

Service Manual

Home Theater Audio System

Model No. **SU-HTB485EB**

SU-HTB485EG

SU-HTB485GN

SB-HWA480EB

SB-HWA480GN

SC-HTB485EB

SC-HTB485EG

SC-HTB485GN

HDMI
VIERA Link™

Bluetooth®



Remote Control



SB-HWA480



SU-HTB485

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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1 Safety Precautions

1.1. General Guidelines

1. IMPORTANT SAFETY NOTICE

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

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

1.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. 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 $1M\Omega$ 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 $1.5k\Omega$, 10 watts resistor, in parallel with a $0.15\mu F$ capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1-1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. 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.

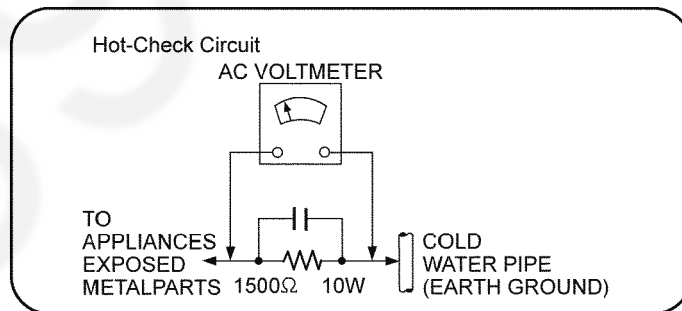


Figure 1-1

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

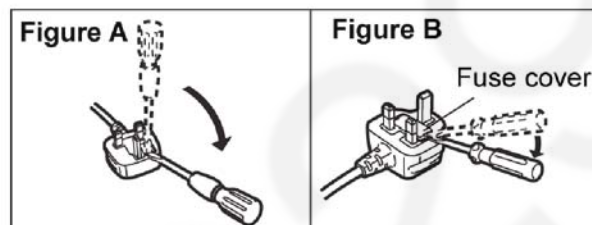
Remove the connector cover.

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.

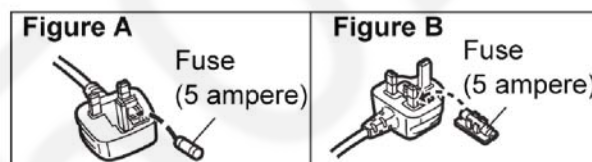


Figure 1-2

1.3. Before Repair and Adjustment

1.3.1. Main Speaker Unit (SU-HTB485)

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 ~150 mA .

1.3.2. Active Subwoofer (SB-HWA480)

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 Speaker Unit (SU-HTB485)

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
⚠	15	RGN3523-K	NAME PLATE	EB,EG
⚠	15	RGN3524-K	NAME PLATE	GN
⚠	PCB5	REP5047CA	SMPS P.C.B.	(RTL)
⚠	DZ5701	ERZV10V511CS	SURGE ABSORBER	(E.S.D)
⚠	L5702	G0B922G00004	LINE FILTER	
⚠	L5703	G0B203G00005	LINE FILTER	
⚠	T5701	G4DYA0000573	SWITCHING TRANSFORMER	
⚠	PC5720	B3PBA0000579	PHOTO COUPLER	
⚠	PC5760	B3PBA0000579	PHOTO COUPLER	
⚠	F1	K5G312Y00007	FUSE	
⚠	P5701	K2AA2B000011	AC INLET	
⚠	C5700	F1BAF1020020	1000pF	
⚠	C5701	F0CAF104A105	0.1uF	
⚠	C5702	F0CAF104A105	0.1uF	
⚠	C5703	F0CAF104A105	0.1uF	
⚠	C5704	F1BAF471A013	470pF	
⚠	C5705	F1BAF471A013	470pF	

1.6.2. Active Subwoofer (SB-HWA480)

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
⚠	67	RGN3530-K	SPEC LABEL	HWA480GN
⚠	67	RGN3430-K	SPEC LABEL	HWA480EB
⚠	80	REX1635	1P RED WIRE (SW SMPS - SW AC INLET)	
⚠	84	REX1636	1P BLACK WIRE (SW SMPS - SW AC INLET)	
⚠	PCB4	REP4860W	SW SMPS P.C.B.	(RTL)
⚠	PCB5	REP4860W	SW AC INLET P.C.B.	(RTL)
⚠	DZ5701	ERZV10V511CS	ZNR	(E.S.D)
⚠	L5702	G0B922G00004	LINE FILTER	
⚠	L5703	G0B922G00004	LINE FILTER	
⚠	T5701	G4DYA0000485	TRANSFORMER	
⚠	PC5720	B3PBA0000579	PHOTO COUPLER	
⚠	PC5760	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	

1.6.3. System (SC-HTB485)

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
⚠	A2	K2CJ2YY00101	AC CORD	GN
⚠	A2	K2CQ2YY00119	AC CORD	EG
⚠	A2	K2CT2YY00097	AC CORD	EB
⚠	A3	RQT0A04-B	O/I BOOK (En)	
⚠	A3	RQT0A05-D	O/I BOOK (Ge/Fr/It)	EG
⚠	A3	RQT0A06-E	O/I BOOK (Sw/Da/Du)	EG
⚠	A3	RQT0A14-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).

IMPORTANT SAFETY NOTICE

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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) 60 W per channel (6 Ω), 1 kHz,
10% THD

Subwoofer ch 130 W per channel (8 Ω), 100 Hz,
10% THD

Total RMS Dolby Digital mode power 250 W

■ Terminal Section

HDAVI Control This unit supports "HDAVI Control
5" function.

