W

■ Wireless section

Wireless module	
Frequency Range	2.40335 GHz to 2.47735 GHz
Number of channels	38

■ Terminal Section

Digital audio input	
Optical digital input (TV, BD/DVD)	2
Sampling frequency	32 kHz, 44.1 kHz, 48 kHz 88.2 kHz, 96 kHz (only LPCM)
Audio format	LPCM, Dolby Digital, DTS Digital Surround
Analog audio input	
Aux input (AUX)	1
USB Port	For service use only.

■ Speaker Section

Front speakers

3 way, 3 speaker system (Bass reflex type)

Speaker unit(s)	Impedance 6 Ω
Woofer	5.7 cm (2 1/4”) cone type
Tweeter	2.5 cm (1”) semi-dome type
Super tweeter	Piezo type
Output sound pressure	78 dB/W (1 m)
Frequency range	90 Hz to 32 kHz (-16 dB) 100 Hz to 23 kHz (-10 dB)

Active subwoofer

1 way, 1 speaker system (Bass reflex type)

Woofer	16 cm (6 1/2”) cone type
Output sound pressure	80 dB/W (1 m)
Frequency range	30 Hz to 180 Hz (-16 dB) 35 Hz to 160 Hz (-10 dB)

■ General

Power consumption	Main Unit: 22 W Active subwoofer: 20 W

In standby condition

Main Unit (When the other connected devices are turned off): Approx. 0.25 W

Active subwoofer (Power switch release): Approx. 0.2 W

Power supply	AC 120 V, 60 Hz
Dimensions (W x H x D)	
Main Unit	310 mm x 45 mm x 188 mm (12 3/16" x 1 12/16" x 7 6/16")
Active subwoofer	180 mm x 408 mm x 306 mm (7 3/32" x 16 1/16" x 12 1/16")
Mass (Weight)	
Main Unit	Approx. 1.15 kg (2.54 lbs)
Active subwoofer	4.76 kg (10.5 lbs)
Operating temperature range	0°C to +40°C (+32°F to +104°F)
Operating humidity range	20% to 80 % RH (no condensation)

■ Speaker general

Horizontal placement using the leg stands (High)

Dimensions (W x H x D)	1060 mm x 96 mm x 68 mm (41 12/16” x 3 12/16” x 2 11/16”)
Mass (Weight)	1.57 kg (3.46 lbs)

Horizontal placement using the leg stands (Low)

Dimensions (W x H x D)	1060 mm x 87 mm x 68 mm (41 12/16” x 3 7/16” x 2 11/16”)
Mass (Weight)	1.57 kg (3.46 lbs)

Horizontal placement using the support legs and the speaker feet

Dimensions (W x H x D)	1060 mm x 71 mm x 60 mm (41 12/16” x 2 13/16” x 2 6/16”)
Mass (Weight)	1.53 kg (3.37 lbs)

Horizontal placement (for wall mount)

Dimensions (W x H x D)	1060 mm x 68 mm x 41 mm (41 12/16” x 2 11/16” x 1 10/16”)
Mass (Weight)	1.49 kg (3.48 lbs)

Vertical placement using the speaker bases

Dimensions (W x H x D)	148 mm x 552 mm x 148 mm (5 13/16" x 21 12/16" x 5 13/16")
Mass (Weight)	0.89 kg (1.96 lbs)

Vertical placement (for wall mount)

Dimensions (W x H x D)	68 mm x 541 mm x 41 mm (2 11/16” x 21 5/16” x 1 10/16”)
Mass (Weight)	0.78 kg (1.72 lbs)

■ Bluetooth Section

Bluetooth system specification	Version 3.0
Wireless equipment classification	Class 2
Supported profiles	A2DP
Frequency band	2402 MHz to 2480 MHz (Adaptive Frequency Hopping)
Operating distance	10 m (33 ft) Line of Sight

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

■ System: SC-HTB370P-K	MAIN UNIT : SU-HTB370P-K FRONT SPEAKERS : SB-HTB570GNK ACTIVE SUBWOOFER : SB-HWA370P-K
■ System: SC-HTB370PCK	MAIN UNIT : SU-HTB370PCK FRONT SPEAKERS : SB-HTB570GNK ACTIVE SUBWOOFER : SB-HWA370PCK

5 General/Introduction

5.1. About Bluetooth and Operation

About Bluetooth®

Panasonic bears no responsibility for data and/or information that is compromised during a wireless transmission.

■ Frequency band used

This system uses the 2.4 GHz frequency band.

■ Certification of this device

- This system conforms to frequency restrictions and has received certification based on frequency laws. Thus, a wireless permit is not necessary.
- The action below are punishable by law in some countries:
  - Taking apart or modifying the unit.
  - Removing specification indications.

■ Restrictions of use

- Wireless transmission and/or usage with all Bluetooth® equipped devices is not guaranteed.
- All devices must conform to standards set by Bluetooth SIG, Inc.
- Depending on the specifications and settings of a device, it can fail to connect or some operations can be different.
- This system supports Bluetooth® security features. But depending on the operating environment and/or settings, this security is possibly not sufficient. Transmit data wirelessly to this system with caution.
- This system cannot transmit data to a Bluetooth® device.

■ Range of use

Use this device at a maximum range of 10 m (33 ft).
The range can decrease depending on the environment, obstacles or interference.

■ Interference from other devices

- This system may not function properly and troubles such as noise and sound jumps may arise due to radio wave interference if the main unit is located too close to other Bluetooth® devices or the devices that use the 2.4 GHz band.
- This system may not function properly if radio waves from a nearby broadcasting station, etc. are too strong.

■ Intended usage

- This system is for normal, general use only.
- Do not use this system near equipment or in an environment that is sensitive to radio frequency interference (example: airports, hospitals, laboratories, etc).

Bluetooth® connection

By using the Bluetooth® connection, you can listen to the sound from the Bluetooth® audio device from this system wirelessly.

Preparation

- Turn on the Bluetooth® feature of the device and place the device near the main unit.

Bluetooth® pairing

1 Press [Bluetooth] to select "Bluetooth".

- If the "Bluetooth" indicator flashes quickly, go to step 3.

2 Press and hold [Bluetooth] until the "Bluetooth" indicator flashes quickly.

- If the "Bluetooth" indicator flashes slowly, repeat step 2.

3 Select "SC-HTB370" from the Bluetooth® device's Bluetooth® menu.

- If prompted for the passkey on the Bluetooth® device, enter "0000".
- Once the Bluetooth® device is connected, the "Bluetooth" indicator stops flashing and lights up.

Connecting a Bluetooth® device

1 Press [Bluetooth] to select "Bluetooth".

- If the "Bluetooth" indicator lights, a Bluetooth® device is already connected with this system. Disconnect it. (⇨ below)

2 Select "SC-HTB370" from the Bluetooth® device's Bluetooth® menu.

■ Disconnecting a Bluetooth® device

Press and hold [Bluetooth] until the "Bluetooth" indicator flashes slowly.

- When "Bluetooth" is selected as the source, this system will automatically try and connect to the last connected Bluetooth® device.
- The Bluetooth® device will be disconnected if a different audio source (e.g. "TV") is selected.
- Refer to the operating instructions of the Bluetooth® device for further instruction on how to connect a Bluetooth® device.
- This system can only be connected to one device at a time.
- You can register up to 8 devices with this system. If a 9th device is paired, the device that has not been used for the longest time will be replaced.
- To change the sound quality, refer to "Bluetooth® communication mode".

5.2. Others (Licenses)

Manufactured under license from Dolby Laboratories.
Dolby, Pro Logic, and the double-D symbol are trademarks of Dolby Laboratories.

Manufactured under license under U.S. Patent Nos: 5,956,674; 5,974,380; 6,487,535 & other U.S. and worldwide patents issued & pending.
DTS, the Symbol, & DTS and the Symbol together are registered trademarks & DTS Digital Surround and the DTS logos are trademarks of DTS, Inc. Product includes software.
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The Bluetooth® word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Panasonic Corporation is under license. Other trademarks and trade names are those of their respective owners.

As an ENERGY STAR® Partner,※ Panasonic has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

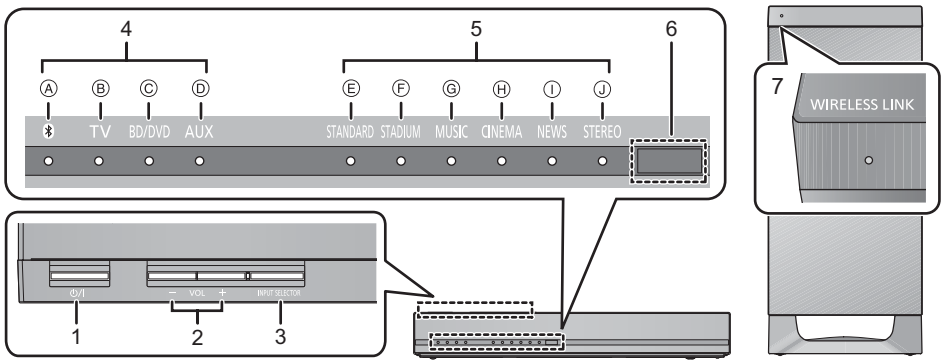
※ For Canada only: The word “Participant” is used in place of the word “Partner”.

6 Location of Controls and Components

6.1. Main Unit & Active Subwoofer Key Button Operations

6.1.1. Front View

This system (Front)



Main unit **Active subwoofer**

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

2 Adjust the volume of this system

3 Select the input source
"TV" ⟶ "BD/DVD" ⟶ "AUX"
↑ "ᛒ" ⟵ ┘

4 Input selector indicators ※1
Ⓐ Bluetooth® indicator
Lights blue when the Bluetooth® device is the audio source
Ⓑ TV indicator
Lights green when the TV is the audio source
Ⓒ BD/DVD indicator
Lights amber when the device connected to the BD/DVD terminal is the audio source
Ⓓ AUX indicator
Lights amber when the device connected to the AUX terminal is the audio source

5 Sound mode indicators ※1
Ⓔ STANDARD indicator
Lights when STANDARD is the current sound mode
Ⓕ STADIUM indicator ※2
Lights when STADIUM is the current sound mode
Ⓖ MUSIC indicator ※2
Lights when MUSIC is the current sound mode
Ⓗ CINEMA indicator
Lights when CINEMA is the current sound mode
Ⓘ NEWS indicator
Lights when NEWS is the current sound mode
Ⓙ STEREO indicator
Lights when STEREO is the current sound mode

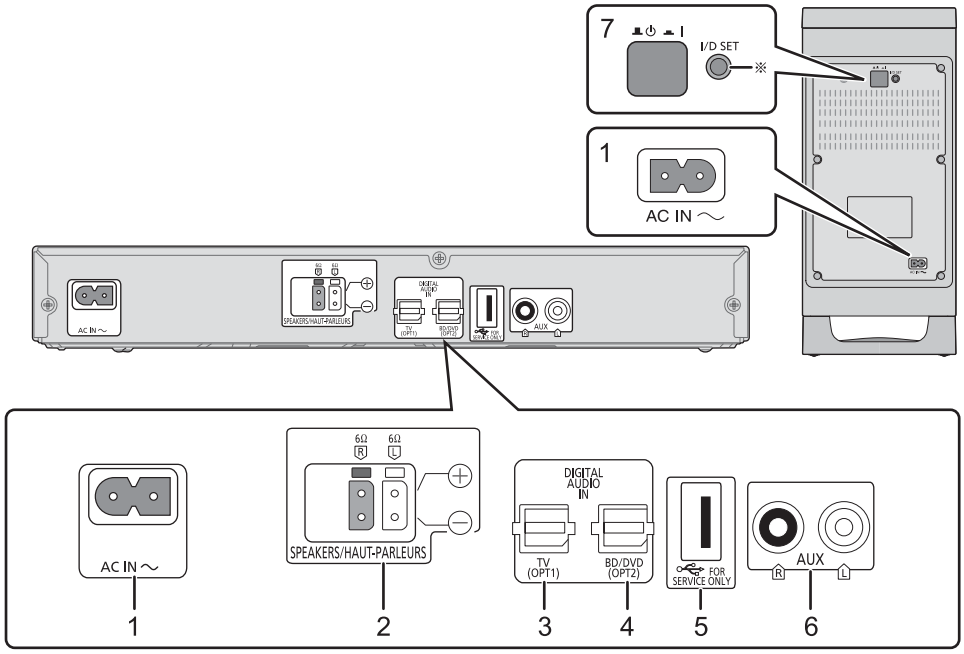
6 Remote control signal sensor

7 WIRELESS LINK indicator

※ 1 The indicators will also blink in various conditions.
※ 2 The indicator blinks for 5 sec when the main unit detects an audio format.
To manually verify the current audio format and the corresponding indicators, refer to O/I Book on (Audio format indicator).

6.1.2. Rear View

This system (Rear)

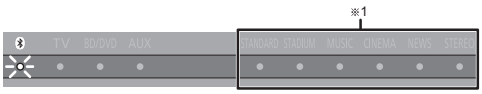


1 AC IN terminal
2 Speaker terminals
3 TV terminal
4 BD/DVD terminal
5 USB port (for service use only)
6 AUX terminal
7 Active subwoofer on/off button

※ The I/D SET button is only used when the main unit is not paired with the active subwoofer.

6.2. Indicator illumination

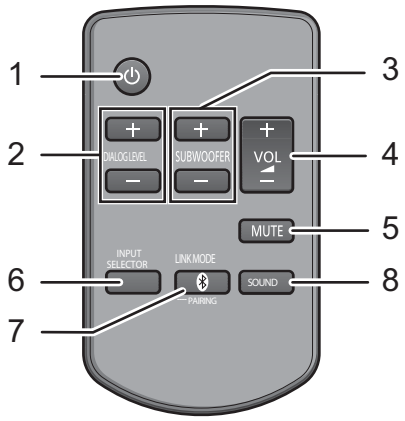
The indicators display the condition of this system by flashing. The indicator patterns illustrated below are displayed during normal operational conditions. They do not refer to the indications of a problem.

Indicator	Description
	**The BD/DVD indicator blinks※2 and sound mode indicators light up in sequence for 1 minute.** ● When the main unit is in wireless pairing mode with the active subwoofer
	**The indicator blinks for 10 sec.** ● When the Bluetooth® communication is mode 1 **The indicator blinks for 20 sec.** ● When 3D surround effect and clear-mode dialog effect are on ● When the dual audio setting is Main ● When the auto gain control is on
	**The indicator blinks for 5 sec.** ● When the audio format is Dolby Digital
	**The indicator blinks for 5 sec.** ● When the audio format is DTS
	**The indicator blinks for 5 sec.** ● When the audio format is PCM※3
	**The indicator blinks for 10 sec.** ● When the Bluetooth® communication is mode 2 **The indicator blinks for 20 sec.** ● When 3D surround effect and clear-mode dialog effect are off ● When the dual audio setting is Secondary (SAP: Secondary Audio Program) ● When the auto gain control is off
	**The indicators blink for 20 sec.** ● When the dual audio setting is Main and Secondary
	**The indicators blink for 10 sec.** ● When the remote control code is changed **The indicators blink once.** ● When changing the setting (“To reduce the clear-mode dialog effect” and “To turn off the volume limitation”) **The indicators blink twice.** ● when the main unit is reset
	**Bluetooth® indicator blinks quickly.** ● When the main unit is ready for pairing **Bluetooth® indicator blinks slowly.** ● When the main unit is waiting to connect **Bluetooth® indicator turns on.** ● When the main unit is connected with a Bluetooth® device

※1 The indicator for the current status remains lit.
※2 The BD/DVD indicator stops blinking and lights once the wireless pairing is successful.
※3 The indicator blinks only when [SOUND] is pressed for more than 4 sec and the audio format is PCM.

6.3. Remote Control Key Button Operations

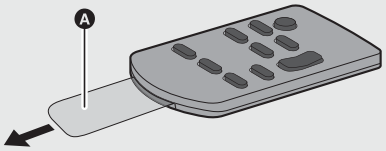
Remote control



1 Turn the main unit on or off
2 Adjust the dialog effect level
3 Adjust the output level of the active subwoofer (bass sound)
4 Adjust the volume of this system
5 Mute the sound
6 Select the input source
"TV" ⟶ "BD/DVD" ⟶ "AUX"
↑ "Bluetooth" ←
7 Select the Bluetooth® device as the source
8 Select the sound mode
"STANDARD" ⟶ "STADIUM" ⟶ "MUSIC"
↑ "STEREO" ← "NEWS" ← "CINEMA" ←

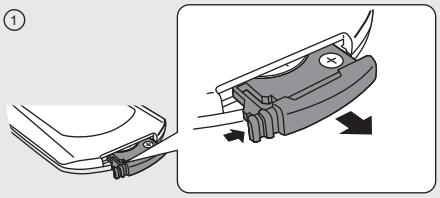
■ Before using for the first time

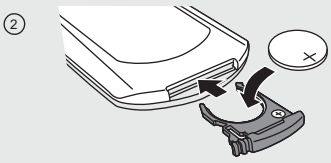
Remove the insulation sheet Ⓐ.



■ To replace a button-type battery

Battery type: CR2025 (Lithium battery)



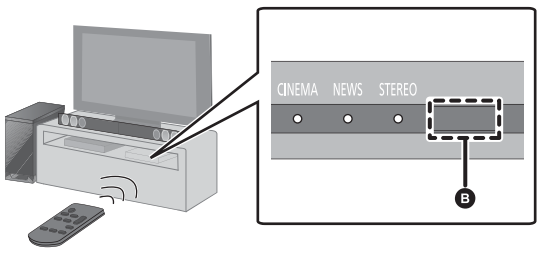


- Set the button-type battery with its (+) mark facing upward.
- Keep the button-type battery out of reach of children to prevent swallowing.

■ Remote control operation range

The remote control signal sensor is located on the main unit.

- Use the remote control within the correct operation range.

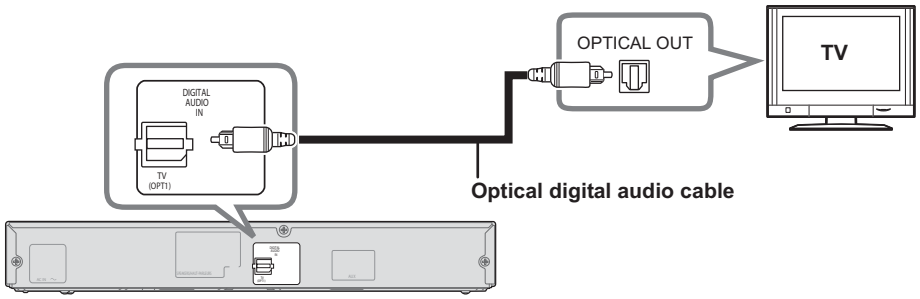


Ⓑ Remote control signal sensor
- **Operation range**
  Distance: Within approx. 7 m (23 ft) directly in front
  Angle: Approx. 30° left and right

7 Installation Instructions

7.1. Connections

7.1.1. Connection with the TV

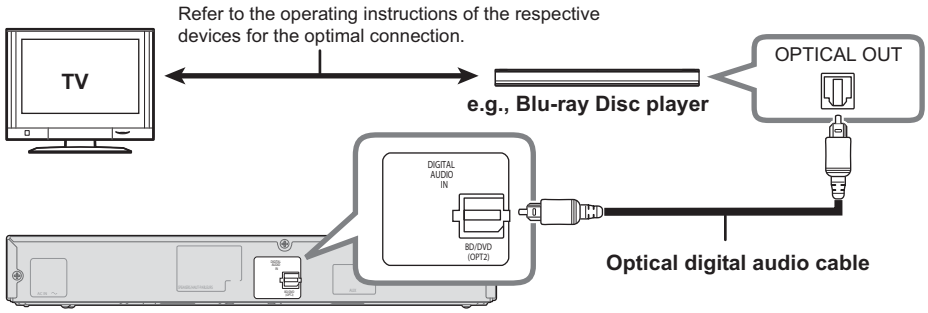


- When you use the optical digital audio cable, insert the tip correctly into the terminal.

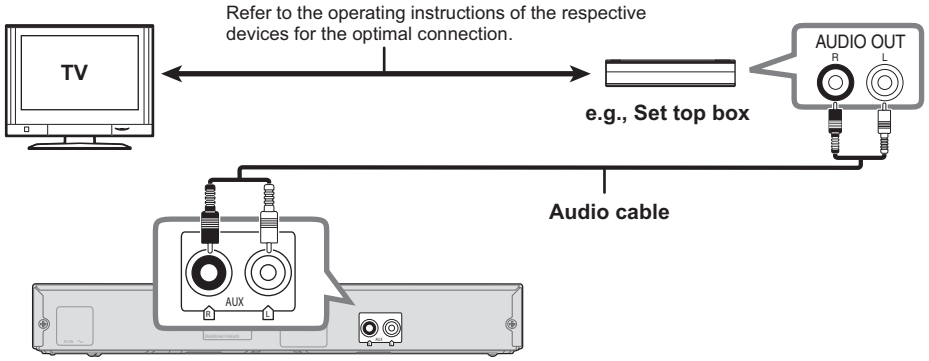
7.1.2. Connection with other devices

You can direct the audio signal from the connected Blu-ray Disc player, DVD player, Set Top Box, etc. to this system.

High quality audio

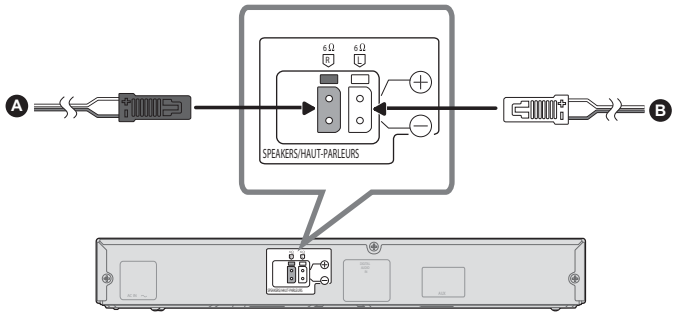


Standard quality audio



7.1.3. Speaker cable connection

Match the connector shape and connect to the terminals of the same color.

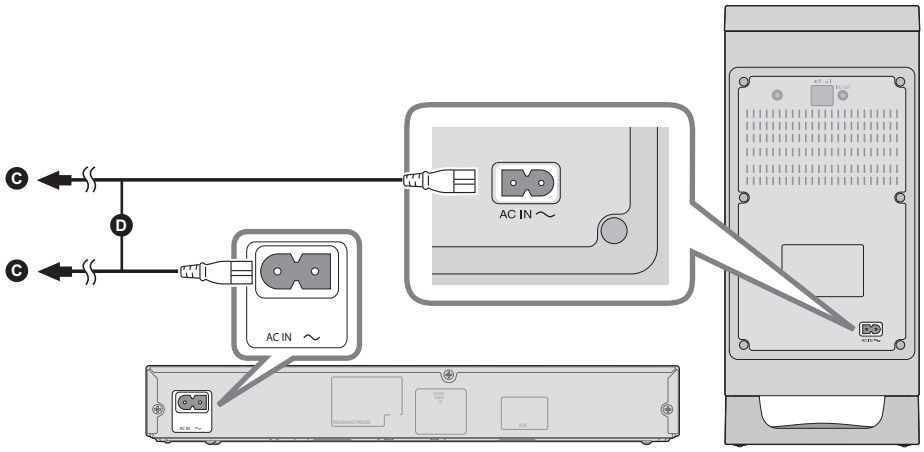


A RED
Right speaker connector

B WHITE
Left speaker connector

7.1.4. AC power supply cord connection

• **Connect only after all other connections are completed.**



C To a household AC outlet

D **AC power supply cord** (supplied)

• This system consumes a small amount of AC power even when it is turned off. In the interest of power conservation, if you will not be using this system for a long time, unplug it from the household AC outlet.

Saving energy

The main unit is designed to conserve its power consumption and save energy.

• **The main unit will automatically switch to standby mode** when no signal is input and no operation is performed for approx. 30 minutes.

8 Service Mode

This unit is equipped with features of self-diagnostic & special mode setting for checking the functions & reliability of the unit.
Special Note : Checking of the reliability (ageing) & operation must be carry out to ensure good working condition in unit.

8.1. Method to enter into Service Mode

Here are the procedures to enter into service mode:

Step 1 : Power up the unit.

Step 2 : Press & hold [VOL-] on the unit, follow by [SUB-] & [SUB+] on the remote control.

Note : All LEDs will blink 4 times followed all LEDs off.
Step 3 : It enters into service mode.

8.2. Model Display Details by LED Blinking Indicators

After entering into service mode, the following keys on the remote control can be pressed to determine:-

1. Microprocessor firmware version number
2. Model No.
3. Region setting
4. Wireless pairing

Note : The LED blinking process will stop when the unit is power off completely.

LED Indication / Key Buttons	LED 1 (BT)	LED 2 (TV)	LED 3 (BD/ DVD)	LED 4 (AUX)	LED 5 (STAN-DARD)	LED 6 (DOLBY D STA-DIUM)	LED 7 (DTS MUSIC)	LED 8 (AAC or PCM CIN-EMA)	LED 9 (NEWS)	LED 10 (STE-REO)	Mode Description
INPUT SELECTOR (Model with BT) or TV (Model w/o BT)	-	O	-	-	-	-	-	-	-	-	Error history display By pressing button, it goes back its history list. Eg: [1 F76] -> [2 F70HDM] -> [3 F61]
BT (Model with BT) or BD/DVD (Model w/o BT)	-	O	-	-	-	-	-	-	-	-	Accumulation Opera-tion Time Display Eg: [15H](15 Hours), [45M](45 Minutes)
SUBWOOFER -	X	X	Link Status	X	->	->	->	->	->	->	Wireless Subwoofer Pairing
VOLUME + (Press once)	X	O	X	X	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Firmware version (Refer to Table 8-2)
VOLUME + (Press twice)	X	X	O	X	X	Model 1	Model 2	Model 3	X	X	Model name (Refer to Table 8-3)
VOLUME + (Press thrice)	X	O	O	X	X	REG 2	REG 1	REG 0	X	X	Region display (Refer to Table 8-4)
POWER	X	X	X	X	X	X	X	X	X	X	Exit Service Mode and Power Off

Link status (for wireless Subwoofer

*	No Link
o	Link

Connection (for Bluetooth)

*	Waiting
**	Paring
o	Connected

* slow blink
** blink

"O" means LED on
"X" means LED off
"*" means LED blink
"->" means LED blinking in progress

Link Status
"O" means LED on
"X" means LED off
"*" means LED blink
"->" means LED blinking in progress

Table 8-1

8.2.1. Firmware version

It is to indicate the firmware version no. (Refer to table 8-2 for more information).
The firmware version is represented by 5 bits.
Version number display are repeated every 64 releases.

Version No	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
01, 65 …	X	X	X	X	X	O
02, 66 …	X	X	X	X	O	X
03, 67 …	X	X	X	X	O	O
04, 68 …	X	X	X	O	X	X
05, 69 …	X	X	X	O	X	O
06, 70 …	X	X	X	O	O	X
07, 71 …	X	X	X	O	O	O
08, 72 …	X	X	O	X	X	X
09, 73 …	X	X	O	X	X	O
10, 74 …	X	X	O	X	O	X
11, 75 …	X	X	O	X	O	O
12, 76 …	X	X	O	O	X	X
13, 77 …	X	X	O	O	X	O
14, 78 …	X	X	O	O	O	X
15, 79 …	X	X	O	O	O	O
16, 80 ...	X	O	X	X	X	X
17, 81 …	X	O	X	X	X	O
18, 82 …	X	O	X	X	O	X
19, 83 …	X	O	X	X	O	O
20, 84 …	X	O	X	O	X	X
21, 85 …	X	O	X	O	X	O
22, 86 …	X	O	X	O	O	X
23, 87 …	X	O	X	O	O	O
24, 88 …	X	O	O	X	X	X
25, 89 …	X	O	O	X	X	O
26, 90 …	X	O	O	X	O	X
27, 91 …	X	O	O	X	O	O
28, 92 …	X	O	O	O	X	X
29, 93 …	X	O	O	O	X	O
30, 94 …	X	O	O	O	O	X
31, 95 …	X	O	O	O	O	O
32, 96 ...	O	X	X	X	X	X
33, 97 …	O	X	X	X	X	O
34, 98 …	O	X	X	X	O	X
35, 99 …	O	X	X	X	O	O
36, 100 …	O	X	X	O	X	X
37, 101 …	O	X	X	O	X	O
38, 102 …	O	X	X	O	O	X
39, 103 …	O	X	X	O	O	O
40, 104 …	O	X	O	X	X	X
41, 105 …	O	X	O	X	X	O
42, 106 …	O	X	O	X	O	X
43, 107 …	O	X	O	X	O	O
44, 108 …	O	X	O	O	X	X
45, 109 …	O	X	O	O	X	O
46, 110 …	O	X	O	O	O	X
47, 111 …	O	X	O	O	O	O
48, 112 ...	O	O	X	X	X	X
49, 113 …	O	O	X	X	X	O
50, 114 …	O	O	X	X	O	X
51, 115 …	O	O	X	X	O	O
52, 116 …	O	O	X	O	X	X
53, 117 …	O	O	X	O	X	O
54, 118 …	O	O	X	O	O	X
55, 119 …	O	O	X	O	O	O
56, 120 …	O	O	O	X	X	X
57, 121 …	O	O	O	X	X	O
58, 122 …	O	O	O	X	O	X
59, 123 …	O	O	O	X	O	O
60, 124 …	O	O	O	O	X	X
61, 125 …	O	O	O	O	X	O

Version No	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
62, 126 …	O	O	O	O	O	X
63, 127 …	O	O	O	O	O	O
Link Status “O” means LED on “X” means LED off						

Table 8-2

8.2.2. Model Number Display

It is to indicate the model number. (Refer to table 8-3 for more information).

Model 1	Model 2	Model 3	Model No.
X	O	O	HTB770
O	X	X	HTB570
O	X	O	HTB370
O	O	X	Reserve 1
O	O	O	Reserve 2
Link Status “O” means LED on “X” means LED off			

Table 8-3

8.2.3. Region Bit No.

It is to indicate the region for the model number. (Refer to table 8-4 for more information).

REG2	REG1	REG0	Region
X	X	X	Europe / Ocenia / Asia / South / Centr. America / China / Russia
X	O	X	US / Canada
X	O	O	China
O	X	X	Japan
O	X	O	Reserve 1
O	O	X	Reserve 2
O	O	O	Reserve 3
Link Status “O” means LED on “X” means LED off			

Table 8-4

8.3. Error Codes Display

This unit does not have a FL/LCD display unit hence error code (when a fault condition occurs) is represented by the LED status indicators. Refer to Figure 8-1

Here is the description of the LED status indicators:

LED No.	Description
LED 1	BLUETOOTH input selector indicator
LED 2	TV input selector indicator (OPTICAL INPUT 1)
LED 3	BD/DVD input selector indicator (OPTICAL INPUT 2)
LED 4	AUX input selector indicator (AUX INPUT)
LED 5	STANDARD decorder/audio format indicator
LED 6	DOLBY D/STADIUM decorder/audio format indicator
LED 7	DTS/MUSIC decorder/audio format indicator
LED 8	AAC decorder/audio format indicator (Japan region)
LED 8	PCM/CINEMA decorder/audio format indicator (Non Japan region)
LED 9	NEWS decorder/audio format indicator
LED 10	STEREO decorder/audio format indicator

Table 8-5

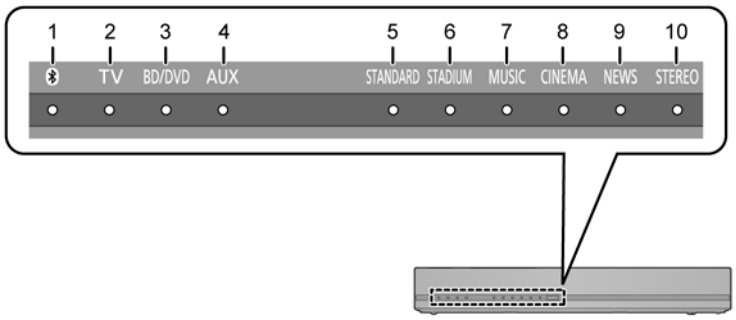


Figure 8-1

8.3.1. Error Code Display Details by LED Blinking Indicators

This section describes the LED status indicators by its blinking to represent the error codes.

Caution: The LED blinking process will stop only when the unit is power off completely.

Error Code	LED 1 (BT)	LED 2 (TV)	LED 3 (BD/ DVD)	LED 4 (AUX)	LED 5 (STANDARD)	LED 6 (STA-DIUM/ DOLBY D)	LED 7 (MUSIC/ DTS)	LED 8 (CIN-EMA/ AAC or PCM)	LED 9 (NEWS)	LED 10 (STE-REO)	Cause and Problem
OVERLOAD (F61) If this error occurs, main set will automatically power off.	X	*	*	X	X	X	X	X	X	X	Speaker protection, DAMP IC abnormality. Check for faulty parts and replace with new parts if necessary.
F76 If this error occurs, main set will automatically power off.	X	*	X	X	X	X	X	X	X	X	DC Power/Voltage Supply abnormality. Check for faulty parts and replace with new parts if necessary.
F70 BT	*	*	*	X	X	X	X	X	X	X	Bluetooth communication error. Check for faulty parts and replace with new parts if necessary.
USB Update Fail	X	X	X	X	X	X	X	X	X	*	USB communication error. Check for faulty parts and replace with new parts if necessary.
USB Overcurrent	*	*	*	X	*	*	*	*	*	*	USB communication error. Check for faulty parts and replace with new parts if necessary.
“X” means LED off. “*” means LED blink											

Table 8-6

8.4. Cold start

Step 1 : Power up the unit.
Step 2 : Press & hold [POWER] button on the unit for 4s or more.

All LED will light-up and blink for 2 times (at frequency of 4Hz)

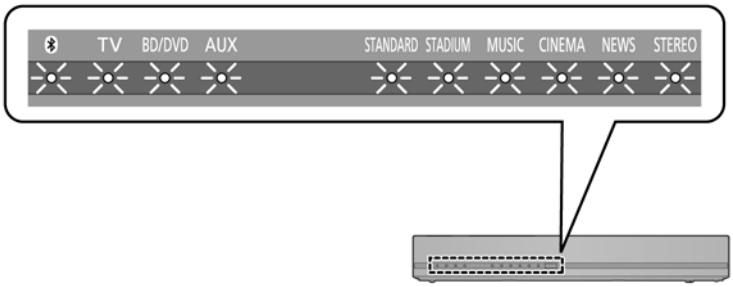


Figure 8-2

8.5. Pairing mode between Main Unit (SU) with Active Subwoofer (SB-HWA)

Here are the procedures to do pairing between Main Unit (SU-HTB370) with Active Subwoofer (SB-HWA370)
Step 1 : Power up the Main Unit & Active Subwoofer.
Note : Please check the connections in Main Unit and Active Subwoofer when either fails to power up. (WIRELESS LINK indicator on Active Subwoofer should turn RED if it is not linked)
Step 2 : Press [ID SET] on the rear of Active Subwoofer for more that 3 sec. (The WIRELESS LINK indicator will blink in red)
WIRELESS LINK indicator on Active Subwoofer shall blinking for up to 1 minutes to indicate it is in ready for pairing mode.
Step 3 : During WIRELESS LINK indicator on Active Subwoofer blinking, press [INPUT SELECTOR] or [AUX] on remote control followed by [VOL +] on Main Unit for more than 4 sec. (Pairing begins)
This step also can be carried out under Service Mode by press [SUB-] on remote control followed by [VOL+] on Main Unit for 2 secs. (Pairing begins)
Note :

1. **Under Pairing Mode, [BD/DVD] LED blinking and 6 indicators LEDs (STANDARD, STADIUM(Dolby D), MUSIC(DTS), CINEMA(AAC/PCM), NEWS and STEREO) will run one by one (shifting) for every 1 sec from left to right to indicate it is searching for the receiver to be linked and repeated the cycle after reached the [STEREO] LED.**
2. **When pairing is completed. [BD/DVD] LED on Main Unit will light up and WIRELESS LINK indicator on Active Subwoofer turns GREEN if pairing is successful.**
3. **Wireless pairing automatically exit after 1 minute.**

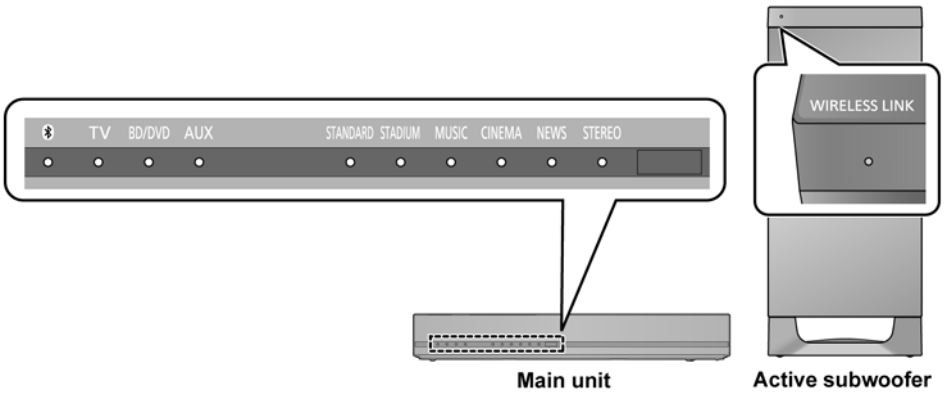


Figure 8-3

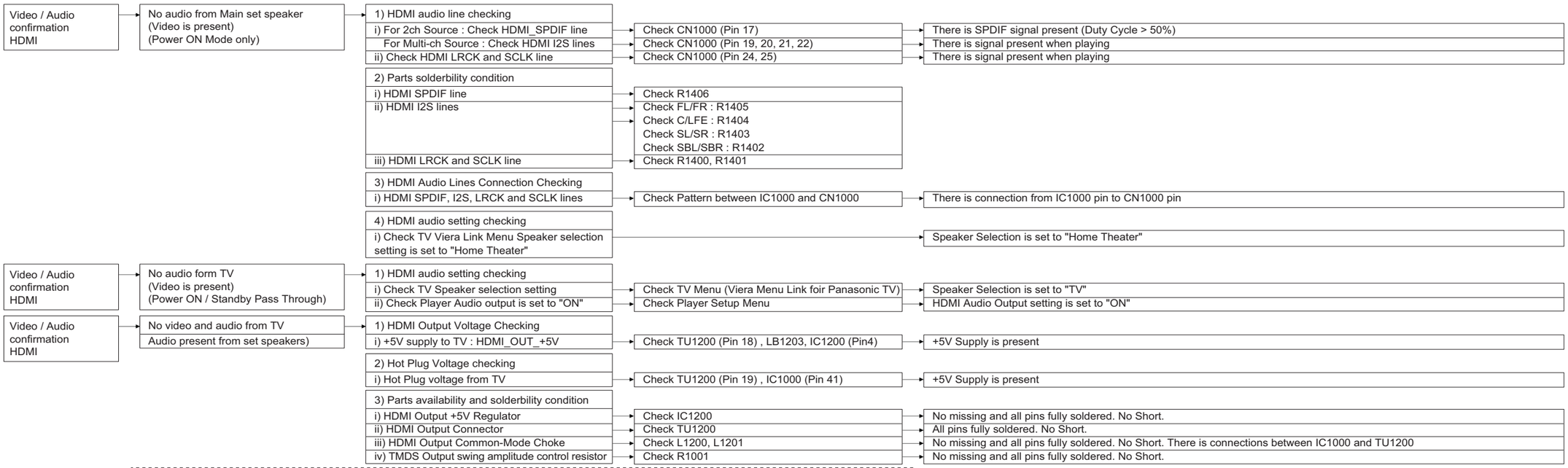
9 Troubleshooting Guide

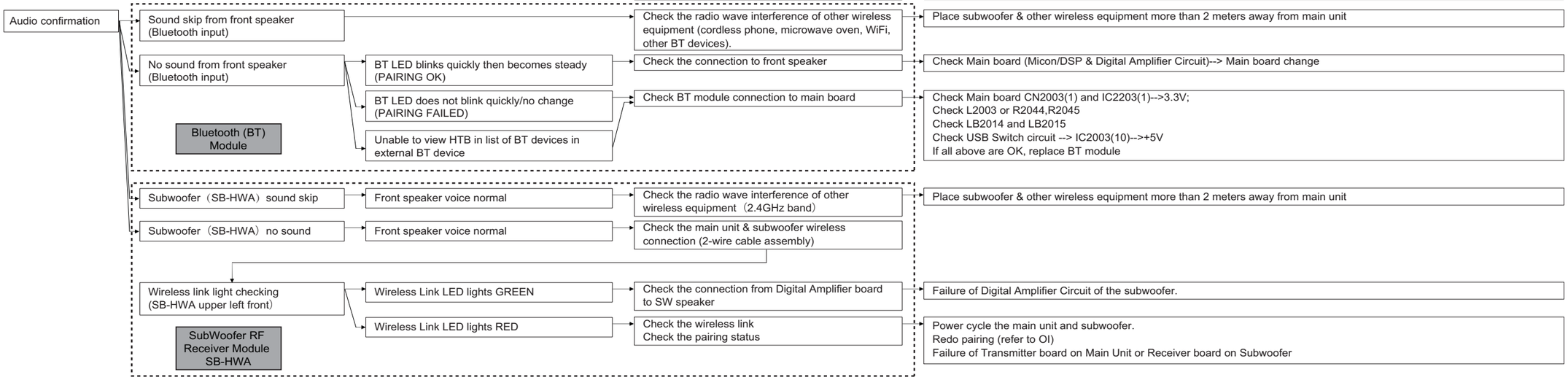
SC-HTB770

・How to reset （Factory setup condition）
1. Turn on the power of main set.
2. Press and hold the power button for 5 seconds. (Repeat the flashing of all LED twice)
3. Turn off the power.

・The entering method of Service Mode （after turn off the power, you can exit from Service Mode)
1. Setting main set in power on status.
2. Press the main set [Volume-] button, then continue press the [SUB -] & [SUB+] of remote control. (All LEDs will blink four times, followed by all LEDs OFF)

Main set power ON	Power do not turn on (The input display LED not lit）	Power on by remote control ・OK	Check the connection of FFC connector FFC wire checking Switch operation checking LED display checking	・Check the 13P of [Panel]-[Main] FFC connector. ・Check the 13P of [Panel]-[Main] FFC wire. ・The both end voltage of [Panel] power switch S6002 is press →0 V, release →3.3V to 3.5V
		Power on by remote control ・NG	Check the connection of FFC connector ・wire Checking the system 5V circuit Checking the AC inlet code Checking fuse cut	・Check [Panel] CN6001(3)→3.3V, CN6001(13)→6V & FFC connectors 13P of [Panel]-[Main] & 26P of [HDMI]-[Main] connection. Check 10P of [Switching power module]-[Main] connector/wire connection. ・[SMPS] JW1(5）→3.8V to 5V, [Main] IC2202（4)→3.6V to 3.8V. ・Check [SMPS]-[ACinlet] wire, copper pattern and solder condition. ・Check the continuity of [SMPS] F1.
	Power input but turn off immediately	Error contents F76	Television LED flashing, power off	・Check the IC overcurrent ・overheating ・failure of [Digital Amplifier] → [Digital Amplifier] exchange.
		Error contents F61	Television & BD/DVD LED flashing, power off	・Check the each power (eg AMP,+12V,+5.6,+3.3,+1.8V)
	Power input but LED error display	Error contents F70 BT Error contents F70 DAP Error contents F70 HDMI	Television & BD/DVD, BT LED flashing Television & BD/DVD, STADIUM / Dolby, MUSIC / DTS LED flashing Television & BD/DVD, STADIUM / Dolby, MUSIC / DTS, CINEMA / AAC LED flashing	・[Main] BT & communication error of the microcomputer → [Main] board exchange or [BT] module exchange. ・[Main], IC of [Digital Amplifier] DAMP & communication error of the microcomputer → [Digital Amplifier] board exchange. ・[Main] IC of HDMI & communication error of the microcomputer → [Main] board or [HDMI] board exchange.
		Error contents U701/703/704	BD/DVD LED only repeat flashing	・Try once to "On / Off" the power of the connected device. Try to connect or disconnect the HDMI cable.
Fuse cut	After replacement, cut again at outlet connection	The primary side of main power supply abnormal	Check the continuity of primary side power circuit	・Short-open power transformer, electrolytic diode IC・[SMPS]. ・(D5701,C5712,IC5701,T5701).
	After replacement, cut again at power on	The secondary side of main power supply abnormal	Check the continuity of secondary side power circuit	・Short-open power-electrolytic IC diode [switching power module]. ・(D5802,C5805,IC5801).
LED display checking	Check the display by Service Mode	Some not lighting ・not light off	Failure of drive IC ・Failure of not lights up LED	・[Panel] IC6001(5,6,7,8,9,10,11,12,13,14,15,16) LED：ON→0V, OFF→>2.4V.
		All not lighting	Check drive IC ・serial signal ・FFC	・[Panel] IC6001(18)→3.3V、QR6003.c→6V, QR6003.e→5.6V/4.1V(Dimmer), QR6002.e→5.2V/2.4V(Dimmer). ・Check [Panel] IC6001（2,3,4）serial signal.
Video / Audio confirmation HDMI	No video and audio (Power ON / Standby Pass Through)	1) External Connection checking		
		i) Check whether HDMI Input and Output is reversed.	Check Cable connection	Cable not reverse
		ii) Check whether HDMI cable properly inserted.	Check Cable connection	Cable inserted properly
		2) HDMI Supply Voltage checking		
		i) Check whether +3.3V is present	Check IC1100 (Pin 1) , IC1200 (Pin 5)	+3.3V Supply is present
		ii) Check whether +1.8V is present	Check IC1101 (Pin 1) , IC1200 (Pin 5)	+1.8V Supply is present
		3) HDMI Output Voltage Checking		
		i) +5V supply to TV : HDMI_OUT_+5V	Check TU1200 (Pin 18) , LB1203, IC1200 (Pin4)	+5V Supply is present
		4) Hot Plug Voltage checking		
		i) Hot Plug voltage from TV	Check TU1200 (Pin 19) , IC1000 (Pin 41)	+5V Supply is present
		5) Parts availability and solderbility condition		
		i) HDMI Tx/Rx LSI	Check IC1000	All pins fully soldered. No Short.
		ii) TMDS output swing amplitude control resistor	Check R1001	No missing and all pins fully soldered. No Short.
		iii) HDMI Output Connector	Check TU1200	All pins fully soldered. No Short.
		iv) HDMI Output Common-Mode Choke	Check L1200, L1201	No missing and all pins fully soldered. No Short. There is connections between IC1000 and TU1200
		v) HDMI Output +5V Regulator	Check IC1200	No missing and all pins fully soldered. No Short.
		vi) HDMI Input Connector	Check TU1300, TU1325, TU1350	No missing and all pins fully soldered. No Short.
		vii) HDMI Input Common-Mode Choke	Check Input A : L1300, L1301 Check Input B : L1325, L1326 Check Input C : L1350, L1351	No missing and all pins fully soldered. No Short.
		viii) HDMI Input +5V detect	Check D1104, D1105, D1106	No missing and all pins fully soldered. No Short.
		6) HDMI Connections Checking		
		i) HDMI Output TMDS and DDC signal lines	Check Pattern between IC1000 and TU1200	There is connection from IC1000 pin to TU1200 pin
		ii) HDMI Input TMDS and DDC signal lines	Check Pattern between IC1000 and TU1300 or TU1325 or TU1350	There is connection from IC1000 pin to TU1300 or TU1325 or TU1350 pin
		7) HDMI Communication line checking		
		i) HDMI I2C control line from Main Micon	Check CN1000 (Pin 11 & 12), IC1000 (Pin 78 & 79)	There is signal present


Video / Audio confirmation HDMI
No audio from Main set speaker (Video is present) (Power ON Mode only)
1) HDMI audio line checking
i) For 2ch Source : Check HDMI_SPDIF line
For Multi-ch Source : Check HDMI I2S lines
ii) Check HDMI LRCK and SCLK line
Check CN1000 (Pin 17)
Check CN1000 (Pin 19, 20, 21, 22)
Check CN1000 (Pin 24, 25)
There is SPDIF signal present (Duty Cycle > 50%)
There is signal present when playing
There is signal present when playing
2) Parts solderbility condition
i) HDMI SPDIF line
ii) HDMI I2S lines
iii) HDMI LRCK and SCLK line
Check R1406
Check FL/FR : R1405
Check C/LFE : R1404
Check SL/SR : R1403
Check SBL/SBR : R1402
Check R1400, R1401
3) HDMI Audio Lines Connection Checking
i) HDMI SPDIF, I2S, LRCK and SCLK lines
Check Pattern between IC1000 and CN1000
There is connection from IC1000 pin to CN1000 pin
4) HDMI audio setting checking
i) Check TV Viera Link Menu Speaker selection setting is set to "Home Theater"
Speaker Selection is set to "Home Theater"
Video / Audio confirmation HDMI
No audio form TV (Video is present) (Power ON / Standby Pass Through)
1) HDMI audio setting checking
i) Check TV Speaker selection setting
ii) Check Player Audio output is set to "ON"
Check TV Menu (Viera Menu Link foir Panasonic TV)
Check Player Setup Menu
Speaker Selection is set to "TV"
HDMI Audio Output setting is set to "ON"
Video / Audio confirmation HDMI
No video and audio from TV
Audio present from set speakers)
1) HDMI Output Voltage Checking
i) +5V supply to TV : HDMI_OUT_+5V
Check TU1200 (Pin 18) , LB1203, IC1200 (Pin4)
+5V Supply is present
2) Hot Plug Voltage checking
i) Hot Plug voltage from TV
Check TU1200 (Pin 19) , IC1000 (Pin 41)
+5V Supply is present
3) Parts availability and solderbility condition
i) HDMI Output +5V Regulator
ii) HDMI Output Connector
iii) HDMI Output Common-Mode Choke
iv) TMDS Output swing amplitude control resistor
Check IC1200
Check TU1200
Check L1200, L1201
Check R1001
No missing and all pins fully soldered. No Short.
All pins fully soldered. No Short.
No missing and all pins fully soldered. No Short. There is connections between IC1000 and TU1200
No missing and all pins fully soldered. No Short.


Audio confirmation
Sound skip from front speaker (Bluetooth input)
No sound from front speaker (Bluetooth input)
BT LED blinks quickly then becomes steady (PAIRING OK)
BT LED does not blink quickly/no change (PAIRING FAILED)
Unable to view HTB in list of BT devices in external BT device
Check the radio wave interference of other wireless equipment (cordless phone, microwave oven, WiFi, other BT devices).
Check the connection to front speaker
Check BT module connection to main board
Place subwoofer & other wireless equipment more than 2 meters away from main unit
Check Main board (Micon/DSP & Digital Amplifier Circuit)--> Main board change
Check Main board CN2003(1) and IC2203(1)-->3.3V;
Check L2003 or R2044,R2045
Check LB2014 and LB2015
Check USB Switch circuit --> IC2003(10)-->+5V
If all above are OK, replace BT module
Bluetooth (BT) Module
Subwoofer（SB-HWA）sound skip
Subwoofer（SB-HWA）no sound
Front speaker voice normal
Front speaker voice normal
Check the radio wave interference of other wireless equipment（2.4GHz band）
Check the main unit & subwoofer wireless connection (2-wire cable assembly)
Place subwoofer & other wireless equipment more than 2 meters away from main unit
Wireless link light checking (SB-HWA upper left front)
Wireless Link LED lights GREEN
Wireless Link LED lights RED
Check the connection from Digital Amplifier board to SW speaker
Check the wireless link
Check the pairing status
Failure of Digital Amplifier Circuit of the subwoofer.
Power cycle the main unit and subwoofer.
Redo pairing (refer to OI)
Failure of Transmitter board on Main Unit or Receiver board on Subwoofer
SubWoofer RF Receiver Module SB-HWA

10 Service Fixture & Tools

Prepare service tools before process service position.

Ref. No.	Part No.	Description	Remarks
SFT1	REXX1194	2P WIRE (SPK-SW DAMP)	SB-HWA370

11 Disassembly and Assembly Instructions

Caution Note:

- **This section describes the disassembly and/or assembly procedures for all major printed circuit boards & main components for the unit. (You may refer to the section of "Main components and P.C.B Locations" as described in the service manual)**
- **Before carrying out the disassembly process, please ensure all the safety precautions & procedures are followed.**
- **During the disassembly and/or assembly process, please handle with care as there may be chassis components with sharp edges.**
- **Avoid touching heatsinks due to its high temperature after prolong use. (See caution as described below)**

- **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 Main Unit (SU-HTB370)

- Disassembly of Top Cabinet
- Disassembly of SMPS and AC Inlet P.C.B.
- Replacement of Switching Regulator IC (IC5701)
- Replacement of Rectifier Diode (D5802)
- Disassembly of Main P.C.B. and Aux P.C.B.
- Disassembly of Rear Panel
- Disassembly of Front Panel Block
- Disassembly of Bluetooth Module P.C.B.
- Disassembly of Panel P.C.B.
- Disassembly of Digital Transmitter Module P.C.B.

Disassembly of Front Speaker Units Position

- Disassembly of Front Speaker Units in Bar position
- Disassembly of Front Speaker Unit in Standing position

Disassembly of Front Speaker (L/R) (SB-HTB570)

- Disassembly of Rear Cabinet Assembly
- Disassembly of Tweeter Speaker (SP1)
- Disassembly of Woofer Speaker (SP2)
- Replacement of the Speaker Wire Assembly

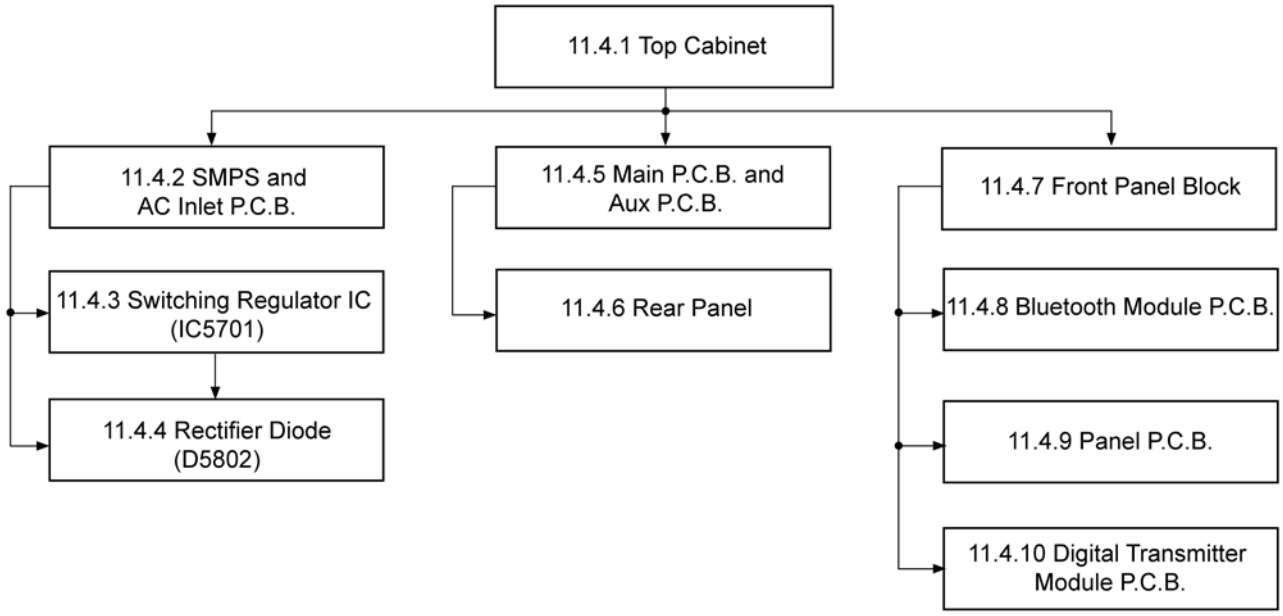
Disassembly of Active Subwoofer (SB-HWA370)

- Disassembly of Rear Panel Block
- Disassembly of Digital Receiver Module P.C.B.
- Disassembly of SW DAMP P.C.B.
- Replacement of Digital Amplifier IC (IC5200)
- Disassembly of Power Button P.C.B.
- Disassembly of SW SMPS and SW AC Inlet P.C.B.
- Replacement of Switching Regulator IC (IC5701)
- Replacement of Rectifier Diode (D5802)
- Disassembly of Bottom Panel Assembly
- Disassembly of Woofer Speaker (SP61)

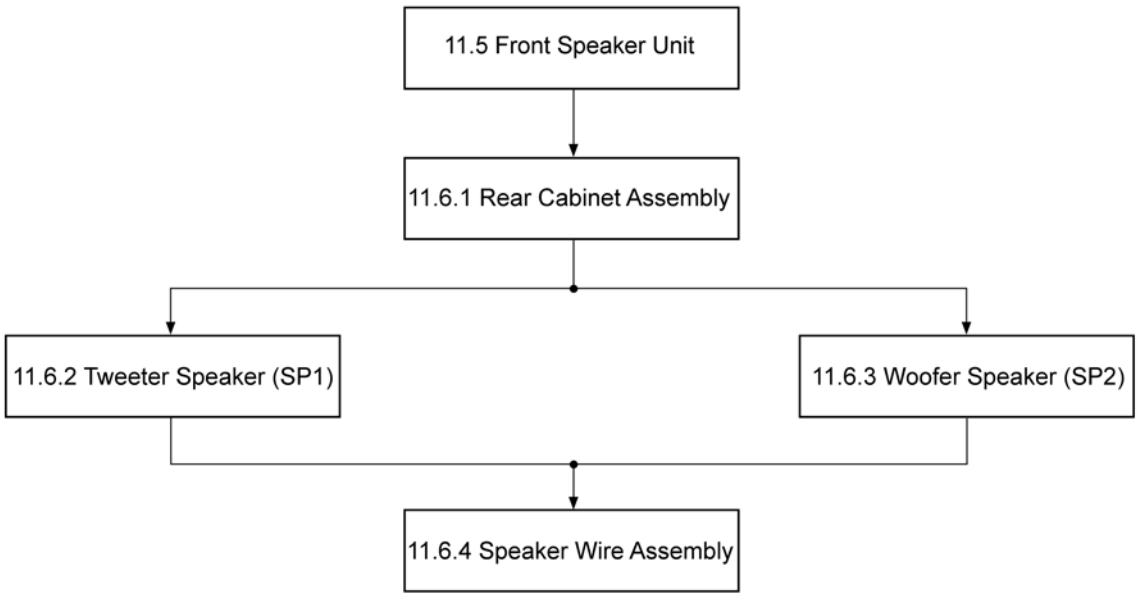
11.1. Disassembly flow chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.
To assemble the unit, reverse the steps shown in the chart below.

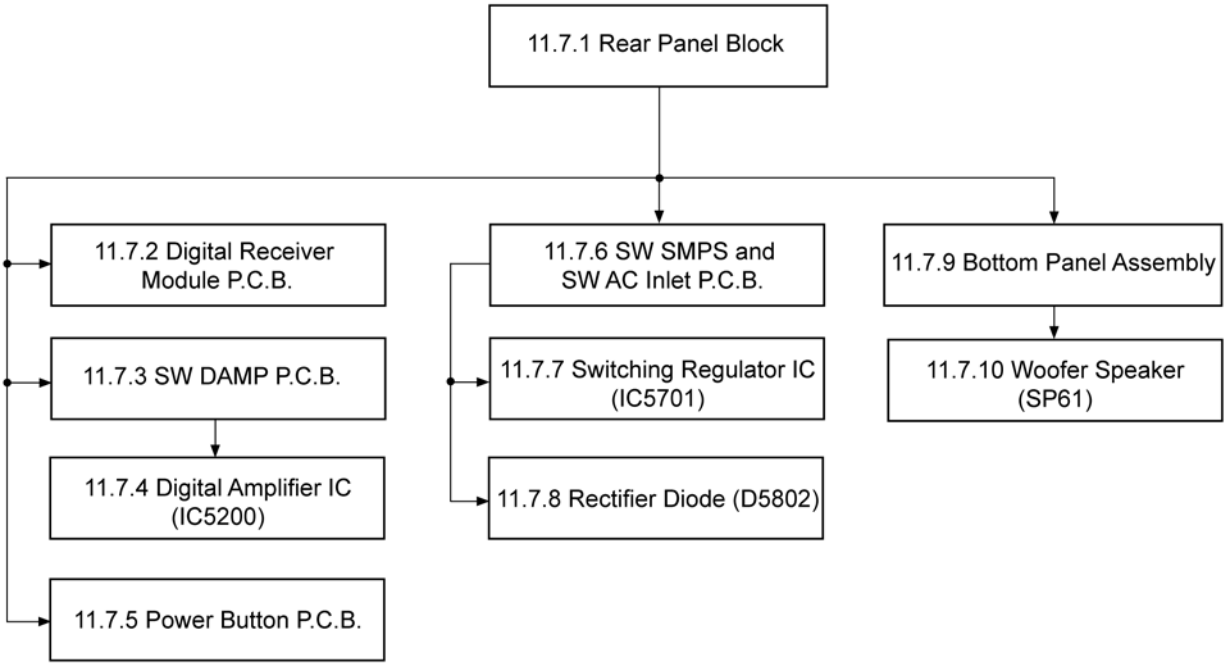
11.1.1. Main Unit (SU-HTB370)



11.1.2. Front Speakers (SB-HTB570)



11.1.3. Active Subwoofer (SB-HWA370)



11.2. Types of Screws

11.2.1. Main Unit (SU-HTB370)

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

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

ⓐ : RHD30007-K2J
ⓑ : RHD30119-S
ⓒ : RHD30172
ⓓ : RHD30102-1
ⓔ : RHD26046
ⓕ : RHD14129

11.2.2. Front Speakers (SB-HTB570)

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

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

ⓐ : XYN5+J14FJK
ⓑ : XTB3+10JFJK

11.2.3. Active Subwoofer (SB-HWA370)

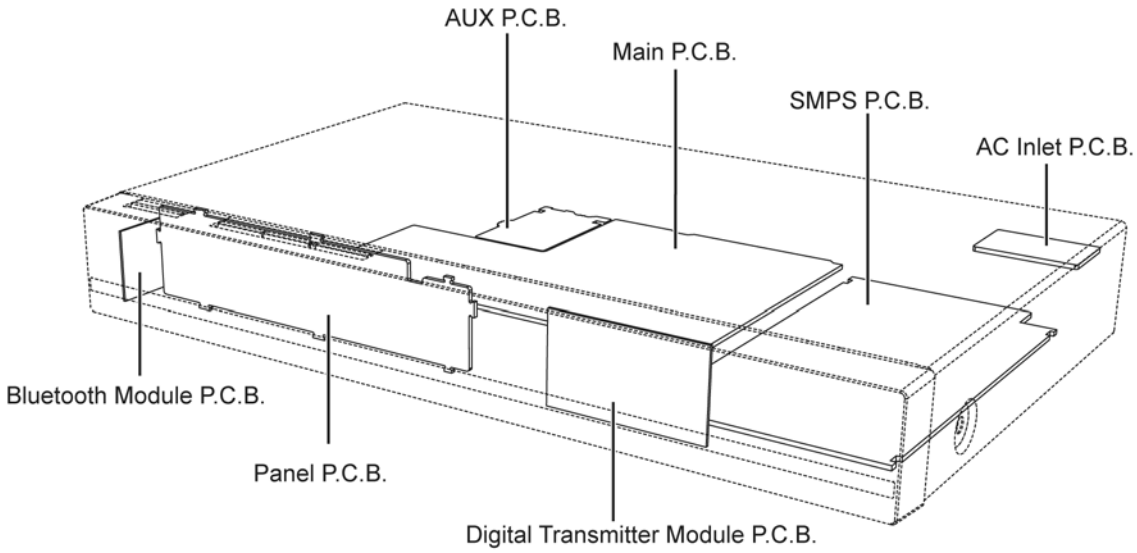
CAUTION NOTE:
Please use original screw and at correct locations.

