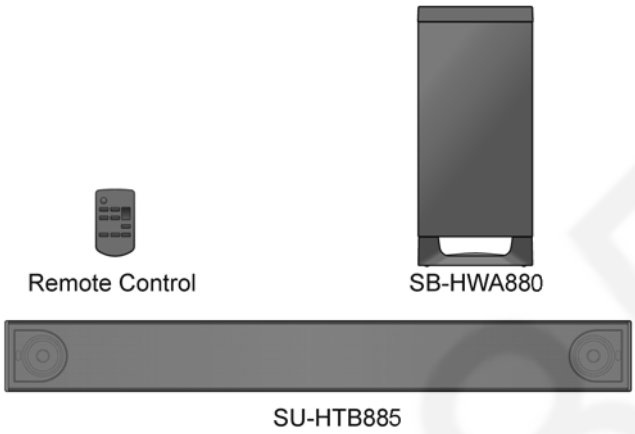
PSG1503004CE

Service Manual

Home Theater Audio System

Model No. SU-HTB885EB
SU-HTB885EG
SB-HWA880EB
SB-HWA880EG
SC-HTB885EB
SC-HTB885EG

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.

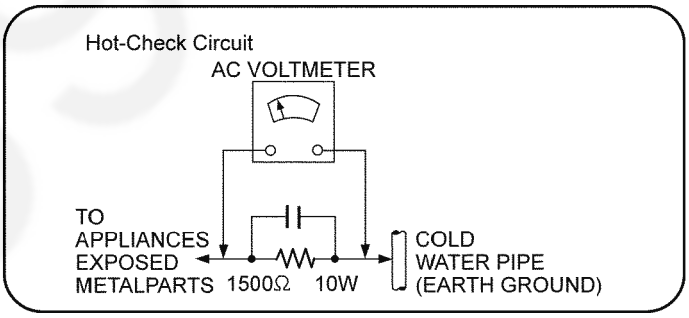


Figure 1-1

1.2. Caution for AC Cord (For EB only)

(For the AC mains plug of three pins)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

Before use

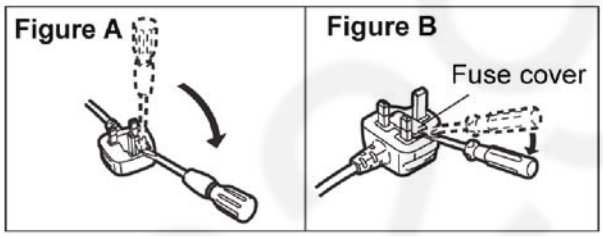
Remove the connector cover.

How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.



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

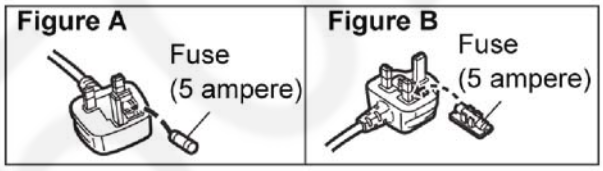


Figure 1-2

1.3. Before Repair and Adjustment

1.3.1. Main Unit (SU-HTB885)

Disconnect AC power, discharge 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 220 V ~ 240 V, 50 Hz during power on at no signal with volume minimum, should be ~200 mA.

1.3.2. Active Subwoofer (SB-HWA880)

Disconnect AC power, discharge 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 220 V ~ 240 V, 50 Hz during power on at link with volume minimum, (Selector : BD/DVD mode) should be ~200 mA.

1.4. Protection Circuitry

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

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

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

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

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

1.5. Caution For Fuse Replacement

CAUTION:

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

1.6. Safety Part Information

Safety Parts List:

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

These parts are marked by ⚠ 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.

1.6.1. Main Unit (SU-HTB885)

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
⚠	14	RGN3520-K	NAME PLATE	
⚠	PCB2	REP5073C	SMPS P.C.B.	(RTL)
⚠	DZ5701	ERZV10V511CS	ZNR	(E.S.D)
⚠	T5701	G4DYA0000573	SWITCHING TRANSFORMER	
⚠	PC5720	B3PBA0000579	PHOTO COUPLER	
⚠	PC5760	B3PBA0000579	PHOTO COUPLER	
⚠	F1	K5G312Y00007	FUSE	
⚠	P5701	K2AA2B000011	AC INLET	
⚠	C5701	F0CAF104A105	0.1uF	
⚠	C5702	F0CAF104A105	0.1uF	
⚠	C5703	F0CAF104A105	0.1uF	
⚠	C5704	F1BAF471A013	470pF	
⚠	C5705	F1BAF471A013	470pF	

1.6.2. Active Subwoofer (SB-HWA880)

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
⚠	65	RGN3442-K	SPEC LABEL	
⚠	75	REX1703	1P RED WIRE (SMPS - SW AC INLET)	
⚠	77	REX1704	1P BLACK WIRE (SMPS - SW AC INLET)	
⚠	PCB1	REP5036CA	SW SMPS & SW AC INLET P.C.B.	(RTL)
⚠	DZ5701	ERZV10V511CS	ZNR	
⚠	L5702	G0B203G00005	LINE FILTER	
⚠	L5703	G0B203G00005	INDUCTOR	
⚠	T5701	G4DYA0000485	TRANSFORMER	
⚠	T5751	G4DYA0000592	TRANSFORMER	
⚠	PC5701	B3PBA0000579	PHOTO COUPLER	
⚠	PC5720	B3PBA0000579	PHOTO COUPLER	
⚠	PC5799	B3PBA0000579	PHOTO COUPLER	
⚠	F1	K5G312Y00007	FUSE	
⚠	P5701	K2AA2B000011	AC INLET	
⚠	R5700	ERJ8GEYJ105V	1M 1/4W	
⚠	R5701	ERJ8GEYJ105V	1M 1/4W	
⚠	R5710	ERJ8GEYJ105V	1M 1/4W	
⚠	C5700	F1BAF1020020	1000pF	
⚠	C5701	F0CAF104A105	0.1uF	
⚠	C5702	F0CAF104A105	0.1uF	
⚠	C5703	F0CAF104A105	0.1uF	
⚠	C5704	F1BAF471A013	470pF	
⚠	C5705	F1BAF471A013	470pF	
⚠	C5706	F1BAF1020020	1000pF	

1.6.3. System (SC-HTB885)

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
⚠	A2	K2CQ2YY00119	AC CORD	EG
⚠	A2	K2CT2YY00097	AC CORD	EB
⚠	A3	RQT0A01-B	O/I BOOK (En)	EB
⚠	A3	RQT0A02-D	O/I BOOK (Ge/Fr/It)	EG
⚠	A3	RQT0A03-E	O/I BOOK (Sw/Da/Du)	EG
⚠	A3	RQT0A15-R	O/I BOOK (Ru/Ur)	EG

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.

4 Specifications

■ Amplifier Section

RMS output power: Dolby Digital Mode

Front ch (L, R ch)	50 W per channel (6 Ω), 1 kHz, 10% THD
Center ch (C ch)	50 W per channel (6 Ω), 1 kHz, 10% THD
Surround ch (L, R ch)	50 W per channel (6 Ω), 1 kHz, 10% THD
Subwoofer ch	250 W per channel (8 Ω), 100 Hz, 10% THD
Total RMS Dolby Digital mode power	500 W

■ Terminal Section

HDAVI Control	This unit supports “HDAVI Control 5” function.
HDMI AV input (BD/DVD, AUX)	2
Input connector	Type A (19 pin)
HDMI AV output (TV (ARC))	1
Output connector	Type A (19 pin)
Digital audio input (TV)	
Optical digital input	Optical terminal
Sampling frequency	32 kHz, 44.1 kHz, 48 kHz 88.2 kHz, 96 kHz (only LPCM)
Audio format	LPCM, Dolby Digital, DTS Digital Surround™
IR Blaster	
Terminal Type	3.5 mm jack
USB Port	For service use only.

■ General

Power consumption	Main Unit: 33 W Active subwoofer: 46 W
In standby condition	
Main Unit[*1]	
	(When “BLUETOOTH STANDBY” is “OFF”) : Approx. 0.49 W
	(When “BLUETOOTH STANDBY” is “ON”) : Approx. 3.0 W
Active subwoofer	
	Power switch off : Approx. 0.2 W
	The wireless link is not activated : Approx. 0.4 W
Power supply	AC 220 V to 240 V, 50 Hz
Dimensions (W x H x D)	
Main Unit	
For table top layout	1125 mm x 51 mm x 121 mm
For wall mounting layout	1125 mm x 122.5 mm x 56.5 mm
Active subwoofer	180 mm x 408 mm x 306 mm
Mass	
Main Unit	
For table top layout	Approx. 3.1 kg
For wall mounting layout	Approx. 3.2 kg
Active subwoofer	5.4 kg
Operating temperature range	0°C to +40°C
Operating humidity range	20% to 80 % RH (no condensation)

■ Speaker Section

Front speakers (Build-in)	
Woofer	6.5 cm cone type x 1/ch
Tweeter	2.5 cm Semi-Dome type x 1/ch
Center speaker (Build-in)	
Full range	6.5 cm cone type x 1
Surround speakers (Built-in)	
Full range	6.5 cm cone type x 1/ch
Active subwoofer	
Woofer	16 cm cone type x 1

■ Wireless section

Wireless module	
Frequency Range	2.40335 GHz to 2.47735 GHz
No. of channels	38

■ Bluetooth® Section

Bluetooth® system specification	Bluetooth® Ver.3.0
Wireless equipment classification	Class 2
Supported profiles	A2DP
Operating frequency	2.4 GHz band FH-SS
Operating distance	10 m Line of Sight
Supported codec	aptX®, AAC, SBC

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

[*1] : When the other connected devices are turned off

■ System: SC-HTB885EBK

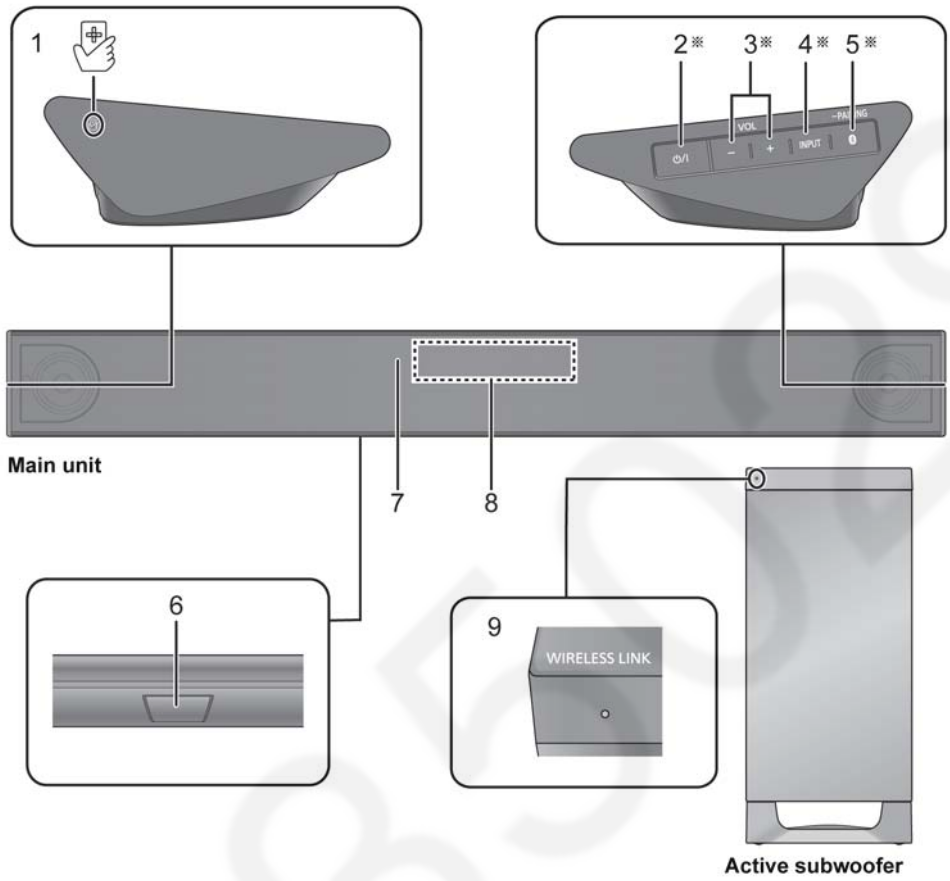
MAIN SPEAKER UNIT : SU-HTB885EBK
ACTIVE SUBWOOFER : SB-HWA880EBK

■ System: SC-HTB885EGK

MAIN SPEAKER UNIT : SU-HTB885EGK
ACTIVE SUBWOOFER : SB-HWA880EGK

5 Location of Controls and Components

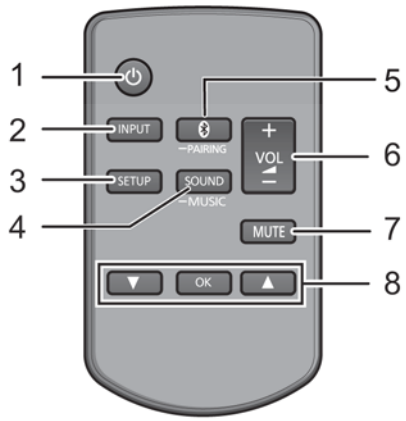
5.1. Main Unit & Active Subwoofer Key Button Operations



1 NFC touch area
2 **Standby/on switch (⏻/I)**
Touch 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.
3 Adjust the volume of this system
4 Select the input source
"TV" ⟶ "BD/DVD" ⟶ "AUX"
↑—"BLUETOOTH"←—┘
5 Select the Bluetooth® device as the source
6 Remote control signal sensor for table top layout
7 Remote control signal sensor for wall mounting layout
8 Display
9 WIRELESS LINK indicator

※ These switches work just by touching the marks. Each time you touch the switch, there will be a beep sound.

5.2. Remote Control Key Button Operations

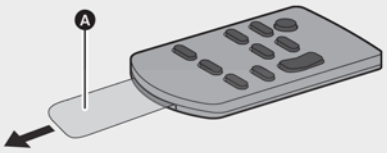


1 Turn the main unit on or off
2 Select the input source
"TV" ⟶ "BD/DVD" ⟶ "AUX"
↑—"BLUETOOTH"←—┘
3 Select the setup menu
4 Select the sound menu
5 Select the Bluetooth® device as the source

6 Adjust the volume of this system
7 Mute the sound
8 Select and confirm the option

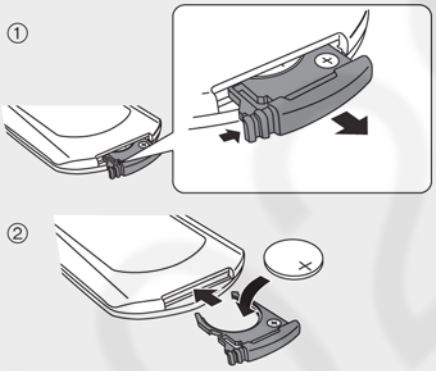
■ Before using for the first time

Remove the insulation sheet Ⓐ.



■ To replace a button-type battery

Battery type: CR2025 (Lithium battery)



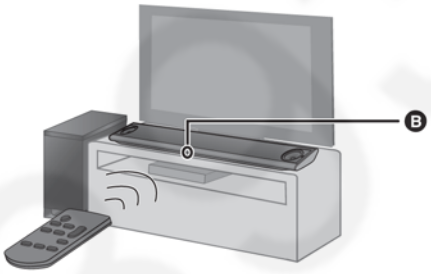
- Set the button-type battery with its (+) mark facing upward.

■ About remote control signal sensor

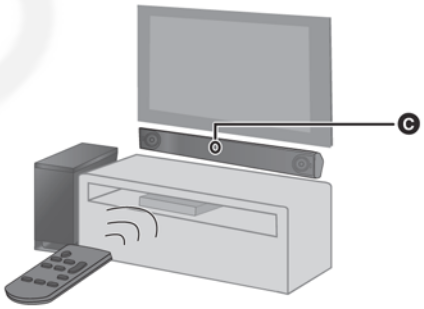
The remote control signal sensor is located on the main unit.

- Use the remote control within the correct operation range.
  Distance: Within approx. 7 m directly in front
  Angle: Approx. 30° left and right

For table top layout



For wall mounting layout

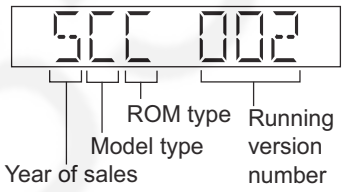


Ⓑ Remote control signal sensor for table top layout
Ⓒ Remote control signal sensor for wall mounting layout

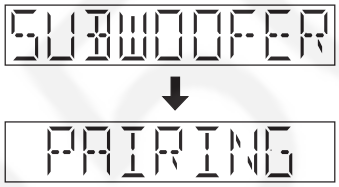
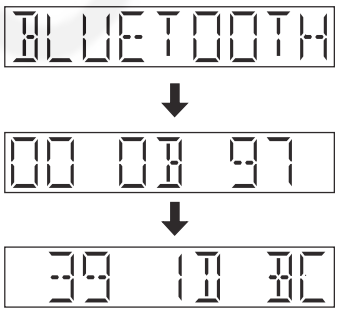
6 Service Mode

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

6.1. Service Mode Table 1

Item		FL display	Key operation
Mode name	**Description**		
Service Mode	Upon entering into Service Mode Error History Display by pressing button, it goes back its history list.	Example: 	Pressing and hold [VOL-] on main unit then press [▼] follow by [▲] using the remote control. • To exit, press the [⏻/I] on the main unit or using the remote control. • Unplug the AC cord.
Error code information	Error History Display by pressing button, it goes back its history list. After Pressing [INPUT] key, display the last encounter Error display, subsequent pressed will displayed the second last Error and so on. (Maximun of 10 display and if the 11th Error occurred, it will replace the 1st error display, First IN First OUT approach) Refer to 6.6 for more information	Example: F61, F76,F70HDMI  Example: If already at the last error display (earlier error) or No Error Log, pressing [INPUT] key on the remote control, [NO ERROR] will display  The [SVC MODE] display will appear after 3s, 	In service mode: Press [INPUT] button on the remote control. • To exit, press the [⏻/I] on the main unit or using the remote control.
Software Version information	Display the current SW version Software Version display is being indicated in FL display in the format of [5CC XXX]. 1) 5 represent the Sales Year 2) C represent the Model Type 3) B represent the ROM Type 4) xxx represent the Version number (Range from 000-999) Refer to 6.3 for more information	Example:  The [SVC MODE] display will appear after 3s, 	In service mode: Press [VOL+] button 1 time on the remote control. • To exit, press the [⏻/I] on the main unit or using the remote control.
HDMI Version information	Display the HDMI Version number HDMI Version display is being indicated in FL display in the format of [HDMI XXXX]. Refer to 6.4 for more information	Example:  The [SVC MODE] display will appear after 3s, 	Press [VOL+] button 2 times on the remote control. • To exit, press the [⏻/I] on the main unit or using the remote control.
Bluetooth Version information	Display the Bluetooth Version number Bluetooth Version display is being indicated in FL display in the format of [BT XXX]. Refer to 6.5 for more information	Example:  The [SVC MODE] display will appear after 3s, 	Press [VOL+] button 3 times on the remote control. • To exit, press the [⏻/I] on the main unit or using the remote control.

6.2. Service Mode Table 2

Item		FL display	Key operation
Mode name	**Description**		
Model Name information	Display the model name MODEL: HTB XXX (XXX stand for model number, Eg : 885) Refer to 6.6 for more information	Example:  The [SVC MODE] display will appear after 3s,  	Press [VOL+] button 4 times on the remote control. • To exit, press the [⏻/I] on the main unit or using the remote control.
Region information	Region Setting Refer to 6.7 for more information	Example:  The [SVC MODE] display will appear after 3s,  	Press [VOL+] button 5 times on the remote control. • To exit, press the [⏻/I] on the main unit or using the remote control.
Wireless Subwoofer Pairing	Pairing Setting Actual Display during Subwoofer Pairing [SUBWOOFER] <-> [PAIRING] (Toggle display) Actual Display after Subwoofer had been Paired [PAIRED]	Example: During Pairing  Example: Paired  	Press [SETUP] button on the remote control. **or** Press and hold [INPUT] button on the remote control. follow by Press [VOL +] button on the main set for 4seconds.
Bluetooth information	Bluetooth Setting Display 1st 6 byte of Bluetooth Module MAC ADDRESS for 4 sec and followed by last 6 th byte (XX XX XX = 1st 6byte of mac ID) - LEFT aligned Display Last 6 byte of Bluetooth Module MAC ADDRESS for 4 sec before return to display of 1st 6 byte (YY YY YY = last 6byte of mac ID) - RIGHT aligned	Example:  	Press [BLUETOOTH] button on the remote control.

6.3. Software Version Check

Some example of the actual FL display can be found in below table

Examples:	FL Display Position								
	POS 9	POS 8	POS 7	POS 6	POS 5	POS 4	POS 3	POS 2	POS 1
HTB885 with software version 03 for year 2015 (ROM TYPE A)		5	C	A		0	0	3	
HTB485 with software version 03 for Year 2015 (ROM TYPE B)		5	C	B		0	0	3	

① ② ③ ④

① **Sales Year**

1	2011
2	2012
3	2013
4	2014
5	2015

② **Model Type**

A	HC
B	XH
C	HTB
D	HTE
E	HTF
F	HTR
G	HTX
H	PM
I	PMX
J	AKX
K	VKX
L	
M	

③ **ROM Type**

HTB885	HTB485
5CA	5CB

④ **Running Version Number**

XXX	Range from 000 ~999

6.4. HDMI Version Display Table

HDMI Version Display	FL Display Position								
	POS 9	POS 8	POS 7	POS 6	POS 5	POS 4	POS 3	POS 2	POS 1
	H	D	M	I		0	0	2	2

6.5. Bluetooth Version Display Table

Bluetooth Version Display	FL Display Position								
	POS 9	POS 8	POS 7	POS 6	POS 5	POS 4	POS 3	POS 2	POS 1
		B	T				0	1	9

6.6. Model Name Display Table

Examples:	FL Display Position								
	POS 9	POS 8	POS 7	POS 6	POS 5	POS 4	POS 3	POS 2	POS 1
For HTB885 display		H	T	B		8	8	5	
For HTB485 display		H	T	B		4	8	5	

6.7. Region Display Table

Region Display	FL Display Position								
	POS 9	POS 8	POS 7	POS 6	POS 5	POS 4	POS 3	POS 2	POS 1
Display for Europe/Russia (EB/EG/EE series)	1	:	E	U	R	O	P	E	
Reserve		2	:	R	E	S	V		
Display for North America region (P, PC, PP series)	3	:	U	S	/	C	A	N	
Reserve		4	:	R	E	S	V		
Display for Japan region (Do series)		5	:	J	A	P	A	N	
Reserve		6	:	R	E	S	V		
Display for G/Other (GN/GS/GT/PH/GK series)	7	:	G	/	O	T	H	E	R
Reserve		8	:	R	E	S	V		
Reserve		9	:	R	E	S	V		
Reserve		1	0	:	R	E	S	V	

6.8. Service Function Error Code

FL display will also be able to display the Error Code of the respective model indicated in the table below

Error Code	Description of error	Automatic FL Display	Diagnostic Contents
F76	Power off the unit during blinking.	Example: 	Abnormality in the stabilized Power Supply
F61	Power off the unit during blinking.	Example: 	Power AMP Output Error
F70 DAP	Blinking repeatedly unless user power off.	Example: 	Communication error between DAP module and microprocessor
F70 HDMI	Blinking repeatedly unless user power off.	Example: 	Communication error between HDMI Module and microprocessor HDMI Module broken and cannot communicate with main microprocessor. * I2C control line (no reply for 10 times) * HDCP keys read error
F70 BT	Blinking repeatedly unless user power off.	Example: 	Communication error between Bluetooth Module and microprocessor
U701	Blinking repeatedly unless user power off.	Example: 	HDMI connection acts unusually When HDMI IC cannot read TV HDCP register from TV side or TV does not support HDCP. * I2C error (usually no ACK)
U703	Blinking repeatedly unless user power off.	Example: 	HDMI connection acts unusually Authentication Error. * Bad receive BKSV * Link verification mismatch * Timed out waiting for downstream repeater
U704	Blinking repeatedly unless user power off.	Example: 	HDMI connection acts unusually HDMI repeater receive unsupported video format (resolution) from source device. * Not support PC format - XVGA and cannot support Vsync vertical frequency other than 60Hz/59.94Hz, 50Hz, 24Hz
U705	Blinking repeatedly unless user power off.	Example: 	The TV's HDMI terminal connected to the main unit or the TV's setting is not compatible with the HDCP 2.2 playback source. * Ensure to connect to the TV's HDCP 2.2 compatible terminal. * Ensure the TV's HDMI HDCP setting corresponds to HDCP 2.2. (Refer to the operating instructions for the TV.)
USB Update Fail	Display Remained unless user power off.	Example: 	USB updating of Software Failed

7 Troubleshooting Guide

7.1. Troubleshooting Flowchart

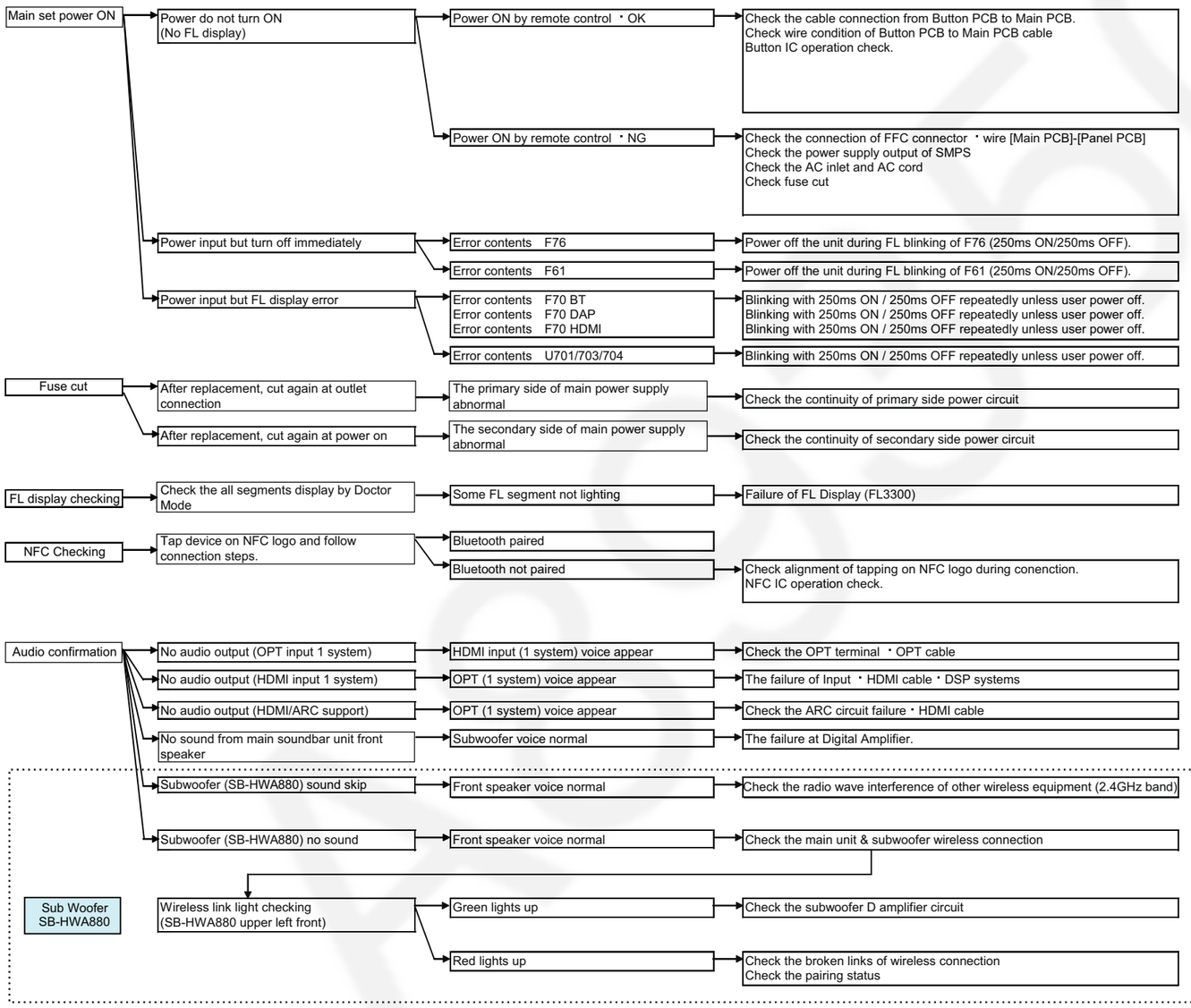
Use the flowchart below to verfiy malfunctions of the unit.

● Reset Method (Factory Shipment Status)

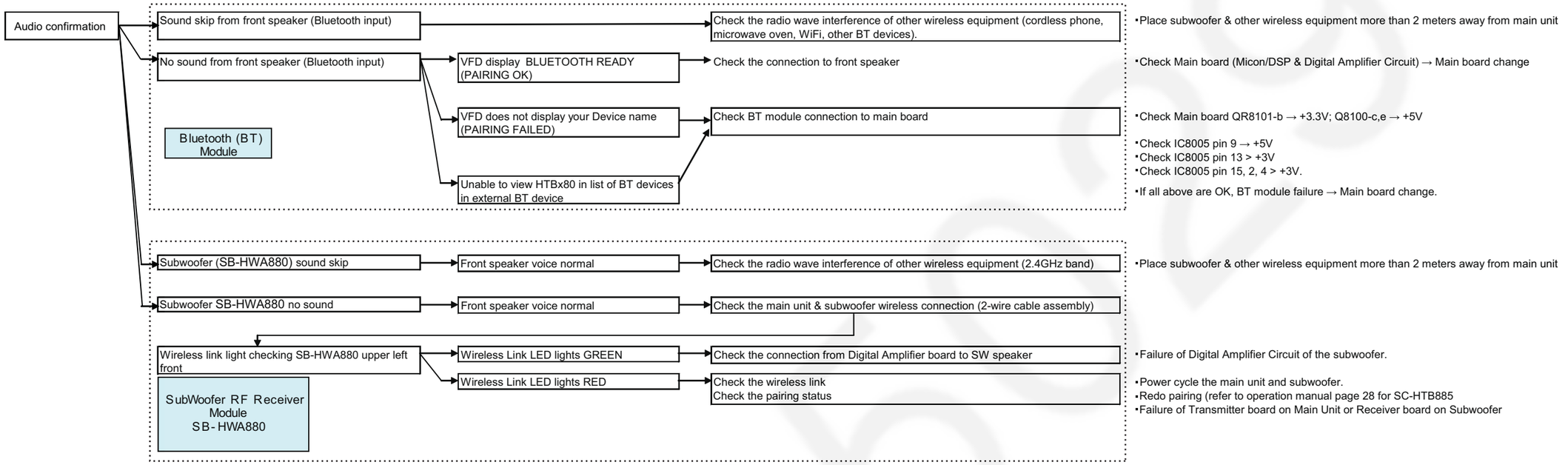
1. Turn on the power of main set.
2. Press and hold the power button for 4 seconds then FL display will show RESET for 2 seconds.
3. Turn off the power.

● Entering Doctor Mode

1. Turn ON main set.
2. Press main set [Volume -] button, then continue press the [Volume -] & [Volume +] of remote control. FL display will show "TΞ".
3. Go in the desired option of doctor mode by pressing the button on remote control. (Refer to Doctor Mode Table of HTB885)
4. After turn off the power, you can exit from Doctor Mode.



7.2. Troubleshooting guide for Wireless



7.3. Troubleshooting guide for HDMI Module

Problems	Checking Points	Checking components	Expected Results
1) No video and audio (Power ON / Standby Pass Through)	**1) External Connection checking**		
	i) Check whether HDMI Input and Output is reversed.		Cable not reverse
	ii) Check whether HDMI cable properly inserted.		Cable inserted properly
	2) HDMI Supply Voltage checking		
	i) Check whether +3.3V is present	IC1100 (Pin 1) , IC1000 (Pins refer to Schematic)	+3.3V supply is present
	ii) Check whether +1.1V is present	IC1101 (Pin 1) , IC1000 (Pins refer to Schematic)	+1.1V supply is present
	iii) Check HDMI Micon supply	IC1104 (Pin 14, 60, 96, 97), CN1000 (Pin 30)	+3.3V supply is present
	3) HDMI Output Voltage Checking		
	i) +5V supply to TV : HDMI_OUT_+5V	TU1200 (Pin 18) , LB1203, IC1200 (Pin4)	+5V supply is present
	4) Hot Plug Voltage checking		
	i) Hot Plug voltage from TV	TU1200 (Pin 19) , IC1000 (Pin 41), IC1104 (Pin 71)	+5V supply is present
	5) Parts availability and solderbility condition		
	i) HDMI Tx/Rx LSI	IC1000	All pins fully soldered. No Short.
	ii) TMDS output swing amplitude control resistor	R1000	No missing and all pins fully soldered. No Short.
	iii) HDMI Output Connector	TU1200	All pins fully soldered. No Short.
	iv) HDMI Output Common-Mode Choke	L1200, L1201	No missing and all pins fully soldered. No Short. There is connections between IC1000 and TU1200
	v) HDMI Output +5V Regulator	IC1200	No missing and all pins fully soldered. No Short.
	vi) HDMI Input Connector	TU1320, TU1350	No missing and all pins fully soldered. No Short.
	vii) HDMI Input +5V detect	LB1320, LB1352, R1052 ~ R1057	No missing and all pins fully soldered
	6) HDMI Connections Checking		
	i) HDMI Output TMDS and DDC signal lines	Pattern between IC1000 and TU1200	There is connection from IC1000 pin to TU1200 pin
	ii) HDMI Input TMDS and DDC signal lines	Pattern between IC1000 and TU1350 or TU1320	There is connection from IC1000 pin to TU1350 or TU1320 pin
	7) HDMI Communication line checking		
	i) HDMI I2C control line from HDMI Micon	IC1104 (Pin 45 & 46), IC1000 (Pin 110 & 112)	No missing parts and there is signal present
	ii) I2C control line from Main Micon to HDMI Micon	IC1104 (Pin 27 & 28), CN1000 (Pin 12 & 13)	No missing parts and there is signal present
	8) HDMI Crystal Oscillator Clock checking		
	i) HDMI Micon Clock Oscillator	X1001 (Pin 1,3), IC1104 (Pin 11, 13)	There is 5MHz Clock present
	ii) HDMI LSI Clock Oscillator	X1000, IC1000 (Pin 114, 115)	There is 27MHz Clock present

Problems	Checking Points	Checking components	Expected Results
2) 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	CN1000 (Pin 26), IC1103 (Pin 1), IC1000 (Pin33)	There is SPDIF signal present (Duty Cycle > 50%)
	ii) For Multi-ch Source : Check HDMI I2S lines	IC1000 (Pin 34,35,36), RX1000 (Pin 1,2,3)	There is signal present when playing
		CN1000 (Pin 21,22,23,24)	
	iii) Check HDMI LRCK and SCLK line	IC1000 (Pin 31,32), CN1000 (Pin 18, 19)	There is clock signal present when playing
	2) Parts solderbility condition		
	i) HDMI SPDIF line	R1003, IC1103	No missing and all pins fully soldered. No Short to others
	ii) HDMI I2S lines	FL/FR : RX1000 pin 6,3	No missing and all pins fully soldered. No Short to others
		C/LFE : RX1000 pin 2,7	
		SL/SR : RX1000 pin 1,8	
		SBL/SBR :R1003	
	iii) HDMI LRCK and SCLK line	R1002, R1001	No missing and all pins fully soldered. No Short to others
	3) HDMI Audio Lines Connection Checking		
	i) HDMI SPDIF, I2S, LRCK and SCLK lines	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"
3) No audio form TV (Video is present) (Power ON / Standby Pass Through)	**1) HDMI audio setting checking**		
	i) Check TV Speaker selection setting	TV Menu (Viera Menu Link for Panasonic TV)	Speaker Selection is set to "TV"
	ii) Check Player Audio output is set to "ON"	Player Setup Menu	HDMI Audio Output setting is set to "ON"
4) No video and audio from TV (Audio present from set speakers)	**1) HDMI Output Voltage Checking**		
	i) +5V supply to TV : HDMI_OUT_+5V	TU1200 (Pin 18) , LB1203, IC1200 (Pin4)	+5V supply is present
	2) Hot Plug Voltage checking		
	i) Hot Plug voltage from TV	TU1200 (Pin 19) , LB1204, R1207, IC1000 (Pin 41), IC11104 (Pin 71)	+5V suply is present
	3) Parts availability and solderbility condition		
	i) HDMI Output +5V Regulator	IC1200	No missing and all pins fully soldered. No Short.
	ii) HDMI Output Connector	TU1200	All pins fully soldered. No Short.
	iv) HDMI Output Common-Mode Choke	L1200, L1201	No missing and all pins fully soldered. No Short. There is connections between IC1000 and TU1200
	iv) TMDS Output swing amplitude control resistor	R1000	No missing and all pins fully soldered. No Short.