HDMI AV input (BD/DVD) 1

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: 34 W

Active subwoofer: 23 W

In standby condition

Main Unit*1

(When "BLUETOOTH STANDBY" is "OFF") : Approx. 0.48 W

(When "BLUETOOTH STANDBY" is "ON") : Approx. 3 W

Active subwoofer

Power switch off : Approx. 0.25 W

The wireless link is not activated : Approx. 1.3 W

AC 220 V to 240 V, 50 Hz

Power supply

Dimensions (W x H x D)

Main Unit

For table top layout 950 mm x 53 mm x 110 mm

For wall mounting layout 950 mm x 110 mm x 57 mm

Active subwoofer 180 mm x 408 mm x 306 mm

Mass

Main Unit

For table top layout Approx. 2.5 kg

For wall mounting layout Approx. 2.6 kg

Active subwoofer 5.0 kg

Operating temperature range 0°C to +40°C

Operating humidity range 20% to 80 % RH
(no condensation)

■ Speaker Section

Front speakers (Build-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. 2.1+EDR

Wireless equipment classification

Class 2

Supported profiles

A2DP

Operating frequency

2.4 GHz band FH-SS

Operating distance

10 m (33 ft) Line of Sight

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

*1 : When the other connected devices are turned off

■ System: SC-HTB485EBK

MAIN SPEAKER UNIT : SU-HTB485EBK

ACTIVE SUBWOOFER : SB-HWA480EBK

■ System: SC-HTB485EGK

MAIN SPEAKER UNIT : SU-HTB485EGK

ACTIVE SUBWOOFER : SB-HWA480EBK

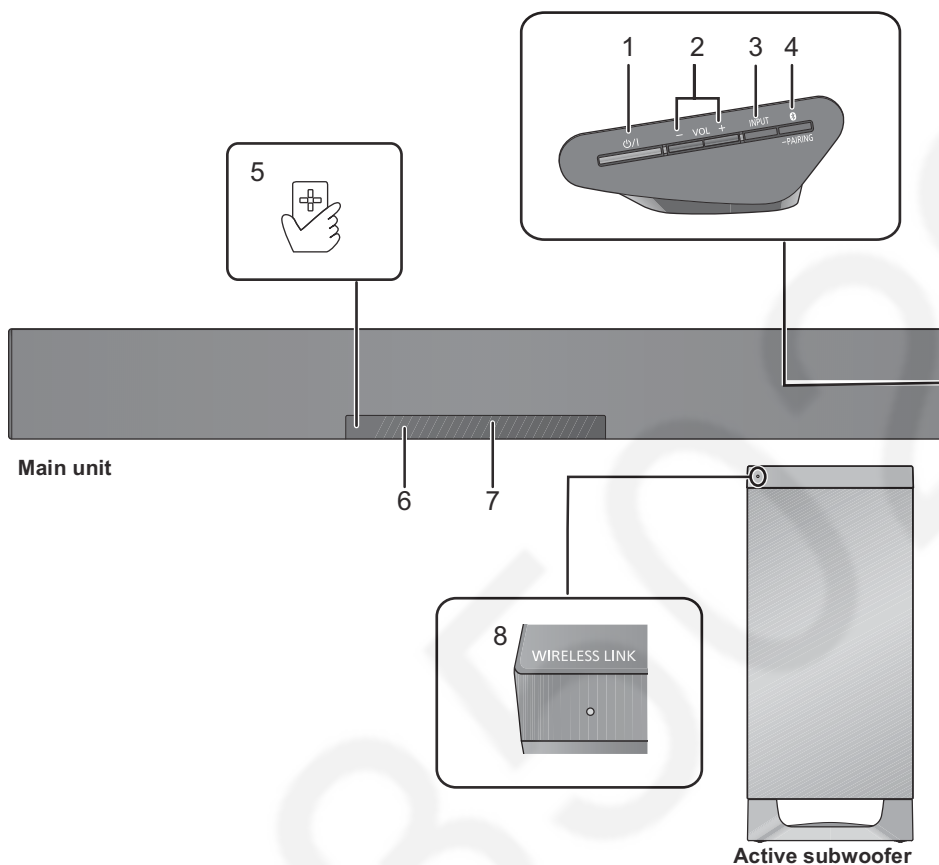
■ System: SC-HTB485GNK

MAIN SPEAKER UNIT : SU-HTB485GNK

ACTIVE SUBWOOFER : SB-HWA480GNK

5 Location of Controls and Components

5.1. Main Unit & Active Subwoofer Key Button Operations



1 Standby/on switch (⏻/⏻)

Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

2 Adjust the volume of this system

3 Select the input source

"TV" → "BD/DVD" → "BLUETOOTH"



4 Select the Bluetooth® device as the source

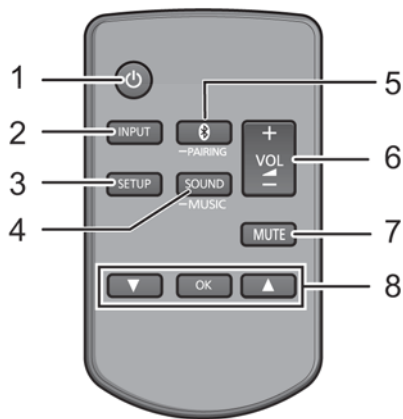
5 NFC touch area

6 Remote control signal sensor

7 Display

8 WIRELESS LINK indicator

5.2. Remote Control Key Button Operations



- 1 Turn the main unit on or off
- 2 Select the input source
"TV" → "BD/DVD" → "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

■ About remote control signal sensor

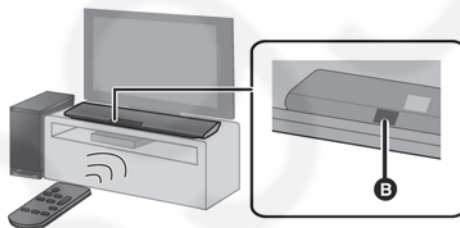
The remote control signal sensor is located on the main unit.

- Use the remote control within the correct operation range.

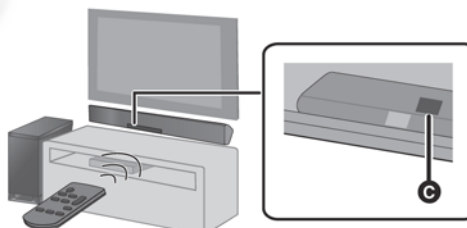
Distance: Within approx. 7 m directly in front

Angle: Approx. 30° left and right

For table top layout



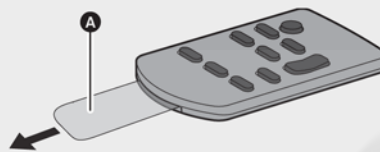
For wall mounting layout



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

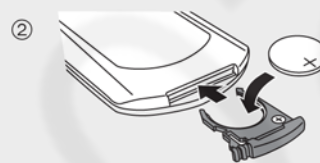
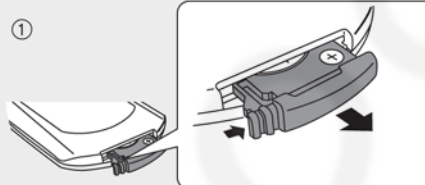
■ Before using for the first time

Remove the insulation sheet **A**.