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

ⓐ : XTB4x16AFJK
ⓑ : RHDX301002
ⓒ : RHD30102-1
ⓓ : XTB3+10JFJK

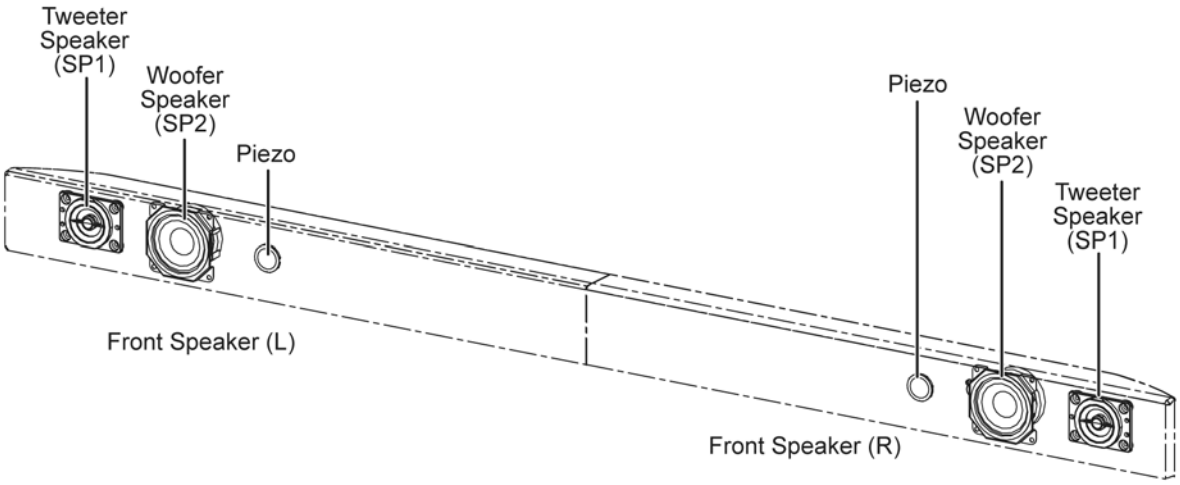
11.3. Main Parts Location Diagram

11.3.1. Main Unit (SU-HTB370)

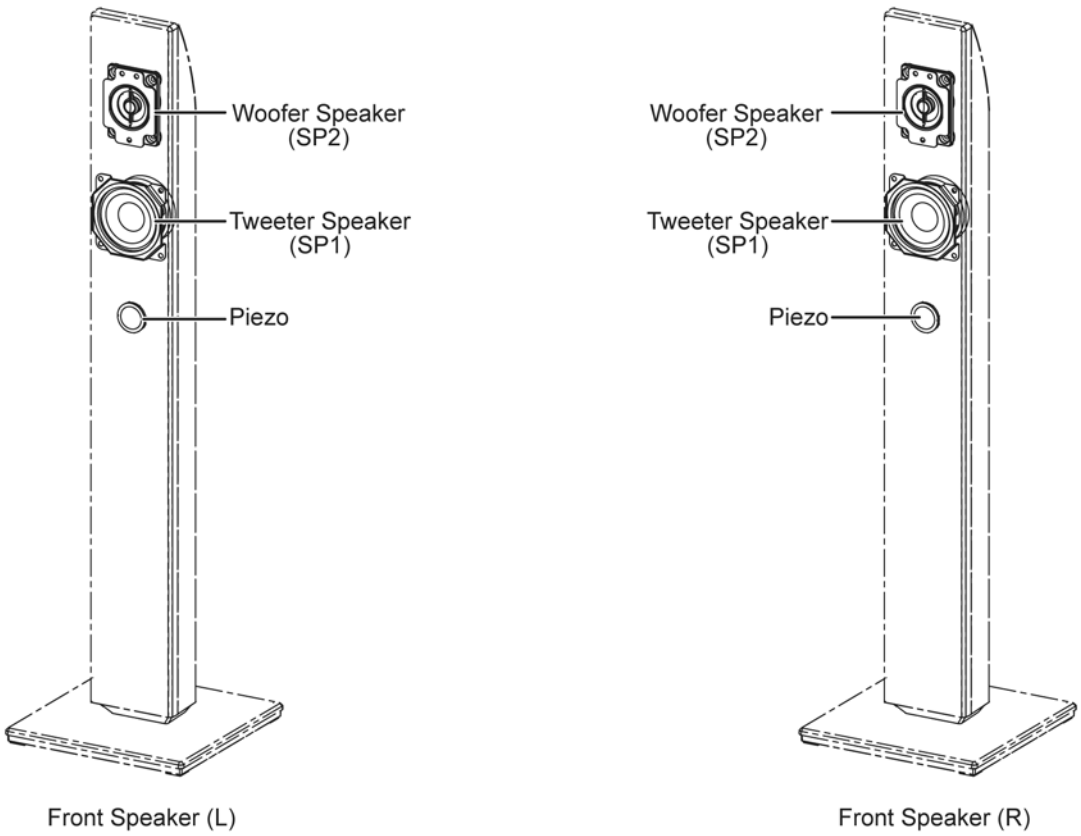


11.3.2. Front Speakers (SB-HTB570)

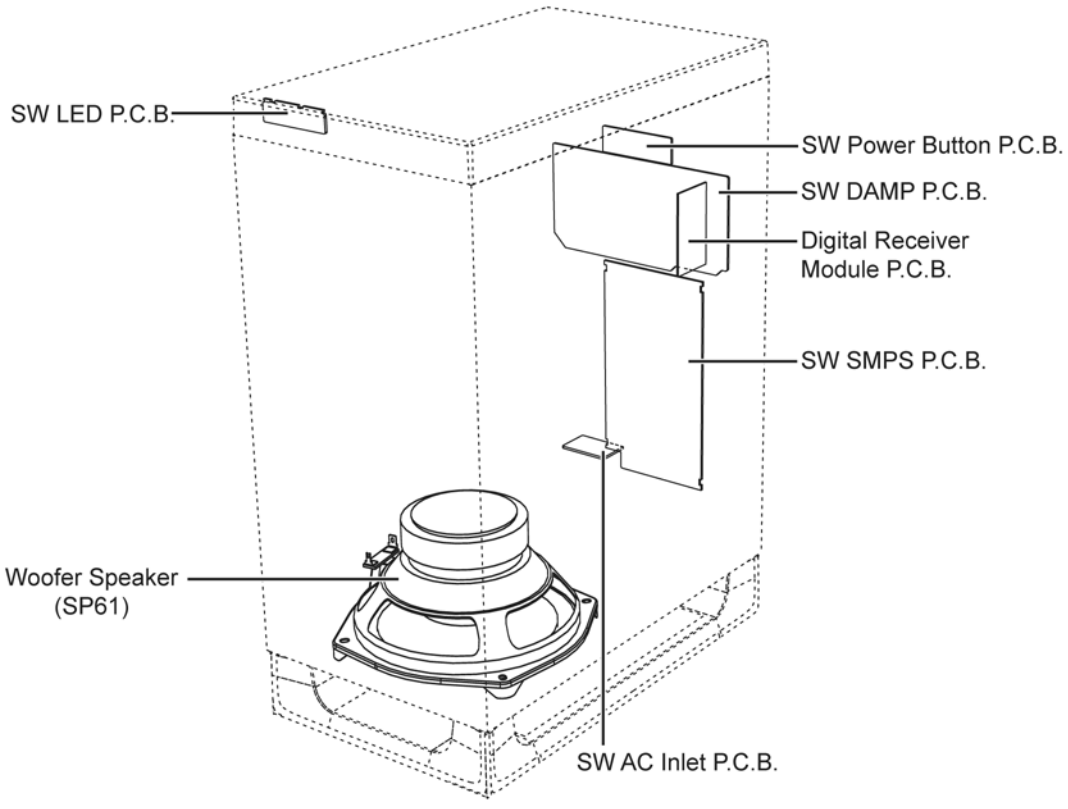
11.3.2.1. Bar Position



11.3.2.2. Standing Position



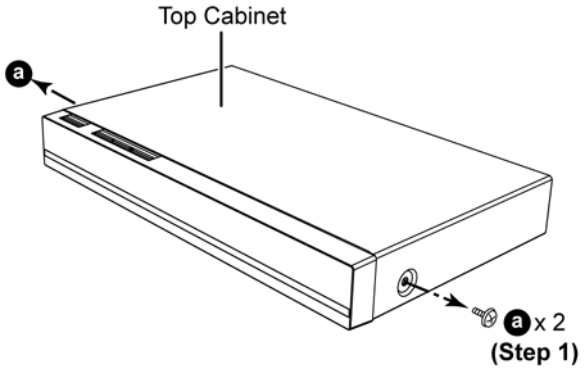
11.3.3. Active Subwoofer (SB-HWA370)



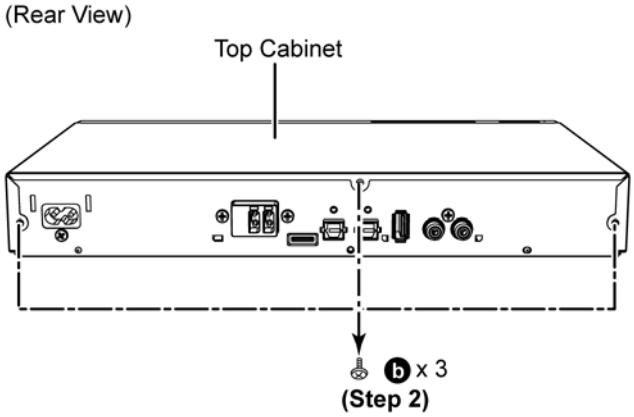
11.4. Disassembly of Main Unit (SU-HTB370)

11.4.1. Disassembly of Top Cabinet

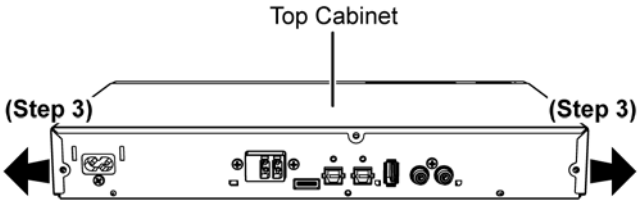
Step 1 : Remove 2 screws.



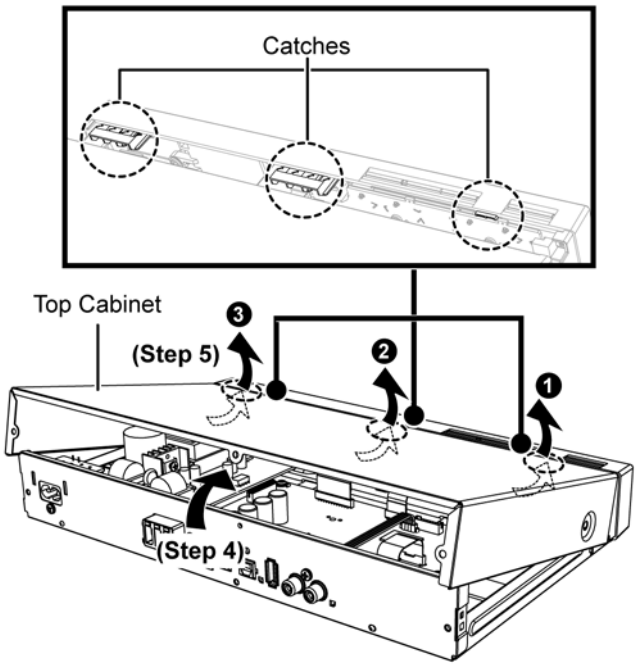
Step 2 : Remove 3 screws.



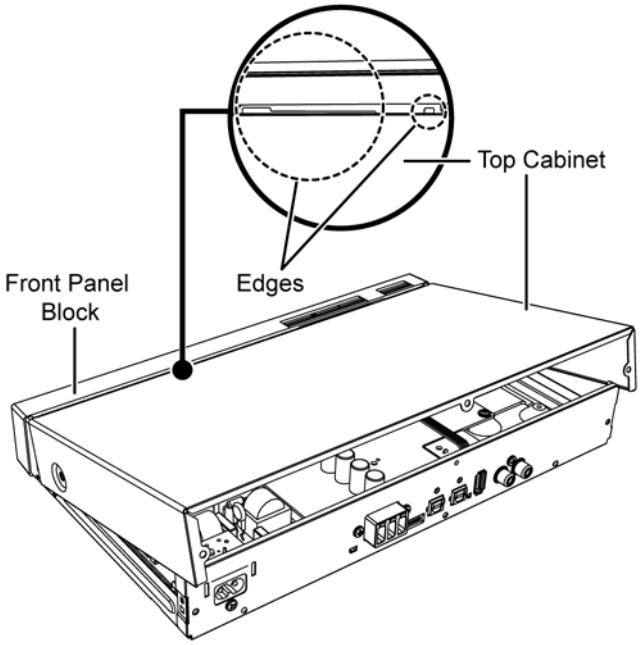
Step 3 : Slightly pull outwards the Top Cabinet for both sides.



Step 4 : Slightly lift up the Top Cabinet as shown.
Step 5 : From within the Top Cabinet, gently push upwards to release the catches in sequence as shown.



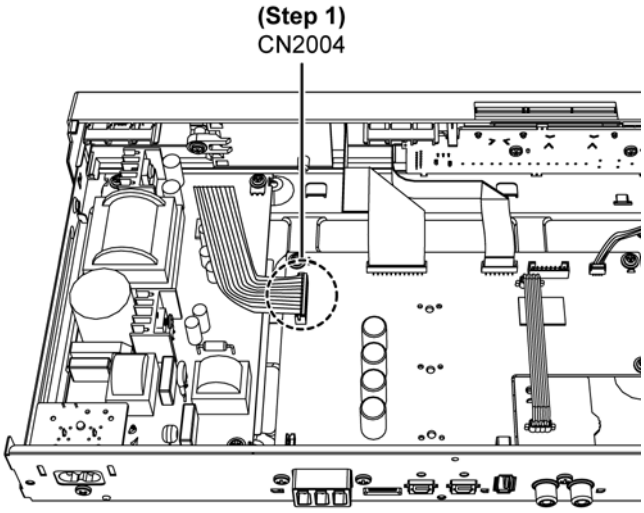
Caution: During assembling, ensure that the edges of Top Cabinet is inserted properly into the Front Panel Block.



11.4.2. Disassembly of SMPS and AC Inlet P.C.B.

• Refer to “Disassembly of Top Cabinet”.

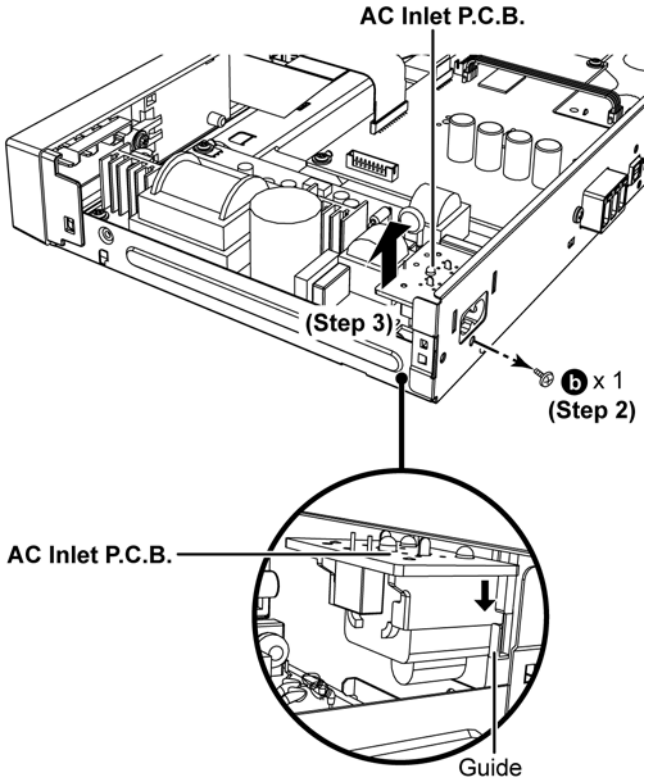
Step 1 : Detach 10P Cable Wire at the connector (CN2004) on the Main P.C.B..



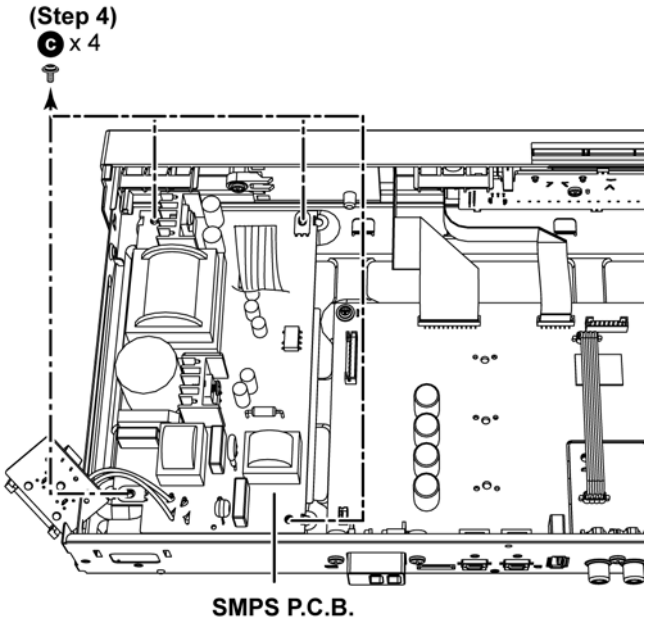
Step 2 : Remove 1 screw.

Step 3 : Lift up the AC Inlet P.C.B..

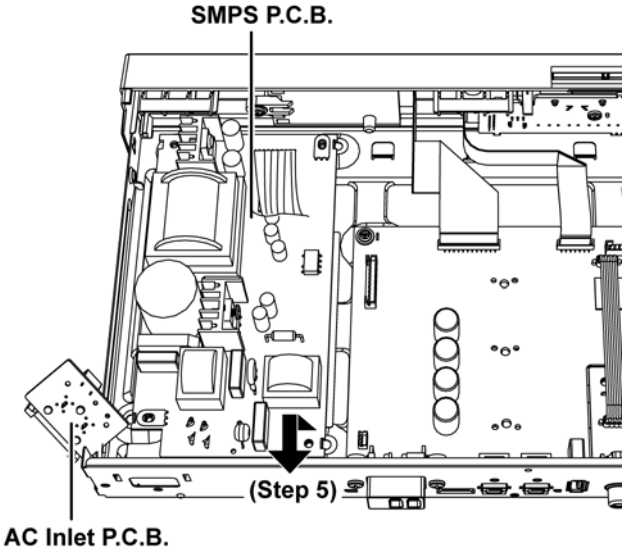
Caution: During assembling, ensure that the AC Inlet P.C.B. is inserted properly into the guides at the Rear Panel.



Step 4 : Remove 4 screws.



Step 5 : Slightly lift up to remove the SMPS and AC Inlet P.C.B..



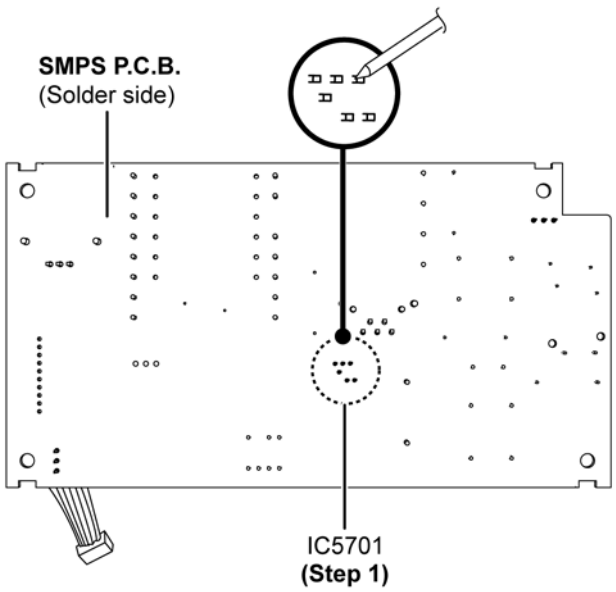
11.4.3. Replacement of Switching Regulator IC (IC5701)

• Refer to “Disassembly of SMPS and AC Inlet P.C.B.”.

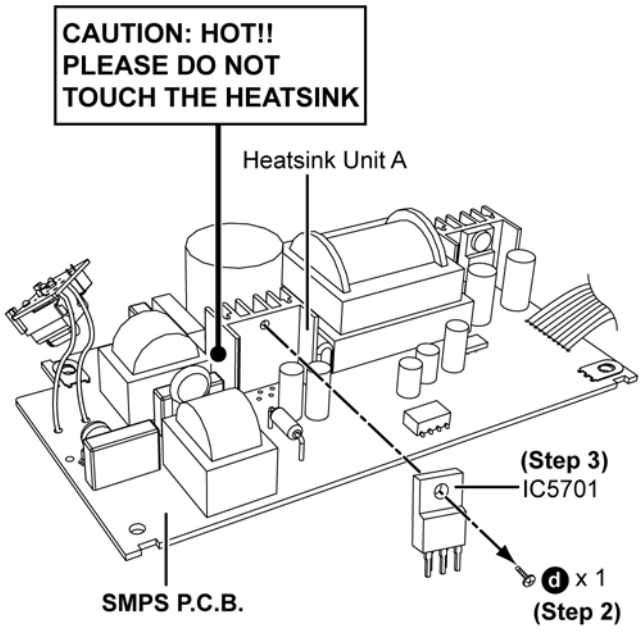
11.4.3.1. Disassembly of Switching Regulator IC (IC5701)

Caution: Handle the SMPS P.C.B. with caution. Avoid touching the Heatsink Unit A due to it’s high temperature after prolonged use. Touching it may lead to injuries.

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

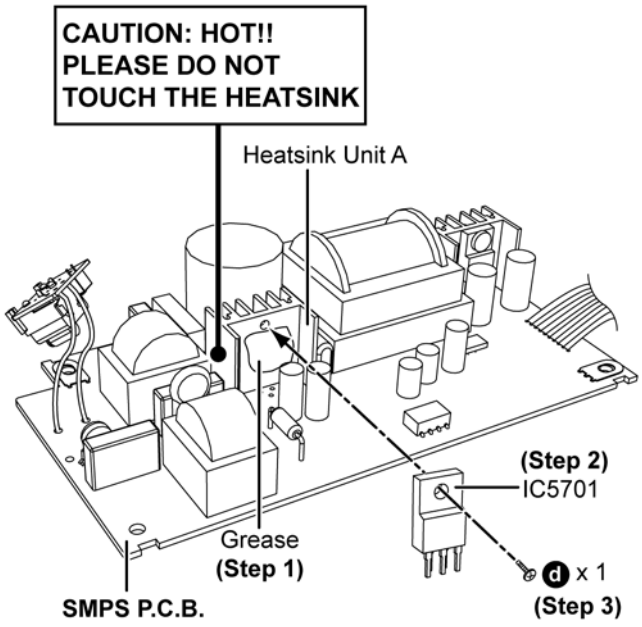


Step 2 : Remove 1 screw.
Step 3 : Remove the Switching Regulator IC (IC5701) from the Heatsink Unit A.

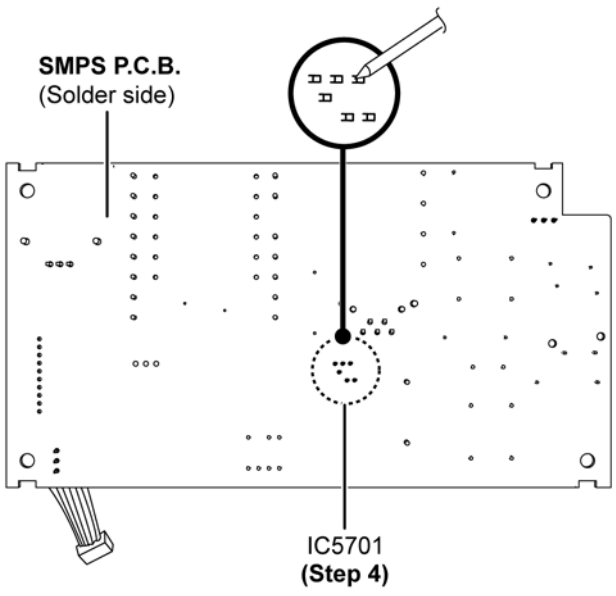


11.4.3.2. Assembly of Switching Regulator IC (IC5701)

Step 1 : Apply grease on the Heatsink Unit A.
Step 2 : Fix the Switching Regulator IC (IC5701) to the SMPS P.C.B..
Caution: Ensure the pins of Switching Regulator IC (IC5701) are inserted and seated properly on the SMPS P.C.B..
Step 3 : Fix the Switching Regulator IC (IC5701) onto the Heatsink Unit A with a screw.
Caution: Ensure the Switching Regulator IC (IC5701) is tightly screwed to the Heatsink Unit A.



Step 4 : Solder the pins of Switching Regulator IC(IC5701) on the solder side of SMPS P.C.B..



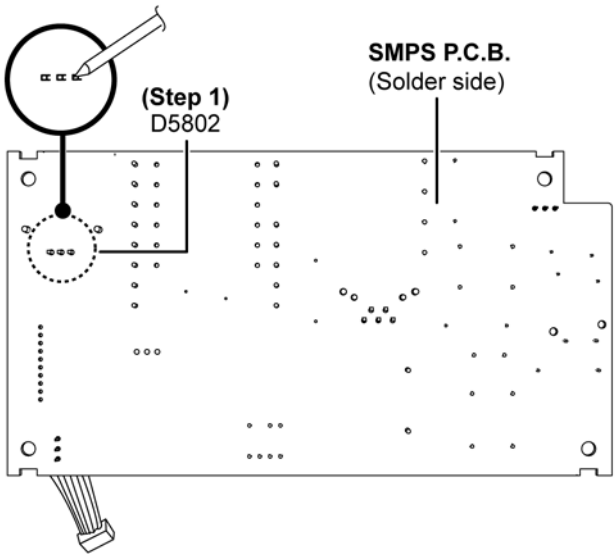
11.4.4. Replacement of Rectifier Diode (D5802)

• Refer to “Disassembly of SMPS and AC Inlet P.C.B.”.

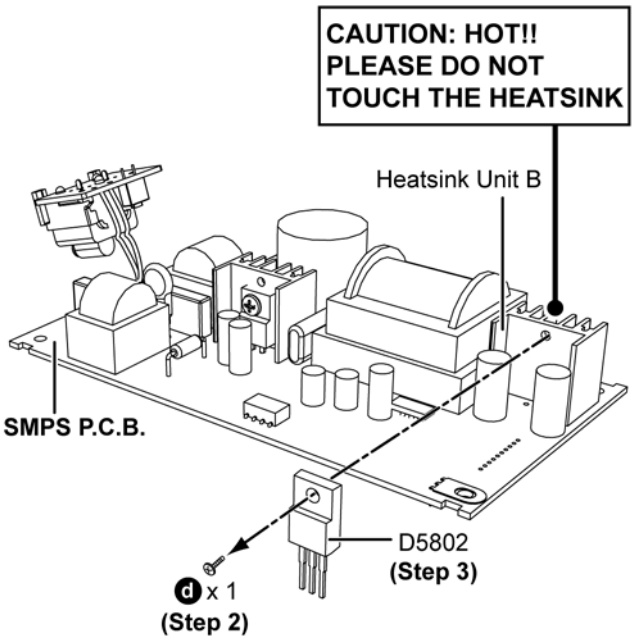
11.4.4.1. Disassembly of Rectifier Diode (D5802)

Caution: Handle the SMPS P.C.B. with caution. Avoid touching the Heatsink Unit B due to it’s high temperature after prolonged use. Touching it may lead to injuries.

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

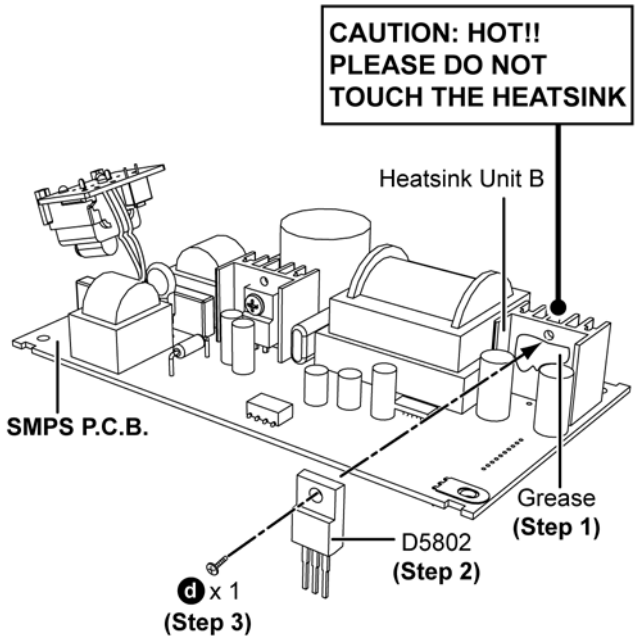


Step 2 : Remove 1 screw.
Step 3 : Remove the Rectifier Diode (D5802) from the Heatsink Unit B.

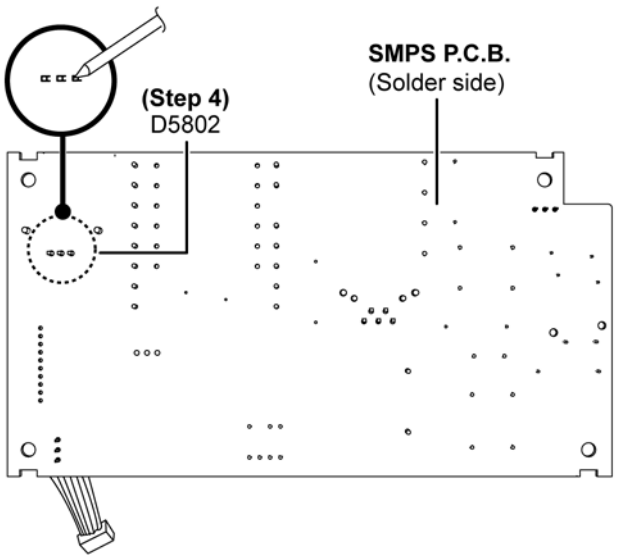


11.4.4.2. Assembly of Rectifier Diode (D5802)

Step 1 : Apply grease on the Heatsink Unit B.
Step 2 : Fix the Rectifier Diode (D5802) onto the SMPS P.C.B..
Caution: Ensure the pins of Rectifier Diode (D5802) are inserted and seated properly on the SMPS P.C.B..
Step 3 : Fix the Rectifier Diode (D5802) onto the Heatsink Unit B with a screw.
Caution: Ensure the Rectifier Diode (D5802) is tightly screwed to Heatsink Unit B.



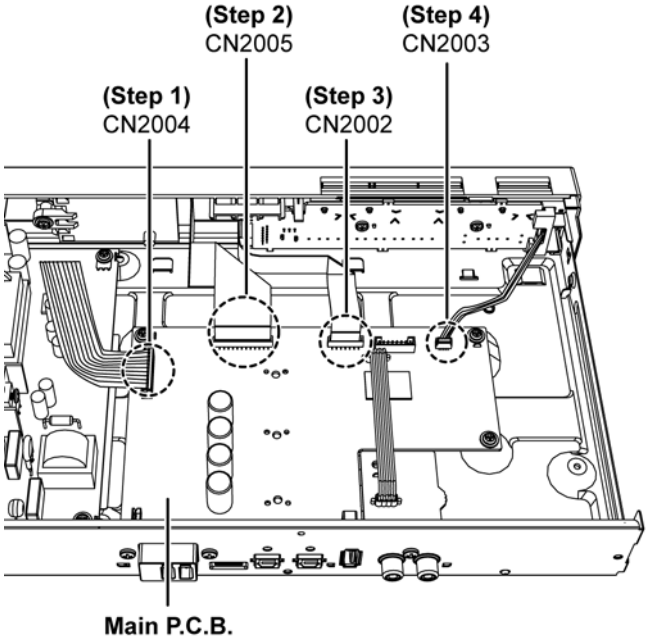
Step 4 : Solder the pins of the Rectifier Diode (D5802) on the solder side of SMPS P.C.B..



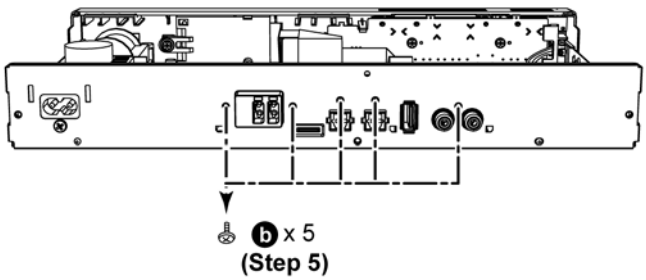
11.4.5. Disassembly of Main P.C.B. and Aux P.C.B.

• Refer to “Disassembly of Top Cabinet”.

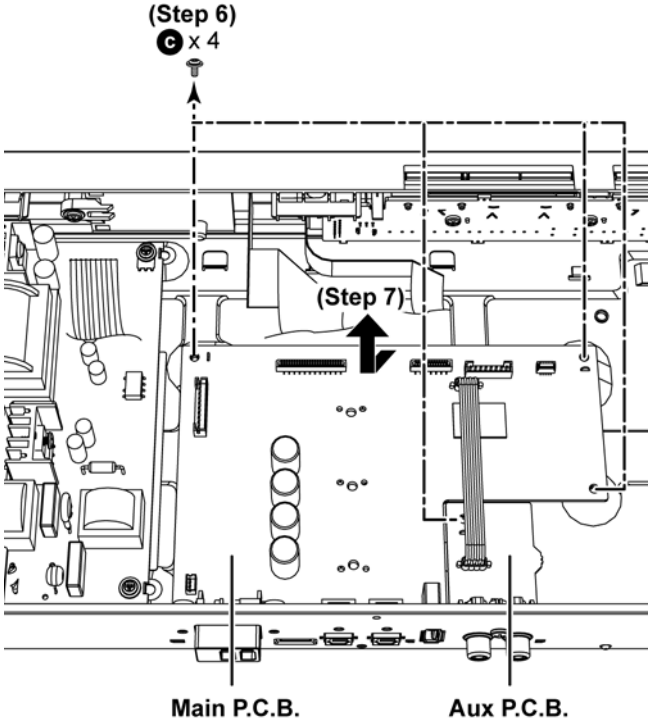
Step 1 : Detach 10P Cable Wire at the connector (CN2004) on the Main P.C.B..
Step 2 : Detach 24P FFC at the connector (CN2005) on the Main P.C.B..
Step 3 : Detach 13P FFC at the connector (CN2002) on the Main P.C.B..
Step 4 : Detach 5P Wire at the connector (CN2003) on the Main P.C.B..



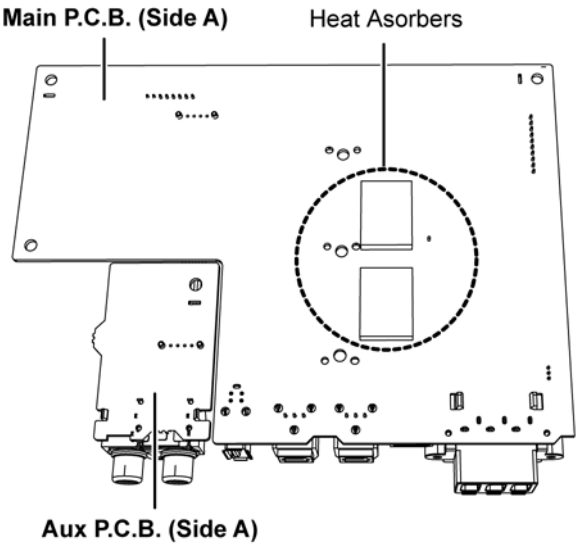
Step 5 : Remove 5 screws.



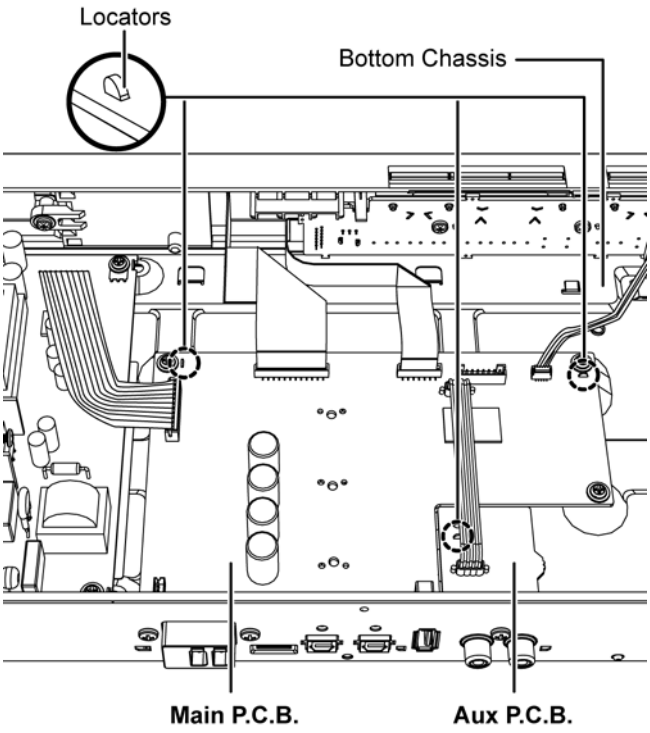
Step 6 : Remove 4 screws.
Step 7 : Slightly lift up to remove the Main P.C.B. and Aux P.C.B..



Caution 1 : During assembling, ensure that the 2 Heat Asorbers are placed properly onto the the Main P.C.B. (Side A).



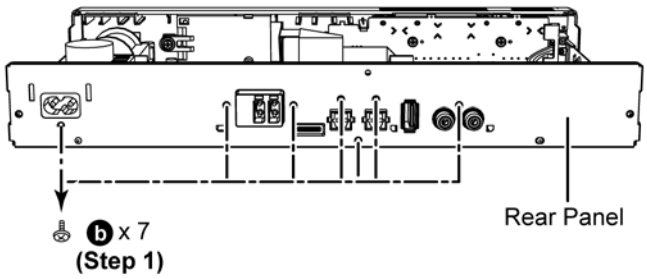
Caution 2 : During assembling, ensure that the Main P.C.B. and Aux P.C.B. is inserted and seated properly onto the 2 locators of the Bottom Chassis.



11.4.6. Disassembly of Rear Panel

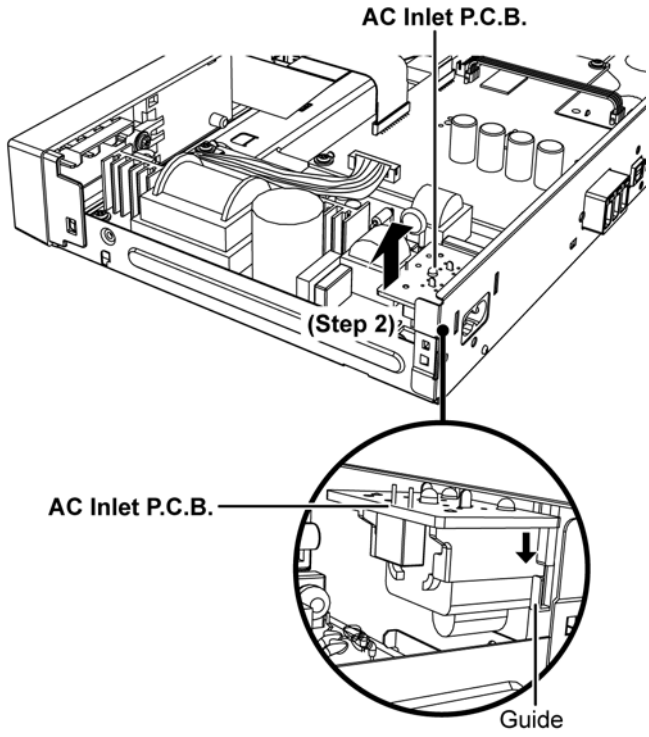
- Refer to “Disassembly of Top Cabinet”.

Step 1 : Remove 7 screws.



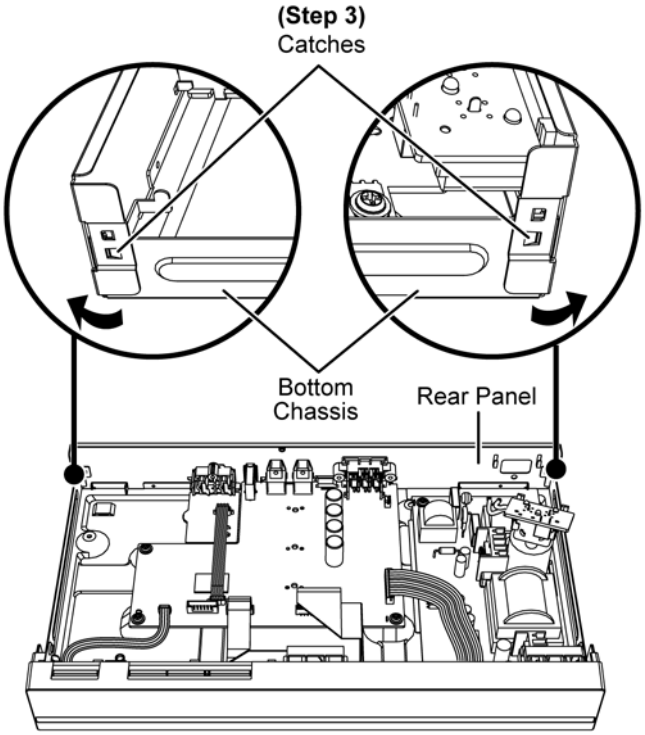
Step 2 : Lift up the AC Inlet P.C.B..

Caution: During assembling, ensure that the AC Inlet P.C.B. is inserted properly into the guide.

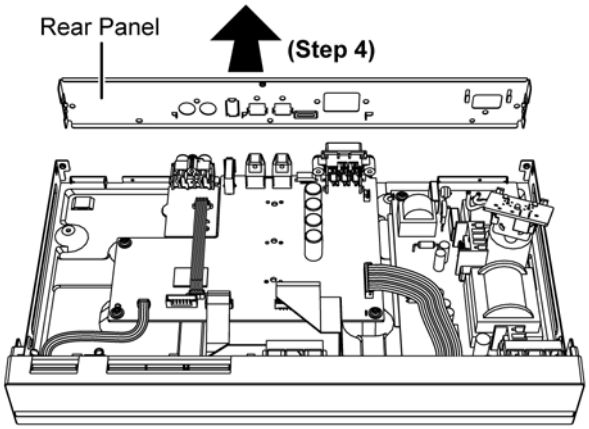


Step 3 : Release the catches on the both side of the Rear Panel.

Caution: During assembling, ensure that the Rear Panel is catched properly onto the Bottom Chassis.



Step 4 : Remove the Rear Panel.



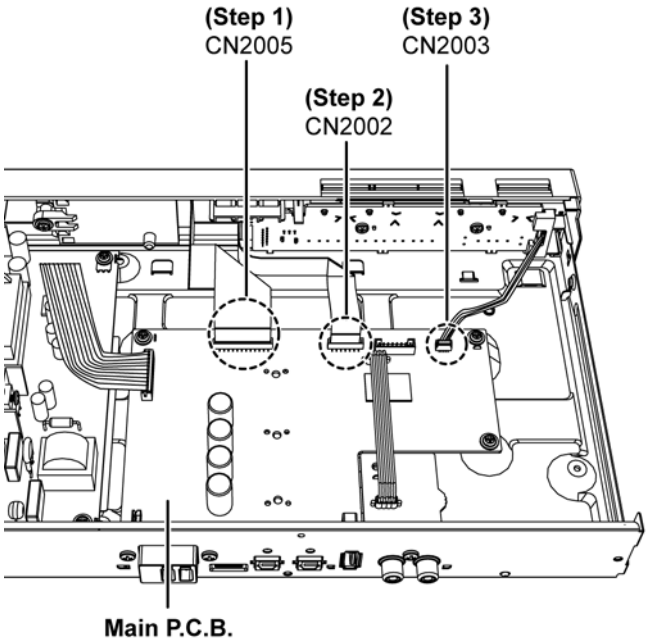
11.4.7. Disassembly of Front Panel Block

• Refer to “Disassembly of Top Cabinet”.

Step 1 : Detach 24P FFC at the connector (CN2005) on the Main P.C.B..

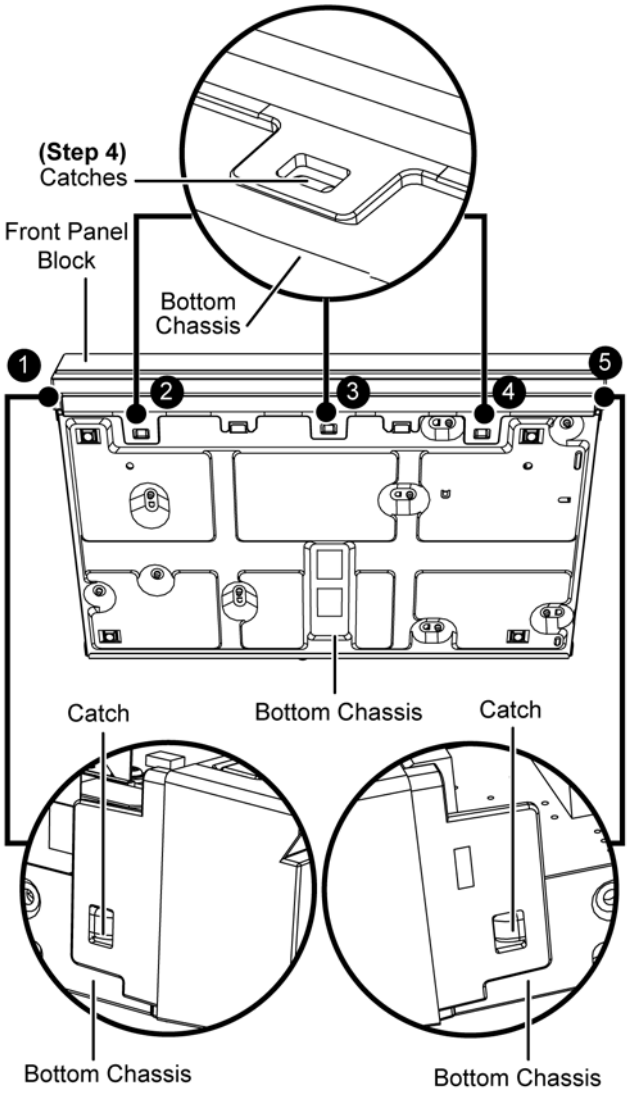
Step 2 : Detach 13P FFC at the connector (CN2002) on the Main P.C.B..

Step 3 : Detach 5P Wire at the connector (CN2003) on the Main P.C.B..

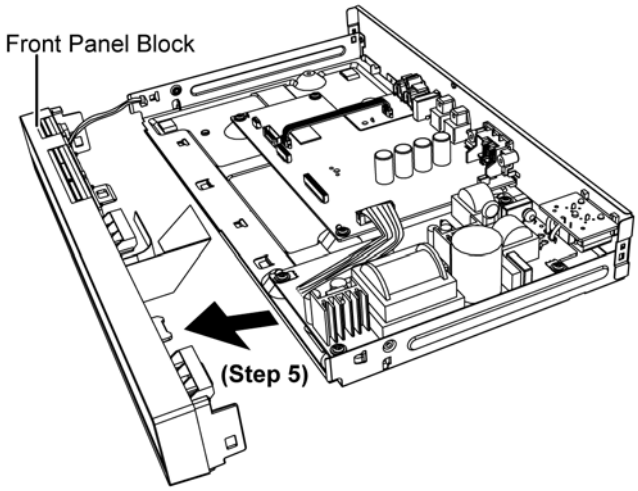


Step 4 : Release the catches in sequence (1-5) as shown.

Caution: During assembling, ensure that the Front Panel Block is catched and inserted properly onto the Bottom Chassis.



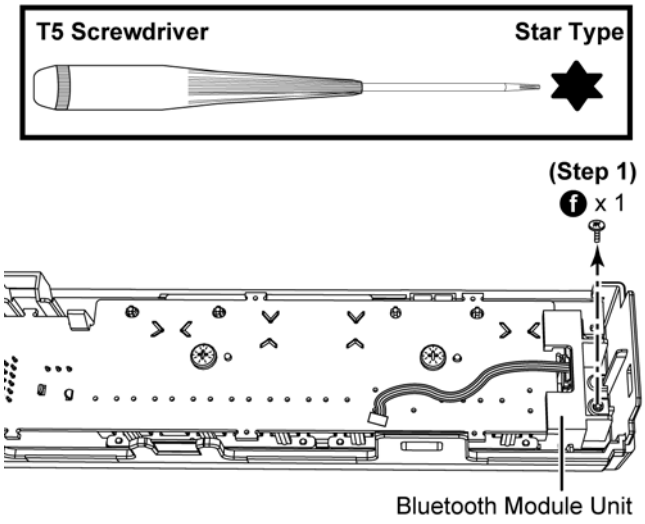
Step 5 : Remove the Front Panel Block.



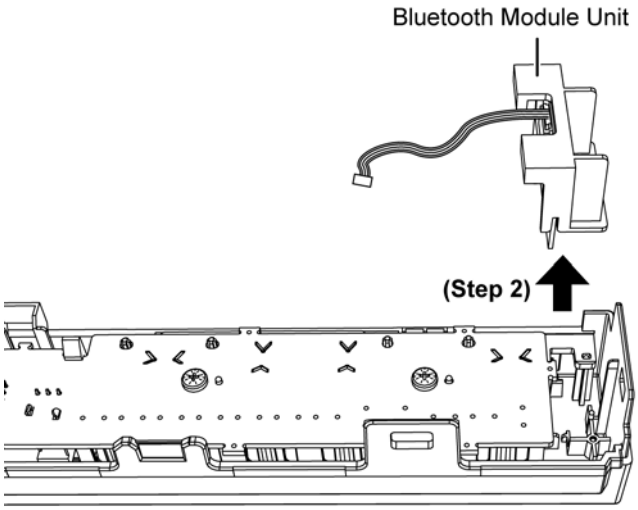
11.4.8. Disassembly of Bluetooth Module P.C.B.

- Refer to “Disassembly of Top Cabinet”.
- Refer to “Disassembly of Front Panel Block”.

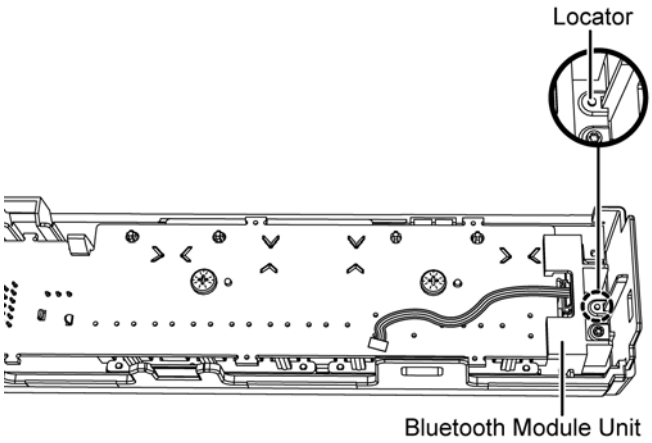
Step 1 : Remove 1 screw by using T5 Screwdriver.



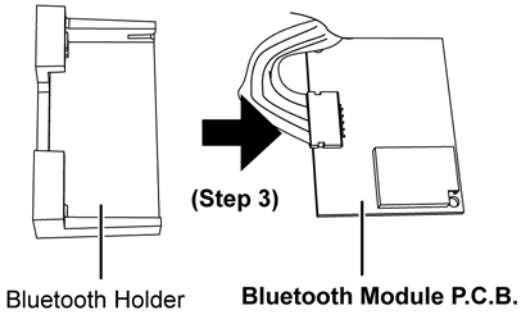
Step 2 : Remove the Bluetooth Module Unit.



Caution : During assembling, ensure that the Bluetooth Module Unit is seated properly onto the locator.



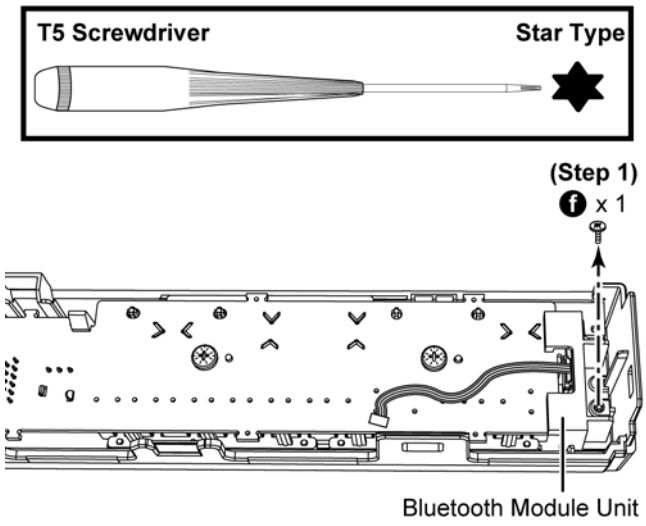
Step 3 : Remove the Bluetooth Module P.C.B. from the Bluetooth Holder.



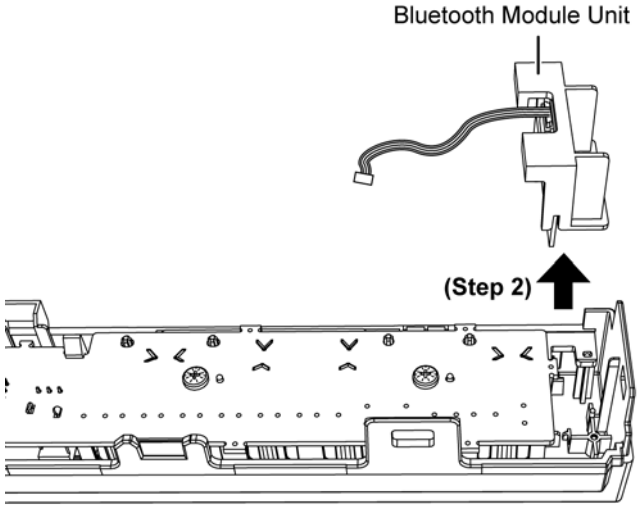
11.4.9. Disassembly of Panel P.C.B.

- Refer to “Disassembly of Top Cabinet”.
- Refer to “Disassembly of Front Panel Block”.

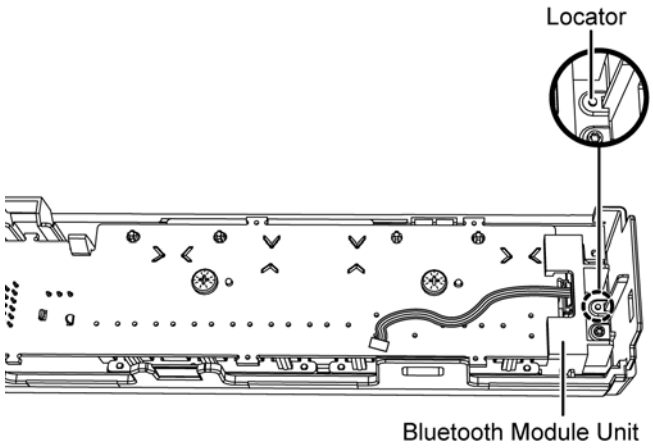
Step 1 : Remove 1 screw by using T5 Screwdriver.



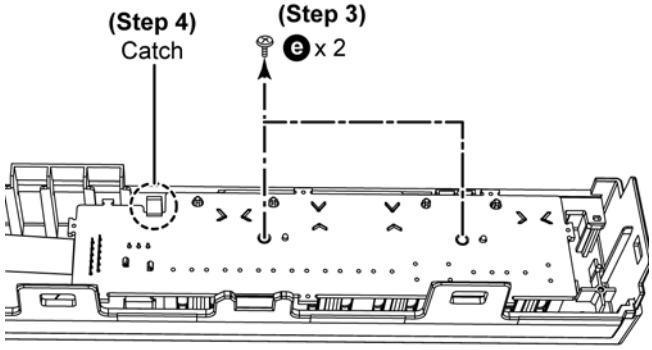
Step 2 : Remove the Bluetooth Module Unit.



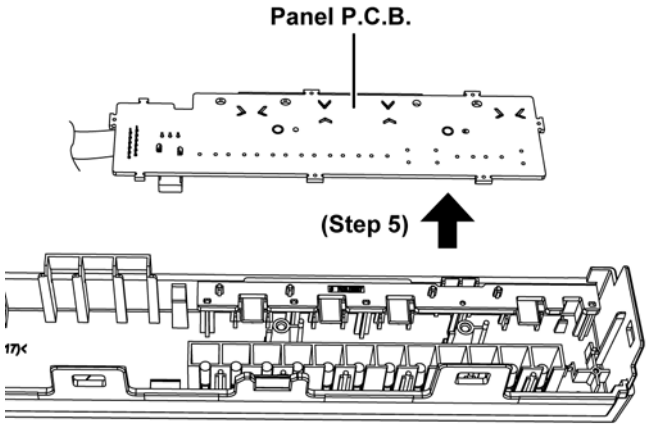
Caution: During assembling, ensure that the Bluetooth Module Unit is seated properly onto the locator.



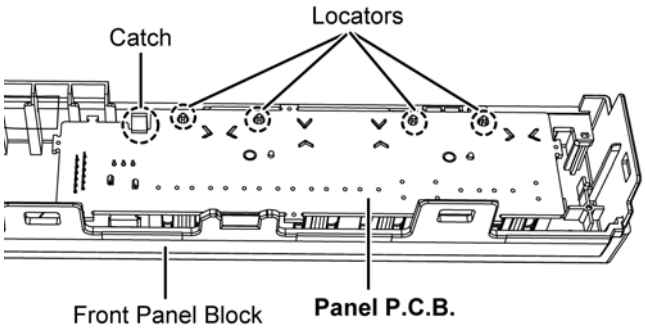
Step 3 : Remove 2 screws.
Step 4 : Release the catch.



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



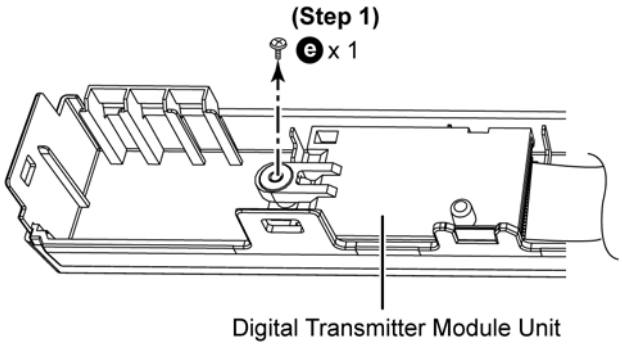
Caution: During assembling, ensure that the Panel P.C.B. is catched and seated properly onto the locators of the Front Panel Block.



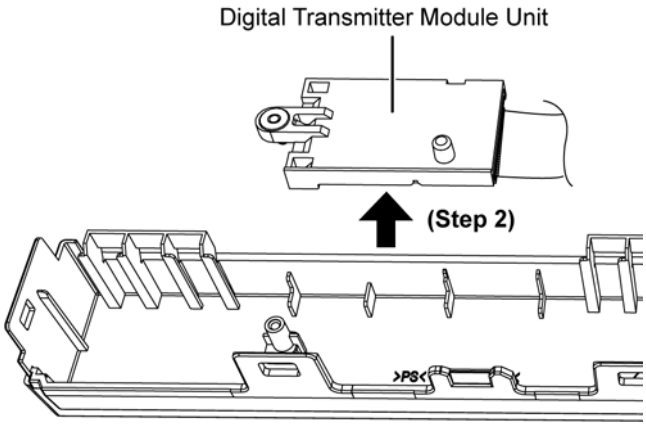
11.4.10. Disassembly of Digital Transmitter Module P.C.B.

- Refer to “Disassembly of Top Cabinet”.
- Refer to “Disassembly of Front Panel Block”.

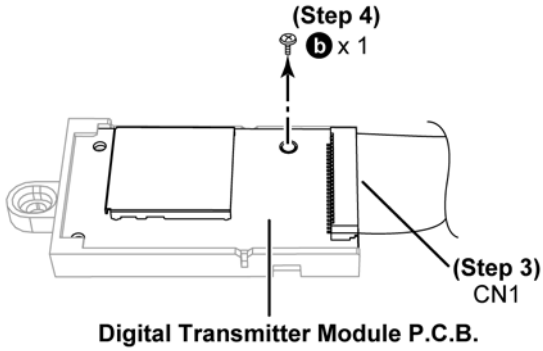
Step 1 : Remove 1 screw.



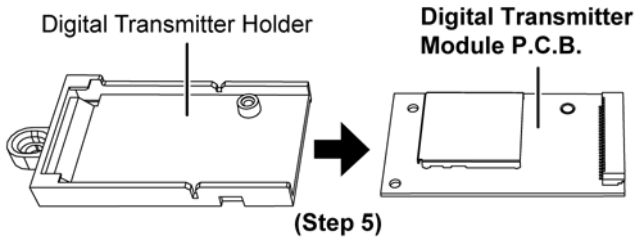
Step 2 : Remove the Digital Transmitter Module Unit.



Step 3 : Detach 24P FFC at the connector (CN1) on the Digital Transmitter Module P.C.B..
Step 4 : Remove 1 screw.



Step 5 : Remove the Digital Transmitter Module P.C.B. from the Digital Transmitter Holder.



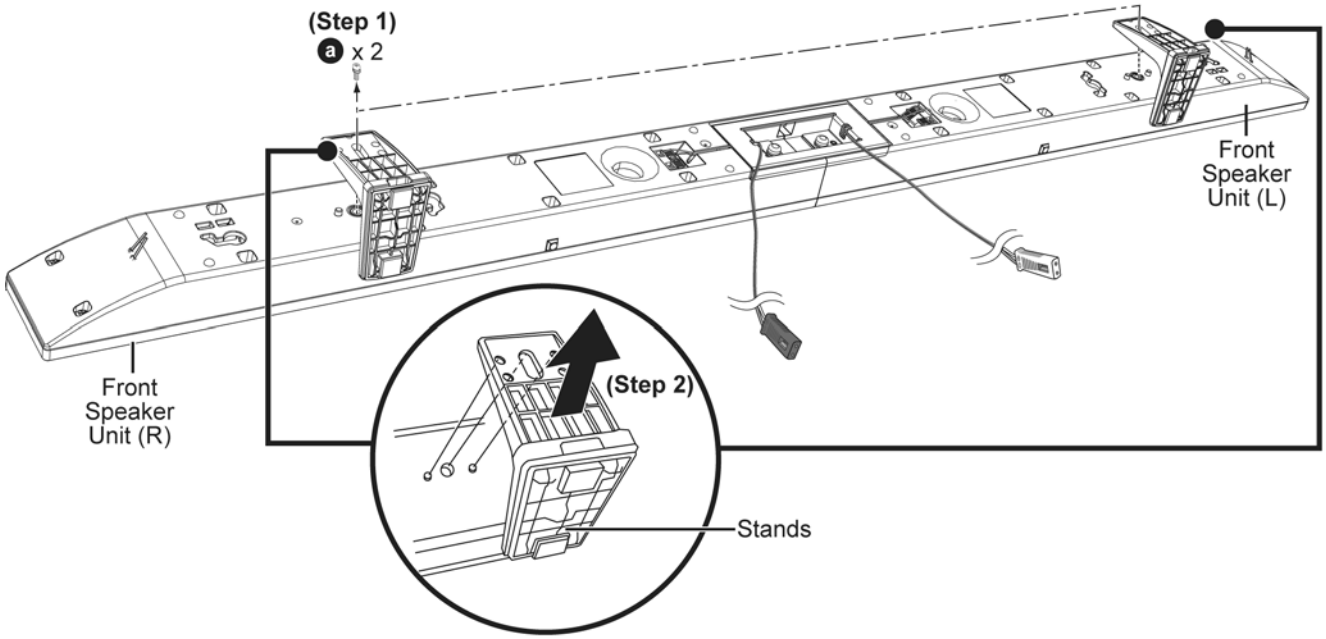
11.5. Disassembly of Front Speaker Units Position

11.5.1. Disassembly of Front Speaker Units in Bar position

• **Front Speaker Unit with Stands**

Step 1 : Remove 2 screws.

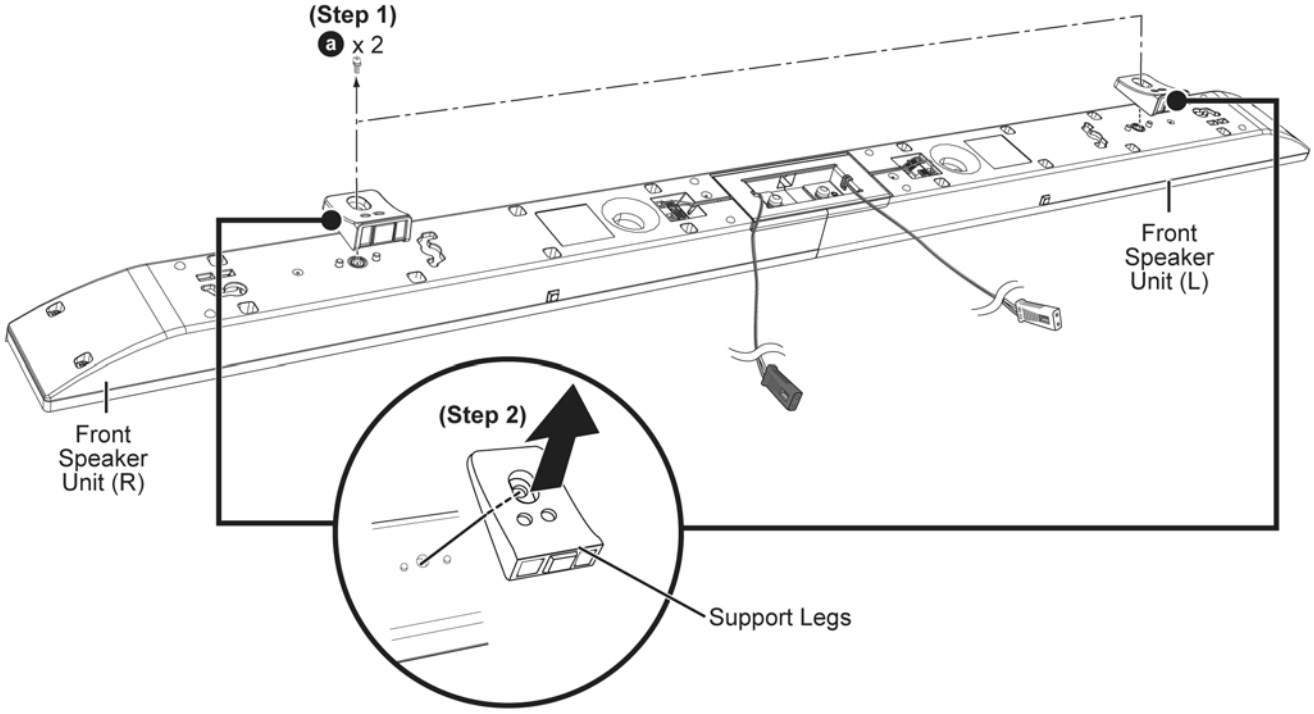
Step 2 : Remove 2 Stands.



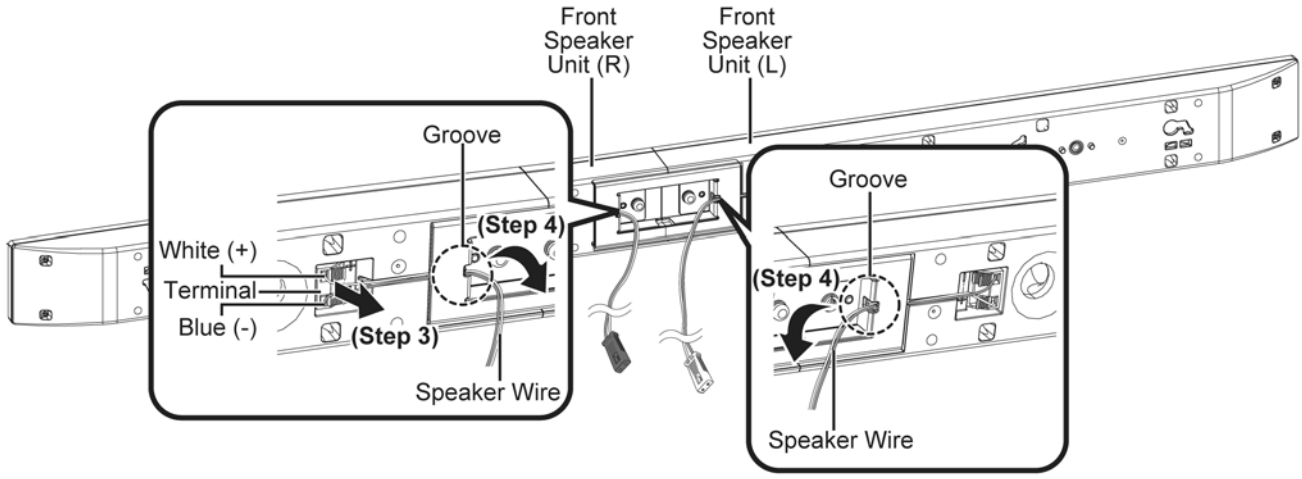
• **Front Speaker Unit with Support Legs**

Step 1 : Remove 2 screws.

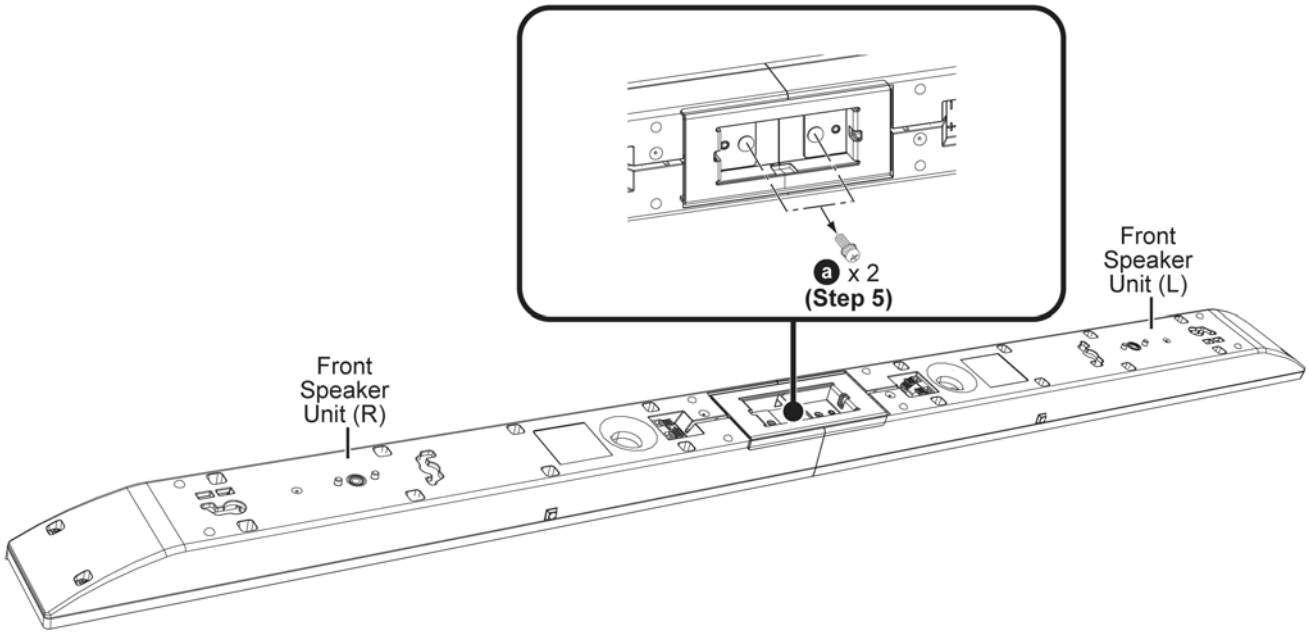
Step 2 : Remove 2 Support Legs.