Problems	Checking Points	Checking components	Expected Results
5) No HDAVI Control (CEC) function	**1) Signal Line checking**		
	i) Check CEC Line	Q1200 (Pin 2, 4), IC1104 (Pin 15)	There is signal present when executing HDAVI control
	2) Parts availability and solderbility condition		
	i) Check CEC Line	Q1200, R1208, R1209, R1210	No missing and all pins fully soldered. No Short.
		TU1200, TU1320, TU1350 (All Pin 13)	All pins fully soldered. No Short.
6) FL Display "F70 HDMI" error	**1) HDMI Module wiring connection**		
	i) Check the FFC wire connection to the Main PCB	CN1000 FFC wire to Main PCB	Wire is inserted properly, no damage or missing.
	2) HDMI Communication line checking		
	i) HDMI I2C control line from HDMI Micon	IC1104 (Pin 45 & 46), IC1000 (Pin 110 & 112)	No missing parts or short and there is signal present
	ii) I2C control line from Main Micon to HDMI Micon	IC1104 (Pin 27 & 28), CN1000 (Pin 12 & 13)	No missing parts or short and there is signal present

8 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 this service manual)**
- **Before carrying out the disassembly process, please ensure all the safety precautions & procedures are followed.**
- **During the disassembly and/or assembly process, please handle with care as there may be chassis components with sharp edges.**
- **Avoid touching heatsinks due to its high temperature after prolong use.**
- **Be sure to use proper service tools , equipments or jigs during repair.**
- **Select items from the following indexes when disassembly or replacement are required.**

Disassembly of Main Unit (SU-HTB885)

- Disassembly of Rear Cabinet Block
- Disassembly of NFC P.C.B.
- Disassembly of Remote Sensor P.C.B.
- Disassembly of Optical Jack P.C.B.
- Disassembly of Digital Transmitter Module
- Disassembly of Bluetooth Module
- Disassembly of Button P.C.B.
- Disassembly of SMPS P.C.B.
- Disassembly of HDMI P.C.B.
- Disassembly of Main P.C.B.
- Disassembly of Panel P.C.B.
- Disassembly of Surround Speaker (SP1)
- Disassembly of Tweeter Speaker (SP2)
- Disassembly of Woofer Speaker (SP3)
- Disassembly of Center Speaker (SP4)
- Disassembly of Woofer Speaker (SP5)
- Disassembly of Tweeter Speaker (SP6)
- Disassembly of Surround Speaker (SP7)

Disassembly of Active Subwoofer (SB-HWA880)

- Disassembly of Rear Panel Block
- Disassembly of Digital Receiver Module
- Disassembly of SW Power Button P.C.B.
- Disassembly of SW SMPS and SW AC Inlet P.C.B.
- Disassembly of Bottom Panel Assembly
- Disassembly of Woofer Speaker (SP61)

8.1. Service Fixture & Tools

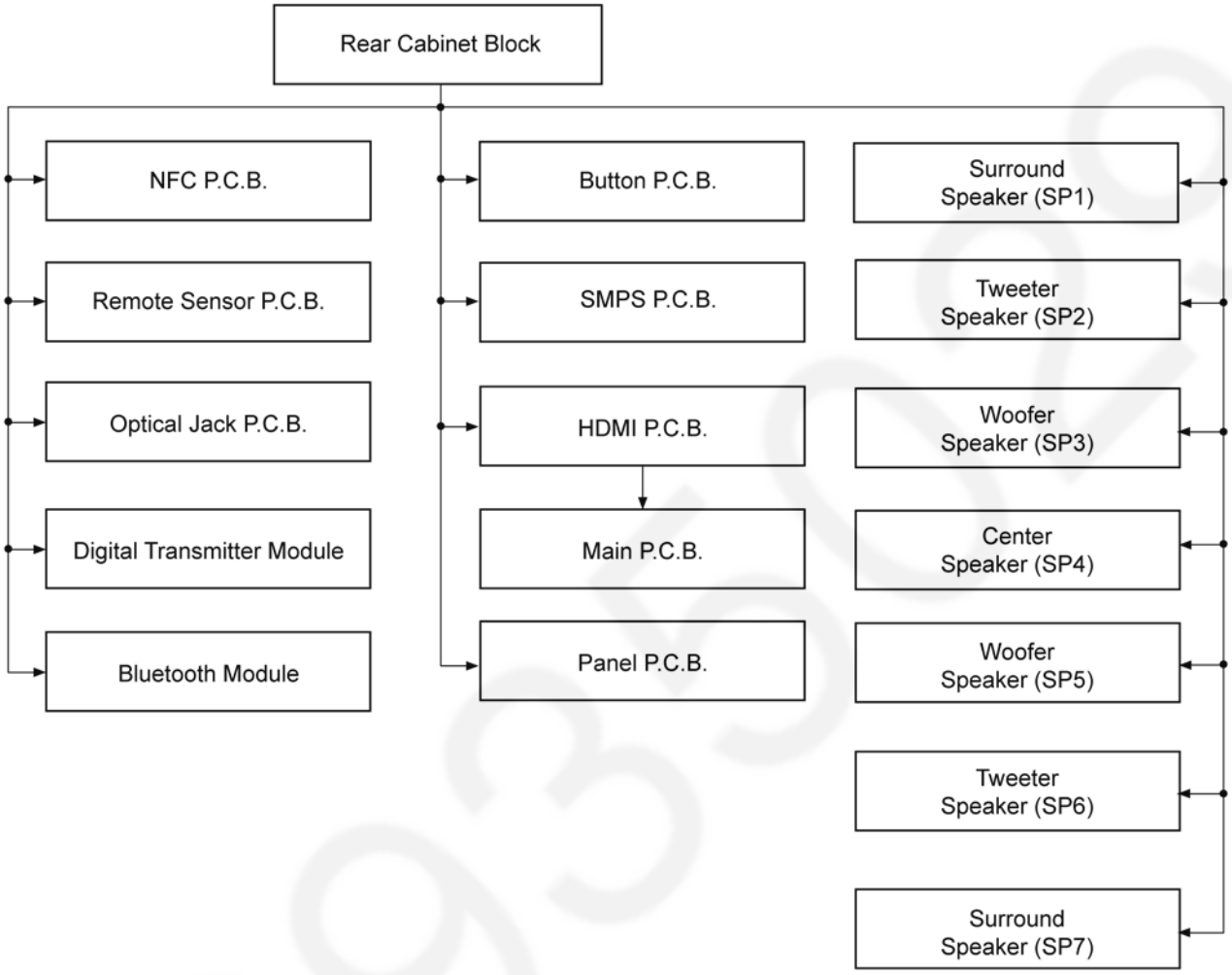
Prepare service tools before process service position.

Ref. No.	Service Tools		Remarks
SFT1	2P WIRE (SPK-SW DAMP)	REXX1194 (2P Extension Cable)	SB-HWA880

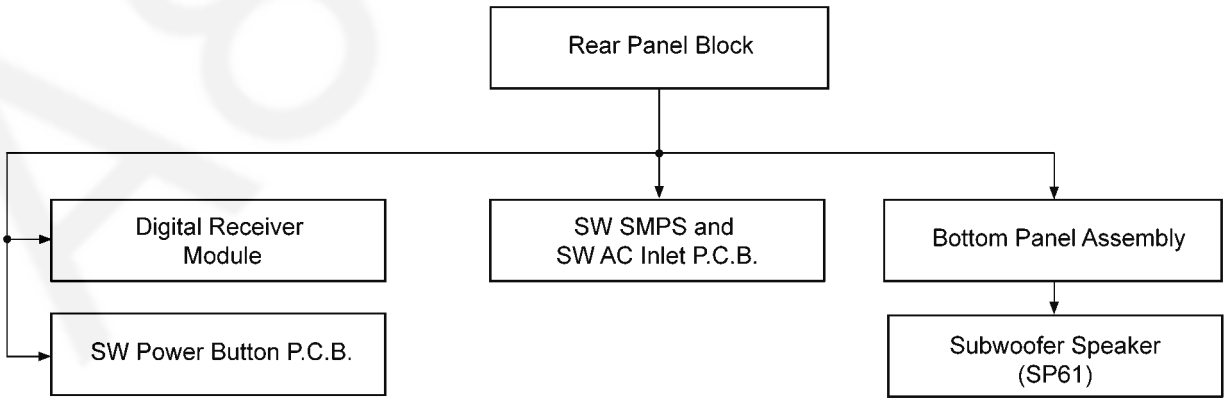
8.2. Disassembly flow chart

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.

8.2.1. Main Unit (SU-HTB885)



8.2.2. Active Subwoofer (SB-HWA880)



8.3. Type of Screws

8.3.1. Main Unit (SU-HTB885)

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

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

ⓐ : XTB3+12JFJK
ⓑ : XTB3+10JFJ
ⓒ : RHD14136
ⓓ : RHDX301002
ⓔ : RHDX261002

8.3.2. Active Subwoofer (SB-HWA880)

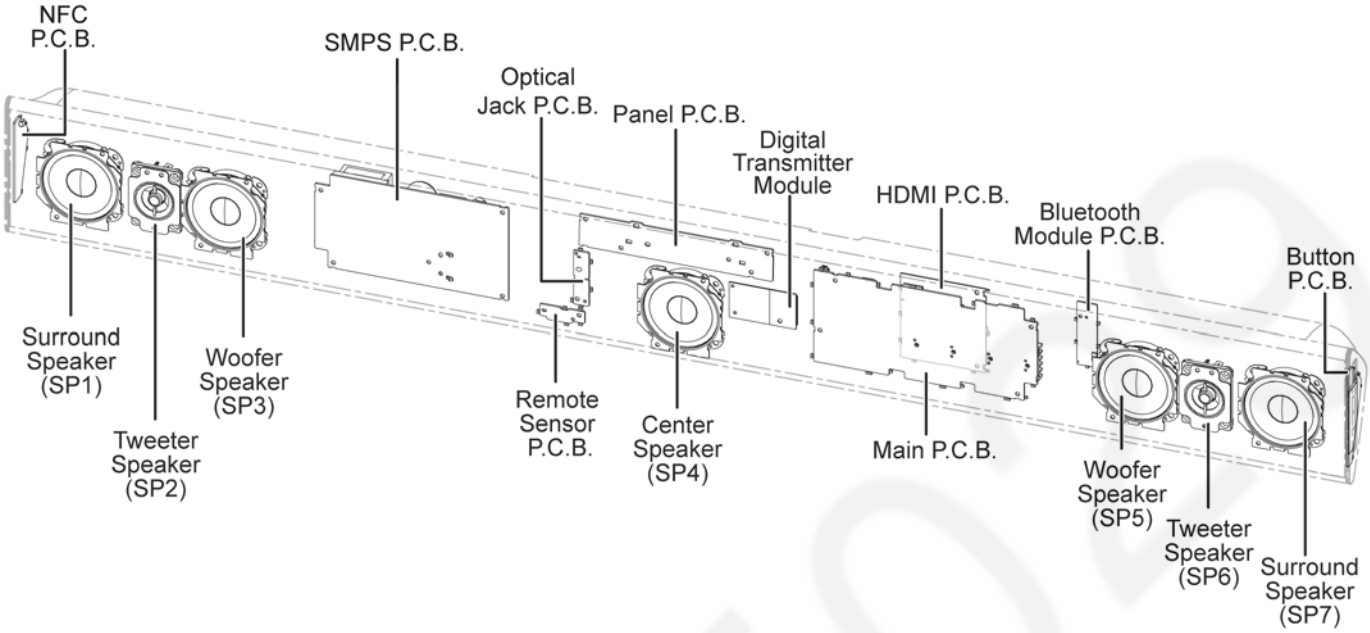
CAUTION NOTE:
Please use original screw and at correct locations.

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

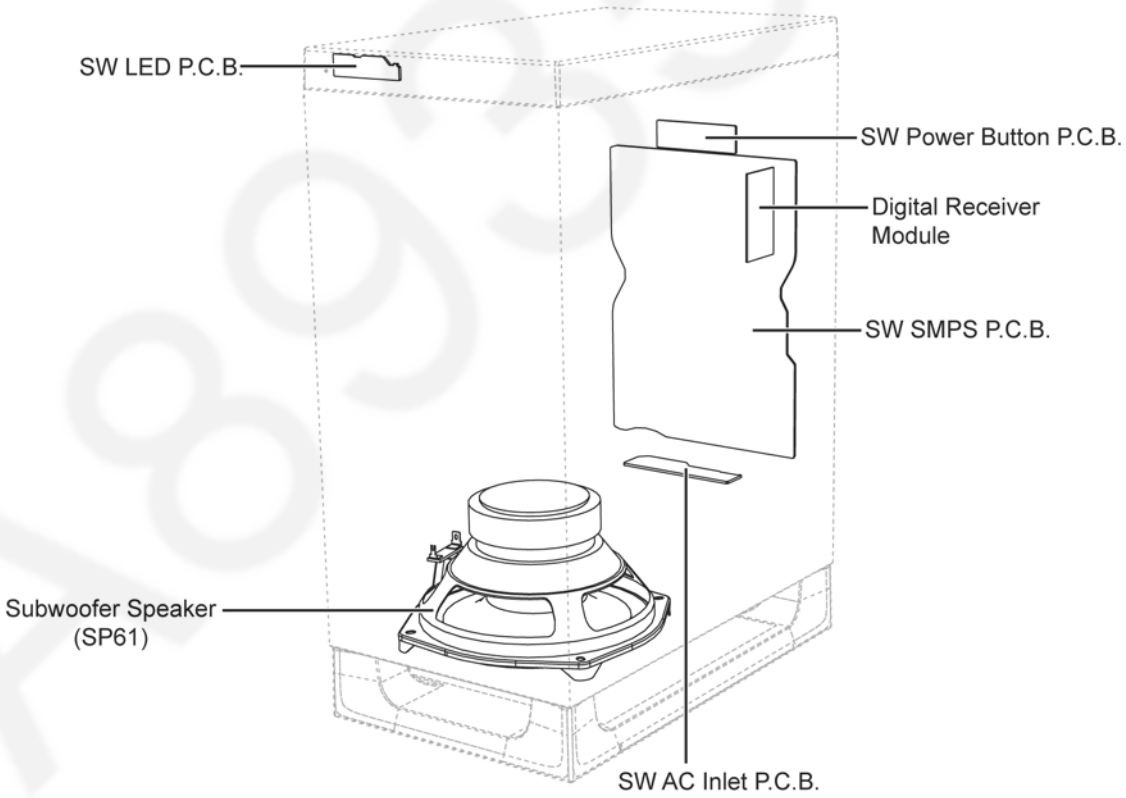
ⓐ : XTB4+16AFJK
ⓑ : RHD30111-31
ⓒ : RHDX301005
ⓓ : XTB3+10JFJK

8.4. Main Parts Location Diagram

8.4.1. Main Unit (SU-HTB885)



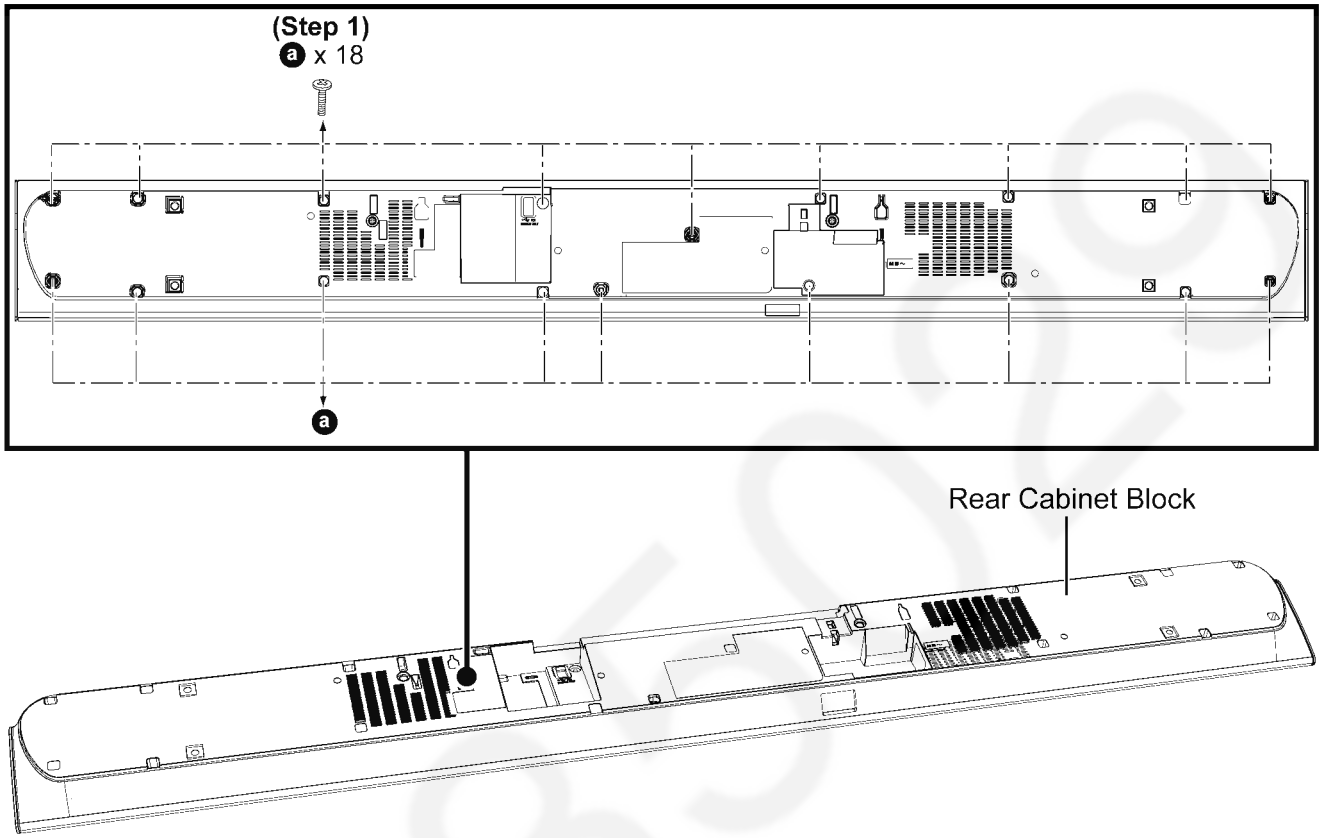
8.4.2. Active Subwoofer (SB-HWA880)



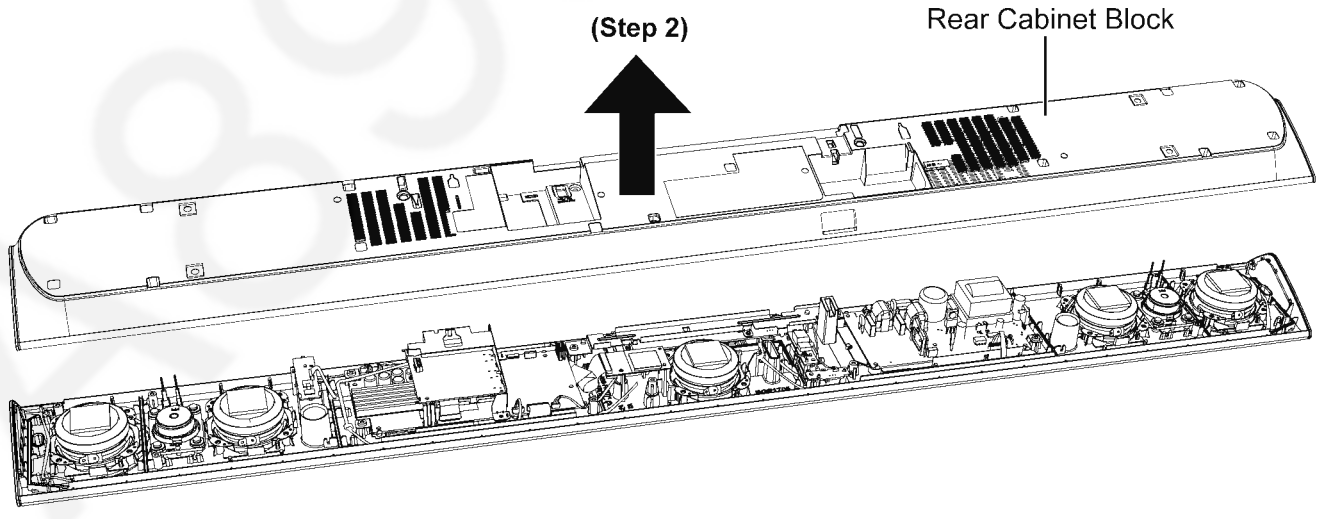
8.5. Disassembly of Main Unit (SU-HTB885)

8.5.1. Disassembly of Rear Cabinet Block

Step 1 : Remove 18 screws.



Step 2 : Remove Rear Cabinet Block.
Caution : Do not exert too much force as it may damage the internal wiring.

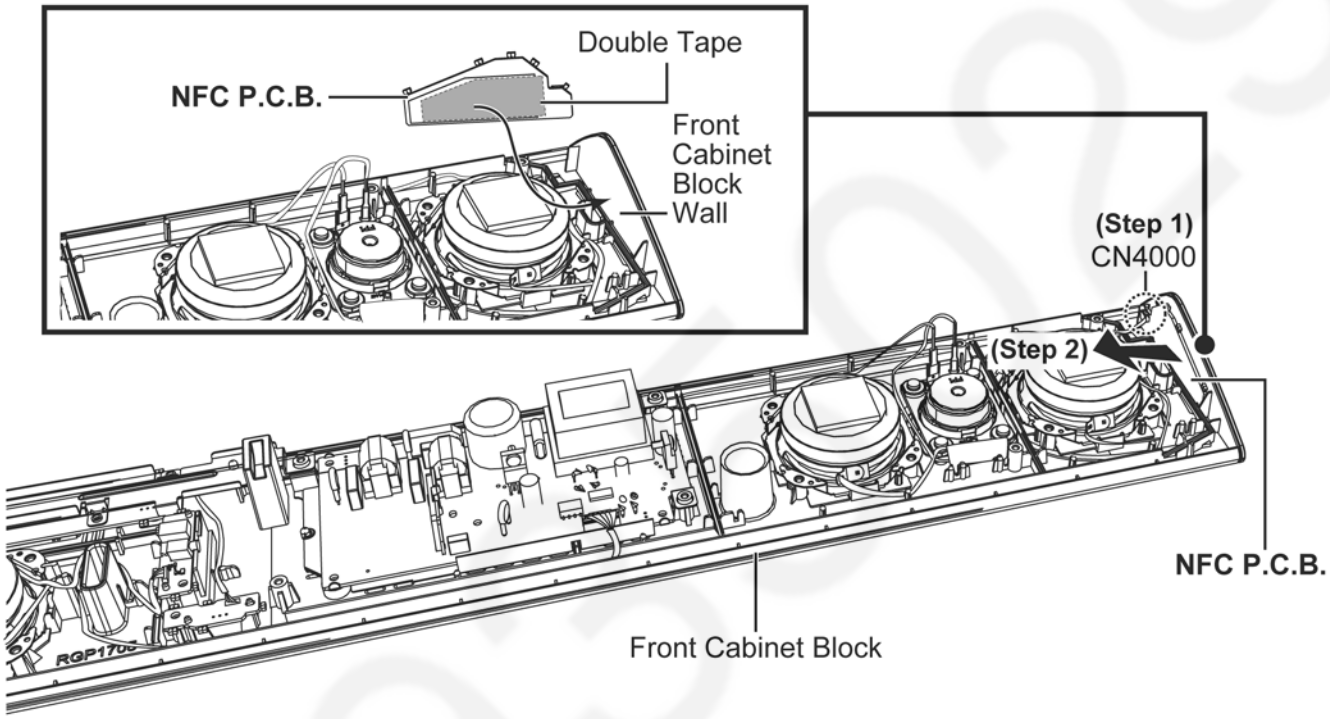


8.5.2. Disassembly of NFC P.C.B.

• Refer to “Disassembly of Rear Cabinet Block”.

Caution:
In case either NFC P.C.B. or EEPROM IC (IC2002) on Main P.C.B. should break down, they need to be replaced at the same time as a pair.

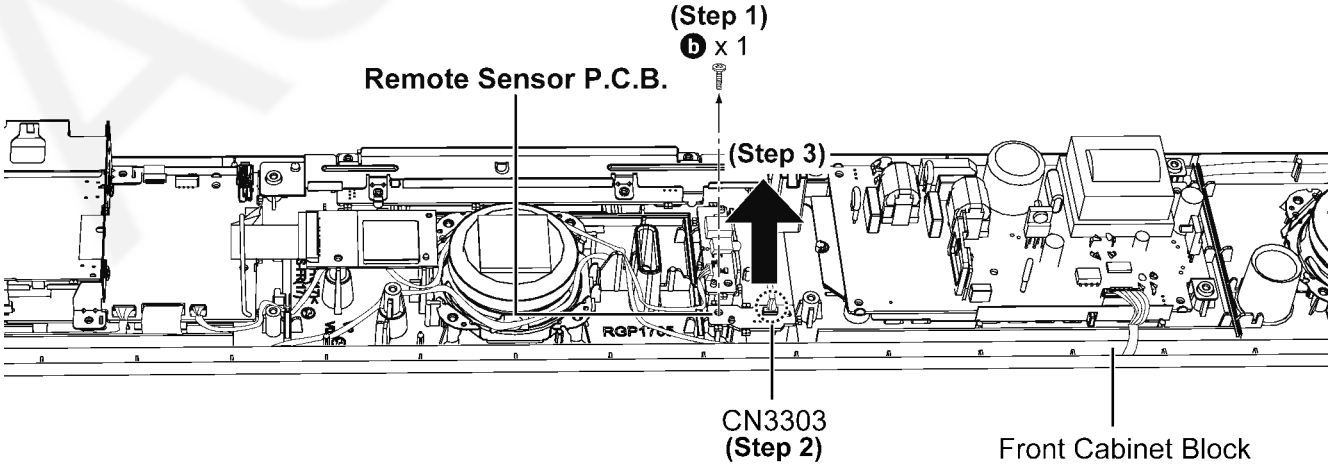
Step 1 : Detach 3P wire at connector (CN4000) on NFC P.C.B..
Step 2 : Remove NFC P.C.B..
Caution : During assembly, ensure to push NFC P.C.B. to Front Cabinet Block Wall.



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

• Refer to “Disassembly of Rear Cabinet Block”.
•

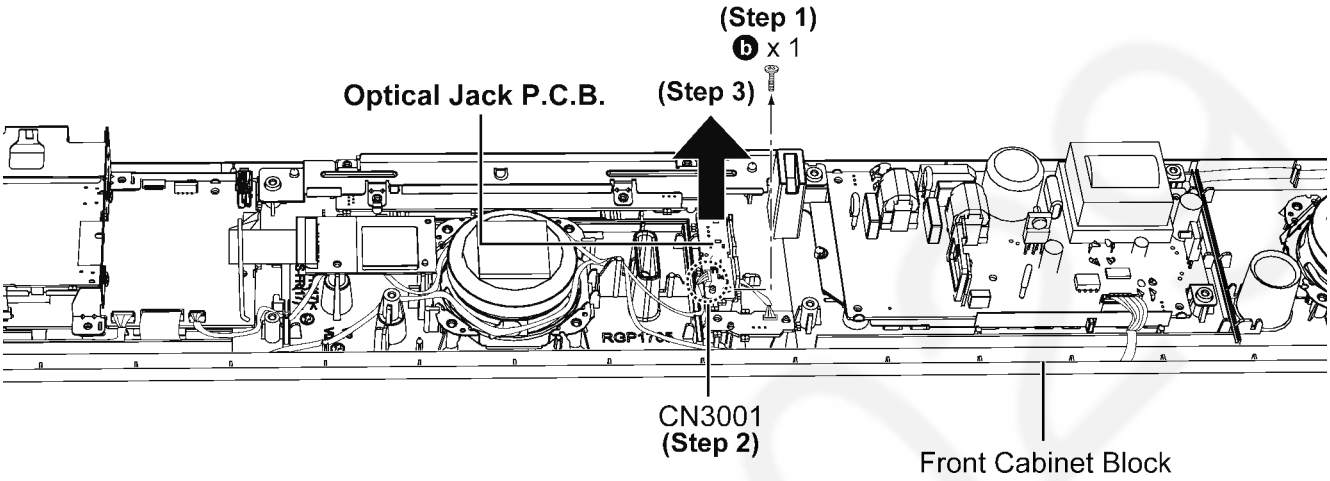
Step 1 : Remove 1 screw.
Step 2 : Detach 3P wire at connector (CN3303) on Remote Sensor P.C.B..
Step 3 : Remove Remote Sensor P.C.B..



8.5.4. Disassembly of Optical Jack P.C.B.

• Refer to “Disassembly of Rear Cabinet Block”.

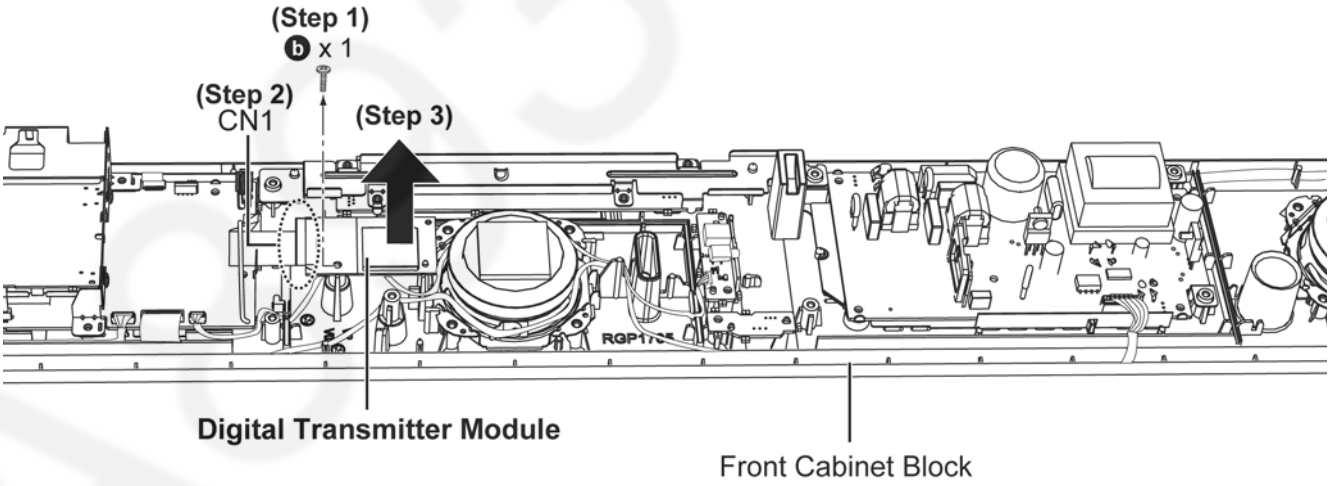
Step 1 : Remove 1 screw.
Step 2 : Detach 5P wire at connector (CN3001) on Optical Jack P.C.B..
Step 3 : Remove Optical Jack P.C.B..



8.5.5. Disassembly of Digital Transmitter Module

• Refer to “Disassembly of Rear Cabinet Block”.

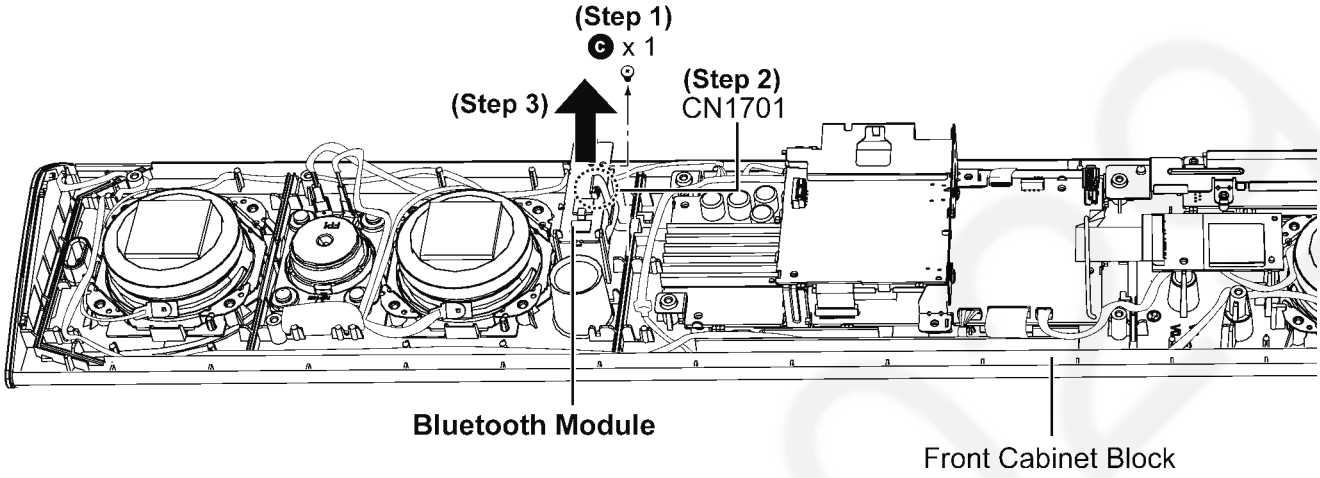
Step 1 : Remove 1 screw.
Step 2 : Detach 24P FFC at connector (CN1) on Digital Transmitter Module.
Step 3 : Remove Digital Transmitter Module.



8.5.6. Disassembly of Bluetooth Module

• Refer to “Disassembly of Rear Cabinet Block”.

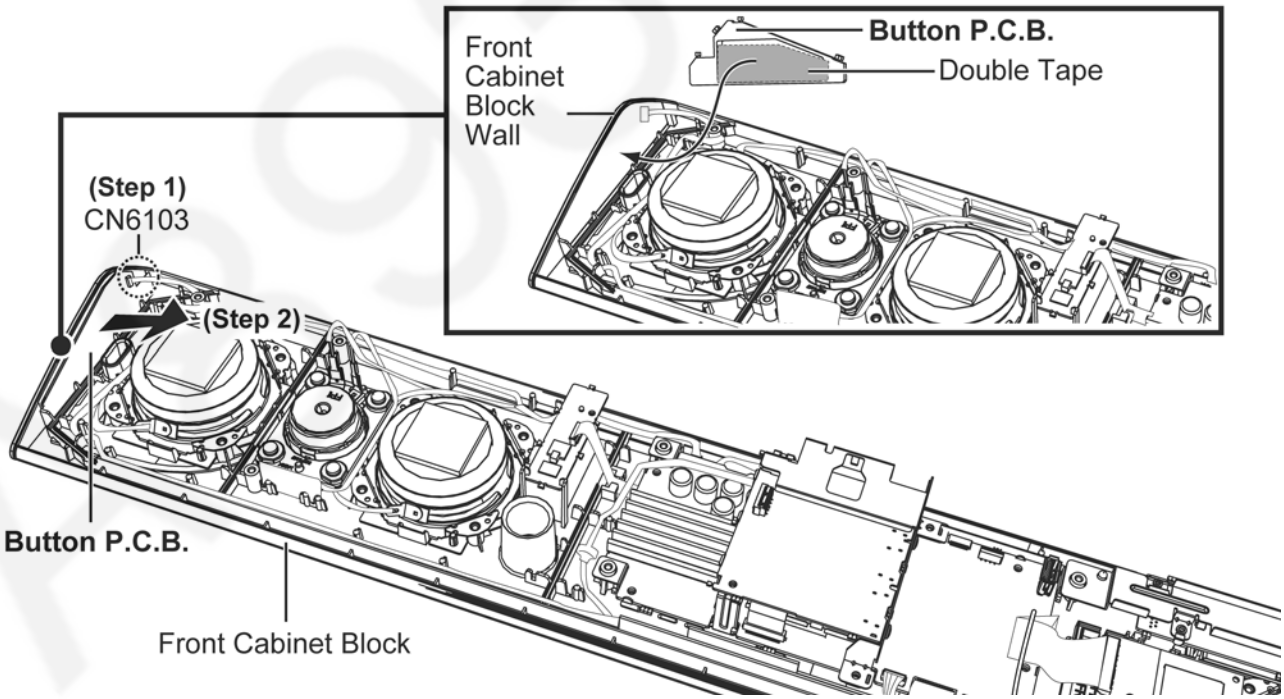
Step 1 : Remove 1 screw.
Step 2 : Detach 16P FFC at connector (CN1701) on Bluetooth Module.
Step 3 : Remove Bluetooth Module.