■ To replace a button-type battery

Battery type: CR2025 (Lithium battery)

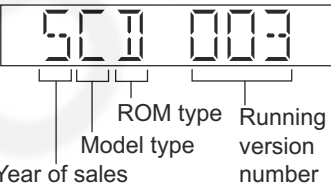


- Set the button-type battery with its (+) mark facing upward.

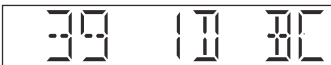
6 Service Mode

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 [5CD 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 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 : 485) 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.
Region information	Region Setting 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.
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 4 seconds.
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. Service Mode Software Version Check Table

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 Sales Year

1	2011
2	2012
3	2013
4	2014
5	2015

③ ROM Type

HTB885	HTB485
5CA	5CB

④ Running Version Number

XXX	Range from 000 ~999
-----	---------------------

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	

6.4. Service Mode 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	

6.5. Service Mode 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	

6.6. 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 BKS * 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
USB Update Fail	Display Remained unless user power off.	Example: 	USB updating of Software Failed

7 Troubleshooting Guide

7.1. Troubleshooting Flowchart

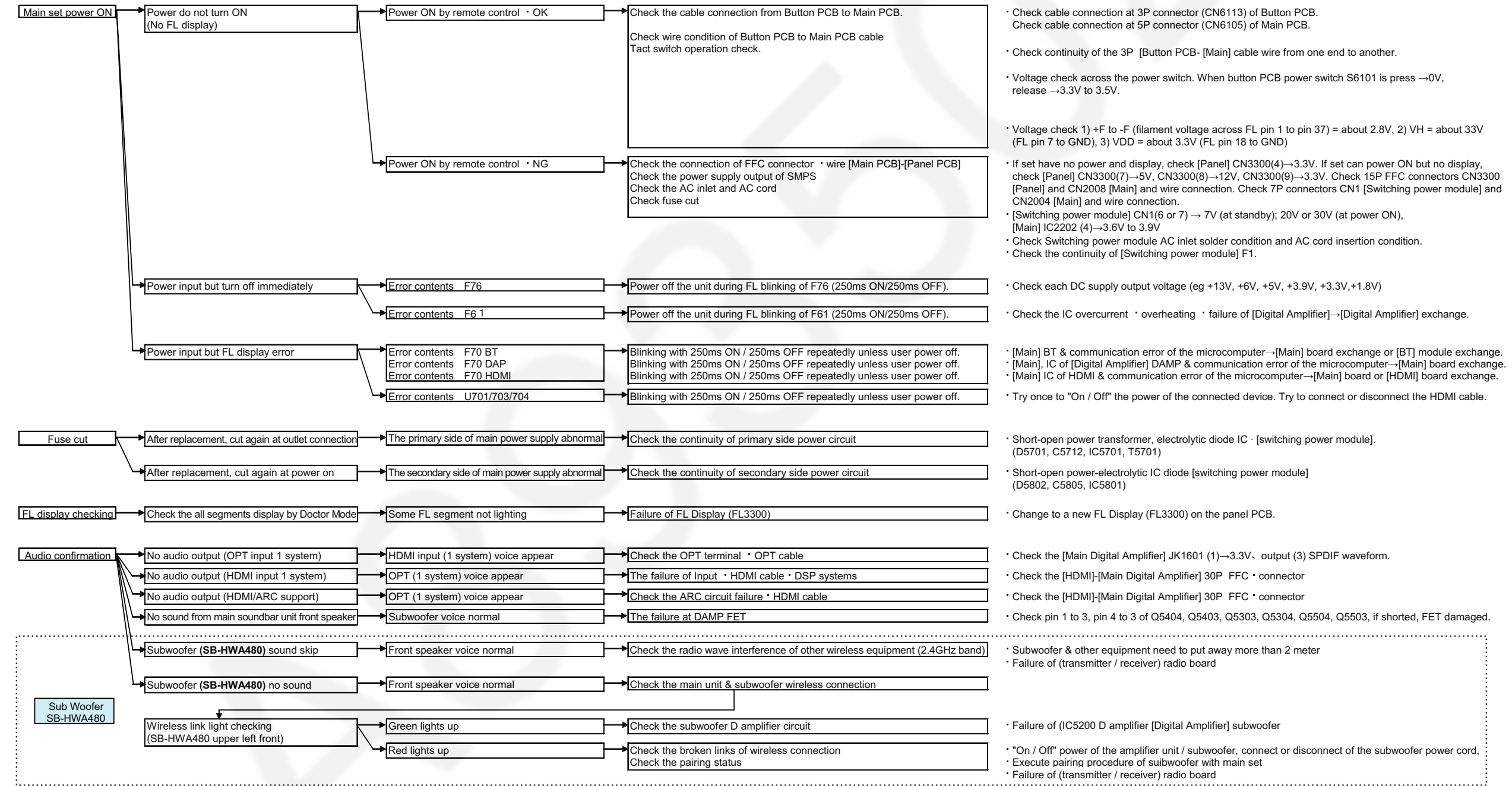
Use the flowchart below to verify malfunctions of the unit.

● Reset Method (Factory Shipment Status)