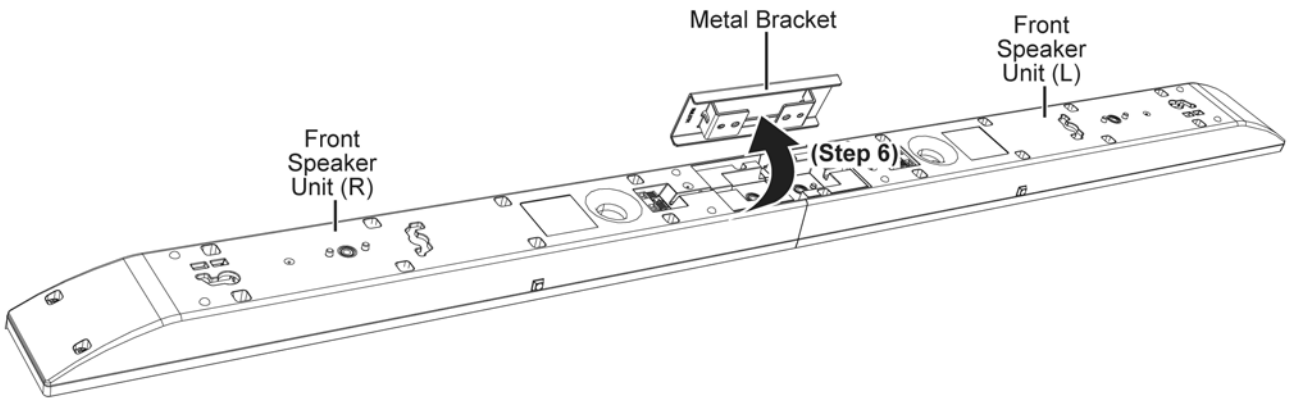
Step 3 : Release the White (+) and Blue (-) Speaker Wire from the Terminal.
Step 4 : Release the Speaker Wire through the groove.



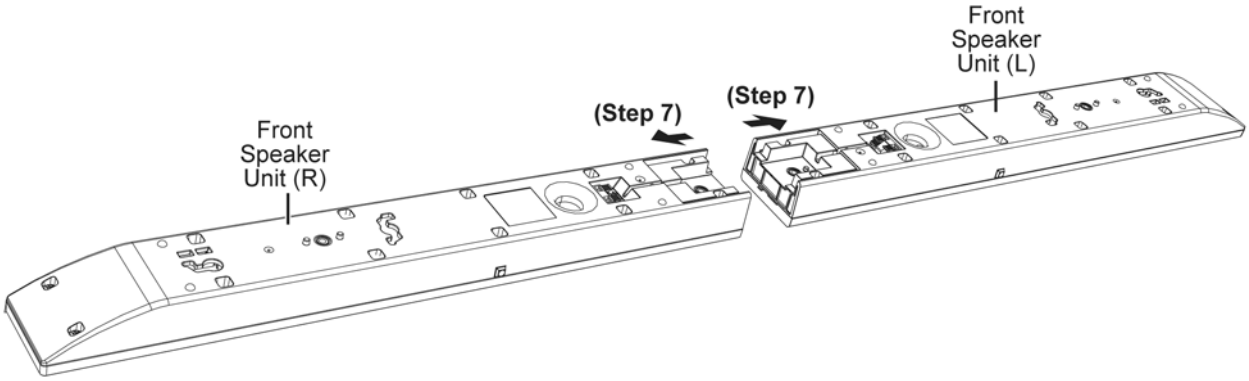
Step 5 : Remove 2 screws.



Step 6 : Lift up and remove the Metal Bracket.



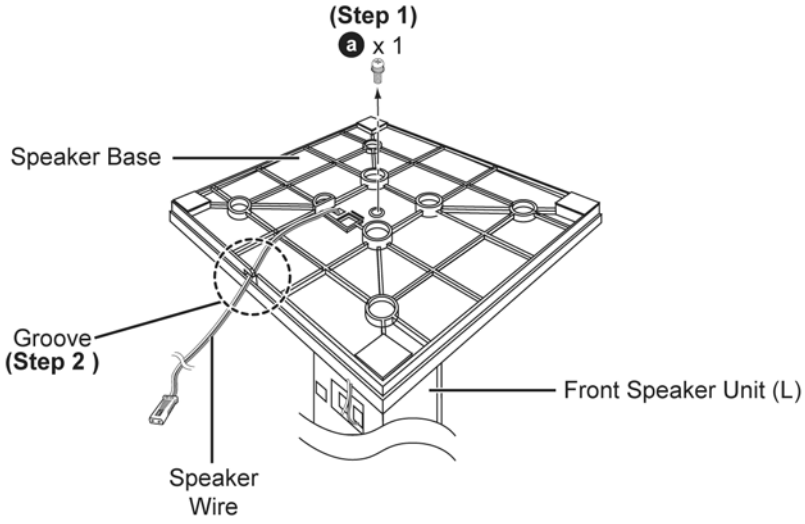
Step 7 : Detach the Front Speaker Unit (L) and (R).



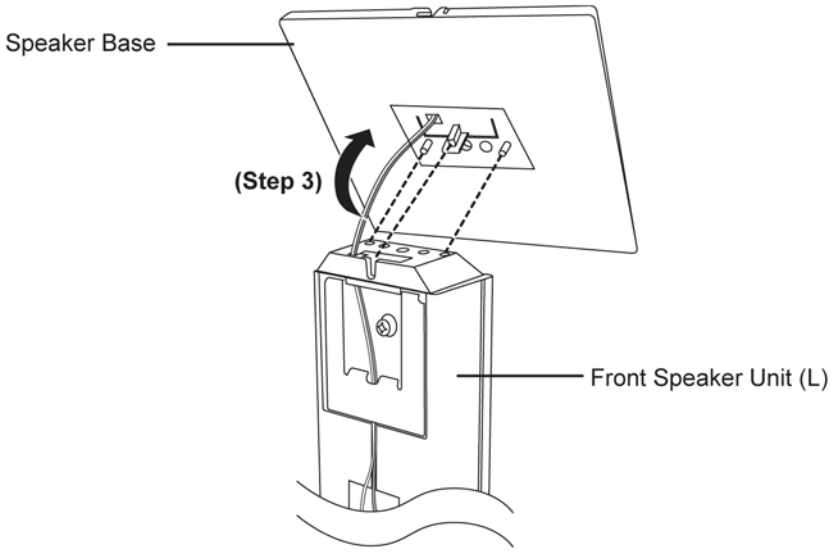
11.5.2. Disassembly of Front Speaker Unit in Standing position

Note : Front Speaker Unit (L) and (R) have the same mechanical structure. Therefore only the disassembly method for Front Speaker Unit (L) will be described in this section.

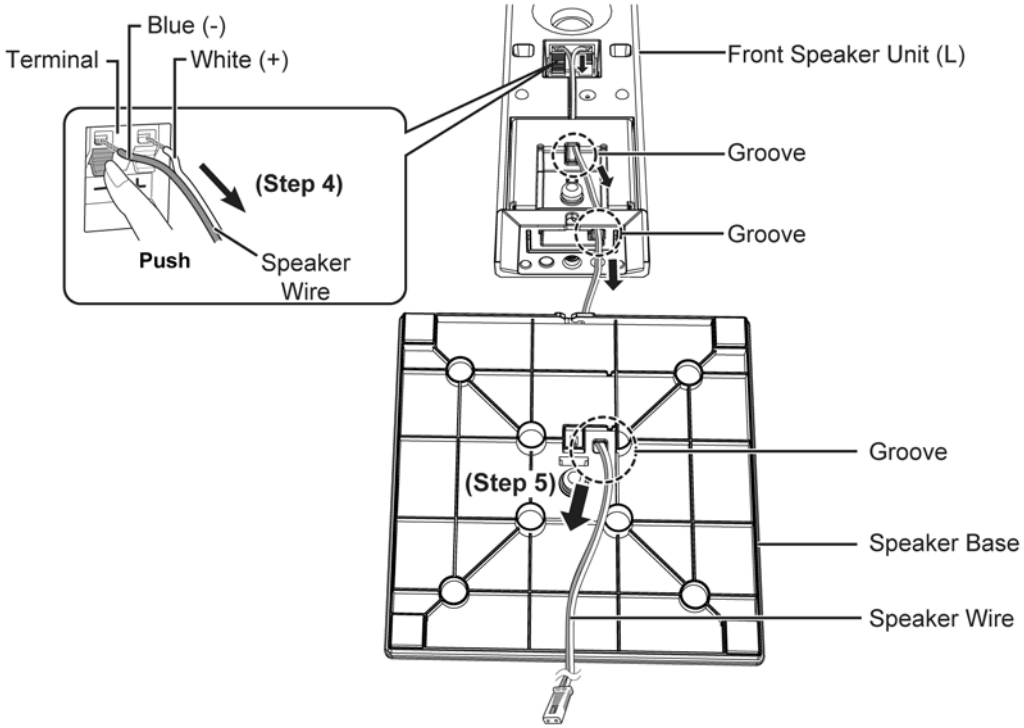
Step 1 : Remove 1 screw.
Step 2 : Release the Speaker Wire from the groove.



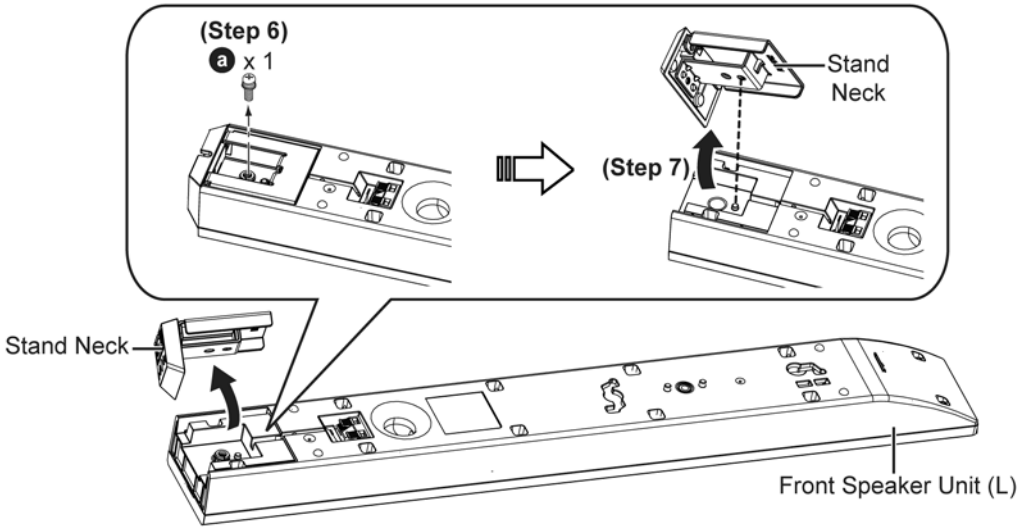
Step 3 : Slightly lift up the Speaker Base.
Caution: Do not remove the Speaker Base entirely.



Step 4 : Release the White (+) and Blue (-) Speaker Wire from the Terminal.
Step 5 : Remove the Speaker Wire through the grooves.



Step 6 : Remove 1 screw.
Step 7 : Remove the Stand Neck.



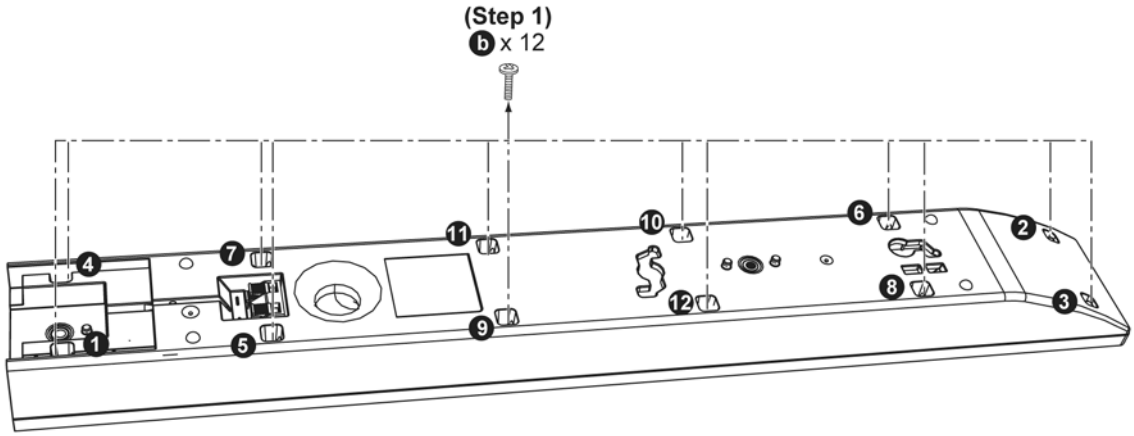
11.6. Disassembly of Front Speaker (L&R) (SB-HTB570)

Note : Front Speaker Unit (L) and (R) have the same mechanical structure. Therefore only the disassembly method for Front Speaker Unit (L) will be described in this section.

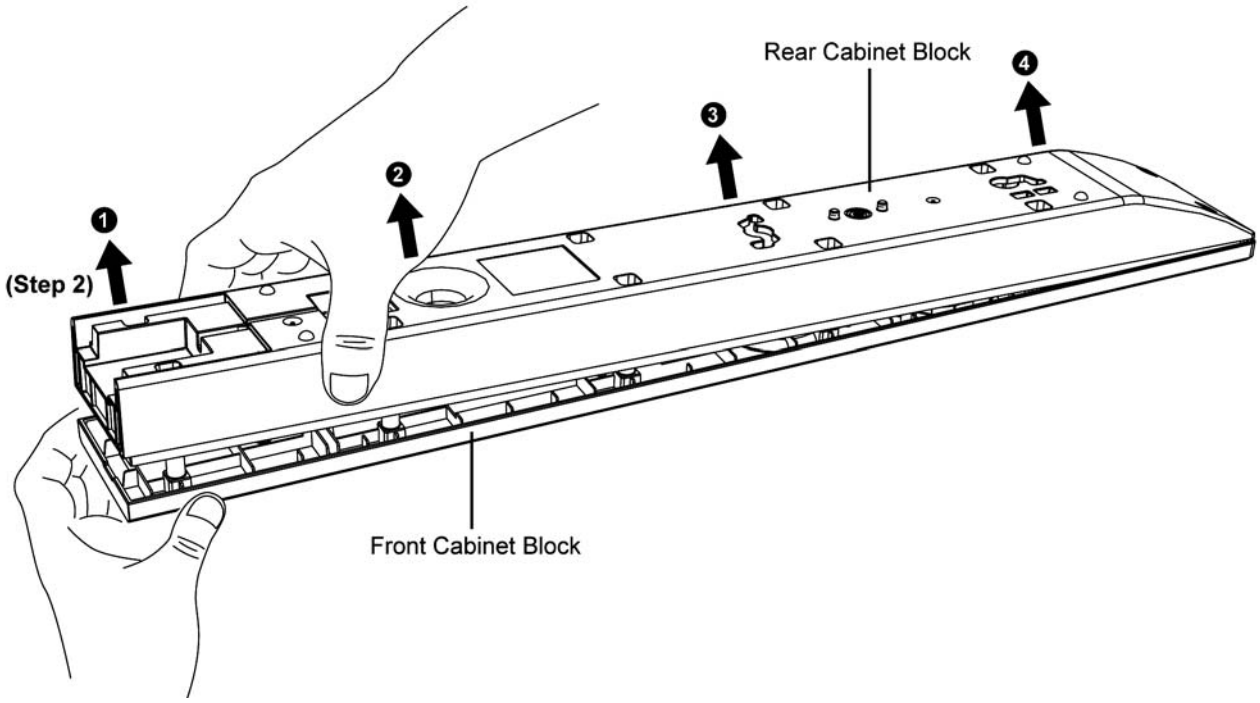
11.6.1. Disassembly of Rear Cabinet Assembly

- Refer to “Disassembly of Front Speaker Unit”.

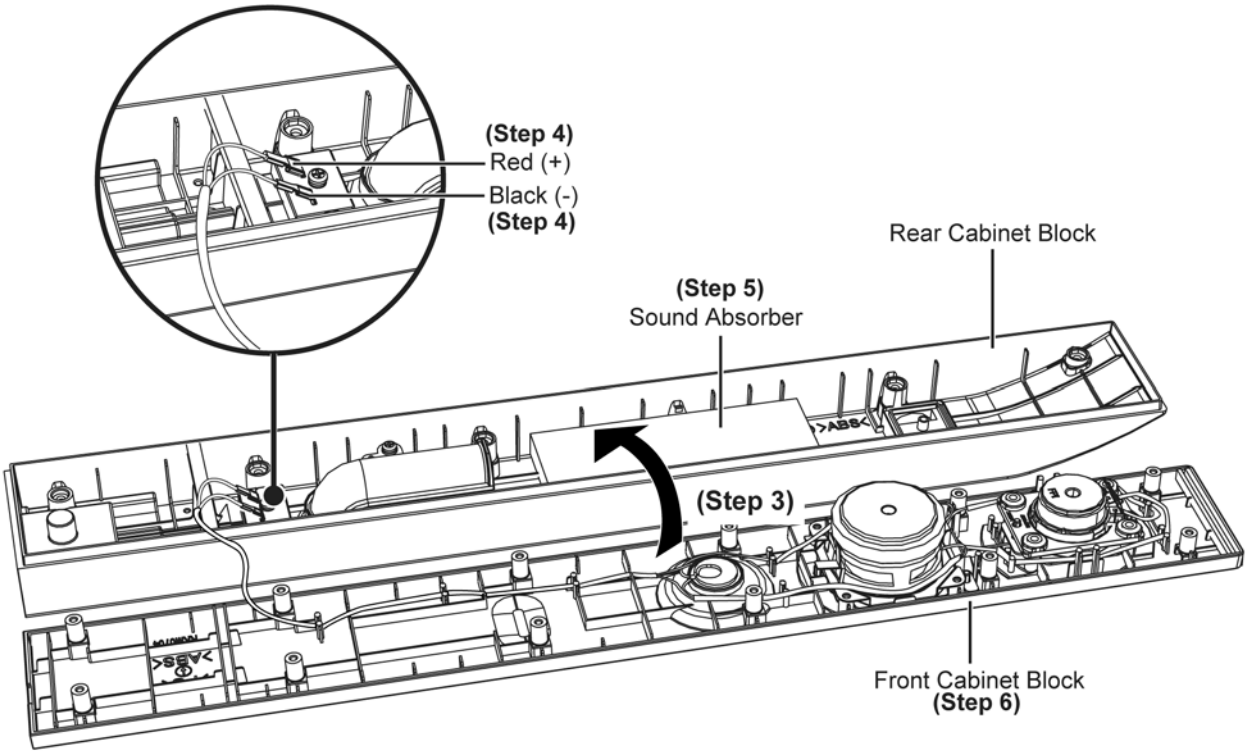
Step 1 : Remove 12 screws.
Caution: During assembling, fixed the screws in sequence of 1 to 12 as shown.



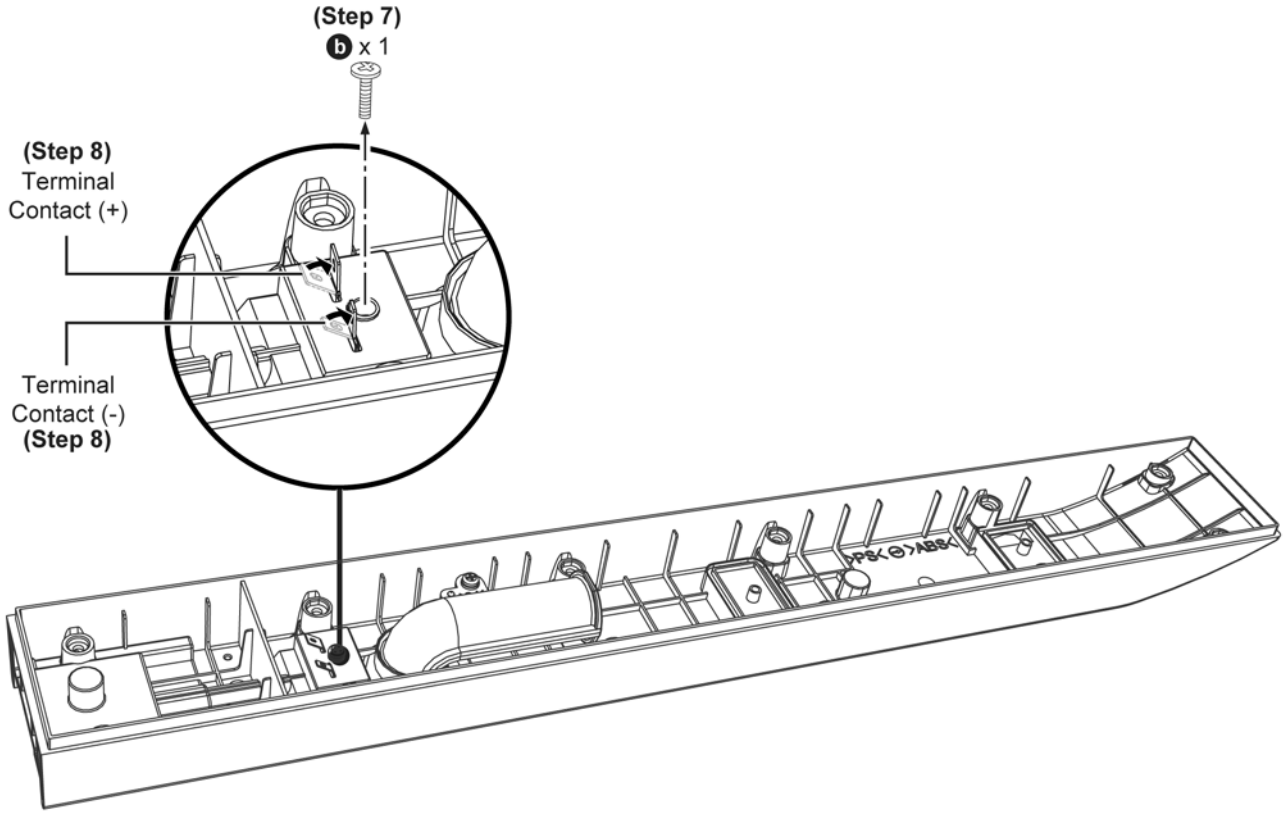
Step 2 : Detach the Rear Cabinet Block from the Front Cabinet Block in sequence (1-4) as shown.



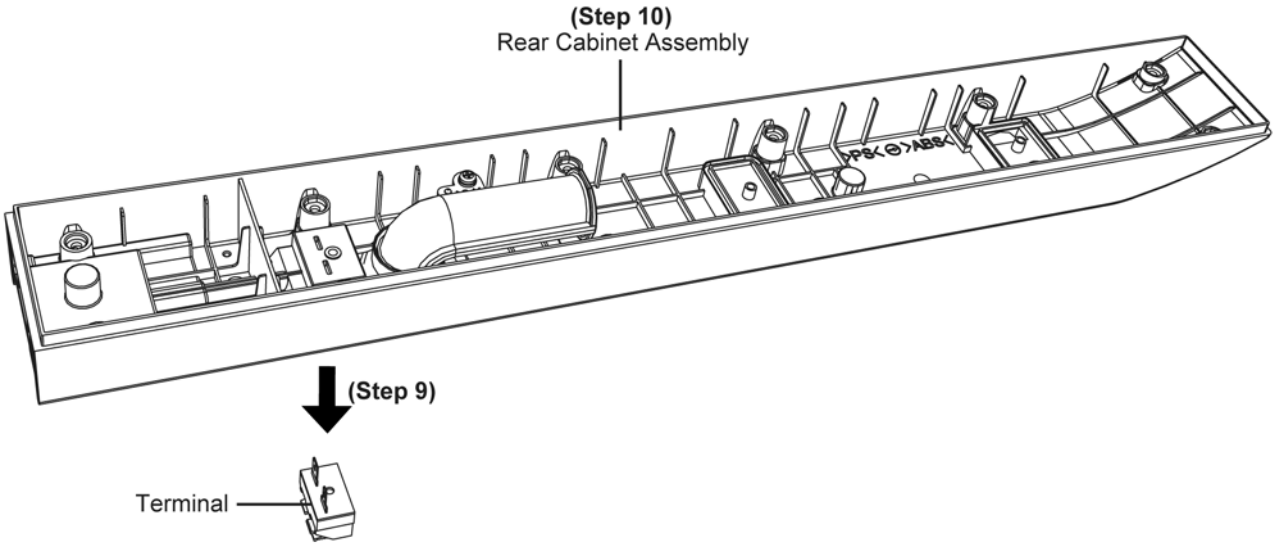
Step 3 : Upset the Rear Cabinet Block by the side of the Front Cabinet Block.
Step 4 : Detach the Red (+) and Black (-) wire from the Terminal.
Step 5 : Remove the Sound Absorber.
Caution: Safe keep the Sound Absorber and place them back during assembling.
Step 6 : Remove the Front Cabinet Block.



Step 7 : Remove 1 screw.
Step 8 : Unbend the Terminal Contacts (+) and (-).
Caution: Do not exert too much force as it may damage the Terminal Contacts.



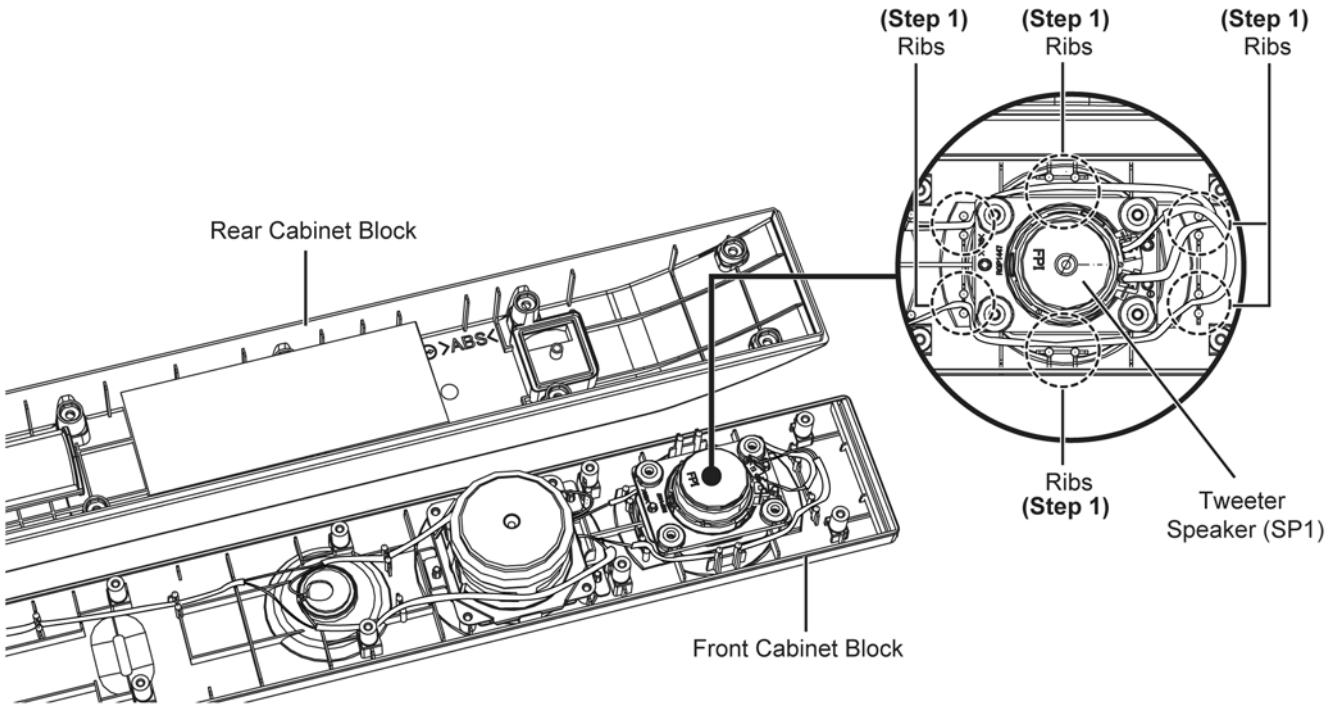
Step 9 : Remove the Terminal.
Step 10 : Remove the Rear Cabinet Assembly.



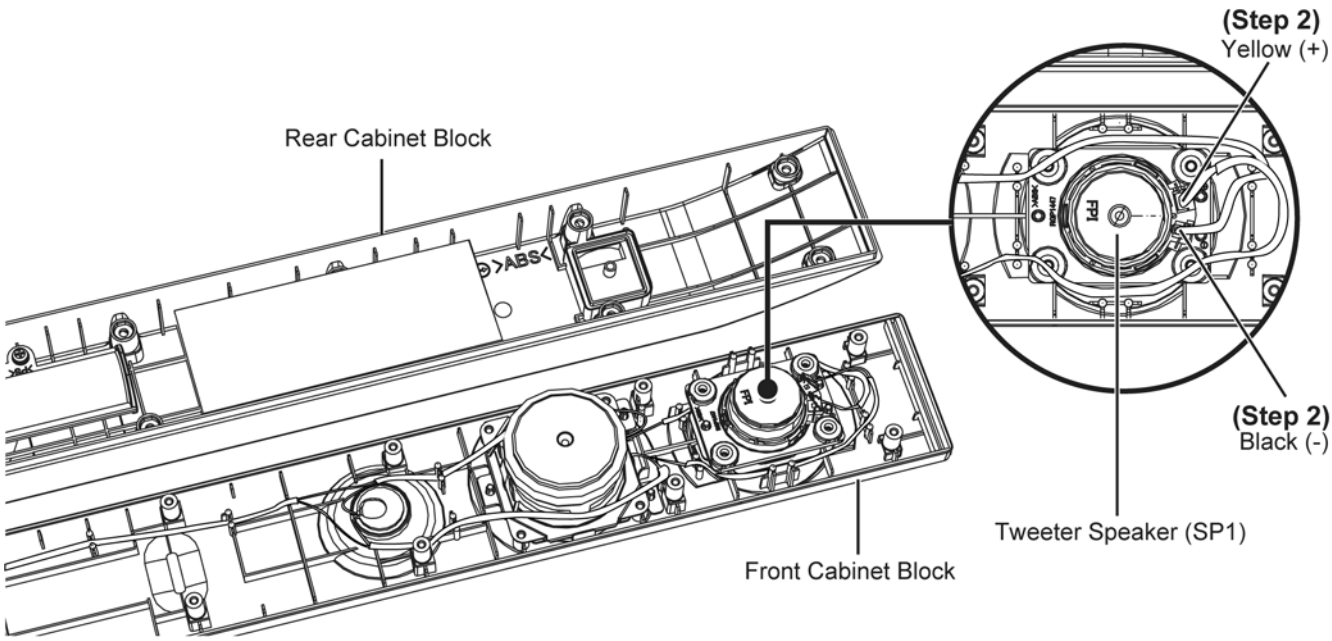
11.6.2. Disassembly of Tweeter Speaker (SP1)

- Refer to “Disassembly of Front Speaker Unit”.
- Refer to “Disassembly of Rear Cabinet Assembly” (Step 1) to (Step 3).

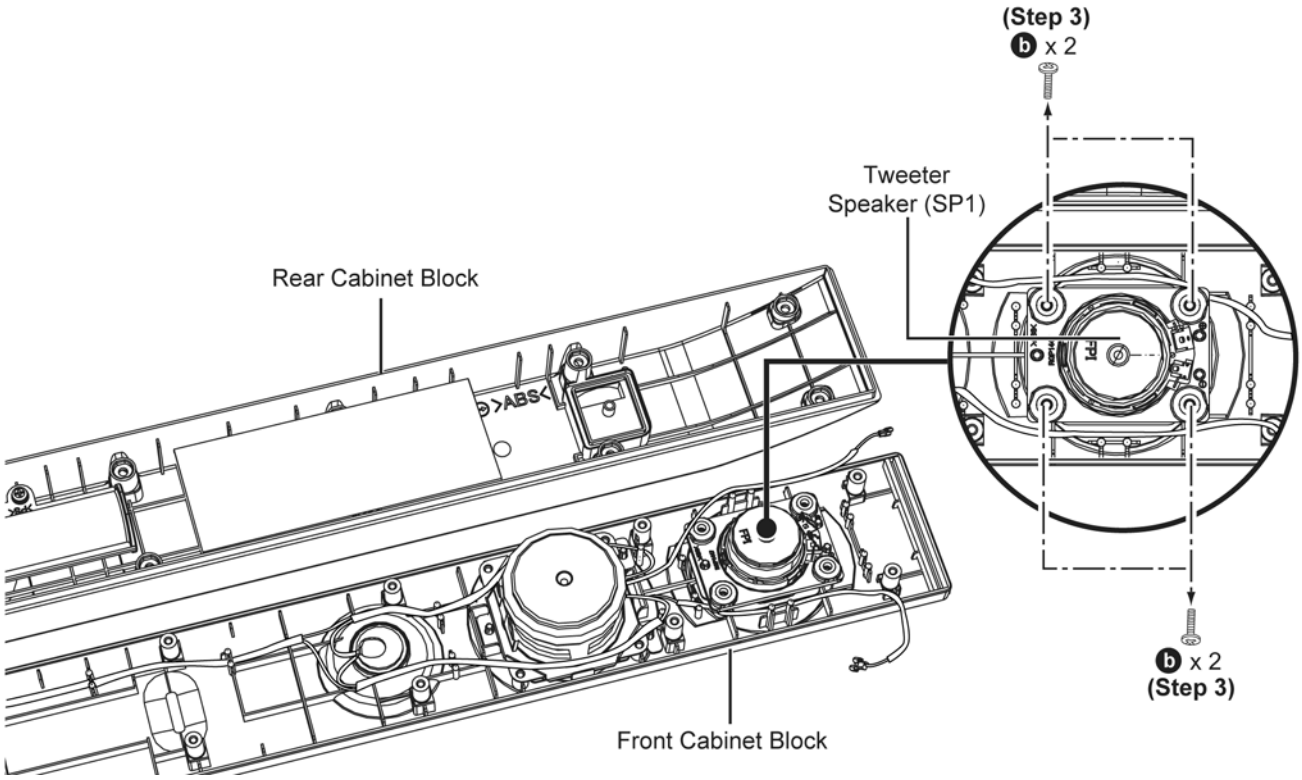
Step 1 : Release the Speaker Wire Assembly from the ribs of the Front Cabinet Block.



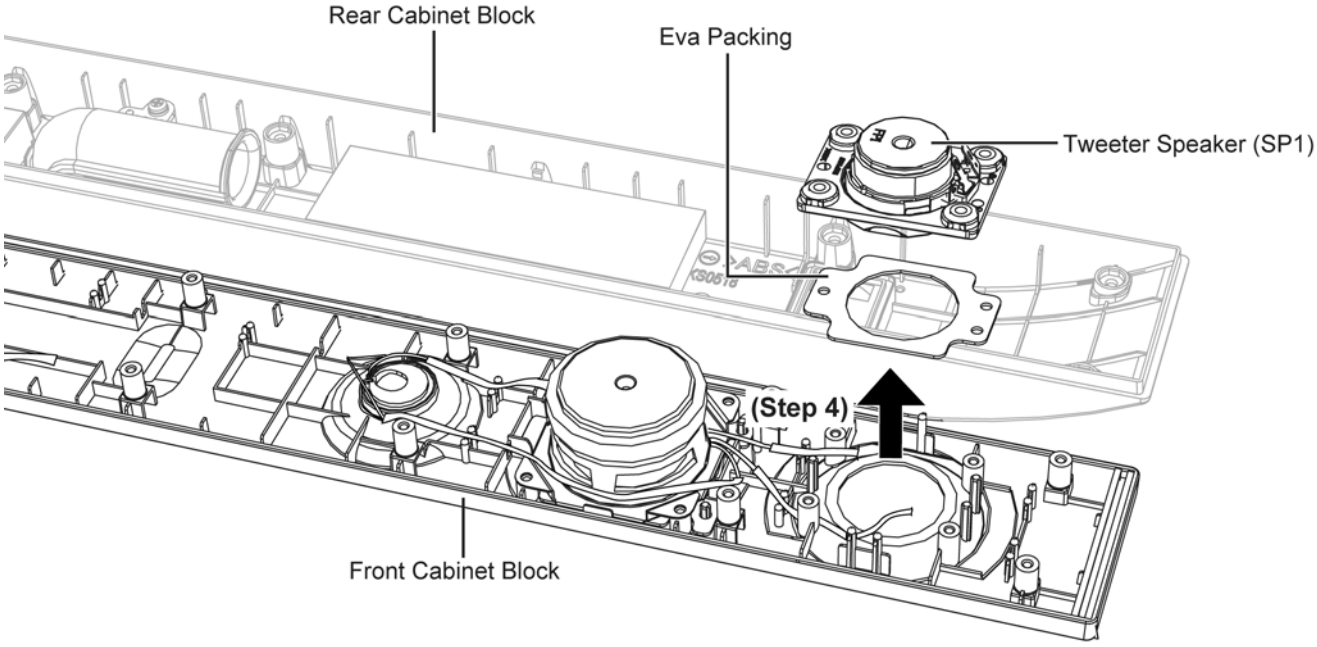
Step 2 : Detach the Yellow (+) and Black (-) wire from the terminal of the Tweeter Speaker (SP1).



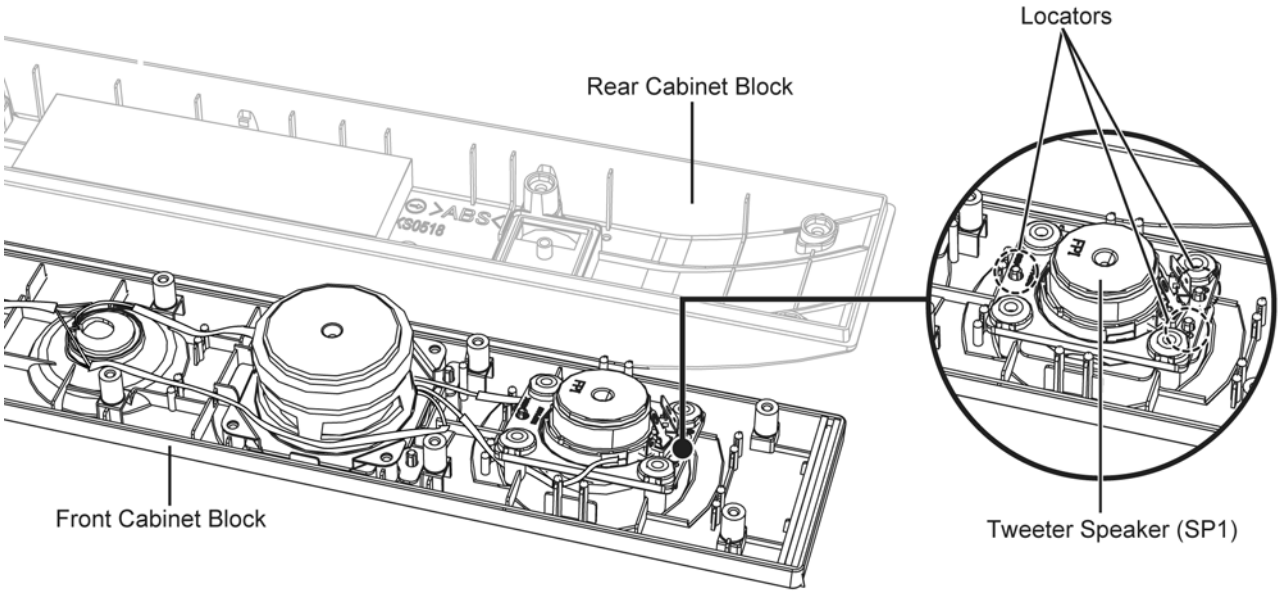
Step 3 : Remove 4 screws.



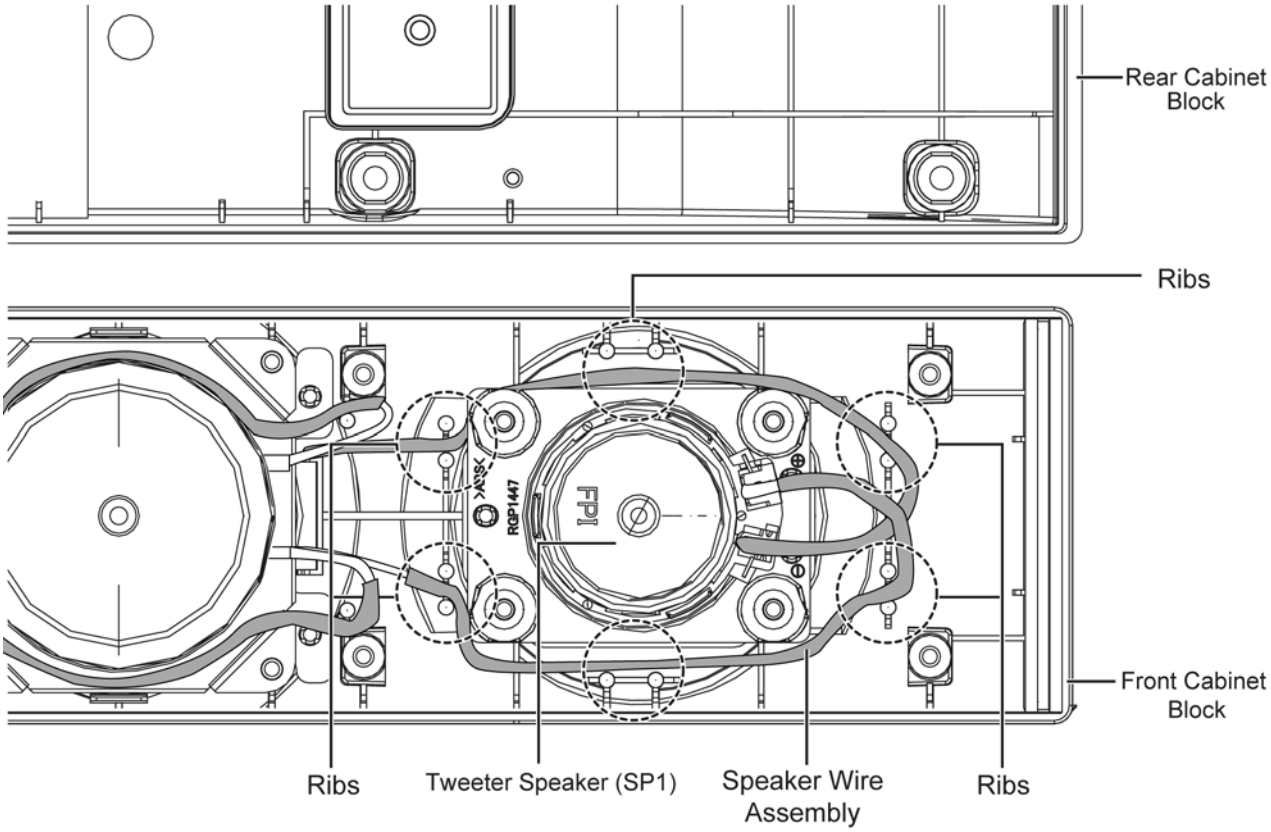
Step 4 : Remove the Tweeter Speaker (SP1) and the Eva Packing.



Caution 1: During assembling, ensure that the Tweeter Speaker (SP1) and the Eva Packing is seated properly onto the 3 locators of the Front Cabinet Block.



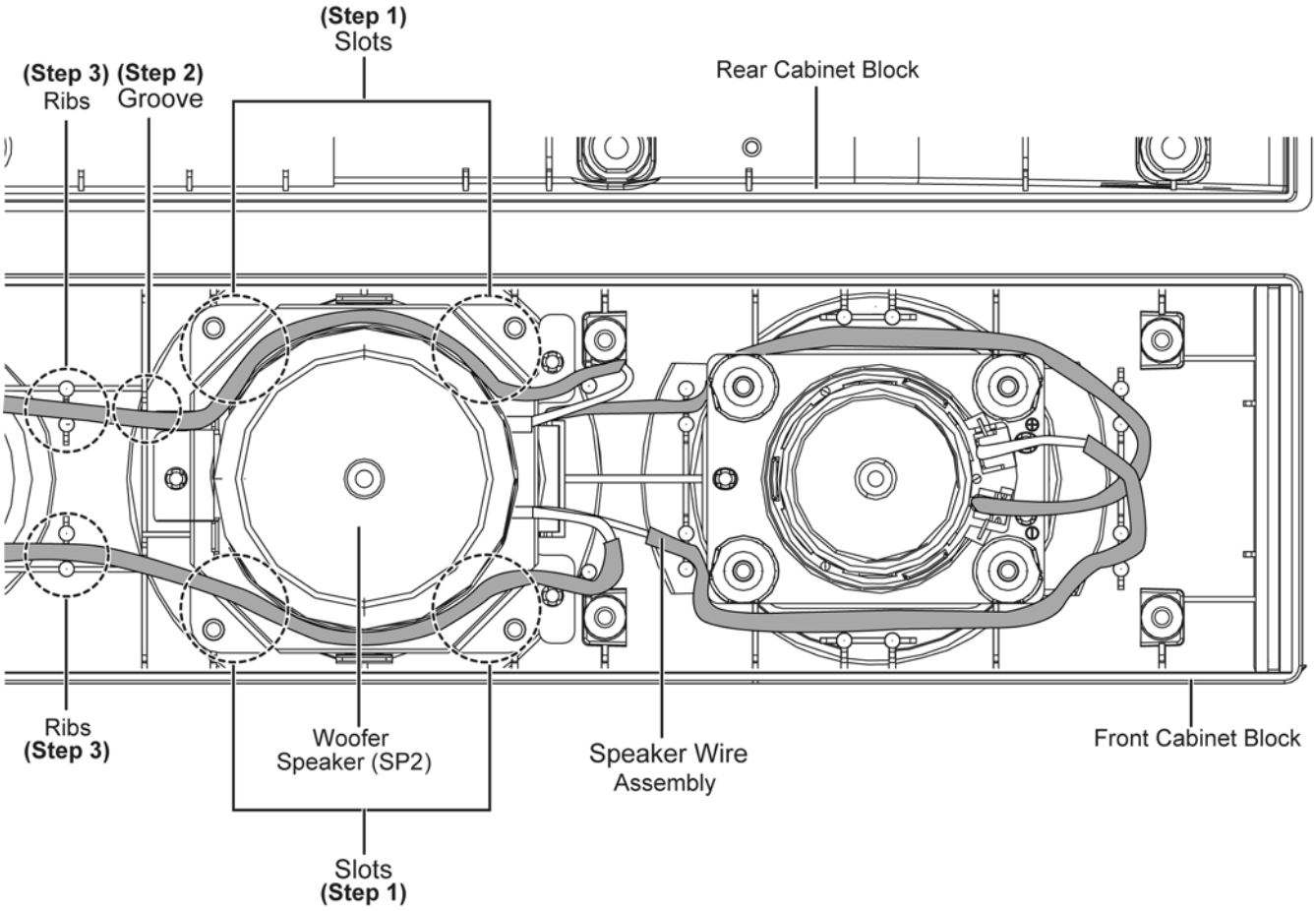
Caution 2: During assembling, ensure that the Speaker Wire Assembly is dressed properly between the ribs of the Front Cabinet Block as shown.



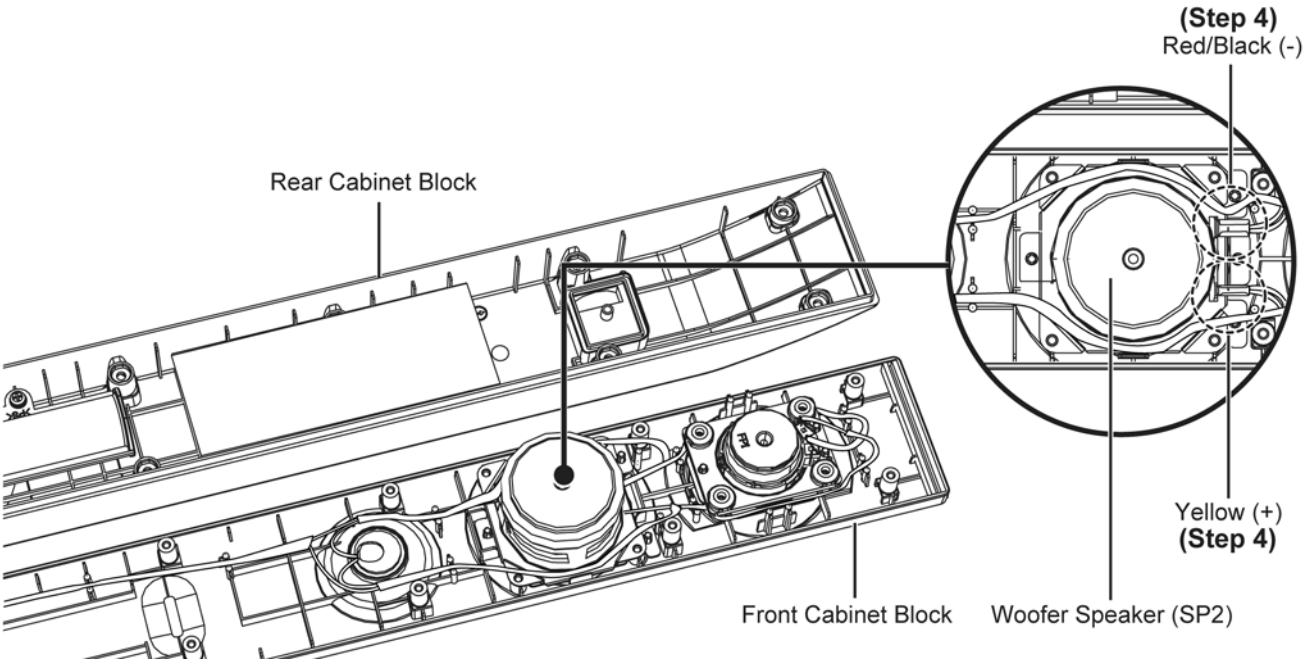
11.6.3. Disassembly of Woofer Speaker (SP2)

- Refer to “Disassembly of Front Speaker Unit”.
- Refer to “Disassembly of Rear Cabinet Assembly” (Step 1) to (Step 3).

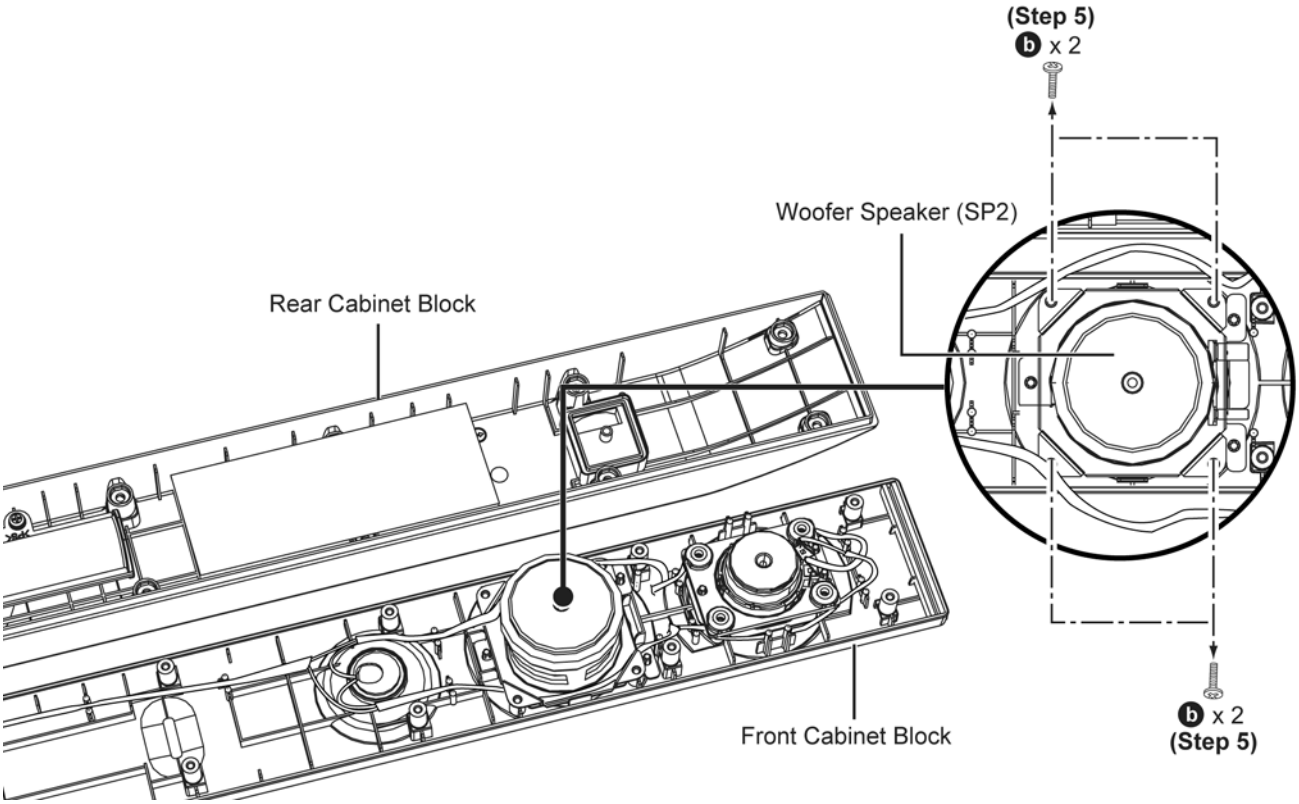
Step 1 : Release the Speaker Wire Assembly from the slots of the Woofer Speaker (SP2).
Step 2 : Release the Speaker Wire Assembly from the groove of the Front Cabinet Block.
Step 3 : Release the Speaker Wire Assembly from the ribs of the Front Cabinet Block.



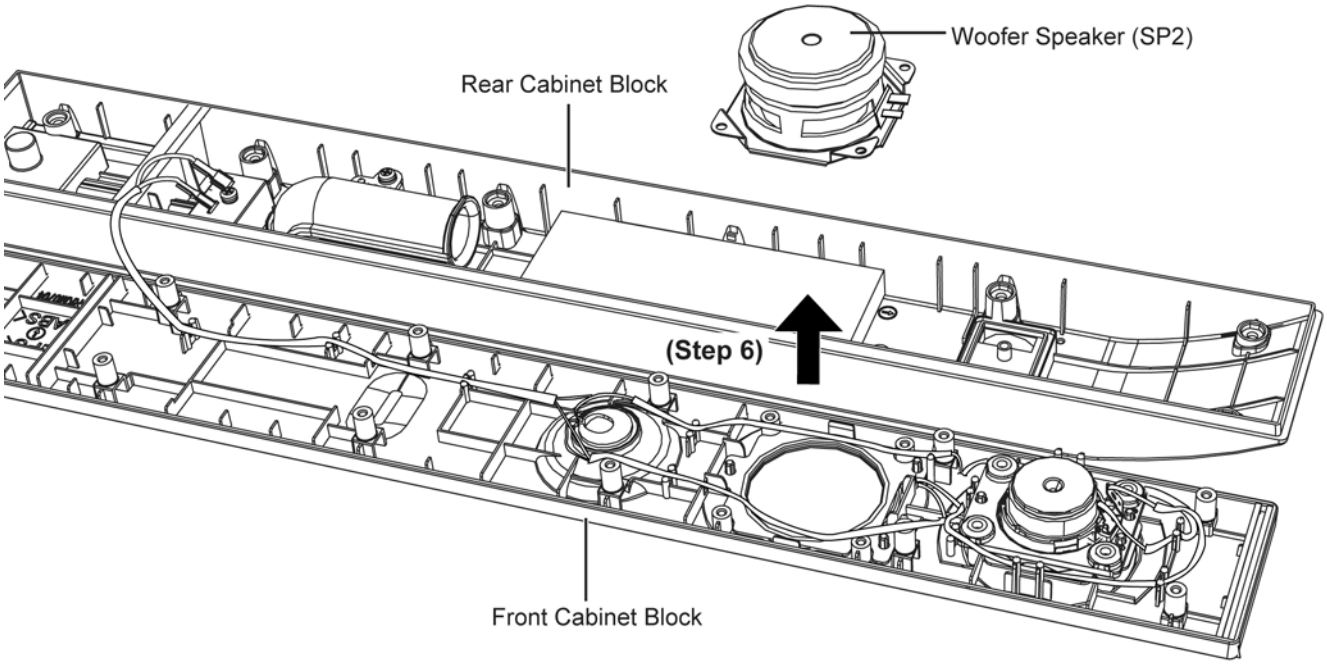
Step 4 : Detach the Yellow (+) and Red/Black (-) wire from the terminal of the Woofer Speaker (SP2).



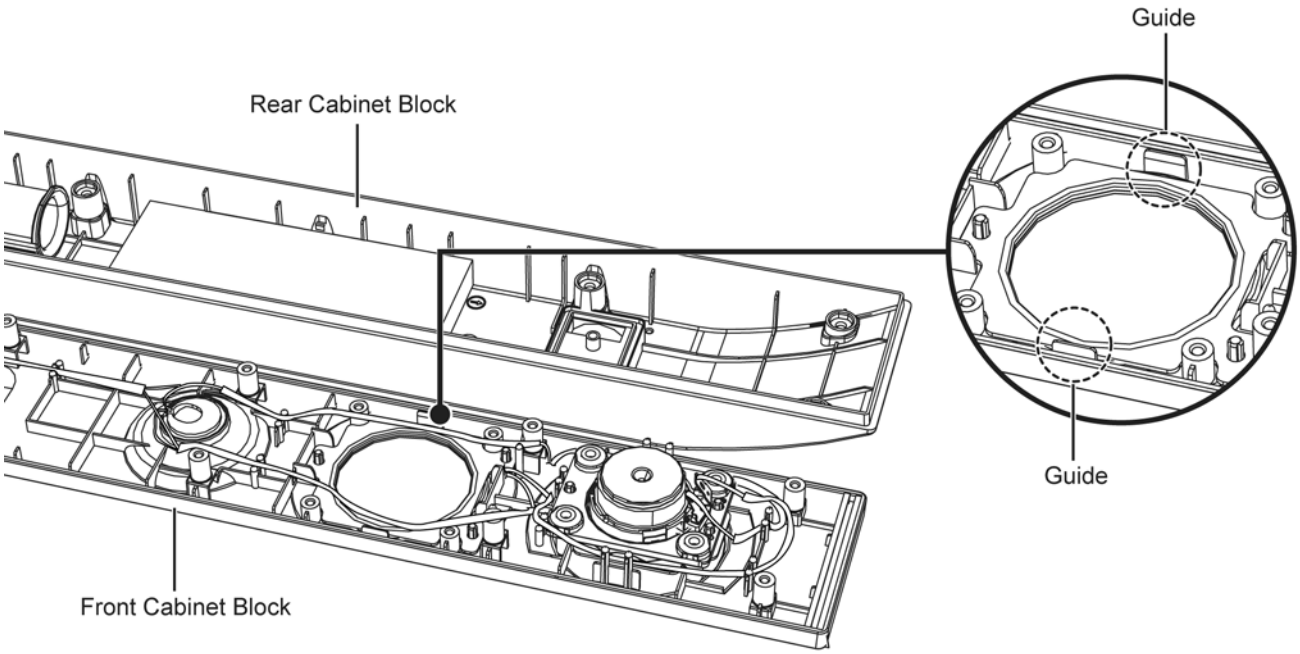
Step 5 : Remove 4 screws.



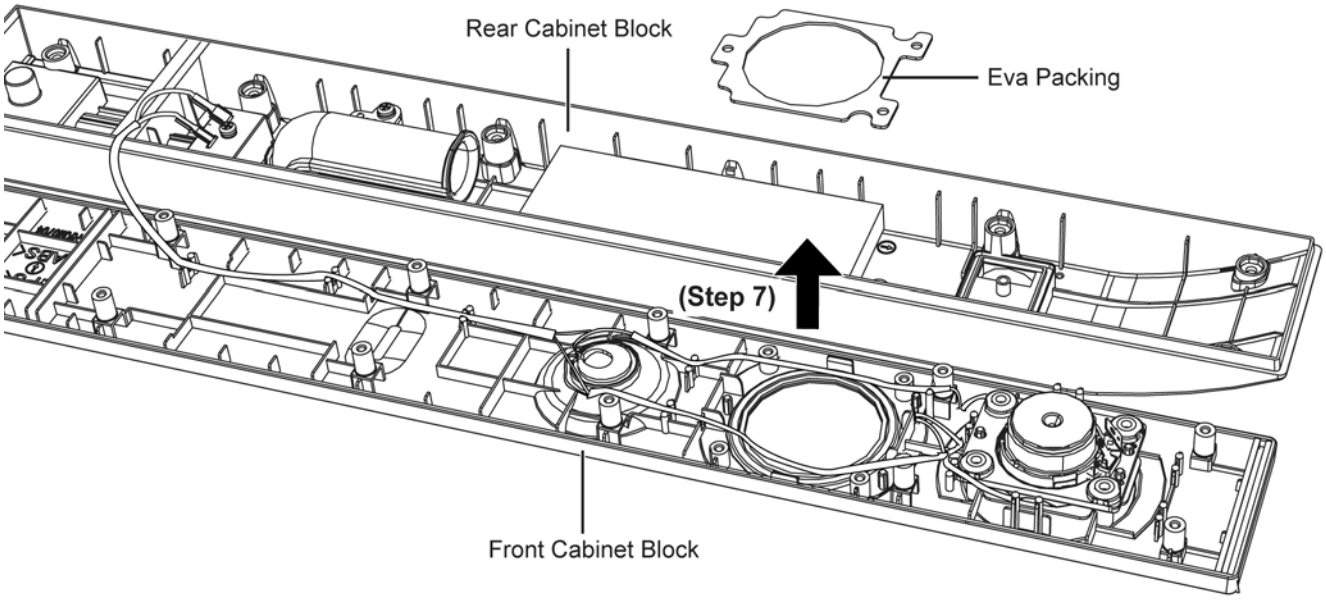
Step 6 : Remove the Woofer Speaker (SP2).



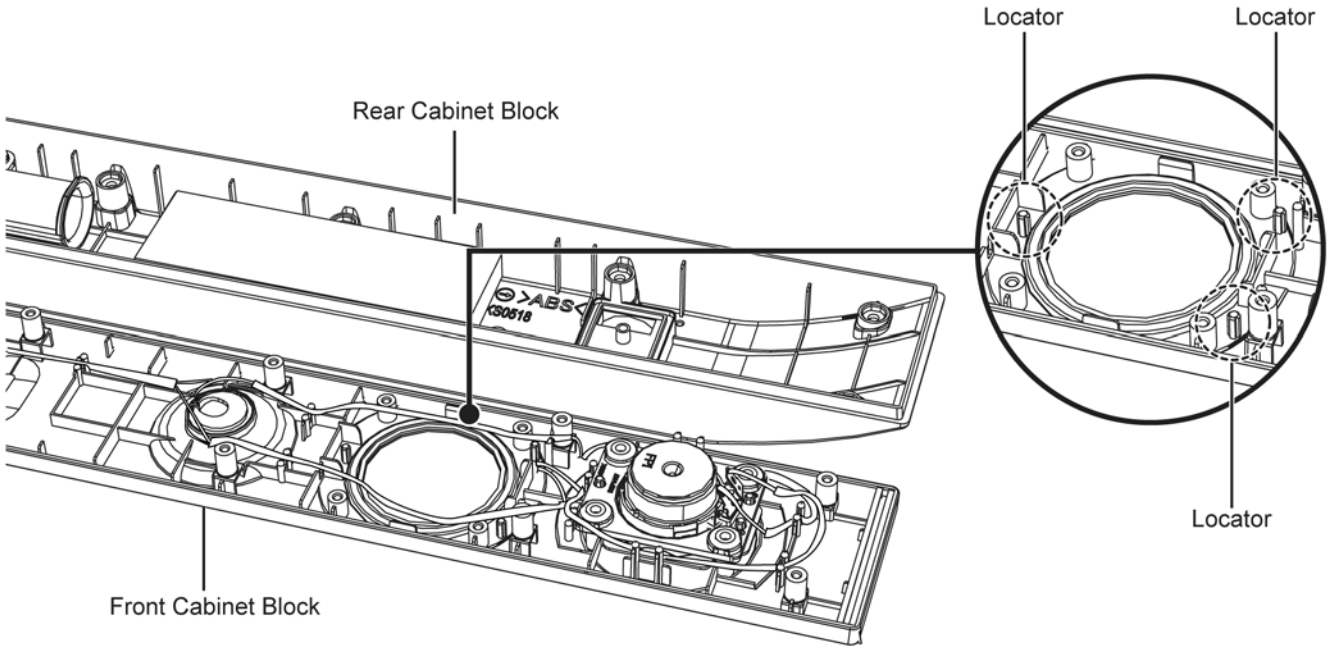
Caution: During assembling, ensure that the Woofer Speaker (SP2) is seated properly within the 2 guides of the Front Cabinet Block.