8.5.7. Disassembly of Button P.C.B.

• Refer to “Disassembly of Rear Cabinet Block”.

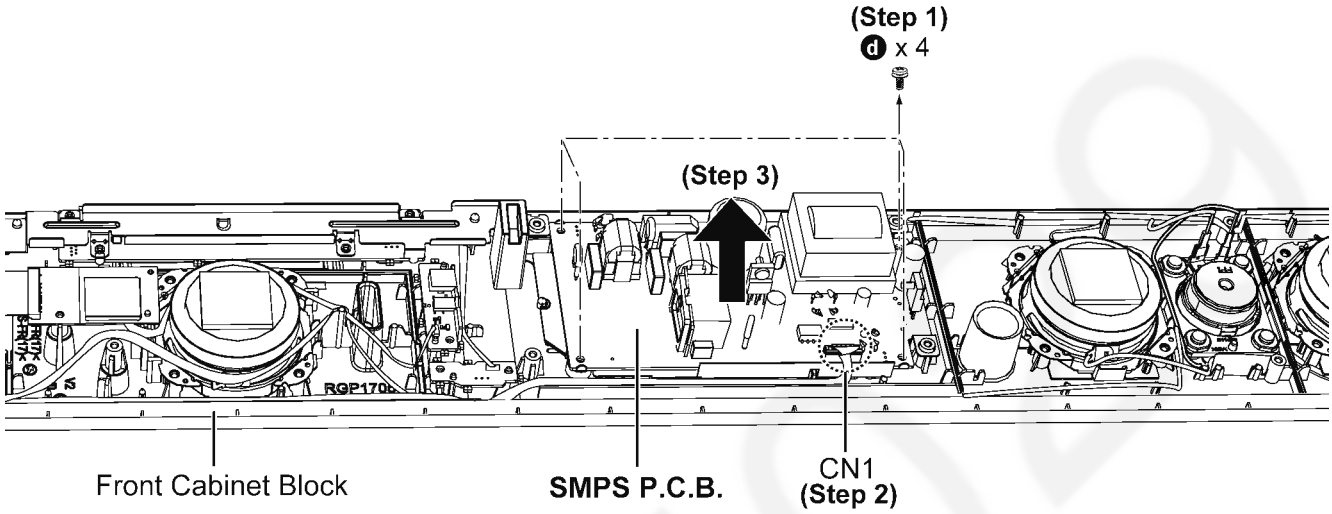
Step 1 : Detach 8P wire at connector (CN6103) on Button P.C.B..
Step 2 : Remove Button P.C.B..
Caution : During assembly, ensure to push Button P.C.B. to Front Cabinet Block Wall.



8.5.8. Disassembly of SMPS P.C.B.

• Refer to “Disassembly of Rear Cabinet Block”.

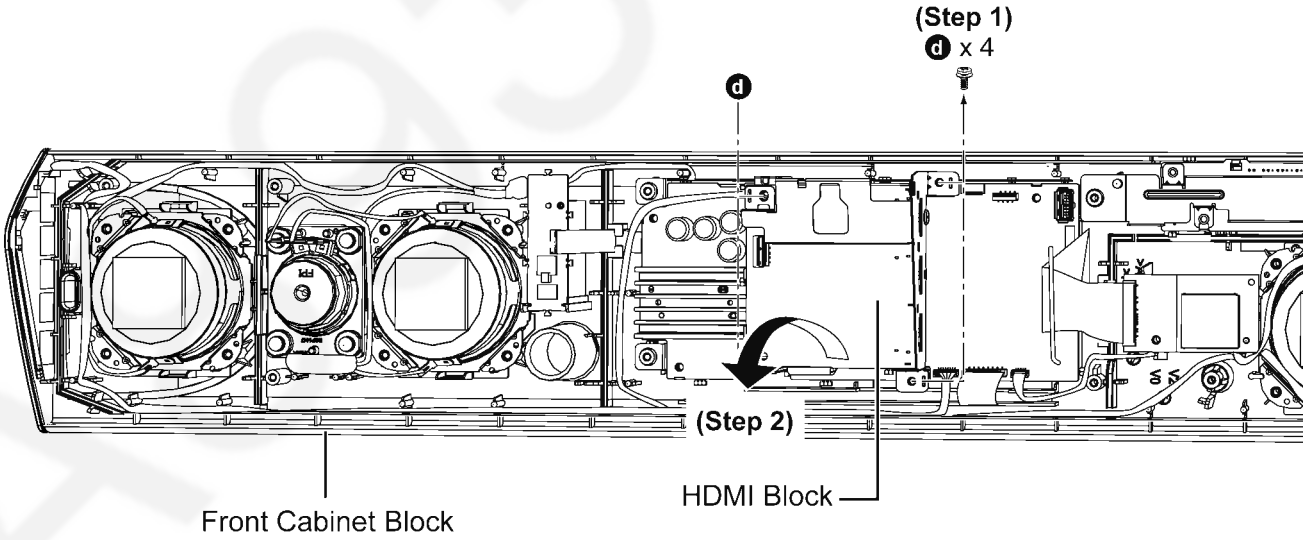
Step 1 : Remove 4 screws.
Step 2 : Detach 7P wire at connector (CN1) on SMPS P.C.B..
Step 3 : Remove SMPS P.C.B..



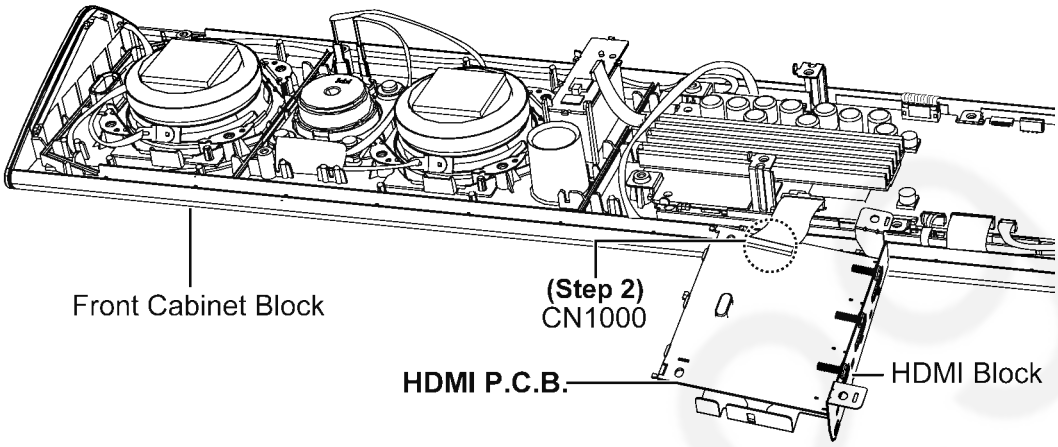
8.5.9. Disassembly of HDMI P.C.B.

• Refer to “Disassembly of Rear Cabinet Block”.

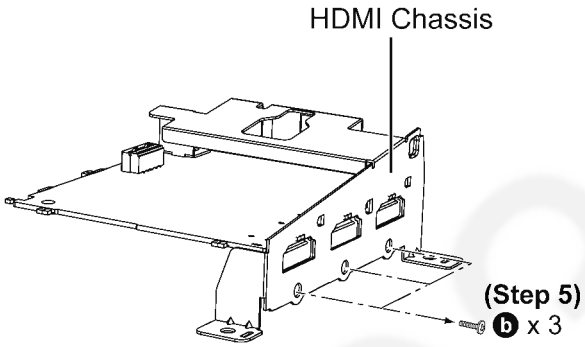
Step 1 : Remove 4 screws.
Step 2 : Upset HDMI Block.

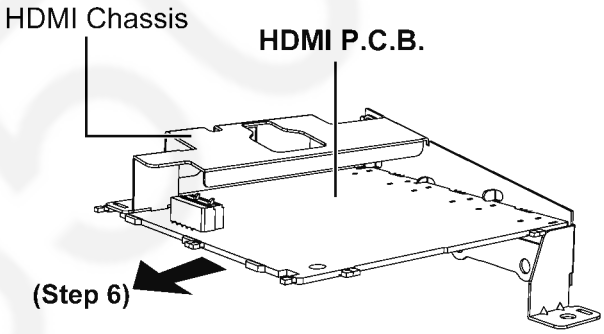


Step 3 : Detach 30P FFC at connector (CN1000) on HDMI P.C.B..
Step 4 : Remove HDMI Block.



Step 5 : Remove 3 screws.
Step 6 : Remove HDMI P.C.B..



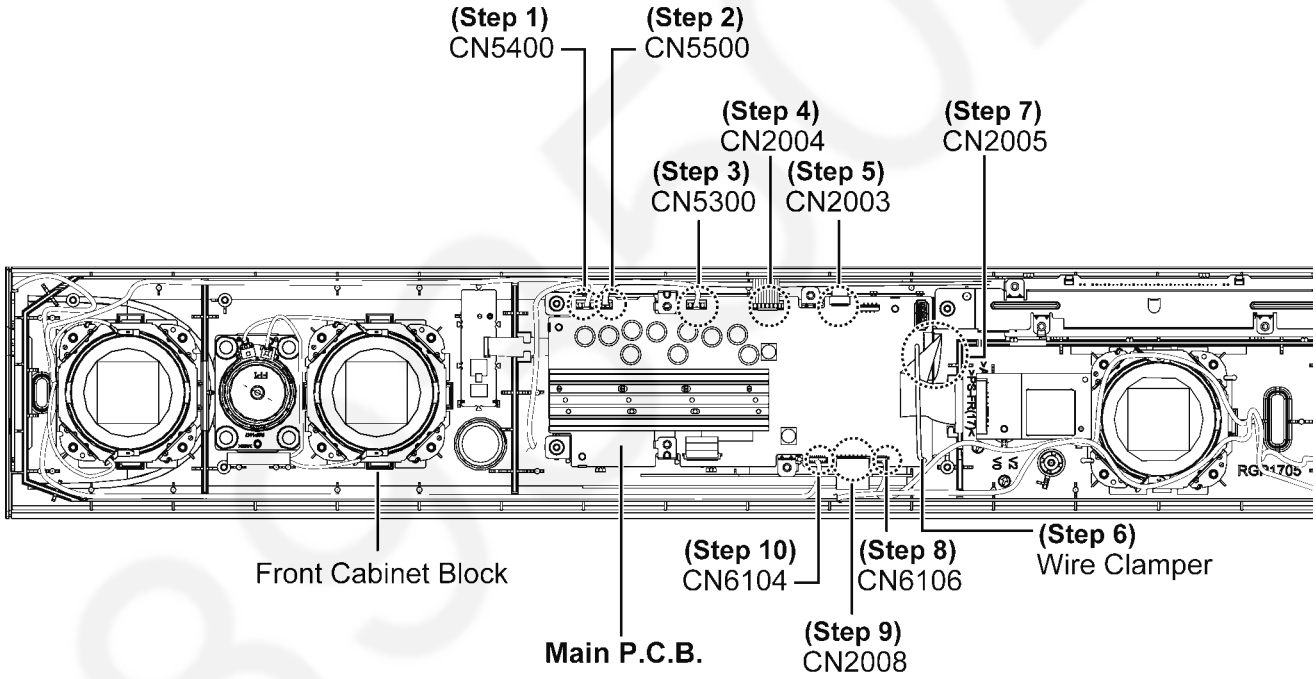


8.5.10. Disassembly of Main P.C.B.

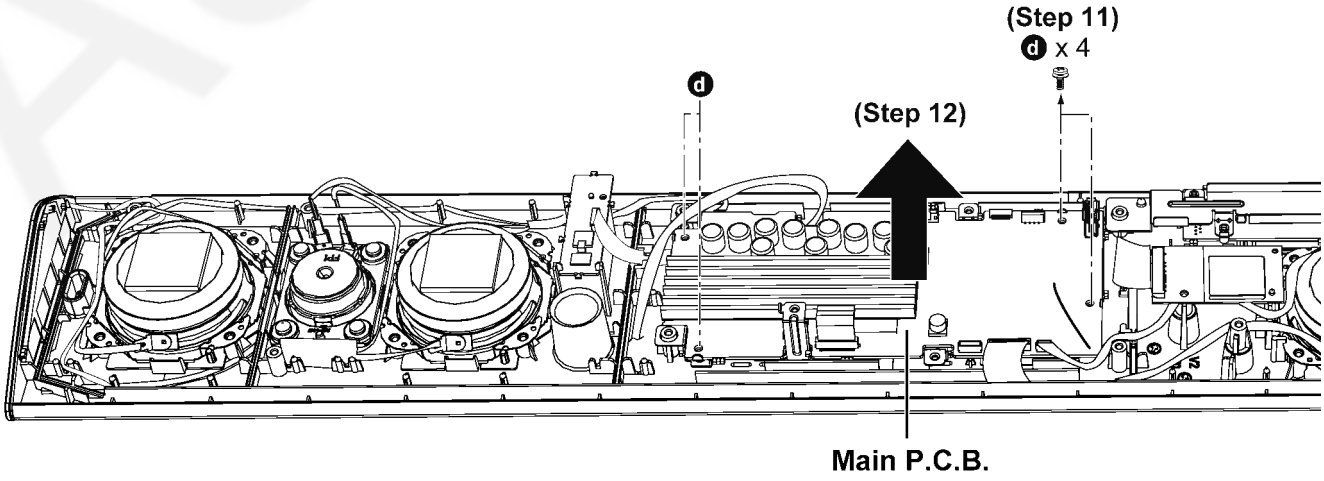
- Refer to “Disassembly of Rear Cabinet Block”.
- Refer to (Step 1) - (Step 4) of item 8.5.9.

Caution:
In case either NFC P.C.B. or EEPROM IC (IC2002) on Main P.C.B. should break down, they need to be replaced at the same time as a pair.

Step 1 : Detach 4P wire at connector (CN5400) on Main P.C.B..
Step 2 : Detach 2P wire at connector (CN5500) on Main P.C.B..
Step 3 : Detach 4P wire at connector (CN5300) on Main P.C.B..
Step 4 : Detach 7P wire at connector (CN2004) on Main P.C.B..
Step 4 : Detach 7P wire at connector (CN2004) on Main P.C.B..
Step 5 : Detach 16P FFC at connector (CN2003) on Main P.C.B..
Step 6 : Lift up Wire Clamper.
Step 7 : Detach 24P FFC at connector (CN2005) on Main P.C.B..
Step 8 : Detach 5P wire at connector (CN6106) on Main P.C.B..
Step 9 : Detach 15P FFC at connector (CN2008) on Main P.C.B..
Step 10 : Detach 8P wire at connector (CN6104) on Main P.C.B..



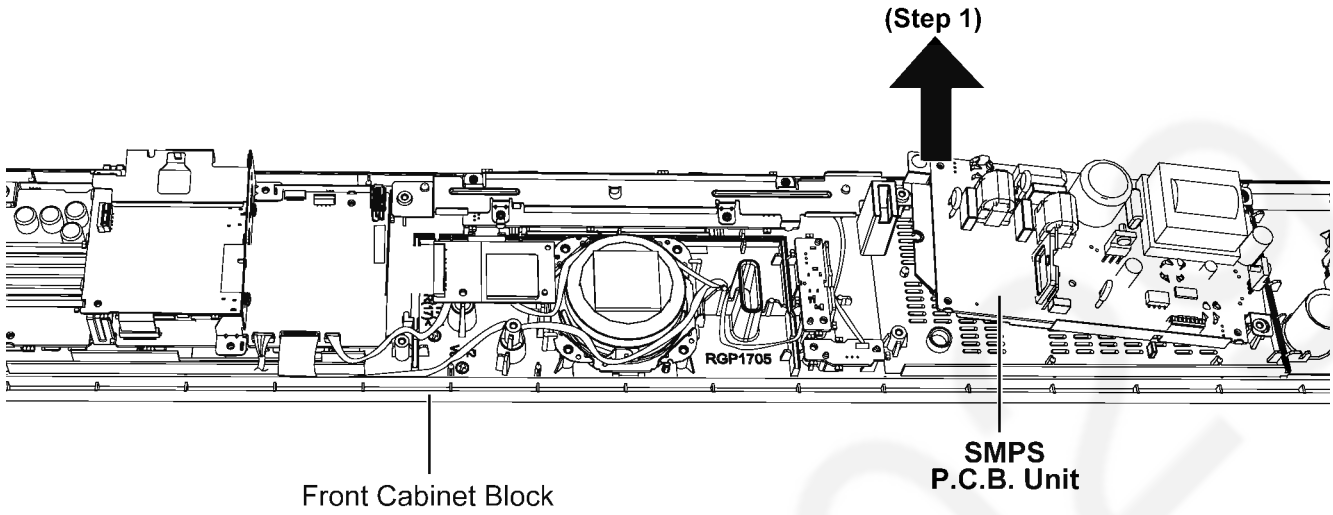
Step 11 : Remove 4 screws.
Step 12 : Remove Main P.C.B..



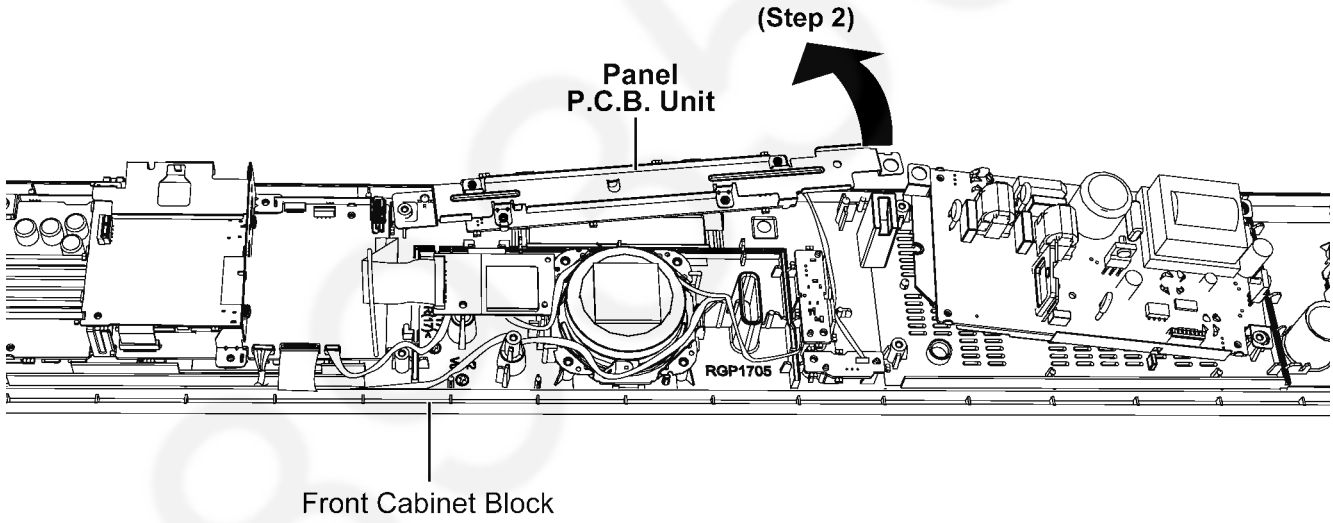
8.5.11. Disassembly of Panel P.C.B.

• Refer to “Disassembly of Rear Cabinet Block”.

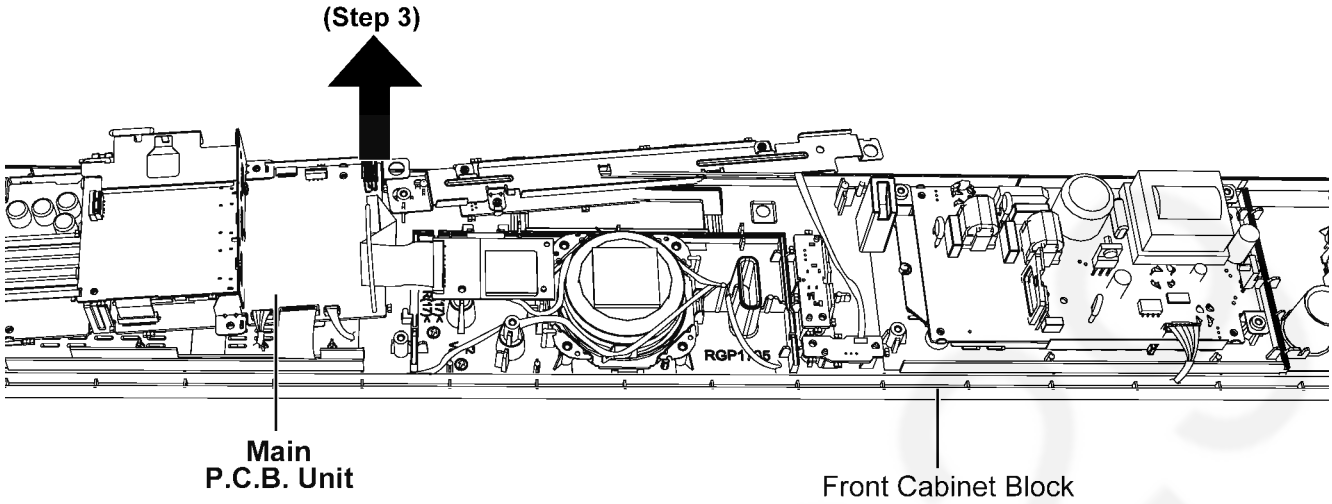
Step 1 : Slightly lift up SMPS P.C.B. Unit.



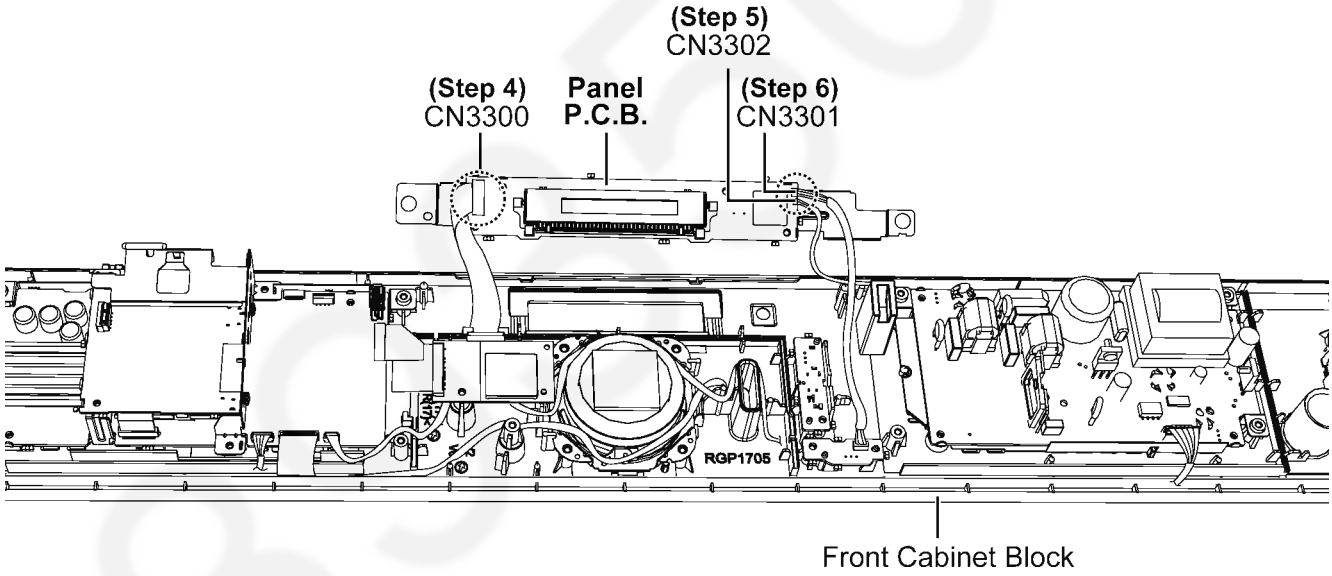
Step 2 : Lift up Panel P.C.B. Unit.



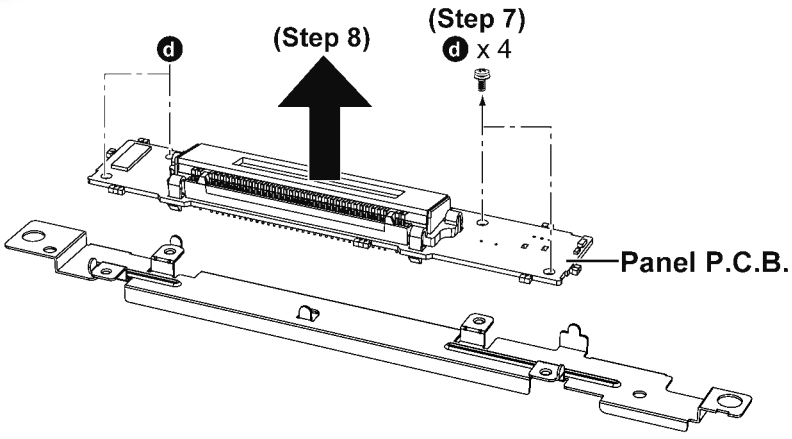
Step 3 : Slightly lift up Main P.C.B. Unit.



Step 4 : Detach 15P FFC at connector (CN3300) on Panel P.C.B..
Step 5 : Detach 3P wire at connector (CN3302) on Panel P.C.B..
Step 6 : Detach 3P wire at connector (CN3301) on Panel P.C.B..



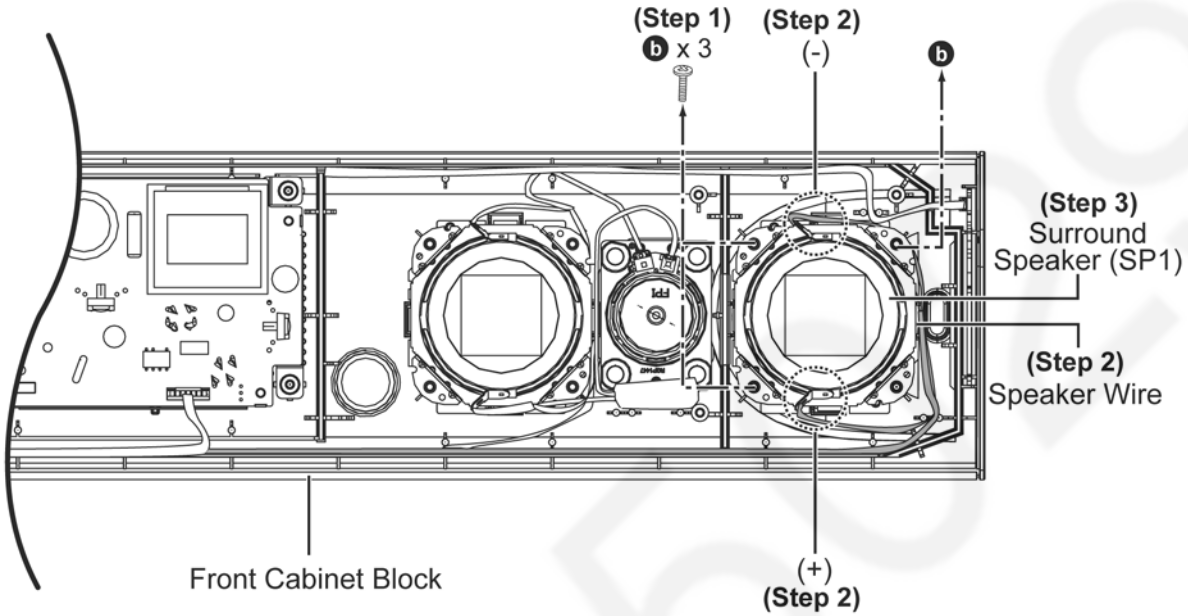
Step 7 : Remove 4 screws.
Step 8 : Remove Panel P.C.B..



8.5.12. Disassembly of Surround Speaker (SP1)

• Refer to “Disassembly of Rear Cabinet Block”.

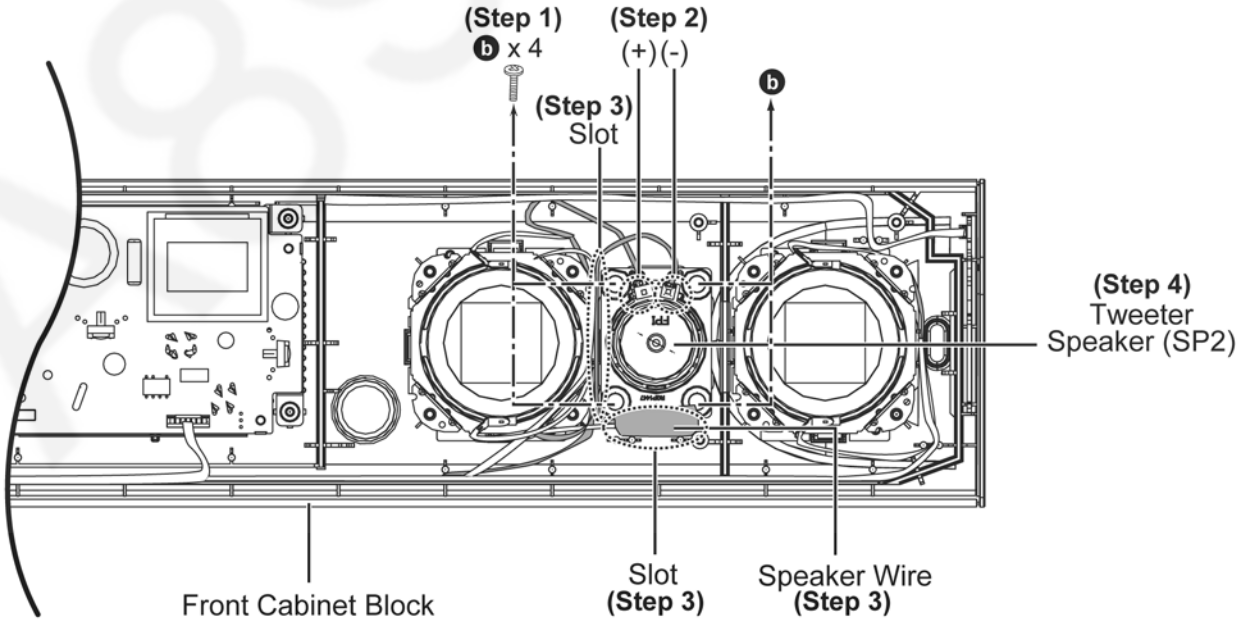
Step 1 : Remove 3 screws.
Step 2 : Detach speaker wire.
Step 3 : Release the speaker wire from the slots.
Step 4 : Remove Surround Speaker (SP1).



8.5.13. Disassembly of Tweeter Speaker (SP2)

• Refer to “Disassembly of Rear Cabinet Block”.

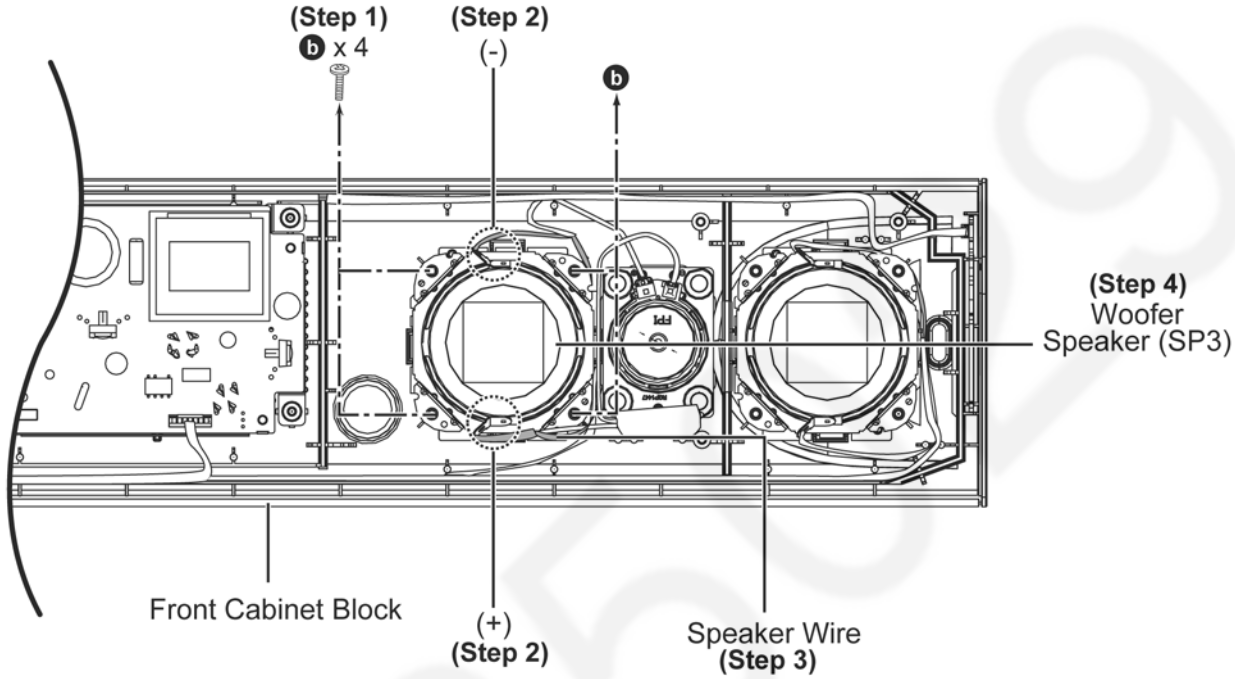
Step 1 : Remove 4 screws.
Step 2 : Detach speaker wire.
Step 3 : Release the speaker wire from the slots.
Step 4 : Remove Tweeter Speaker (SP2).



8.5.14. Disassembly of Woofer Speaker (SP3)

• Refer to “Disassembly of Rear Cabinet Block”.

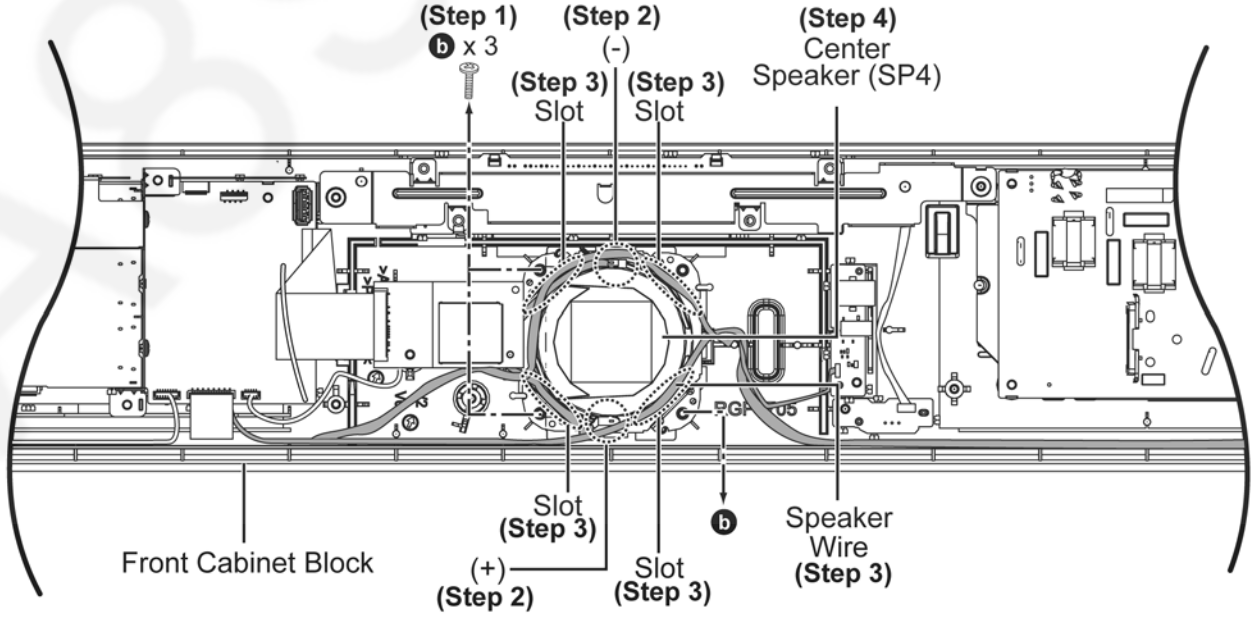
Step 1 : Remove 4 screws.
Step 2 : Detach speaker wire.
Step 3 : Release the speaker wire from the slots.
Step 4 : Remove Woofer Speaker (SP3).



8.5.15. Disassembly of Center Speaker (SP4)

• Refer to “Disassembly of Rear Cabinet Block”.