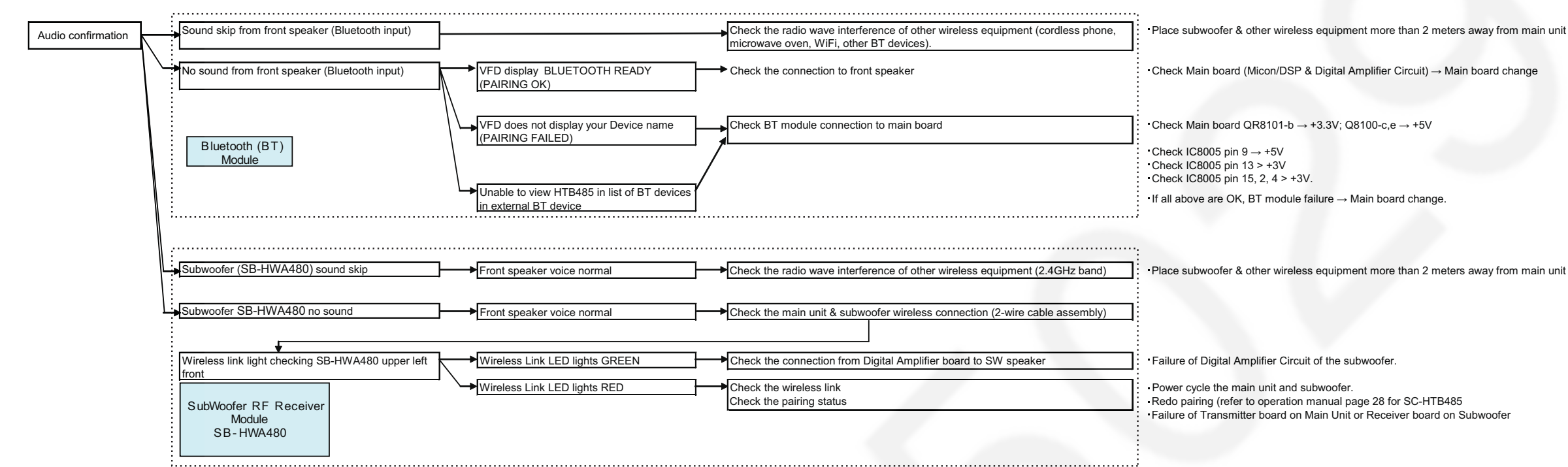
1. Turn on the power of main set.
2. Press and hold the power button for 4 seconds then FL display will show RESET for 2 seconds.
3. Turn off the power.

● 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 HTB485)
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 +1.8V is present	IC1101 (Pin 1) , IC1000 (Pins refer to Schematic)	+1.8V 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)	+5V supply is present
	5) Parts availability and solderability condition		
	i) HDMI Tx/Rx LSI	IC1000	All pins fully soldered. No Short.
	ii) TMDS output swing amplitude control resistor	R1001	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	TU1350	No missing and all pins fully soldered. No Short.
	vii) HDMI Input Common-Mode Choke	L1350, L1351	No missing and all pins fully soldered. No Short.
	viii) HDMI Input +5V detect	D1106	No missing and all pins fully soldered. No Short.
	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	There is connection from IC1000 pin to TU1350 pin
	7) HDMI Communication line checking		
	i) HDMI I2C control line from Main Micon	CN1000 (Pin 22 & 23), IC1000 (Pin 78 & 79)	There is signal 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 17)	There is SPDIF signal present (Duty Cycle > 50%)
	For Multi-ch Source : Check HDMI I2S lines	CN1000 (Pin 12,13,14,14)	There is signal present when playing
	ii) Check HDMI LRCK and SCLK line	CN1000 (Pin 9, 10)	There is signal present when playing
	2) Parts solderability condition		
	i) HDMI SPDIF line	R1006	No missing and all pins fully soldered. No Short.
	ii) HDMI I2S lines	FL/FR : RX1002 pin 7,8	No missing and all pins fully soldered. No Short.
		C/LFE : RX1002 pin 5,6	
		SL/SR : RX1002 pin 3,4	
		SBL/SBR :RX1002 pin 1,2	
	iii) HDMI LRCK and SCLK line	R1007, R1008	No missing and all pins fully soldered. No Short.
	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)	+5V suply is present
	3) Parts availability and solderability 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	R1001	No missing and all pins fully soldered. No Short.

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 Speaker Unit (SU-HTB485)

- Disassembly of Rear Cabinet Block
- Disassembly of Tilt Switch P.C.B.
- Disassembly of SMPS P.C.B.
- Disassembly of Panel P.C.B.
- Disassembly of NFC P.C.B.
- Disassembly of Digital Transmitter Module
- Disassembly of HDMI P.C.B.
- Disassembly of Main P.C.B.
- Disassembly of Button P.C.B.
- Disassembly of Woofer Speaker (SP1)
- Disassembly of Woofer Speaker (SP2)

Disassembly of Active Subwoofer (SB-HWA480)

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

8.1. Service Fixture & Tools

Prepare service tools before process service position.

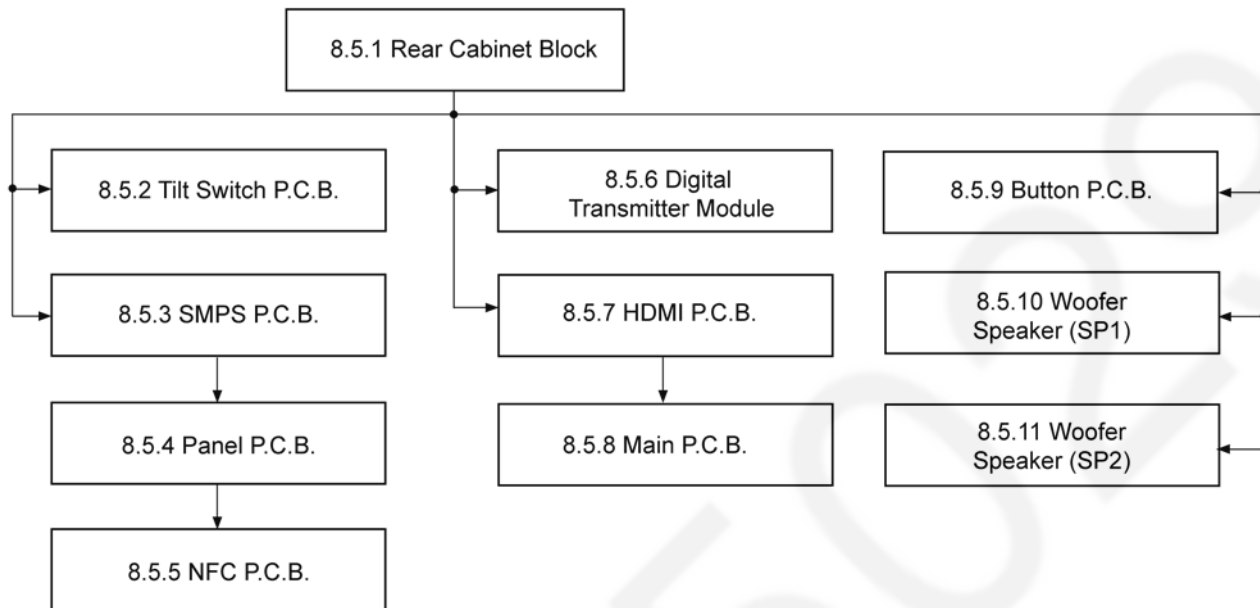
Ref. No.	Service Tools		Remarks
SFT1	2P WIRE (SPK-SW DAMP)	REXX1194 (2P Extension Cable)	SB-HWA480