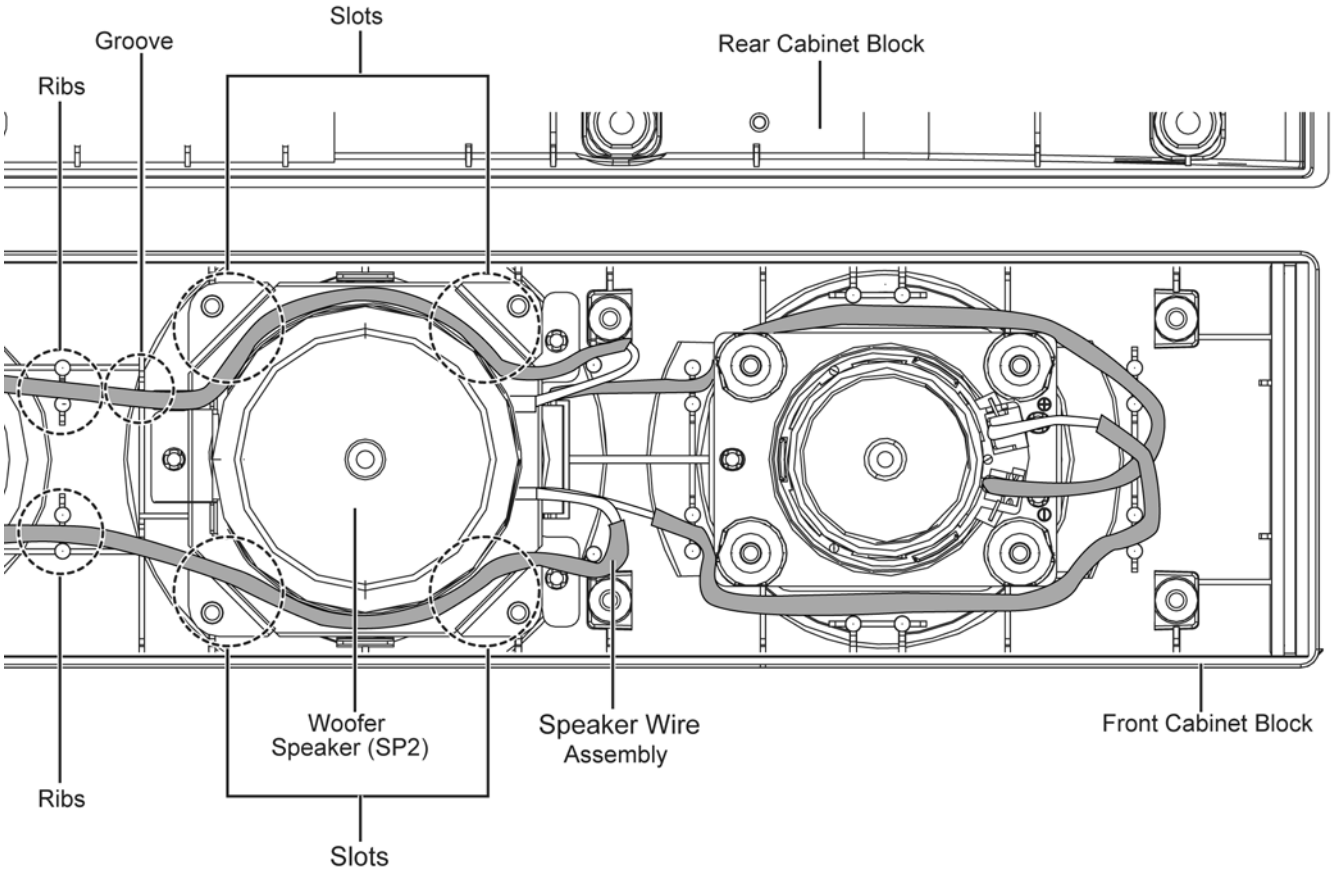
Step 7 : Remove the EVA Packing.



Caution: During assembling, ensure that the EVA Packing is seated properly onto the 3 locators of the Front Cabinet Block.



Caution: During assembling, ensure that the Speaker Wire Assembly is dressed properly between the 2 slots of the Woofer Speaker (SP2), the groove of the Front Cabinet Block and the ribs of the Front Cabinet Block as shown.



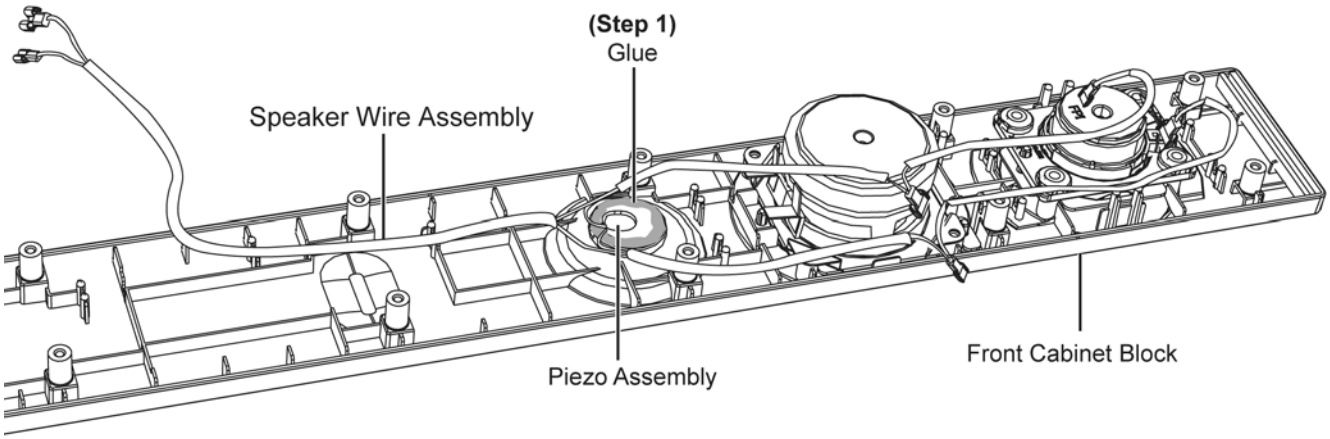
11.6.4. Replacement of the Speaker Wire Assembly

11.6.4.1. Disassembly of the Speaker Wire Assembly

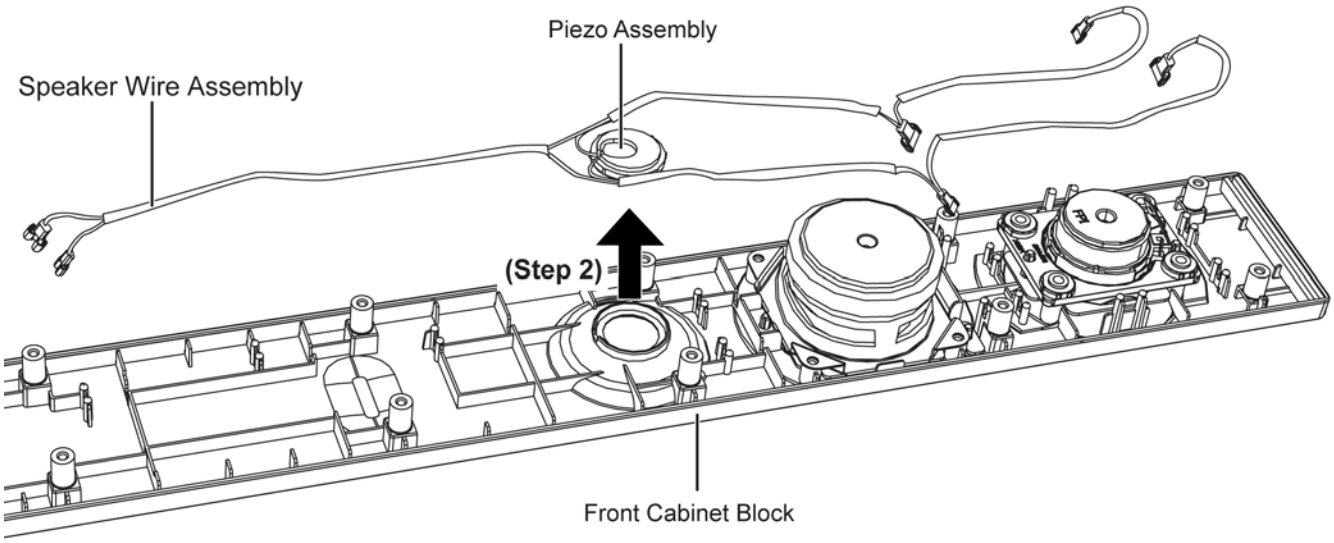
Note: Speaker Wire Assembly is inclusive of Piezo

- Refer to “Disassembly of Front Speaker Unit”.
- Refer to “Disassembly of Rear Cabinet Assembly” (Step 1) to (Step 4).
- Refer to “Disassembly of Tweeter Speaker (SP1)” (Step 1) to (Step 3).
- Refer to “Disassembly of Woofer Speaker (SP2)” (Step 1) to (Step 4).

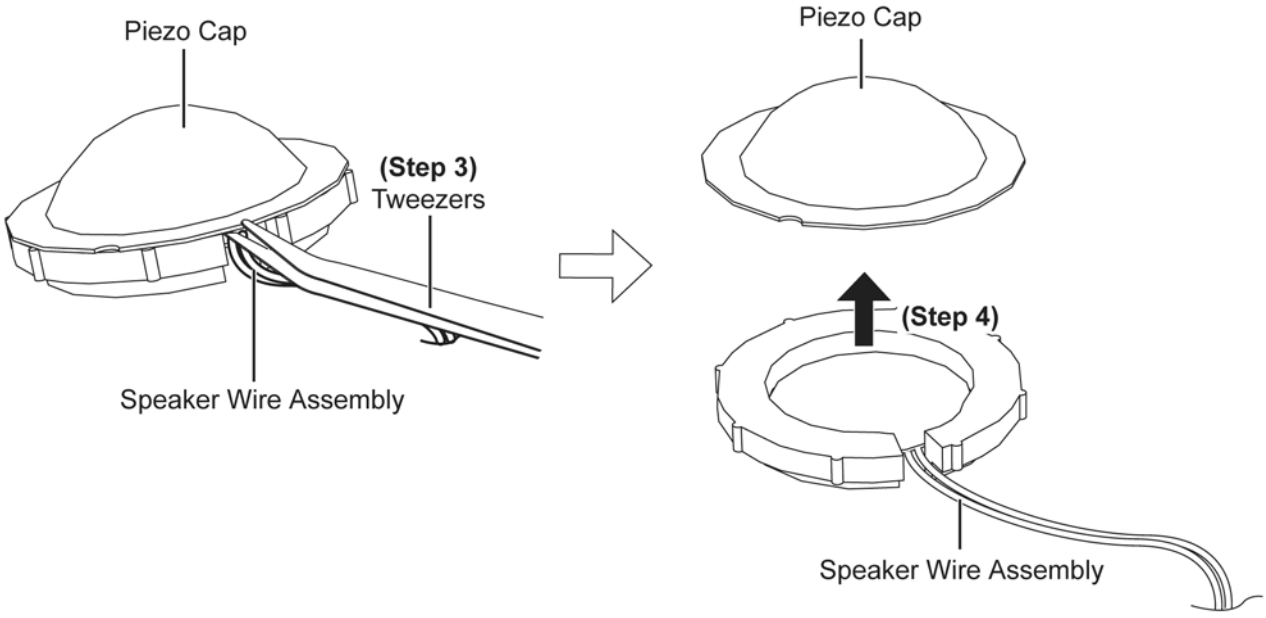
Step 1 : Remove the Glue.



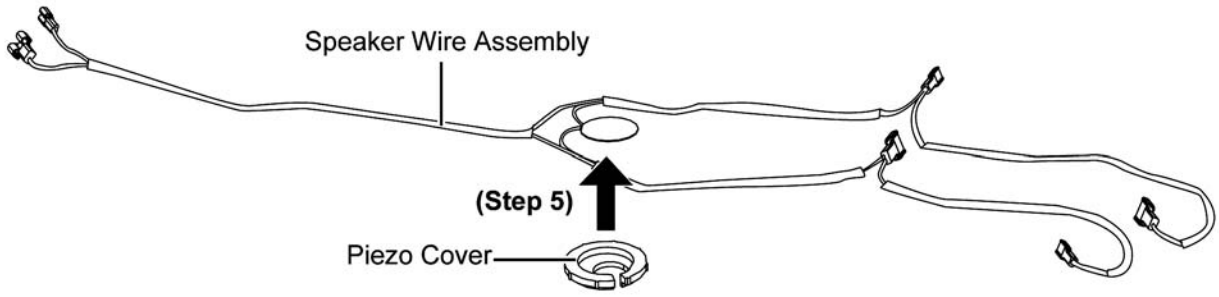
Step 2 : Remove the Speaker Wire Assembly together with Piezo Assembly.



Step 3 : Use a pair of Tweezers to remove the Piezo Cap from Speaker Wire Assembly.
Step 4 : Remove the Piezo Cap.

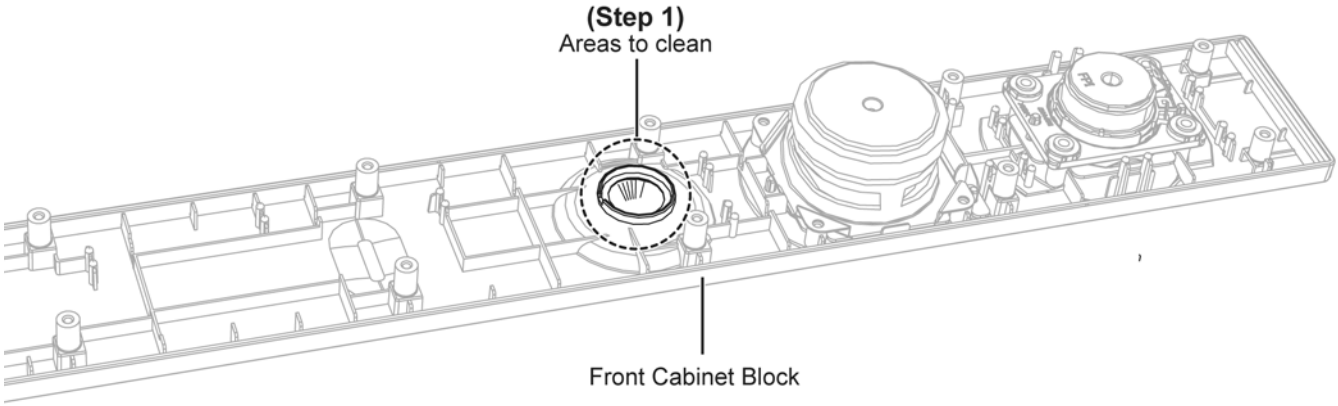


Step 5 : Remove the Speaker Wire Assembly from the Piezo Cover.

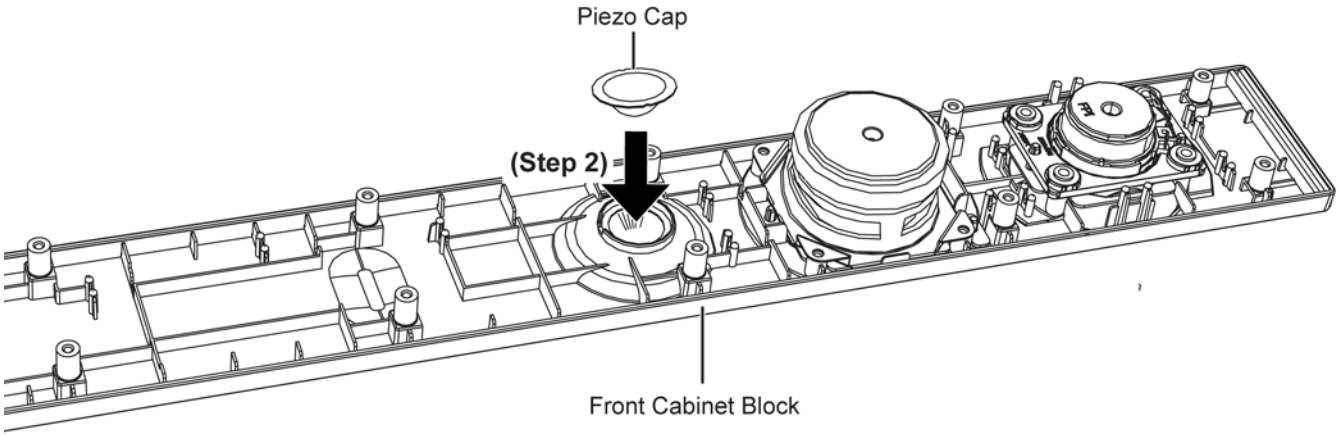


11.6.4.2. Assembly of the Speaker Wire Assembly

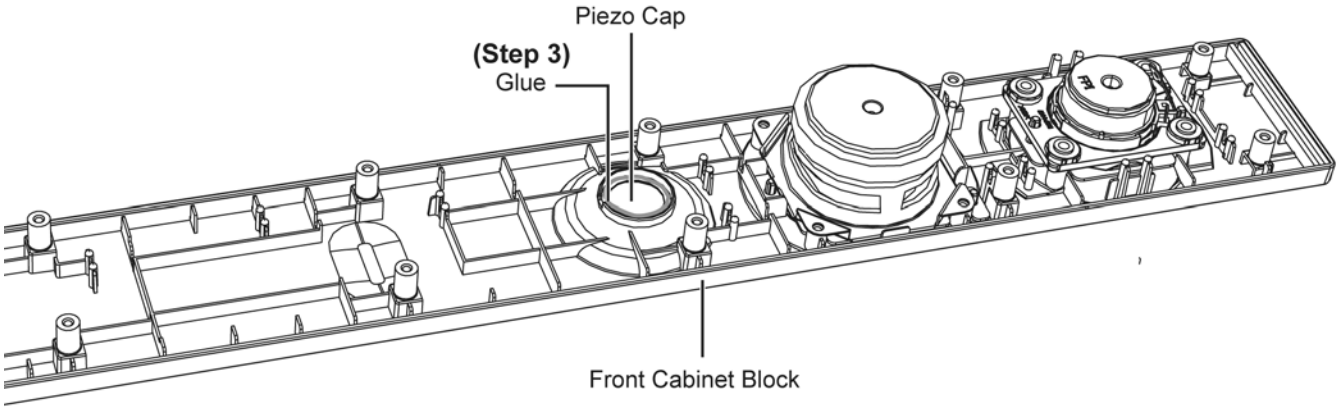
Step 1 : Clean the surface of Front Cabinet Block.



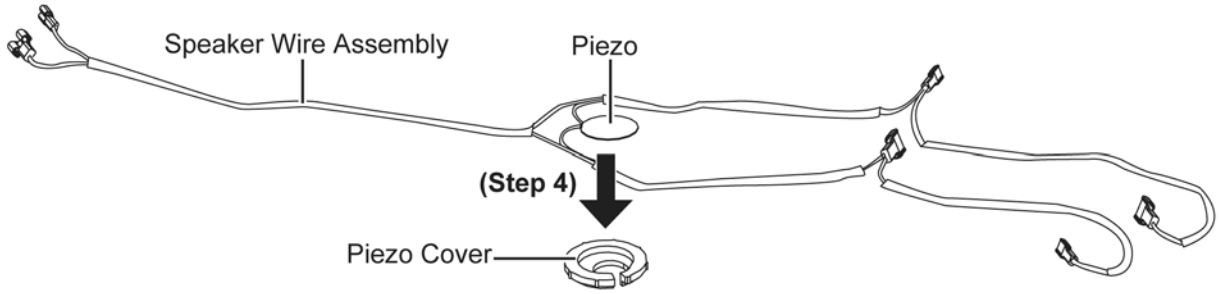
Step 2 : Place the Piezo Cap onto the Front Cabinet Block.



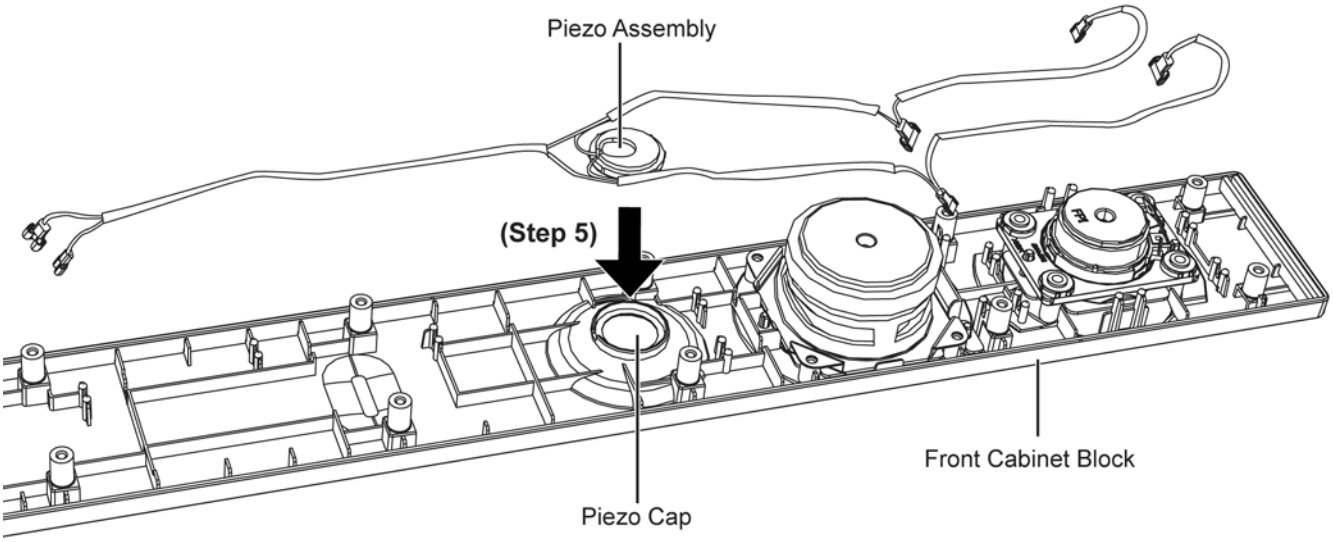
Step 3 : Apply Glue to the Piezo Cap.



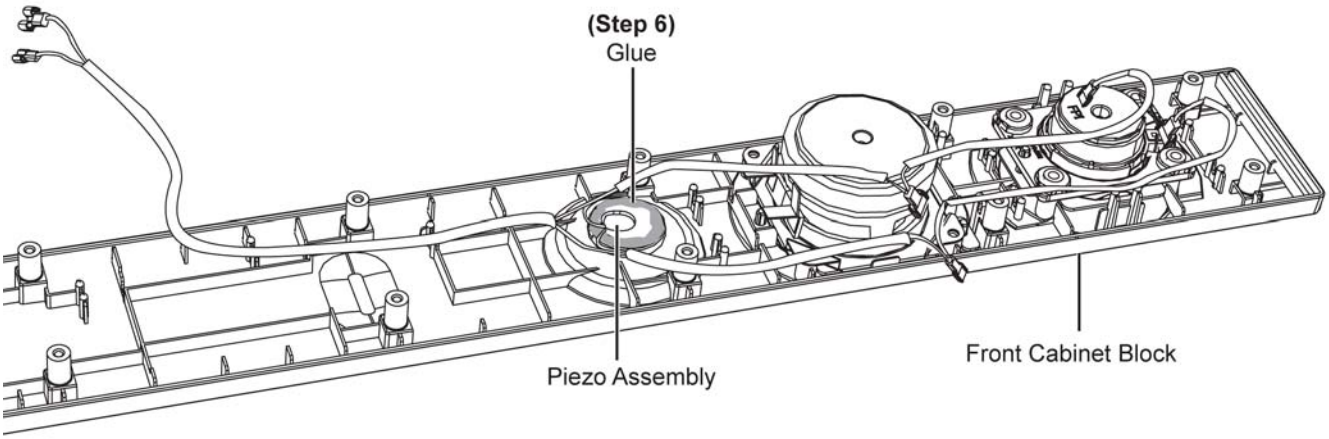
Step 4 : Place the Piezo onto the Piezo Cover.



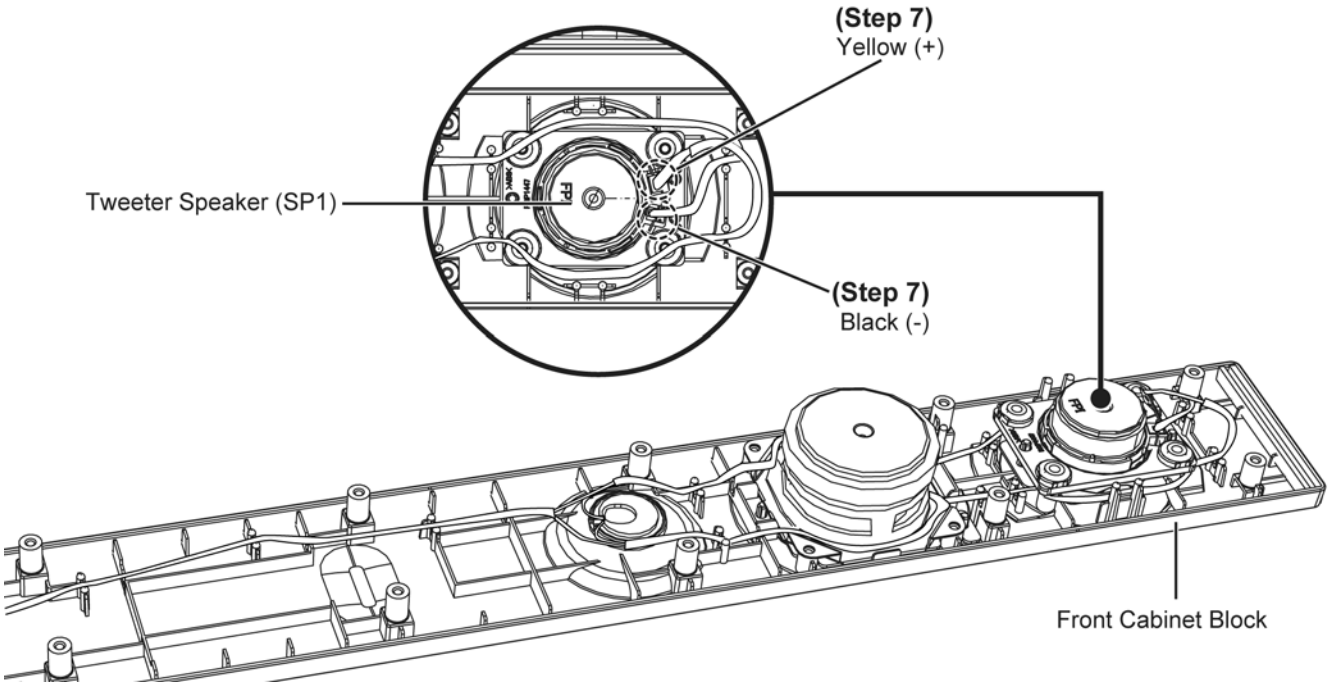
Step 5 : Place the Piezo Assembly onto the Piezo Cap.



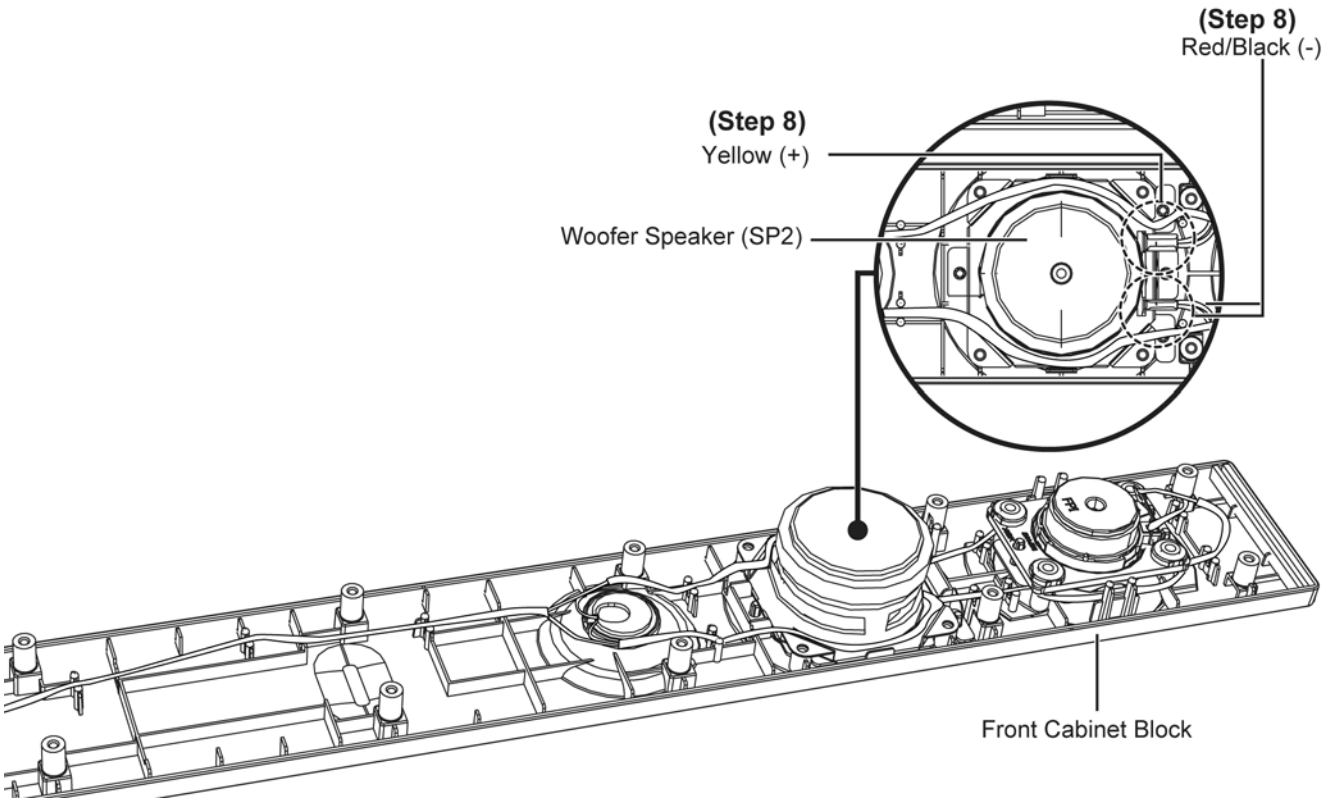
Step 6 : Apply the Glue to the Piezo Assembly.



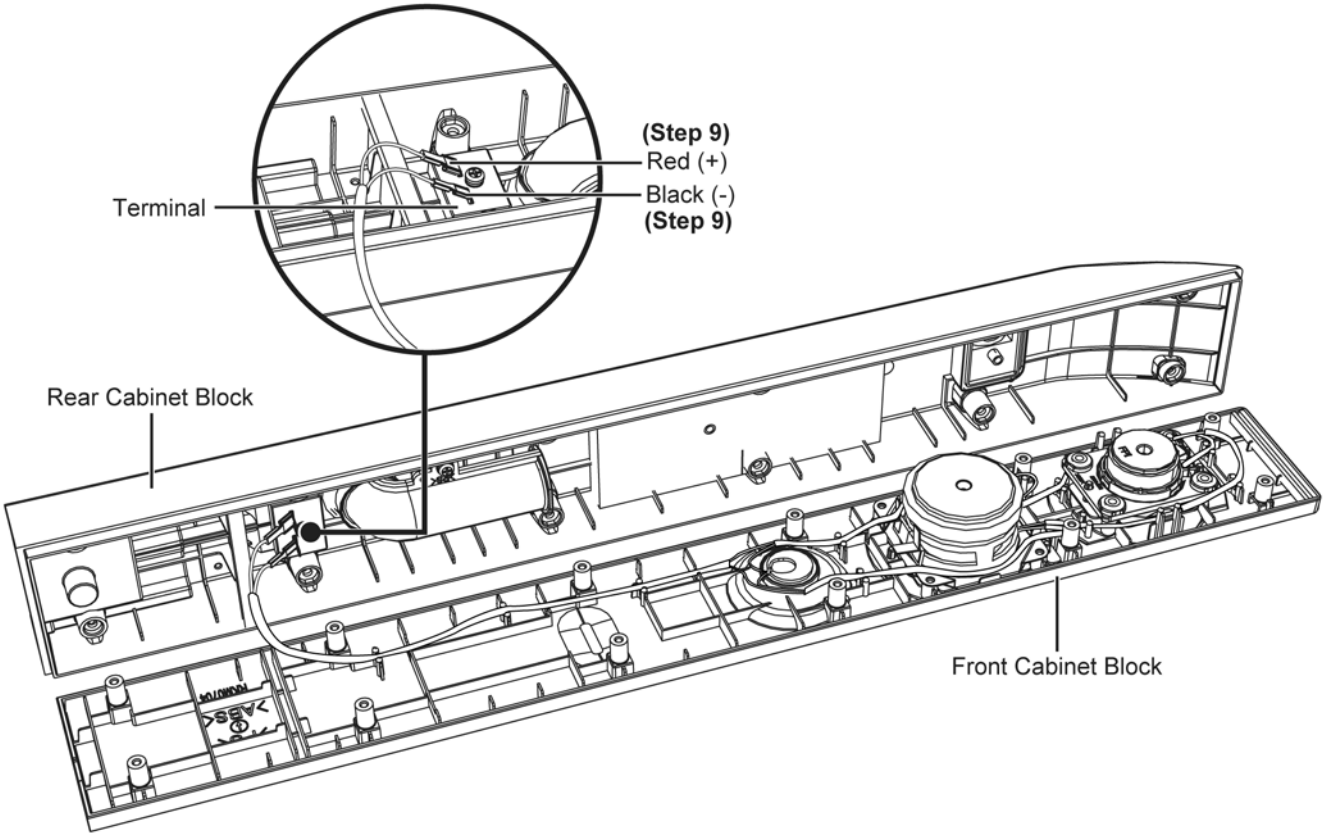
Step 7 : Attach the Yellow (+) and Black (-) wire to the terminal of Tweeter Speaker (SP1).



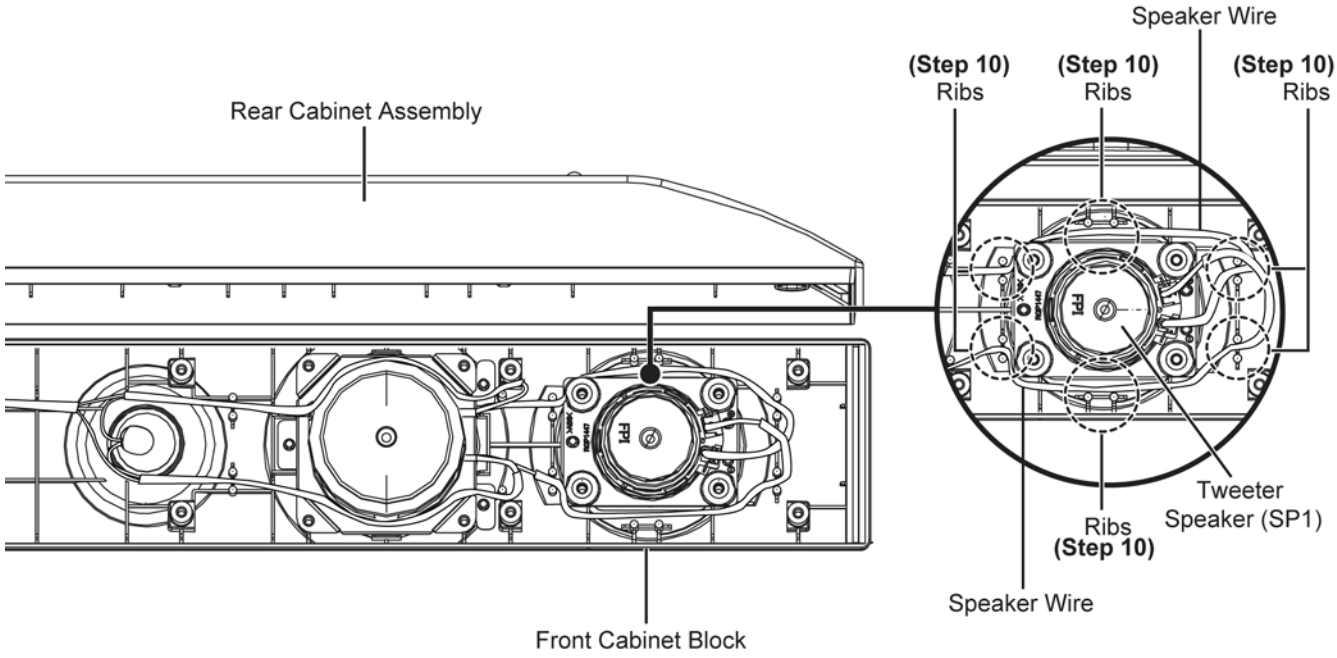
Step 8 : Attach the Yellow (+) and Red/Black (-) wire to the terminal of Woofer Speaker (SP2).



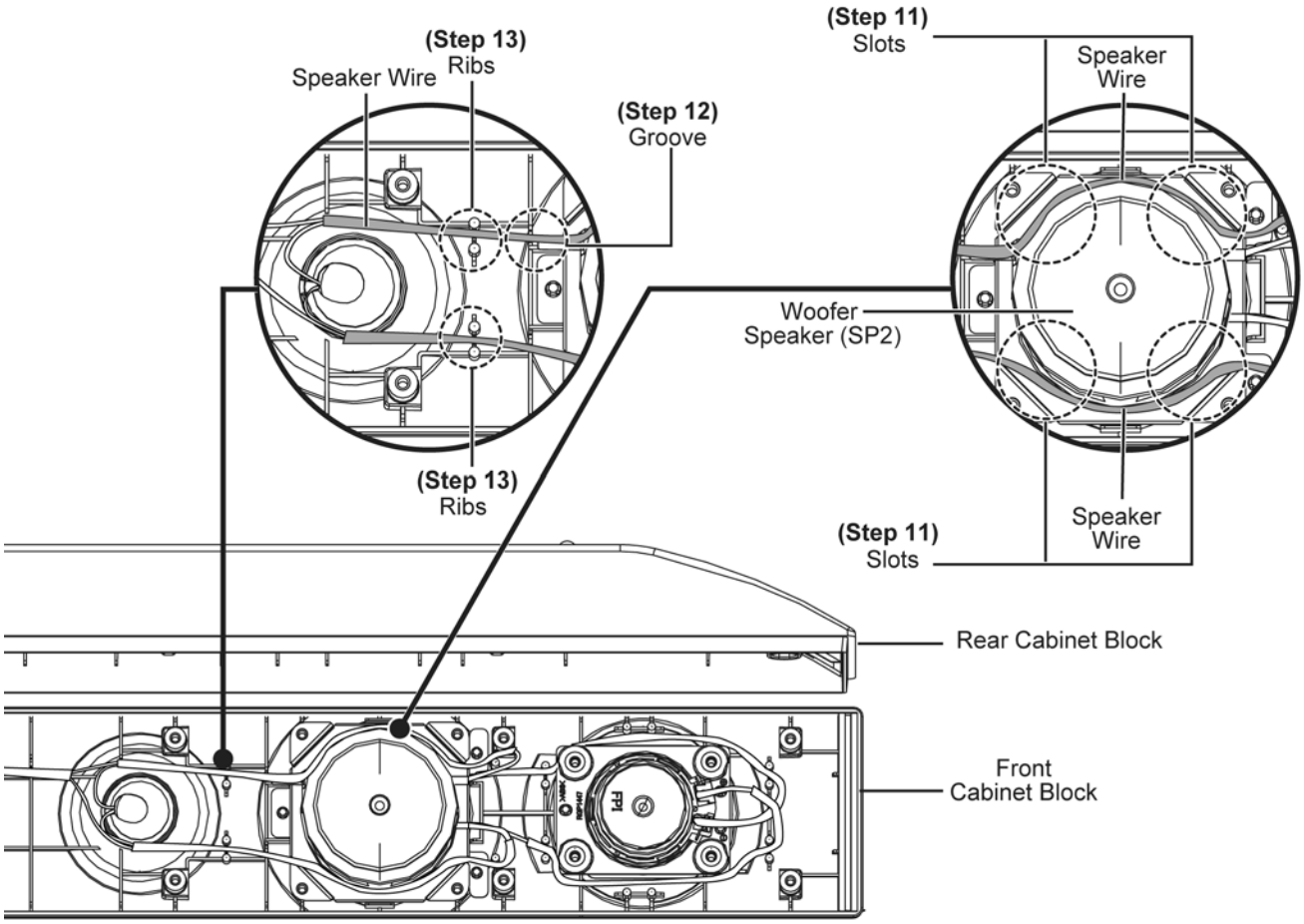
Step 9 : Attach the Black (-) and Red (+) wire to the Terminal.



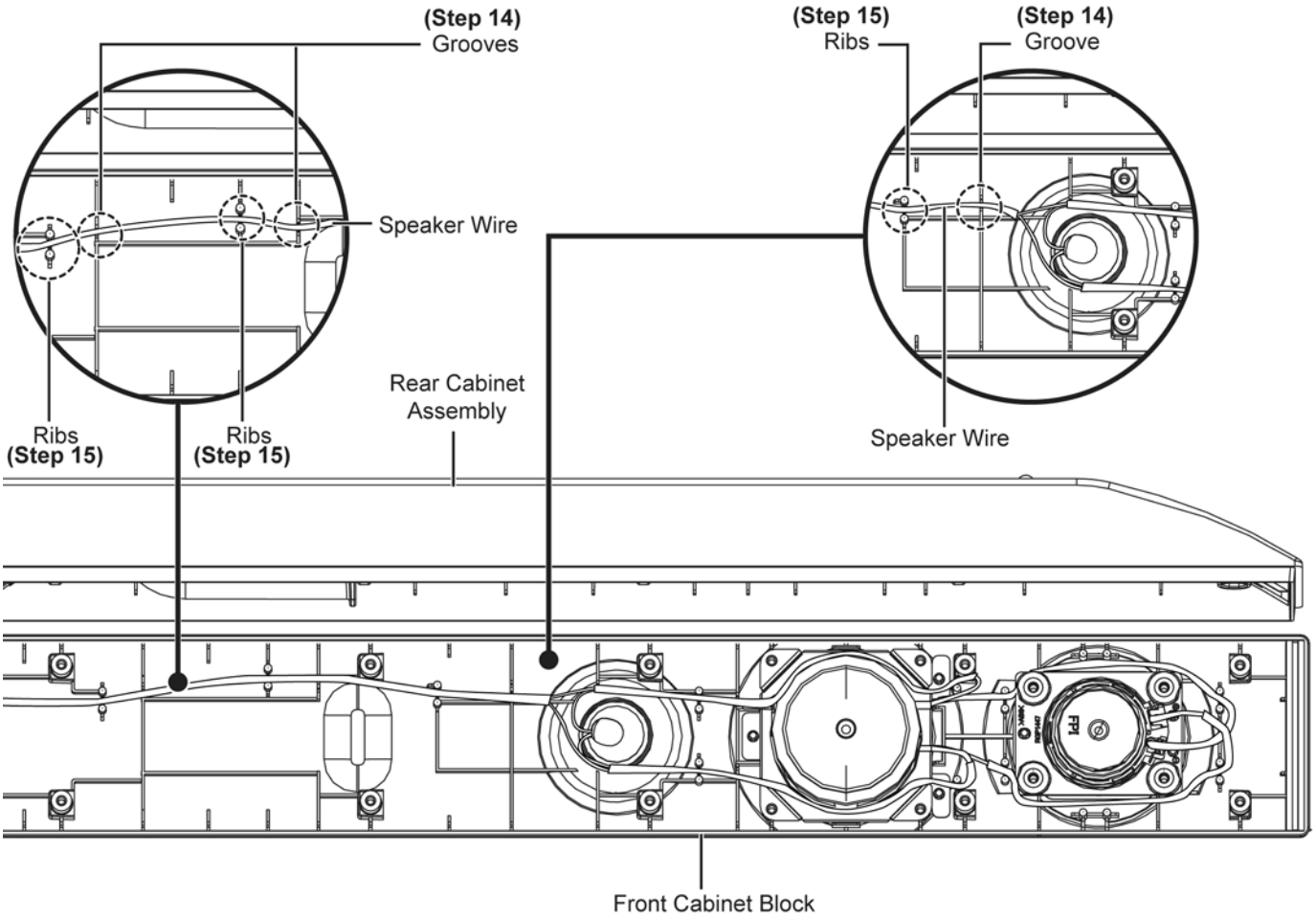
Step 10 : Dressed the Speaker Wire Assembly between the ribs of the Front Cabinet Block.



Step 11 : Dressed the Speaker Wire Assembly into the slots of the Woofer Speaker (SP2)..
Step 12 : Dressed the Speaker Wire Assembly into the groove of the Front Cabinet Block.
Step 13 : Dressed the Speaker Wire Assembly between the ribs of the Front Cabinet Block.



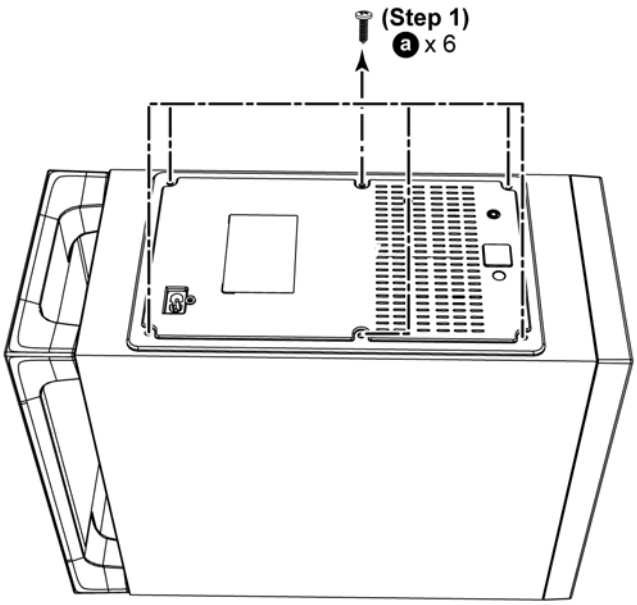
Step 14 : Dressed the Speaker Wire Assembly into the grooves of the Front Cabinet Block.
Step 15 : Dressed the Speaker Wire Assembly into the ribs of the Front Cabinet Block.



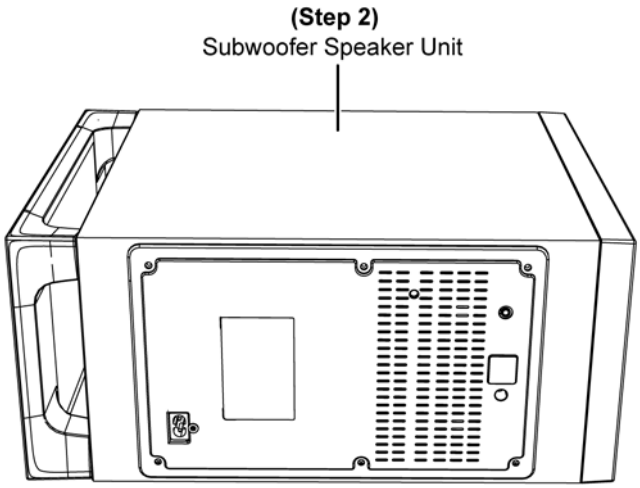
11.7. Disassembly of Active Subwoofer (SB-HWA370)

11.7.1. Disassembly of Rear Panel Block

Step 1 : Remove 6 screws.

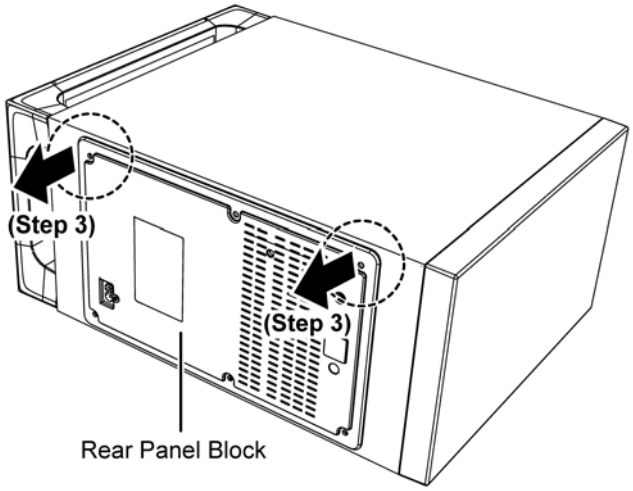


Step 2 : Upset the Subwoofer Speaker Unit.

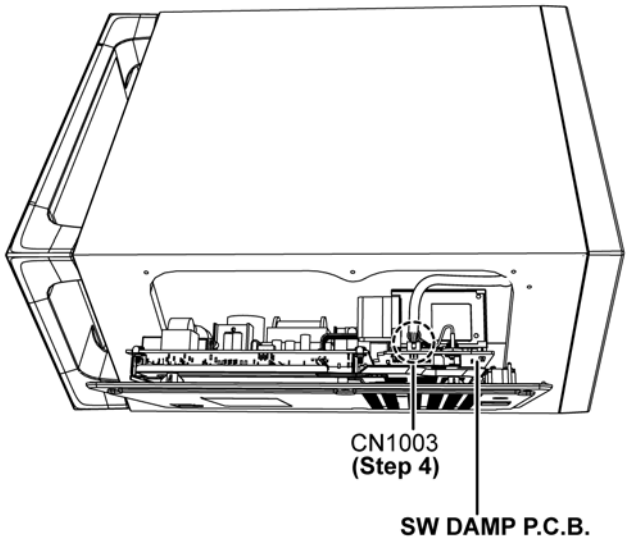


Step 3 : Slightly detach the Rear Panel Block.

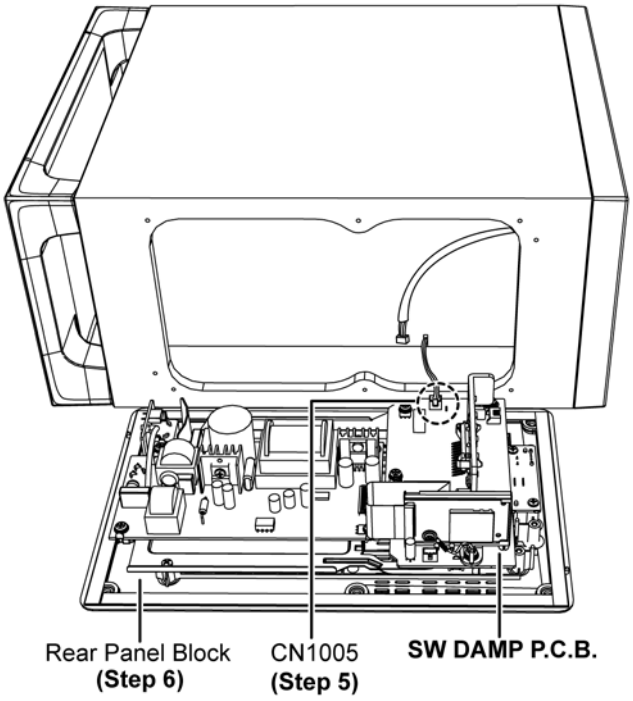
Caution : Do not exert too much force as it may damage the wiring inside.



Step 4 : Detach 3P Cable Wire at the connector (CN1003) on the SW DAMP P.C.B..



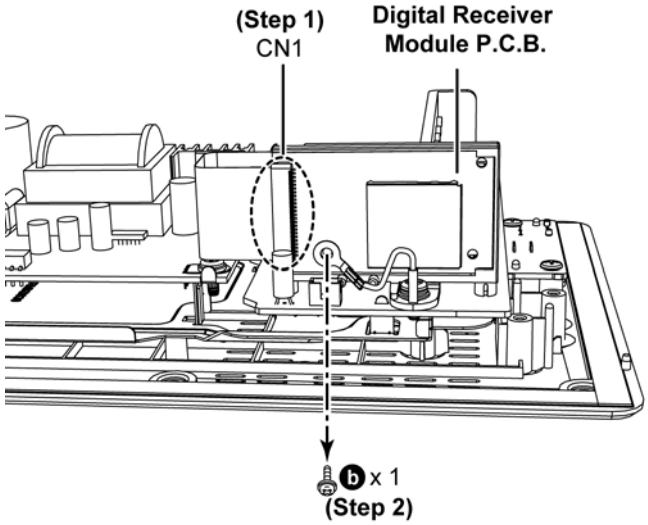
Step 5 : Detach 2P Cable Wire at the connector (CN1005) on the SW DAMP P.C.B..
Step 6 : Remove the Rear Panel Block.



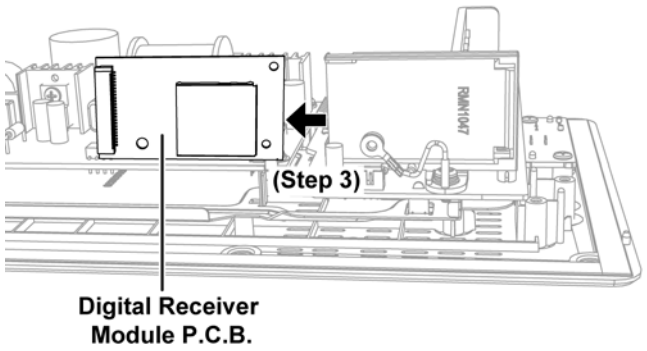
11.7.2. Disassembly of Digital Receiver Module P.C.B.

• Refer to “Disassembly of Rear Panel Block”.

Step 1 : Detach 24P FFC at the connector (CN1) on the Digital Receiver Module P.C.B..
Step 2 : Remove 1 screw.



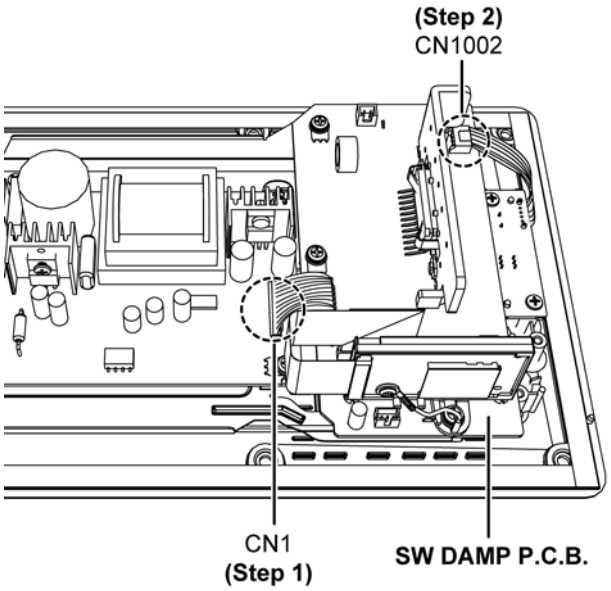
Step 3 : Remove the Digital Receiver Module P.C.B..



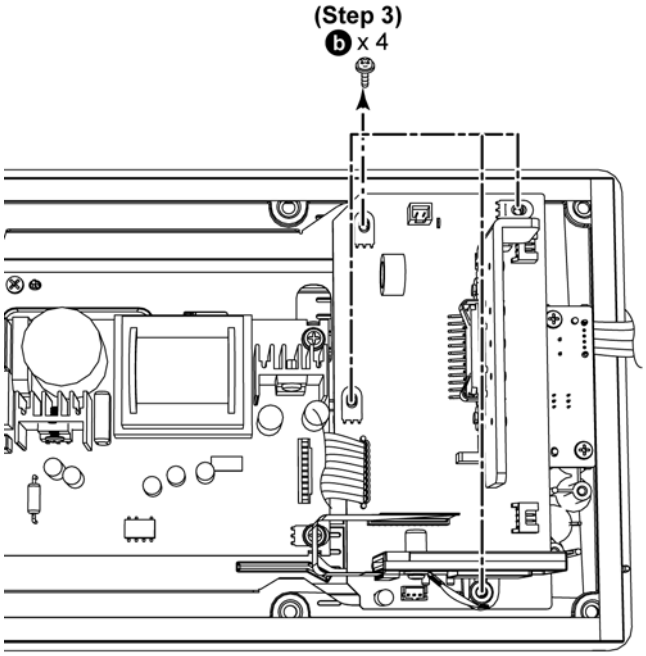
11.7.3. Disassembly of SW DAMP P.C.B.

• Refer to “Disassembly of Rear Panel Block”.

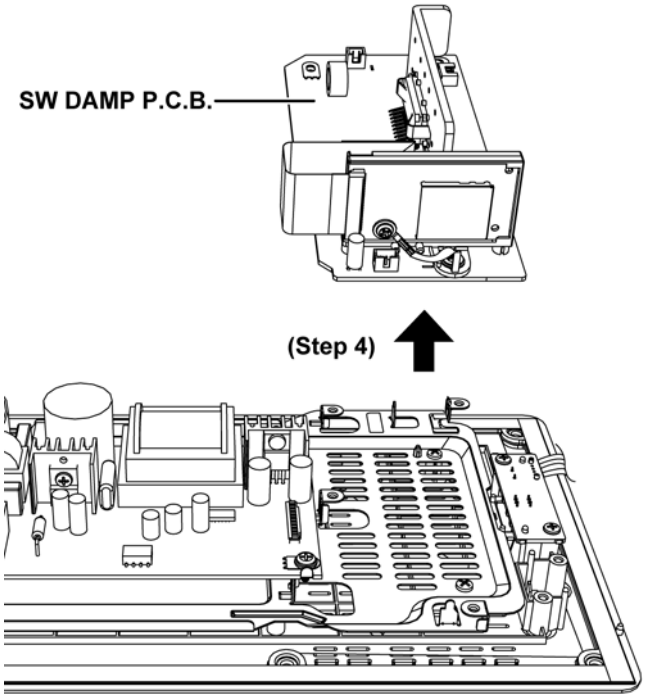
Step 1 : Detach 10P Cable Wire at the connector (CN1) on the SMPS P.C.B..
Step 2 : Detach 4P Cable Wire at the connector (CN1002) on the SW DAMP P.C.B..



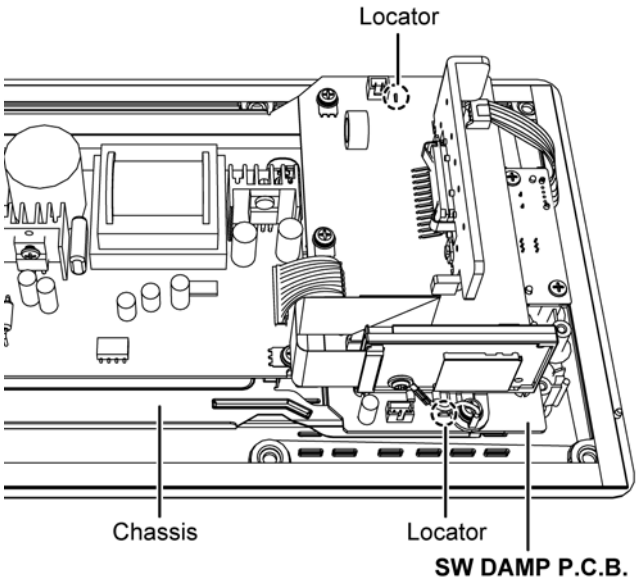
Step 3 : Remove 4 screws.



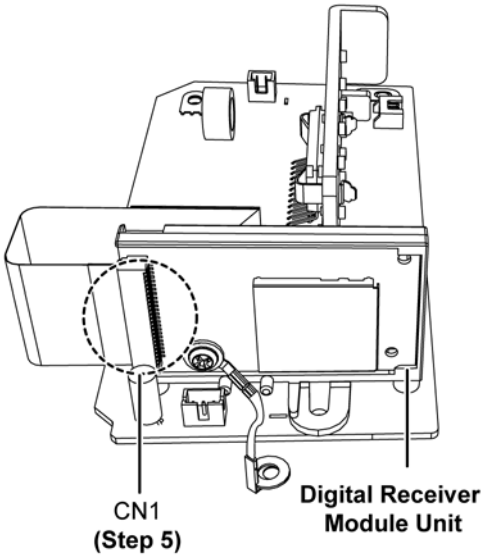
Step 4 : Remove the SW DAMP P.C.B..



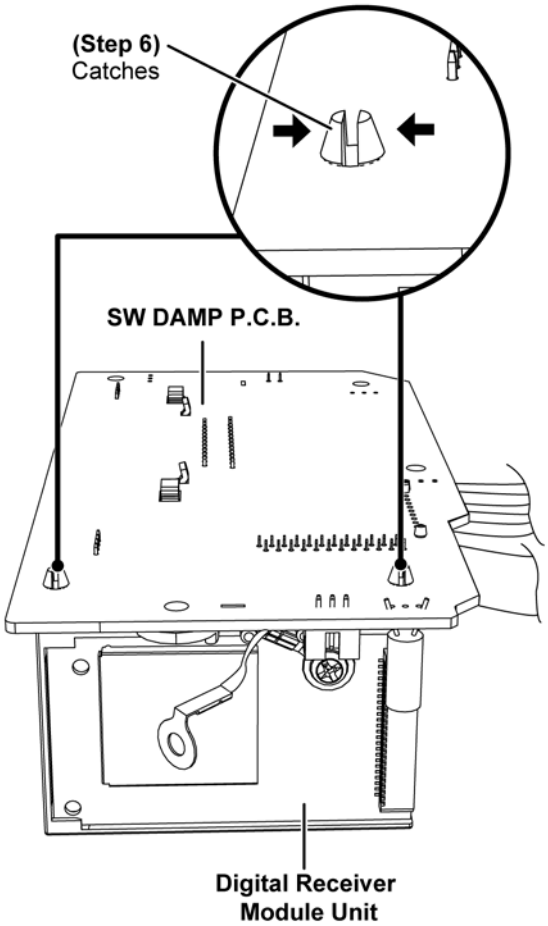
Caution: During assembling, ensure that the SW DAMP P.C.B. is seated properly onto the 2 locators of the chassis.



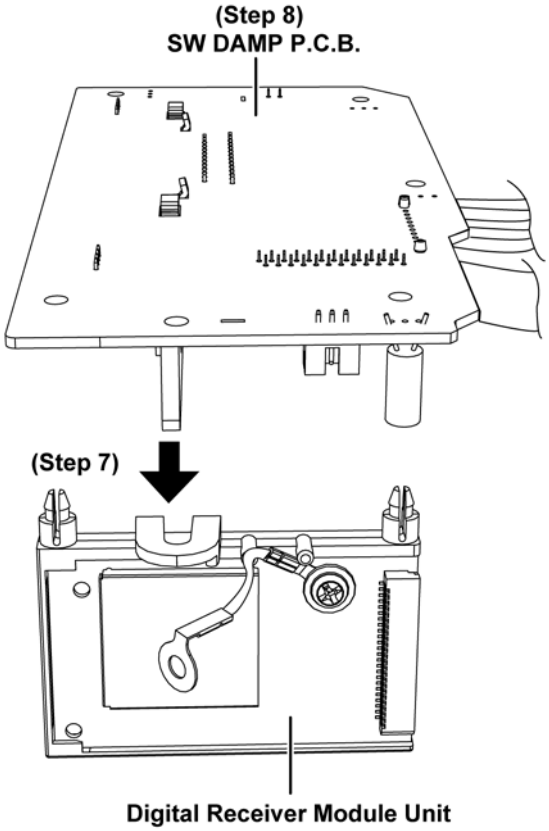
Step 5 : Detach 24P FFC at the connector (CN1) on the Digital Receiver Module P.C.B..



Step 6 : Upset the SW DAMP P.C.B. to release the catches.



Step 7 : Remove the Digital Receiver Module Unit.
Step 8 : Remove the SW DAMP P.C.B..



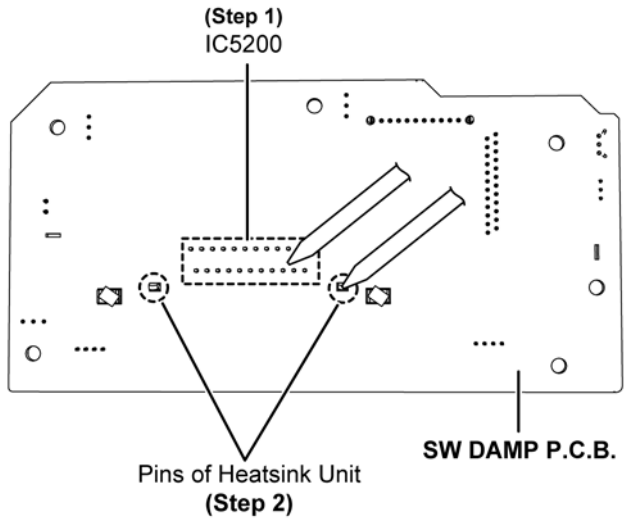
11.7.4. Replacement of Digital Amplifier IC (IC5200)

• Refer to “Disassembly of SW DAMP P.C.B.”.

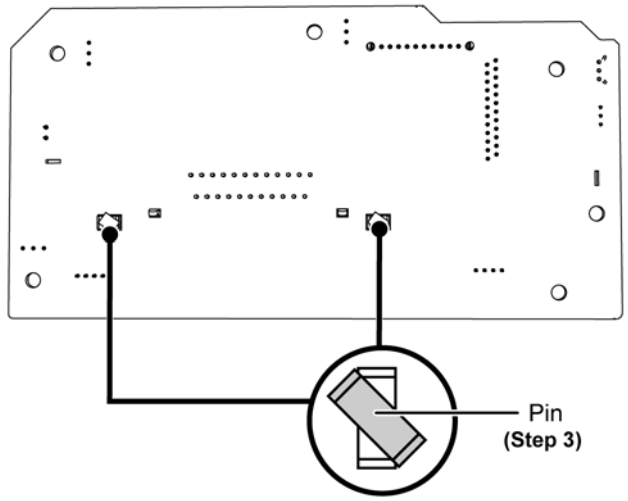
11.7.4.1. Disassembly of Digital Amplifier IC (IC5200)

Caution: Handle the SW DAMP P.C.B. with caution. Avoid touching the Heatsink unit due to its high temperature after prolonged use. Touching is may lead to injuries

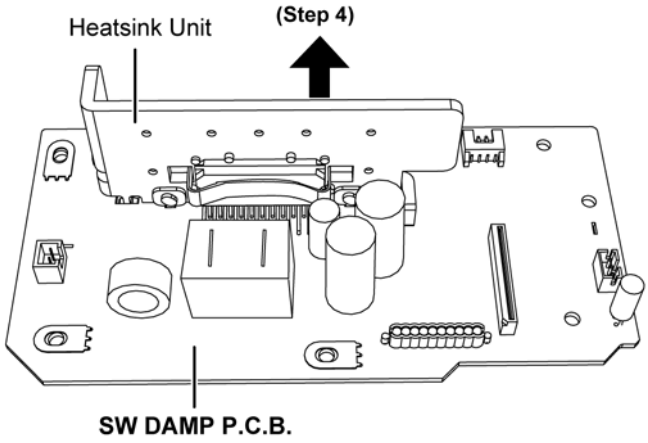
Step 1 : Desolder the pins of Digital Amplifier IC (IC5200) on the solder side of SW DAMP P.C.B..
Step 2 : Desolder the pins of Heatsink Unit on the solder side of SW DAMP P.C.B..



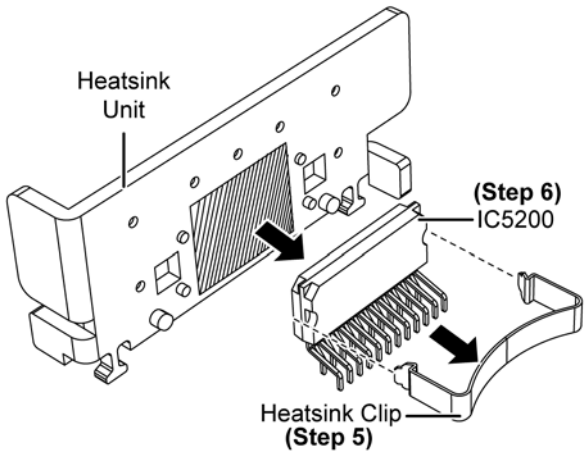
Step 3 : Twist the pins of heatsink unit by 45° in an anti-clockwise or clockwise direction.



Step 4 : Remove the Heatsink Unit and the Digital Amplifier IC (IC5200).

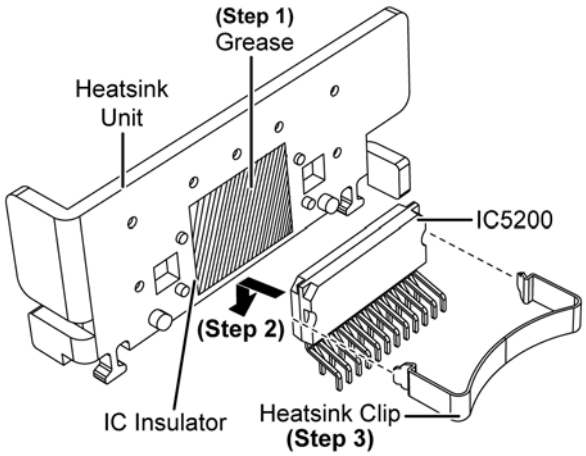


Step 5 : Remove the Heatsink Clip.
Step 6 : Remove the Digital Amplifier IC (IC5200).