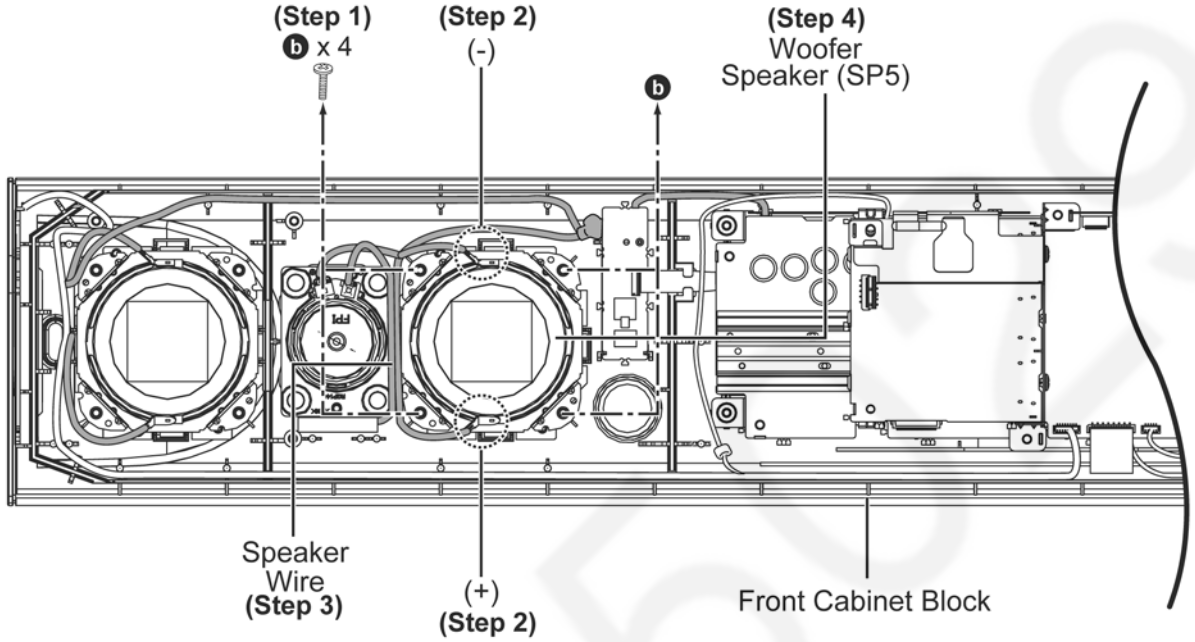
Step 1 : Remove 3 screws.
Step 2 : Detach speaker wire.
Step 3 : Release the speaker wire from the slots.
Step 4 : Remove Center Speaker (SP4).



8.5.16. Disassembly of Woofer Speaker (SP5)

• Refer to “Disassembly of Rear Cabinet Block”.

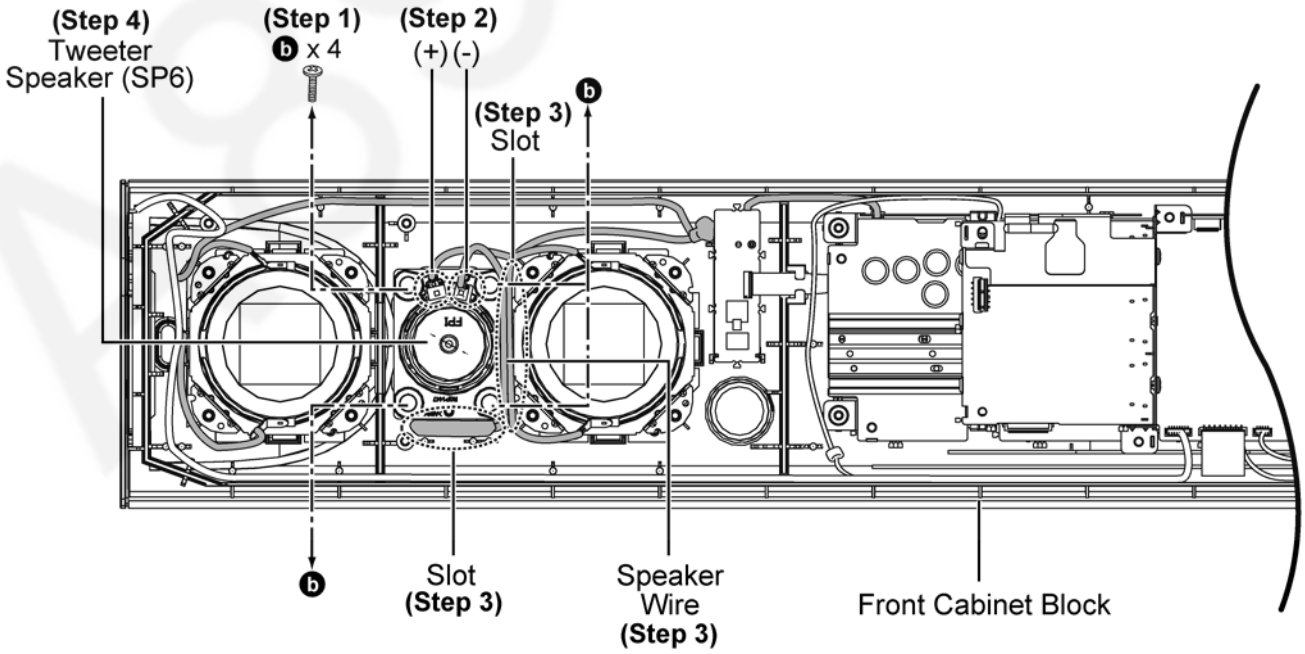
Step 1 : Remove 4 screws.
Step 2 : Detach speaker wire.
Step 3 : Release the speaker wire from the slot.
Step 4 : Remove Woofer Speaker (SP5).



8.5.17. Disassembly of Tweeter Speaker (SP6)

• Refer to “Disassembly of Rear Cabinet Block”.

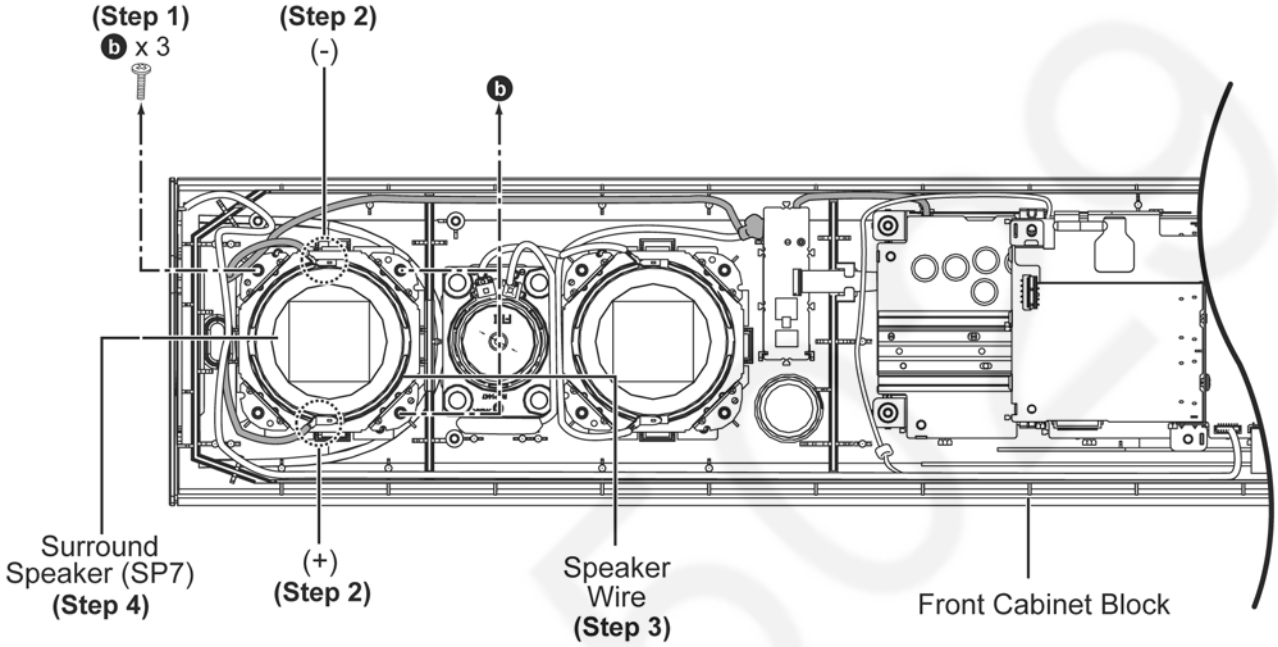
Step 1 : Remove 4 screws.
Step 2 : Detach speaker wire.
Step 3 : Release the speaker wire from the slots.
Step 4 : Remove Tweeter Speaker (SP6).



8.5.18. Disassembly of Surround Speaker (SP7)

• Refer to “Disassembly of Rear Cabinet Block”.

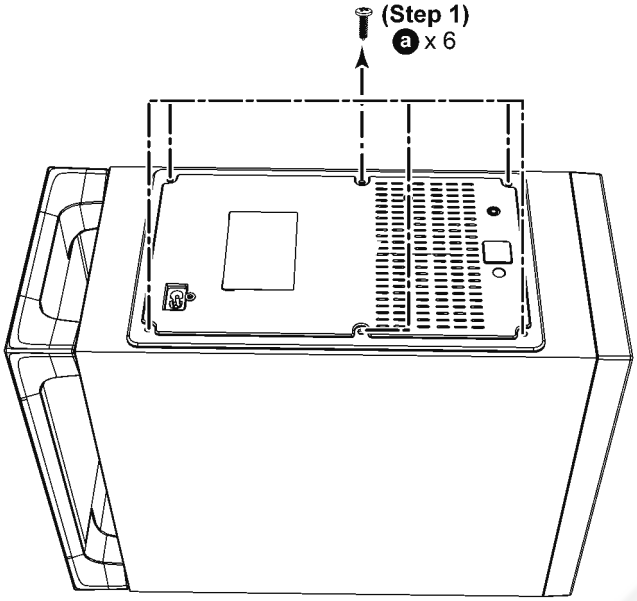
Step 1 : Remove 3 screws.
Step 2 : Detach speaker wire.
Step 3 : Release the speaker wire from the slots.
Step 4 : Remove Surround Speaker (SP7).



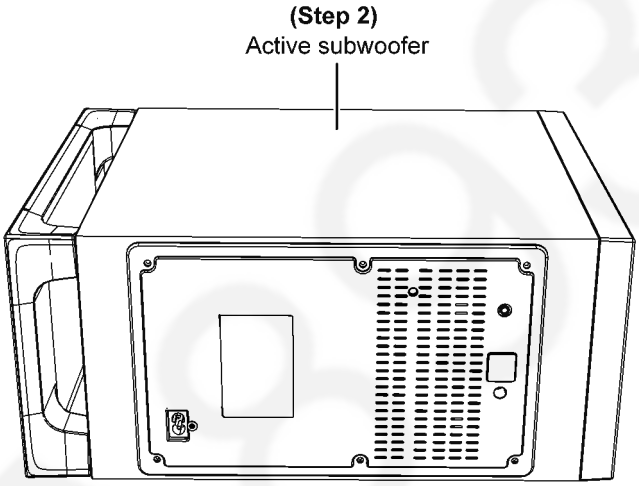
8.6. Disassembly of Active Subwoofer (SB-HWA880)

8.6.1. Disassembly of Rear Panel Block

Step 1 : Remove 6 screws.

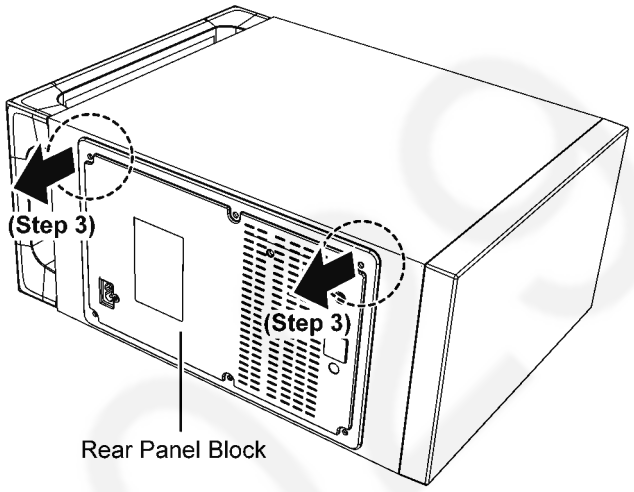


Step 2 : Upset Active subwoofer.

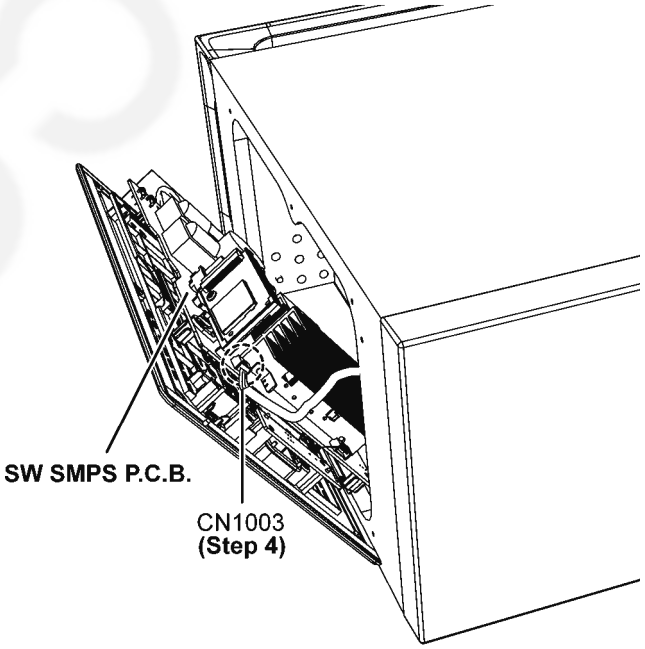


Step 3 : Slightly detach Rear Panel Block.

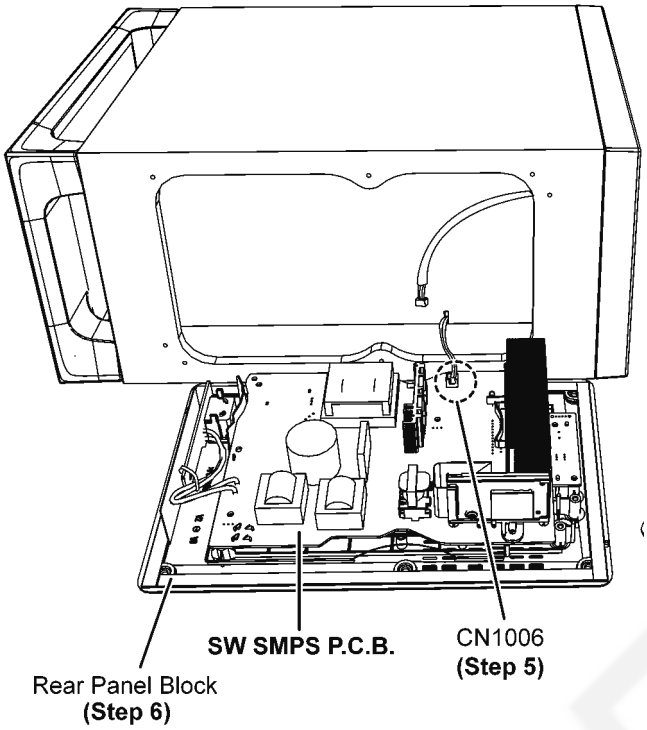
Caution : Do not exert too much force as it may damage the internal wiring.



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



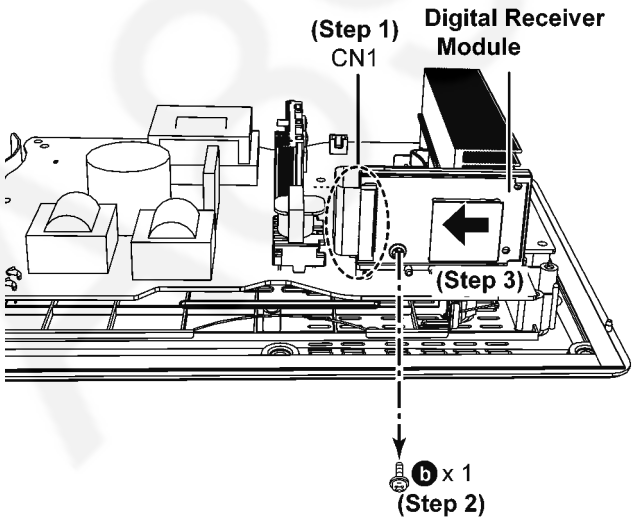
Step 5 : Detach 2P Wire at connector (CN1006) on the SW SMPS P.C.B..
Step 6 : Remove Rear Panel Block.



8.6.2. Disassembly of Digital Receiver Module

• Refer to “Disassembly of Rear Panel Block”.

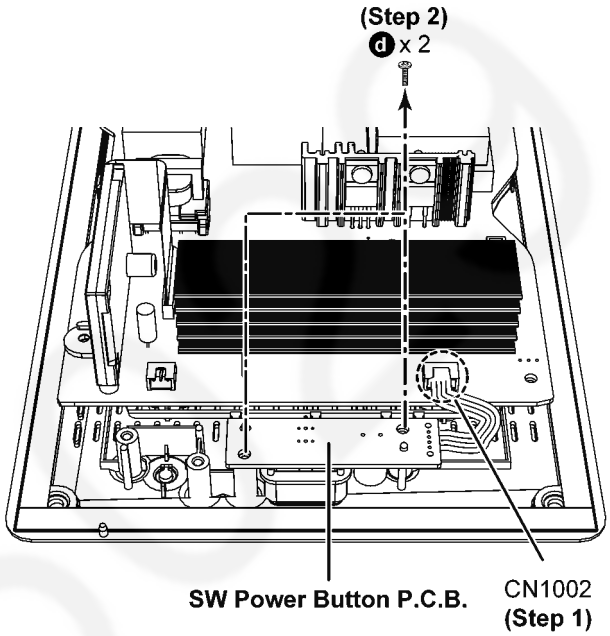
Step 1 : Detach 24P FFC at connector (CN1) on Digital Receiver Module.
Step 2 : Remove 1 screw.
Step 3 : Remove Digital Receiver Module.



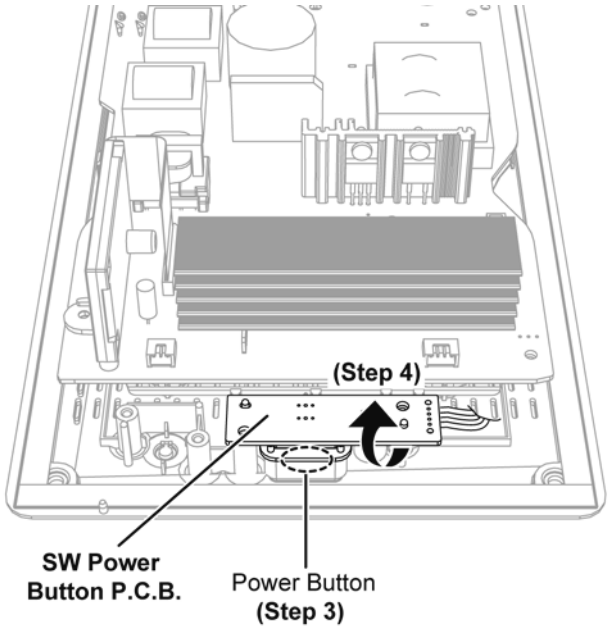
8.6.3. Disassembly of SW Power Button P.C.B.

• Refer to “Disassembly of Rear Panel Block”.

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



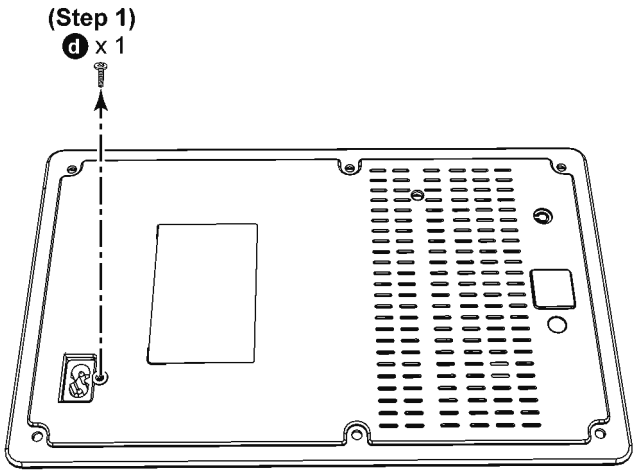
Step 3 : Press and hold Power Button.
Step 4 : Slightly lift up to remove SW Power Button P.C.B..



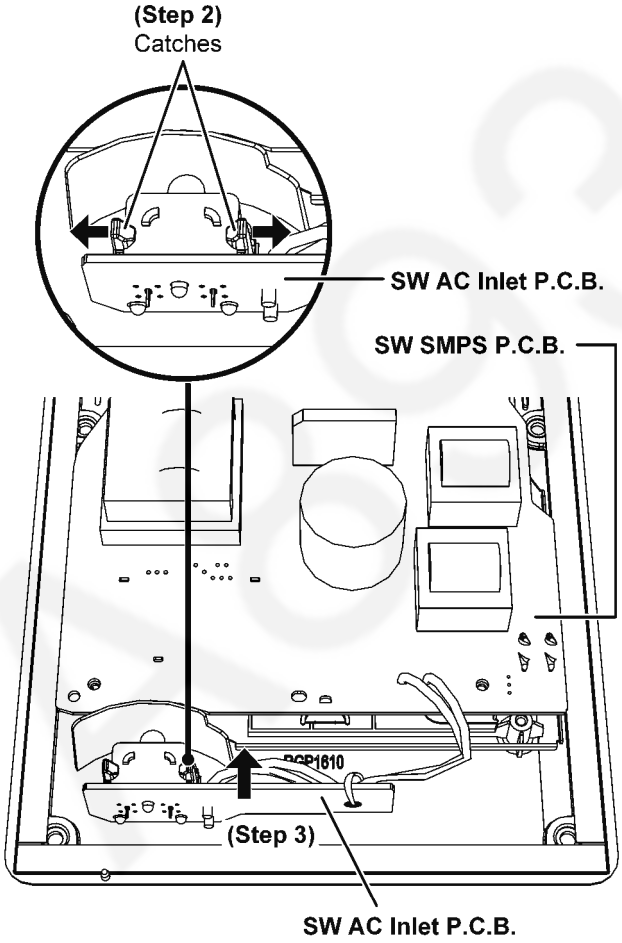
8.6.4. Disassembly of SW SMPS and SW AC Inlet P.C.B.

• Refer to “Disassembly of Rear Panel Block”.

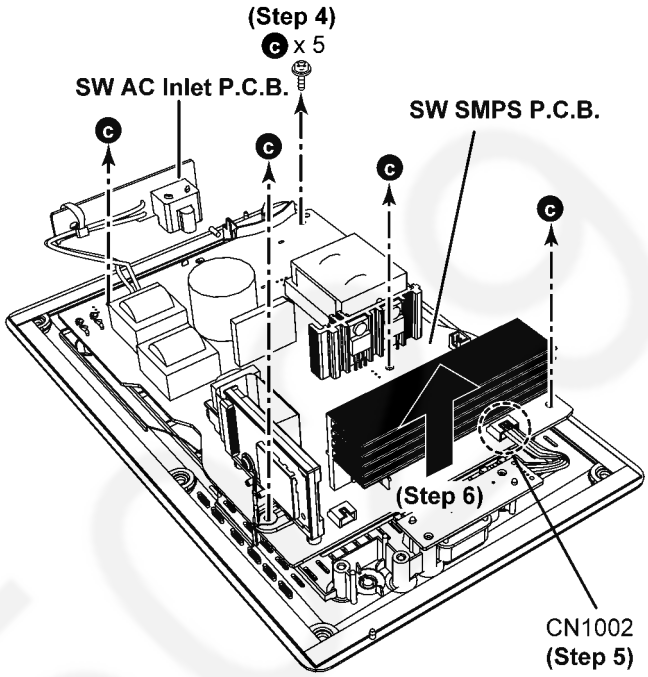
Step 1 : Remove 1 screw.



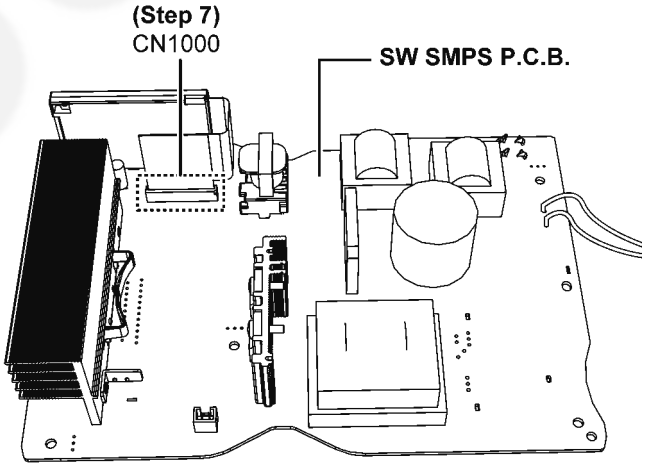
Step 2 : Release catches.
Step 3 : Lift up SW AC Inlet P.C.B..



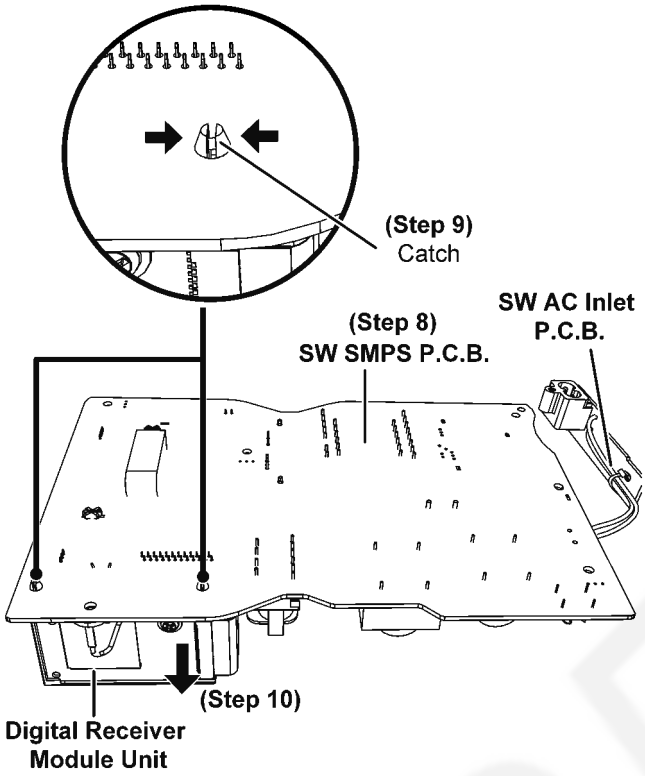
Step 4 : Remove 5 screws.
Step 5 : Detach 4P Wire at connector (CN1002) on the SW SMPS P.C.B..
Step 6 : Lift up SW SMPS P.C.B. and SW AC Inlet P.C.B..



Step 7 : Detach 24P FFC at connector (CN1000) on SW SMPS P.C.B..

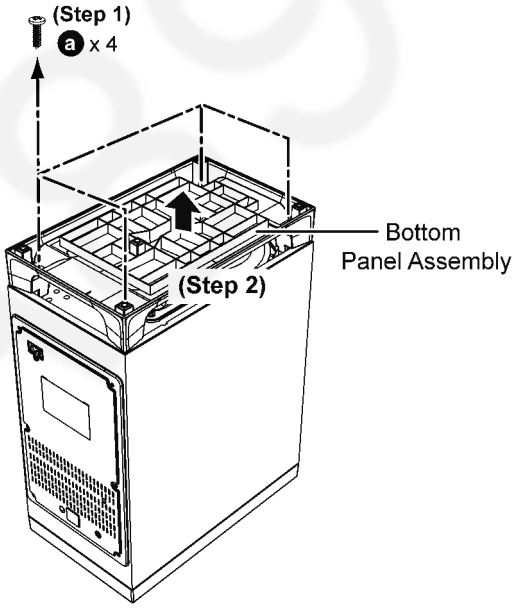


Step 8 : Upset SW SMPS P.C.B..
Step 9 : Push inward to release catch.
Step 10 : Remove Digital Receiver Module Unit, SW SMPS P.C.B. & SW AC Inlet P.C.B..



8.6.5. Disassembly of Bottom Panel Assembly

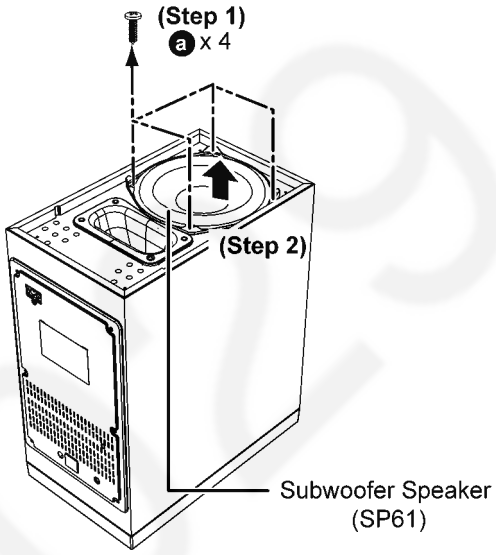
Step 1 : Remove 4 screws.
Step 2 : Remove Bottom Panel Assembly.



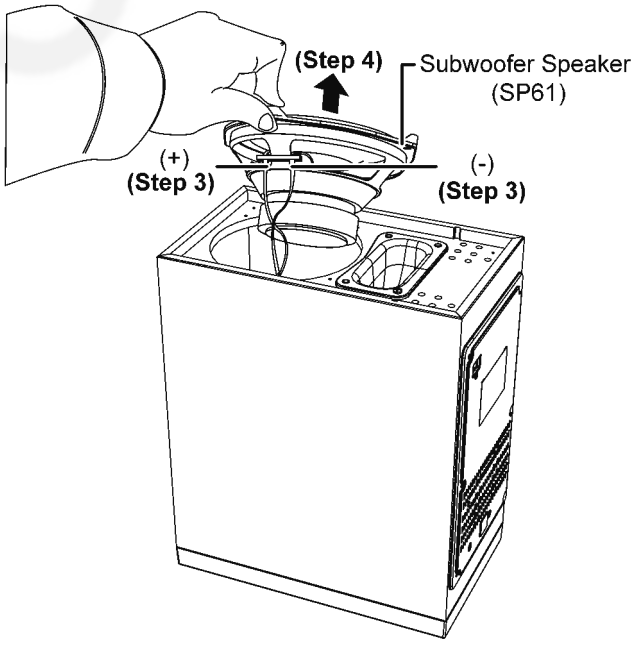
8.6.6. Disassembly of Subwoofer Speaker (SP61)

• Refer to “Disassembly of Bottom Panel Assembly”.

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



Step 3 : Detach speaker wire.
Step 4 : Remove Subwoofer Speaker (SP61).



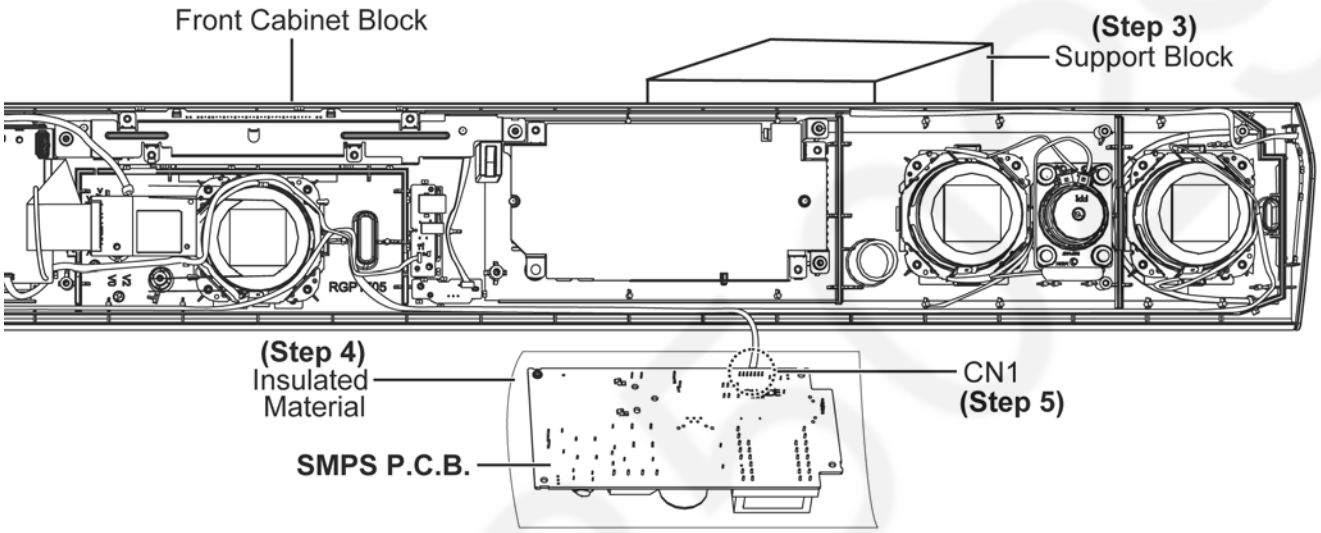
9 Service Position

9.1. Main Unit (SU-HTB885)

Note: For description of the disassembly procedures, see the Section 8.5

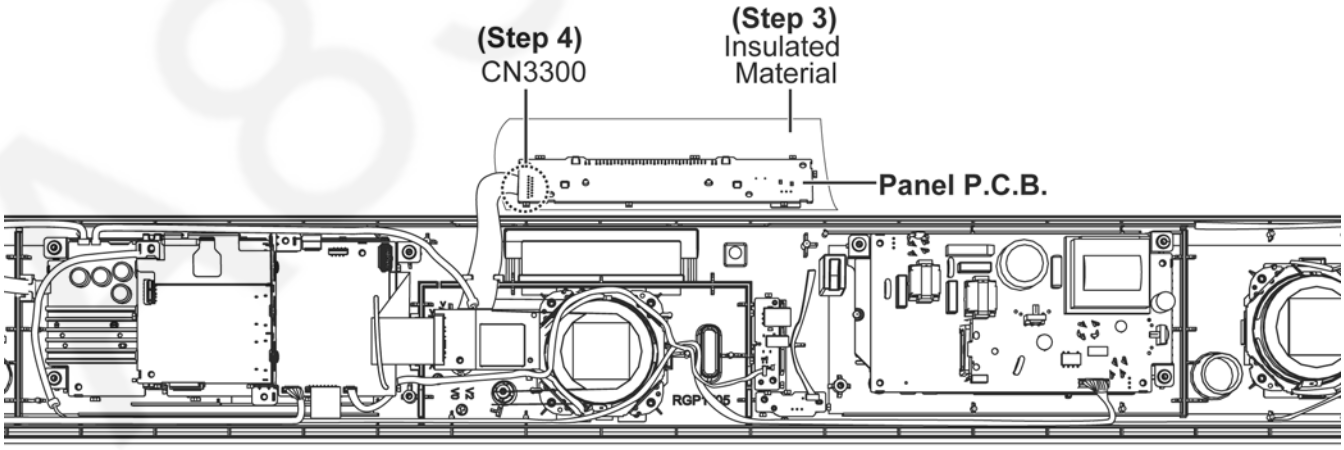
9.1.1. Checking SMPS P.C.B.

Step 1 : Remove Rear Cabinet Block.
Step 2 : Remove SMPS P.C.B..
Step 3 : Place support block at both sides of Front Cabinet Block.
Step 4 : Place SMPS P.C.B. on an insulated material.
Step 5 : Connect 7P wire to connector (CN1) on SMPS P.C.B..
Step 6 : SMPS P.C.B. can be checked as diagram shown.



9.1.2. Checking Panel P.C.B.

Step 1 : Remove Rear Cabinet Block.
Step 2 : Remove Panel P.C.B..
Step 3 : Place Panel P.C.B. on an insulated material.
Step 4 : Connect 15P FFC to connector (CN3300) on Panel P.C.B..
Step 5 : Panel P.C.B. can be checked as diagram shown.



9.2. Active Subwoofer (SB-HWA880)

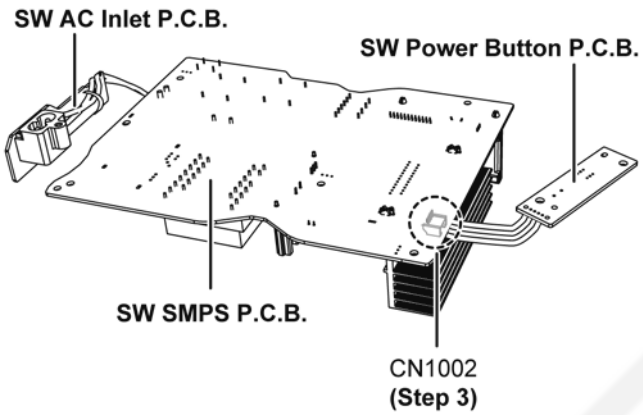
Note: For description of the disassembly procedures, see the Section 8.6

9.2.1. Checking SW SMPS P.C.B. & SW AC Inlet P.C.B.

Step 1 : Remove SW Power Button P.C.B..