8.2. Disassembly flow chart

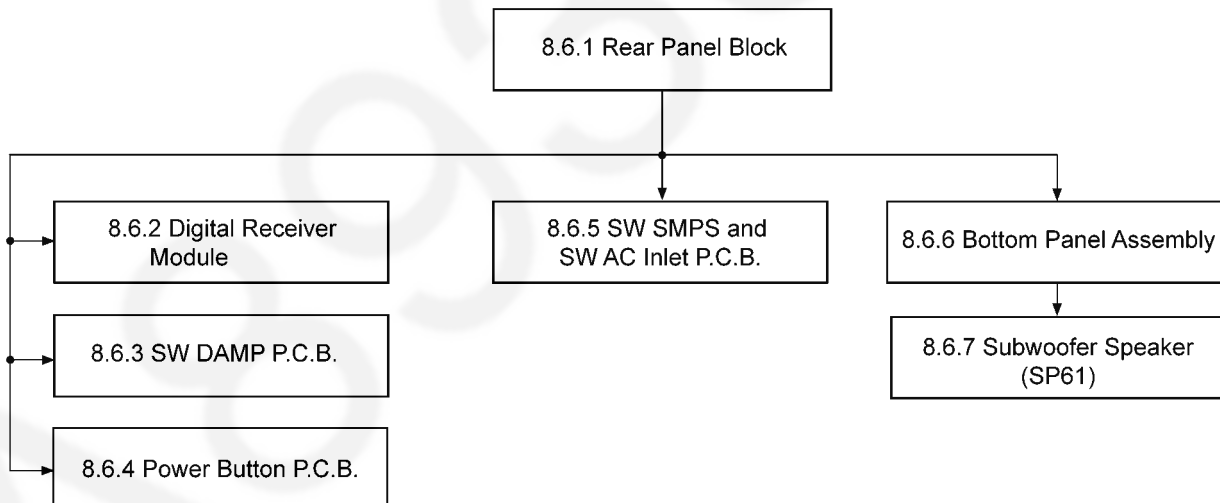
The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.

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

8.2.1. Main Speaker Unit (SU-HTB485)



8.2.2. Active Subwoofer (SB-HWA480)



8.3. Types of Screws

8.3.1. Main Speaker Unit (SU-HTB485)

CAUTION NOTE:

Please use original screw and at correct locations.

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

- a** : XTB3+12JFJK
- b** : XTB3+10JFJ
- c** : RHD301002
- d** : RHD14136

8.3.2. Active Subwoofer (SB-HWA480)

CAUTION NOTE:

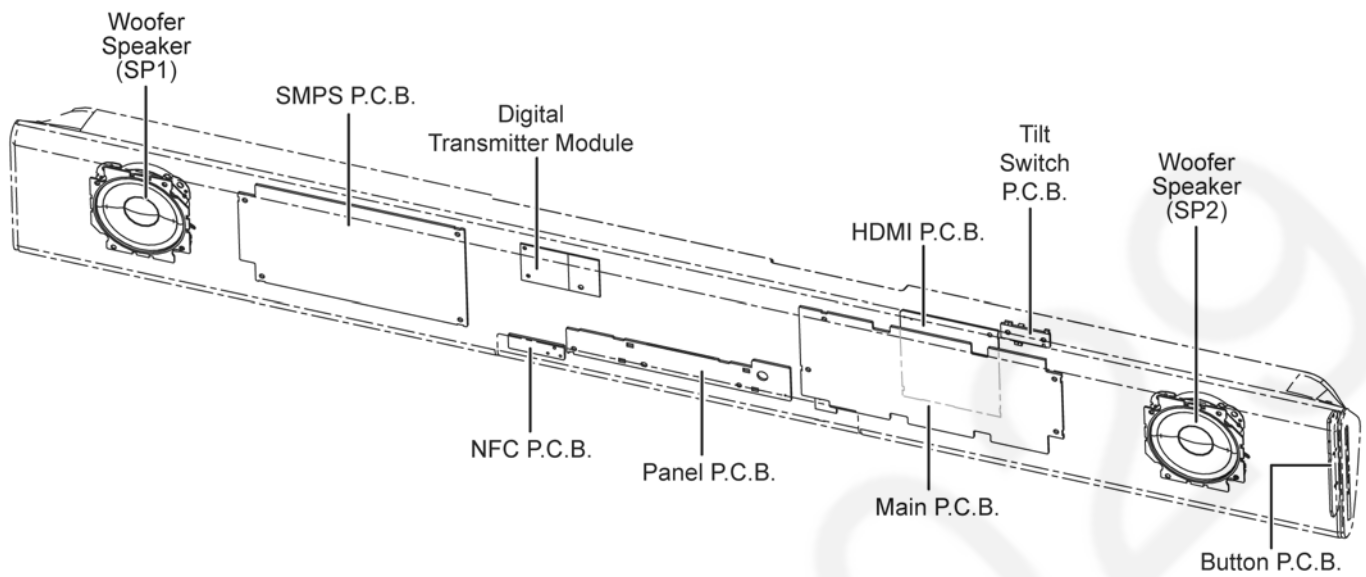
Please use original screw and at correct locations.