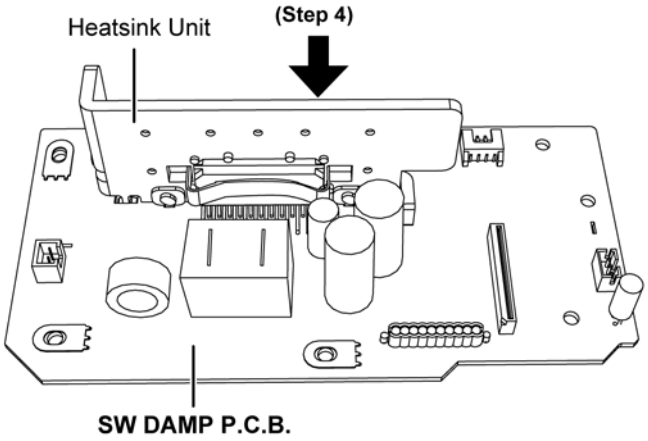


11.7.4.2. Assembly of Digital Amplifier IC (IC5200)

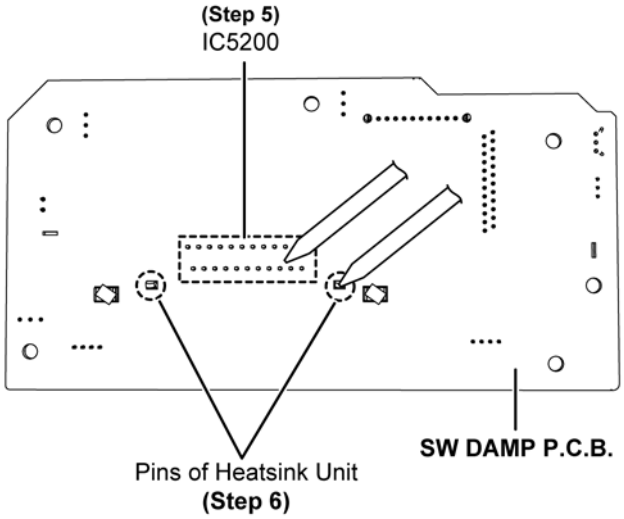
Step 1 : Apply grease on the IC Insulator at the Heatsink Unit.
Step 2 : Fix the Digital Amplifier IC (IC5200) onto the SW DAMP P.C.B..
Step 3 : Fix the Heatsink Clip onto the Heatsink Unit.
Caution : Ensure that the Heatsink Clip is catched properly onto the Heatsink Unit.



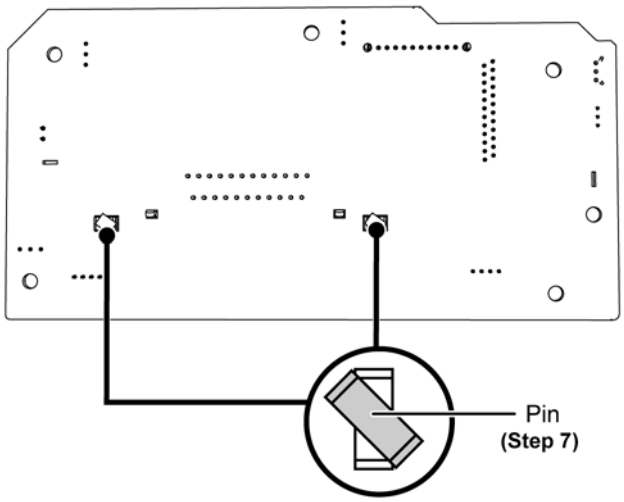
Step 4 : Fix the Heatsink Unit together with Digital Amplifier IC (IC5200) onto the SW DAMP P.C.B..



Step 5 : Solder the pins of the Digital Amplifier IC (IC5200).
Step 6 : Solder the pins of Heatsink Unit.



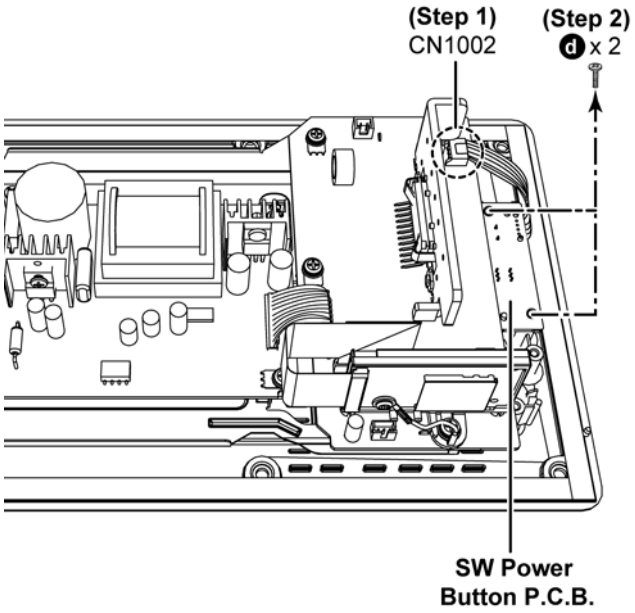
Step 7 : Twist the pins of the Heatsink Unit by 45° in an anti-clockwise or clockwise direction.



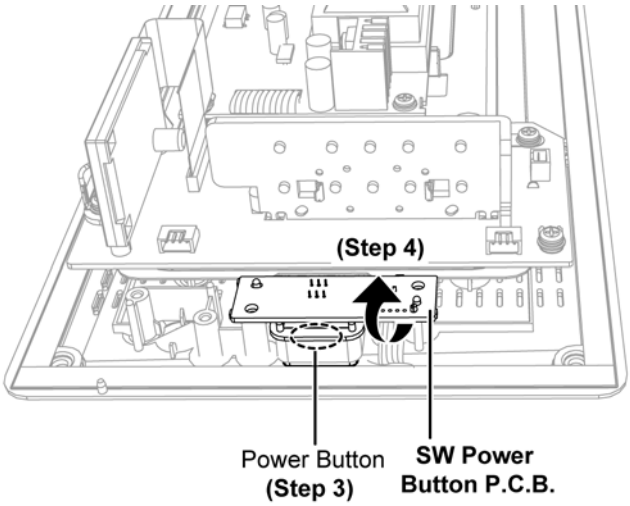
11.7.5. Disassembly of Power Button P.C.B.

• Refer to “Disassembly of Rear Panel Block”.

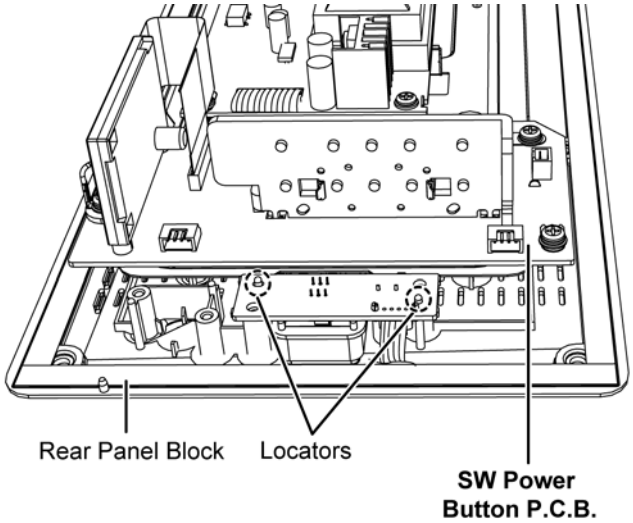
Step 1 : Detach 4P Cable Wire at the connector (CN1002) on the SW DAMP P.C.B..
Step 2 : Remove 2 screws.



Step 3 : Press to hold down the Power Button.
Step 4 : Slightly lift up and slide out to remove the SW Power Button P.C.B..



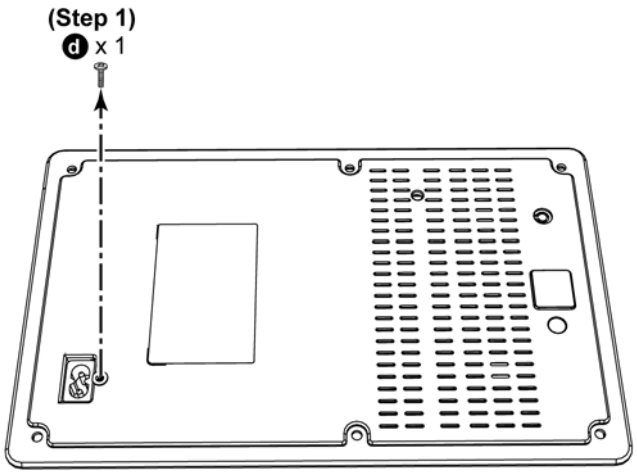
Caution : During assembling, ensure that the SW Power Button P.C.B. is seated properly onto the 2 locators of the Rear Panel Block.



11.7.6. Disassembly of SW SMPS and SW AC Inlet P.C.B.

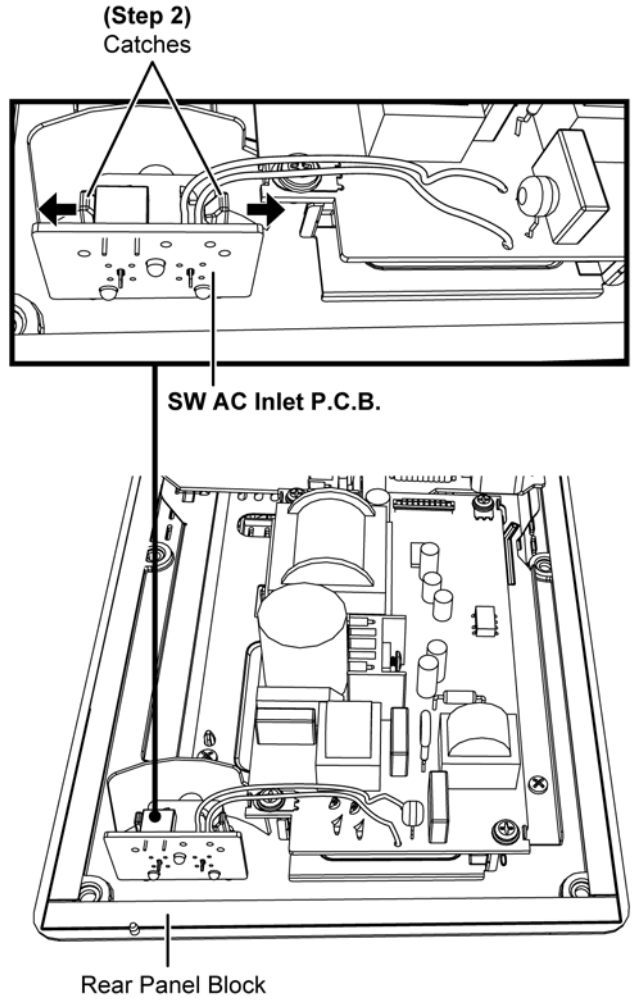
• Refer to “Disassembly of Rear Panel Block”.

Step 1 : Remove 1 screw.



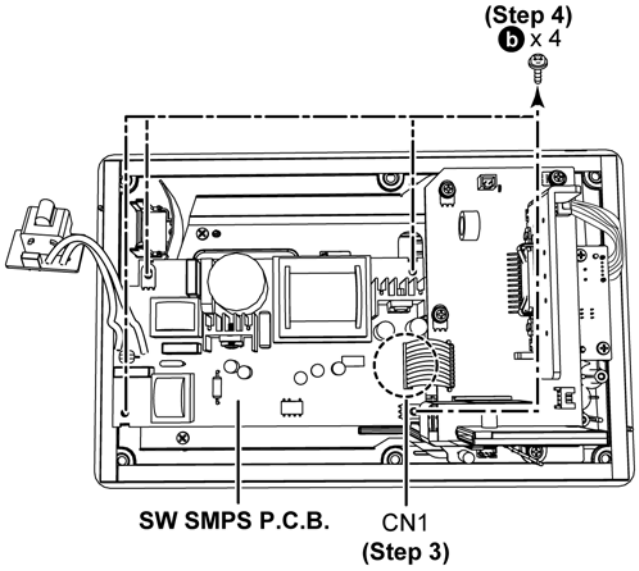
Step 2 : Release 2 catches.

Caution : During assembling, ensure that the SW AC Inlet P.C.B. is catched properly onto the Rear Panel Block.

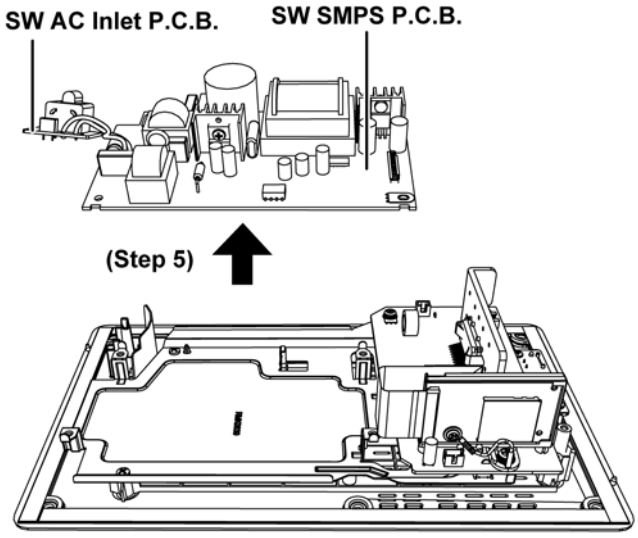


Step 3 : Detach 10P Cable Wire at the connector (CN1) on the SW SMPS P.C.B..

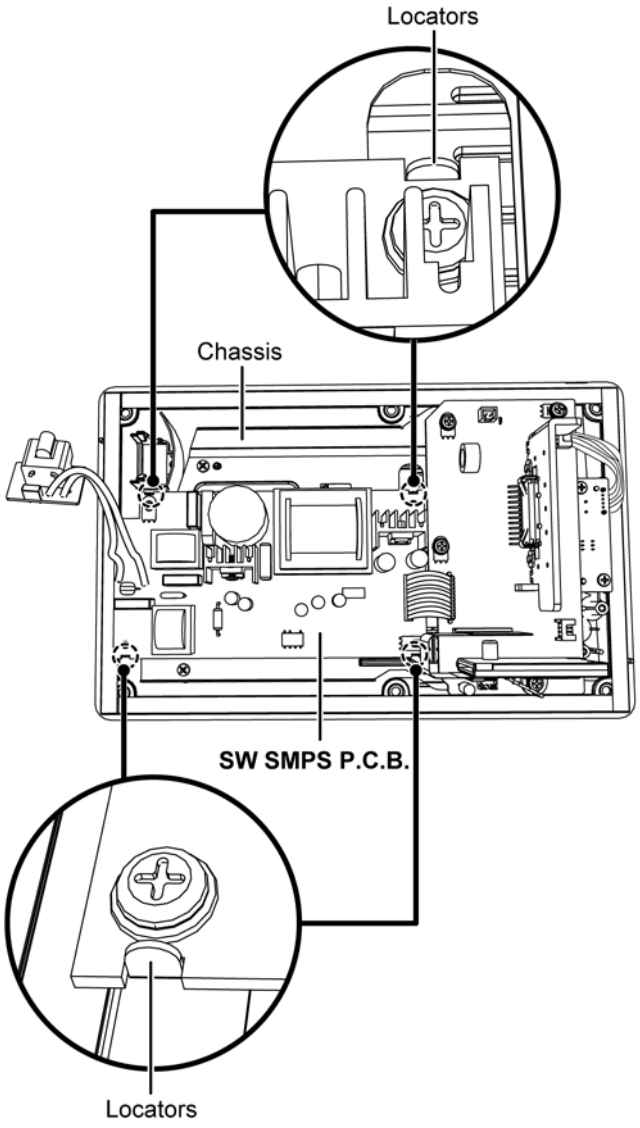
Step 4 : Remove 4 screws.



Step 5 : Remove the SW SMPS and SW AC Inlet P.C.B..



Caution : During assembling, ensure that the SW SMPS P.C.B. is seated properly onto the locators of the chassis.



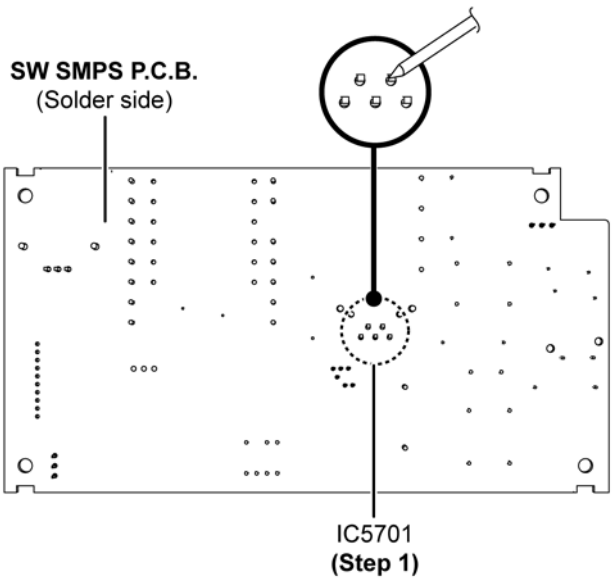
11.7.7. Replacement of Switching Regulator IC (IC5701)

- Refer to “Disassembly of SW SMPS and SW AC Inlet P.C.B.”.

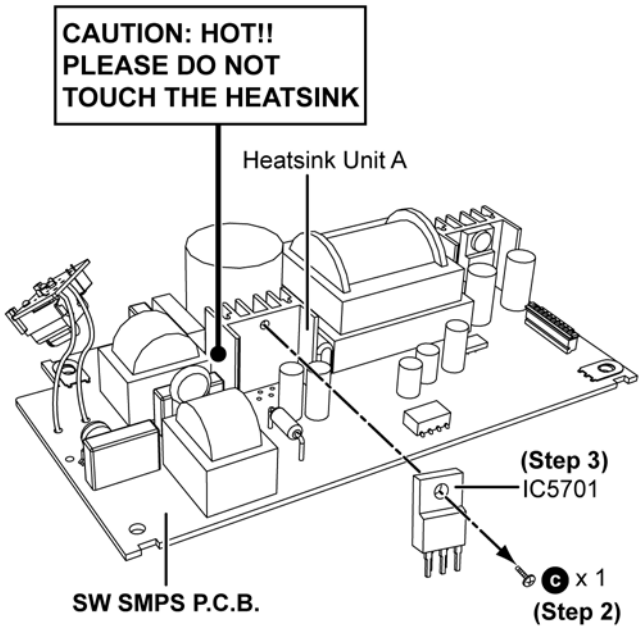
11.7.7.1. Disassembly of Switching Regulator IC (IC5701)

Caution: Handle the SW SMPS P.C.B. with caution. Avoid touching the Heatsink Unit A due to it’s high temperature after prolonged use. Touching it may lead to injuries.

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



Step 2 : Remove 1 screw.
Step 3 : Remove the Switching Regulator IC (IC5701) from the Heatsink Unit A.



11.7.7.2. Assembly of Switching Regulator IC (IC5701)

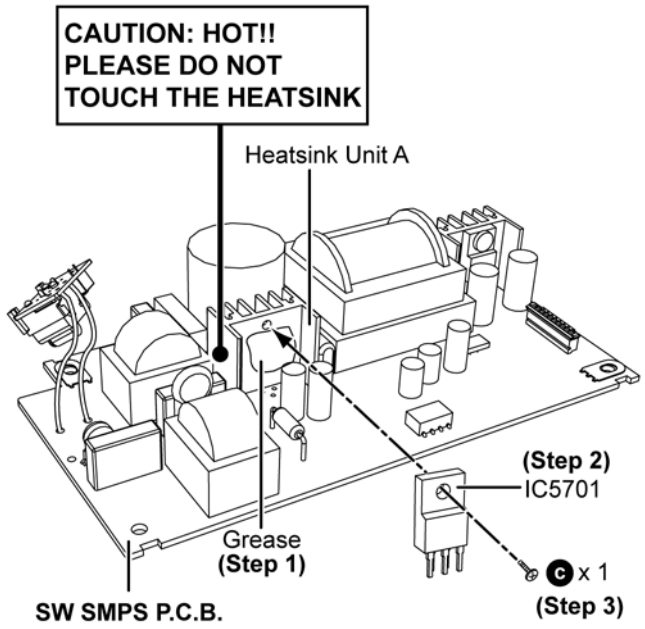
Step 1 : Apply grease on the Heatsink Unit A.

Step 2 : Fix the Switching Regulator IC (IC5701) to the SW SMPS P.C.B..

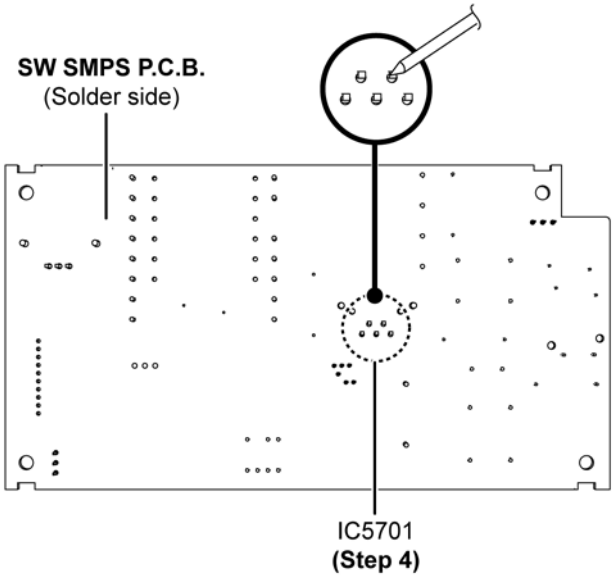
Caution : Ensure the pins of Switching Regulator IC (IC5701) is inserted and seated properly on the SW SMPS P.C.B..

Step 3 : Fix the Switching Regulator IC (IC5701) onto the Heatsink Unit A with a screw.

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



Step 4 : Solder the pins of Switching Regulator IC(IC5701) on the solder side of the SW SMPS P.C.B..



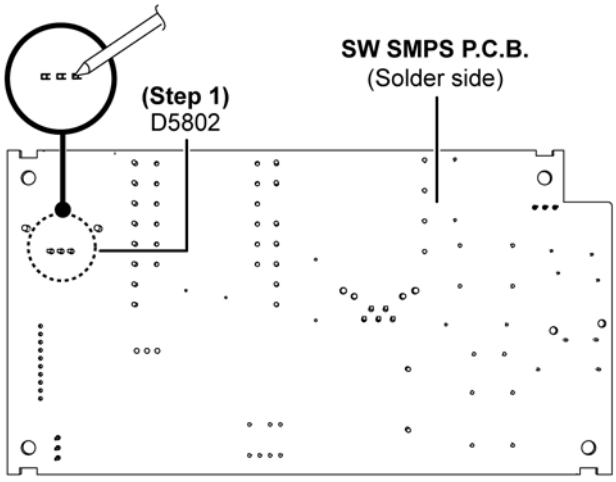
11.7.8. Replacement of Rectifier Diode (D5802)

- Refer to “Disassembly of SW SMPS and SW AC Inlet P.C.B.”.

11.7.8.1. Disassembly of Rectifier Diode (D5802)

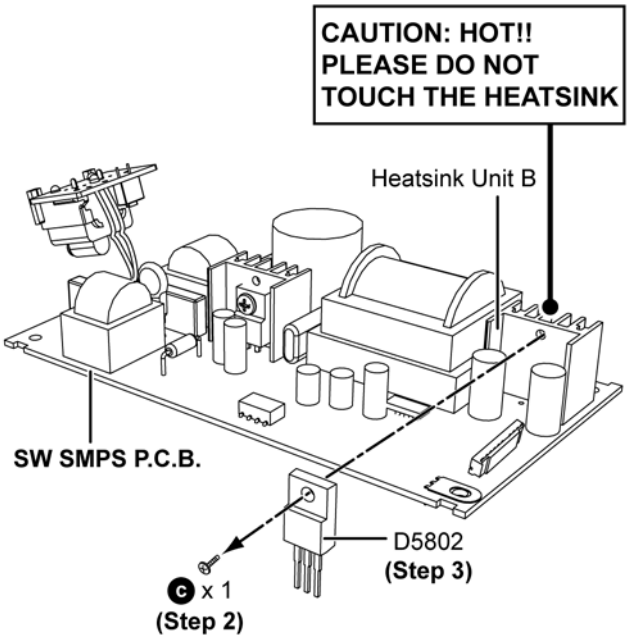
Caution: Handle the SW SMPS P.C.B. with caution. Avoid touching the Heatsink Unit B due to it’s high temperature after prolonged use. Touching it may lead to injuries.

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



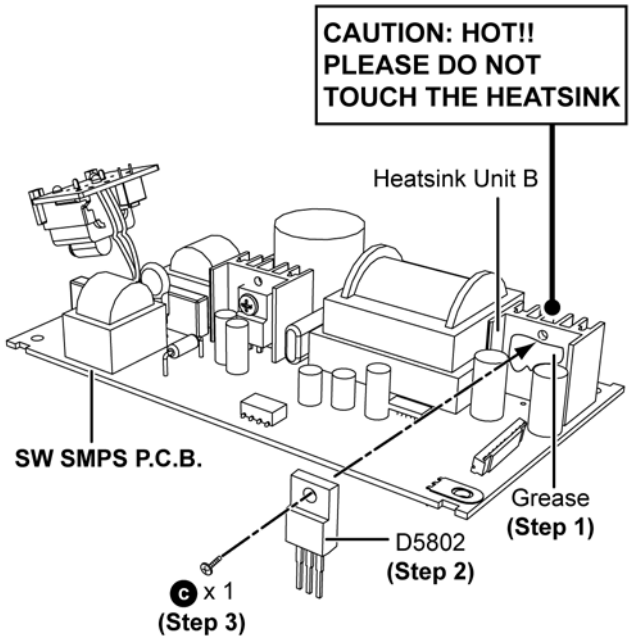
Step 2 : Remove 1 screw.

Step 3 : Remove the Rectifier Diode (D5802) from the Heatsink Unit B.

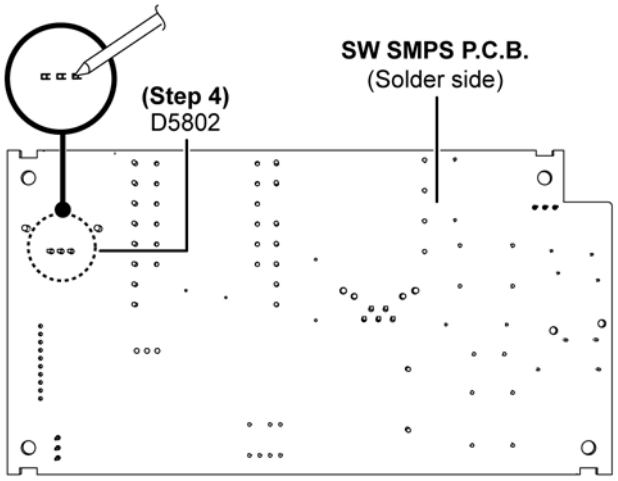


11.7.8.2. Assembly of Rectifier Diode (D5802)

Step 1 : Apply grease on the Heatsink Unit B.
Step 2 : Fix the Rectifier Diode (D5802) to the SW SMPS P.C.B..
Caution : Ensure the pins of Rectifier Diode (D5802) is inserted and seated properly on the SW SMPS P.C.B..
Step 3 : Fix the Rectifier Diode (D5802) onto the Heatsink Unit B with a screw.
Caution : Ensure the Rectifier Diode (D5802) is tightly screwed to the Heatsink Unit B.

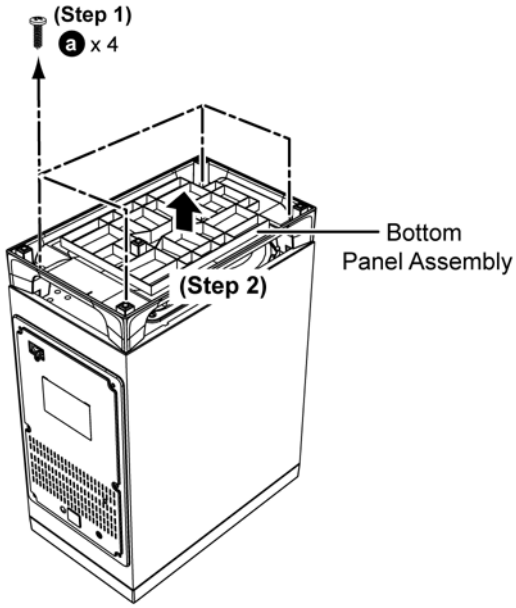


Step 4 : Solder the pins of the Rectifier Diode (D5802) on the solder side of the SW SMPS P.C.B..



11.7.9. Disassembly of Bottom Panel Assembly

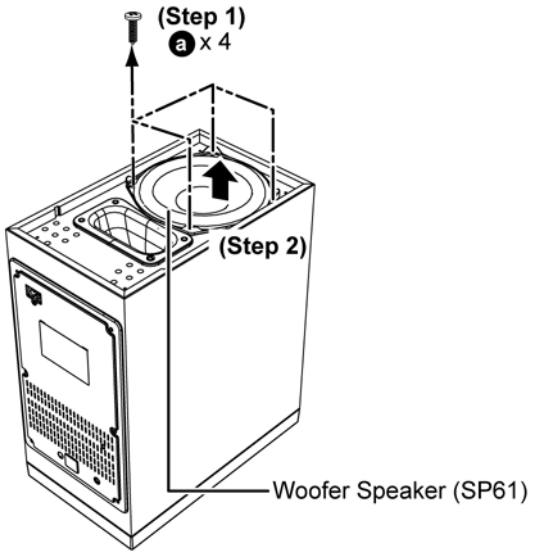
Step 1 : Remove 4 screws.
Step 2 : Remove the Bottom Panel Assembly.



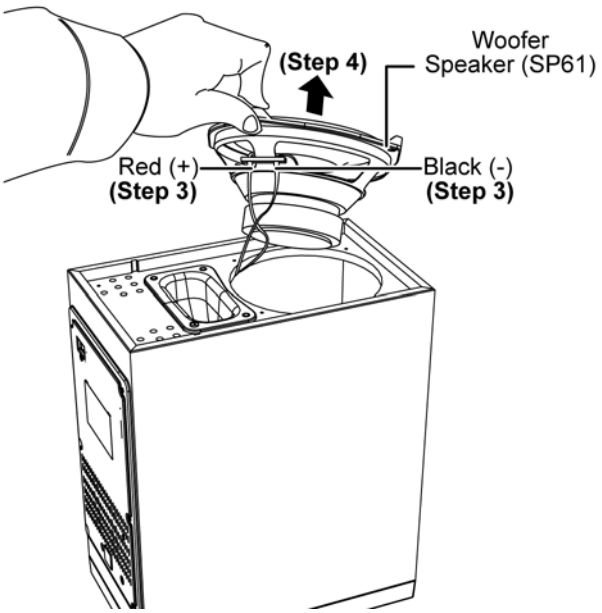
11.7.10. Disassembly of Woofer Speaker (SP61)

• Refer to “Disassembly of Bottom Panel Assembly”.

Step 1 : Remove 4 screws.
Step 2 : Slightly lift up the Woofer Speaker (SP61).



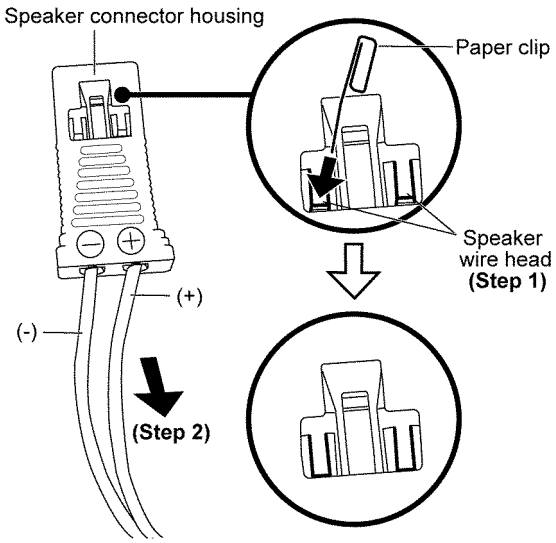
Step 3 : Detach the Red (+) wire and Black (-) wire from the terminal of the Woofer Speaker (SP61).
Step 4 : Remove the Woofer Speaker (SP61).



11.7.11. Replacement of Speaker Connector Housing

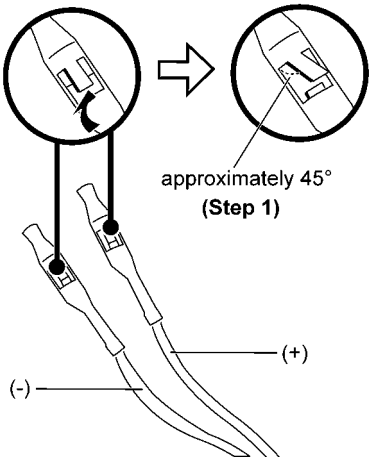
11.7.11.1. Disassembly of Speaker Connector Housing

Step 1: Use a paper clip push the Speaker Wire head until it hide inside the Speaker Connector Housing.
Step 2: Pull out the (+) and (-) speaker wires.

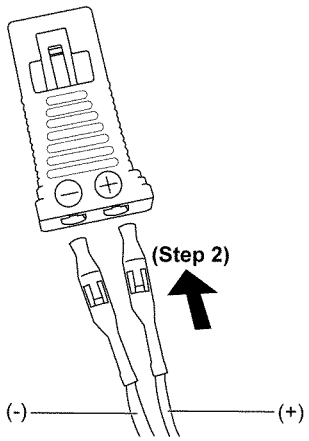


11.7.11.2. Assembly of Speaker Connector Housing

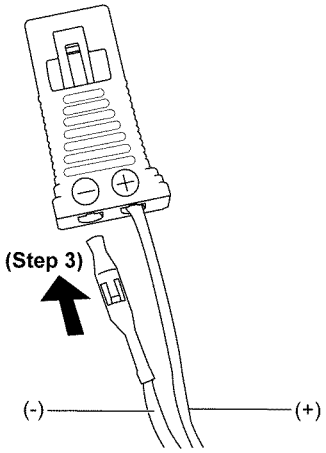
Step 1: Slightly push up the speaker wire head approximately 45° as shown.



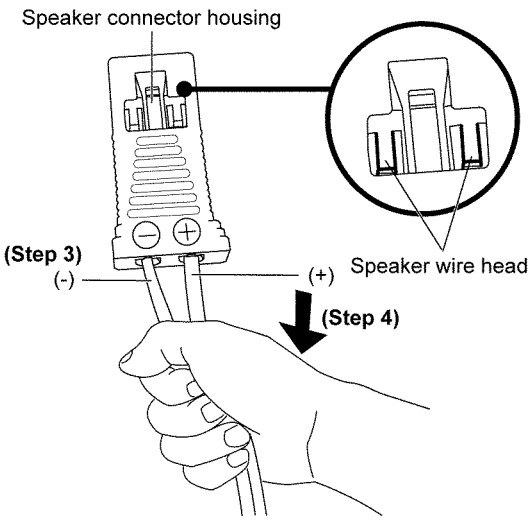
Step 2: Insert the (+) speaker wire into the (+) hole of the Speaker Connector Housing.
Note: Push in the speaker wire until hear the “click” sound.



Step 3: Insert the (-) speaker wire into the (-) hole of the speaker connector housing.
Note: A “click” will be heard when the Speaker Wire is fully inserted.



Step 4: Pull both speaker wires gently to ensure they lock-in firmly.
Note: Repeat step1 to 3 if the speaker wires come out.



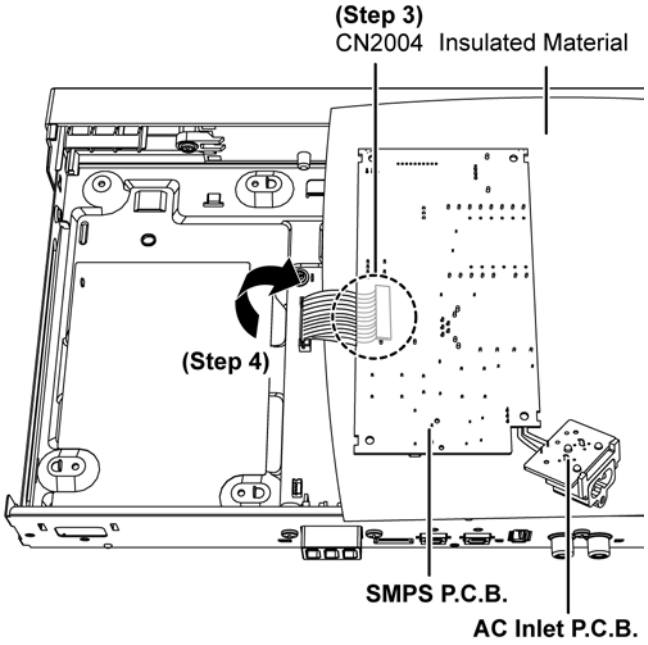
12 Service Position

12.1. Main Unit (SU-HTB370)

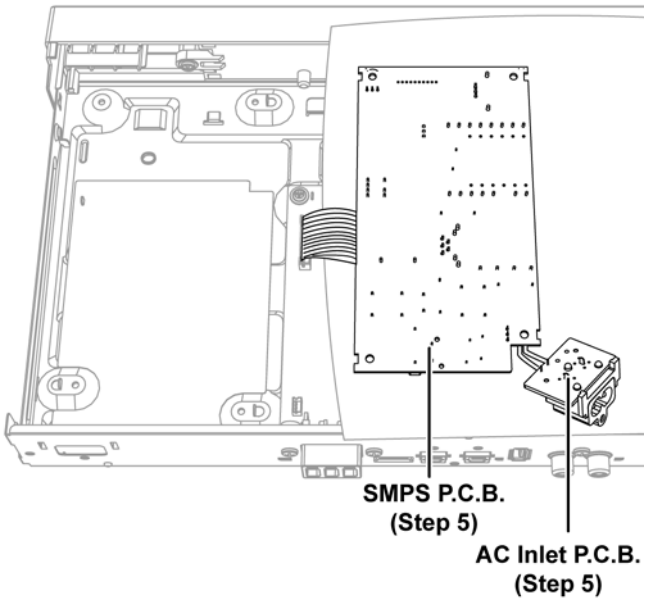
Note: For description of the disassembly procedures, see the Section 11

12.1.1. Checking and Repairing of SMPS and AC Inlet P.C.B.

Step 1 : Remove Top Cabinet.
Step 2 : Remove SMPS and AC Inlet P.C.B..
Step 3 : Attach 10P Cable Wire at the connector (CN2004) on the Main P.C.B..
Step 4 : Upset and place the SMPS and AC Inlet P.C.B. on an insulated material.

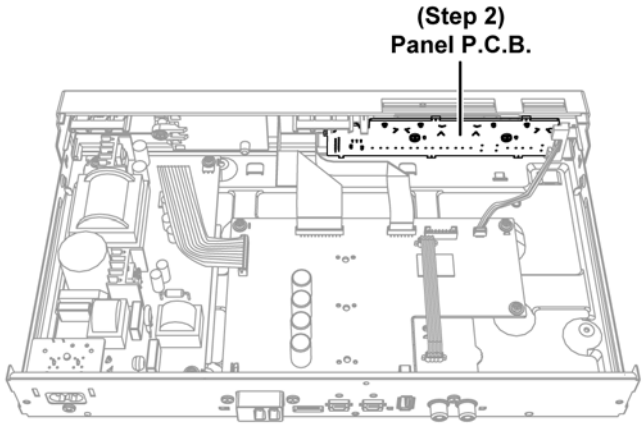


Step 5 : SMPS and AC Inlet P.C.B. can be checked and repaired as diagram shown.



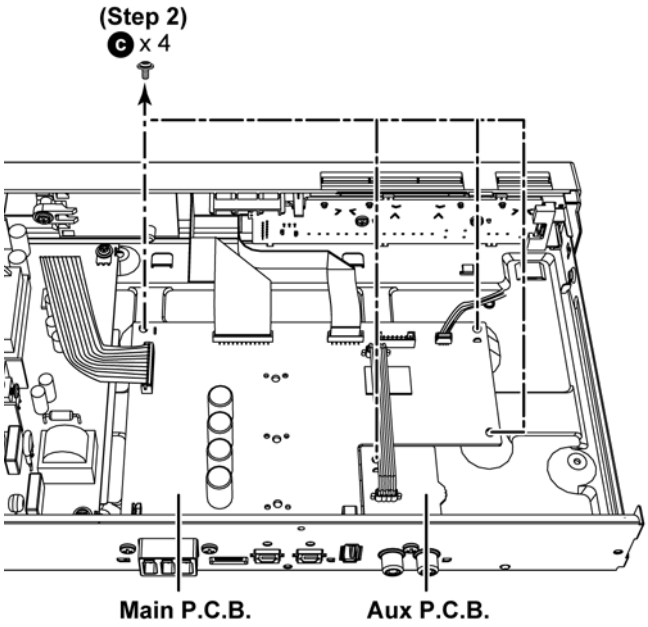
12.1.2. Checking and Repairing of Panel P.C.B.

Step 1 : Remove Top Cabinet.
Step 2 : Panel P.C.B. can be checked as diagram shown.

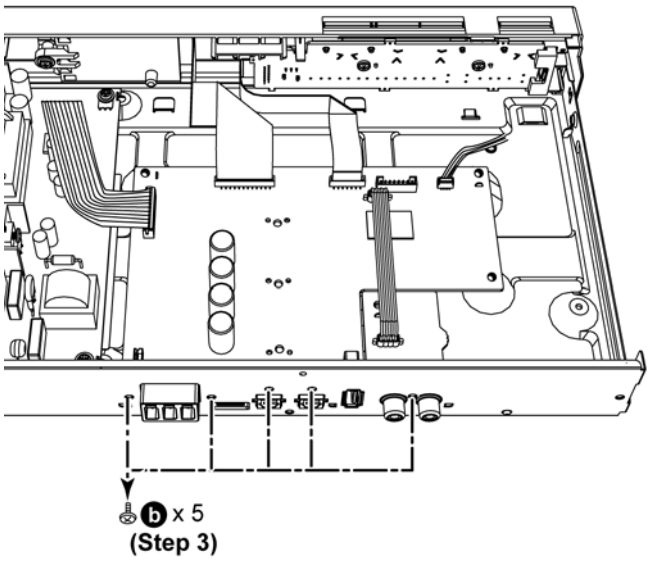


12.1.3. Checking and Repairing of Main P.C.B. (Side A) and Aux P.C.B. (Side A)

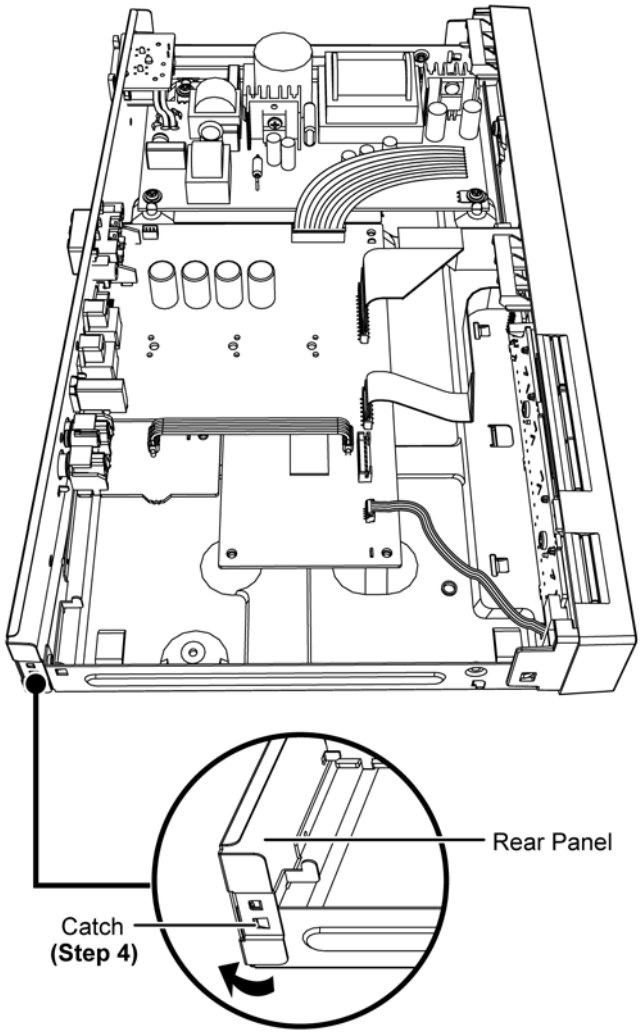
Step 1 : Remove Top Cabinet.
Step 2 : Remove 4 screws.



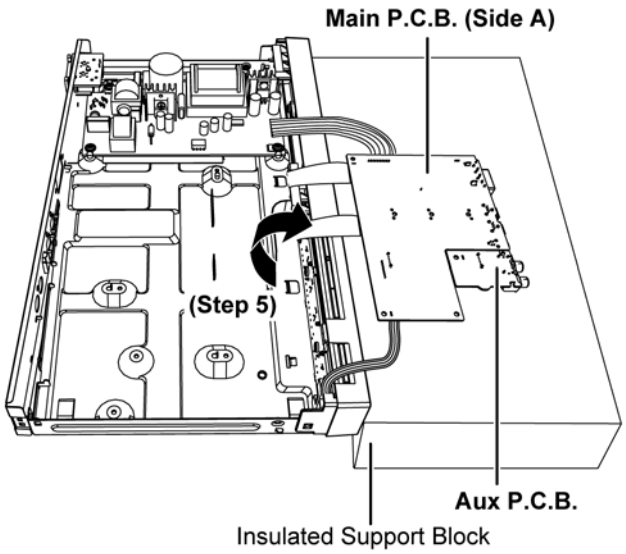
Step 3 : Remove 5 screws.



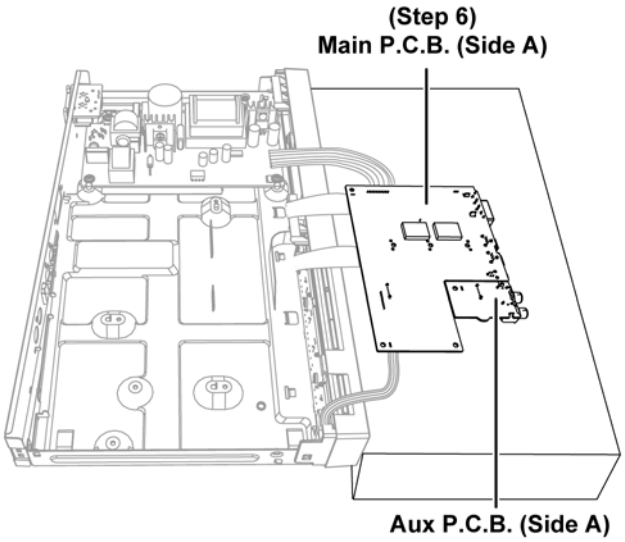
Step 4 : Release the catch on the right side of the Rear Panel slightly.
Caution: During assembling, ensure that the Rear Panel is catched properly onto the chassis.



Step 5 : Upset and place the Main P.C.B. and Aux P.C.B. on an Insulated Support Block as shown.



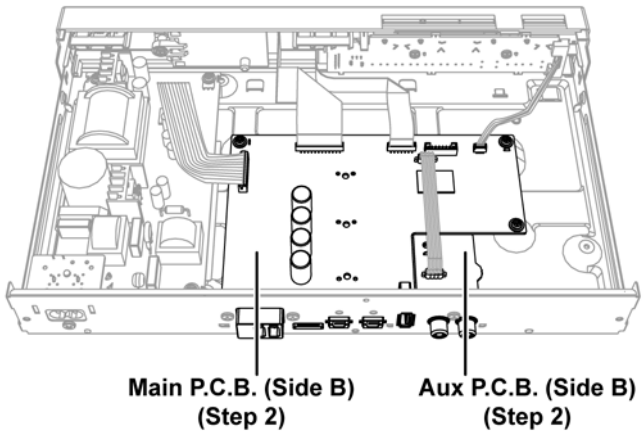
Step 6 : Main P.C.B. (Side A) and Aux P.C.B. (Side A) can be checked as diagram shown..



12.1.4. Checking and Repairing of Main P.C.B. (Side B) and Aux P.C.B. (Side B)

Step 1 : Remove Top Cabinet.

Step 2 : Main P.C.B. (Side B) & Aux P.C.B. (Side B) can be checked as diagram shown.



12.2. Active Subwoofer (SB-HWA370)

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

12.2.1. Checking and Repairing of SW SMPS and SW DAMP P.C.B.

Step 1 : Remove SW DAMP P.C.B..

Step 2 : Remove SW Power Button P.C.B..

Step 3 : Remove SW SMPS and SW AC Inlet P.C.B..

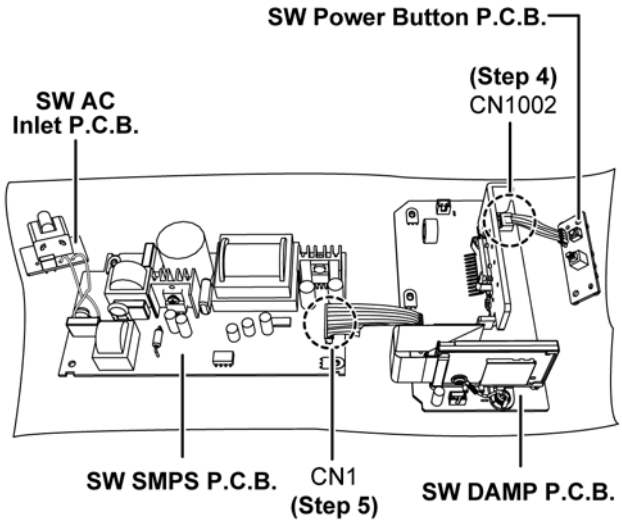
Step 4 : Attach 4P Cable Wire at the connector (CN1002) on the SW DAMP P.C.B..

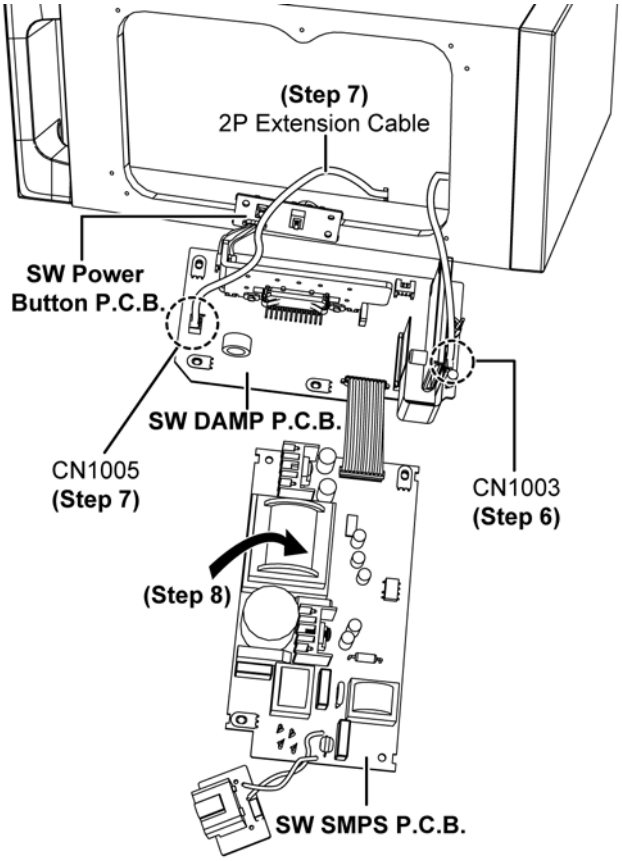
Step 5 : Attach 10P Cable Wire at the connector (CN1) on the SW SMPS P.C.B..

Step 6 : Attach 3P Cable Wire at the connector (CN1003) on the SW DAMP P.C.B..

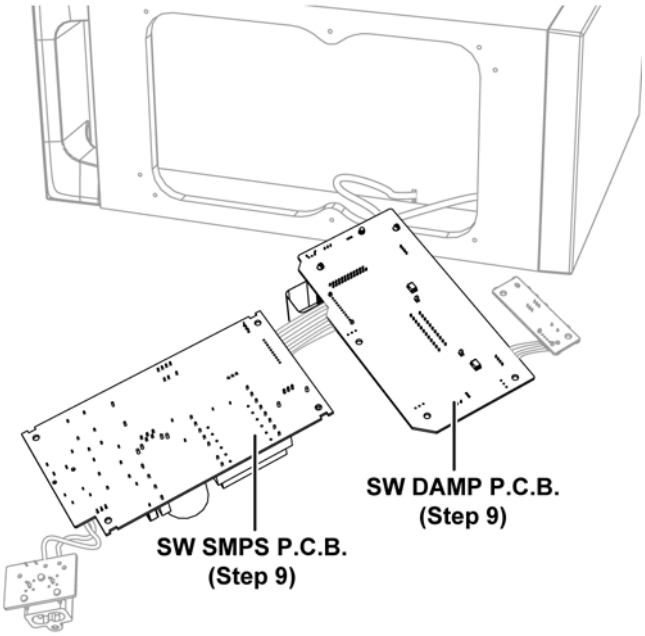
Step 7 : Attach 2P Extension Cable (REXX1194) from the Speaker Cable to the connector (CN1005) on the SW DAMP P.C.B..

Step 8 : Upset the SW SMPS P.C.B., SW DAMP P.C.B and SW Power Button P.C.B. as shown.





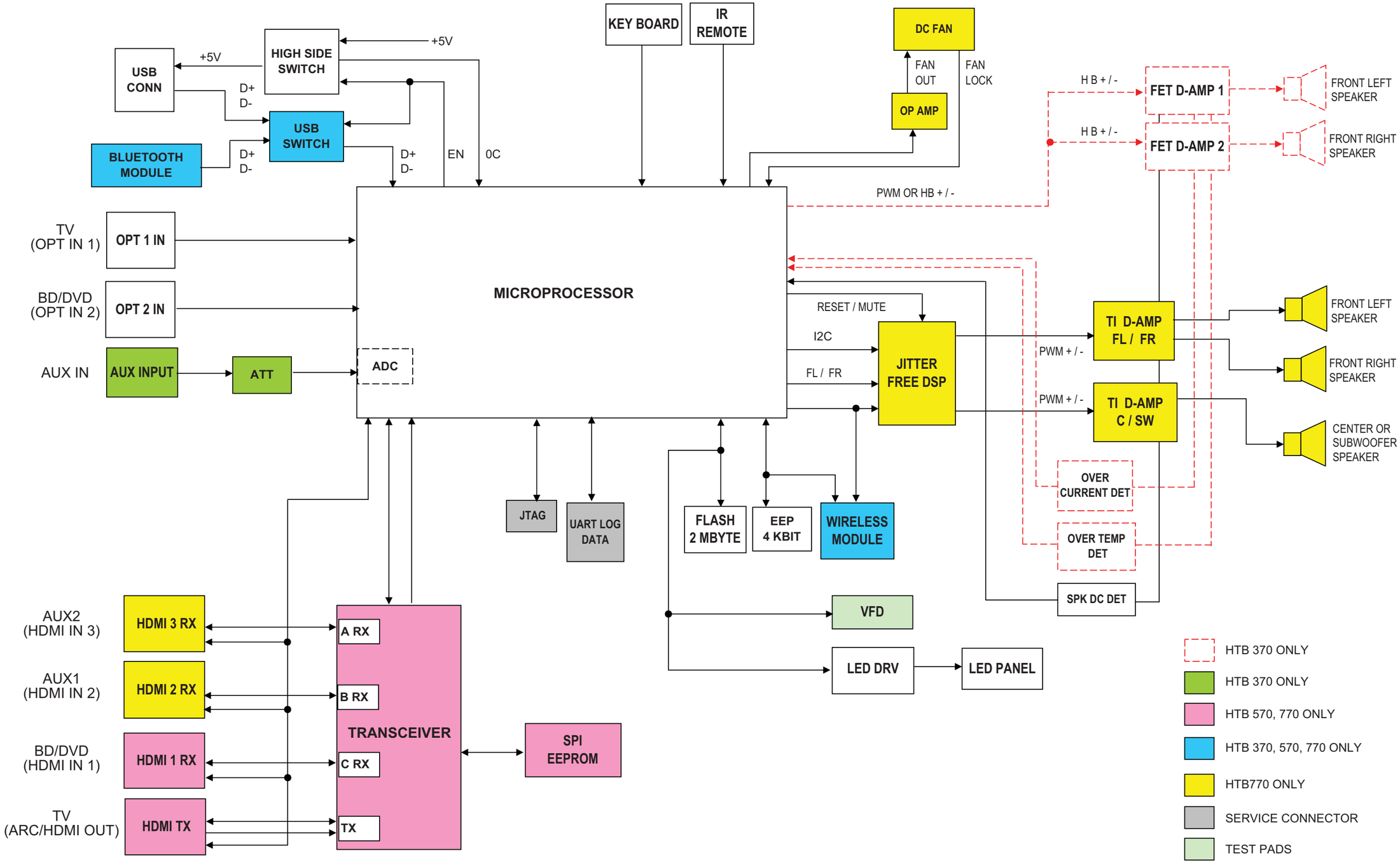
Step 9 : SW DAMP P.C.B. and SW SMPS P.C.B. can be checked as diagram shown.



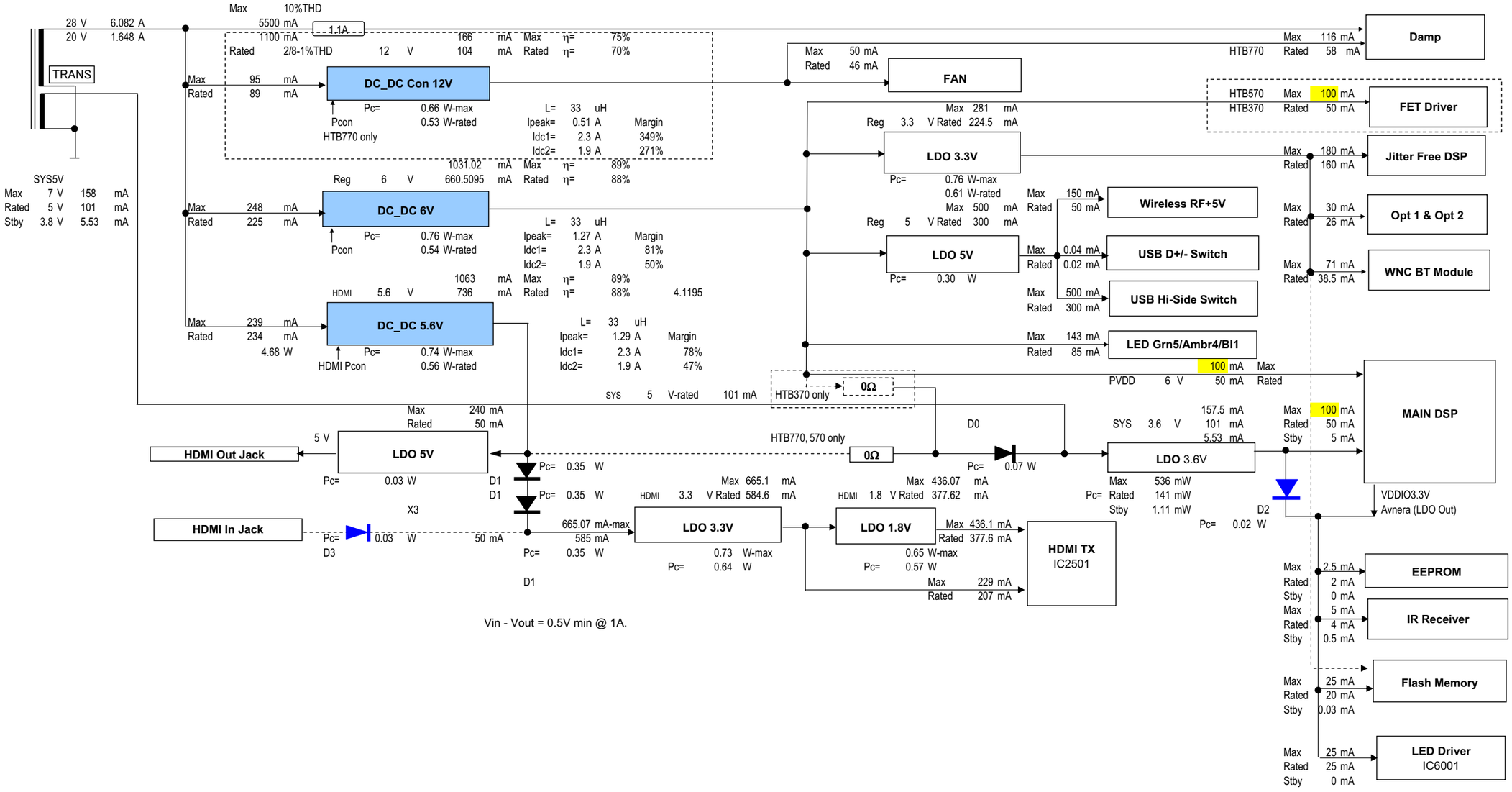
13 Overall Simplified Block

13.1. Main Unit (SU-HTB370)

13.1.1. Overall Control Diagram



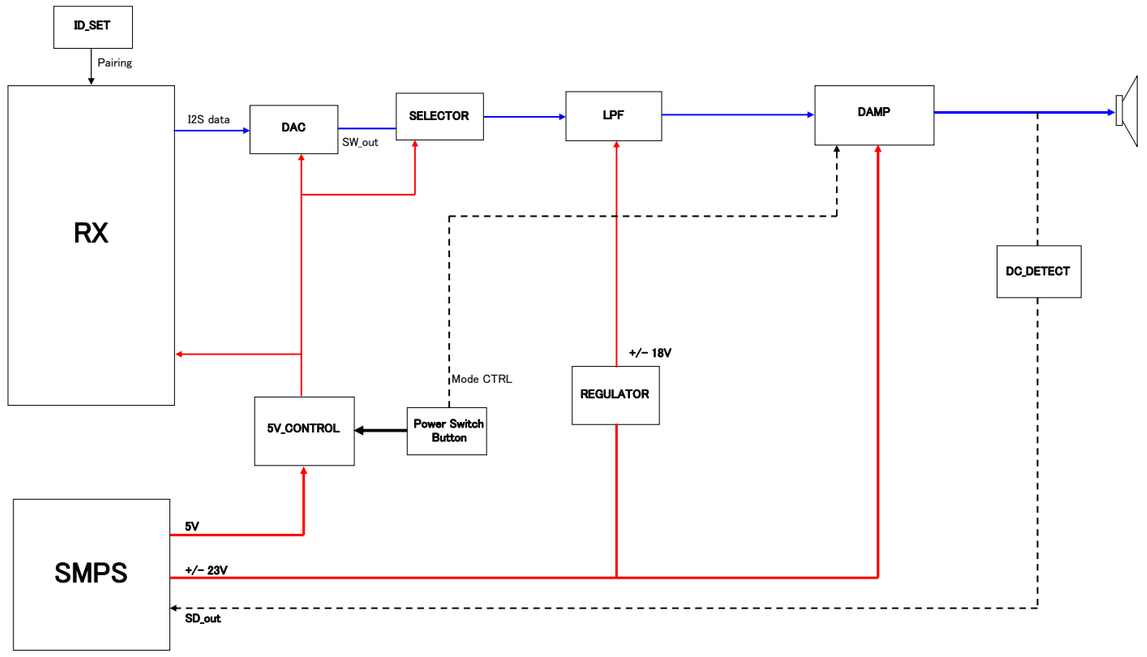
13.1.2. Power Supply Diagram



Vin - Vout = 0.5V min @ 1A.