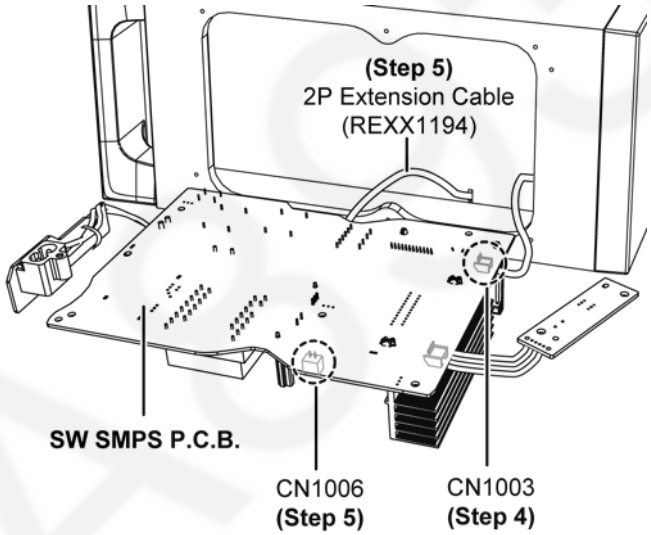
Step 2 : Remove SW SMPS P.C.B. and SW AC Inlet P.C.B..

Step 3 : Connect SW Power Button P.C.B. to SW SMPS P.C.B..

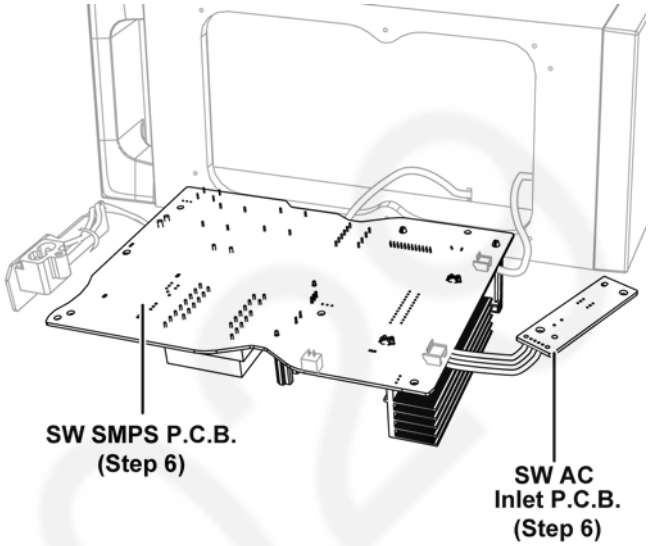


Step 4 : Attach 3P Wire at the connector (CN1003) on SW SMPS P.C.B..

Step 5 : Attach 2P Extension Cable (REXX1194) from the Speaker Cable to connector (CN1006) on SW SMPS P.C.B..



Step 6 : Check SW SMPS P.C.B. & SW AC Inlet P.C.B.according to the diagram shown.

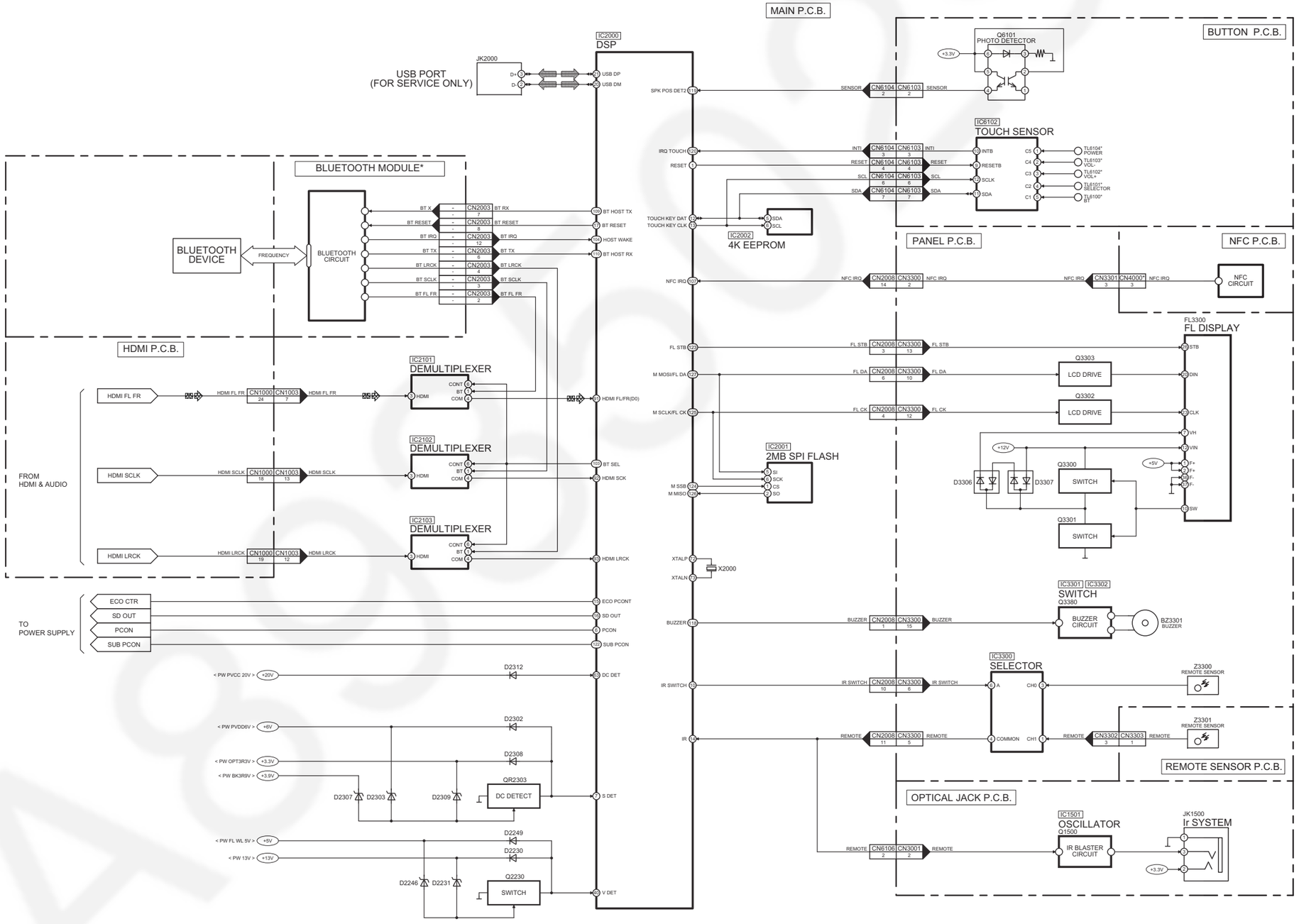


10 Block Diagram

10.1. Main Unit (SU-HTB885)

10.1.1. SYSTEM CONTROL BLOCK DIAGRAM

: AUDIO OUTPUT SIGNAL LINE

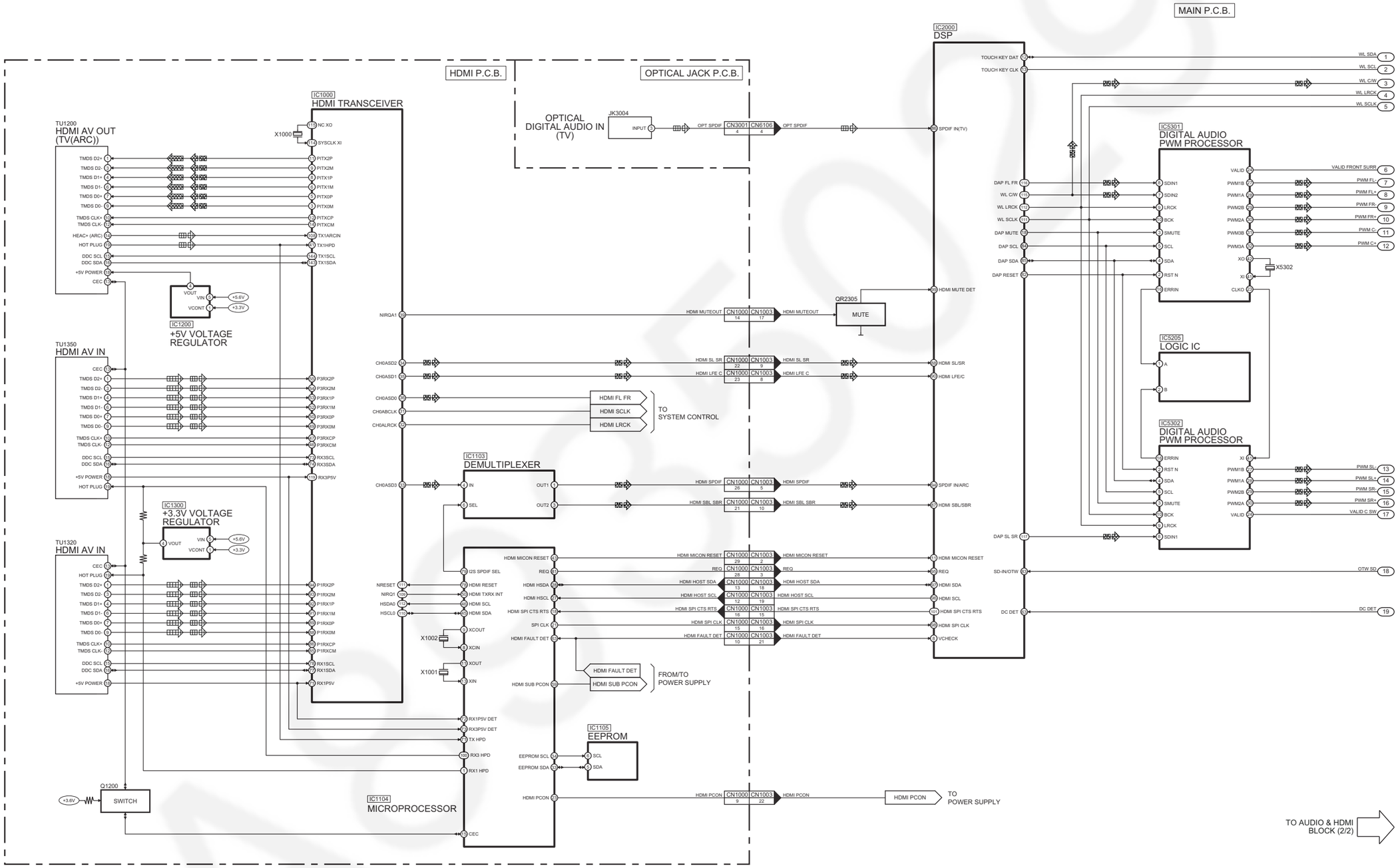


NOTE: “ * ” REF IS FOR INDICATION ONLY

SC-HTB885EB/EG(SU-HTB885EB/EG) SYSTEM CONTROL BLOCK DIAGRAM

10.1.2. HDMI & AUDIO (1/2) BLOCK DIAGRAM

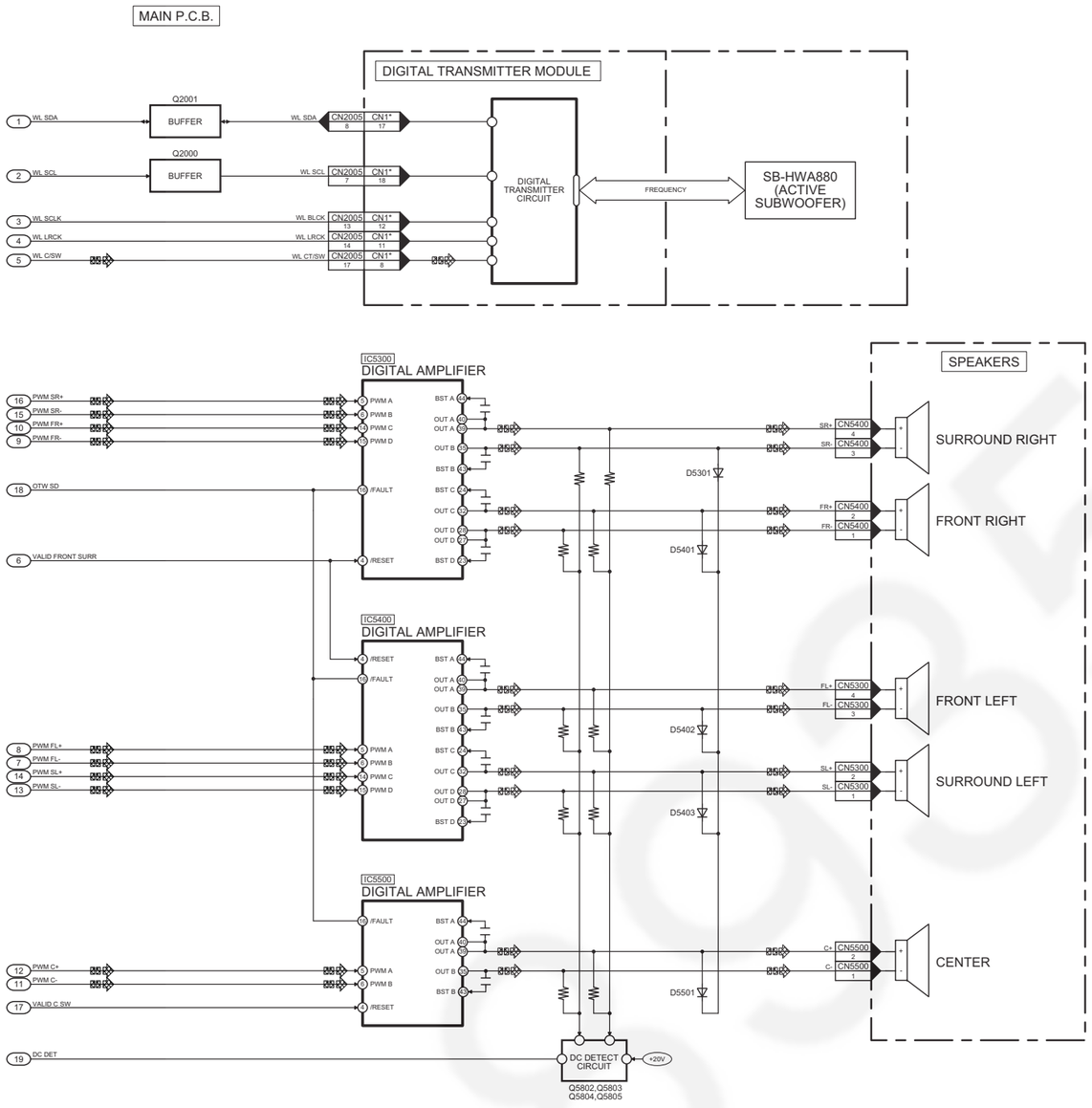
: HDMI/OPTICAL AUDIO INPUT SIGNAL LINE : HDMI VIDEO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : VIDEO OUTPUT SIGNAL LINE



SC-HTB885EB/EG(SU-HTB885EB/EG) HDMI & AUDIO (1/2) BLOCK DIAGRAM

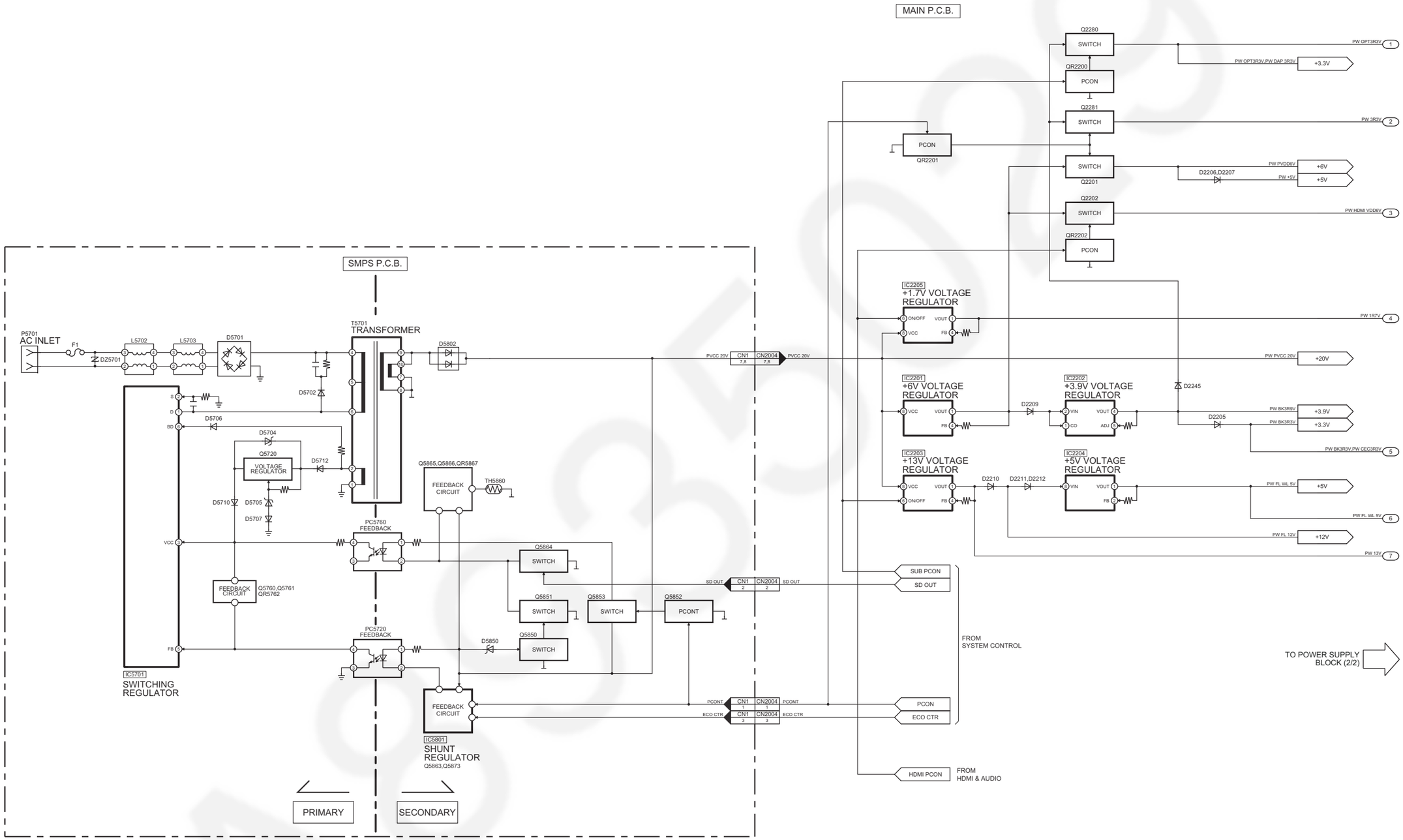
10.1.3. HDMI & AUDIO (2/2) BLOCK DIAGRAM

: HDMI/OPTICAL AUDIO INPUT SIGNAL LINE : HDMI VIDEO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : VIDEO OUTPUT SIGNAL LINE



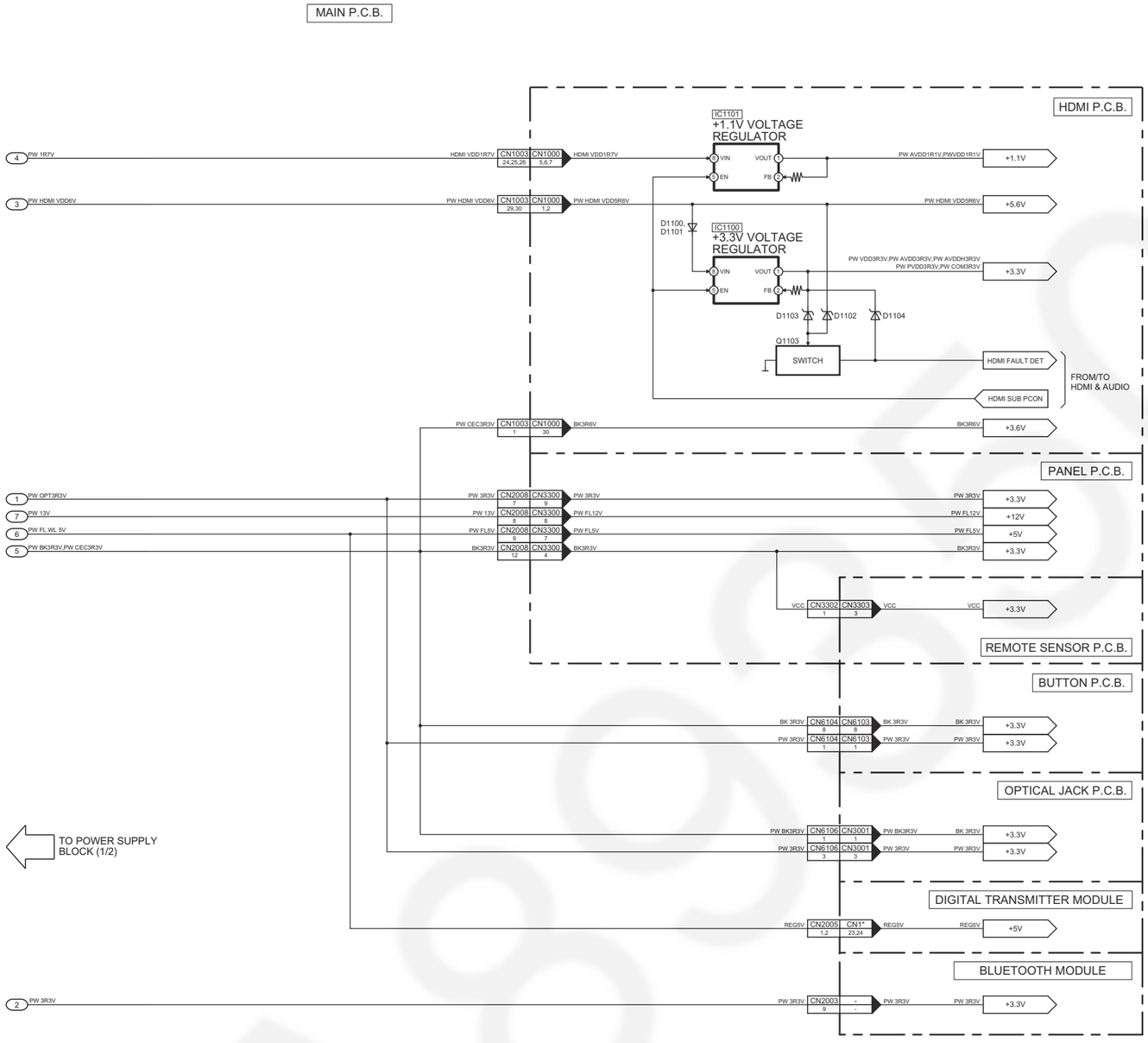
NOTE: " * " REF IS FOR INDICATION ONLY

10.1.4. POWER SUPPLY (1/2) BLOCK DIAGRAM



SC-HTB885EB/EG(SU-HTB885EB/EG) POWER SUPPLY (1/2) BLOCK DIAGRAM

10.1.5. POWER SUPPLY (2/2) BLOCK DIAGRAM



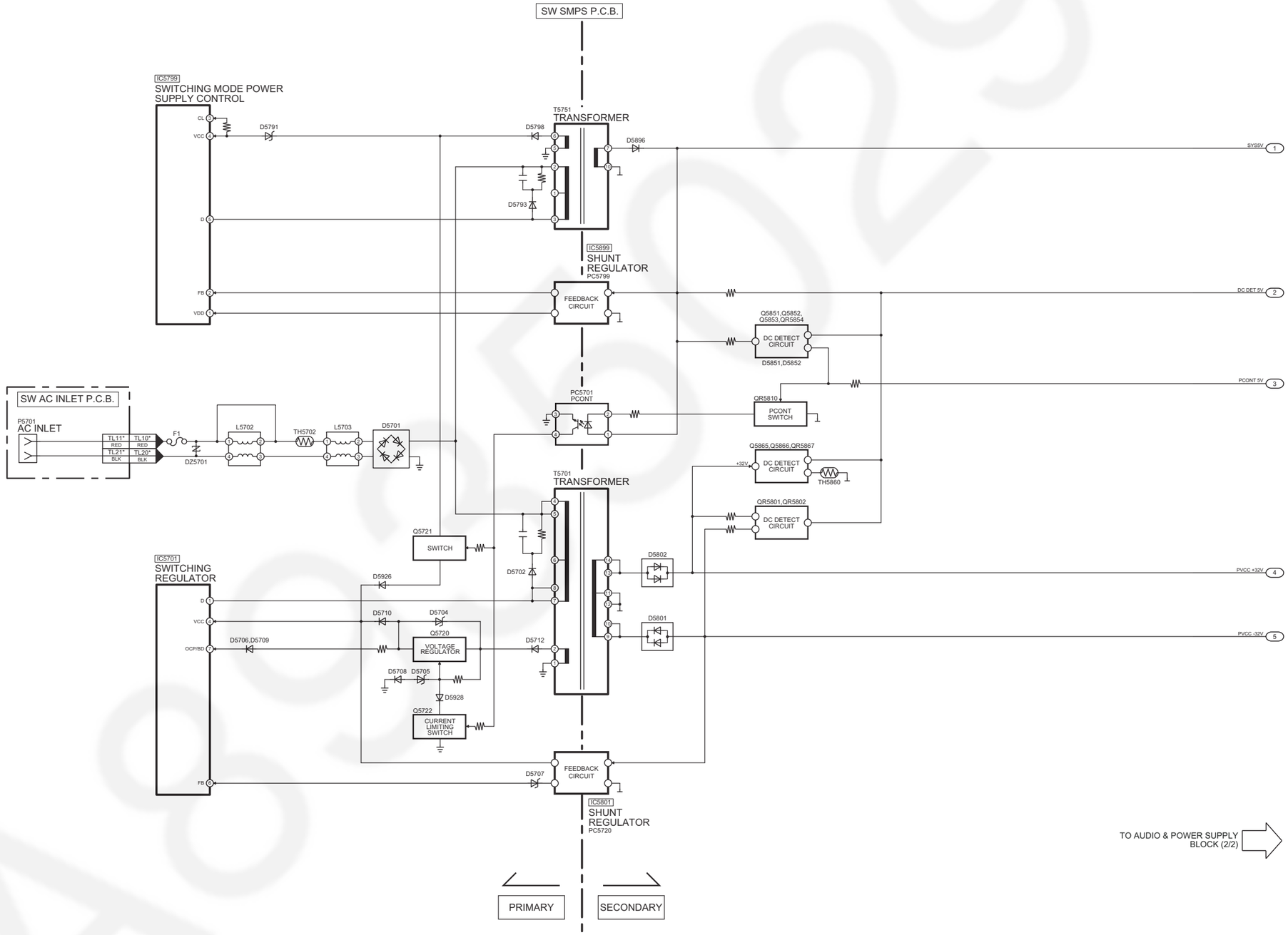
NOTE: " * " REF IS FOR INDICATION ONLY

SC-HTB885EB/EG(SU-HTB885EB/EG) POWER SUPPLY (2/2) BLOCK DIAGRAM

10.2. Active Subwoofer (SB-HWA880)

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

: AUDIO OUTPUT SIGNAL LINE

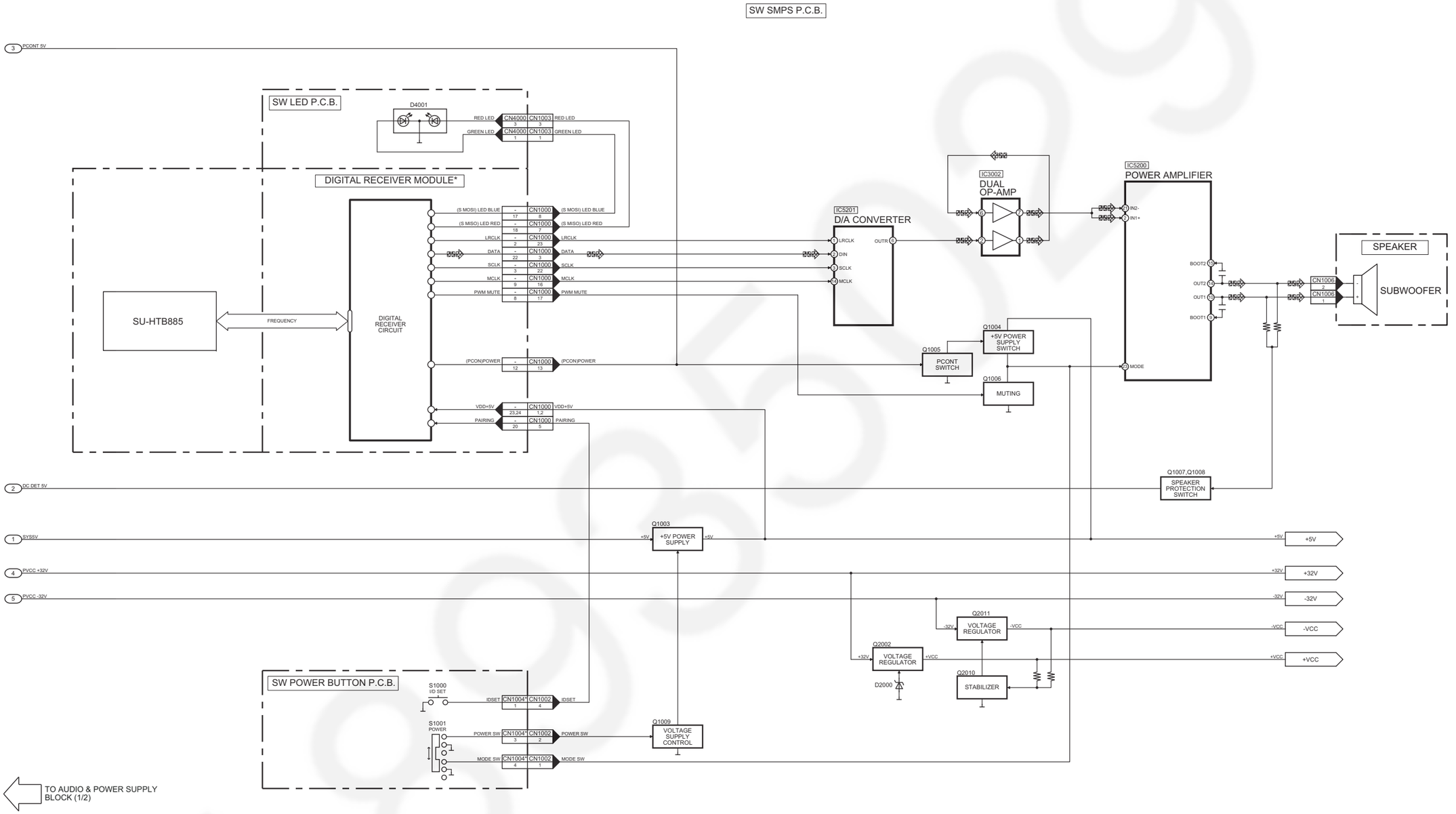


NOTE: " * " REF IS FOR INDICATION ONLY

SC-HTB885EB/EG(SB-HWA880EB/EG) AUDIO & POWER SUPPLY (1/2) BLOCK DIAGRAM

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

: AUDIO OUTPUT SIGNAL LINE

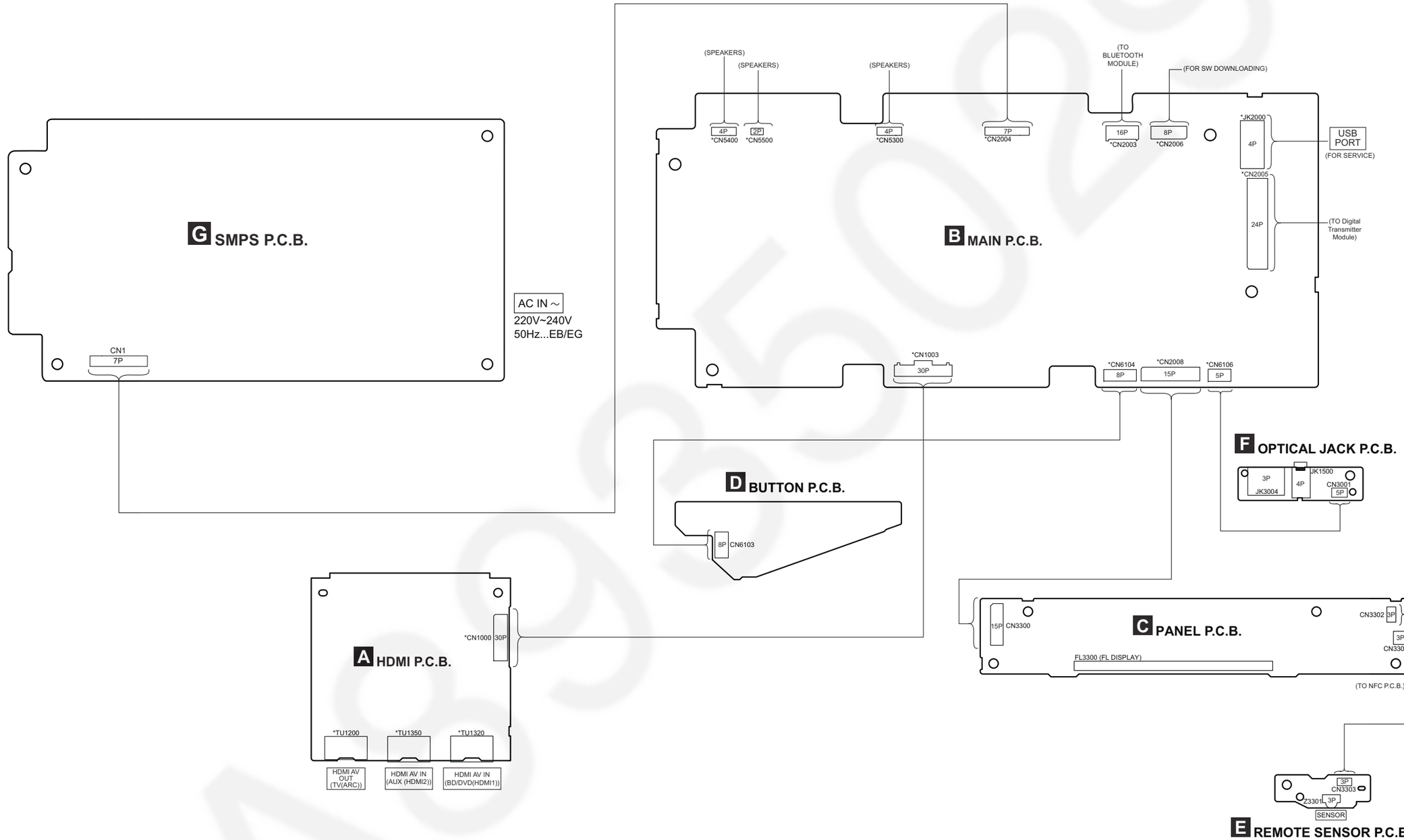


NOTE: " * " REF IS FOR INDICATION ONLY

SC-HTB885EB/EG(SB-HWA880EB/EG) AUDIO & POWER SUPPLY (2/2) BLOCK DIAGRAM

11 Wiring Connection Diagram

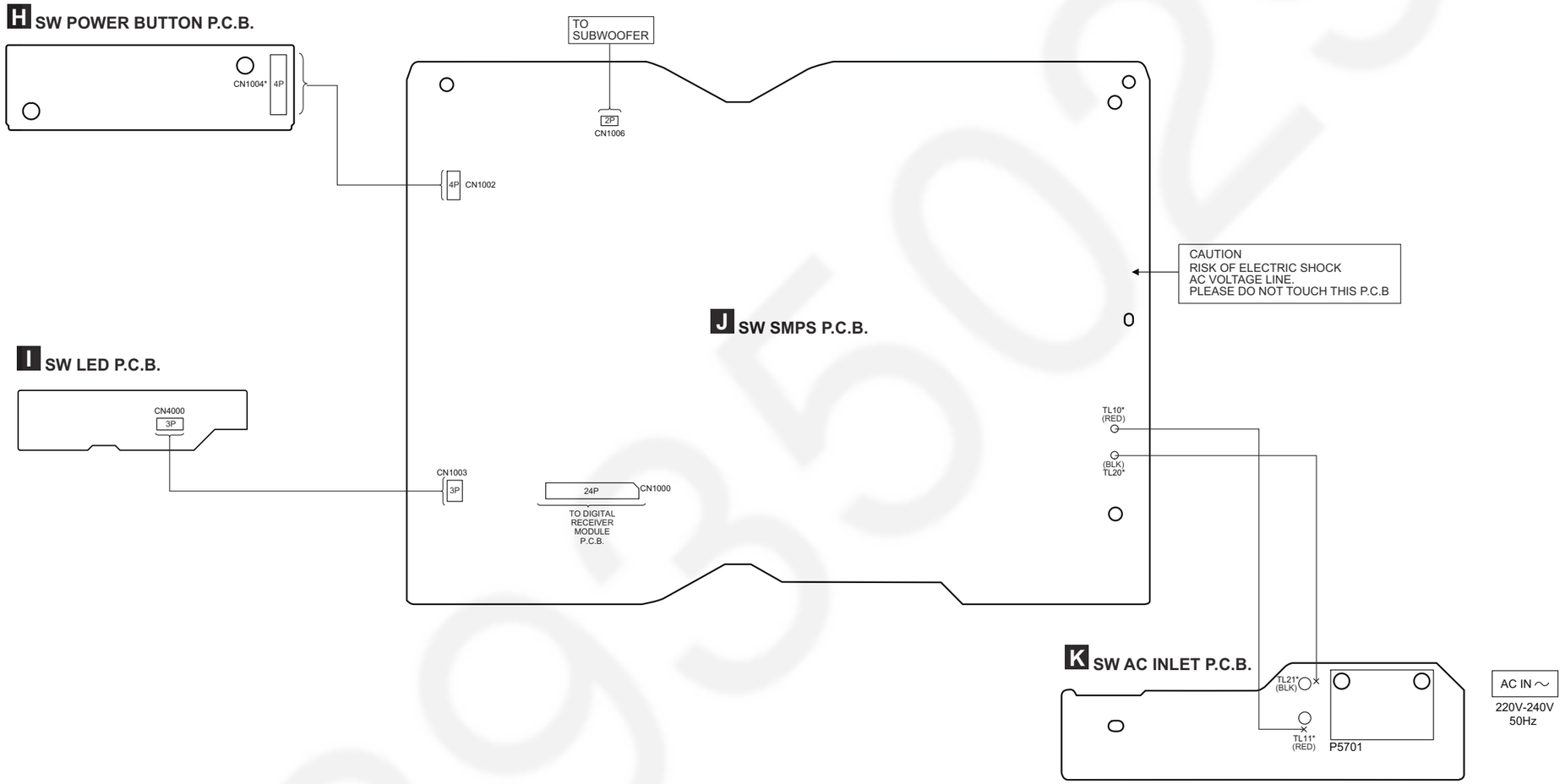
11.1. Main Unit (SU-HTB885)



Note : “ * ” REF IS FOR INDICATION ONLY.