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

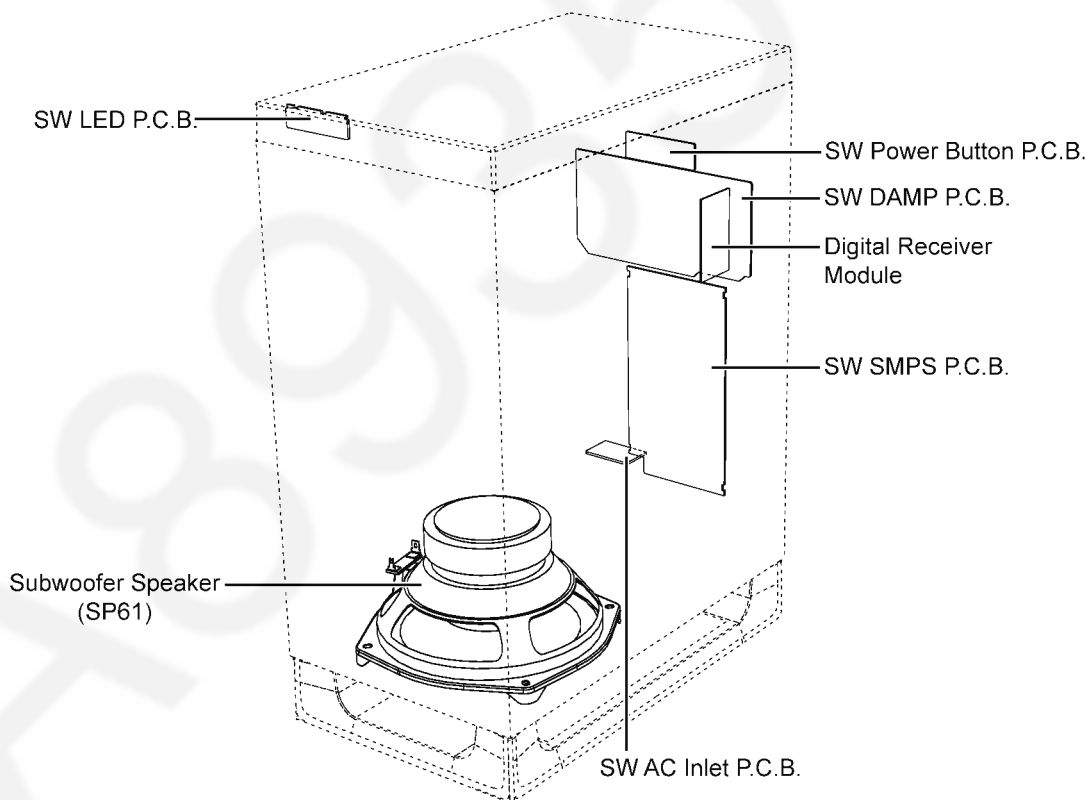
- a** : XTB4+16AFJK
- b** : RHD301005
- d** : XTB3+10JFJK

8.4. Main Parts Location Diagram

8.4.1. Main Speaker Unit (SU-HTB485)



8.4.2. Active Subwoofer (SB-HWA480)



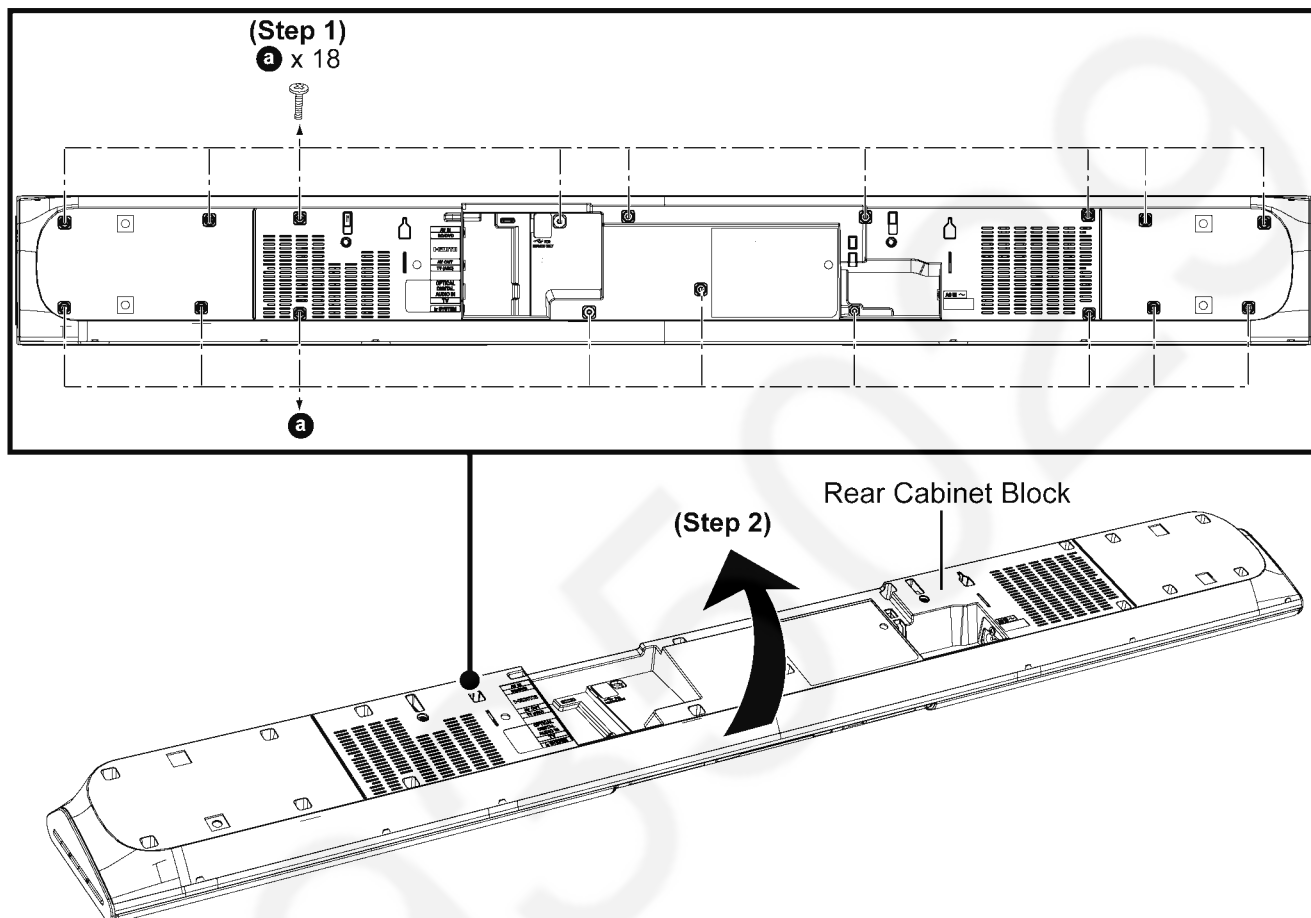
8.5. Disassembly of Main Speaker Unit

8.5.1. Disassembly of Rear Cabinet Block

Step 1 : Remove 18 screws.