13.2. Active Subwoofer (SB-HWA370)

13.2.1. Overall Control Diagram

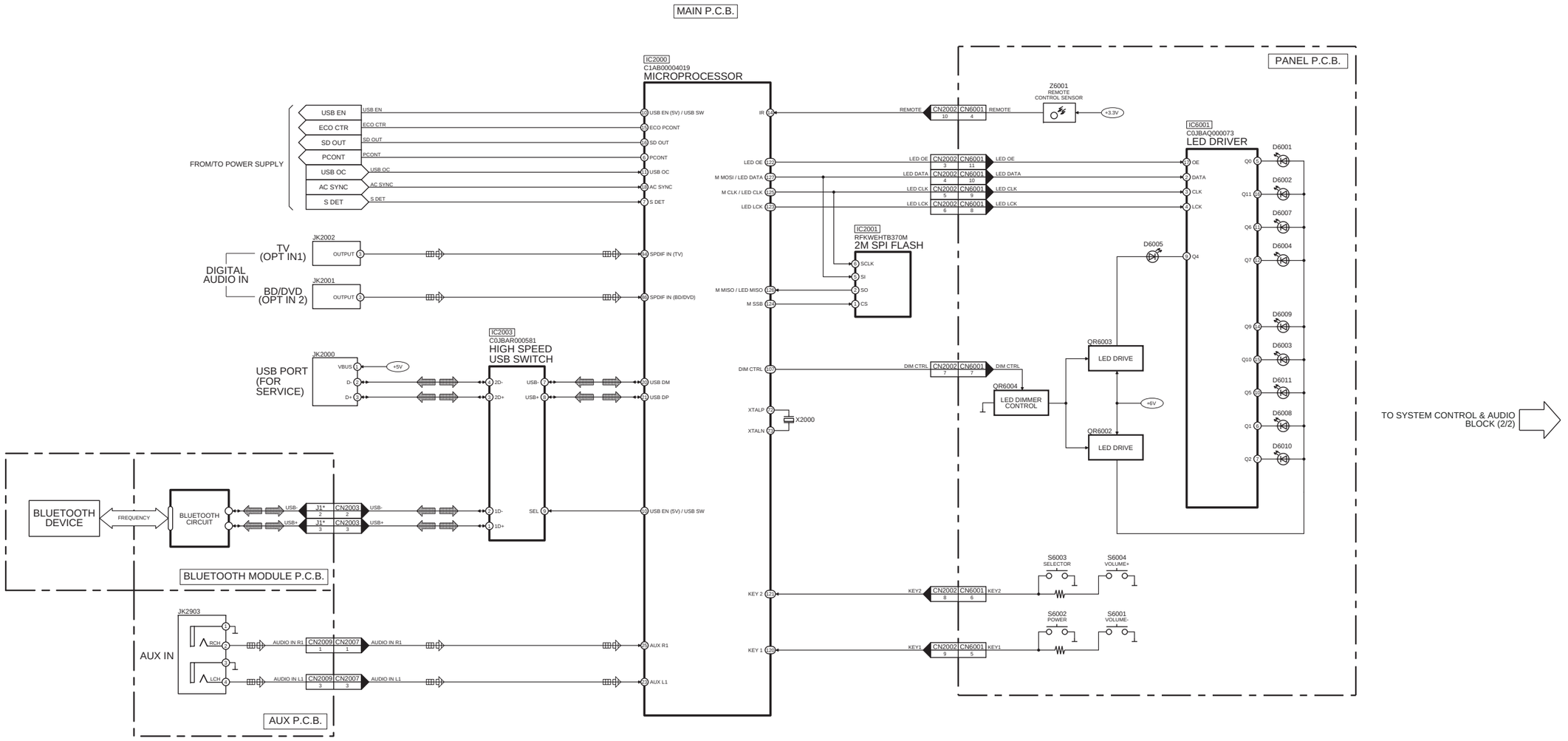


14 Block Diagram

14.1. Main Unit (SU-HTB370)

14.1.1. SYSTEM CONTROL & AUDIO (1/2) BLOCK DIAGRAM

: OPTICAL/AUX AUDIO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : USB/BLUETOOTH SIGNAL LINE

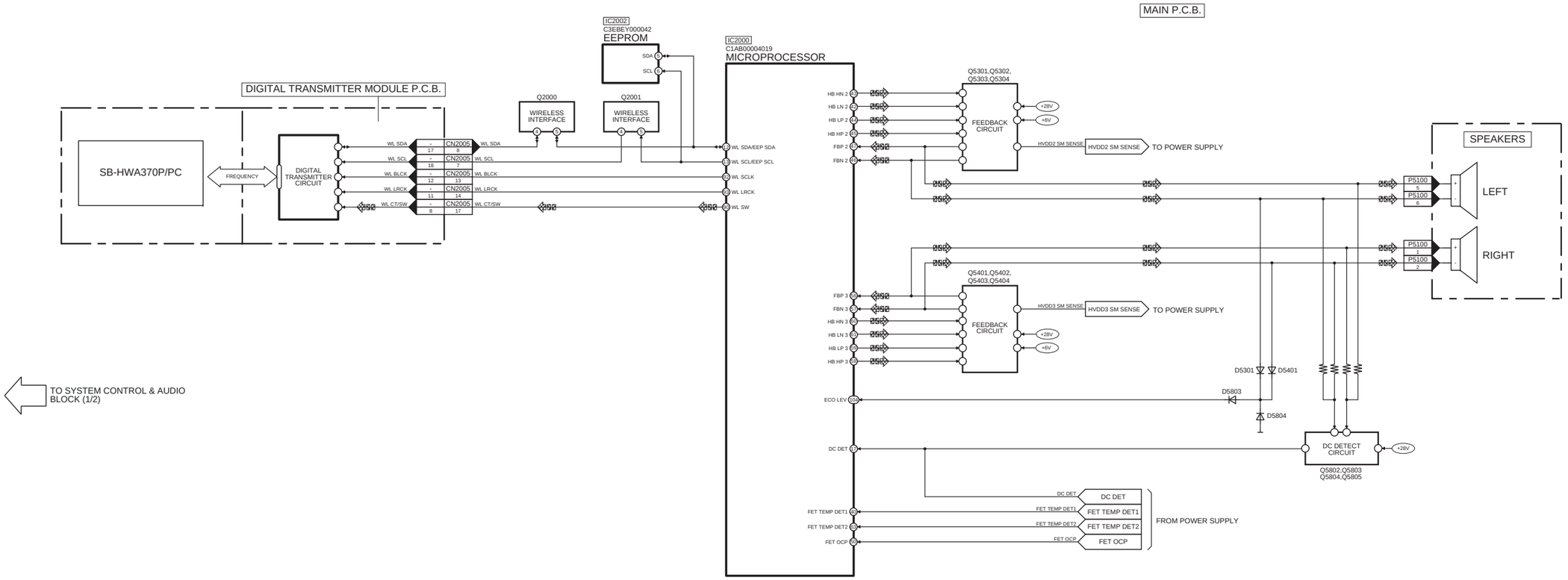


NOTE: " * " REF IS FOR INDICATION ONLY

SC-HTB370P/PC(SU-HTB370P/PC) SYSTEM CONTROL & AUDIO (1/2) BLOCK DIAGRAM

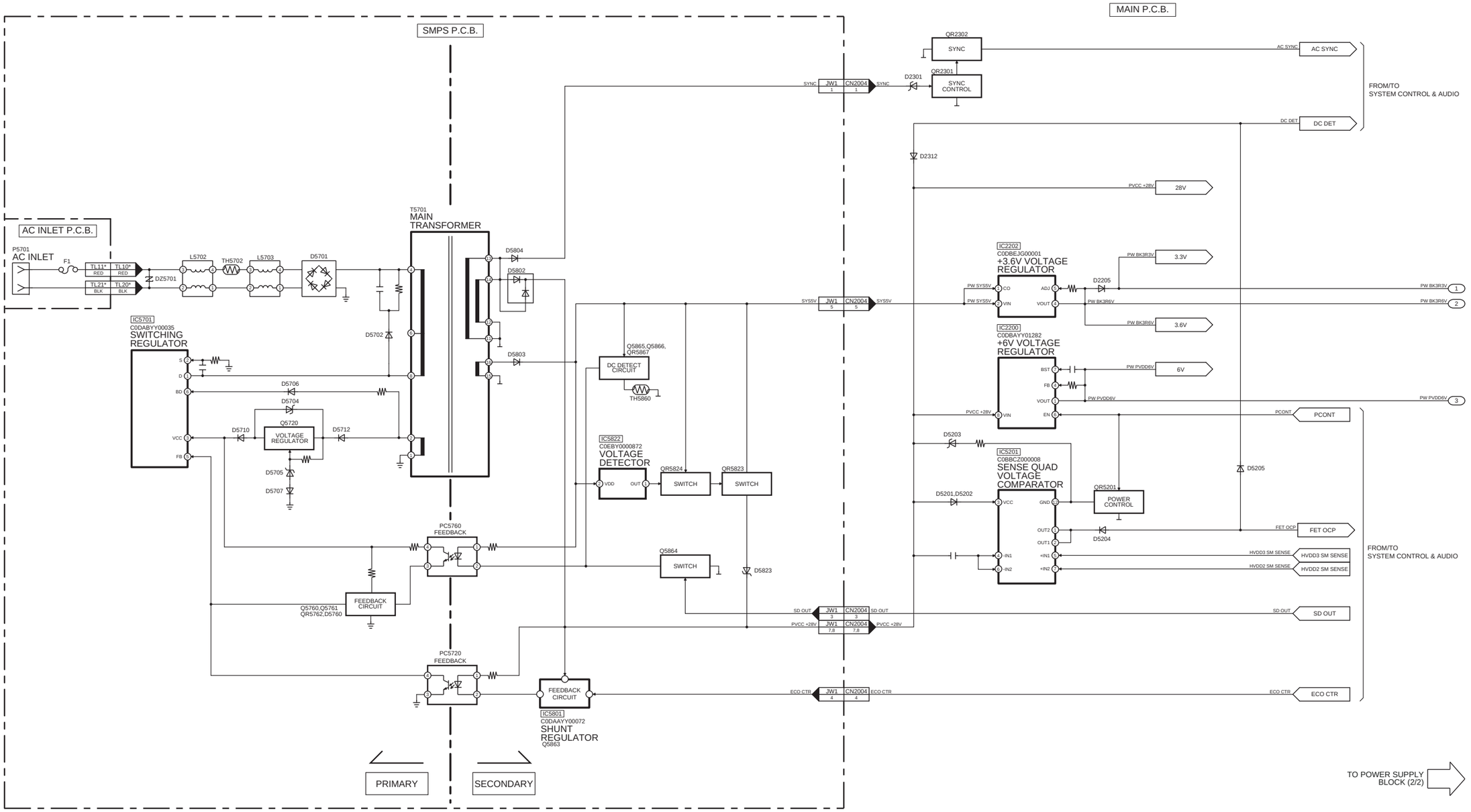
14.1.2. SYSTEM CONTROL & AUDIO (2/2) BLOCK DIAGRAM

: OPTICAL/AUX AUDIO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : USB/BLUETOOTH SIGNAL LINE



NOTE: " * " REF IS FOR INDICATION ONLY

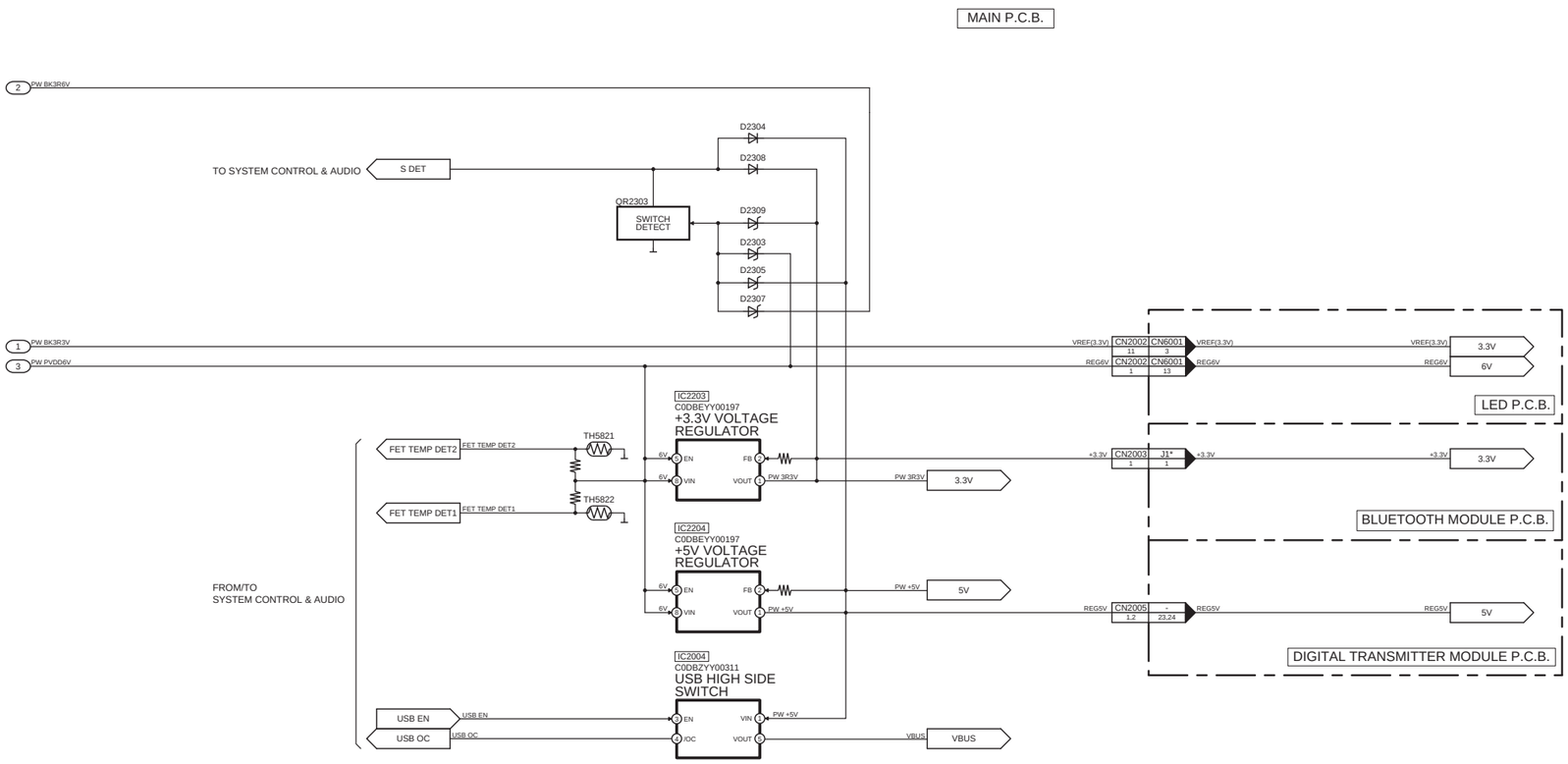
14.1.3. POWER SUPPLY (1/2) BLOCK DIAGRAM



NOTE: " * " REF IS FOR INDICATION ONLY

SC-HTB370P/PC(SU-HTB370P/PC) POWER SUPPLY (1/2) BLOCK DIAGRAM

14.1.4. POWER SUPPLY (2/2) BLOCK DIAGRAM



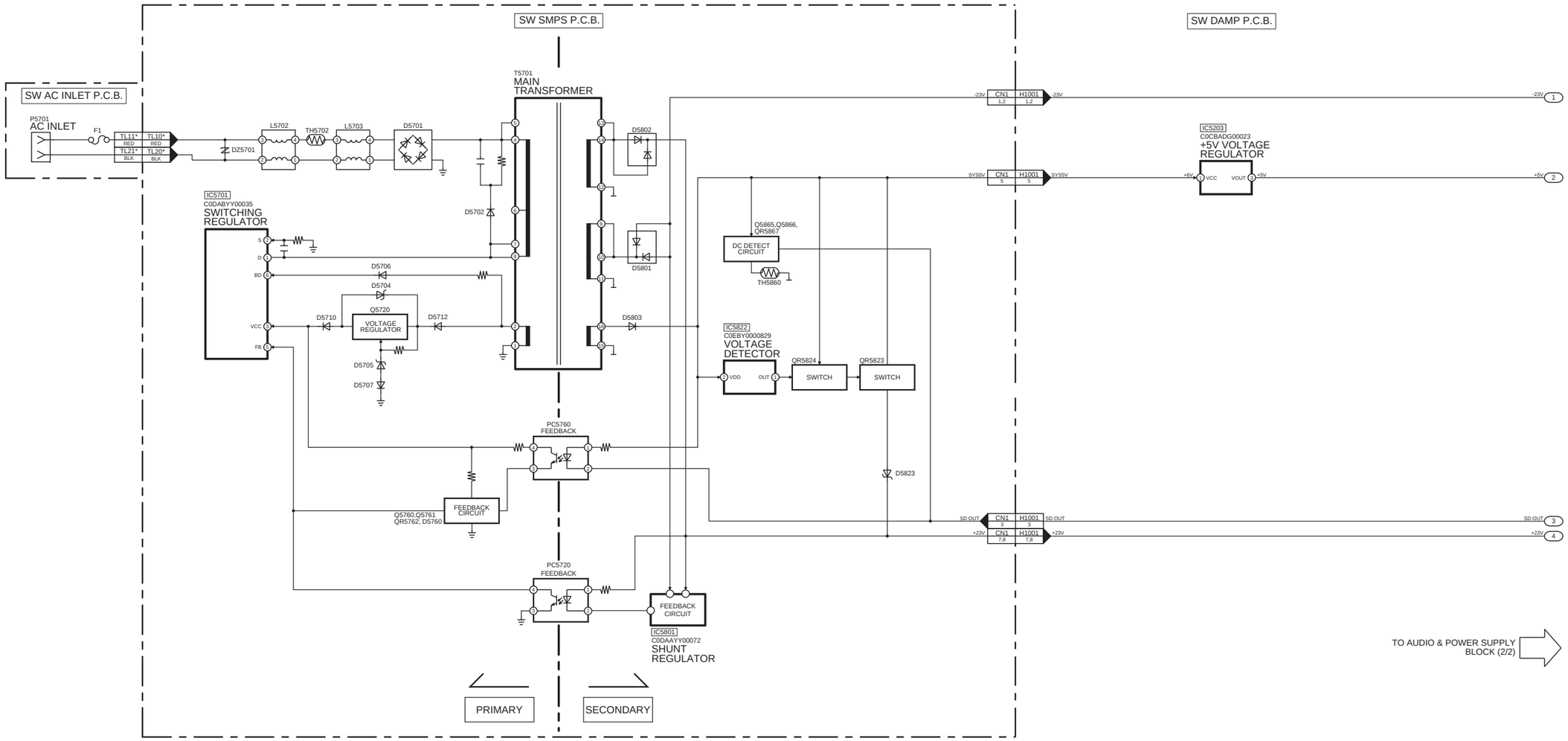
NOTE: “ * ” REF IS FOR INDICATION ONLY

SC-HTB370P/PC(SU-HTB370P/PC) POWER SUPPLY (2/2) BLOCK DIAGRAM

14.2. Active Subwoofer (SB-HWA370)

14.2.1. AUDIO & POWER SUPPLY (1/2) BLOCK DIAGRAM

: AUDIO OUTPUT SIGNAL LINE

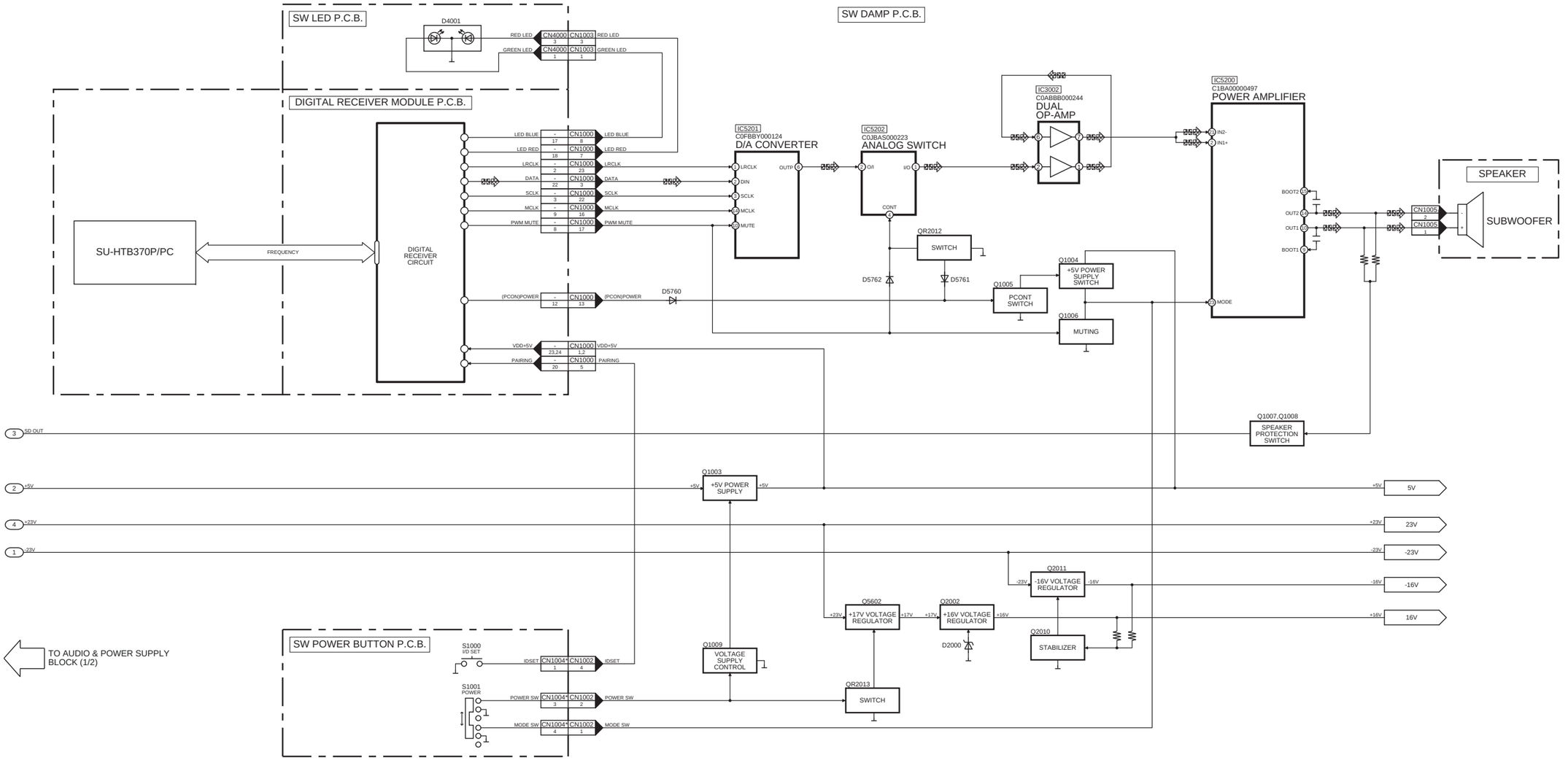


NOTE: “ * ” REF IS FOR INDICATION ONLY

SC-HTB370P/PC(SB-HWA370P/PC) AUDIO & POWER SUPPLY BLOCK DIAGRAM

14.2.2. AUDIO & POWER SUPPLY (2/2) BLOCK DIAGRAM

: AUDIO OUTPUT SIGNAL LINE

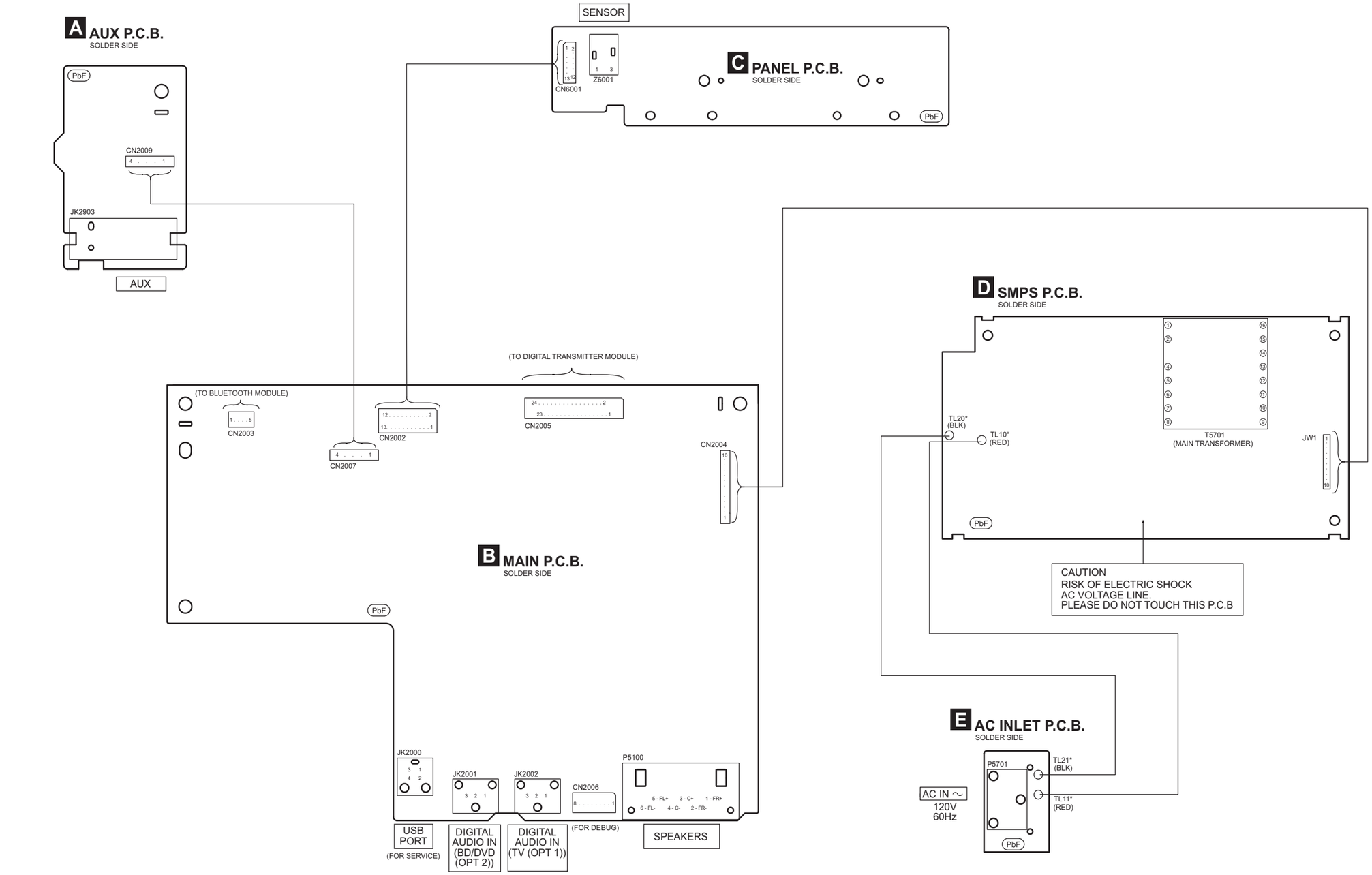


NOTE: “ * ” REF IS FOR INDICATION ONLY

SC-HTB370P/PC(SB-HWA370P/PC) AUDIO & POWER SUPPLY BLOCK DIAGRAM

15 Wiring Connection Diagram

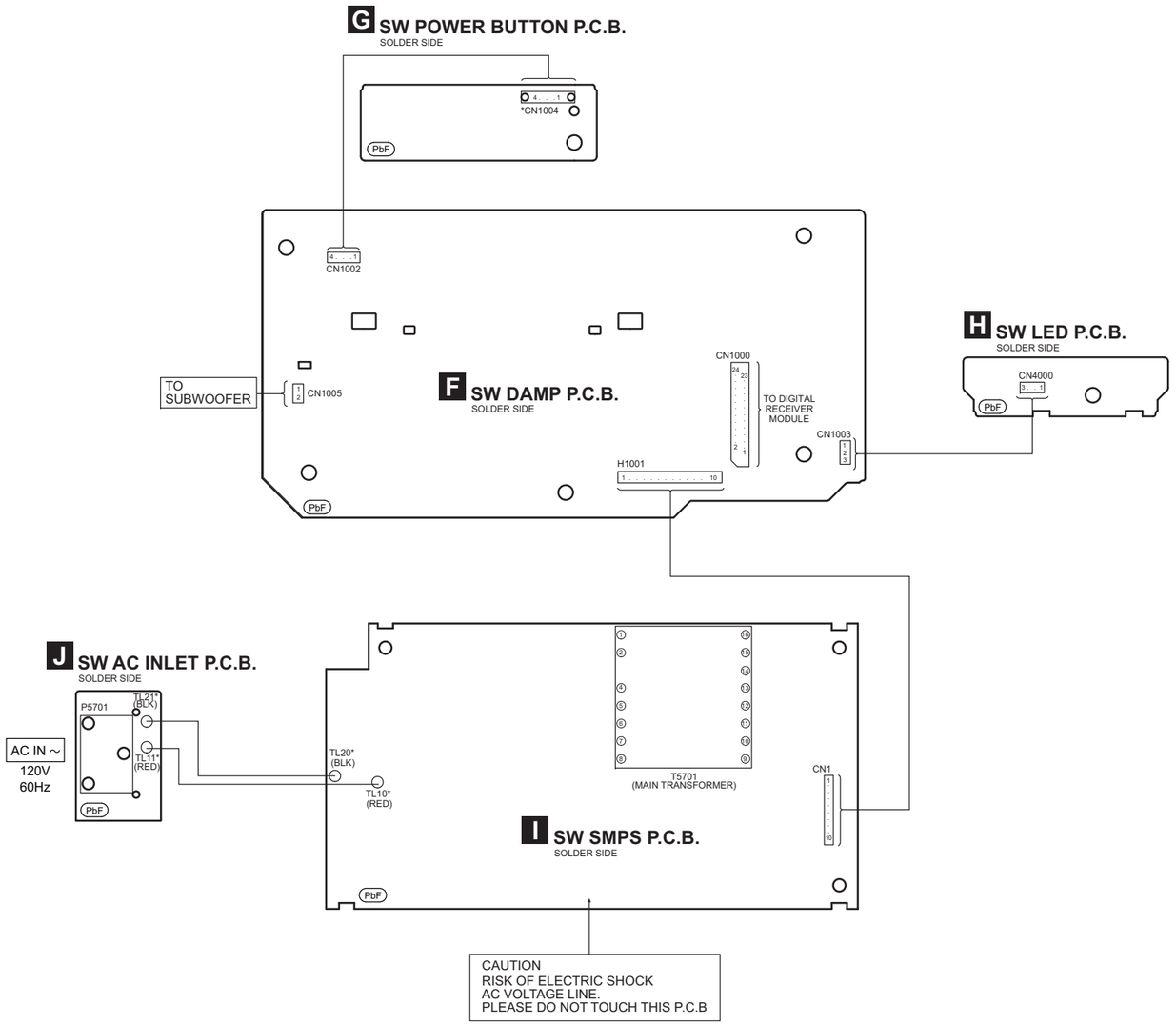
15.1. Main Unit (SU-HTB370)



Note : “ * ” REF IS FOR INDICATION ONLY.

SC-HTB370P/PC (SU-HTB370P/PC)
WIRING CONNECTION DIAGRAM

15.2. Active Subwoofer (SB-HWA370)



Note : “ * ” REF IS FOR INDICATION ONLY.

SC-HTB370P/PC (SB-HWA370P/PC)
WIRING CONNECTION DIAGRAM

16 Schematic Diagram

16.1. Schematic Diagram Notes

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

Notes:

Main Unit (SU-HTB370)

S6001:	VOLUME DOWN switch.
S6002:	POWER switch.
S6003:	SELECTOR switch.
S6004:	VOLUME UP switch.

Active Subwoofer (SB-HWA370)

S1000:	I/D SET switch.
S1001:	POWER switch.

- Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety.
  Furthermore, special parts which have purposes of fire-retardant (resistors), high quality sound (capacitors), low-noise (resistors), etc are used.
  When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

- In case of AC rated voltage Capacitors, the part no. and values will be indicated in the Schematic Diagram.
  AC rated voltage capacitors:
  C5700, C5701, C5702, C5703, C5704, C5705

- **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

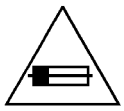
  : -B Signal Line

  : Optical/Aux Audio Input Signal Line

  : Audio Output Signal Line

  : Bluetooth/USB Signal Line

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE F1 T3.15A, 250V FUSE



RISK OF FIRE-REPLACE FUSE AS MARKED.

FUSE CAUTION

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

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

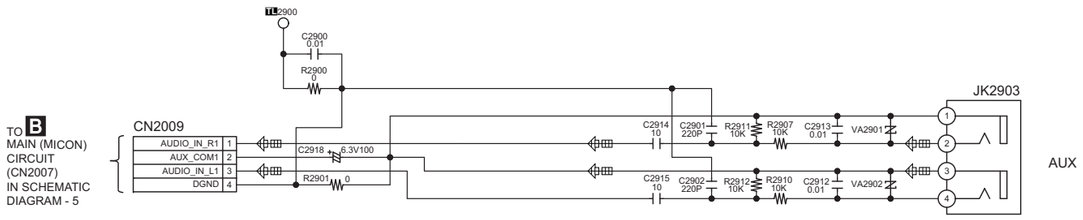
16.2. Main Unit (SU-HTB370)

16.2.1. AUX CIRCUIT

SCHEMATIC DIAGRAM - 1

A AUX CIRCUIT

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



NOTE: " * " REF IS FOR INDICATION ONLY

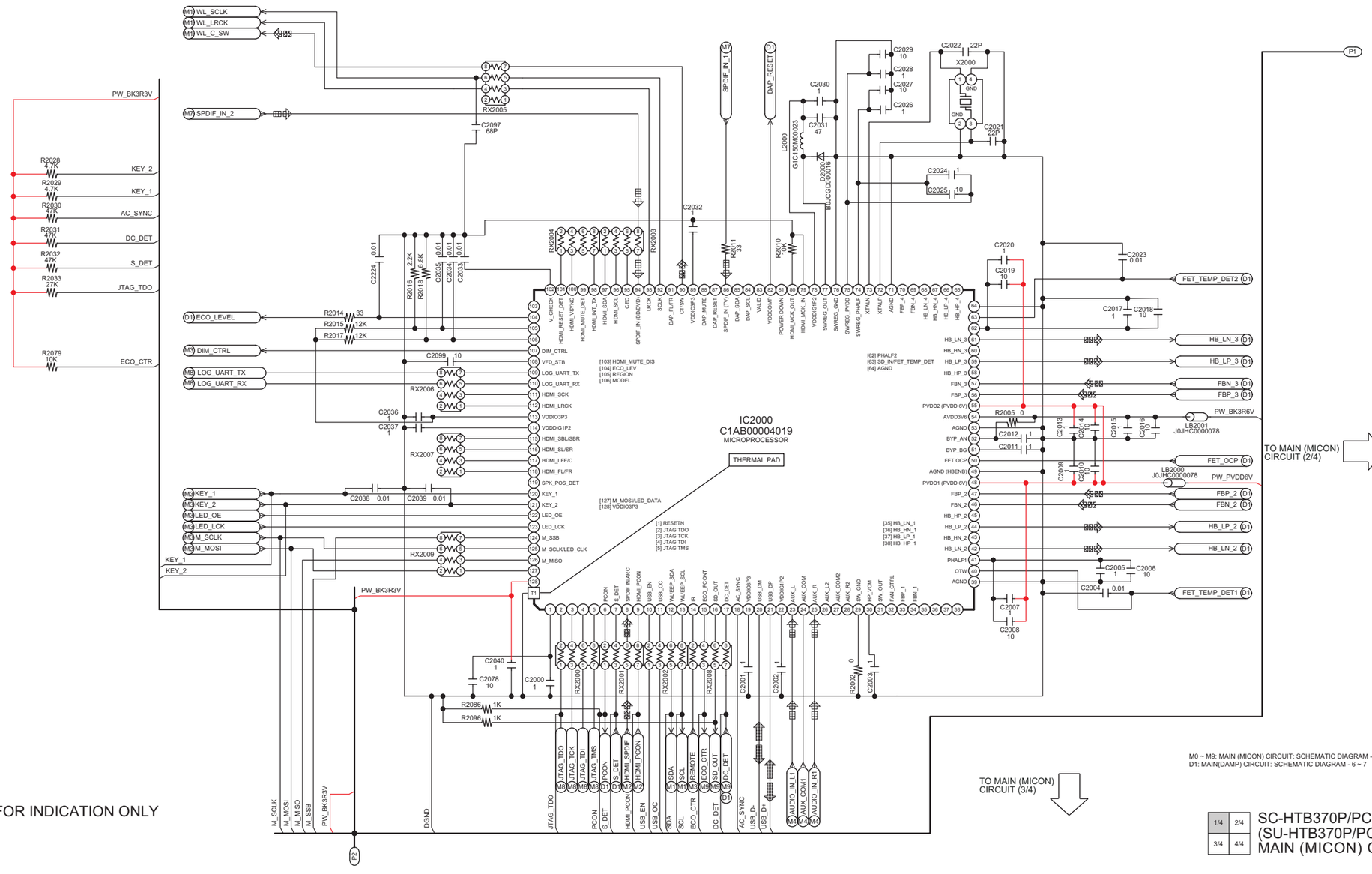
SC-HTB370P/PC (SU-HTB370P/PC)
AUX CIRCUIT

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

SCHEMATIC DIAGRAM - 2

B MAIN (MICON) CIRCUIT

—— : +B SIGNAL LINE : OPTICAL/AUX AUDIO INPUT SIGNAL LINE : BLUETOOTH/USB SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE



NOTE: " * " REF IS FOR INDICATION ONLY

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

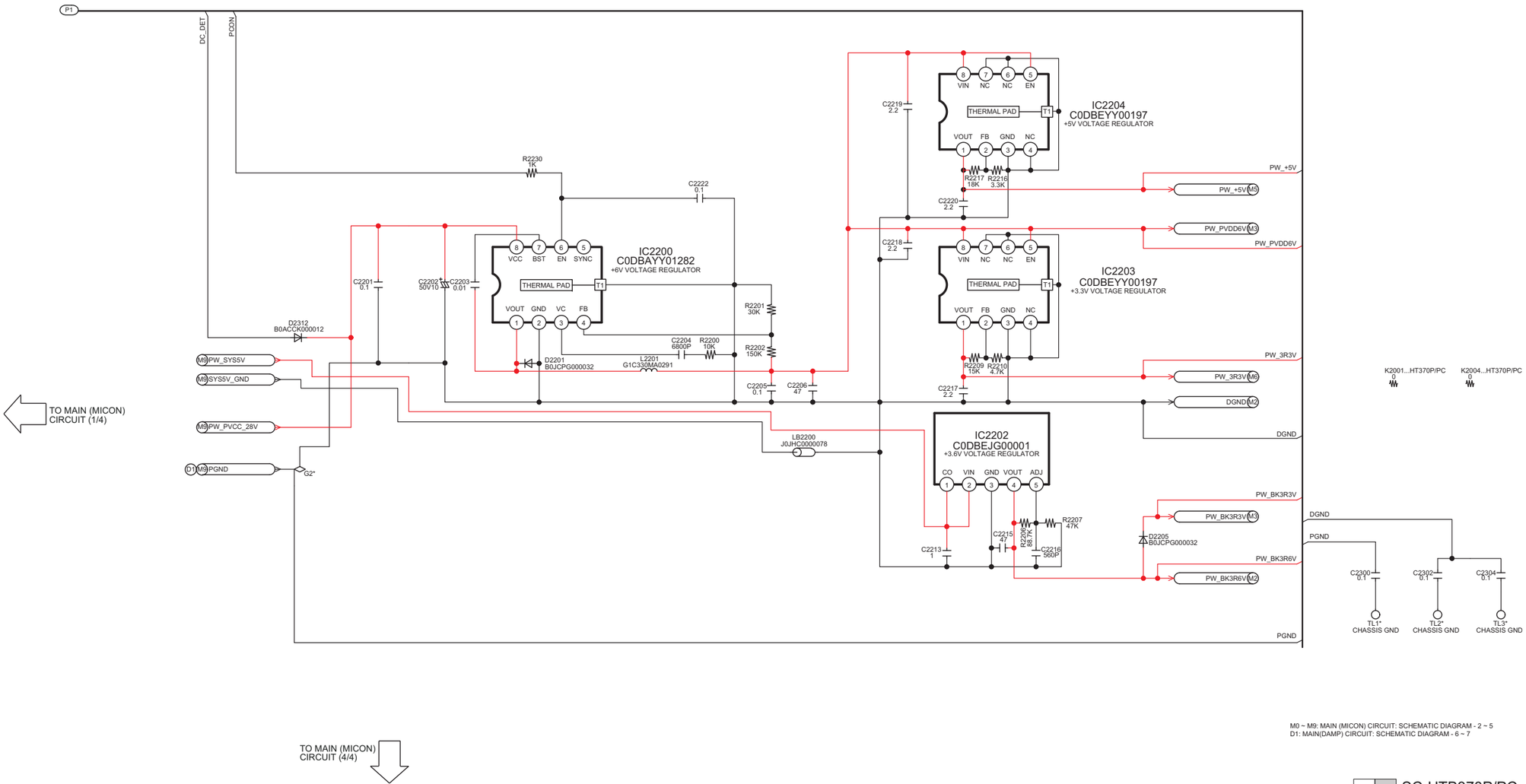
SC-HTB370P/PC
(SU-HTB370P/PC)
MAIN (MICON) CIRCUIT

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

SCHEMATIC DIAGRAM - 3

B MAIN (MICON) CIRCUIT

—— : +B SIGNAL LINE : OPTICAL/AUX AUDIO INPUT SIGNAL LINE : BLUETOOTH/USB SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE



M0 ~ M9: MAIN (MICON) CIRCUIT: SCHEMATIC DIAGRAM - 2 ~ 5
D1: MAIN(DAMP) CIRCUIT: SCHEMATIC DIAGRAM - 6 ~ 7

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

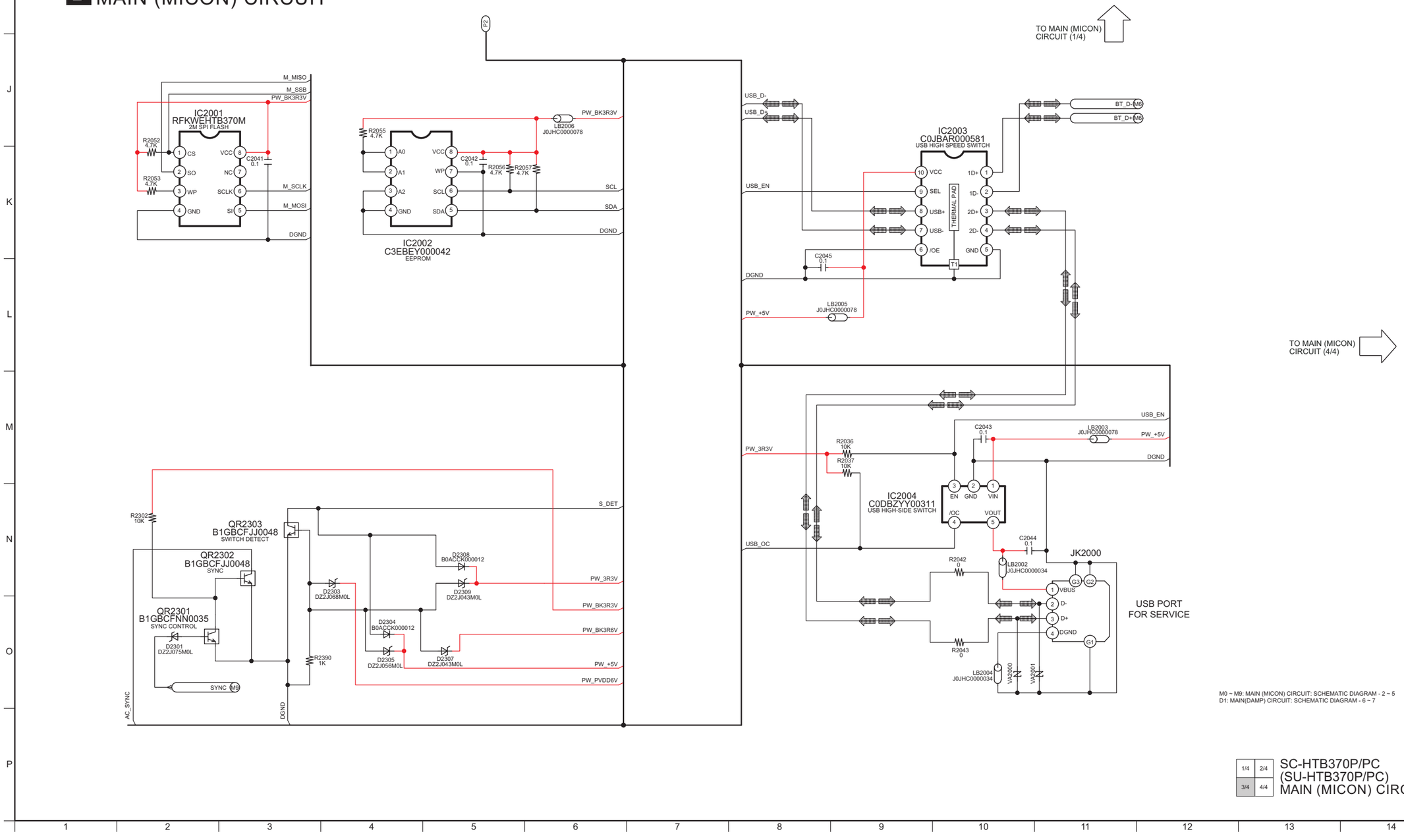
SC-HTB370P/PC
(SU-HTB370P/PC)
MAIN (MICON) CIRCUIT

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

SCHEMATIC DIAGRAM - 4

B MAIN (MICON) CIRCUIT

: +B SIGNAL LINE : OPTICAL/AUX AUDIO INPUT SIGNAL LINE : BLUETOOTH/USB SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE



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

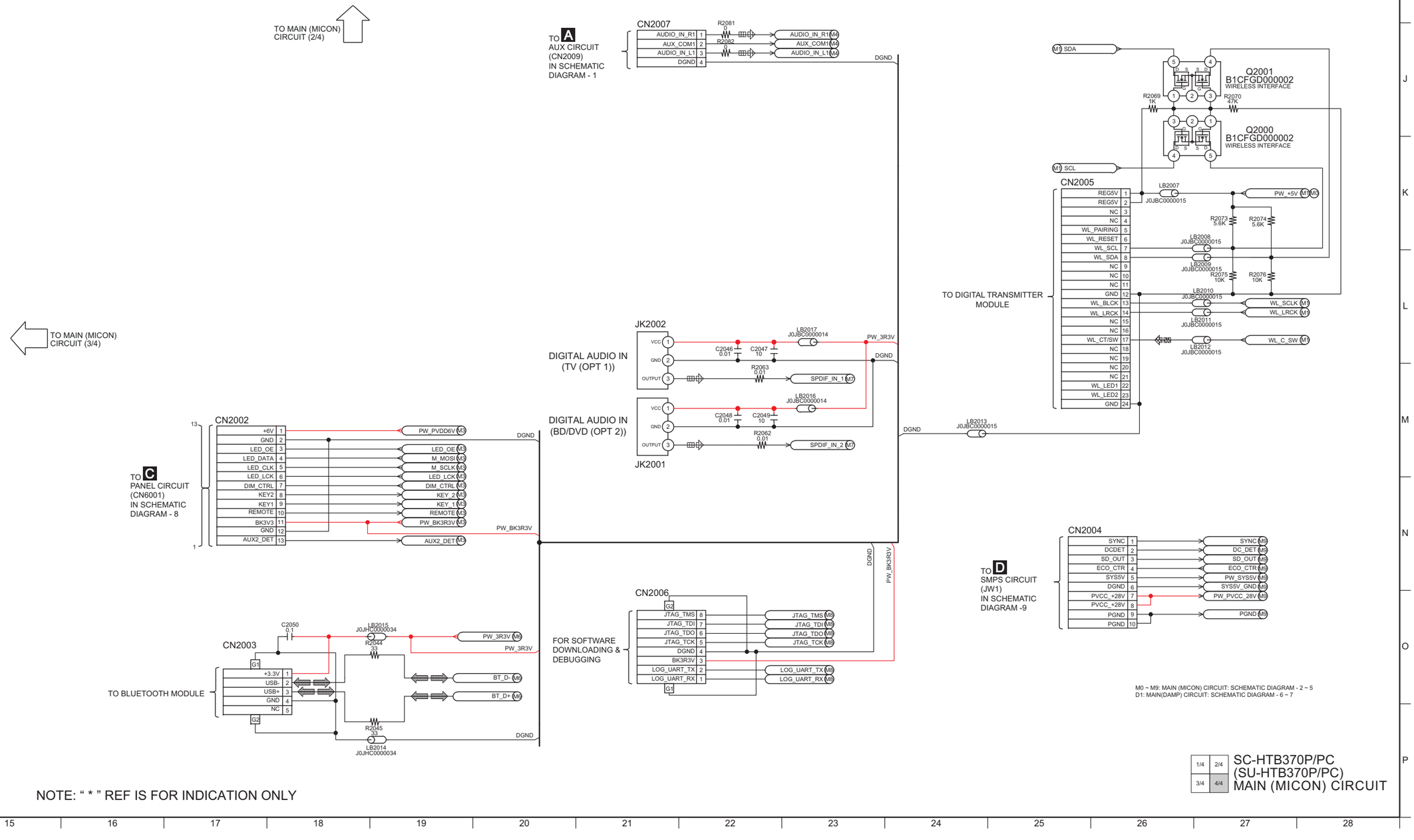
SC-HTB370P/PC
(SU-HTB370P/PC)
MAIN (MICON) CIRCUIT

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

SCHEMATIC DIAGRAM - 5

B MAIN (MICON) CIRCUIT

—— : +B SIGNAL LINE : OPTICAL/AUX AUDIO INPUT SIGNAL LINE : BLUETOOTH/USB SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE



NOTE: " * " REF IS FOR INDICATION ONLY

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

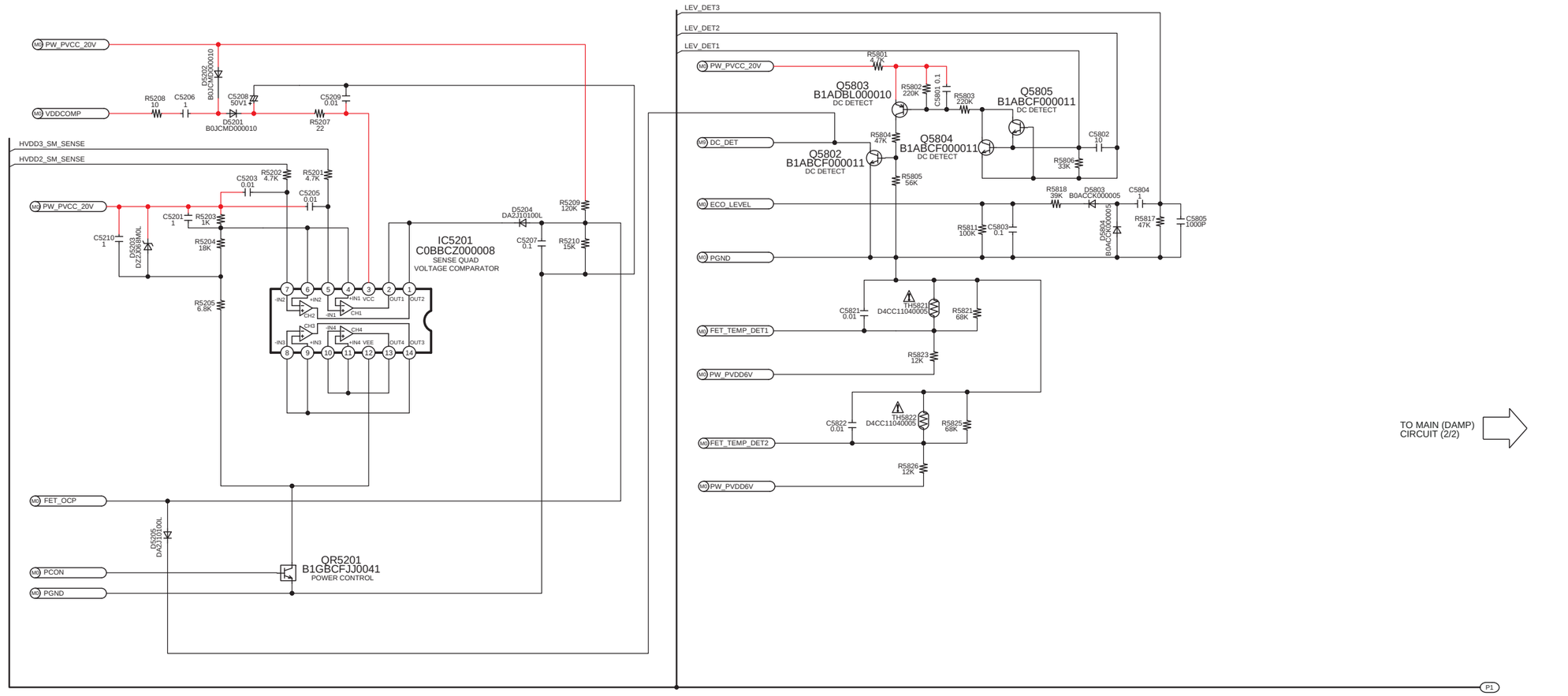
SC-HTB370P/PC
(SU-HTB370P/PC)
MAIN (MICON) CIRCUIT

16.2.6. MAIN (DAMP) CIRCUIT (1/2)

SCHEMATIC DIAGRAM - 6

A MAIN (DAMP) CIRCUIT

: +B SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE



NOTE: " * " REF IS FOR INDICATION ONLY

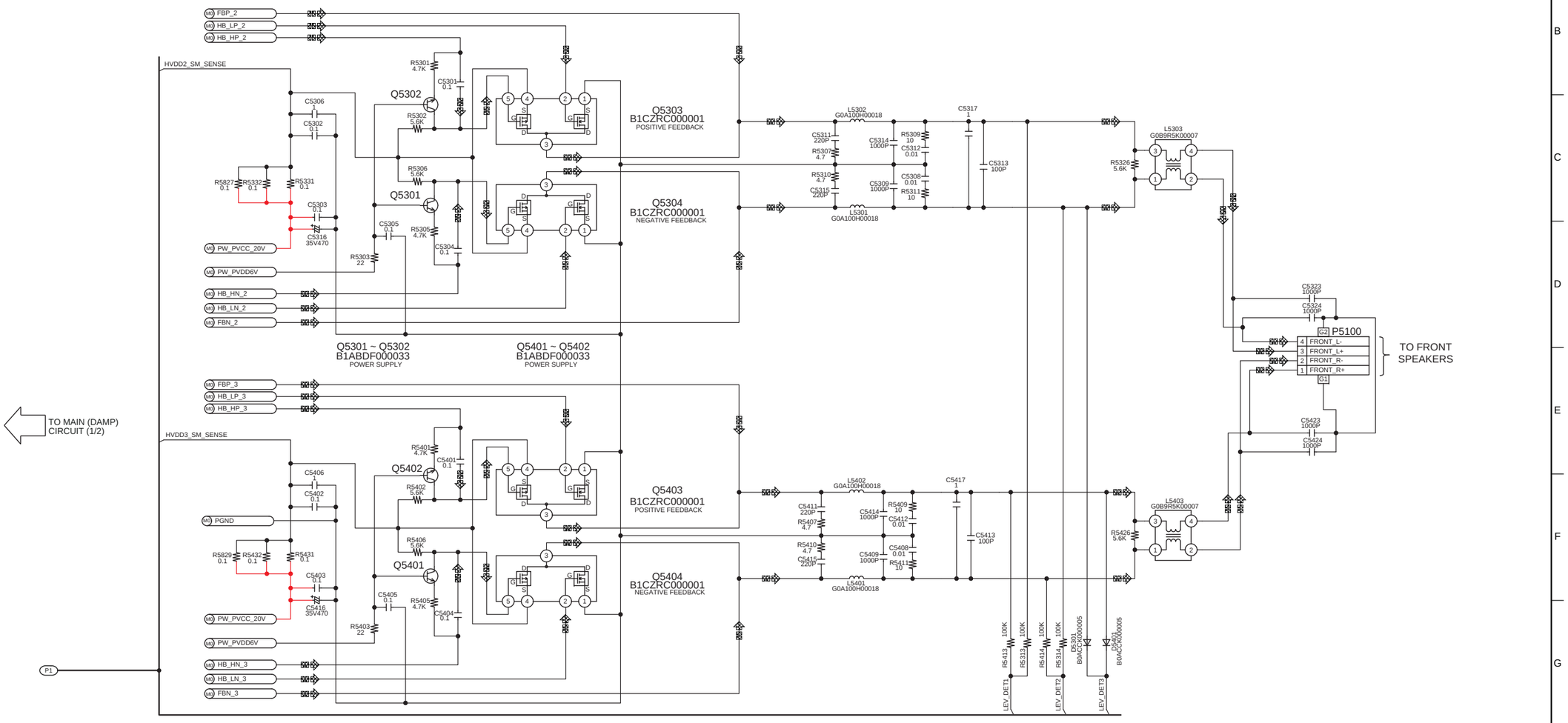
M0 – M9: MAIN (MICON) CIRCUIT: SCHEMATIC DIAGRAM - 2 – 5

1/2 2/2 SC-HTB370P/PC (SU-HTB370P/PC)
MAIN (DAMP) CIRCUIT

16.2.7. MAIN (DAMP) CIRCUIT (2/2)

SCHEMATIC DIAGRAM - 7

B MAIN (DAMP) CIRCUIT



M0 ~ M9: MAIN (MICON) CIRCUIT: SCHEMATIC DIAGRAM - 2 ~ 5

NOTE: " * " REF IS FOR INDICATION ONLY

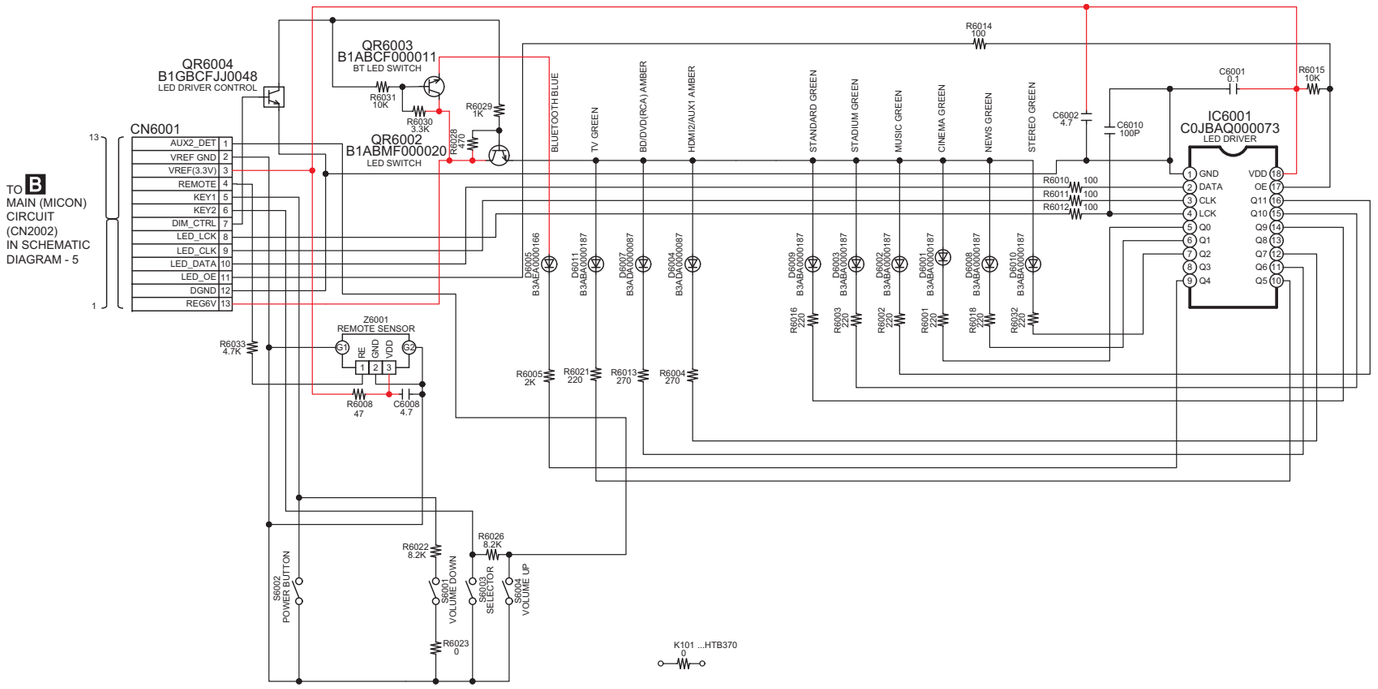
1/2 2/2 SC-HTB370P/PC (SU-HTB370P/PC)
MAIN (DAMP) CIRCUIT

16.2.8. PANEL CIRCUIT

SCHEMATIC DIAGRAM - 8

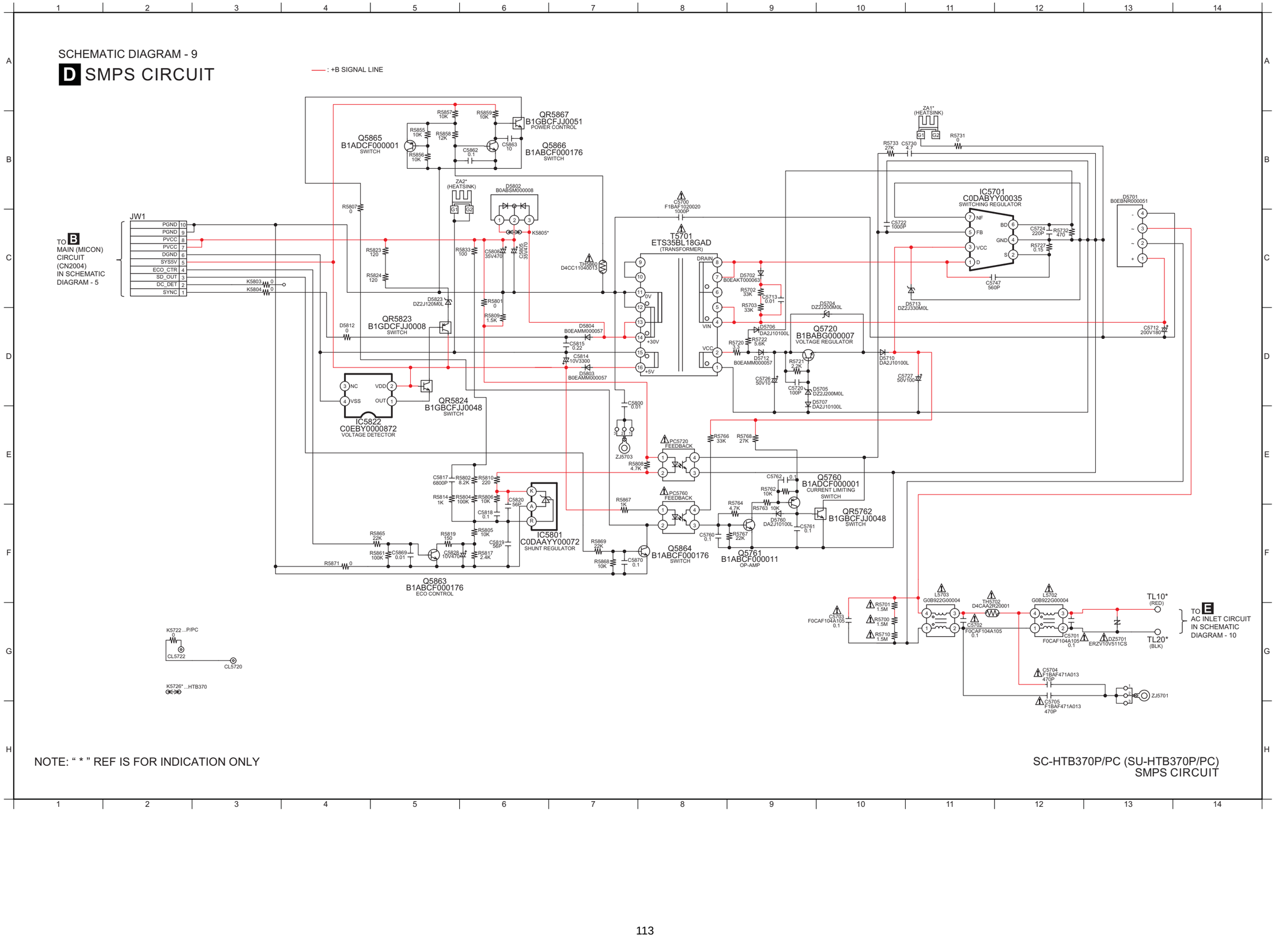
C PANEL CIRCUIT

—— : +B SIGNAL LINE



SC-HTB370P/PC (SU-HTB370P/PC)
PANEL CIRCUIT

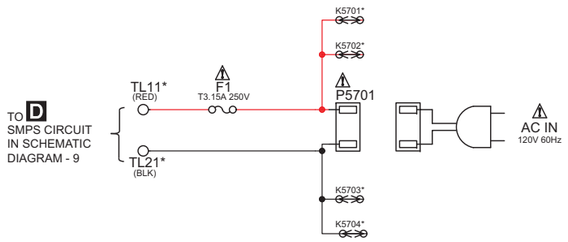
16.2.9. SMPS CIRCUIT



16.2.10. AC INLET CIRCUIT

SCHEMATIC DIAGRAM - 10

E AC INLET CIRCUIT



NOTE: " * " REF IS FOR INDICATION ONLY

SC-HTB370P/PC (SU-HTB370P/PC)
AC INLET CIRCUIT

16.3. Active Subwoofer (SB-HWA370)

16.3.1. SW DAMP CIRCUIT (1/2)

SCHEMATIC DIAGRAM - 11

F SW DAMP CIRCUIT

—— : +B SIGNAL LINE —— : -B SIGNAL LINE ⇨ : AUDIO OUTPUT SIGNAL LINE

TO **I** SW SMPS CIRCUIT (CN1) IN SCHEMATIC DIAGRAM - 14

TO **G** SW POWER BUTTON CIRCUIT (CN1004*) IN SCHEMATIC DIAGRAM - 13

TO **H** SW LED CIRCUIT (CN4000) IN SCHEMATIC DIAGRAM - 13

TO DIGITAL RECEIVER MODULE

TO SW DAMP CIRCUIT (2/2)

NOTE: " * " REF IS FOR INDICATION ONLY

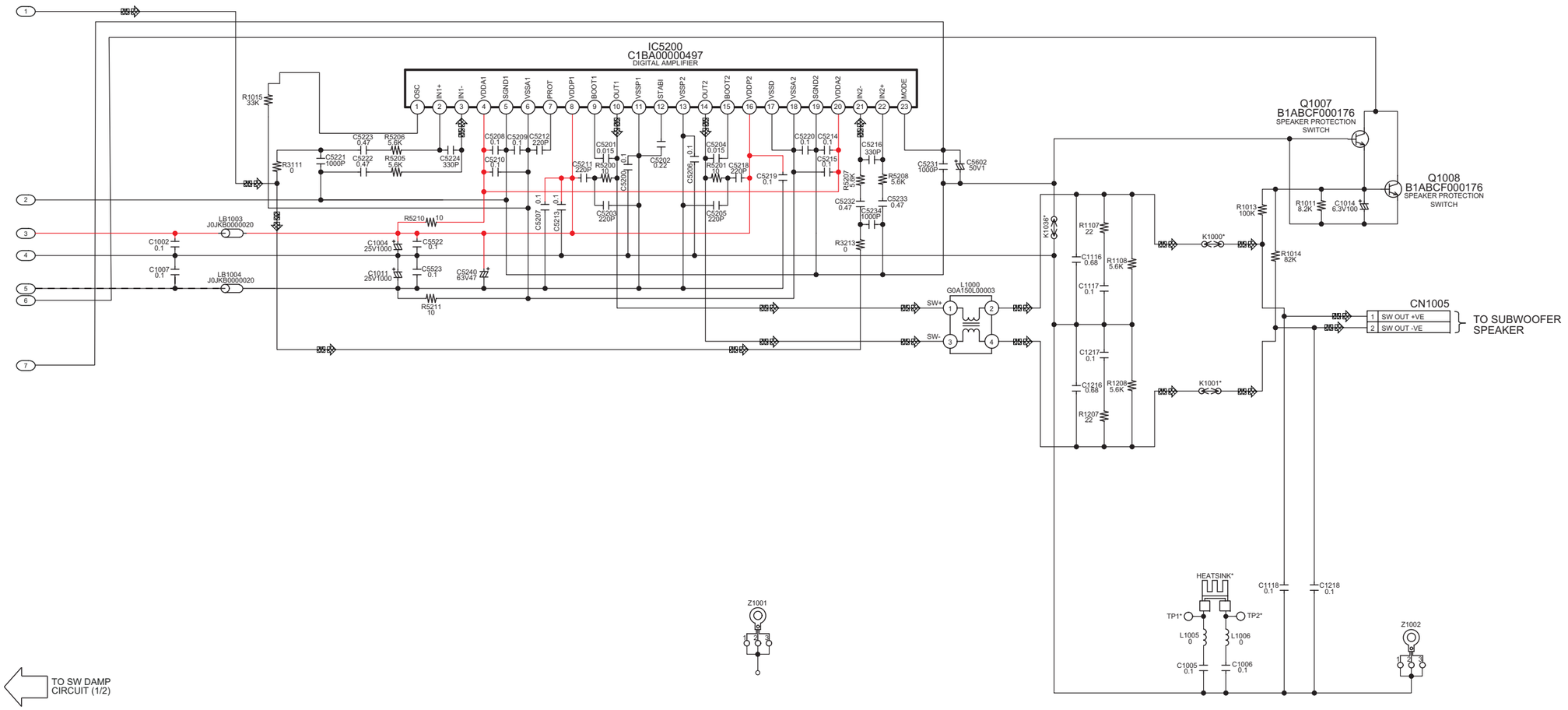
SC-HTB370P/PC (SB-HWA370P/PC)
SW DAMP CIRCUIT
1/2 2/2

16.3.2. SW DAMP CIRCUIT (2/2)

SCHEMATIC DIAGRAM - 12

F SW DAMP CIRCUIT

—— : +B SIGNAL LINE —— : -B SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE



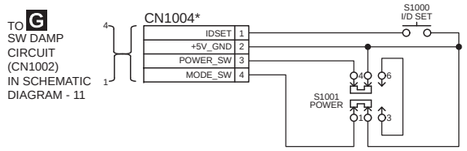
NOTE: " * " REF IS FOR INDICATION ONLY

1/2 2/2 SC-HTB370P/PC (SB-HWA370P/PC)
SW DAMP CIRCUIT

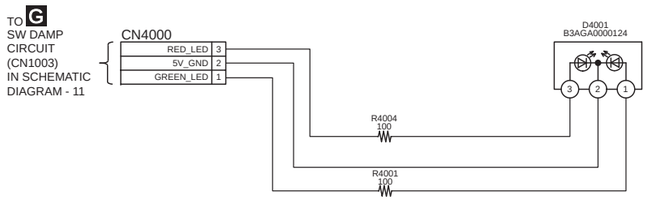
16.3.3. SW POWER BUTTON, SW LED & SW AC INLET CIRCUIT