SC-HTB885EB/EG (SU-HTB885EB/EG)
WIRING CONNECTION DIAGRAM

11.2. Active Subwoofer (SB-HWA880)



Note : " * " REF IS FOR INDICATION ONLY.

SC-HTB885EB/EG (SB-HWA880EB/EG)
WIRING CONNECTION DIAGRAM

12 Schematic Diagram

12.1. Schematic Diagram Notes

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

Notes:

Active Subwoofer (SB-HWA880)

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

  : HDMI/Optical/Bluetooth Audio Input Signal Line

  : HDMI Video Input Signal Line

  : Audio Output Signal Line

  : Video Output Signal Line

  : 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.

12.2. Main Unit (SU-HTB885)

12.2.1. PANEL CIRCUIT

SCHEMATIC DIAGRAM - 1

C PANEL CIRCUIT

—— : +B SIGNAL LINE

IC3300 C0JBAR000606 SELECTOR

Z3300 REMOTE SENSOR

CN3302 — TO E REMOTE SENSOR CIRCUIT (CN3303) IN SCHEMATIC DIAGRAM - 2

Q3380 B1ABBE000003 SWITCH

IC3302 C0JBAC000363 SWITCH

IC3301 C0JBAC000363 SWITCH

BZ3301 BUZZER

CN3301 — TO NFC P.C.B.

CN3300 — TO MAIN CIRCUIT (CN2008)

FL3300 A2BB00000189 FL DISPLAY

Q3302 B1CFGD000002 LCD DRIVE

Q3303 B1CFGD000002 LCD DRIVE

Q3300 B1ABCF000176 SWITCH

Q3301 B1ADCE000012 SWITCH

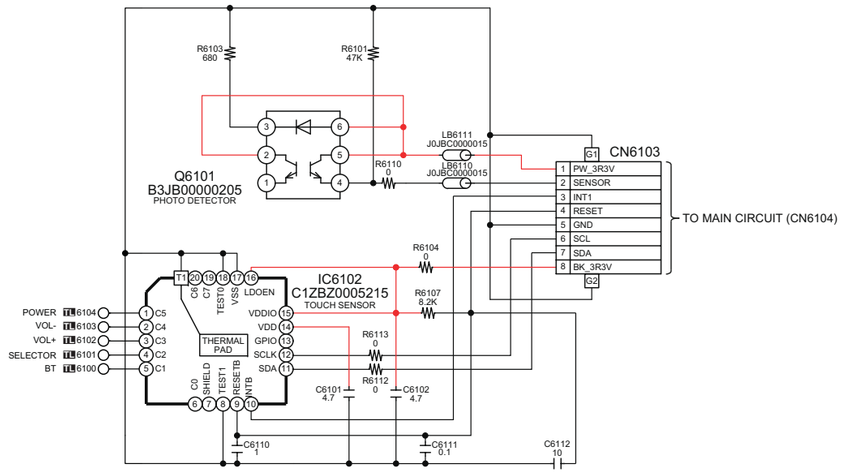
SC-HTB885EB/EG (SU-HTB885EB/EG) PANEL CIRCUIT

12.2.2. BUTTON & REMOTE SENSOR CIRCUIT

SCHEMATIC DIAGRAM - 2

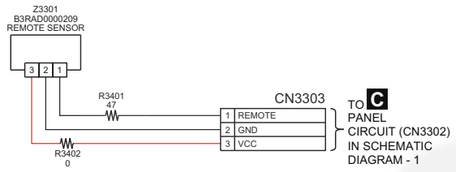
D BUTTON CIRCUIT

—— : +B SIGNAL LINE



E REMOTE SENSOR CIRCUIT

—— : +B SIGNAL LINE



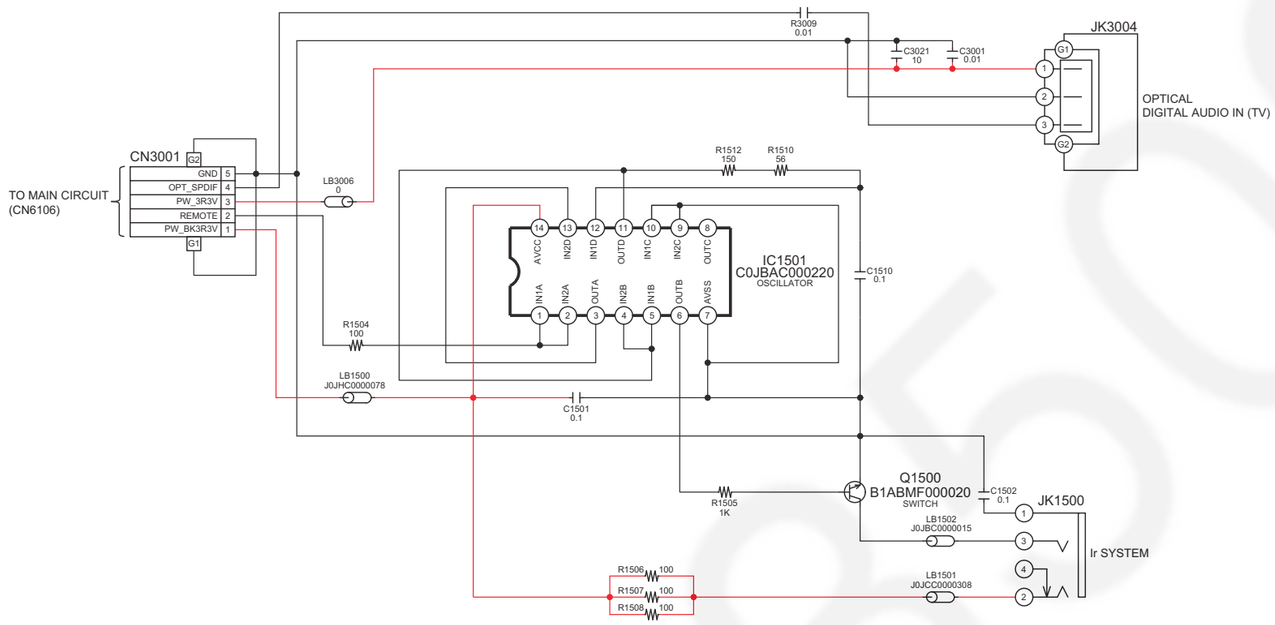
SC-HTB885EB/EG (SU-HTB885EB/EG) BUTTON / REMOTE SENSOR CIRCUIT

12.2.3. OPTICAL JACK CIRCUIT

SCHEMATIC DIAGRAM - 3

F OPTICAL JACK CIRCUIT

—— : +B SIGNAL LINE



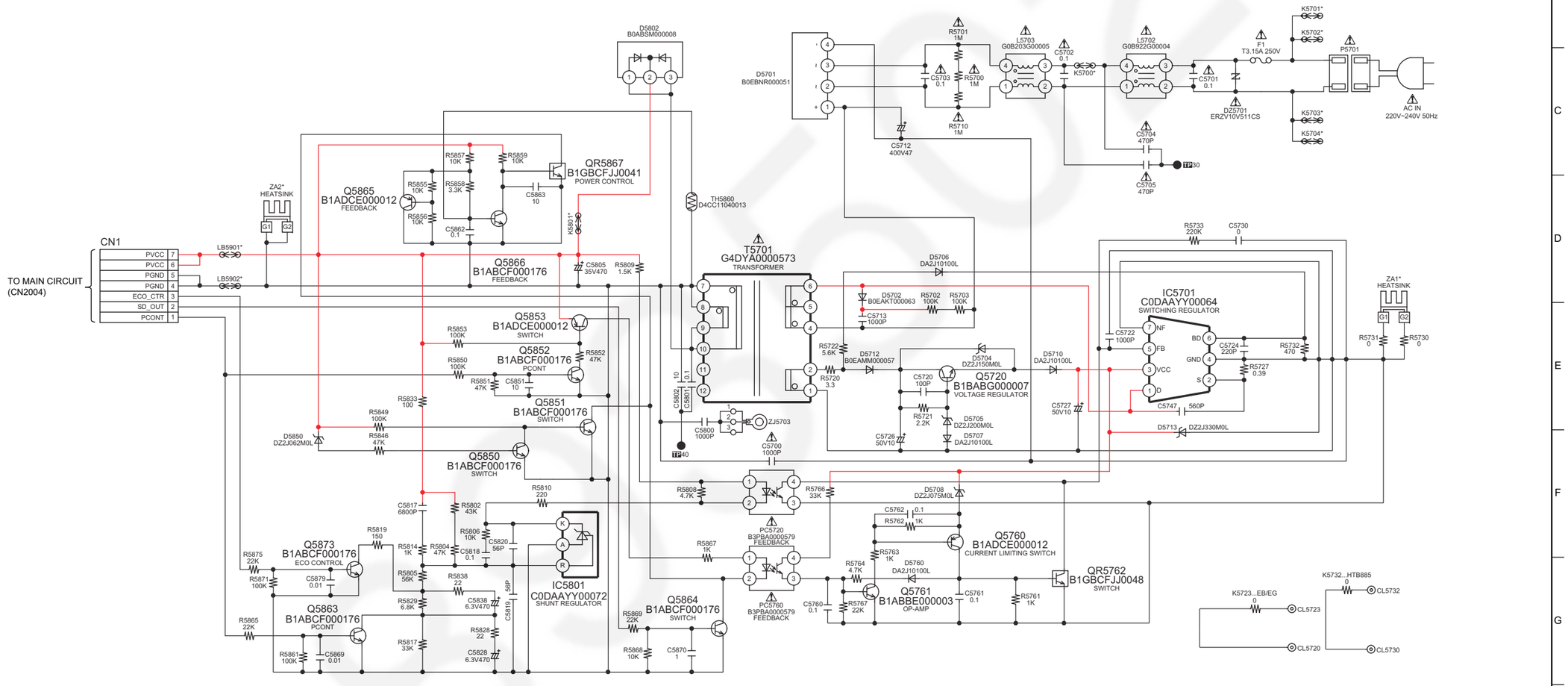
SC-HTB885EB/EG (SU-HTB885EB/EG) OPTICAL JACK CIRCUIT

12.2.4. SMPS CIRCUIT

SCHEMATIC DIAGRAM - 4

G SMPS CIRCUIT

—— : +B SIGNAL LINE



NOTE: " * " REF IS FOR INDICATION ONLY

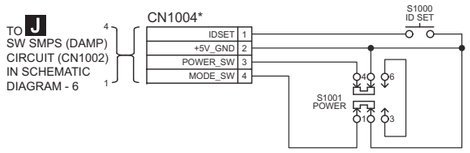
SC-HTB885EB/EG (SU-HTB885EB/EG) SMPS CIRCUIT

12.3. Active Subwoofer (SB-HWA880)

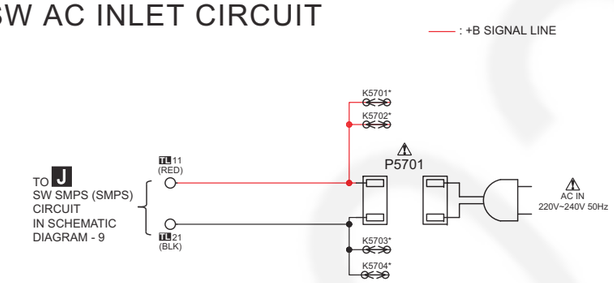
12.3.1. SW POWER BUTTON, SW LED & SW AC INLET CIRCUIT

SCHEMATIC DIAGRAM - 5

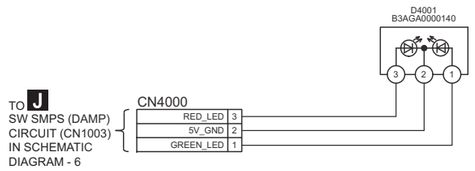
H SW POWER BUTTON CIRCUIT



K SW AC INLET CIRCUIT



I SW LED CIRCUIT



NOTE: " * " REF IS FOR INDICATION ONLY

SC-HTB885EB/EG (SB-HWA880EB/EG) SW POWER BUTTON / SW LED / SW AC INLET CIRCUIT

12.3.2. SW SMPS (DAMP) CIRCUIT (1/2)

SCHEMATIC DIAGRAM - 6

J SW SMPS (DAMP) CIRCUIT

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

PVCC_+32V
PVCC_-32V
PGND
DGND
PCONT_5V
DC_DET_5V
SYS_5V

Q2002 B1AAKD000012 +16V VOLTAGE REGULATOR
R2000 22
R2004 33K
C2000 0.1
R2005 27
D2000 B0BC01600013
Q2010 B1ADCE000012 SWITCH
R2006 10K
R2013 8.2K
R2014 560
R2012 33K
C2011 0.1
R2010 22
Q2011 B1ACKD000006 SWITCH
R3107 6.8K
R3108 6.8K
C3106 100P
C3105 0.068
C2006 1
R5769 1.2K
+VCC
-VCC
IC3002 C0ABBB000244 BUFFER
C5618 0.022
R3204 10K
C2015 1
C5615 0.01
R5773 10K
R3206 10K

Q1003 B1ACKD000006 +5V POWER SUPPLY
R5770 10K
R1020 1K
Q1009 B1GBCFJJ0051 VOLTAGE SUPPLY CONTROL
Q1004 B1ADCE000012 MUTING SWITCH
R1016 150K
R1007 10K
R1009 4.7K
R1008 10K
Q1005 B1GBCFJJ0051 MUTING CONTROL
Q1006 B1GBCFGG0030 MUTING CONTROL

TO H SW POWER BUTTON CIRCUIT (CN1004*) IN SCHEMATIC DIAGRAM - 5
CN1002: IDSET 4, +5V_GND 3, POWER_SW 2, MODE_SW 1

TO I SW LED CIRCUIT (CN4000) IN SCHEMATIC DIAGRAM - 5
CN1003: GREEN_LED 1, 5V_GND 2, RED_LED 3

TO RX MODULE P.C.B.
CN1000: (VDD)+5V 1, (VDD)+5V 2, DATA 3, PWM_PDN 4, PAIRING 5, RESET 6, (S_MISO)LED RED 7, (S_MOSI)LED BLUE 8, I2C_SCL_M 9, I2C_SDA_M 10, AMP_OTW 11, DGND 12, (PCON)POWER 13, PWM_RESET 14, AMP_SD 15, MCLK 16, PWM_MUTE 17, SYSTEM PROTECT 18, LINK 19, NC 20, NC 21, SCLK 22, LRCLK 23, AGND 24

R5781 100
R5782 100
C5605 0.1
C5606 0.1
C5607 0.1
C5608 0.1
C5609 0.1
C5610 0.1
C5611 0.1
C5612 0.1
C5613 0.1
R5778 0
C5603 0.1
C1009 6.3V680
R5776 0
R5777 0
R5779 0
R5774 10K
R5775 10K
C5622 10V22
C5623 10
C5617 0.1
IC5201 C0FBBY000124 STEREO DAC
MCLK, FORMAT, DEEMPH, NC, MUTE, OUTL, VDD, LRCLK, DIN, SCLK, NC, CAP, OUTR, GND
C5621 10V22
C5619 0.1
C5620 10

TO SW SMPS (DAMP) CIRCUIT (2/2)

SM: SW SMPS (SMPS) : SCHEMATIC DIAGRAM - 8 ~ 9

NOTE: " * " REF IS FOR INDICATION ONLY

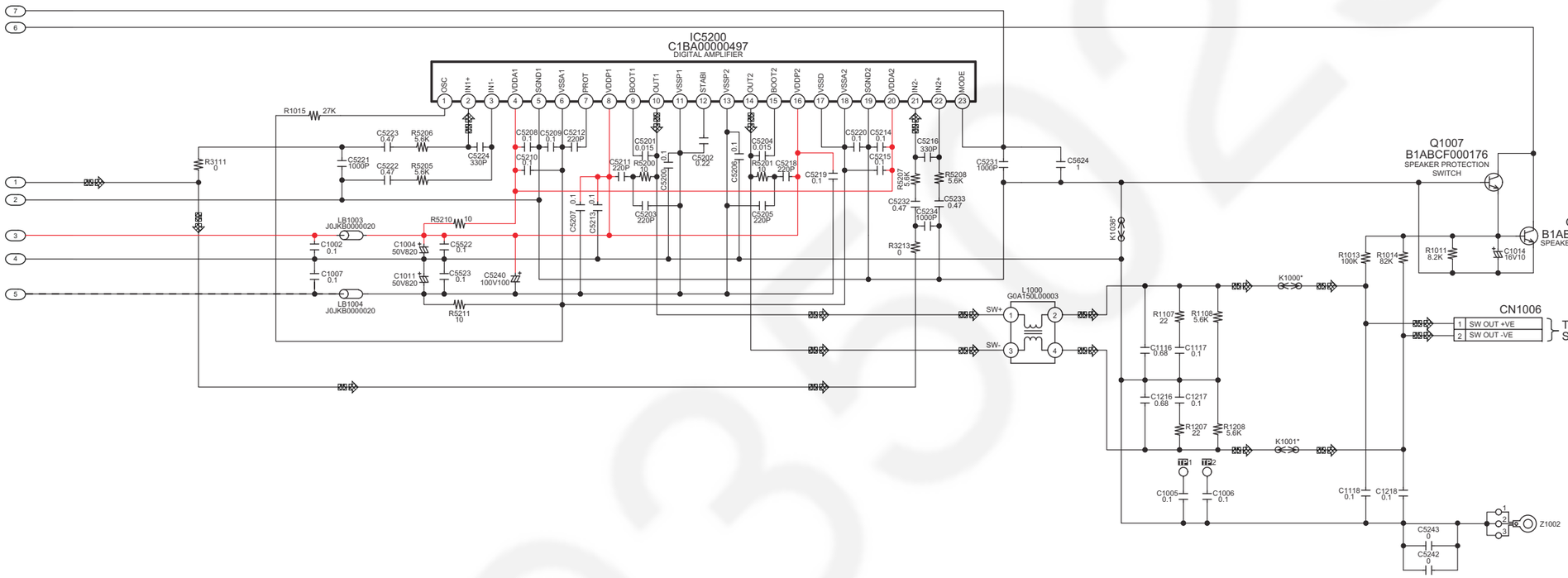
1/2 2/2 SC-HTB885EB/EG (SB-HWA880EB/EG) SW SMPS (DAMP) CIRCUIT

12.3.3. SW SMPS (DAMP) CIRCUIT (2/2)

SCHEMATIC DIAGRAM - 7

J SW SMPS (DAMP) CIRCUIT

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



TO SW SMPS (DAMP) CIRCUIT (1/2)

NOTE: " * " REF IS FOR INDICATION ONLY

1/2 | 2/2 SC-HTB885EB/EG (SB-HWA880EB/EG) SW SMPS (DAMP) CIRCUIT

12.3.4. SW SMPS (SMPS) CIRCUIT (1/2)

SCHEMATIC DIAGRAM - 8

J SW SMPS (SMPS) CIRCUIT

: +B SIGNAL LINE : -B SIGNAL LINE

K5737..EB/EG K5723..EB/EG 0 CL5723

PC5799 B3PBA0000579 FEEDBACK

R5894 150
R5890 2.2K
R5896 2.2K

D5896 B0EAMM000057

IC5899 C0DBZMC00006 SHUNT REGULATOR
R5895 15K
R5893 30K
C5899 10V220
C5898 0.1
R5892 3K
R5891 33K

T5751 G4DYA0000592 TRANSFORMER

R5798 22
D5798 B0EAMM000057
C5798 50V10
D5793 B0HAMP000094
R5786 220K
C5790 2200P
D5791 DZZJ100M0L
C5795 1000P
R5795 470K
R5797 15K
C5796 0.1
C5794 1

IC5799 MIP2F20MSSCF SWITCHING MODE POWER SUPPLY CONTROL

C5700 1000P

TO SW SMPS (SMPS) CIRCUIT (2/2)

P1

S
VIN
DRAIN
FB
VCC
OCP/BD
GND

T5701 G4DYA0000485 TRANSFORMER

D5801 B0ABSM000008
D5802 B0ABSM000008

QR5867 B1GBCFJJ0041 SWITCH
R5857 10K
R5855 10K
R5858 6.19K
R5856 10K
R5859 10K
C5862 0.1
C5863 10

Q5865 B1ADCE000012 SWITCH
Q5866 B1ABCF000176 SWITCH

C5805 50V820
TH5860 D4CC11040013
C5808 50V820

C5713 0.01
D5702 B0ZAZ0000089
R5703 100K
R5702 100K

D5704 DZ2J200M0L
Q5720 B1BABG000007 VOLTAGE REGULATOR
R5720 22
D5712 B0EAMM000057
R5721 10K
C5720 100P
D5928 DA2J10100L
D5705 DZ2J200M0L
D5708 DA2J10100L
C5728 1000P
Q5722 B1ABCF000231 CURRENT LIMITTING SWITCH

R5724 120
Q5721 B1ADCE000022 SWITCH
D5926 B0EAKM000117
R5723 1K
D5710 B0ECBR000001
R5722 2.4K
D5706 DA2J10100L
D5709 DA2J10100L
C5721 220P
C5722 270P

ZJ5703
C5800 0.01
C5706 1000P

PC5720 B3PBA0000579 FEEDBACK
R5809 1.5K
R5808 4.7K
R5730 1K
D5707 DZ2J062M0L
PC5701 B3PBA0000579 FEEDBACK
R5729 10K
R5728 100K

PVCC_+32V
PVCC_-32V
PGND
DC_DET_5V
SYS_5V
DGND
PCONT_5V

R5811 0

R5833 0
C5817 0.1
R5802 12K
C5802 0.1
R5814 8.2K
R5803 22K
R5804 22K
R5805 2.2K
R5806 22K
C5818 4700P
C5820 56P
C5819 56P
R5810 2.20

IC5801 C0DABYY00011 SHUNT REGULATOR

R5801 22K
R5840 82K
QR5801 B1GBCFJN0038 SWITCH
QR5802 B1GDCFGA0018 SWITCH
R5800 18K
R5841 120K

R5862 22K
R5863 22K
R5864 27K
C5851 0.1
QR5810 B1GBCFLL0037 PCONT SWITCH
R5817 680
R5851 10K
Q5851 B1ADCE000012 SWITCH
R5861 10K
D5852 DA2J10100L
C5854 0.1
QR5854 B1GBCFJJ0048 SWITCH
R5852 10K
R5853 10K
C5852 0.1
Q5852 B1ABBE000003 SWITCH
D5851 DA2J10100L
R5854 4.7K
C5853 0.1
R5860 22K
Q5853 B1ABBE000003 SWITCH

DA: SW SMPS (DAMP) : SCHEMATIC DIAGRAM - 6 ~ 7

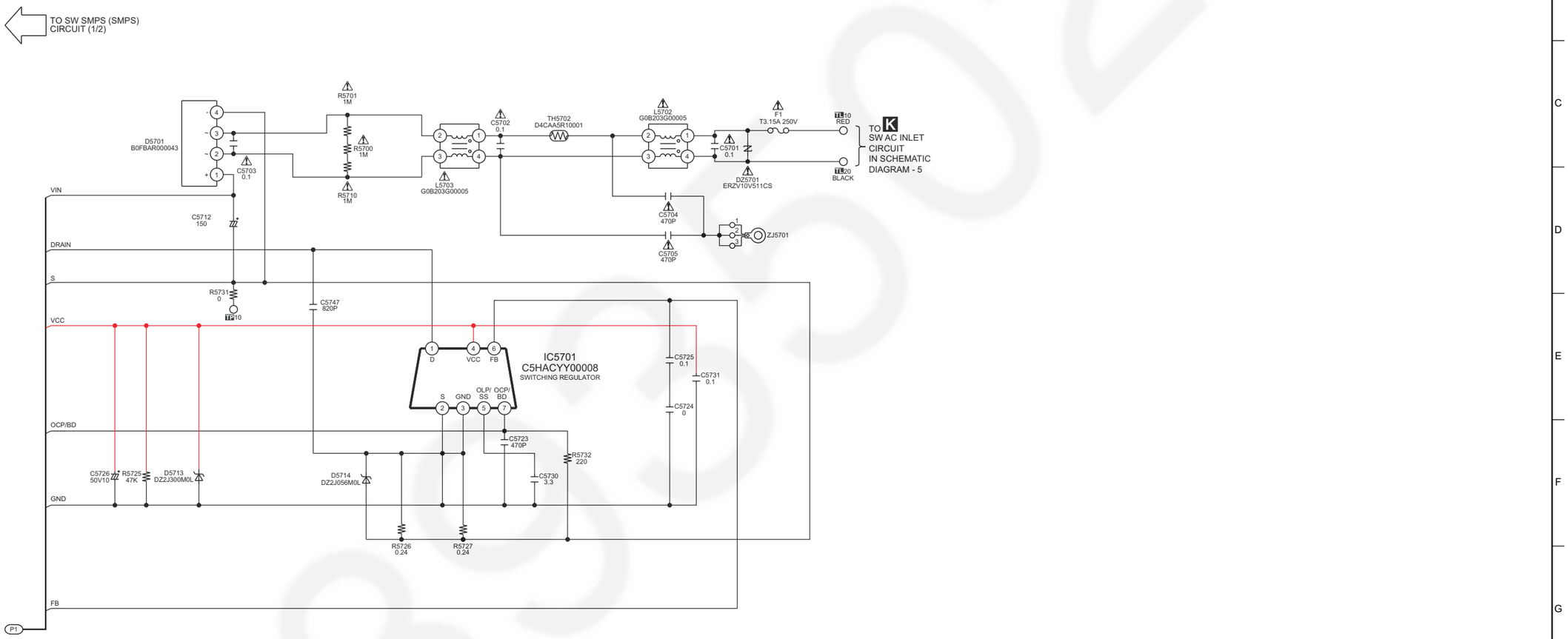
1/2 2/2 SC-HTB885EB/EG (SB-HWA880EB/EG) SW SMPS (SMPS) CIRCUIT

12.3.5. SW SMPS (SMPS) CIRCUIT (2/2)

SCHEMATIC DIAGRAM - 9

J SW SMPS (SMPS) CIRCUIT

—— : +B SIGNAL LINE



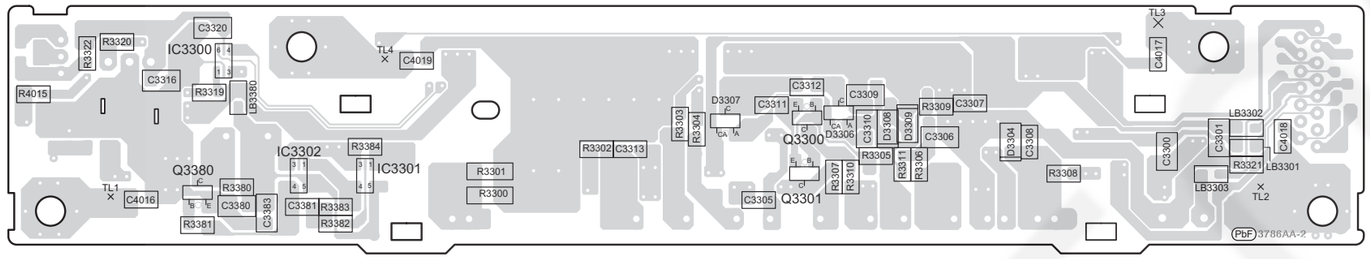
1/2 2/2 SC-HTB885EB/EG (SB-HWA880EB/EG) SW SMPS (SMPS) CIRCUIT

13 Printed Circuit Board

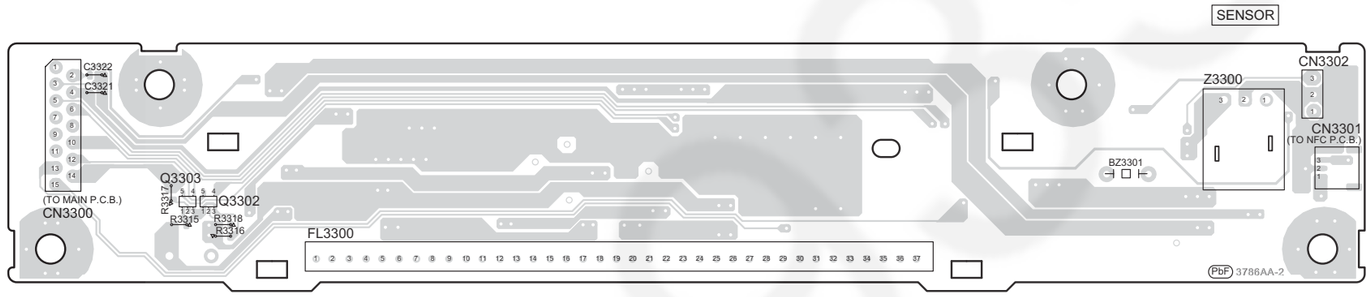
13.1. Main Unit (SU-HTB885)

13.1.1. PANEL P.C.B.

C PANEL P.C.B. (REP5077FA)



(SIDE A)

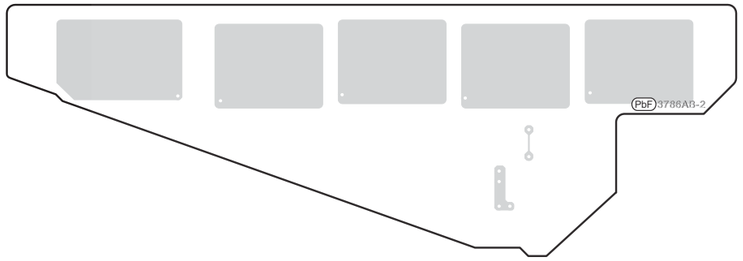


(SIDE B)

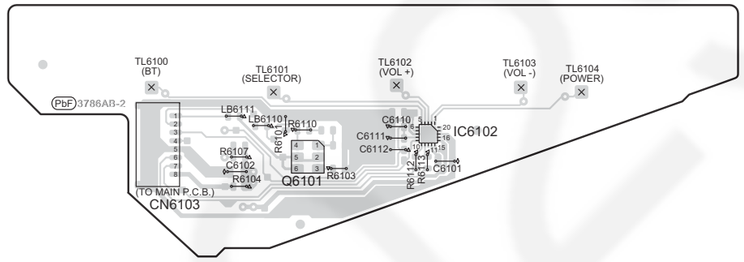
SC-HTB885EB/EG (SU-HTB885EB/EG)
PANEL P.C.B.