Step 2 : Lift up Rear Cabinet Block.

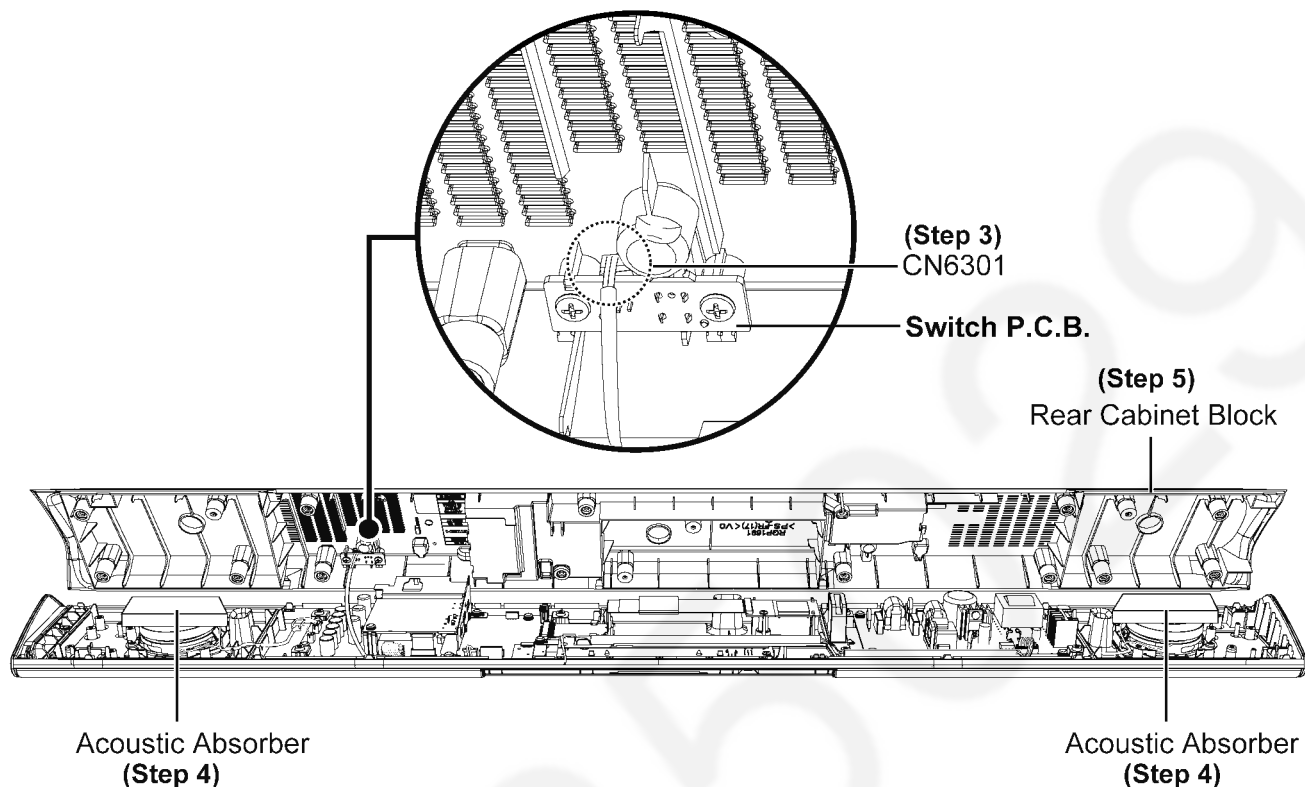
Caution : Do not exert too much force as it may damage the wiring within.



Step 3 : Detach 2P wire at connector (CN6301) on Switch P.C.B..

Step 4 : Remove Acoustic Absorbers.

Step 5 : Remove Rear Cabinet Block.

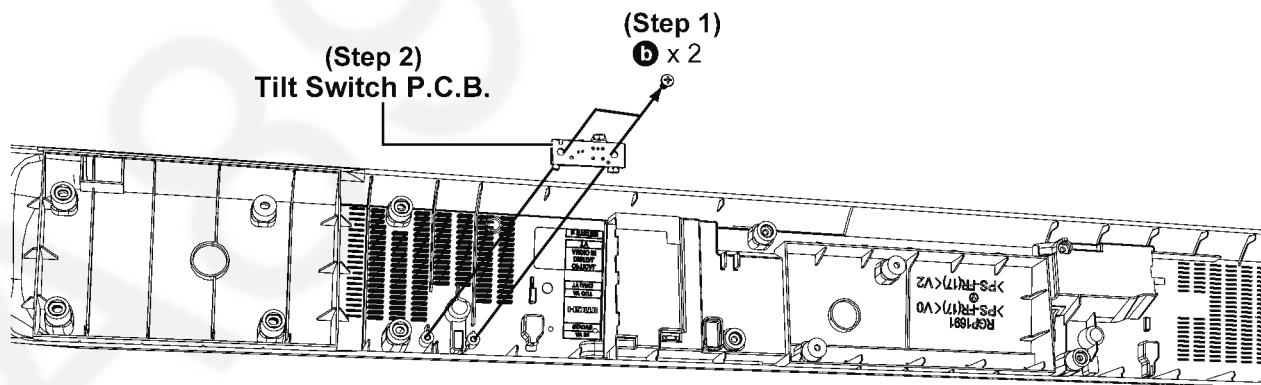


8.5.2. Disassembly of Tilt Switch P.C.B.

- Refer to "Disassembly of Rear Cabinet Block".

Step 1 : Remove 2 screws.

Step 2 : Remove Tilt Switch P.C.B..



8.5.3. Disassembly of SMPS P.C.B.

- Refer to "Disassembly of Rear Cabinet Block".