SCHEMATIC DIAGRAM - 13

G SW POWER BUTTON CIRCUIT

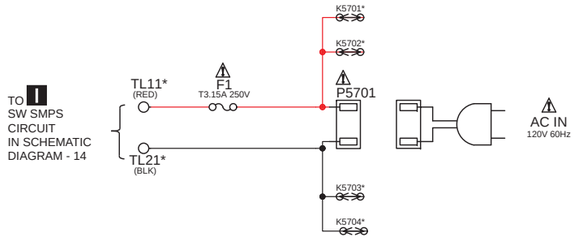


H SW LED CIRCUIT



J SW AC INLET CIRCUIT

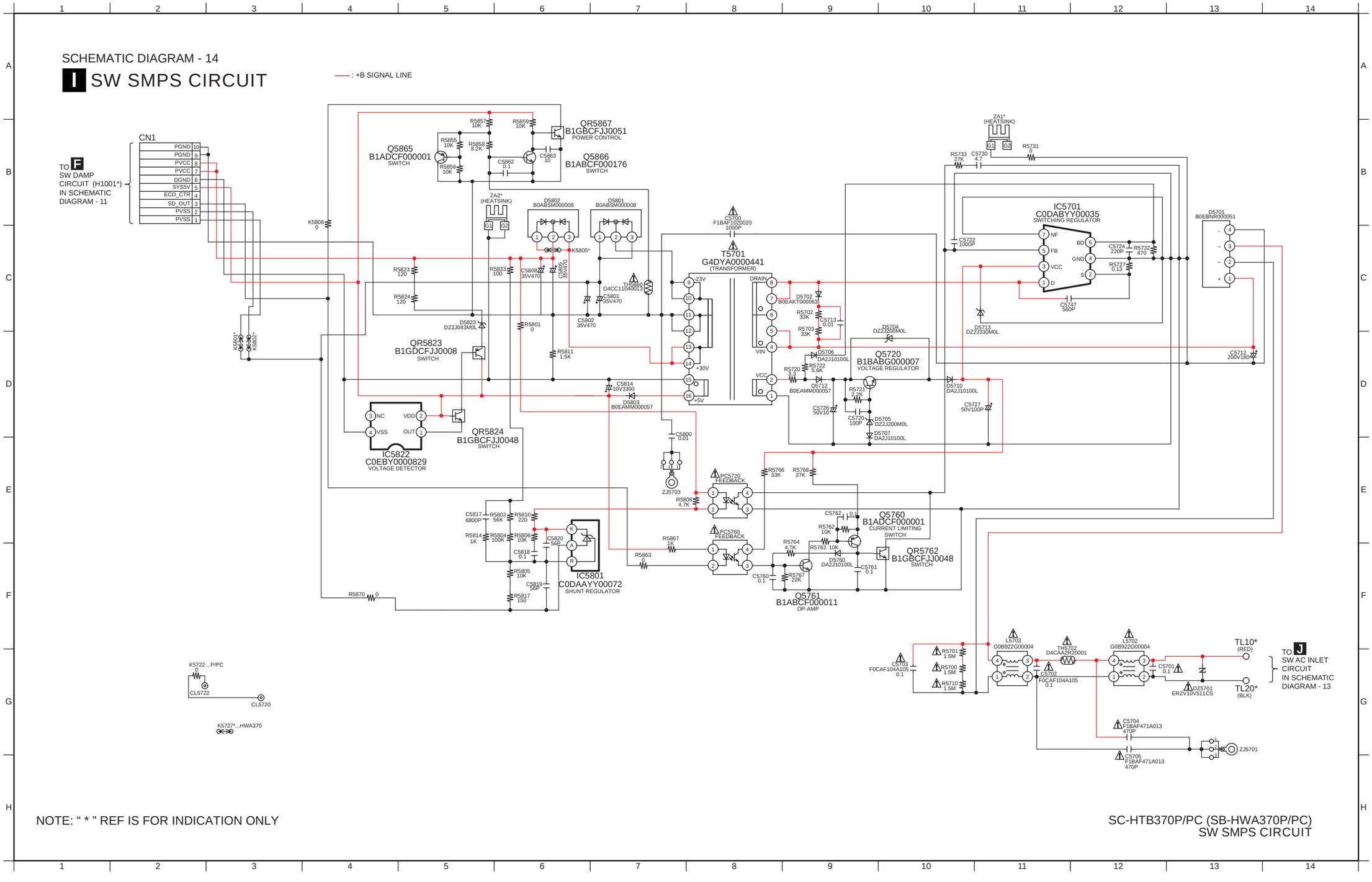
: +B SIGNAL LINE



NOTE: " * " REF IS FOR INDICATION ONLY

SC-HTB370P/PC (SB-HWA370P/PC)
SW POWER BUTTON / SW LED / SW AC INLET CIRCUIT

16.3.4. SW SMPS CIRCUIT



NOTE: " * " REF IS FOR INDICATION ONLY

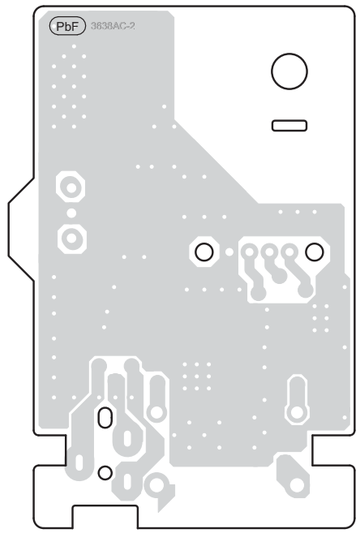
SC-HTB370P/PC (SB-HWA370P/PC)
SW SMPS CIRCUIT

17 Printed Circuit Board

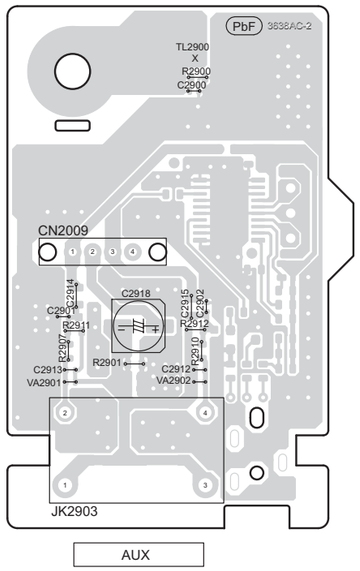
17.1. Main Unit (SU-HTB370)

17.1.1. AUX P.C.B.

A AUX P.C.B. (REP4867HC)



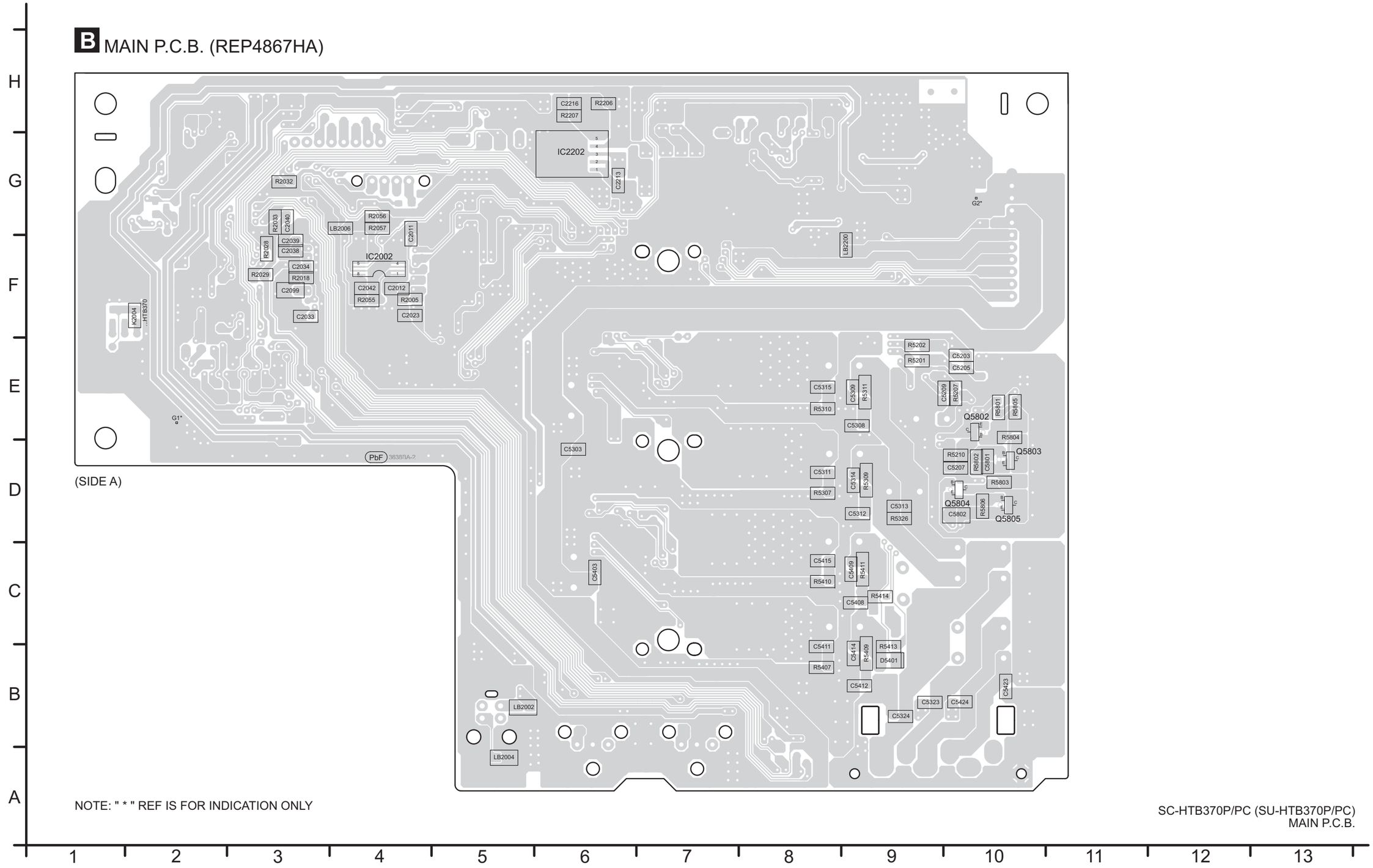
(SIDE A)



(SIDE B)

17.1.2. MAIN P.C.B. (Side A)

B MAIN P.C.B. (REP4867HA)



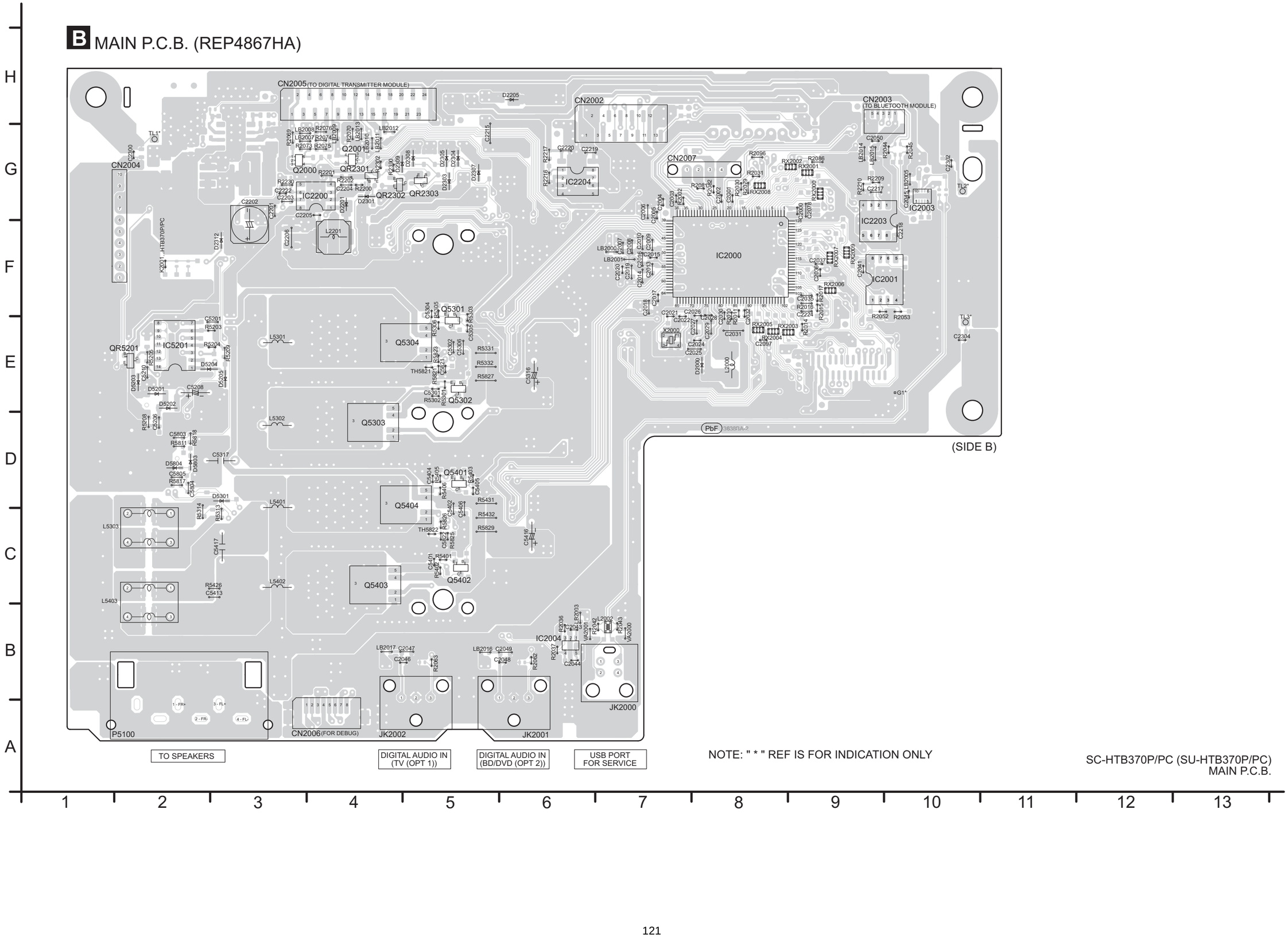
(SIDE A)

NOTE: " * " REF IS FOR INDICATION ONLY

SC-HTB370P/PC (SU-HTB370P/PC)
MAIN P.C.B.

17.1.3. MAIN P.C.B. (Side B)

B MAIN P.C.B. (REP4867HA)

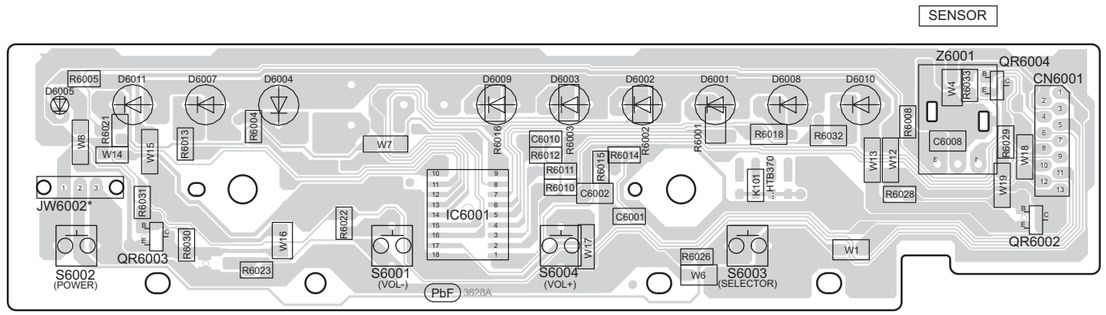


NOTE: " * " REF IS FOR INDICATION ONLY

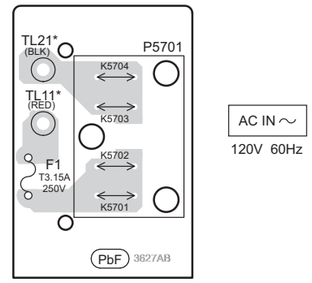
SC-HTB370P/PC (SU-HTB370P/PC)
MAIN P.C.B.

17.1.4. PANEL, SMPS & AC INLET P.C.B.

C PANEL P.C.B. (REP4862B)

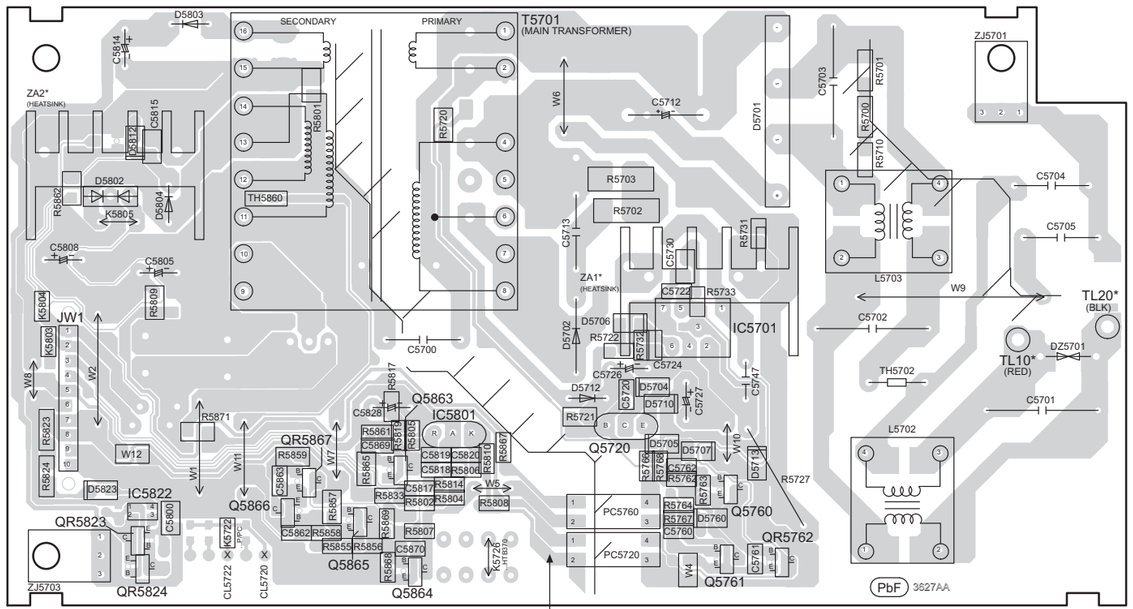


E AC INLET P.C.B. (REP4860F)



AC IN ~
120V 60Hz

D SMPS P.C.B. (REP4860F)



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

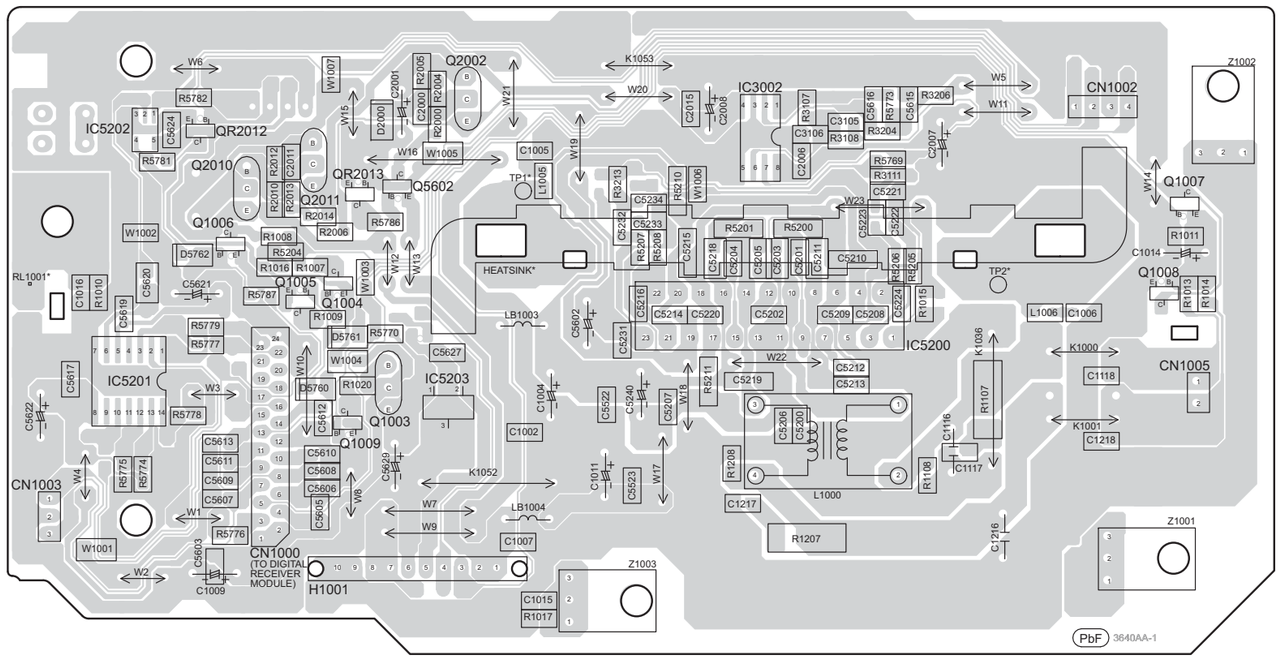
NOTE: " * " REF IS FOR INDICATION ONLY

SC-HTB370P/PC (SU-HTB370P/PC)
PANEL / SMPS / AC INLET P.C.B.

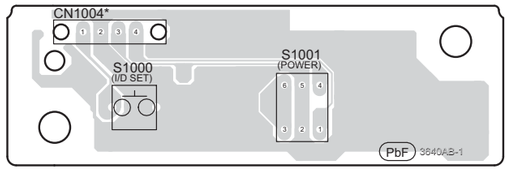
17.2. Active Subwoofer (SB-HWA370)

17.2.1. SW DAMP, SW POWER BUTTON & SW LED P.C.B.

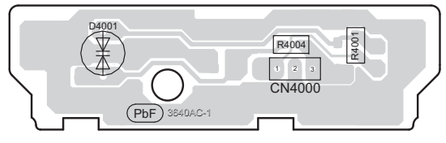
F SW DAMP P.C.B. (REP4869AA)



G SW POWER BUTTON P.C.B. (REP4869AB)



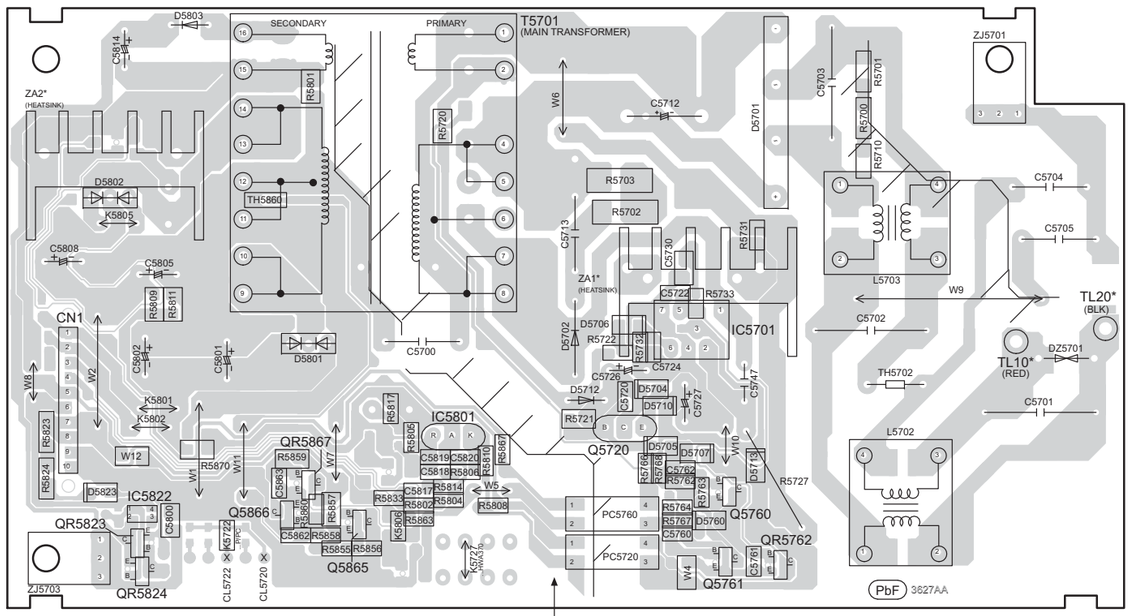
H SW LED P.C.B. (REP4869AC)



NOTE: " * " REF IS FOR INDICATION ONLY

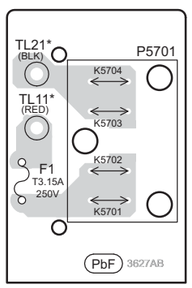
17.2.2. SW SMPS & SW AC INLET P.C.B.

I SW SMPS P.C.B. (REP4860K)



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

J SW AC INLET P.C.B. (REP4860K)



AC IN ~
120V 60Hz

NOTE: " * " REF IS FOR INDICATION ONLY

18 Appendix Information of Schematic Diagram

18.1. 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.

18.1.1. Main Unit (SU-HTB370)

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

REF NO.	IC2000																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.4	0	3.4	0	0	3.2	3.4	1.7	3.4	0	3.4	3.4	3.3	3.4	0	3.4	3.4	3.4	3.4	0.9
STANDBY	3.4	0	3.4	0	0	3.2	3.4	1.7	3.4	0	3.4	3.4	3.3	3.4	0	3.4	3.4	3.4	3.4	0.9

REF NO.	IC2000																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	3.4	1.4	1.6	1.6	1.6	1.6	1.6	1.6	0	0	0	3.3	0	0	0	0	0	0	0	3.3
STANDBY	3.4	1.4	1.6	1.6	1.6	1.6	1.6	1.6	0	0	0	3.3	0	0	0	0	0	0	0	3.3

REF NO.	IC2000																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	3.0	1.6	0	1.6	0	1.6	1.6	6.0	0	0	0.8	3.5	0	3.6	6	1.6	1.6	0	1.6	0
STANDBY	3.0	1.6	0	1.6	0	1.6	1.6	6.0	0	0	0.8	3.5	0	3.6	6	1.6	1.6	0	1.6	0

REF NO.	IC2000																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	1.6	2.8	3.3	0	0	0	0	0	0	0	0	1.2	1.0	3.0	3.0	0	1.4	0	0	0
STANDBY	1.6	2.8	3.3	0	0	0	0	0	0	0	0	1.2	1.0	3.0	3.0	0	1.4	0	0	0

REF NO.	IC2000																			
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	1.7	0	0	3.3	0	3.4	3.4	3.4	1.4	1.3	1.7	1.7	3.1	3.6	3.1	3.3	3.3	3.4
STANDBY	0	0	1.7	0	0	3.3	0	3.4	3.4	3.4	1.4	1.3	1.7	1.7	3.1	3.6	3.1	3.3	3.3	3.4

REF NO.	IC2000																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
CD PLAY	0	3.4	0	0	0.5	0.7	0	0	0.7	0.8	1.7	1.7	3.4	1.1	1.2	1.2	1.0	0.8	3.1	3.4
STANDBY	0	3.4	0	0	0.5	0.7	0	0	0.7	0.8	1.7	1.7	3.4	1.1	1.2	1.2	1.0	0.8	3.1	3.4

REF NO.	IC2000																			
MODE	121	122	123	124	125	126	127	128												
CD PLAY	3.4	0	0	3.4	0.5	0.8	3.4	3.4												
STANDBY	3.4	0	0	3.4	0.5	0.8	3.4	3.4												

REF NO.	IC2001																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	3.4	0.6	3.4	0	3.4	0	0.9	3.4												
STANDBY	3.4	0.9	3.4	0	3.4	0	0.9	3.4												

REF NO.	IC2002																			
MODE	1	2	3	4	5	6	7	8												
POWER ON	3.4	3.4	0	0	3.4	3.4	0	3.4												
STANDBY	3.4	3.4	0	0	3.4	3.3	0	3.4												

REF NO.	IC2003																			
MODE	1	2	3	4	5	6	7	8	9	10										
CD PLAY	3.4	0.9	0.8	0.8	0	0	0.8	3.4	0	5.2										
STANDBY	3.4	0.9	0.8	0.8	0	0	0.7	3.4	0	5.2										

SC-HTB370P/PC(SU-HTB370P/PC) MAIN P.C.B.

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

REF NO.	IC2004																			
MODE	1	2	3	4	5															
POWER ON	5.2	0	0	3.4	0															
STANDBY	5.2	0	0	3.4	0															

REF NO.	IC2200																			
MODE	1	2	3	4	5	6	7	8												
POWER ON	5.9	0	1.2	1	0	3.1	10.9	28.0												
STANDBY	5.9	0	1.2	1	0	3.1	10.8	28.0												

REF NO.	IC2202																			
MODE	1	2	3	4	5															
POWER ON	5.0	5.0	0	3.6	1.3															
STANDBY	5.0	5.0	0	3.6	1.3															

REF NO.	IC2203																			
MODE	1	2	3	4	5	6	7	8												
POWER ON	3.3	1.0	0	0	6	0	0	6												
STANDBY	3.3	1.0	0	0	6	0	0	6												

REF NO.	IC2204																			
MODE	1	2	3	4	5	6	7	8												
POWER ON	5.2	0.8	0	0	6.0	0	0	6.0												
STANDBY	5.2	0.8	0	0	6.0	0	0	6.0												

REF NO.	IC5801																			
MODE	1	2	3	4	5	6	7	8												
POWER ON	12.0	0	1.4	1.0	0	3.1	16.7	28.0												
STANDBY	12.0	0	1.4	1.0	0	3.1	16.7	28.0												

REF NO.	Q2000						Q2001						Q5301				Q5302			
MODE	1	2	3	4	5		1	2	3	4	5		E	C	B		E	C	B	
CD PLAY	5.0	0	5.0	3.4	3.4		5.0	0	5.0	3.4	3.4		5.6	16.0	6.0		5.6	16.0	6.0	
STANDBY	5.0	0	5.0	3.4	3.4		5.0	0	5.0	3.4	3.4		5.6	16.0	6.0		5.6	16.0	6.0	

REF NO.	Q5303						Q5304						Q5401				Q5402			
MODE	1	2	3	4	5		1	2	3	4	5		E	C	B		E	C	B	
CD PLAY	0	2.5	9.1	18.8	16.0		0	2.5	9.1	18.8	16.0		5.6	16.0	6.0		5.6	16.0	6.0	
STANDBY	0	2.5	9.1	18.8	16.0		0	2.5	9.1	18.8	16.0		5.6	16.0	6.0		5.6	16.0	6.0	

REF NO.	Q5403						Q5404						Q5802				Q5803			
MODE	1	2	3	4	5		1	2	3	4	5		E	C	B		E	C	B	
CD PLAY	0	2.5	9.0	18.8	16.0		0	2.5	9.0	18.8	16.0		0	3.4	0		17.9	0	6.5	
STANDBY	0	2.5	9.0	18.8	16.0		0	2.5	9.0	18.8	16.0		0	3.4	0		17.9	0	6.5	

REF NO.	Q5804				Q5805				QR2001				QR2301				QR2302			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	6.5	8.2		8.2	6.5	0		0	3.4	0		0	3.0	1.0		0	1.0	3.0	
STANDBY	0	6.5	8.2		8.2	6.5	0		0	3.4	0		0	3.0	1.0		0	1.0	3.0	

SC-HTB370P/PC(SU-HTB370P/PC) MAIN P.C.B.

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

REF NO.	QR2303				QR5201																
MODE	E	C	B		E	C	B														
CD PLAY	0	3.4	0.3		0	0	3.4														
STANDBY	0	3.4	0.3		0	0	3.4														

SC-HTB370P/PC(SU-HTB370P/PC) MAIN P.C.

18.1.1.4. PANEL P.C.B.

REF NO.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
POWER ON	0	3.4	3.4	3.4	2.2	2.2	2.2	2.2	2.2	2.2	0.2	2.3	2.3	0.3	2.2	2.2	0	3.4		
STANDBY	0	3.4	3.4	3.4	2.2	2.2	2.2	2.2	2.2	2.2	0.2	2.3	2.3	0.3	2.2	2.2	0	3.4		

REF NO.	QR6002				QR6003				QR6004											
MODE	E	C	B		E	C	B		E	C	B									
POWER ON	4.6	6.0	6.0		4.2	6.0	4.5		0	4.5	0									
STANDBY	2.4	6.0	3.8		5.6	6.0	4.5		0	4.5	0									

SC-HTB370P/PC(SU-HTB370P/PC) PANEL P.C.B.

18.1.1.5. SMPS P.C.B.

REF NO.	IC5701																			
MODE	1	2	3	4	5	6	7													
POWER ON	166.6	0	14.4	0	0.9	0.4	0													
STANDBY	166.6	0	14.4	0	0.9	0.4	0													

REF NO.	IC5801																			
MODE	K	A	R																	
POWER ON	16.0	0	2.5																	
STANDBY	16.0	0	2.5																	

REF NO.	IC5822																			
MODE	1	2	3	4																
POWER ON	0	3.9	0	0																
STANDBY	0	3.9	0	0																

REF NO.	Q5720				Q5760				Q5761				Q5863				Q5864			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
POWER ON	15.1	15.7	15.7		14.3	0	14.3		0	14.3	0		0	0.9	0		0	3.5	0	
STANDBY	15.1	15.7	15.7		14.3	0	14.3		0	14.3	0		0	0.9	0		0	3.5	0	

REF NO.	Q5865				Q5866				QR5762				QR5823				QR5824			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
POWER ON	1.2	0	0.6		0	0	0.6		0	0.9	0		4.0	3.9	0		0	0	3.9	
STANDBY	1.2	0	0.6		0	0	0.6		0	0.9	0		4.0	3.9	0		0	0	3.9	

REF NO.	QR5867																			
MODE	E	C	B																	
POWER ON	0	3.5	0																	
STANDBY	0	3.5	0																	

SC-HTB370P/PC(SU-HTB370P/PC) SMPS P.C.B.

18.1.2. Active Subwoofer (SB-HWA370)

18.1.2.1. SW DAMP P.C.B.

REF NO.	IC3002																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	1.0	1.0	1.0	-15.1	1.0	1.0	1.0	15.8												
STANDBY	1.0	1.0	1.0	-15.1	1.0	1.0	1.0	15.8												

REF NO.	IC5200																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	2.5	1.0	1.0	22.8	0	-22.7	-14.2	23.1	9.0	18.3	-22.9	-12.8	-22.9	18.3	9.0	23.1	-22.7	-22.7	0	22.8
STANDBY	2.5	1.0	1.0	22.8	0	-22.7	-14.2	23.1	9.0	18.3	-22.9	-12.8	-22.9	18.3	9.0	23.1	-22.7	-22.7	0	22.8

REF NO.	IC5200																			
MODE	21	22	23																	
CD PLAY	1.0	1.0	4.9																	
STANDBY	1.0	1.0	4.9																	

REF NO.	IC5201																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
CD PLAY	3.0	1.8	3.0	0	0	5.6	0	5.0	0	0	0	0.5	4.0	3.0						
STANDBY	3.0	1.8	3.0	0	0	5.6	0	5.0	0	0	0	0.5	4.0	3.0						

REF NO.	IC5202																			
MODE	1	2	3	4	5															
CD PLAY	0	5.6	0	0.2	5.0															
STANDBY	0	5.6	0	0.2	5.0															

REF NO.	IC5203																			
MODE	1	2	3																	
CD PLAY	5.0	0	4.9																	
STANDBY	5.0	0	4.9																	

REF NO.	Q1003				Q1004				Q1005				Q1006				Q1007			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	5.1	5.0	0		4.6	4.7	0		0	0	2.9		0	4.3	0		18.3	2.5	-15.0	
STANDBY	5.1	5.0	4.2		4.6	4.7	4.2		0	0	2.9		0	4.3	0		18.3	2.5	-15.0	

REF NO.	Q1008				Q1009				Q2002				Q2010				Q2011			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	-15.0	2.6	18.3		0	0	2.8		15.8	22.9	16.4		0	0	15.8		-15.1	0	16.0	
STANDBY	-15.0	2.6	18.3		0	0	2.8		15.8	22.9	16.4		0	0	15.8		-15.1	0	16.0	

REF NO.	Q5602				QR2012				QR2013											
MODE	E	C	B		E	C	B		E	C	B									
CD PLAY	23.1	22.9	0		0	0	1.8		0	0	2.8									
STANDBY	23.1	22.9	0		0	0	1.8		0	0	2.8									

SC-HTB370P/PC(SB-HWA370P/PC) SW DAMP P.C.B.

18.1.2.2. SW SMPS P.C.B.

REF NO.	IC5701																			
MODE	1	2	3	4	5	6	7													
POWER ON	166.6	0	14.4	0	0.9	0.4	0													
STANDBY	166.6	0	14.4	0	0.9	0.4	0													

REF NO.	IC5801																			
MODE	K	A	R																	
POWER ON	16.0	0	2.5																	
STANDBY	16.0	0	2.5																	

REF NO.	IC5822																			
MODE	1	2	3	4																
POWER ON	0	3.9	0	0																
STANDBY	0	3.9	0	0																

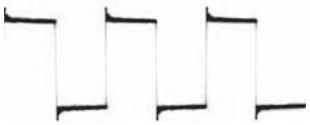
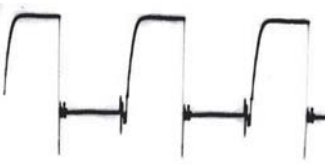
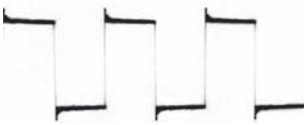
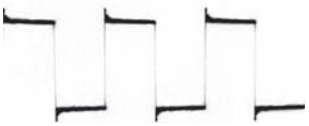
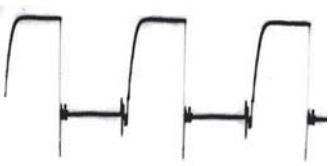
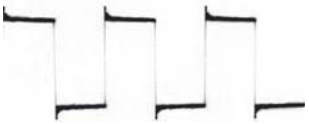
REF NO.	Q5720				Q5760				Q5761				Q5865				Q5866			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
POWER ON	15.1	15.7	15.7		14.3	0	14.3		0	14.3	0		1.2	0	0.6		0	0	0.6	
STANDBY	15.1	15.7	15.7		14.3	0	14.3		0	14.3	0		1.2	0	0.6		0	0	0.6	

REF NO.	QR5762				QR5823				QR5824				QR5867							
MODE	E	C	B		E	C	B		E	C	B		E	C	B					
POWER ON	0	0.9	0		4.0	3.9	0		0	0	3.9		0	3.5	0					
STANDBY	0	0.9	0		4.0	3.9	0		0	0	3.9		0	3.5	0					

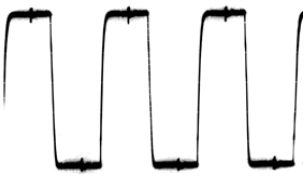
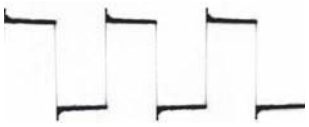
SC-HTB370P/PC(SB-HWA370P/PC) SW SMPS P.C.B.

18.1.3. Waveform Chart

18.1.3.1. Main Unit (SU-HTB370)

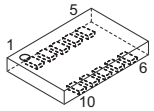
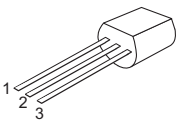
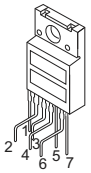
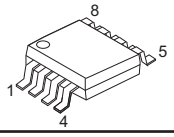
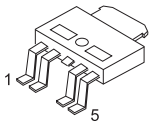
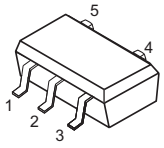
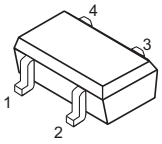
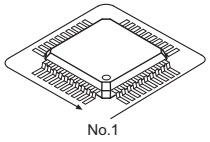
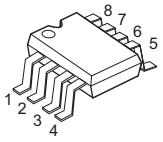
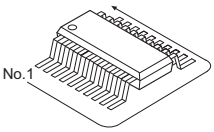
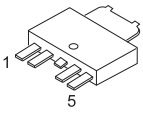
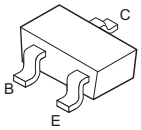
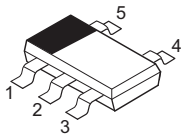
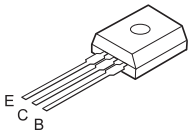
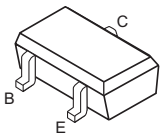
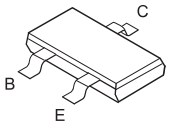
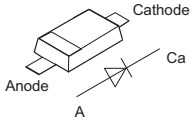
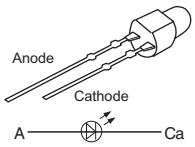
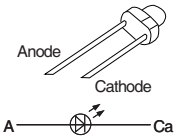
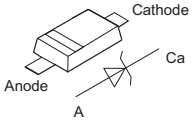
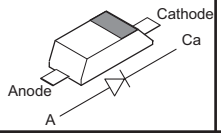
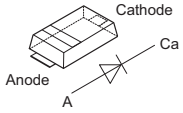
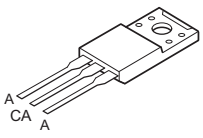
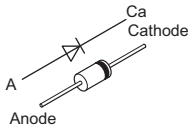
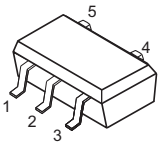
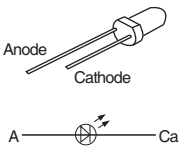
WF No. Q5303-2 (PLAY)  8.8Vp-p(500nsec/div)	WF No. Q5303-3 (PLAY)  24Vp-p(500nsec/div)	WF No. Q5303-5 (PLAY)  7.0Vp-p(500nsec/div)	WF No. Q5304-2 (PLAY)  8.8Vp-p(500nsec/div)
WF No. Q5304-3 (PLAY)  24Vp-p(500nsec/div)	WF No. Q5304-5 (PLAY)  7.0Vp-p(500nsec/div)	WF No. Q5403-2 (PLAY)  8.8Vp-p(500nsec/div)	WF No. Q5403-3 (PLAY)  24Vp-p(500nsec/div)
WF No. Q5403-5 (PLAY)  7.0Vp-p(500nsec/div)	WF No. Q5404-2 (PLAY)  8.8Vp-p(500nsec/div)	WF No. Q5404-3 (PLAY)  24Vp-p(500nsec/div)	WF No. Q5404-5 (PLAY)  7.0Vp-p(500nsec/div)
			SC-HTB370P/PC(SU-HTB370P/PC)

18.1.3.2. Active Subwoofer (SB-HWA370)

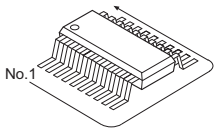
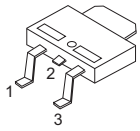
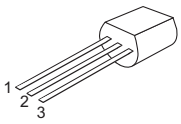
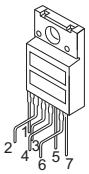
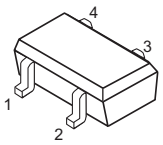
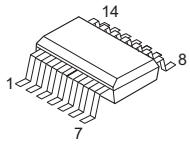
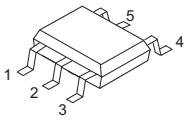
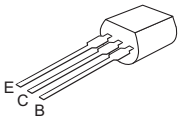
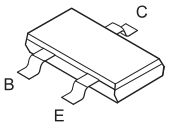
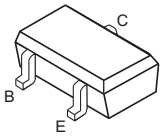
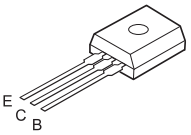
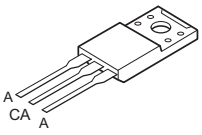
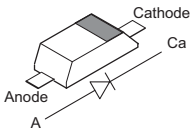
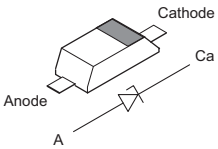
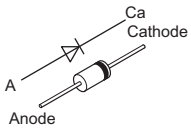
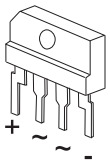
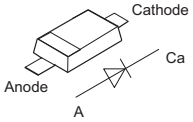
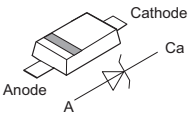
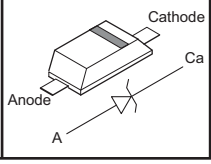
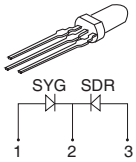
WF No. IC5200-1 (PLAY)  5.6Vp-p(1usec/div)	WF No. IC5200-3 (PLAY)  0.84Vp-p(200usec/div)	WF No. IC5200-10,14 (PLAY)  64Vp-p(1usec/div)	WF No. IC5200-22 (PLAY)  0.84Vp-p(200usec/div)
			SC-HTB370P/PC(SB-HWA370P/PC)

18.2. Illustration of IC's, Transistors and Diodes

18.2.1. Main Unit (SU-HTB370)

C0JBAR000581 	C0DAAYY00072 	C0DABYY00035 	C0DBAYY01282 C0DBEYY00197 C3FBMY000303 	C0DBEJG00001 	C0DBZYY00311 
C0EBY0000872 	RFKWMHTB370M (128P) 	C3EBEY000042 	C0JBAQ000073 (18P) C0BBCZ000008 (44P) 	B1CZRC000001 	B1ABMF000020 B1ABDF000033 B1GBCFJJ0041 
B1CFGD000002 	B1BABG000007 	B1ADCF000001 B1GBCFNN0035 		B1ABCF000011 B1ABCF000176 B1ADBL000010 B1GBCFJJ0051 B1GDCFJJ0008 B1GBCFJJ0048	DA2J10100L 
B3AEA0000166 	B3ADA0000087 		DZ2J056M0L DZ2J068M0L DZ2J075M0L DZ2J120M0L DZ2J200M0L DZ2J330M0L DZ2J043M0L	B0ACCK000005 B0ACCK000012 B0JCMD000010 B0JCGD000016 	B0JCPG000032 
B0ABSM000008 	B0EAKT000063 B0EAMM000057 	B0EBNR000051 	B3ABA0000187 		

18.2.2. Active Subwoofer (SB-HWA370)

C0ABBB000244 (8P) C1BA00000497 (24P) 	C0CBADG00023 	C0DAAYY00072 	C0DABYY00035 	C0EBY0000829 	C0FBBY000124 
C0JBAS000223 	B1AAKD000012 B1ACCF000093 B1ACKD000006 		B1ABCF000011 B1ABCF000176 B1ADCE000012 B1GBCFGG0030 B1GBCFJJ0051 B1GBCFJJ0048 B1GDCFJJ0008	B1ADCF000001 	B1BABG000007 
B0ABSM000008 	B0ACCK000005 	B0BC01600013 	B0EAKT000063 B0EAMM000057 	B0EBNR000051 	DA2J10100L 
DZ2J033M0L DZ2J330M0L 	DZ2J200M0L 	B3AGA0000140 			

18.3. Terminal Function of IC's

18.3.1. IC2000 (C1AB00004019) MICROPROCESSOR IC

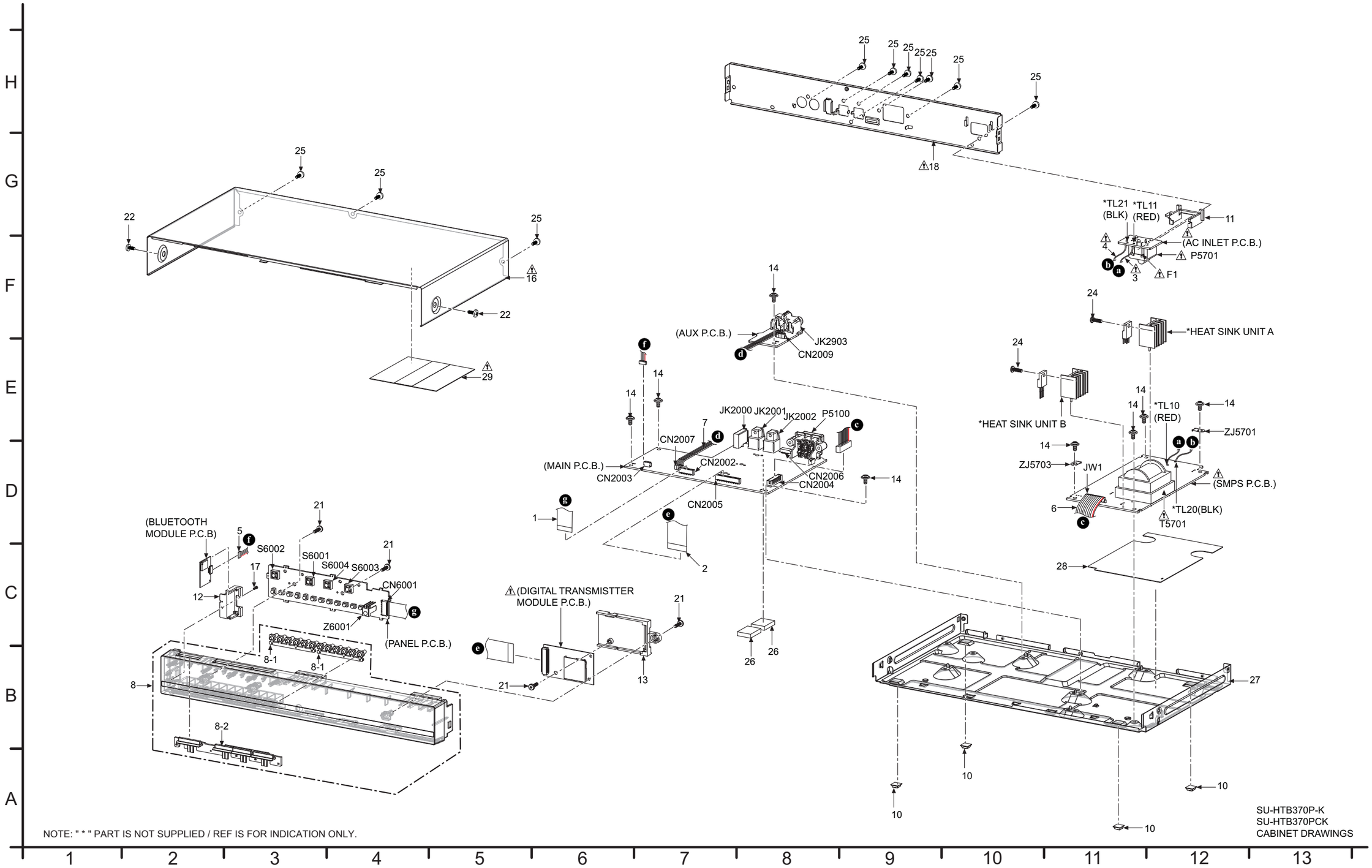
Pin No.	Terminal Name	I/O	Function
1	RESET_N	-	For on board programming
2	JTAG TDO	JTAG	For debugging
3	JTAG TCK	JTAG	For debugging
4	JTAG TDI	JTAG	For debugging
5	JTAG TMS	JTAG	For debugging
6	PCONT	O	Power control
7	S_DET	I	DCDC/LDO Short circuit and OV detection
8	SPDIF IN / ARC	I	SPDIF input
9	HDMI_PCON	O	HDMI power control
10	USB_EN(5V) / USB_SW	O	Bluetooth / Flash
11	USB_OC	I	Bluetooth / Flash
12	WL_SDA / EEP_SDA	I2C	Wireless control
13	WL_SCL / EEP_SCL	I2C	Wireless control
14	IR	I	Remote control input
15	ECO_PCONT	O	ECO mode control
16	SD_OUT	O	Protection on shut down output
17	DC_DET	I	DAMP & SMPS abnormal detection
18	AC SYNC	I	Detection of AC Power fail
19	VDDIO3P3	-	3.3V Digital logic I/O supply
20	USB_DM	I/O	Bluetooth / Flash update
21	USB_DP	I/O	Bluetooth / Flash update
22	VDDIG1P2	-	1.2V Digital core supply
23	AUX_L1	I	AUX input
24	AUX_COM	I	AUX input
25	AUX_R1	I	AUX input
26	AUX_L2	I	Backup Bluetooth analog input.
27	AUX_COM2	I	Backup Bluetooth analog input.
28	AUX_R2	I	Backup Bluetooth analog input.
29	SW_GND	-	Analog ground
30	HP_VCM	-	Common voltage for analog
31	SW_OUT	-	No Connection
32	FAN_CTRL	-	No Connection
33	FBP_1	-	No Connection
34	FBN_1	-	No Connection
35	HB_LN_1	-	No Connection
36	HB_HN_1	-	No Connection
37	HB_LP_1	-	No Connection
38	HB_HP_1	-	No Connection
39	AGND	-	Analog ground
40	OTW	I	DAMP Over Temperature
41	PHALF1	-	PVDD 1/2 voltage bias bypass
42	HB_LN_2	-	Amplifier output for Front Speaker Left
43	HB_HN_2	-	Amplifier output for Front Speaker Left
44	HB_LP_2	-	Amplifier output for Front Speaker Left
45	HB_HP_2	-	Amplifier output for Front Speaker Left
46	FBN_2	-	Negative feedback for Front Speaker Left
47	FBP_2	-	Positive feedback for Front Speaker Left
48	PVDD 6V	-	6V Supply voltage for power FET drive stage
49	AGND	-	Analog ground
50	FET OCP	-	Analog ground
51	BYP_BG	-	Bypass capacitor for band gap
52	BYP_AN	-	Regulated supply voltage bypass: Analog circuit blocks
53	AGND	-	Analog ground
54	AVDD 3.6 V	-	3.6V DC voltage input to analog regulators
55	PVDD 6V	-	6V Supply voltage for power FET drive stage
56	FBP_3	-	Positive feedback for Front Speaker Right
57	FBN_3	-	Negative feedback for Front Speaker Right
58	HB_HP_3	-	Amplifier output for Front Speaker Right
59	HB_LP_3	-	Amplifier output for Front Speaker Right
60	HB_HN_3	-	Amplifier output for Front Speaker Right
61	HB_LN_3	-	Amplifier output for Front Speaker Right
62	PHALF2	-	Amplifier output for Front Speaker Right
63	SD_IN	I	DAMP Overload or Overtemp
64	AGND	-	Analog ground
65	HB_HP_4	-	No Connection
66	HB_LP_4	-	No Connection
67	HB_HN_4	-	No Connection
68	HB_LN_4	-	No Connection
69	FBP_4	-	No Connection
70	FBN_4	-	No Connection
71	AGND	-	Analog ground
72	XTALP	-	12.288MHz external crystal connection.
73	XTALN	-	12.288MHz external crystal connection.
74	SWREG_PHALF	-	Switching regulator bias
75	SWREG_PVDD	-	Switching regulator power
76	SWREG_GND	-	Switching regulator ground
77	SWREG_OUT	-	Switching regulator output
78	VDDDIG1P2	-	1.2V Digital core supply
79	HDMI_MCLK_IN	-	No Connection
80	HDMI_MCLK_OUT	-	No Connection
81	POWER DOWN	-	No Connection
82	VDD COMP	O	Clock for OCP comparator
83	VALID	I	VALID info of DAMP/Temp detect
84	DAP_SCL	-	No Connection
85	DAP_SDA	-	No Connection
86	SPDIF IN (TV)	I	Direct input
87	DAP_RESET	O	DAMP reset
88	DAP_MUTE	O	Mute control for DAMP
89	VDDIO3P3	-	3.3V Digital logic I/O supply
90	DAP_CT/SW & WL_SW	O	DAP and wireless subwoofer split output to wireless and DAP
91	DAP_FL/FR	O	Direct to DAP
92	DAP_SCLK & WL_SCLK	O	Bit input clock
93	DAP_LRCK & WL_LRCK	O	Word input clock
94	SPDIF_IN (BD/DVD)	I	Direct input
95	CEC	-	No Connection
96	HDMI_SCL	-	No Connection
97	HDMI_SDA	-	No Connection
98	HDMI_INT TX	-	No Connection

Pin No.	Terminal Name	I/O	Function
99	HDMI_MUTE_DET	-	No Connection
100	HDMI_VSYNC	-	No Connection
101	HDMI_RESET_DET	-	No Connection
102	V_CHECK	-	No Connection
103	HDMI_MUTE_DIS	-	No Connection
104	ECO_LEV	I	ECO LEVEL detection
105	REGION	I	Region setting
106	MODEL	I	Model setting
107	DIM_CTRL	O	Dimmer on/off
108	VFD_STB	I	ESD reset
109	LOG_UART_TX	O	For on board programming & Log monitor
110	LOG_UART_RX	I	For on board programming & Log monitor
111	HDMI_SCLK	-	No Connection
112	HDMI_LRCK	-	No Connection
113	VDDIO3P3	-	No Connection
114	VDDDIG1P2	-	No Connection
115	HDMI_SBL/SBR	-	No Connection
116	HDMI_SL/SR	-	No Connection
117	HDMI_LFE_C	-	No Connection
118	HDMI_FL/FR	-	No Connection
119	SPK_POS_DET	-	No Connection
120	KEY 1	I	ADC (IN)
121	KEY 2	I	ADC (IN)
122	LED_OE	O	LED control
123	LED_LCK	O	LED control
124	M_SSB	O	Flash control
125	M_CLK / LED_CLK	O	Flash control / LED control
126	M_MISO / LED_MISO	I	MISO_DSP / DT_OUT_CODEC
127	M_MOSI / LED_DATA	O	Flash control / LED control
128	VDDIO3P3	-	3.3V Digital logic I/O supply

19 Exploded View and Replacement Parts List

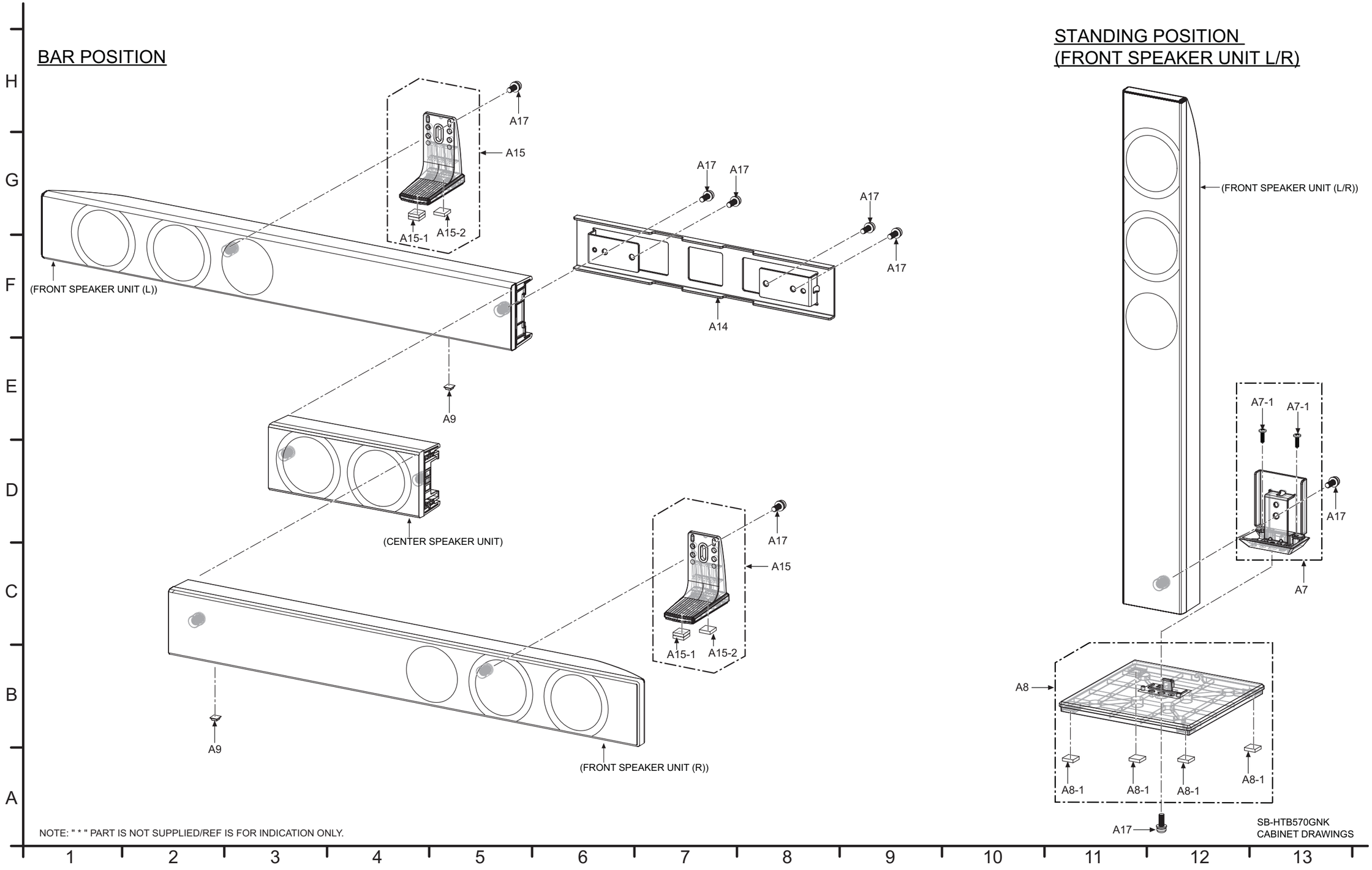
19.1. Exploded View and Mechanical replacement Parts List

19.1.1. Cabinet Parts Location (SU-HTB370)

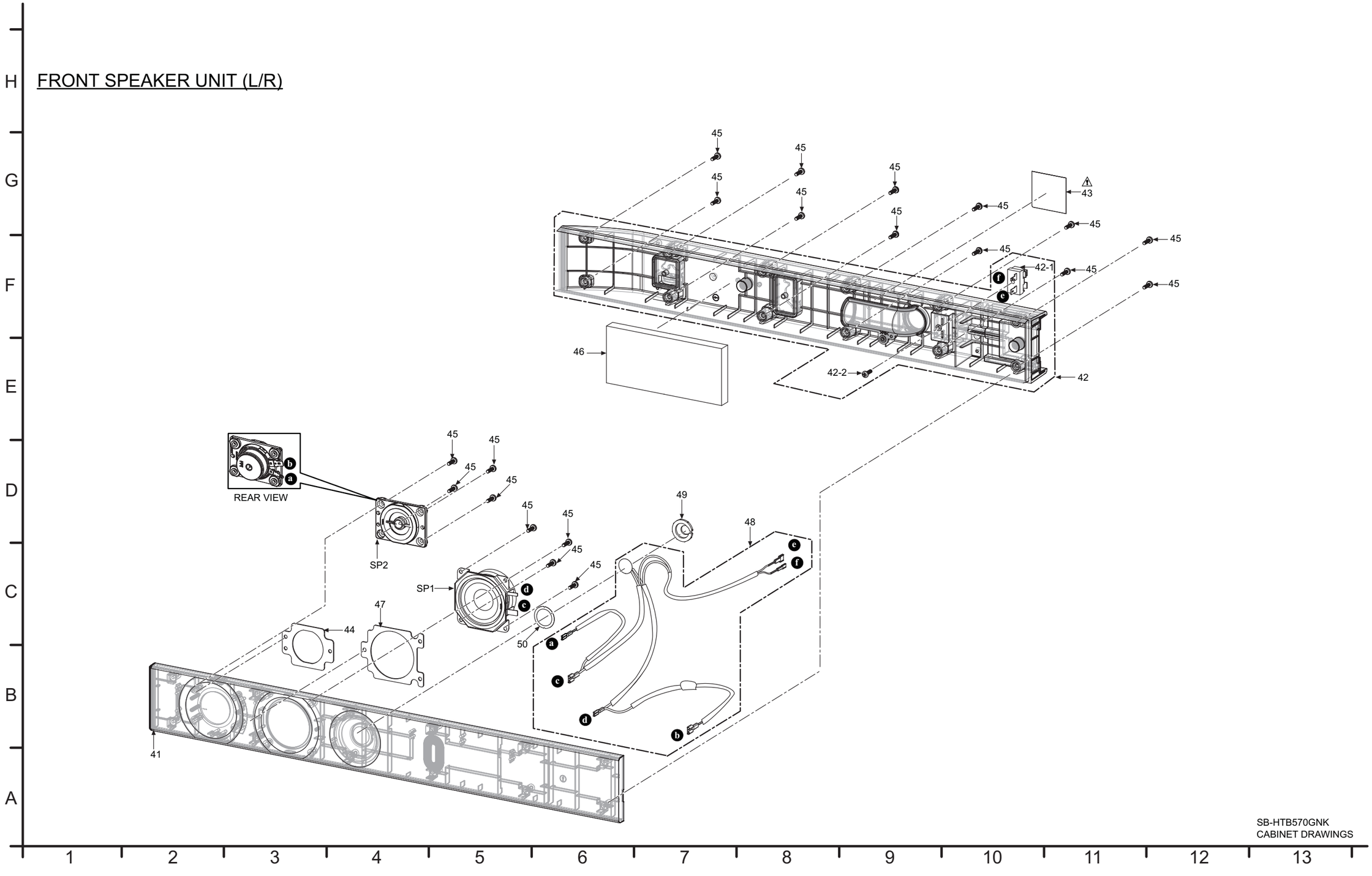


NOTE: " * " PART IS NOT SUPPLIED / REF IS FOR INDICATION ONLY.