13.1.2. BUTTON, REMOTE SENSOR & OPTICAL JACK P.C.B.

D BUTTON P.C.B. (REP5077FB)

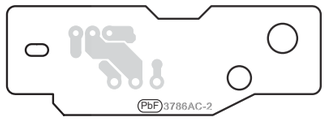


(SIDE A)

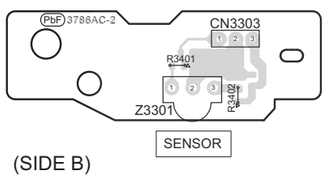


(SIDE B)

E REMOTE SENSOR P.C.B. (REP5077FC)

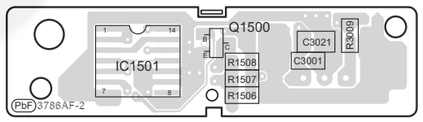


(SIDE A)

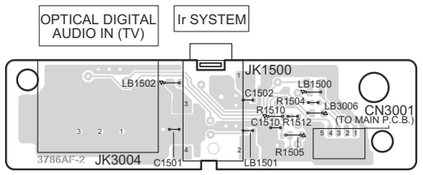


(SIDE B)

F OPTICAL JACK P.C.B. (REP5077FF)



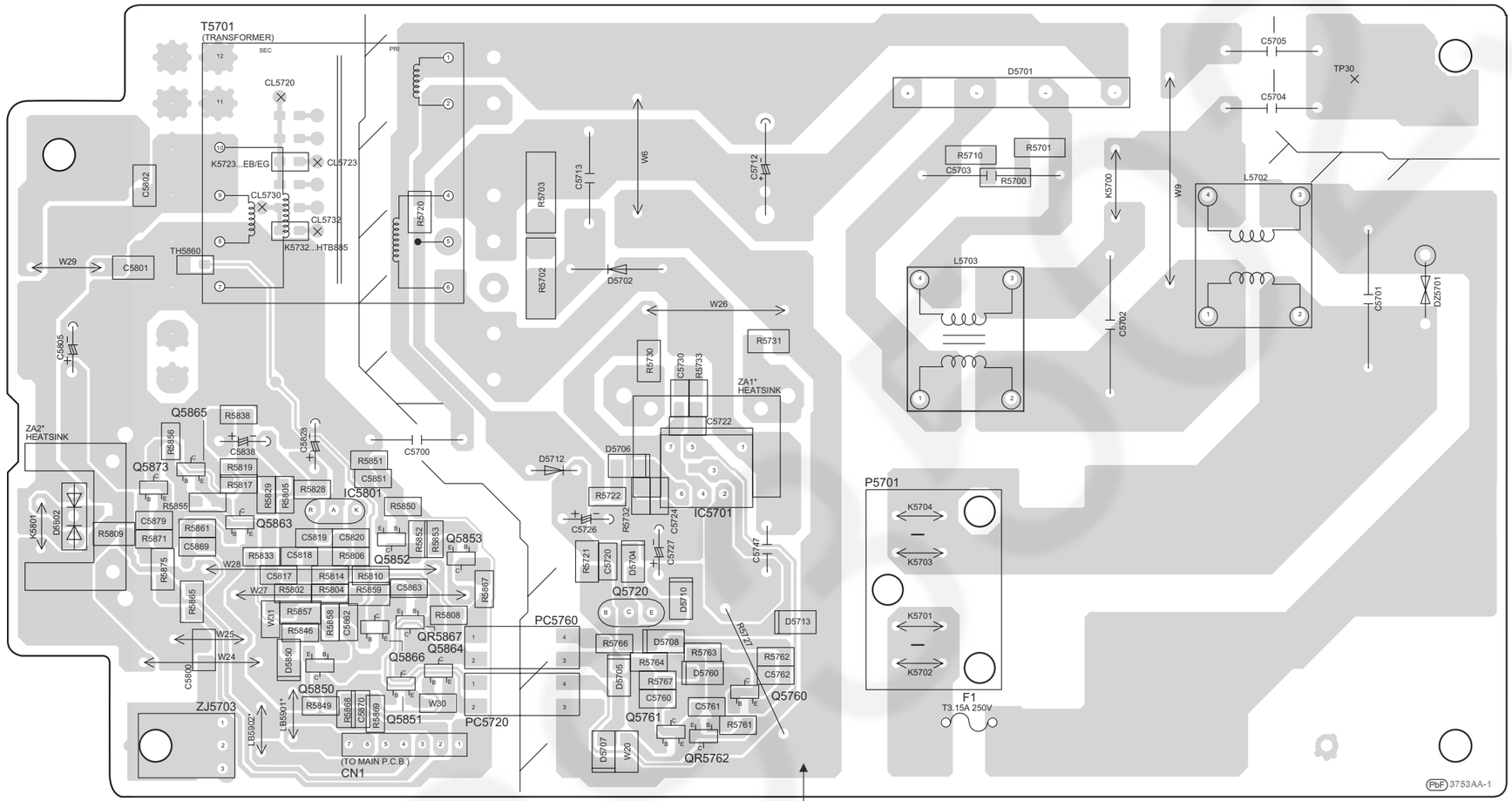
(SIDE A)



(SIDE B)

13.1.3. SMPS P.C.B.

G SMPS P.C.B. (REP5073CA)



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

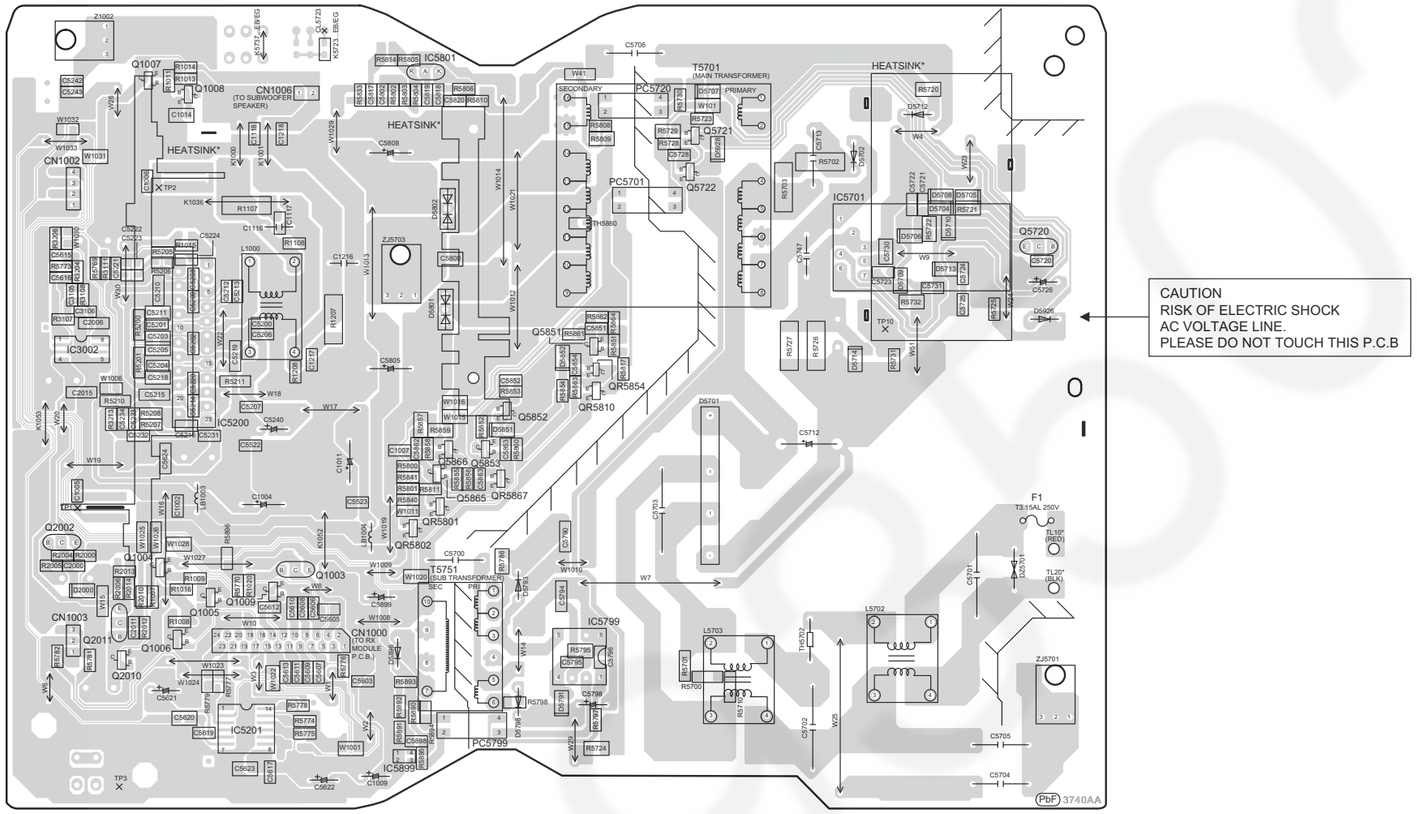
NOTE: " * " REF IS FOR INDICATION ONLY

SC-HTB885EB/EG (SU-HTB885EB/EG)
SMPS P.C.B.

13.2. Active Subwoofer (SB-HWA880)

13.2.1. SW SMPS P.C.B.

J SW SMPS P.C.B. (REP5036CA)

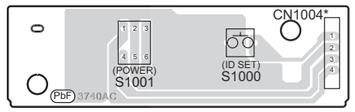


NOTE: " * " REF IS FOR INDICATION ONLY

SC-HTB885EB/EG (SB-HWA880EB/EG)
SW SMPS P.C.B.

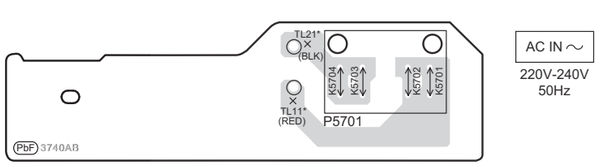
13.2.2. SW POWER BUTTON, SW AC INLET & SW LED P.C.B.

H SW POWER BUTTON P.C.B. (REP5036CC)



I SW LED P.C.B. (REP5036CD)

K SW AC INLET P.C.B. (REP5036CA)



AC IN ~
220V-240V
50Hz

NOTE: " * " REF IS FOR INDICATION ONLY

SC-HTB885EB/EG (SB-HWA880EB/EG)
SW POWER BUTTON / SW LED / SW AC INLET P.C.B.

14 Voltage Measurement

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.

14.1. Main Unit (SU-HTB885)

14.1.1. PANEL P.C.B./BUTTON P.C.B./OPTICAL JACK P.C.B.

REF NO.	IC3300																			
MODE	1	2	3	4	5	6														
POWER	3.4	0	3.4	3.4	3.4	3.4														
STANDBY	3.4	0	3.4	3.4	3.4	3.4														

REF NO.	IC3301																			
MODE	1	2	3	4	5															
PLAY	0	3	0	3.3	3.3															
STANDBY	0	3	0	3.3	3.3															

REF NO.	IC3302																			
MODE	1	2	3	4	5															
PLAY	3.3	3.3	0	0	3.3															
STANDBY	3.3	3.3	0	0	3.3															

REF NO.	Q3300				Q3301				Q3302						Q3303					
MODE	E	C	B		E	C	B		1	2	3	4	5		1	2	3	4	5	
PLAY	5.9	12.7	5.8		5.9	0	5.8		5	0	5	0	0		5	1.7	5	1.7	1.7	
STANDBY	5.9	12.7	5.8		5.9	0	5.8		5	0	5	0	0		5	1.7	5	1.7	1.7	

SC-HTB885EB/EG (SU-HTB885EB/EG) PANEL P.C.B.

REF NO.	IC6102																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0	3.3	3.3	3.3	3.3	0	1.8	3.3	3.3	0	0	0.2	0.2
STANDBY	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0	3.3	3.3	3.3	3.3	0	1.8	3.3	3.3	0	0	0.2	0.2

REF NO.	Q6101																			
MODE	1	2	3	4	5	6														
PLAY	0	3.3	2.2	3.1	3.3	3.3														
STANDBY	0	3.3	2.2	3.1	3.3	3.3														

SC-HTB885EB/EG (SU-HTB885EB/EG) BUTTON P.C.B.

REF NO.	IC1501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
PLAY	3.3	3.3	0	3.3	3.3	0	0	3.3	0	0	3.3	3.3	0	3.3						
STANDBY	3.3	3.3	0	3.3	3.3	0	0	3.3	0	0	3.3	3.3	0	3.3						

REF NO.	Q1500																			
MODE	E	C	B																	
PLAY	0	1.4	0																	
STANDBY	0	1.4	0																	

SC-HTB885EB/EG (SU-HTB885EB/EG) OPTICAL JACK P.C.B.

14.1.2. SMPS P.C.B.

REF NO.	IC5701																			
MODE	1	2	3	4	5	6	7													
POWER	166.6	0	14.4	0	2.1	0.4	0													
STANDBY	166.6	0	14.4	0	2.1	0.4	0													

REF NO.	IC5801																			
MODE	K	A	R																	
POWER	28.6	0	2.5																	
STANDBY	16.0	0	2.5																	

REF NO.	Q5720				Q5760				Q5761				Q5850				Q5851			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
POWER	20.6	21.0	20.0		20.0	0	20.0		0	20.0	0		0	0.9	0		0	3.5	0	
STANDBY	20.6	21.0	20.0		20.0	0	20.0		0	20.0	0		0	0.9	0		0	3.5	0	

REF NO.	Q5852				Q5853				Q5863				Q5864				Q5865			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
PLAY	0	0	0.6		30.6	30.6	29.9		0	0	0.6		0	29.9	0					
STANDBY	0	0	0.6		30.6	30.6	29.9		0	0	0.6		0	29.9	0					

REF NO.	Q5866				Q5873				QR5762				QR5867							
MODE	E	C	B		E	C	B		E	C	B		E	C	B					
PLAY	0	0	0.6		0	0.5	0		0	2.1	0		0	19.5	0					
STANDBY	0	0	0.6		0	0.5	0		0	2.1	0		0	19.5	0					

SC-HTB885EB/EG (SU-HTB885EB/EG) SMPS P.C.B.

14.2. Active Subwoofer (SB-HWA880)

14.2.1. SW SMPS P.C.B.(1/2)

REF NO.	IC3002																		
MODE	1	2	3	4	5	6	7	8											
PLAY	1.0	1.0	0	-14.2	0	1.0	1.0	15.4											
STANDBY	1.0	1.0	0	-14.2	0	1.0	1.0	15.4											

REF NO.	IC5200																		
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	2.5	0	0	21.8	0	-22.1	-13.7	22.1	8.9	18.3	-22.4	-12.2	-22.4	18.3	8.9	22.1	-22.1	-22.1	0	21.8
STANDBY	2.5	0	0	21.8	0	-22.1	-13.7	22.1	8.9	18.3	-22.4	-12.2	-22.4	18.3	8.9	22.1	-22.1	-22.1	0	21.8

REF NO.	IC5200																		
MODE	21	22	23																
PLAY	0	0	4.2																
STANDBY	0	0	4.2																

REF NO.	IC5201																		
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14					
PLAY	1.7	0	1.7	0	2.5	2.5	0	5	2.5	0	0	0.4	5	1.6					
STANDBY	1.7	0	1.7	0	2.5	2.5	0	5	2.5	0	0	0.4	5	1.6					

REF NO.	IC5701																		
MODE	1	2	3	4	5	6	7												
PLAY	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.	IC5799																		
MODE	1	2	3	4	5	6	7	8											
PLAY	5.9	0.9	2.4	11.4	161	0	0	0											
STANDBY	5.9	0.9	2.4	11.4	161	0	0	0											

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

REF NO.	IC5899																		
MODE	1	2	3	4															
PLAY	0	0	4	2.5															
STANDBY	0	0	4	2.5															

REF NO.	Q1003				Q1004				Q1005				Q1006				Q1007			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
PLAY	5	5	4.3		5	5	4.3		0	0	2.8		0	4.2	0		0	6.9	0	
STANDBY	5	5	4.3		5	5	4.3		0	0	2.8		0	4.2	0		0	6.9	0	

REF NO.	Q1008				Q1009				Q2002				Q2010				Q2011			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
PLAY	0	6.9	0		0	0	2.1		15.4	21.9	16		0	16.4	23.0		-14.2	-22.2	16.4	
STANDBY	0	6.9	0		0	0	2.1		15.4	21.9	16		0	16.4	23.0		-14.2	-22.2	16.4	

REF NO.	Q5720				Q5721				Q5722				Q5851				Q5852			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
PLAY	20.6	21.0	20.0		20.1	20	19.3		0	21.3	0		5	0	5		0	0	0.7	
STANDBY	20.6	21.0	20.0		20.1	20	19.3		0	21.3	0		5	0	5		0	0	0.7	

REF NO.	Q5853				Q5865				Q5866				QR5801				QR5802			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
PLAY	0	5	0		1.2	0	0.6		0	0	0.6		0	4.2	-2.9		0	4.2	6.1	
STANDBY	0	5	0		1.2	0	0.6		0	0	0.6		0	4.2	-2.9		0	4.2	6.1	

SC-HTB885EB/EG (SB-HWA880EB/EG) SW SMPS P.C.B.

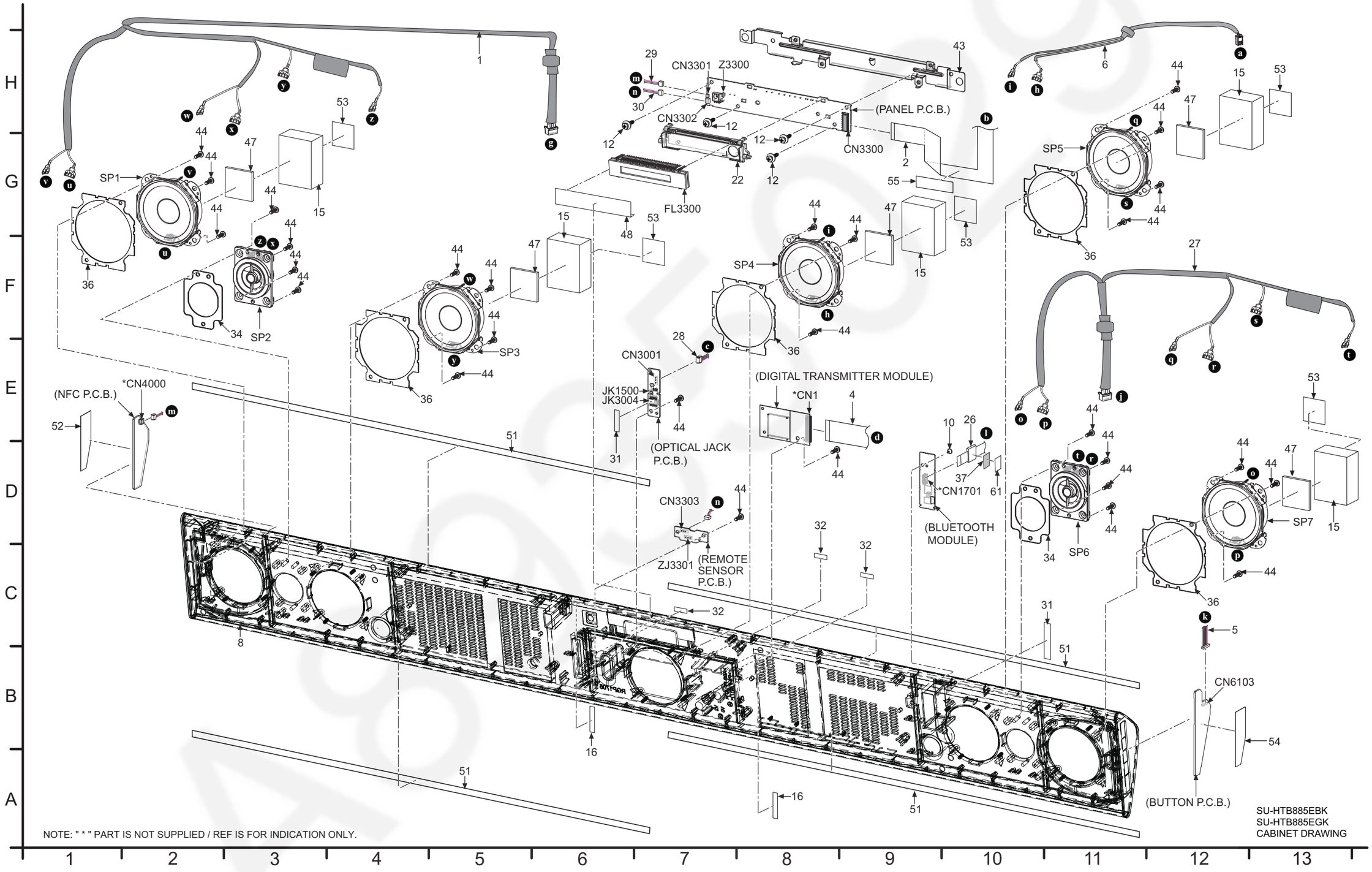
14.2.2. SW SMPS P.C.B.(2/2)

REF NO.	QR5810				QR5854				QR5867											
MODE	E	C	B		E	C	B		E	C	B									
PLAY	0	0.1	2		0	2	0		0	3.5	0									
STANDBY	0	0.1	2		0	2	0		0	3.5	0									

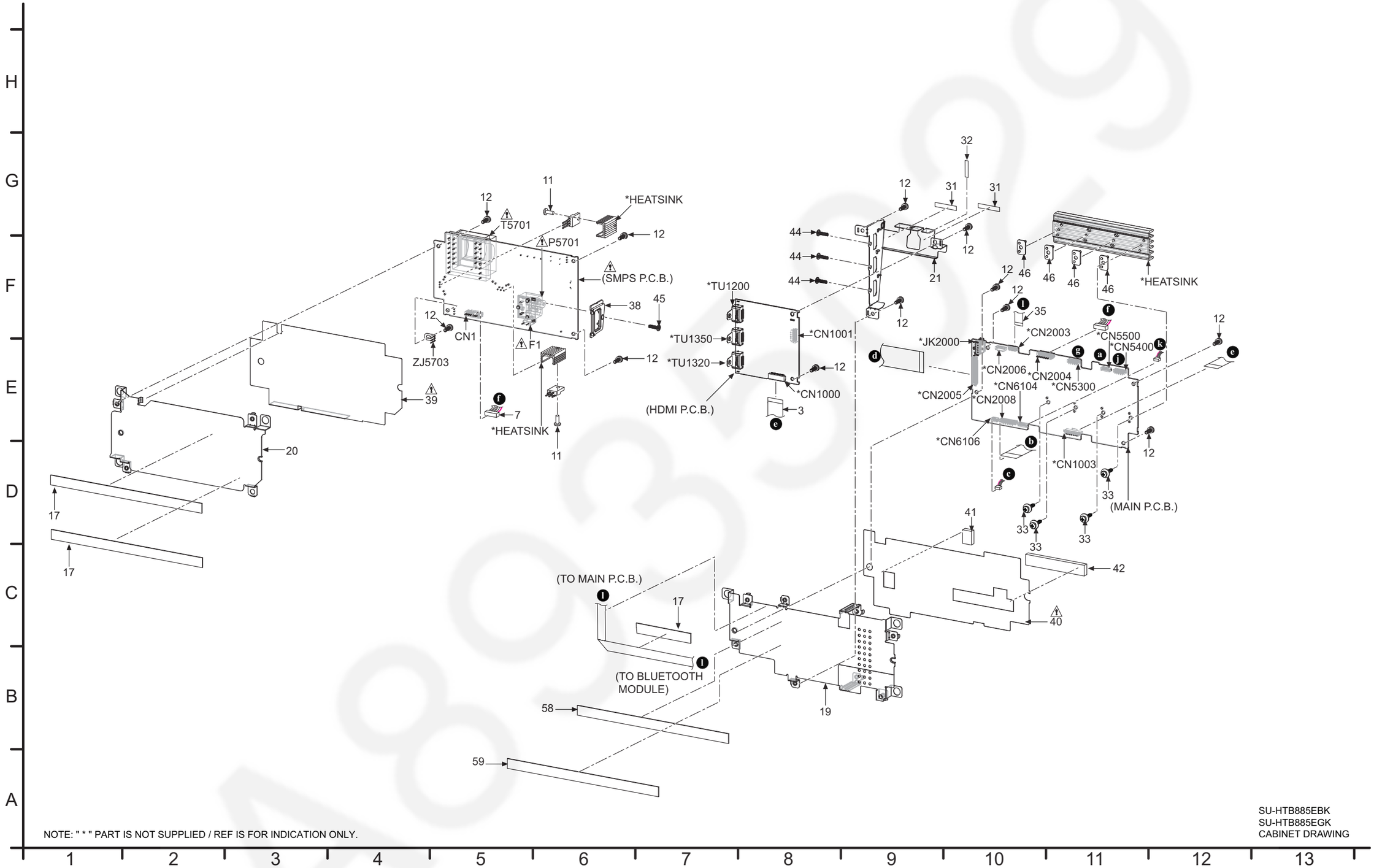
SC-HTB885EB/EG (SB-HWA880EB/EG) SW SMPS P.C.B.

15 Exploded View and Replacement Parts List

15.1. Cabinet Parts Location-1 (SU-HTB885)



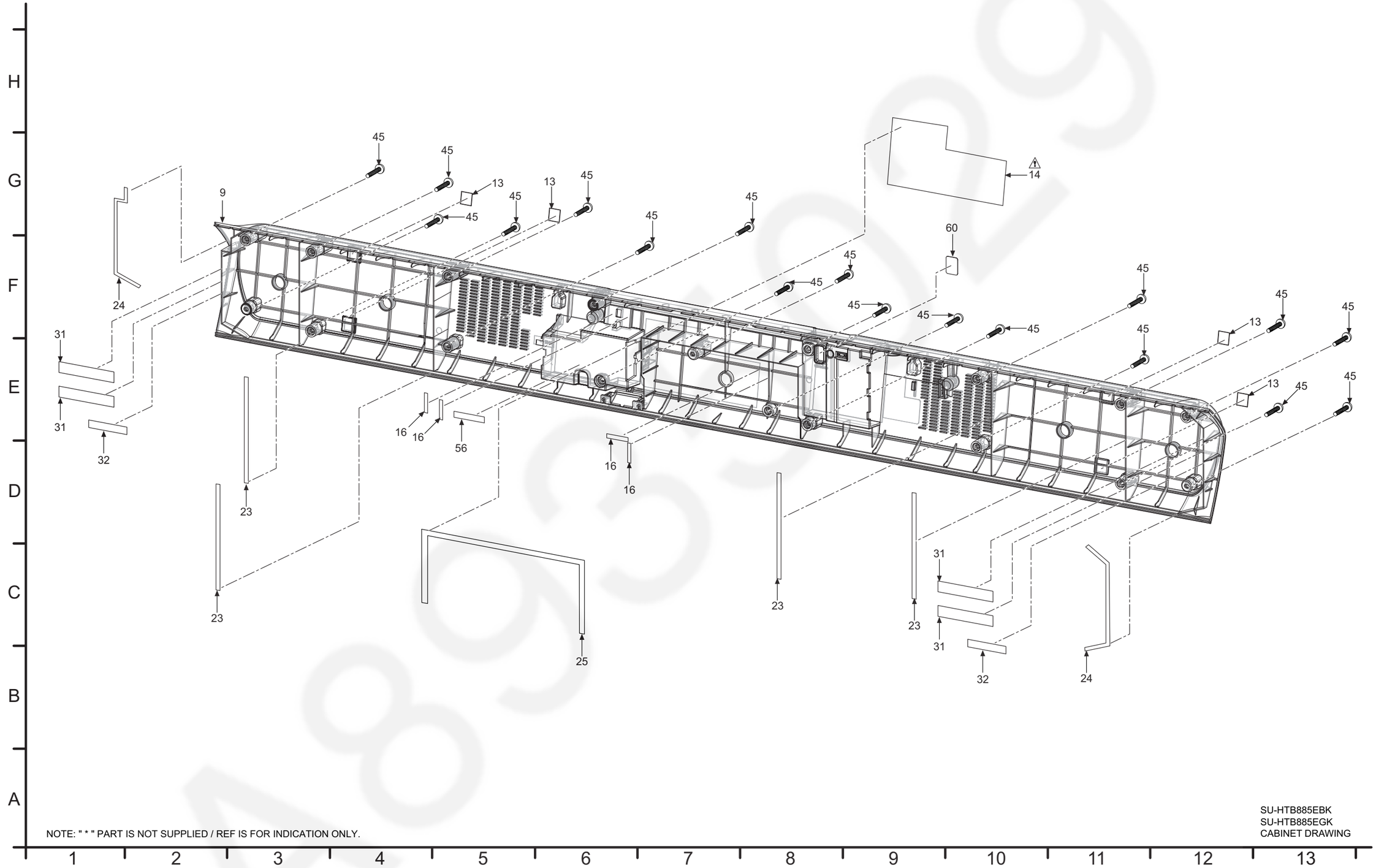
15.2. Cabinet Parts Location-2 (SU-HTB885)



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

SU-HTB885EBK
SU-HTB885EGK
CABINET DRAWING

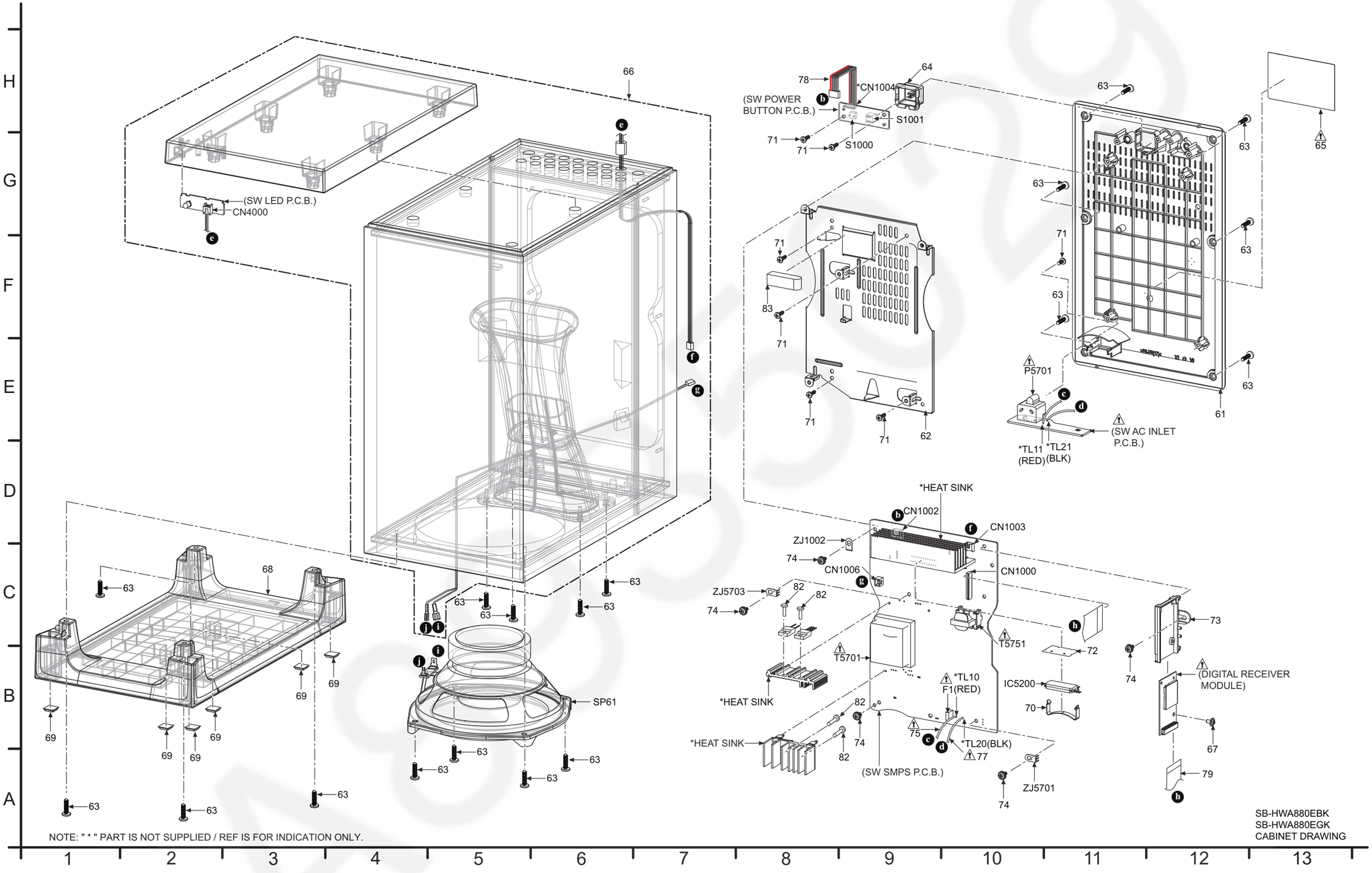
15.3. Cabinet Parts Location-3 (SU-HTB885)



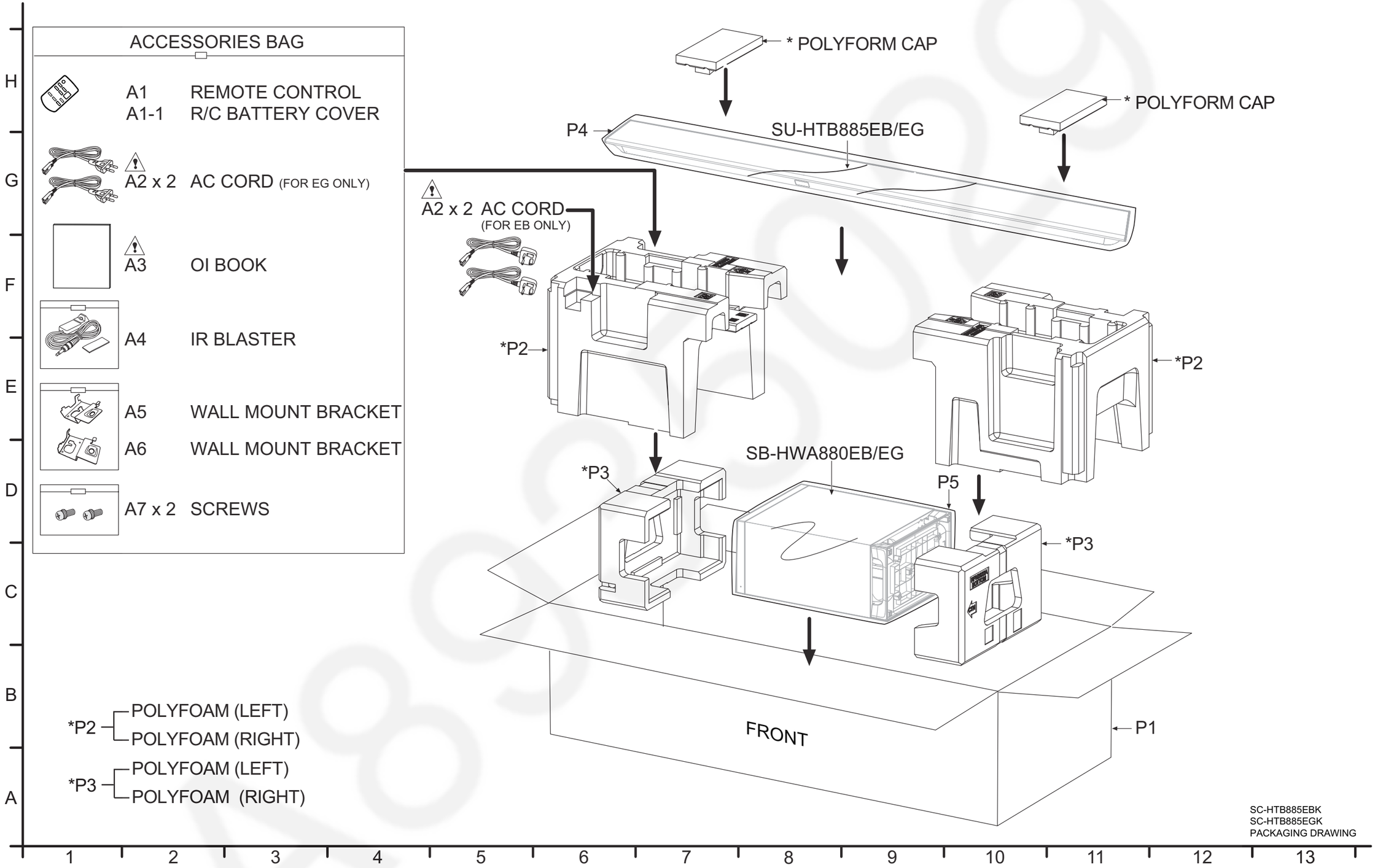
NOTE: " * " PART IS NOT SUPPLIED / REF IS FOR INDICATION ONLY.

SU-HTB885EBK
SU-HTB885EGK
CABINET DRAWING

15.4. Cabinet Parts Location (SB-HWA880)



15.5. Packaging (SC-HTB885)



15.6. 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.
- 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

15.6.1. Main Unit (SU-HTB885)

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
			CABINET AND CHASSIS		
	1	REX1705	4P WIRE (MAIN - LEFT & CENTER SPEAKER)	1	
	2	REE1935	15P FFC (MAIN - PANEL)	1	
	3	REE1904	30P FFC (MAIN - HDMI)	1	
	4	REE1937-1	24P FFC (MAIN - WIRELESS)	1	
	5	REX1711-1	8P WIRE (MAIN - BUTTON)	1	
	6	REX1707	2P WIRE (MAIN - CENTER SPEAKER)	1	
	7	REX1708	7P WIRE (MAIN - SMPS)	1	
	8	RFKGHTB885EB	FRONT CABINET ASS'Y	1	
	9	RYP1979-K1	REAR CABINET ASS'Y	1	
	10	RHD14136	SCREW	1	
	11	RHD30102-1	SCREW	2	
	12	RHDX301002	SCREW	16	
	13	RKA0072-KJ	LEG CUSHION	4	
⚠	14	RGN3520-K	NAME PLATE	1	
	15	RMF0699-1	ACOUSTIC ABSORBER	5	
	16	RMF0681	EPT SEALER	6	
	17	RMF0682	EPT SEALER	3	
	19	RMK0872A	MAIN CHASSIS	1	
	20	RMK0873A	SMPS CHASSIS	1	
	21	RMK0865-1	HDMI CHASSIS	1	
	22	RXQ2231	FL HOLDER UNIT	1	
	23	RMQ2311C	EPT SEALER	4	
	24	RMQ2311D	EPT SEALER	2	
	25	RMQ2311E	EPT SEALER	1	
	26	J0KD00000018	FERRITE CORE	1	
	27	REX1706-1	4P WIRE (MAIN - RIGHT SPEAKER)	1	
	28	REX1709	5P WIRE (MAIN - OPTICAL JACK)	1	
	29	REX1710	3P WIRE (NFC - PANEL)	1	
	30	REX1725-1	3P WIRE (REMOTE SENSOR - PANEL)	1	
	31	RMQ2311H	EPT SEALER	8	
	32	RMQ2311F	EPT SEALER	6	
	33	RHDX261002	SCREW	4	
	34	RMF0458-J	TWEETER SHEET	2	
	35	REE1938	16P FFC (MAIN-BLUETOOTH)	1	
	36	RMQ2310-2	EVA	5	
	37	RMQ2311G	EPT SEALER	1	
	38	RMR2146-K	AC INLET HOLDER	1	
⚠	39	RMZ1443A	SMPS PC SHEET	1	
⚠	40	RMZ1455	MAIN PC SHEET	1	
	41	RSC1106	THERMAL PAD	1	
	42	RSC1215	THERMAL ABSORBER	1	
	43	RSC1272	CONNECTING PLATE	1	
	44	XTB3+10JFJ	SCREW	31	
	45	XTB3+12JFJK	SCREW	19	
	46	RMZ1105-1	HEAT SINK SPACER	4	
	47	RMF0707	EVA	5	
	48	RGQ0822-R	FL FILTER	1	

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
	51	RMQ2311-1	EPT SEALER	4	
	52	RMQ2325-1	NFC TAPE	1	
	53	RMQ2364	DOUBLE FACE TAPE (ACOUSTIC ABOSR-BER)	5	
	54	RMQ2366	TOUCH SENSOR TAPE	1	
	55	RMQ2369	DOUBLE SIDE TAPE	1	
	56	RMF0680	EPT SEALER	1	
	58	RMQ2380	CHASSIS CUSHION	1	
	59	RMQ2380A	CHASSIS CUSHION	1	
	60	RMVX1014-K	USB COVER	1	
	61	RMQ2347	DOUBLE FACE TAPE (FFC FERRITE COIL)	1	
			SPEAKERS		
	SP1	L0AA06A00109	SURROUND SPEAKER (6CM)	1	
	SP2	L0AZ03A00017	TWEETER SPEAKER (3CM)	1	
	SP3	L0AA06A00104	WOOFER SPEAKER (6CM)	1	
	SP4	L0AA06A00103	CENTER SPEAKER (6CM)	1	
	SP5	L0AA06A00104	WOOFER SPEAKER (6CM)	1	
	SP6	L0AZ03A00017	TWEETER SPEAKER (3CM)	1	
	SP7	L0AA06A00109	SURROUND SPEAKER (6CM)	1	

15.6.2. Active Subwoofer (SB-HWA880)

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
			CABINET AND CHAS-SIS		
	61	RYQ1164A-K	REAR PANEL ASS'Y	1	
	62	RMK0875	METAL CHASSIS	1	
	63	XTB4+16AFJK	SCREW	18	
	64	RGU2884-K	PUSH BUTTON	1	
⚠	65	RGN3442-K	SPEC LABEL	1	
	66	RYQ1444-K	SPEAKER CABINET ASS'Y	1	
	67	RHD30111-31	SCREW	1	
	68	RGP1648-1K	BOTTOM PANEL	1	
	69	RKA0072-KJ	LEG CUSHION	6	
	70	RMCX0035	HEATSINK CLIP A	1	
	71	XTB3+10JFJK	SCREW	7	
	72	RMZ1460	IC INSULATOR	1	
	73	RMN1047	RX PCB HOLDER	1	
	74	RHDX301005	SCREW	5	
⚠	75	REX1703	1P RED WIRE (SMPS - SW AC INLET)	1	
⚠	77	REX1704	1P BLACK WIRE (SMPS - SW AC INLET)	1	
	78	REX1436	4P WIRE (POWER BUTTON - DAMP)	1	
	79	REE1941	24P FFC (DAMP - RX MODULE)	1	
	82	RHD26046	SCREW	4	
	83	RSC1215	THERMAL ABSORBER	1	
			SPEAKER		
	SP61	L0AA16A00065	SUBWOOFER SPEAKER (16CM)	1	

15.6.3. Packaging & Accessories (SC-HTB885)

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
			PACKING MATERIALS		
	P1	RPG0Q37	PACKING CASE	1	EG
	P1	RPG0Q38	PACKING CASE	1	EB
	P2	RPN2665	POLYFOAM (SU)	2	
	P3	RPN2622	POLYFOAM (SB)	1	
	P4	RPF0689	MIRAMAT SHEET (SU)	1	
	P5	RPF0588D	MIRAMAT SHEET (SB)	1	
			ACCESSORIES		
	A1	N2QAYC000109	REMOTE CONTROL	1	
	A1-1	RKK-HTB10GNK	R/C BATTERY COVER	1	
⚠	A2	K2CQ2YY00119	AC CORD	2	EG
⚠	A2	K2CT2YY00097	AC CORD	2	EB
⚠	A3	RQT0A01-B	O/I BOOK (En)	1	EB/EG
⚠	A3	RQT0A02-D	O/I BOOK (Ge/Fr/It/Du)	1	EG
⚠	A3	RQT0A03-E	O/I BOOK (Sw/Da/Sp/Fi)	1	EG
⚠	A3	RQT0A15-R	O/I BOOK (Ru/Ur)	1	EG
	A4	K2ZZ02C00007	IR BLASTER	1	
	A5	RMQ2281A	WALL MOUNT BRACKET	1	
	A6	RMQ2281B	WALL MOUNT BRACKET	1	
	A7	XYN5+J14FJK	SCREW	2	

15.7. 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.
- 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.

15.7.1. Main Unit (SU-HTB885)

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
			PRINTED CIRCUITS BOARDS		
	PCB1	REP5173A	HDMI P.C.B.	1	
⚠	PCB2	REP5073CA	SMPS P.C.B.	1	(RTL)
	PCB3	REP5077FA	PANEL P.C.B.	1	(RTL)
	PCB4	REP5077FB	BUTTON P.C.B.	1	(RTL)
	PCB5	REP5077FC	REMOTE SENSOR P.C.B.	1	(RTL)
	PCB6	RFKV5077FD	NFC KIT	1	
	PCB7	RFKV5077FE	MAIN P.C.B.	1	
	PCB8	REP5077FF	OPTICAL JACK P.C.B.	1	(RTL)
	PCB9	REP5087A	BLUETOOTH MODULE	1	
	PCB10	REP4864A	DIGITAL TRANSMITTER MODULE	1	
			INTEGRATED CIRCUITS		
	IC1501	C0JBAC000220	IC	1	(E.S.D)
	IC3300	C0JBAR000606	IC	1	(E.S.D)
	IC3301	C0JBAC000363	IC	1	(E.S.D)
	IC3302	C0JBAC000363	IC	1	(E.S.D)
	IC5701	C0DAAYY00064	IC	1	(E.S.D)
	IC5801	C0DAAYY00072	IC	1	(E.S.D)
	IC6102	C1ZBZ0005215	IC	1	(E.S.D)
			TRANSISTORS		
	Q1500	B1ABMF000020	TRANSISTOR	1	(E.S.D)
	Q3300	B1ABCF000176	TRANSISTOR	1	(E.S.D)
	Q3301	B1ADCE000012	TRANSISTOR	1	(E.S.D)
	Q3302	B1CFGD000002	TRANSISTOR	1	(E.S.D)
	Q3303	B1CFGD000002	TRANSISTOR	1	(E.S.D)

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
	Q3380	B1ABBE000003	TRANSISTOR	1	(E.S.D)
	Q5720	B1BABG000007	TRANSISTOR	1	(E.S.D)
	Q5760	B1ADCE000012	TRANSISTOR	1	(E.S.D)
	Q5761	B1ABBE000003	TRANSISTOR	1	(E.S.D)
	Q5850	B1ABCF000176	TRANSISTOR	1	(E.S.D)
	Q5851	B1ABCF000176	TRANSISTOR	1	(E.S.D)
	Q5852	B1ABCF000176	TRANSISTOR	1	(E.S.D)
	Q5853	B1ADCE000012	TRANSISTOR	1	(E.S.D)
	Q5863	B1ABCF000176	TRANSISTOR	1	(E.S.D)
	Q5864	B1ABCF000176	TRANSISTOR	1	(E.S.D)
	Q5865	B1ADCE000012	TRANSISTOR	1	(E.S.D)
	Q5866	B1ABCF000176	TRANSISTOR	1	(E.S.D)
	Q5873	B1ABCF000176	TRANSISTOR	1	(E.S.D)
	QR5762	B1GBCFJJ0048	TRANSISTOR	1	(E.S.D)
	QR5867	B1GBCFJJ0041	TRANSISTOR	1	(E.S.D)
			DIODES		
	D3304	DZ2J051M0L	DIODE	1	(E.S.D)
	D3306	B0ADDH000009	DIODE	1	(E.S.D)
	D3307	B0ADDH000009	DIODE	1	(E.S.D)
	D3308	DZ2J330M0L	DIODE	1	(E.S.D)
	D3309	DA2J10100L	DIODE	1	(E.S.D)
	D5701	B0EBNR000051	DIODE	1	(E.S.D)
	D5702	B0EAKT000063	DIODE	1	(E.S.D)
	D5704	DZ2J150M0L	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)
	D5708	DZ2J075M0L	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)
	D5850	DZ2J062M0L	DIODE	1	(E.S.D)
⚠	DZ5701	ERZV10V511CS	ZNR	1	(E.S.D)

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
			CONNECTORS		
	CN1	K1KA07AA0193	7P CONNECTOR	1	
	CN3001	K1KA05AA0051	5P CONNECTOR	1	
	CN3300	K1MN15B00014	15P CONNECTOR	1	
	CN3301	K1KA03BA0014	3P CONNECTOR	1	
	CN3302	K1KA03BA0061	3P CONNECTOR	1	
	CN3303	K1KA03AA0193	3P CONNECTOR	1	
	CN6103	K1KA08BA0014	8P CONNECTOR	1	
			COILS AND INDUC-TORS		
⚠	L5702	G0B922G00004	LINE FILTER	1	
⚠	L5703	G0B203G00005	LINE FILTER	1	
	LB1500	J0JHC0000078	INDUCTOR	1	
	LB1501	J0JCC0000308	INDUCTOR	1	
	LB1502	J0JBC0000015	INDUCTOR	1	
	LB3301	J0JHC0000107	INDUCTOR	1	
	LB3302	J0JHC0000107	INDUCTOR	1	
	LB3303	J0JHC0000107	INDUCTOR	1	
	LB3380	J0JHC0000107	INDUCTOR	1	
	LB6110	J0JBC0000015	INDUCTOR	1	
	LB6111	J0JBC0000015	INDUCTOR	1	
			BUZZER		
	BZ3301	L0DCCA000014	BUZZER	1	
			TRANSFORMER		
⚠	T5701	G4DYA0000573	SWITCHING TRANS-FORMER	1	
			PHOTO COUPLERS		
	Q6101	B3JB00000205	PHOTO DETECTOR	1	
⚠	PC5720	B3PBA0000579	PHOTO COUPLER	1	
⚠	PC5760	B3PBA0000579	PHOTO COUPLER	1	
			REMOTE SENSOR		
	Z3300	B3RAB0000109	REMOTE SENSOR	1	
	Z3301	B3RAD0000209	REMOTE SENSOR	1	
			TERMINAL		
	ZJ5703	K4CZ01000027	TERMINAL	1	
			FL DISPLAY		
	FL3300	A2BB00000189	FL DISPLAY	1	
			FUSE		
⚠	F1	K5G312Y00007	FUSE	1	
			THERMISTOR		
	TH5860	D4CC11040013	THERMISTOR	1	
			JACKS		
	JK1500	K2HC104E0005	JK HEADPHONE	1	
	JK3004	B3RAB0000114	JK	1	
⚠	P5701	K2AA2B000011	AC INLET	1	
			CHIP JUMPERS		
	K5723	D0GBR00J0004	0 1/10W	1	
	K5732	D0GBR00J0004	0 1/10W	1	
	LB3006	D0GBR00J0004	0 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
	W20	D0GDR00J0004	0 1/8W	1	
	W30	D0GBR00J0004	0 1/10W	1	
	W31	D0GBR00J0004	0 1/10W	1	
			RESISTORS		
	R1504	D0GA101JA023	100 1/16W	1	
	R1505	D0GB102JA065	1K 1/10W	1	
	R1506	D0GB101JA065	100 1/10W	1	
	R1507	D0GB101JA065	100 1/10W	1	
	R1508	D0GB101JA065	100 1/10W	1	
	R1510	D0GB560JA065	56 1/10W	1	
	R1512	D1BA1500A022	150 1/16W	1	
	R3009	F1H1H103B047	0.01uF 50V	1	
	R3300	D0GF330JA048	33 1/4W	1	
	R3301	D0GF330JA048	33 1/4W	1	
	R3302	D0GBR00J0004	0 1/10W	1	
	R3303	D0GBR00J0004	0 1/10W	1	
	R3304	D0GBR00J0004	0 1/10W	1	
	R3305	D0GB100JA065	10 1/10W	1	
	R3306	D0GBR00J0004	0 1/10W	1	
	R3307	D0GB682JA065	6.8K 1/10W	1	
	R3308	D0GB1R0JA065	1.0 1/10W	1	
	R3309	D0GB473JA065	47K 1/10W	1	
	R3310	D0GB220JA065	22 1/10W	1	
	R3311	D0GB470JA065	47 1/10W	1	
	R3315	D0GB102JA065	1K 1/10W	1	
	R3316	D0GB473JA065	47K 1/10W	1	
	R3317	D0GB473JA065	47K 1/10W	1	
	R3318	D0GB473JA065	47K 1/10W	1	
	R3319	D0GBR00J0004	0 1/10W	1	
	R3320	D0GB470JA065	47 1/10W	1	
	R3321	D0GBR00J0004	0 1/10W	1	
	R3322	D0GBR00J0004	0 1/10W	1	
	R3380	D0GB102JA065	1K 1/10W	1	
	R3381	D0GB102JA065	1K 1/10W	1	
	R3382	D0GB105JA065	1M 1/10W	1	
	R3383	D0GB124JA065	120K 1/10W	1	
	R3384	D0GB473JA065	47K 1/10W	1	
	R3401	D0GB470JA065	47 1/10W	1	
	R3402	D0GBR00J0004	0 1/10W	1	
	R4015	D0GBR00J0004	0 1/10W	1	
	R5700	ERJ8GEYJ105V	1M 1/4W	1	
	R5701	ERJ8GEYJ105V	1M 1/4W	1	
	R5702	ERJ1TYJ104U	100K 1W	1	
	R5703	ERJ1TYJ104U	100K 1W	1	
	R5710	ERJ8GEYJ105V	1M 1/4W	1	
	R5720	D0GD3R3JA052	3.3 1/8W	1	
	R5721	D0GD222JA052	2.2K 1/8W	1	
	R5722	D0GB562JA065	5.6K 1/10W	1	
	R5727	ERX2SJR39P	0.39 2W	1	
	R5730	D0GDR00J0004	0 1/8W	1	
	R5731	D0GDR00J0004	0 1/8W	1	
	R5732	D0GB471JA065	470 1/10W	1	
	R5733	D0GB224JA065	220K 1/10W	1	
	R5761	D0GB102JA065	1K 1/10W	1	
	R5762	D0GB102JA065	1K 1/10W	1	
	R5763	D0GB102JA065	1K 1/10W	1	
	R5764	D0GB472JA065	4.7K 1/10W	1	
	R5766	D0GB333JA065	33K 1/10W	1	
	R5767	D0GB223JA065	22K 1/10W	1	
	R5802	D1BB4302A073	43K 1/10W	1	
	R5804	D1BB4702A074	47K 1/10W	1	
	R5805	D1BB1002A073	10K 1/10W	1	
	R5806	D0GB103JA065	10K 1/10W	1	
	R5808	D0GB472JA065	4.7K 1/10W	1	
	R5809	D0GD152JA017	1.5K 1/8W	1	
	R5810	D0GB221JA065	220 1/10W	1	
	R5814	D0GB102JA065	1K 1/10W	1	
	R5817	D1BB3302A074	33K 1/10W	1	
	R5819	D0GB151JA065	150 1/10W	1	
	R5828	D0GB220JA065	22 1/10W	1	
	R5829	D1BB2701A074	2.7K 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
	R5833	D0GB101JA065	100 1/10W	1	
	R5838	D0GB220JA065	22 1/10W	1	
	R5846	D0GB473JA065	47K 1/10W	1	
	R5849	D0GB104JA065	100K 1/10W	1	
	R5850	D0GB104JA065	100K 1/10W	1	
	R5851	D0GB473JA065	47K 1/10W	1	
	R5852	D0GB473JA065	47K 1/10W	1	
	R5853	D0GB104JA065	100K 1/10W	1	
	R5855	D1BB1002A073	10K 1/10W	1	
	R5856	D1BB1002A073	10K 1/10W	1	
	R5857	D0GD103JA052	10K 1/8W	1	
	R5858	D1BB3301A074	3.3K 1/10W	1	
	R5859	D0GD103JA052	10K 1/8W	1	
	R5861	D0GB104JA065	100K 1/10W	1	
	R5865	D0GD223JA017	22K 1/8W	1	
	R5867	D0GB102JA065	1K 1/10W	1	
	R5868	D0GB103JA065	10K 1/10W	1	
	R5869	D0GB223JA065	22K 1/10W	1	
	R5871	D0GB104JA065	100K 1/10W	1	
	R5875	D0GD223JA017	22K 1/8W	1	
	R6101	D0GB473JA065	47K 1/10W	1	
	R6103	D0GB681JA065	680 1/10W	1	
	R6104	D0GBR00J0004	0 1/10W	1	
	R6107	D0GB822JA065	8.2K 1/10W	1	
	R6110	D0GBR00J0004	0 1/10W	1	
	R6112	D0GBR00J0004	0 1/10W	1	
	R6113	D0GBR00J0004	0 1/10W	1	
			CAPACITORS		
	C1501	F1G1A1040006	0.1uF 10V	1	
	C1502	F1G1A1040006	0.1uF 10V	1	
	C1510	F1G1A1040006	0.1uF 10V	1	
	C3001	F1H1H103B047	0.01uF 50V	1	
	C3021	F1J1A106A043	10uF 10V	1	
	C3300	F1J1E105A287	1uF 25V	1	
	C3301	F1J1E105A287	1uF 25V	1	
	C3305	F1H1E105A153	1uF 25V	1	
	C3306	F1J1H475A977	4.7uF 50V	1	
	C3307	F1H1E105A153	1uF 25V	1	
	C3308	F1H1A1050040	1uF 10V	1	
	C3309	F1J1H475A977	4.7uF 50V	1	
	C3310	F1K1V106A010	10uF 35V	1	
	C3311	F1H1E105A153	1uF 25V	1	
	C3312	F1H1E105A153	1uF 25V	1	
	C3313	F1H1H101B052	100pF 50V	1	
	C3316	F1J1A4750002	4.7uF 10V	1	
	C3320	F1J1H105A918	1uF 50V	1	
	C3321	F1H1H102B052	1000pF 50V	1	
	C3322	F1H1H101B052	100pF 50V	1	
	C3380	F1J1H105A918	1uF 50V	1	
	C3381	F1H1H102B052	1000pF 50V	1	
	C3383	F1J1H105A918	1uF 50V	1	
	C4016	F1H1H102B052	1000pF 50V	1	
	C4017	F1H1H102B052	1000pF 50V	1	
	C4018	F1H1H102B052	1000pF 50V	1	
	C4019	F1H1H102B052	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	F2A2G470A187	47uF 400V	1	
	C5713	F0C2J1020001	1000pF 630V	1	
	C5720	F1H1H101B052	100pF 50V	1	
	C5722	F1H1H102B047	1000pF 50V	1	
	C5724	F1H1H221B052	220pF 50V	1	
	C5726	F2A1H100A214	10uF 50V	1	
	C5727	F2A1H100A214	10uF 50V	1	
	C5730	D0GBR00J0004	0 1/10W	1	
	C5747	F1B3D561A132	560pF 2000V	1	
	C5760	F1H1H104B047	0.1uF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
	C5761	F1H1H104B047	0.1uF 50V	1	
	C5762	F1H1H104B047	0.1uF 50V	1	
	C5800	F1J2E1020002	1000pF 250V	1	
	C5801	F1H1H104B047	0.1uF 50V	1	
	C5802	F1J1C106A224	10uF 16V	1	
	C5805	F2A1V4710074	470uF 35V	1	
	C5817	F1H1H682B047	6800pF 50V	1	
	C5818	F1H1H104B047	0.1uF 50V	1	
	C5819	F1H1H560B052	56pF 50V	1	
	C5820	F1H1H560B052	56pF 50V	1	
	C5828	F2A0J471A016	470uF 6.3V	1	
	C5838	F2A0J471A016	470uF 6.3V	1	
	C5851	F1H0J1060006	10uF 6.3V	1	
	C5862	F1H1H104B047	0.1uF 50V	1	
	C5863	F1H0J1060006	10uF 6.3V	1	
	C5869	F1H1H103B047	0.01uF 50V	1	
	C5870	F1H0J105A051	1uF 6.3V	1	
	C5879	F1H1H103B047	0.01uF 50V	1	
	C6101	F1J1A4750002	4.7uF 10V	1	
	C6102	F1J1A4750002	4.7uF 10V	1	
	C6110	F1H1E105A153	1uF 25V	1	
	C6111	F1H1H104B047	0.1uF 50V	1	
	C6112	F1H0J1060006	10uF 6.3V	1	

15.7.2. Active Subwoofer (SB-HWA880)

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
			PRINTED CIRCUITS BOARDS		
⚠	PCB1	REP5036CA	SW SMPS & SW AC INLET P.C.B.	1	(RTL)
	PCB2	REP5036CC	SW POWER BUTTON P.C.B.	1	(RTL)
	PCB3	REP5036CD	SW LED P.C.B.	1	(RTL)
	PCB4	REP4936A	DIGITAL RECEIVER MODULE	1	
			INTEGRATED CIR-CUITS		
	IC3002	C0ABBB000244	IC	1	(E.S.D)
	IC5200	C1BA00000497	IC	1	(E.S.D)
	IC5201	C0FBBY000124	IC	1	(E.S.D)
	IC5701	C5HACYY00008	IC	1	(E.S.D)
	IC5799	MIP2F20MSSCF	IC	1	(E.S.D)
	IC5801	C0DABYY00011	IC	1	(E.S.D)
	IC5899	C0DBZMC00006	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	B1ADCE000012	TRANSISTOR	1	(E.S.D)
	Q2011	B1ACKD000006	TRANSISTOR	1	(E.S.D)
	Q5720	B1BABG000007	TRANSISTOR	1	(E.S.D)
	Q5721	B1ADCE000022	TRANSISTOR	1	(E.S.D)
	Q5722	B1ABCF000231	TRANSISTOR	1	(E.S.D)
	Q5851	B1ADCE000012	TRANSISTOR	1	(E.S.D)
	Q5852	B1ABBE000003	TRANSISTOR	1	(E.S.D)
	Q5853	B1ABBE000003	TRANSISTOR	1	(E.S.D)
	Q5865	B1ADCE000012	TRANSISTOR	1	(E.S.D)
	Q5866	B1ABCF000176	TRANSISTOR	1	(E.S.D)
	QR5801	B1GBCFJN0038	TRANSISTOR	1	(E.S.D)
	QR5802	B1GDCFGA0018	TRANSISTOR	1	(E.S.D)
	QR5810	B1GBCFLL0037	TRANSISTOR	1	(E.S.D)
	QR5854	B1GBCFJJ0048	TRANSISTOR	1	(E.S.D)
	QR5867	B1GBCFJJ0041	TRANSISTOR	1	(E.S.D)
			DIODES		
	D2000	B0BC01600013	DIODE	1	(E.S.D)
	D4001	B3AGA0000140	DIODE	1	(E.S.D)
	D5701	B0FBAR000043	DIODE	1	(E.S.D)
	D5702	B0ZAZ0000089	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	DZ2J062M0L	DIODE	1	(E.S.D)
	D5708	DA2J10100L	DIODE	1	(E.S.D)
	D5709	DA2J10100L	DIODE	1	(E.S.D)
	D5710	B0ECBR000001	DIODE	1	(E.S.D)
	D5712	B0EAMM000057	DIODE	1	(E.S.D)
	D5713	DZ2J300M0L	DIODE	1	(E.S.D)
	D5714	DZ2J056M0L	DIODE	1	(E.S.D)
	D5791	DZ2J100M0L	DIODE	1	(E.S.D)
	D5793	B0HAMP000094	DIODE	1	(E.S.D)
	D5798	B0EAMM000057	DIODE	1	(E.S.D)
	D5801	B0ABSM000008	DIODE	1	(E.S.D)
	D5802	B0ABSM000008	DIODE	1	(E.S.D)
	D5851	DA2J10100L	DIODE	1	(E.S.D)
	D5852	DA2J10100L	DIODE	1	(E.S.D)
	D5896	B0EAMM000057	DIODE	1	(E.S.D)
	D5926	B0EAKM000117	DIODE	1	(E.S.D)
	D5928	DA2J10100L	DIODE	1	(E.S.D)
⚠	DZ5701	ERZV10V511CS	ZNR		
			SWITCHES		
				1	
	S1000	EVQ21405R	SW	1	
	S1001	K0F122B00107	SW	1	
			CONNECTORS		
	CN1000	K1MN24AA0004	24P CONNECTOR	1	
	CN1002	K1KA04BA0061	4P CONNECTOR	1	
	CN1003	K1KA03BA0061	3P CONNECTOR	1	
	CN1006	K1KA02AA0186	2P CONNECTOR	1	
	CN4000	K1KA03BA0061	3P CONNECTOR	1	
			COILS AND INDUC-TORS		
	L1000	G0A150L00003	CHOKE COIL	1	
⚠	L5702	G0B203G00005	LINE FILTER	1	
⚠	L5703	G0B203G00005	INDUCTOR	1	
	LB1003	J0JKB0000020	INDUCTOR	1	
	LB1004	J0JKB0000020	INDUCTOR	1	
			TRANSFORMERS		
⚠	T5701	G4DYA0000485	TRANSFORMER	1	
⚠	T5751	G4DYA0000592	TRANSFORMER	1	
			PHOTO COUPLERS		
⚠	PC5701	B3PBA0000579	PHOTO COUPLER	1	
⚠	PC5720	B3PBA0000579	PHOTO COUPLER	1	
⚠	PC5799	B3PBA0000579	PHOTO COUPLER	1	
			TERMINALS		
	Z1002	K4CZ01000027	TERMINAL	1	
	ZJ5701	K4CZ01000027	TERMINAL	1	
	ZJ5703	K4CZ01000027	TERMINAL	1	
			FUSE		
⚠	F1	K5G312Y00007	FUSE	1	
			THERMISTORS		
	TH5702	D4CAA5R10001	THERMISTOR	1	
	TH5860	D4CC11040013	THERMISTOR	1	
			JACK		
⚠	P5701	K2AA2B000011	AC INLET	1	
			CHIP JUMEPRS		
	K5723	D0GBR00J0004	0 1/10W	1	
	W15	D0GFR00J0005	0 1/4W	1	
	W41	D0GFR00J0005	0 1/4W	1	
	W101	D0GBR00J0004	0 1/8W	1	
	W1001	D0GBR00J0004	0 1/8W	1	
	W1006	D0GBR00J0004	0 1/10W	1	
	W1011	D0GBR00J0004	0 1/10W	1	
	W1015	D0GBR00J0004	0 1/8W	1	
	W1016	D0GBR00J0004	0 1/8W	1	
	W1020	D0GBR00J0004	0 1/8W	1	
	W1022	D0GBR00J0004	0 1/8W	1	
	W1025	D0GFR00J0005	0 1/4W	1	

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
	W1026	D0GFR00J0005	0 1/4W	1	
	W1028	D0GBR00J0004	0 1/8W	1	
	W1030	D0GBR00J0004	0 1/10W	1	
	W1031	D0GBR00J0004	0 1/8W	1	
	W1032	D0GBR00J0004	0 1/10W	1	
				1	
			RESISTORS		
	R1007	D0GB103JA065	10K 1/10W	1	
	R1008	D0GB103JA065	10K 1/10W	1	
	R1009	D0GB472JA065	4.7K 1/10W	1	
	R1011	D0GB822JA065	8.2K 1/10W	1	
	R1013	D0GB104JA065	100K 1/10W	1	
	R1014	D0GB823JA065	82K 1/10W	1	
	R1015	D0GB273JA065	27K 1/10W	1	
	R1016	D0GB154JA065	150K 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	D0GB220JA065	22 1/10W	1	
	R2004	D0GB333JA065	33K 1/10W	1	
	R2005	D0GB270JA007	27 1/10W	1	
	R2006	D0GB103JA065	10K 1/10W	1	
	R2010	D0GB220JA065	22 1/10W	1	
	R2012	D0GB333JA065	33K 1/10W	1	
	R2013	D0GB822JA065	8.2K 1/10W	1	
	R2014	D0GB561JA065	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	
	R5200	D0GF100JA048	10 1/4W	1	
	R5201	D0GF100JA048	10 1/4W	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	ERJ8GEYJ105V	1M 1/4W	1	
⚠	R5701	ERJ8GEYJ105V	1M 1/4W	1	
	R5702	ERJ1TYJ104U	100K 1W	1	
	R5703	ERJ1TYJ104U	100K 1W	1	
⚠	R5710	ERJ8GEYJ105V	1M 1/4W	1	
	R5720	D0GD220JA052	22 1/8W	1	
	R5721	D0GD103JA052	10K 1/8W	1	
	R5722	D0GD242JA052	2.4K 1/8W	1	
	R5723	D0GB102JA065	1K 1/10W	1	
	R5724	D0GD121JA052	120 1/8W	1	
	R5725	D0GB473JA065	47K 1/10W	1	
	R5726	ERJ1TRQJR24U	0.24 1W	1	
	R5727	ERJ1TRQJR24U	0.24 1W	1	
	R5728	D0GB104JA065	100K 1/10W	1	
	R5729	D0GD103JA052	10K 1/8W	1	
	R5730	D0GB102JA065	1K 1/10W	1	
	R5731	D0GBR00J0004	0 1/10W	1	
	R5732	D0GD221JA052	220 1/8W	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	
	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	D0GB101JA065	100 1/10W	1	
	R5782	D0GB101JA065	100 1/10W	1	
	R5786	D0GD224JA003	220K 1/8W	1	

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
	R5795	D0GD474JA052	470K 1/8W	1	
	R5797	D0GB153JA065	15K 1/10W	1	
	R5798	D0GB220JA065	22 1/10W	1	
	R5800	D0GB183JA065	18K 1/10W	1	
	R5801	D0GB223JA065	22K 1/10W	1	
	R5802	D1BB1202A074	12K 1/10W	1	
	R5803	D1BB2202A074	22K 1/10W	1	
	R5804	D1BB2202A074	22K 1/10W	1	
	R5805	D1BB2201A074	2.2K 1/10W	1	
	R5806	D0GB223JA065	22K 1/10W	1	
	R5808	D0GB472JA065	4.7K 1/10W	1	
	R5809	D0GD152JA017	1.5K 1/8W	1	
	R5810	D0GB221JA065	220 1/10W	1	
	R5811	D0GBR00J0004	0 1/10W	1	
	R5814	D0GB822JA065	8.2K 1/10W	1	
	R5817	D0GB681JA065	680 1/10W	1	
	R5833	D0GBR00J0004	0 1/10W	1	
	R5840	D0GB823JA065	82K 1/10W	1	
	R5841	D0GB124JA065	120K 1/10W	1	
	R5851	D0GB103JA065	10K 1/10W	1	
	R5852	D0GB103JA065	10K 1/10W	1	
	R5853	D0GB103JA065	10K 1/10W	1	
	R5854	D0GB472JA065	4.7K 1/10W	1	
	R5855	D1BB1002A073	10K 1/10W	1	
	R5856	D1BB1002A073	10K 1/10W	1	
	R5857	D0GD103JA052	10K 1/8W	1	
	R5858	D1BB6191A012	6.19K 1/10W	1	
	R5859	D0GD103JA052	10K 1/8W	1	
	R5860	D0GB223JA065	22K 1/10W	1	
	R5861	D0GB103JA065	10K 1/10W	1	
	R5862	D0GB223JA065	22K 1/10W	1	
	R5863	D0GB223JA065	22K 1/10W	1	
	R5864	D0GB273JA065	27K 1/10W	1	
	R5890	D0GB222JA065	2.2K 1/10W	1	
	R5891	D1BB3302A074	33K 1/10W	1	
	R5892	D1BB3001A074	3K 1/10W	1	
	R5893	D1BB3002A074	30K 1/10W	1	
	R5894	D0GB151JA065	150 1/10W	1	
	R5895	D0GB153JA065	15K 1/10W	1	
	R5896	D0GB222JA065	2.2K 1/10W	1	
			CAPACITORS		
	C1002	F1H1H104B047	0.1uF 50V	1	
	C1004	F2A1H8210026	820uF 50V	1	
	C1005	F1H1H104B047	0.1uF 50V	1	
	C1006	F1H1H104B047	0.1uF 50V	1	
	C1007	F1H1H104B047	0.1uF 50V	1	
	C1009	F2A0J681A550	680uF 6.3V	1	
	C1011	F2A1H8210026	820uF 50V	1	
	C1014	F1J1C106A059	10uF 16V	1	
	C1116	ECQV1H684JL3	0.68uF 50V	1	
	C1117	F1H1H104B047	0.1uF 50V	1	
	C1118	F1H1H104B047	0.1uF 50V	1	
	C1216	ECQV1H684JL3	0.68uF 50V	1	
	C1217	F1H1H104B047	0.1uF 50V	1	
	C1218	F1H1H104B047	0.1uF 50V	1	
	C2000	F1H1H104B047	0.1uF 50V	1	
	C2006	F1K1H105A138	1uF 50V	1	
	C2011	F1H1H104B047	0.1uF 50V	1	
	C2015	F1K1H105A138	1uF 50V	1	
	C3105	F1H1H683A783	0.068uF 50V	1	
	C3106	F1H1H1010005	100pF 50V	1	
	C5200	F1H1H104B047	0.1uF 50V	1	
	C5201	F1H1H153A219	0.015uF 50V	1	
	C5202	F1H1C2240011	0.22uF 16V	1	
	C5203	F1J2A221A030	220pF 100V	1	
	C5204	F1H1H153A219	0.015uF 50V	1	
	C5205	F1J2A221A030	220pF 100V	1	
	C5206	F1H1H104B047	0.1uF 50V	1	
	C5207	F1H1H104B047	0.1uF 50V	1	
	C5208	F1H1H104B047	0.1uF 50V	1	
	C5209	F1H1H104B047	0.1uF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
	C5210	F1K2A1040007	0.1uF 100V	1	
	C5211	F1J2A221A030	220pF 100V	1	
	C5212	F1H1H221A792	220pF 50V	1	
	C5213	F1H1H104B047	0.1uF 50V	1	
	C5214	F1H1H104B047	0.1uF 50V	1	
	C5215	F1K2A1040007	0.1uF 100V	1	
	C5216	F1H1H331A219	330pF 50V	1	
	C5218	F1J2A221A030	220pF 100V	1	
	C5219	F1K2A1040007	0.1uF 100V	1	
	C5220	F1H1H104B047	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	F2A2A101A393	100uF 100V	1	
	C5242	D0GBR00J0004	0 1/10W	1	
	C5243	D0GBR00J0004	0 1/10W	1	
	C5522	F1H1H104B047	0.1uF 50V	1	
	C5523	F1H1H104B047	0.1uF 50V	1	
	C5603	F1H1H104B047	0.1uF 50V	1	
	C5605	F1H1H104B047	0.1uF 50V	1	
	C5606	F1H1H104B047	0.1uF 50V	1	
	C5607	F1H1H104B047	0.1uF 50V	1	
	C5608	F1H1H104B047	0.1uF 50V	1	
	C5609	F1H1H104B047	0.1uF 50V	1	
	C5610	F1H1H104B047	0.1uF 50V	1	
	C5611	F1H1H104B047	0.1uF 50V	1	
	C5612	F1H1H104B047	0.1uF 50V	1	
	C5613	F1H1H104B047	0.1uF 50V	1	
	C5615	F1H1H103A219	0.01uF 50V	1	
	C5616	F1H1H223A219	0.022uF 50V	1	
	C5617	F1H1H104B047	0.1uF 50V	1	
	C5619	F1H1H104B047	0.1uF 50V	1	
	C5620	F1J1A106A043	10uF 10V	1	
	C5621	F2A1A220A649	22uF 10V	1	
	C5622	F2A1A220A649	22uF 10V	1	
	C5623	F1J1A106A043	10uF 10V	1	
	C5624	F1K1H105A138	1uF 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	
⚠	C5706	F1BAF1020020	1000pF	1	
	C5712	F2B2G1510018	150uF 400V	1	
	C5713	F0C2J1030007	0.01uF 630V	1	
	C5720	F1H1H101B052	100pF 50V	1	
	C5721	F1H1H221B047	220pF 50V	1	
	C5722	F1H1H271B052	270pF 50V	1	
	C5723	F1H1H471A219	470pF 50V	1	
	C5724	D0GBR00J0004	0 1/10W	1	
	C5725	F1H1H104B047	0.1uF 50V	1	
	C5726	F2A1H100A214	10uF 50V	1	
	C5728	F1H1H102B047	1000pF 50V	1	
	C5730	F1J1A335A005	3.3uF 10V	1	
	C5731	F1H1H104B047	0.1uF 50V	1	
	C5747	F1B3D821A011	820pF 2000V	1	
	C5790	F1K2J2220002	2200pF 630V	1	
	C5794	F1K1H105A251	1uF 50V	1	
	C5795	F1H1H102B047	1000pF 50V	1	
	C5796	F1H1H104B047	0.1uF 50V	1	
	C5798	F2A1H100A214	10uF 50V	1	
	C5800	F1J2E1030004	0.01uF 250V	1	
	C5802	F1H1H104B047	0.1uF 50V	1	
	C5805	F2A1H8210026	820uF 50V	1	
	C5808	F2A1H8210026	820uF 50V	1	
	C5817	F1H2A1040001	0.1uF 100V	1	

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
	C5818	F1H1H472B047	4700pF 50V	1	
	C5819	F1H1H560B052	56pF 50V	1	
	C5820	F1H1H560B052	56pF 50V	1	
	C5851	F1H1H104B047	0.1uF 50V	1	
	C5852	F1H1H104B047	0.1uF 50V	1	
	C5853	F1H1H104B047	0.1uF 50V	1	
	C5854	F1H1H104B047	0.1uF 50V	1	
	C5862	F1H1H104B047	0.1uF 50V	1	
	C5863	F1H0J1060006	10uF 6.3V	1	
	C5898	F1H1H104B047	0.1uF 50V	1	
	C5899	F2A1A221B161	220uF 10V	1	
			SERVICE FIXTURE & TOOLS		
	SFT1	REXX1194	2P WIRE (SPK-SW DAMP)	1	

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