19.1.2. Cabinet Parts Location (SB-HTB570)

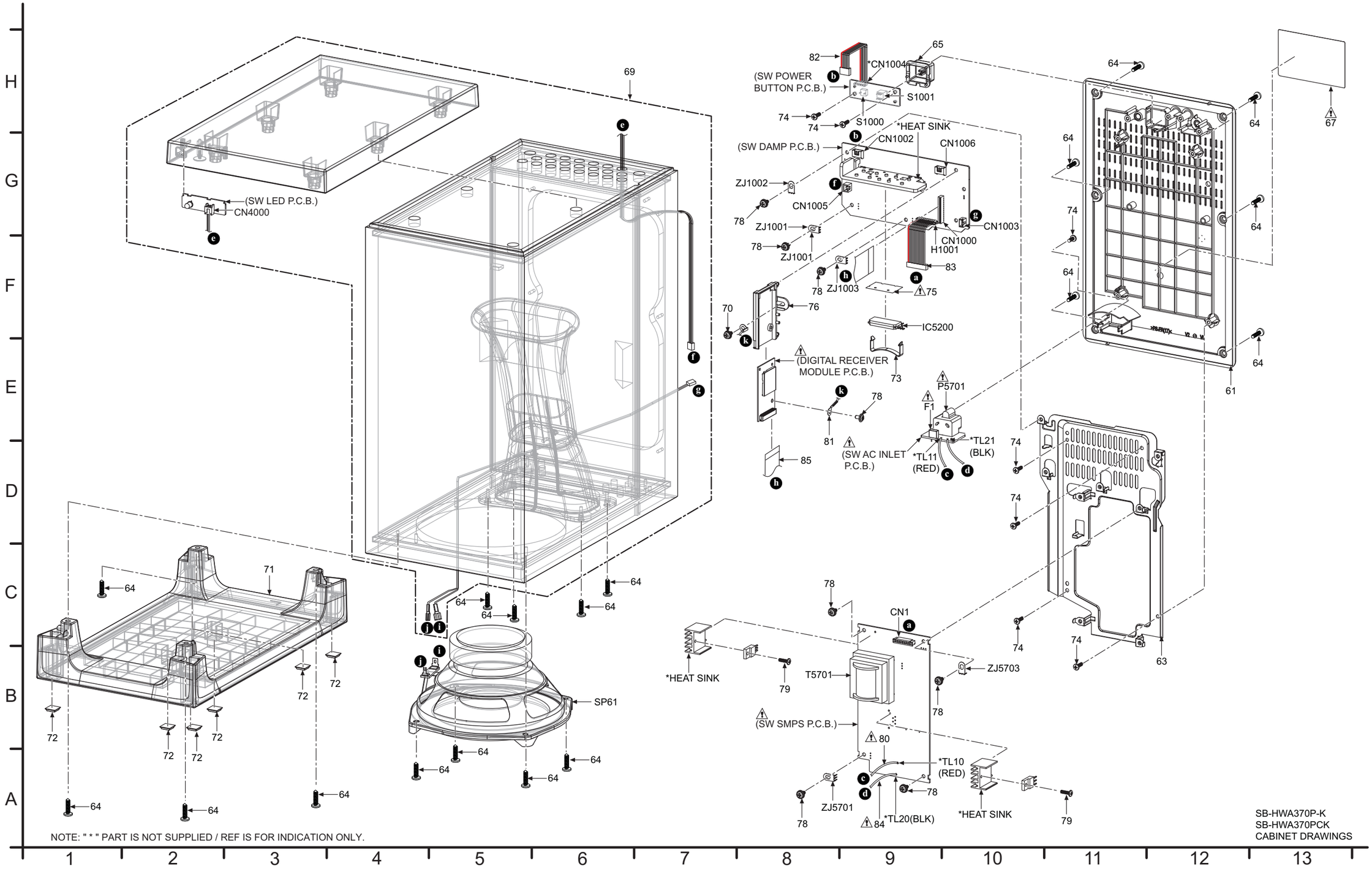


FRONT SPEAKER UNIT (L/R)



SB-HTB570GNK
CABINET DRAWINGS

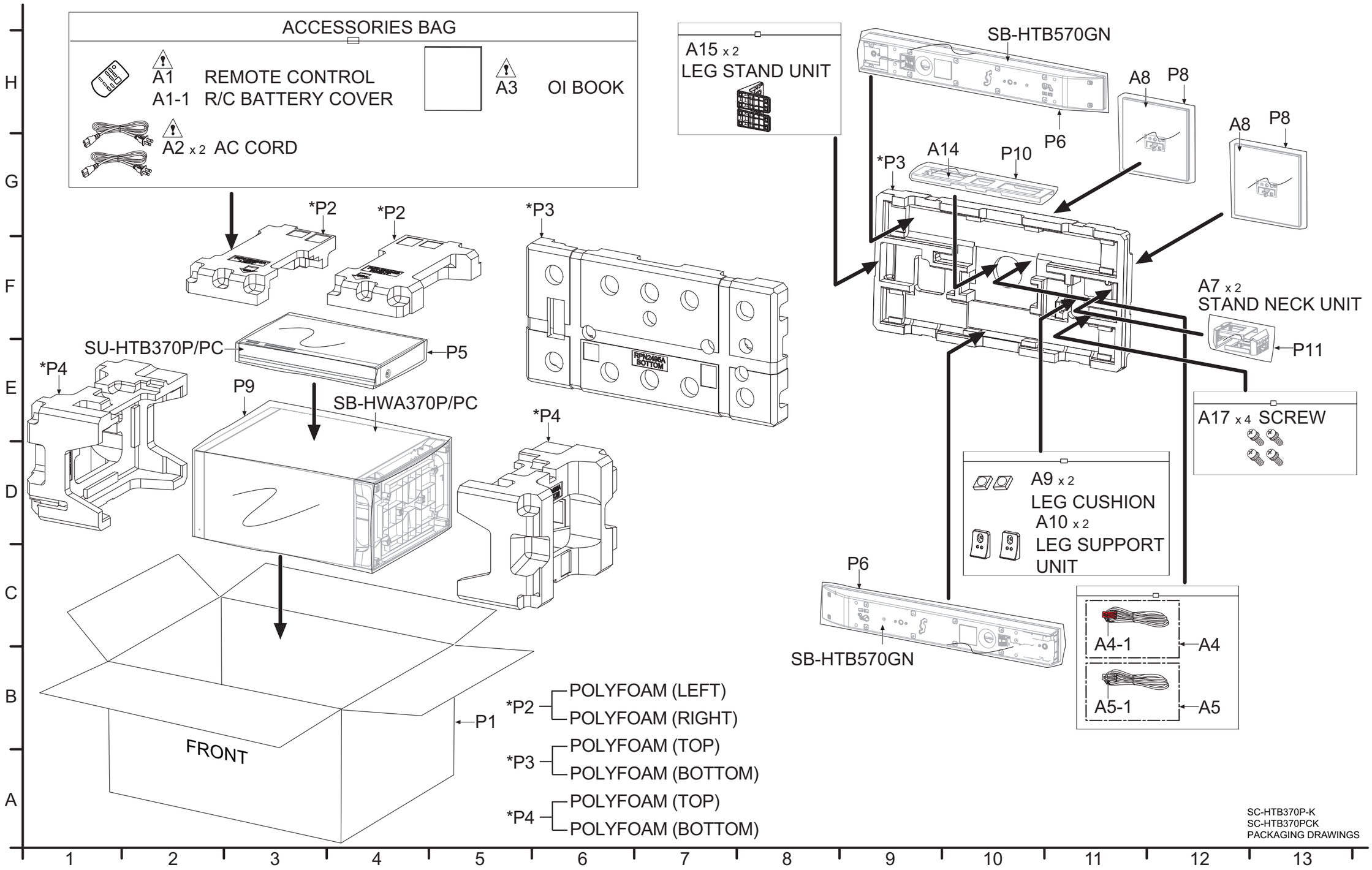
19.1.3. Cabinet Parts Location (SB-HWA370)



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

SB-HWA370P-K
SB-HWA370PCK
CABINET DRAWINGS

19.1.4. Packaging (SC-HTB370)



19.1.5. Mechanical Replacement Parts List

Important Safety Notice

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

RTL (Retention Time Limited)

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

Note:

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

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

19.1.5.1. Main Unit (SU-HTB370)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			CABINET AND CHASSIS		
	1	REE1751	13P FFC (PANEL-MAIN)	1	
	2	REE1752	24P FFC(TX MODULE - MAIN)	1	
⚠	3	REX1579	1P RED WIRE(SMPS - AC INLET)	1	
⚠	4	REX1580	1P BLACK WIRE (SMPS - AC INLET)	1	
	5	REX1581	5P FFC (BLUETOOTH-MAIN)	1	
	6	REX1583	10P CABLE WIRE (SMPS-MAIN)	1	
	7	REX1586	4P CABLE WIRE (AUX-MAIN)	1	
	8	RYP1838-K1	FRONT PANEL UNIT	1	
	8-1	RGL0783-Q1	LED CHIP	2	
	8-2	RGU2857-K	POWER BUTTON	1	
	10	RKAX0042-K	LEG CUSHION	4	
	11	RMN0941-1	AC INLET HOLDER	1	
	12	RMQ2131	BLUETOOTH PCB HOLDER	1	
	13	RMQ2132	DIGITAL TRANSMITTER PCB HOLDER	1	
	14	RHD30172	SCREW	8	
⚠	16	RKM0662B-K	TOP PANEL	1	
	17	RHD14129	SCREW	1	
⚠	18	RGR0441A-B1	REAR PANEL	1	P
⚠	18	RGR0441A-B1	REAR PANEL	1	PC
	21	RHD26046	SCREW	4	
	22	RHD30007-K2J	SCREW	2	
	24	RHD30102-1	SCREW	2	
	25	RHD30119-S	SCREW	10	
	26	RSCX1060	RADIATOR SHEET	2	
	27	RMK0843	BOTTOM CHASSIS	1	
	28	RMZ1346	SMPS BOTTOM INSULATOR	1	
⚠	29	RMZ1268	SMPS TOP INSULATOR	1	

19.1.5.2. Front Speakers (SB-HTB570)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			CABINET AND CHASSIS		
	41	RYQ1246-K	FRONT PANEL ASSY	1	
	42	RYQ1247-K	REAR CABINET ASSY	1	
	42-1	K4BC02B00017	TERMINAL	1	
	42-2	XTB3+10JFJK	SCREW	1	
⚠	43	RGN3322-K	SPEC LABEL	1	
	44	RMF0458-J	TWEETER SHEET	1	
	45	XTB3+10JFJK	SCREW	20	
	46	RMF0608	ACOUSTIC ABSORBER	1	
	47	RMF0605	SPEAKER EVA	1	
	48	REX1608-1	SPK WIRE ASS'Y	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	49	RMR2064-H	PIEZO COVER	1	
	50	RMQX0084-S	PIEZO CAP	1	
			SPEAKERS		
	SP1	L0AZ03A00016	TWEETER SPEAKER	1	
	SP2	L0AA05A00101	WOOFER SPEAKER	1	

19.1.5.3. Active Subwoofer (SB-HWA370)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			CABINET AND CHASSIS		
	61	RYQ1164-K	REAR PANEL ASS'Y	1	
	63	RMK0839	METAL CHASSIS	1	
	64	XTB4+16AFJK	SCREW	18	
	65	RGU2884-K	POWER BUTTON	1	
⚠	67	RGN3303-K1	SPEC LABEL	1	HWA370P
⚠	67	RGN3321-K1	SPEC LABEL	1	HWA370P C
	69	RYQ1299-K	SPEAKER CABINET ASS'Y	1	
	70	RHD30111-31	SCREW	1	
	71	RGP1648-K	BOTTOM PANEL	1	
	72	RKA0072-KJ	LEG CUSHION	6	
	73	RMCX0035	LEAF SPRING	1	
	74	XTB3+10JFJK	SCREW	7	
⚠	75	RMZX0026-1	IC INSULATOR	1	
	76	RMN1047	RX PCB HOLDER	1	
	78	RHDX301005	SCREW	8	
	79	RHD30102-1	SCREW	2	
⚠	80	REX1579	1P RED WIRE (SMPS - AC INLET)	1	
	81	REE1749	1P GROUND WIRE (RX MODULE - DAMP)	1	
	82	REX1436	4P CABLE WIRE (POWER BUTTON - DAMP)	1	
	83	REX1578	10P CABLE WIRE (DAMP - SMPS)	1	
⚠	84	REX1580	1P BLACK WIRE(SMPS - AC INLET)	1	
	85	REE1750	24 FFC (DAMP - RX MODULE)	1	
			SPEAKER		
	SP61	L0AA16A00046	SPEAKER	1	

19.1.5.4. Packaging & Accessories (SC-HTB370)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			ACCESSORIES		
⚠	A1	N2QAYC000083	REMOTE CONTROL	1	
	A1-1	RKK-HTB10GNK	R/C BATTERY COVER	1	
⚠	A2	K2CB2CB00022	AC CORD	2	
⚠	A3	RQT9776-Y	O/I BOOK (Cf)	1	PC
⚠	A3	RQT9777-P	O/I BOOK (En)	1	
	A4	REE1789	SP CORD (3M)	1	
	A4-1	RHQX1002R	SPK CONNECTOR HOUSING (RED)	1	
	A5	REE1790	SP CORD (3M WHITE)	1	
	A5-1	RHQX1002W	SPK CONNECTOR HOUSING (WHITE)	1	
	A7	RGK2444-K	STAND NECK UNIT	2	
	A7-1	XTB3+10JFJK	SCREW	2	
	A8	RGK2465-K	BASE UNIT	2	
	A8-1	RKAX0028-K	LEG FELT	4	
	A9	RKAX0042-K	LEG CUSHION	2	
	A10	RGK2464-K	LEG SUPPORT UNIT	2	
	A14	RML0761	METAL BRACKET CENTER	1	
	A15	RGK2463-K	LEG STAND UNIT	2	
	A15-1	RKA0288-K	RUBBER LEG	2	
	A15-2	RKAX0028-K	LEG FELT	2	
	A17	XYN5+J14FJK	SCREW	4	
			PACKING MATERI-ALS		
	P1	RPG0C50	PACKING CASE (SC)	1	P
	P1	RPG0C51-1	PACKING CASE (SC)	1	PC
	P2	RPN2494	POLYFOAM (SU)	1	
	P3	RPN2495	POLYFOAM (SB-HTB)	1	
	P4	RPN2496	POLYFAOM (SB-HWA)	1	
	P5	RPF0610	MIRAMAT (SU)	1	
	P6	RPF0653	MIRAMAT(SB-HTB)	2	
	P8	RPF0579	MIRAMAT (BASE)	2	
	P9	RPFX1048	MIRAMAT (HW)	1	
	P10	RPF0651	MIRAMAT (METAL BRACKET CENTER)	1	
	P11	RPF0581	MIRAMAT	1	

19.2. 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 PAVCJM unless indicated likewise.

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

19.2.1. Main Unit (SU-HTB370)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			PRINTED CIR-CUITS BOARDS		
	PCB1	REP4867HC	AUX P.C.B.	1	(RTL)
	PCB2	REP4867HA	MAIN P.C.B.	1	(RTL)
	PCB3	REP4862B	PANEL P.C.B.	1	(RTL)
⚠	PCB4	REP4860F	SMPS P.C.B.	1	(RTL)
⚠	PCB5	REP4860F	AC INLET P.C.B.	1	(RTL)
⚠	PCB6	REP4864A	DIGITAL TRANS-MISTTER MODULE P.C.B.	1	
⚠	PCB7	N5HZZ0000128	BLUETOOTH MOD-ULE P.C.B.	1	
			INTEGRATED CIR-CUITS		
	IC2000	C1AB00004019	IC	1	(E.S.D)
	IC2001	RFKWEHTB370M	IC	1	(E.S.D)
	IC2002	C3EBEY000042	IC	1	(E.S.D)
	IC2003	C0JBAR000581	IC	1	(E.S.D)
	IC2004	C0DBZYY00311	IC	1	(E.S.D)
	IC2200	C0DBAYY01282	IC	1	(E.S.D)
	IC2202	C0DBEJG00001	IC	1	(E.S.D)
	IC2203	C0DBEYY00197	IC	1	(E.S.D)
	IC2204	C0DBEYY00197	IC	1	(E.S.D)
	IC5201	C0BBCZ000008	IC	1	(E.S.D)
	IC5701	C0DABYY00035	IC	1	(E.S.D)
	IC5801	C0DAAYY00072	IC	1	(E.S.D)
	IC5822	C0EBY0000872	IC	1	(E.S.D)
	IC6001	C0JBAQ000073	IC	1	(E.S.D)
			TRANSISTORS		

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	Q2000	B1CFGD000002	TRANSISTOR	1	(E.S.D)
	Q2001	B1CFGD000002	TRANSISTOR	1	(E.S.D)
	Q5301	B1ABDF000033	TRANSISTOR	1	(E.S.D)
	Q5302	B1ABDF000033	TRANSISTOR	1	(E.S.D)
	Q5303	B1CZRC000001	TRANSISTOR	1	(E.S.D)
	Q5304	B1CZRC000001	TRANSISTOR	1	(E.S.D)
	Q5401	B1ABDF000033	TRANSISTOR	1	(E.S.D)
	Q5402	B1ABDF000033	TRANSISTOR	1	(E.S.D)
	Q5403	B1CZRC000001	TRANSISTOR	1	(E.S.D)
	Q5404	B1CZRC000001	TRANSISTOR	1	(E.S.D)
	Q5720	B1BABG000007	TRANSISTOR	1	(E.S.D)
	Q5760	B1ADCF000001	TRANSISTOR	1	(E.S.D)
	Q5761	B1ABCF000011	TRANSISTOR	1	(E.S.D)
	Q5802	B1ABCF000011	TRANSISTOR	1	(E.S.D)
	Q5803	B1ADBL000010	TRANSISTOR	1	(E.S.D)
	Q5804	B1ABCF000011	TRANSISTOR	1	(E.S.D)
	Q5805	B1ABCF000011	TRANSISTOR	1	(E.S.D)
	Q5863	B1ABCF000176	TRANSISTOR	1	(E.S.D)
	Q5864	B1ABCF000176	TRANSISTOR	1	(E.S.D)
	Q5865	B1ADCF000001	TRANSISTOR	1	(E.S.D)
	Q5866	B1ABCF000176	TRANSISTOR	1	(E.S.D)
	QR2301	B1GBCFNN0035	TRANSISTOR	1	(E.S.D)
	QR2302	B1GBCFJJ0048	TRANSISTOR	1	(E.S.D)
	QR2303	B1GBCFJJ0048	TRANSISTOR	1	(E.S.D)
	QR5201	B1GBCFJJ0041	TRANSISTOR	1	(E.S.D)
	QR5762	B1GBCFJJ0048	TRANSISTOR	1	(E.S.D)
	QR5823	B1GDCFJJ0008	TRANSISTOR	1	(E.S.D)
	QR5824	B1GBCFJJ0048	TRANSISTOR	1	(E.S.D)
	QR5867	B1GBCFJJ0051	TRANSISTOR	1	(E.S.D)
	QR6002	B1ABMF000020	TRANSISTOR	1	(E.S.D)
	QR6003	B1ABCF000011	TRANSISTOR	1	(E.S.D)
	QR6004	B1GBCFJJ0048	TRANSISTOR	1	(E.S.D)
			DIODES		
	D2000	B0JCGD000016	DIODE	1	(E.S.D)
	D2201	B0JCPG000032	DIODE	1	(E.S.D)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	D2205	B0JCPG000032	DIODE	1	(E.S.D)
	D2301	DZ2J075M0L	DIODE	1	(E.S.D)
	D2303	DZ2J068M0L	DIODE	1	(E.S.D)
	D2304	B0ACCK000012	DIODE	1	(E.S.D)
	D2305	DZ2J056M0L	DIODE	1	(E.S.D)
	D2307	DZ2J043M0L	DIODE	1	(E.S.D)
	D2308	B0ACCK000012	DIODE	1	(E.S.D)
	D2309	DZ2J043M0L	DIODE	1	(E.S.D)
	D2312	B0ACCK000012	DIODE	1	(E.S.D)
	D5201	B0JCMD000010	DIODE	1	(E.S.D)
	D5202	B0JCMD000010	DIODE	1	(E.S.D)
	D5203	DZ2J068M0L	DIODE	1	(E.S.D)
	D5204	DA2J10100L	DIODE	1	(E.S.D)
	D5205	DA2J10100L	DIODE	1	(E.S.D)
	D5301	B0ACCK000005	DIODE	1	(E.S.D)
	D5401	B0ACCK000005	DIODE	1	(E.S.D)
	D5701	B0EBNR000051	DIODE	1	(E.S.D)
	D5702	B0EAKT000063	DIODE	1	(E.S.D)
	D5704	DZ2J200M0L	DIODE	1	(E.S.D)
	D5705	DZ2J200M0L	DIODE	1	(E.S.D)
	D5706	DA2J10100L	DIODE	1	(E.S.D)
	D5707	DA2J10100L	DIODE	1	(E.S.D)
	D5710	DA2J10100L	DIODE	1	(E.S.D)
	D5712	B0EAMM000057	DIODE	1	(E.S.D)
	D5713	DZ2J330M0L	DIODE	1	(E.S.D)
	D5760	DA2J10100L	DIODE	1	(E.S.D)
	D5802	B0ABSM000008	DIODE	1	(E.S.D)
	D5803	B0ACCK000005	DIODE	1	(E.S.D)
	D5803	B0EAMM000057	DIODE	1	(E.S.D)
	D5804	B0ACCK000005	DIODE	1	(E.S.D)
	D5804	B0EAMM000057	DIODE	1	(E.S.D)
	D5823	DZ2J120M0L	DIODE	1	(E.S.D)
	D6001	B3ABA0000187	DIODE	1	(E.S.D)
	D6002	B3ABA0000187	DIODE	1	(E.S.D)
	D6003	B3ABA0000187	DIODE	1	(E.S.D)
	D6004	B3ADA0000087	DIODE	1	(E.S.D)
	D6005	B3AEA0000166	DIODE	1	(E.S.D)
	D6007	B3ADA0000087	DIODE	1	(E.S.D)
	D6008	B3ABA0000187	DIODE	1	(E.S.D)
	D6009	B3ABA0000187	DIODE	1	(E.S.D)
	D6010	B3ABA0000187	DIODE	1	(E.S.D)
	D6011	B3ABA0000187	DIODE	1	(E.S.D)
⚠	DZ5701	ERZV10V511CS	ZNR	1	(E.S.D)
			VARISTORS		
	VA2000	EZJZ1V171AA	VARISTOR	1	
	VA2001	EZJZ1V171AA	VARISTOR	1	
	VA2901	EZAEG2A50AX	VARISTOR	1	
	VA2902	EZAEG2A50AX	VARISTOR	1	
			CABLE HOLDER		
	JW1	K1YZ10000001	10P CABLE HOLDER	1	
			SWITCHES		
	S6001	EVQ21405RJ	SW VOLUME DOWN	1	
	S6002	EVQ21405RJ	SW POWER	1	
	S6003	EVQ21405RJ	SW SELECTOR	1	
	S6004	EVQ21405RJ	SW VOLUME UP	1	
			CONNECTORS		
	CN2002	K1MN13AA0046	13P CONNECTOR	1	
	CN2003	K1KA05AA0051	5P CONNECTOR	1	
	CN2004	K1KA10AA0194	10P CONNECTOR	1	
	CN2005	K1MN24AA0046	24P CONNECTOR	1	
	CN2006	K1MN08BA0147	8P CONNECTOR	1	
	CN2007	K1YZ04000002	4P CABLE HOLDER	1	
	CN2009	K1YZ04000002	4P CABLE HOLDER	1	
	CN6001	K1MN13B00019	13P CONNECTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			COILS AND INDUCTORS		
	L2000	G1C150M00023	INDUCTOR	1	
	L2201	G1C330MA0291	INDUCTOR	1	
	L5301	G0A100H00018	CHOKE COIL	1	
	L5302	G0A100H00018	CHOKE COIL	1	
	L5303	G0B9R5K00007	LINE FILTER	1	
	L5401	G0A100H00018	CHOKE COIL	1	
	L5402	G0A100H00018	CHOKE COIL	1	
	L5403	G0B9R5K00007	LINE FILTER	1	
⚠	L5702	G0B922G00004	LINE FILTER	1	
⚠	L5703	G0B922G00004	LINE FILTER	1	
	LB2000	J0JHC0000078	INDUCTOR	1	
	LB2001	J0JHC0000078	INDUCTOR	1	
	LB2002	J0JHC0000034	INDUCTOR	1	
	LB2003	J0JHC0000078	INDUCTOR	1	
	LB2004	J0JHC0000034	INDUCTOR	1	
	LB2005	J0JHC0000078	INDUCTOR	1	
	LB2006	J0JHC0000078	INDUCTOR	1	
	LB2007	J0JBC0000015	INDUCTOR	1	
	LB2008	J0JBC0000015	INDUCTOR	1	
	LB2009	J0JBC0000015	INDUCTOR	1	
	LB2010	J0JBC0000015	INDUCTOR	1	
	LB2011	J0JBC0000015	INDUCTOR	1	
	LB2012	J0JBC0000015	INDUCTOR	1	
	LB2013	J0JBC0000015	INDUCTOR	1	
	LB2014	J0JHC0000034	INDUCTOR	1	
	LB2015	J0JHC0000034	INDUCTOR	1	
	LB2016	J0JBC0000014	INDUCTOR	1	
	LB2017	J0JBC0000014	INDUCTOR	1	
	LB2200	J0JHC0000078	INDUCTOR	1	
			TRANSFORMER		
⚠	T5701	ETS35BL18GAD	TRANSFORMER	1	
			REMOTE SENSOR		
	Z6001	B3RAD0000204	REMOTE SENSOR	1	
			PHOTO COUPLERS		
⚠	PC5720	B3PBA0000579	PHOTO COUPLER	1	
⚠	PC5760	B3PBA0000579	PHOTO COUPLER	1	
			TERMINALS		
	ZJ5701	K4CZ01000027	TERMINAL	1	
	ZJ5703	K4CZ01000027	TERMINAL	1	
	P5100	K4AL02B00002	JK 6P SPEAKER	1	
			OSCILLATOR		
	X2000	H0J122500049	OSCILLATOR	1	
			FUSE		
⚠	F1	K5G312Y00007	FUSE	1	
			THERMISTORS		
⚠	TH5702	D4CAA2R20001	THERMISTOR	1	
⚠	TH5821	D4CC11040005	THERMISTOR	1	
⚠	TH5822	D4CC11040005	THERMISTOR	1	
⚠	TH5860	D4CC11040013	THERMISTOR	1	
			JACKS		
	JK2000	K1FY104B0044	USB CONNECTOR	1	
	JK2001	B3RAB0000056	JK BD/DVD (OPT IN 2)	1	
	JK2002	B3RAB0000056	JK TV (OPT IN 1)	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	JK2903	K2HA2YYA0006	JK AUX	1	
⚠	P5701	K2AB2B000007	AC INLET	1	
			CHIP JUMPERS		
	D5812	D0GDR00JA017	0 1/8W	1	
	K101	D0GBR00J0004	0 1/10W	1	
	K2001	D0GAR00J0005	0 1/16W	1	
	K2004	D0GBR00J0004	0 1/10W	1	
	K5722	D0GBR00JA008	0 1/10W	1	
	K5803	D0GBR00JA008	0 1/10W	1	
	K5804	D0GBR00JA008	0 1/10W	1	
	W1	D0GDR00JA017	0 1/8W	1	
	W4	D0GDR00JA017	0 1/8W	2	
	W6	D0GDR00JA017	0 1/8W	1	
	W7	D0GFR00JA017	0 1/4W	1	
	W8	D0GFR00JA017	0 1/4W	1	
	W12	D0GDR00JA017	0 1/8W	1	
	W12	D0GFR00JA017	0 1/4W	1	
	W13	D0GFR00JA017	0 1/4W	1	
	W14	D0GBR00JA008	0 1/10W	1	
	W15	D0GFR00JA017	0 1/4W	1	
	W16	D0GDR00JA017	0 1/8W	1	
	W17	D0GFR00JA017	0 1/4W	1	
	W18	D0GFR00JA017	0 1/4W	1	
	W19	D0GFR00JA017	0 1/4W	1	
			RESISTORS		
	R2002	D0GAR00J0005	0 1/16W	1	
	R2005	D0GBR00J0004	0 1/10W	1	
	R2010	D0GA103JA023	10K 1/16W	1	
	R2011	D0GA330JA023	33 1/16W	1	
	R2014	D0GA330JA023	33 1/16W	1	
	R2015	D0GA123JA023	12K 1/16W	1	
	R2016	D0GB222JA065	2.2K 1/10W	1	
	R2017	D0GA123JA023	12K 1/16W	1	
	R2018	D0GB682JA065	6.8K 1/10W	1	
	R2028	D0GB472JA065	4.7K 1/10W	1	
	R2029	D0GB472JA065	4.7K 1/10W	1	
	R2030	D0GA473JA023	47K 1/16W	1	
	R2031	D0GA473JA023	47K 1/16W	1	
	R2032	D0GB473JA065	47K 1/10W	1	
	R2033	D0GB273JA065	27K 1/10W	1	
	R2036	D0GA103JA023	10K 1/16W	1	
	R2037	D0GA103JA023	10K 1/16W	1	
	R2042	D0GAR00J0005	0 1/16W	1	
	R2043	D0GAR00J0005	0 1/16W	1	
	R2044	D0GA330JA023	33 1/16W	1	
	R2045	D0GA330JA023	33 1/16W	1	
	R2052	D0GA472JA023	4.7K 1/16W	1	
	R2053	D0GA472JA023	4.7K 1/16W	1	
	R2055	D0GB472JA065	4.7K 1/10W	1	
	R2056	D0GB472JA065	4.7K 1/10W	1	
	R2057	D0GB472JA065	4.7K 1/10W	1	
	R2062	F1G1C1030008	0.01uF 16V	1	
	R2063	F1G1C1030008	0.01uF 16V	1	
	R2069	D0GB102JA008	1K 1/10W	1	
	R2070	D0GB473JA008	47K 1/10W	1	
	R2073	D0GB562JA008	5.6K 1/10W	1	
	R2074	D0GB562JA008	5.6K 1/10W	1	
	R2075	D0GB103JA008	10K 1/10W	1	
	R2076	D0GB103JA008	10K 1/10W	1	
	R2079	D0GB103JA065	10K 1/10W	1	
	R2081	D0GAR00J0005	0 1/16W	1	
	R2082	D0GAR00J0005	0 1/16W	1	
	R2086	D0GB102JA065	1K 1/10W	1	
	R2096	D0GB102JA065	1K 1/10W	1	
	R2200	D0GA103JA023	10K 1/16W	1	
	R2201	D1BB3002A074	30K 1/10W	1	
	R2202	D1BB1503A074	150K 1/10W	1	
	R2206	D1BB8872A074	88.7K 1/10W	1	
	R2207	D1BB4702A074	47K 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R2209	D1BA1502A022	15K 1/16W	1	
	R2210	D1BA4701A022	4.7K 1/16W	1	
	R2216	D1BB3301A074	3.3K 1/10W	1	
	R2217	D1BB1802A074	18K 1/10W	1	
	R2230	D0GA102JA023	1K 1/16W	1	
	R2302	D0GA103JA023	10K 1/16W	1	
	R2390	D0GA102JA023	1K 1/16W	1	
	R2900	D0GBR00J0004	0 1/10W	1	
	R2901	D0GBR00J0004	0 1/10W	1	
	R2907	D0GB103JA065	10K 1/10W	1	
	R2910	D0GB103JA065	10K 1/10W	1	
	R2911	D0GB103JA065	10K 1/10W	1	
	R2912	D0GB103JA065	10K 1/10W	1	
	R5201	D0GB472JA008	4.7K 1/10W	1	
	R5202	D0GB472JA008	4.7K 1/10W	1	
	R5203	D1BA1001A022	1K 1/16W	1	
	R5204	D1BA1802A022	18K 1/16W	1	
	R5205	D0GB682JA008	6.8K 1/10W	1	
	R5207	D0GB220JA008	22 1/10W	1	
	R5208	D0GB100JA008	10 1/10W	1	
	R5209	D0GB124JA008	120K 1/10W	1	
	R5210	D0GB153JA008	15K 1/10W	1	
	R5301	D0GA472JA023	4.7K 1/16W	1	
	R5302	ERJ2GEJ562X	5.6K 1/16W	1	
	R5303	D0GA220JA023	22 1/16W	1	
	R5305	D0GA472JA023	4.7K 1/16W	1	
	R5306	ERJ2GEJ562X	5.6K 1/16W	1	
	R5307	D0GB4R7JA008	4.7 1/10W	1	
	R5309	D0GF100JA048	10 1/4W	1	
	R5310	D0GB4R7JA008	4.7 1/10W	1	
	R5311	D0GF100JA048	10 1/4W	1	
	R5313	D0GB104JA008	100K 1/10W	1	
	R5314	D0GB104JA008	100K 1/10W	1	
	R5326	D0GB562JA008	5.6K 1/10W	1	
	R5331	ERJ8RSFR10V	0.1 1/8W	1	
	R5332	ERJ8RSFR10V	0.1 1/8W	1	
	R5401	D0GA472JA023	4.7K 1/16W	1	
	R5402	ERJ2GEJ562X	5.6K 1/16W	1	
	R5403	D0GA220JA023	22 1/16W	1	
	R5405	D0GA472JA023	4.7K 1/16W	1	
	R5406	ERJ2GEJ562X	5.6K 1/16W	1	
	R5407	D0GB4R7JA008	4.7 1/10W	1	
	R5409	D0GF100JA048	10 1/4W	1	
	R5410	D0GB4R7JA008	4.7 1/10W	1	
	R5411	D0GF100JA048	10 1/4W	1	
	R5413	D0GB104JA008	100K 1/10W	1	
	R5414	D0GB104JA008	100K 1/10W	1	
	R5426	D0GB562JA008	5.6K 1/10W	1	
	R5431	ERJ8RSFR10V	0.1 1/8W	1	
	R5432	ERJ8RSFR10V	0.1 1/8W	1	
⚠	R5700	ERJ8GEYJ155V	1.5M 1/4W	1	
⚠	R5701	ERJ8GEYJ155V	1.5M 1/4W	1	
	R5702	ERJ1TYJ333U	33K 1W	1	
	R5703	ERJ1TYJ333U	33K 1W	1	
⚠	R5710	ERJ8GEYJ155V	1.5M 1/4W	1	
	R5720	ERJ6GEYJ3R3V	3.3 1/8W	1	
	R5721	D0GD222JA017	2.2K 1/8W	1	
	R5722	D0GB562JA008	5.6K 1/10W	1	
	R5727	ERX2SZJR15P	0.15 2W	1	
	R5731	D0GBR00JA008	0 1/10W	1	
	R5732	D0GB471JA008	470 1/10W	1	
	R5733	D0GB273JA008	27K 1/10W	1	
	R5762	D0GB103JA008	10K 1/10W	1	
	R5763	D0GB103JA008	10K 1/10W	1	
	R5764	D0GB472JA008	4.7K 1/10W	1	
	R5766	D0GB333JA008	33K 1/10W	1	
	R5767	D0GB223JA008	22K 1/10W	1	
	R5768	D0GB273JA008	27K 1/10W	1	
	R5801	D0GB472JA008	4.7K 1/10W	1	
	R5801	D0GDR00JA017	0 1/8W	1	
	R5802	D0GB224JA008	220K 1/10W	1	
	R5802	D0HB822ZA002	8.2K 1/16W	1	
	R5803	D0GB224JA008	220K 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R5804	D0GB473JA008	47K 1/10W	1	
	R5804	ERJ3RBD104V	100K 1/16W	1	
	R5805	D0GB563JA008	56K 1/10W	1	
	R5805	ERJ3RBD103V	10K 1/16W	1	
	R5806	D0GB103JA008	10K 1/10W	1	
	R5806	D0GB333JA008	33K 1/10W	1	
	R5807	D0GBR00JA008	0 1/10W	1	
	R5808	D0GB472JA008	4.7K 1/10W	1	
	R5809	D0GD152JA017	1.5K 1/8W	1	
	R5810	D0GB221JA007	220 1/10W	1	
	R5811	D0GB104JA008	100K 1/10W	1	
	R5814	D0GB102JA008	1K 1/10W	1	
	R5817	D0GB473JA008	47K 1/10W	1	
	R5817	D0HB242ZA002	2.4K 1/16W	1	
	R5818	D0GB393JA008	39K 1/10W	1	
	R5819	D0GB151JA008	150 1/10W	1	
	R5821	D1BA6802A022	68K 1/16W	1	
	R5823	D0GF121JA048	120 1/4W	1	
	R5823	D1BA1202A022	12K 1/16W	1	
	R5824	D0GF121JA048	120 1/4W	1	
	R5825	D1BA6802A022	68K 1/16W	1	
	R5826	D1BA1202A022	12K 1/16W	1	
	R5827	ERJ8RSFR10V	0.1 1/8W	1	
	R5829	ERJ8RSFR10V	0.1 1/8W	1	
	R5833	D0GB101JA008	100 1/10W	1	
	R5855	ERJ3RBD103V	10K 1/16W	1	
	R5856	ERJ3RBD103V	10K 1/16W	1	
	R5857	D0GD103JA017	10K 1/8W	1	
	R5858	D0HB123ZA002	12K 1/16W	1	
	R5859	D0GD103JA017	10K 1/8W	1	
	R5861	D0GB104JA008	100K 1/10W	1	
	R5865	D0GD223JA017	22K 1/8W	1	
	R5867	D0GB102JA008	1K 1/10W	1	
	R5868	D0GB103JA008	10K 1/10W	1	
	R5869	D0GB223JA008	22K 1/10W	1	
	R5871	D0GDR00JA017	0 1/8W	1	
	R6001	ERJ6GEYJ221V	220 1/8W	1	
	R6002	ERJ6GEYJ221V	220 1/8W	1	
	R6003	ERJ6GEYJ221V	220 1/8W	1	
	R6004	D0GB271JA008	270 1/10W	1	
	R6005	D0GB202JA008	2K 1/10W	1	
	R6008	D0GB470JA008	47 1/10W	1	
	R6010	D0GB101JA065	100 1/10W	1	
	R6011	D0GB101JA065	100 1/10W	1	
	R6012	D0GB101JA065	100 1/10W	1	
	R6013	D0GB271JA008	270 1/10W	1	
	R6014	D0GB101JA065	100 1/10W	1	
	R6015	D0GB473JA065	47K 1/10W	1	
	R6016	ERJ6GEYJ221V	220 1/8W	1	
	R6018	ERJ6GEYJ221V	220 1/8W	1	
	R6021	D0GB221JA065	220 1/10W	1	
	R6022	D0GB822JA065	8.2K 1/10W	1	
	R6023	D0GBR00J0004	0 1/10W	1	
	R6026	D0GB822JA065	8.2K 1/10W	1	
	R6028	D0GB471JA008	470 1/10W	1	
	R6029	D0GB102JA008	1K 1/10W	1	
	R6030	D0GB332JA008	3.3K 1/10W	1	
	R6031	D0GB103JA008	10K 1/10W	1	
	R6032	ERJ6GEYJ221V	220 1/8W	1	
	R6033	D0GB472JA008	4.7K 1/10W	1	
			RESISTOR NET-WORKS		
	RX2000	D1H83304A042	RESISTOR NETWORK	1	
	RX2001	D1H83304A042	RESISTOR NETWORK	1	
	RX2002	D1H83304A042	RESISTOR NETWORK	1	
	RX2003	D1H83304A042	RESISTOR NETWORK	1	
	RX2004	D1H83304A042	RESISTOR NETWORK	1	
	RX2005	D1H83304A042	RESISTOR NETWORK	1	
	RX2006	D1H83304A042	RESISTOR NETWORK	1	
	RX2007	D1H83304A042	RESISTOR NETWORK	1	
	RX2008	D1H83304A042	RESISTOR NETWORK	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	RX2009	D1H83304A042	RESISTOR NETWORK	1	
			CAPACITORS		
	C2000	F1G0J1050007	1uF 6.3V	1	
	C2001	F1G0J1050007	1uF 6.3V	1	
	C2002	F1G0J1050007	1uF 6.3V	1	
	C2003	F1G0J1050007	1uF 6.3V	1	
	C2004	F1G1C1030008	0.01uF 16V	1	
	C2005	F1G0J1050007	1uF 6.3V	1	
	C2006	F1J1A106A043	10uF 10V	1	
	C2007	F1H1A105A113	1uF 10V	1	
	C2008	F1J1A106A043	10uF 10V	1	
	C2009	F1H1A105A113	1uF 10V	1	
	C2010	F1J1A106A043	10uF 10V	1	
	C2011	F1H1A105A113	1uF 10V	1	
	C2012	F1H1A105A113	1uF 10V	1	
	C2013	F1H1A105A113	1uF 10V	1	
	C2014	F1J1A106A043	10uF 10V	1	
	C2015	F1G0J1050007	1uF 6.3V	1	
	C2016	F1J1A106A043	10uF 10V	1	
	C2017	F1G0J1050007	1uF 6.3V	1	
	C2018	F1J1A106A043	10uF 10V	1	
	C2019	F1J1A106A043	10uF 10V	1	
	C2020	F1G0J1050007	1uF 6.3V	1	
	C2021	F1G1H220A834	22pF 50V	1	
	C2022	F1G1H220A834	22pF 50V	1	
	C2023	F1H1H103A219	0.01uF 50V	1	
	C2024	F1G0J1050007	1uF 6.3V	1	
	C2025	F1J1A106A043	10uF 10V	1	
	C2026	F1G0J1050007	1uF 6.3V	1	
	C2027	F1J1A106A043	10uF 10V	1	
	C2028	F1G1A1050004	1uF 10V	1	
	C2029	F1J1A106A043	10uF 10V	1	
	C2030	F1G0J1050007	1uF 6.3V	1	
	C2031	F1L1A476A060	47uF 10V	1	
	C2032	F1G0J1050007	1uF 6.3V	1	
	C2033	F1H1H103A219	0.01uF 50V	1	
	C2034	F1H1H103A219	0.01uF 50V	1	
	C2035	F1H1H103A219	0.01uF 50V	1	
	C2036	F1G0J1050007	1uF 6.3V	1	
	C2037	F1G0J1050007	1uF 6.3V	1	
	C2038	F1H1H103A219	0.01uF 50V	1	
	C2039	F1H1H103A219	0.01uF 50V	1	
	C2040	F1H0J105A051	1uF 6.3V	1	
	C2041	F1G1A1040006	0.1uF 10V	1	
	C2042	F1H1H104B047	0.1uF 50V	1	
	C2043	F1G1A1040006	0.1uF 10V	1	
	C2044	F1G1A1040006	0.1uF 10V	1	
	C2045	F1G1A1040006	0.1uF 10V	1	
	C2046	F1G1C1030008	0.01uF 16V	1	
	C2047	F1J1A106A043	10uF 10V	1	
	C2048	F1G1C1030008	0.01uF 16V	1	
	C2049	F1J1A106A043	10uF 10V	1	
	C2050	F1G1A1040006	0.1uF 10V	1	
	C2078	F1J1A106A043	10uF 10V	1	
	C2097	F1G1H680A644	150pF 50V	1	
	C2099	F1J1A106A043	10uF 10V	1	
	C2201	F1H1H104B047	0.1uF 50V	1	
	C2202	EEE1HA100SP	10uF 50V	1	
	C2203	F1H1H103A219	0.01uF 50V	1	
	C2204	F1H1H682A219	6800pF 50V	1	
	C2205	F1G1A1040006	0.1uF 10V	1	
	C2206	F1L1A476A060	47uF 10V	1	
	C2213	F1H1A105A113	1uF 10V	1	
	C2215	F1L1A476A060	47uF 10V	1	
	C2216	D0GB561JA065	560 1/10W	1	
	C2217	F1H1A225A051	2.2uF 10V	1	
	C2218	F1H1A225A051	2.2uF 10V	1	
	C2219	F1H1A225A051	2.2uF 10V	1	
	C2220	F1H1A225A051	2.2uF 10V	1	
	C2222	F1G1A1040006	0.1uF 10V	1	
	C2224	F1H1H103A219	0.01uF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C2300	F1G1A1040006	0.1uF 10V	1	
	C2302	F1G1A1040006	0.1uF 10V	1	
	C2304	F1G1A1040006	0.1uF 10V	1	
	C2900	F1G1C1030008	0.01uF 16V	1	
	C2901	F1G1H221A459	220pF 50V	1	
	C2902	F1G1H221A459	220pF 50V	1	
	C2912	F1G1C1030008	0.01uF 16V	1	
	C2913	F1G1C1030008	0.01uF 16V	1	
	C2914	F1J1A106A043	10uF 10V	1	
	C2915	F1J1A106A043	10uF 10V	1	
	C2918	EEE0JA101WR	100uF 6.3V	1	
	C5201	F1H1E105A116	1uF 25V	1	
	C5203	F1H1H103A238	0.01uF 50V	1	
	C5205	F1H1H103A238	0.01uF 50V	1	
	C5206	F1H1A105A113	1uF 10V	1	
	C5207	F1H1H104A913	0.1uF 50V	1	
	C5208	F2A1H1R0A213	1.0uF 50V	1	
	C5209	F1H1H103A238	0.01uF 50V	1	
	C5210	F1H1A105A113	1uF 10V	1	
	C5301	F1G1E1040001	0.1uF 25V	1	
	C5302	F1H1H104A913	0.1uF 50V	1	
	C5303	F1H1H104A913	0.1uF 50V	1	
	C5304	F1G1E1040001	0.1uF 25V	1	
	C5305	F1G1E1040001	0.1uF 25V	1	
	C5306	F1J1V1050001	2.2uF 10V	1	
	C5308	F1H1H104A913	0.1uF 50V	1	
	C5309	F1H1H102A219	1000pF 50V	1	
	C5311	F1H1H221A792	220pF 50V	1	
	C5312	F1H1H104A913	0.1uF 50V	1	
	C5313	F1H1H101A230	100pF 50V	1	
	C5314	F1H1H102A219	1000pF 50V	1	
	C5315	F1H1H221A792	220pF 50V	1	
	C5316	F2A1V4710074	470uF 35V	1	
	C5317	ECQV1H105JL3	1uF 50V	1	
	C5323	F1H1H102A219	1000pF 50V	1	
	C5324	F1H1H102A219	1000pF 50V	1	
	C5401	F1G1E1040001	0.1uF 25V	1	
	C5402	F1H1H104A913	0.1uF 50V	1	
	C5403	F1H1H104A913	0.1uF 50V	1	
	C5404	F1G1E1040001	0.1uF 25V	1	
	C5405	F1G1E1040001	0.1uF 25V	1	
	C5406	F1J1V1050001	2.2uF 10V	1	
	C5408	F1H1H104A913	0.1uF 50V	1	
	C5409	F1H1H102A219	1000pF 50V	1	
	C5411	F1H1H221A792	220pF 50V	1	
	C5412	F1H1H104A913	0.1uF 50V	1	
	C5413	F1H1H101A230	100pF 50V	1	
	C5414	F1H1H102A219	1000pF 50V	1	
	C5415	F1H1H221A792	220pF 50V	1	
	C5416	F2A1V4710074	470uF 35V	1	
	C5417	ECQV1H105JL3	1uF 50V	1	
	C5423	F1H1H102A219	1000pF 50V	1	
	C5424	F1H1H102A219	1000pF 50V	1	
⚠	C5700	F1BAF1020020	1000pF	1	
⚠	C5701	F0CAF104A105	0.1uF	1	
⚠	C5702	F0CAF104A105	0.1uF	1	
⚠	C5703	F0CAF104A105	0.1uF	1	
⚠	C5704	F1BAF471A013	470pF	1	
⚠	C5705	F1BAF471A013	470pF	1	
	C5712	F2B2D1810007	180uF 200V	1	
	C5713	F0C2J1030007	0.01uF 630V	1	
	C5720	F1H1H101A230	100pF 50V	1	
	C5722	F1H1H102A219	1000pF 50V	1	
	C5724	F1H1H221A792	220pF 50V	1	
	C5726	F2A1H100A214	10uF 50V	1	
	C5727	F2A1H1010115	100uF 50V	1	
	C5730	F1J1E4750002	4.7uF 25V	1	
	C5747	F1B3D561A011	560pF 2000V	1	
	C5760	F1H1H104A913	0.1uF 50V	1	
	C5761	F1H1H104A913	0.1uF 50V	1	
	C5762	F1H1H104A913	0.1uF 50V	1	
	C5800	F1J2E1030004	0.01uF 250V	1	
	C5801	F1H1H104A913	0.1uF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C5802	F1J1C106A059	10uF 16V	1	
	C5803	F1H1H104A913	0.1uF 50V	1	
	C5804	F1H1E105A116	1uF 25V	1	
	C5805	F1H1H102A219	1000pF 50V	1	
	C5805	F2A1V4710074	470uF 35V	1	
	C5808	F2A1V4710074	470uF 35V	1	
	C5814	F2A1A3320054	3300uF 10V	1	
	C5815	F1J1H2240017	0.22uF 50V	1	
	C5817	F1H1H682A219	6800pF 50V	1	
	C5818	F1H1H104A913	0.1uF 50V	1	
	C5819	F1H1H560A230	56pF 50V	1	
	C5820	F1H1H560A230	56pF 50V	1	
	C5821	F1G1E1030005	0.01uF 25V	1	
	C5822	F1G1E1030005	0.01uF 25V	1	
	C5828	F2A1A4710079	470uF 10V	1	
	C5862	F1H1H104A913	0.1uF 50V	1	
	C5863	F1H0J106A009	10uF 6.3V	1	
	C5869	F1H1H103A238	0.01uF 50V	1	
	C5870	F1H0J105A051	1uF 6.3V	1	
	C6001	F1H1H104A913	0.1uF 50V	1	
	C6002	F1J1A4750002	4.7uF 10V	1	
	C6008	F1J1A4750002	4.7uF 10V	1	
	C6010	F1H1H101A230	100pF 50V	1	

19.2.2. Active Subwoofer (SB-HWA370)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			PRINTED CIR-CUITS BOARDS		
	PCB1	REP4869AA	SW DAMP P.C.B.	1	(RTL)
	PCB2	REP4869AB	SW POWER BUTTON P.C.B.	1	(RTL)
	PCB3	REP4869AC	SW LED P.C.B.	1	(RTL)
⚠	PCB4	REP4860K	SW SMPS P.C.B.	1	(RTL)
⚠	PCB5	REP4860K	SW AC INLET P.C.B.	1	(RTL)
	PCB6	REP4936A	DIGITAL RECEIVER MODULE P.C.B.	1	(RTL)
			INTEGRATED CIR-CUITS		
	IC3002	C0ABBB000244	IC	1	(E.S.D)
	IC5200	C1BA00000497	IC	1	(E.S.D)
	IC5201	C0FBBY000124	IC	1	(E.S.D)
	IC5202	C0JBAS000223	IC	1	(E.S.D)
	IC5203	C0CBADG00023	IC	1	(E.S.D)
	IC5701	C0DABYY00035	IC	1	(E.S.D)
	IC5801	C0DAAYY00072	IC	1	(E.S.D)
	IC5822	C0EBY0000829	IC	1	(E.S.D)
			TRANSISTORS		
	Q1003	B1ACKD000006	TRANSISTOR	1	(E.S.D)
	Q1004	B1ADCE000012	TRANSISTOR	1	(E.S.D)
	Q1005	B1GBCFJJ0051	TRANSISTOR	1	(E.S.D)
	Q1006	B1GBCFGG0030	TRANSISTOR	1	(E.S.D)
	Q1007	B1ABCF000176	TRANSISTOR	1	(E.S.D)
	Q1008	B1ABCF000176	TRANSISTOR	1	(E.S.D)
	Q1009	B1GBCFJJ0051	TRANSISTOR	1	(E.S.D)
	Q2002	B1AAKD000012	TRANSISTOR	1	(E.S.D)
	Q2010	B1ACCF000093	TRANSISTOR	1	(E.S.D)
	Q2011	B1ACKD000006	TRANSISTOR	1	(E.S.D)
	Q5602	B1ADCE000012	TRANSISTOR	1	(E.S.D)
	Q5720	B1BABG000007	TRANSISTOR	1	(E.S.D)
	Q5760	B1ADCF000001	TRANSISTOR	1	(E.S.D)
	Q5761	B1ABCF000011	TRANSISTOR	1	(E.S.D)
	Q5865	B1ADCF000001	TRANSISTOR	1	(E.S.D)
	Q5866	B1ABCF000176	TRANSISTOR	1	(E.S.D)
	QR2012	B1GBCFGG0030	TRANSISTOR	1	(E.S.D)
	QR2013	B1GBCFJJ0051	TRANSISTOR	1	(E.S.D)
	QR5762	B1GBCFJJ0048	TRANSISTOR	1	(E.S.D)
	QR5823	B1GDCFJJ0008	TRANSISTOR	1	(E.S.D)
	QR5824	B1GBCFJJ0048	TRANSISTOR	1	(E.S.D)
	QR5867	B1GBCFJJ0051	TRANSISTOR	1	(E.S.D)
			DIODES		
	D2000	B0BC01600013	DIODE	1	(E.S.D)
	D4001	B3AGA0000140	DIODE	1	
	D5701	B0EBNR000051	DIODE	1	(E.S.D)
	D5702	B0EAKT000063	DIODE	1	(E.S.D)
	D5704	DZ2J200M0L	DIODE	1	(E.S.D)
	D5705	DZ2J200M0L	DIODE	1	(E.S.D)
	D5706	DA2J10100L	DIODE	1	(E.S.D)
	D5707	DA2J10100L	DIODE	1	(E.S.D)
	D5710	DA2J10100L	DIODE	1	(E.S.D)
	D5712	B0EAMM000057	DIODE	1	(E.S.D)
	D5713	DZ2J330M0L	DIODE	1	(E.S.D)
	D5760	B0ACCK000005	DIODE	1	(E.S.D)
	D5760	DA2J10100L	DIODE	1	(E.S.D)
	D5761	B0ACCK000005	DIODE	1	(E.S.D)
	D5762	B0ACCK000005	DIODE	1	(E.S.D)
	D5801	B0ABSM000008	DIODE	1	(E.S.D)
	D5802	B0ABSM000008	DIODE	1	(E.S.D)
	D5803	B0EAMM000057	DIODE	1	(E.S.D)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	D5823	DZ2J033M0L	DIODE	1	(E.S.D)
			VARISTOR		
⚠	DZ5701	ERZV10V511CS	ZNR	1	
			SWITCHES		
	S1000	EVQ21405R	SW I/D SET	1	
	S1001	K0F122B00107	SW POWER	1	
			CONNECTORS		
	CN1	K1KA10AA0194	10P CONNECTOR	1	
	CN1000	K1MN24AA0004	24P CONNECTOR	1	
	CN1002	K1KA04BA0061	4P CONNECTOR	1	
	CN1003	K1KA03AA0193	3P CONNECTOR	1	
	CN1005	K1KA02AA0186	2P CONNECTOR	1	
	CN4000	K1KA03BA0061	3P CONNECTOR	1	
			COILS AND INDUC-TORS		
	L1000	G0A150L00003	CHOKE COIL	1	
⚠	L5702	G0B922G00004	LINE FILTER	1	
⚠	L5703	G0B922G00004	LINE FILTER	1	
	LB1003	J0JKB0000020	INDUCTOR	1	
	LB1004	J0JKB0000020	INDUCTOR	1	
			TERMINALS		
	Z1001	K4CZ01000027	TERMINAL	1	
	Z1002	K4CZ01000027	TERMINAL	1	
	Z1003	K4CZ01000027	TERMINAL	1	
	ZJ5701	K4CZ01000027	TERMINAL	1	
	ZJ5703	K4CZ01000027	TERMINAL	1	
			TRANSFORMER		
⚠	T5701	G4DYA0000441	TRANSFORMER	1	
			PHOTO COUPLERS		
⚠	PC5720	B3PBA0000579	PHOTO COUPLER	1	
⚠	PC5760	B3PBA0000579	PHOTO COUPLER	1	
			FUSE		
⚠	F1	K5G312Y00007	FUSE	1	
			CABLE HOLDER		
	H1001	K1YZ10000001	10P CABLE HOLDER	1	
			THERMISTORS		
⚠	TH5702	D4CAA2R20001	THERMISTOR	1	
⚠	TH5860	D4CC11040013	THERMISTOR	1	
			JACK		
⚠	P5701	K2AB2B000007	AC INLET	1	
			CHIP JUMPERS		
	C1015	D0GBR00J0004	0 1/10W	1	
	C1016	D0GBR00J0004	0 1/10W	1	
	K5722	D0GBR00JA008	0 1/10W	1	
	K5806	D0GBR00JA008	0 1/10W	1	
	L1005	D0GBR00J0004	0 1/10W	1	
	L1006	D0GBR00J0004	0 1/10W	1	
	W4	D0GDR00JA017	0 1/8W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	W12	D0GDR00JA017	0 1/8W	1	
	W1001	D0GDR00JA017	0 1/8W	1	
	W1002	D0GBR00JA008	0 1/10W	1	
	W1003	D0GBR00JA008	0 1/10W	1	
	W1004	D0GDR00JA017	0 1/8W	1	
	W1005	D0GDR00JA017	0 1/8W	1	
	W1006	D0GBR00JA008	0 1/10W	1	
	W1007	D0GBR00JA008	0 1/10W	1	
			RESISTORS		
	R1007	D0GB103JA065	10K 1/10W	1	
	R1008	D0GB103JA065	10K 1/10W	1	
	R1009	D0GB472JA065	4.7K 1/10W	1	
	R1010	D0GBR00J0004	0 1/10W	1	
	R1011	D0GB822JA065	8.2K 1/10W	1	
	R1013	D0GB104JA065	100K 1/10W	1	
	R1014	D0GB823JA065	82K 1/10W	1	
	R1015	D0GB333JA007	33K 1/10W	1	
	R1016	D0GB154JA065	150K 1/10W	1	
	R1017	D0GBR00J0004	0 1/10W	1	
	R1020	D0GB102JA065	1K 1/10W	1	
	R1107	ERJ1TYJ220U	22 1W	1	
	R1108	D0GB562JA065	5.6K 1/10W	1	
	R1207	ERJ1TYJ220U	22 1W	1	
	R1208	D0GB562JA065	5.6K 1/10W	1	
	R2000	D0GB220JA008	22 1/10W	1	
	R2004	D0GB333JA065	33K 1/10W	1	
	R2005	D0GB270JA007	27 1/10W	1	
	R2006	D0GB103JA065	10K 1/10W	1	
	R2010	D0GB220JA008	22 1/10W	1	
	R2012	D0GB333JA065	33K 1/10W	1	
	R2013	D0GB822JA008	8.2K 1/10W	1	
	R2014	D0GB561JA007	560 1/10W	1	
	R3107	D0GB682JA065	6.8K 1/10W	1	
	R3108	D0GB682JA065	6.8K 1/10W	1	
	R3111	D0GBR00J0004	0 1/10W	1	
	R3204	D0GB103JA065	10K 1/10W	1	
	R3206	D0GB103JA065	10K 1/10W	1	
	R3213	D0GBR00J0004	0 1/10W	1	
	R4001	D0GB101JA065	100 1/10W	1	
	R4004	D0GB101JA065	100 1/10W	1	
	R5200	D0GF100JA048	10 1/4W	1	
	R5201	D0GF100JA048	10 1/4W	1	
	R5204	D0GBR00J0004	0 1/10W	1	
	R5205	D0GB562JA065	5.6K 1/10W	1	
	R5206	D0GB562JA065	5.6K 1/10W	1	
	R5207	D0GB562JA065	5.6K 1/10W	1	
	R5208	D0GB562JA065	5.6K 1/10W	1	
	R5210	D0GF100JA048	10 1/4W	1	
	R5211	D0GF100JA048	10 1/4W	1	
⚠	R5700	ERJ8GEYJ155V	1.5M 1/4W	1	
⚠	R5701	ERJ8GEYJ155V	1.5M 1/4W	1	
	R5702	ERJ1TYJ333U	33K 1W	1	
	R5703	ERJ1TYJ333U	33K 1W	1	
⚠	R5710	ERJ8GEYJ155V	1.5M 1/4W	1	
	R5720	ERJ6GEYJ3R3V	3.3 1/8W	1	
	R5721	D0GD222JA017	2.2K 1/8W	1	
	R5722	D0GB562JA008	5.6K 1/10W	1	
	R5727	ERX2SZJR13P	0.13 2W	1	
	R5731	D0GBR00JA008	0 1/10W	1	
	R5732	D0GB471JA008	470 1/10W	1	
	R5733	D0GB273JA008	27K 1/10W	1	
	R5762	D0GB103JA008	10K 1/10W	1	
	R5763	D0GB103JA008	10K 1/10W	1	
	R5764	D0GB472JA008	4.7K 1/10W	1	
	R5766	D0GB333JA008	33K 1/10W	1	
	R5767	D0GB223JA008	22K 1/10W	1	
	R5768	D0GB273JA008	27K 1/10W	1	
	R5769	D0GB122JA065	1.2K 1/10W	1	
	R5770	D0GB103JA065	10K 1/10W	1	
	R5773	D0GB103JA065	10K 1/10W	1	
	R5774	D0GB103JA065	10K 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R5775	D0GB103JA065	10K 1/10W	1	
	R5776	D0GBR00J0004	0 1/10W	1	
	R5777	D0GBR00J0004	0 1/10W	1	
	R5778	D0GBR00J0004	0 1/10W	1	
	R5779	D0GBR00J0004	0 1/10W	1	
	R5781	D0GB103JA065	10K 1/10W	1	
	R5782	D0GBR00J0004	0 1/10W	1	
	R5786	D0GB472JA065	4.7K 1/10W	1	
	R5787	D0GB102JA065	1K 1/10W	1	
	R5801	D0GDR00JA017	0 1/8W	1	
	R5802	ERJ3RBD563V	56K 1/16W	1	
	R5804	ERJ3RBD104V	100K 1/16W	1	
	R5805	ERJ3RBD103V	10K 1/16W	1	
	R5806	D0GB103JA008	10K 1/10W	1	
	R5808	D0GB472JA008	4.7K 1/10W	1	
	R5810	D0GB221JA007	220 1/10W	1	
	R5811	D0GD152JA017	1.5K 1/8W	1	
	R5814	D0GB102JA008	1K 1/10W	1	
	R5817	D0GB151JA008	150 1/10W	1	
	R5823	D0GF121JA048	120 1/4W	1	
	R5824	D0GF121JA048	120 1/4W	1	
	R5833	D0GB101JA008	100 1/10W	1	
	R5855	ERJ3RBD103V	10K 1/16W	1	
	R5856	ERJ3RBD103V	10K 1/16W	1	
	R5857	D0GD103JA017	10K 1/8W	1	
	R5858	D0HB822ZA002	8.2K 1/16W	1	
	R5859	D0GD103JA017	10K 1/8W	1	
	R5863	D0GBR00JA008	0 1/10W	1	
	R5867	D0GB102JA008	1K 1/10W	1	
	R5870	D0GDR00JA017	0 1/8W	1	
			CAPACITORS		
	C1002	F1H1H104A013	0.1uF 50V	1	
	C1004	F2A1E1020114	1000uF 25V	1	
	C1005	F1H1H104A013	0.1uF 50V	1	
	C1006	F1H1H104A013	0.1uF 50V	1	
	C1007	F1H1H104A013	0.1uF 50V	1	
	C1009	F2A0J681A550	680uF 6.3V	1	
	C1011	F2A1E1020114	1000uF 25V	1	
	C1014	F2A0J101A245	100uF 6.3V	1	
	C1116	ECQV1H684JL3	0.68uF 50V	1	
	C1117	F1H1H104A013	0.1uF 50V	1	
	C1118	F1H1H104A013	0.1uF 50V	1	
	C1216	ECQV1H684JL3	0.68uF 50V	1	
	C1217	F1H1H104A013	0.1uF 50V	1	
	C1218	F1H1H104A013	0.1uF 50V	1	
	C2000	F1H1H104A013	0.1uF 50V	1	
	C2006	F1H1H104A013	0.1uF 50V	1	
	C2007	F2A1E101A205	100uF 25V	1	
	C2008	F2A1E101A205	100uF 25V	1	
	C2011	F1H1H104A013	0.1uF 50V	1	
	C2015	F1H1H104A013	0.1uF 50V	1	
	C3105	F1H1H683A783	0.068uF 50V	1	
	C3106	F1H1H101A230	100pF 50V	1	
	C5200	F1H1H104A013	0.1uF 50V	1	
	C5201	F1H1H153A219	0.015uF 50V	1	
	C5202	F1H1C224A068	0.22uF 16V	1	
	C5203	F1J2A221A030	220pF 100V	1	
	C5204	F1H1H153A219	0.015uF 50V	1	
	C5205	F1J2A221A030	220pF 100V	1	
	C5206	F1H1H104A013	0.1uF 50V	1	
	C5207	F1H1H104A013	0.1uF 50V	1	
	C5208	F1H1H104A013	0.1uF 50V	1	
	C5209	F1H1H104A013	0.1uF 50V	1	
	C5210	F1K2A1040007	0.1uF 100V	1	
	C5211	F1J2A221A030	220pF 100V	1	
	C5212	F1H1H221A792	220pF 50V	1	
	C5213	F1H1H104A013	0.1uF 50V	1	
	C5214	F1H1H104A013	0.1uF 50V	1	
	C5215	F1K2A1040007	0.1uF 100V	1	
	C5216	F1H1H331A219	330pF 50V	1	
	C5218	F1J2A221A030	220pF 100V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C5219	F1K2A1040007	0.1uF 100V	1	
	C5220	F1H1H104A013	0.1uF 50V	1	
	C5221	F1H1H102A219	1000pF 50V	1	
	C5222	F1H1A474A025	0.47uF 10V	1	
	C5223	F1H1A474A025	0.47uF 10V	1	
	C5224	F1H1H331A219	330pF 50V	1	
	C5231	F1H1H102A219	1000pF 50V	1	
	C5232	F1H1A474A025	0.47uF 10V	1	
	C5233	F1H1A474A025	0.47uF 10V	1	
	C5234	F1H1H102A219	1000pF 50V	1	
	C5240	F2A1J470A050	47uF 63V	1	
	C5522	F1H1H104A013	0.1uF 50V	1	
	C5523	F1H1H104A013	0.1uF 50V	1	
	C5602	F2A1H1R0A013	1.0uF 50V	1	
	C5603	F1H1H104A013	0.1uF 50V	1	
	C5605	F1H1H104A013	0.1uF 50V	1	
	C5606	F1H1H104A013	0.1uF 50V	1	
	C5607	F1H1H104A013	0.1uF 50V	1	
	C5608	F1H1H104A013	0.1uF 50V	1	
	C5609	F1H1H104A013	0.1uF 50V	1	
	C5610	F1H1H104A013	0.1uF 50V	1	
	C5611	F1H1H104A013	0.1uF 50V	1	
	C5612	F1H1H104A013	0.1uF 50V	1	
	C5613	F1H1H104A013	0.1uF 50V	1	
	C5615	F1H1H103A219	0.01uF 50V	1	
	C5616	F1H1H223A219	0.022uF 50V	1	
	C5617	F1H1H104A013	0.1uF 50V	1	
	C5619	F1H1H104A013	0.1uF 50V	1	
	C5620	F1J1A106A043	10uF 10V	1	
	C5621	F2A1A220A649	22uF 10V	1	
	C5622	F2A1A220A649	22uF 10V	1	
	C5624	F1H1H104A013	0.1uF 50V	1	
	C5627	F1H1E334A068	0.33uF 25V	1	
	C5629	F2A1A220A649	22uF 10V	1	
⚠	C5700	F1BAF1020020	1000pF	1	
⚠	C5701	F0CAF104A105	0.1uF	1	
⚠	C5702	F0CAF104A105	0.1uF	1	
⚠	C5703	F0CAF104A105	0.1uF	1	
⚠	C5704	F1BAF471A013	470pF	1	
⚠	C5705	F1BAF471A013	470pF	1	
	C5712	F2B2D1810007	180uF 200V	1	
	C5713	F0C2J1030007	0.01uF 630V	1	
	C5720	F1H1H101A230	100pF 50V	1	
	C5722	F1H1H102A219	1000pF 50V	1	
	C5724	F1H1H221A792	220pF 50V	1	
	C5726	F2A1H100A214	10uF 50V	1	
	C5727	F2A1H1010115	100uF 50V	1	
	C5730	F1J1E4750002	4.7uF 25V	1	
	C5747	F1B3D561A011	560pF 2000V	1	
	C5760	F1H1H104A913	0.1uF 50V	1	
	C5761	F1H1H104A913	0.1uF 50V	1	
	C5762	F1H1H104A913	0.1uF 50V	1	
	C5800	F1J2E1030004	0.01uF 250V	1	
	C5801	F2A1V4710074	470uF 35V	1	
	C5802	F2A1V4710074	470uF 35V	1	
	C5805	F2A1V4710074	470uF 35V	1	
	C5808	F2A1V4710074	470uF 35V	1	
	C5814	F2A1A3320054	3300uF 10V	1	
	C5817	F1H1H682A219	6800pF 50V	1	
	C5818	F1H1H104A913	0.1uF 50V	1	
	C5819	F1H1H560A230	56pF 50V	1	
	C5820	F1H1H560A230	56pF 50V	1	
	C5862	F1H1H104A913	0.1uF 50V	1	
	C5863	F1H0J106A009	10uF 6.3V	1	
			SERVICE FIXTURE & TOOLS		
	SFT1	REXX1194	2P WIRE (SPK - SW DAMP)	1	

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