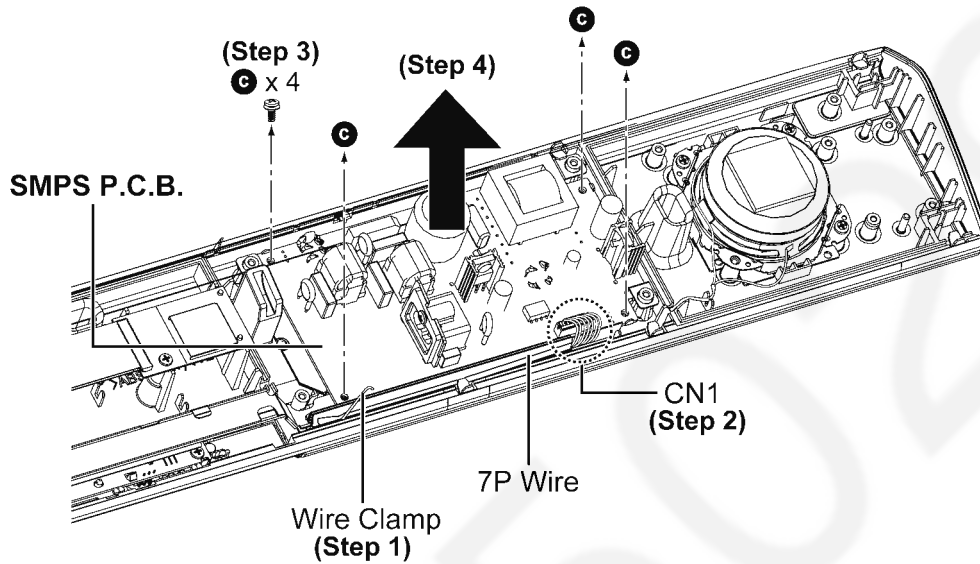
•

Step 1 : Lift up Wire Clamp.

Step 2 : Detach 7P wire at connector (CN1) on SMPS P.C.B..

Step 3 : Remove 4 screws.

Step 4 : Remove SMPS P.C.B..

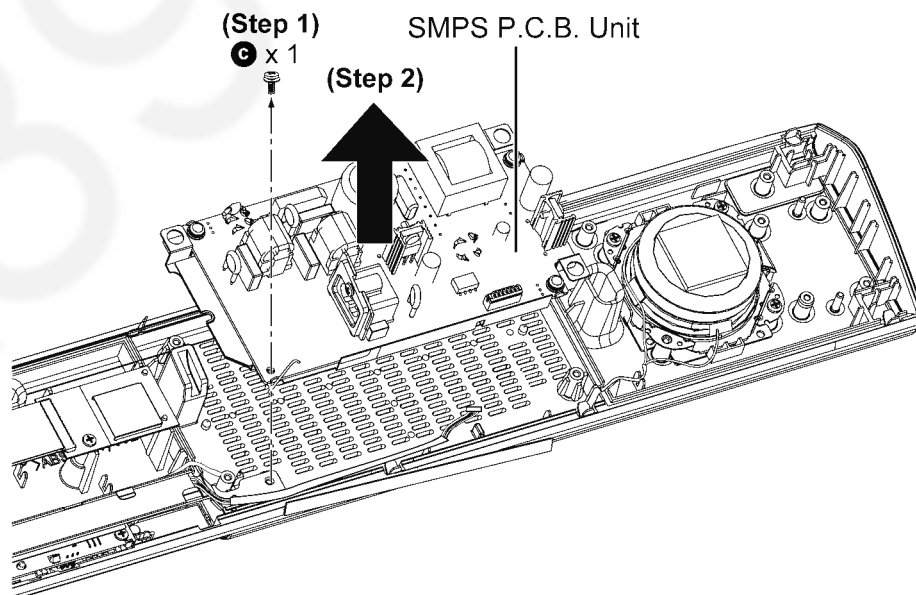


8.5.4. Disassembly of Panel P.C.B.

- Refer to "Disassembly of Rear Cabinet Block".
- Refer to (Step 1) - (Step 2) of item 8.5.3.

Step 1 : Remove 1 screw.

Step 2 : Remove SMPS P.C.B. Unit.

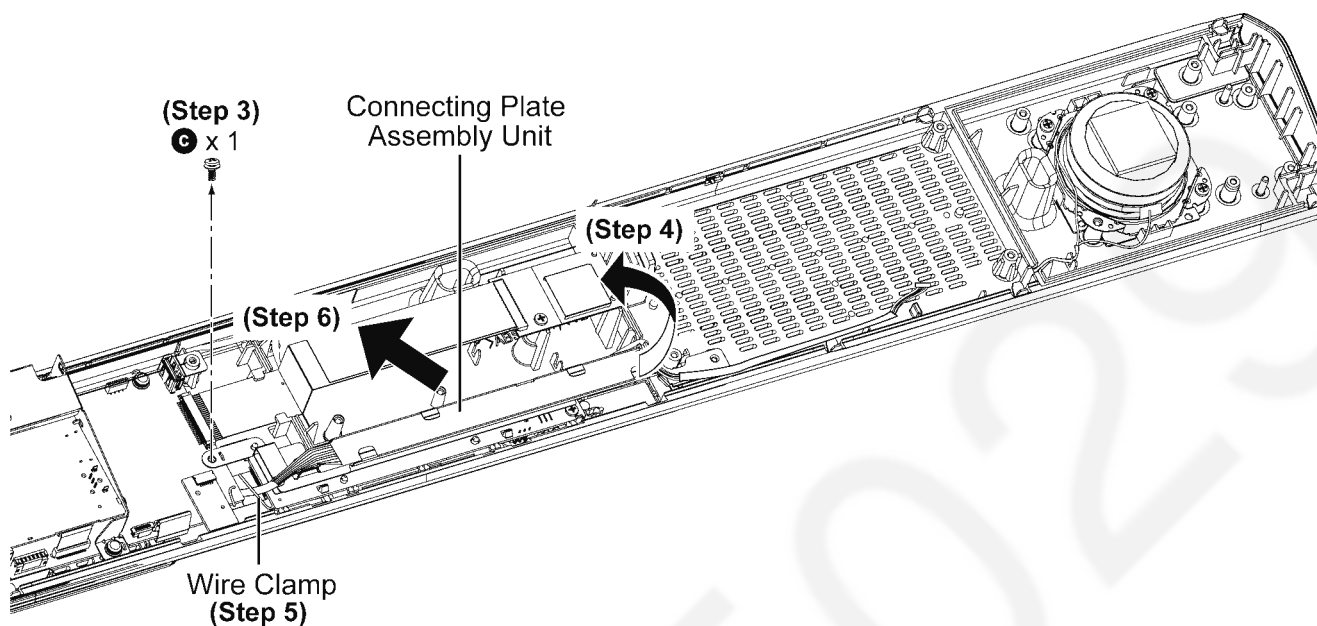


Step 3 : Remove 1 screw.

Step 4 : Lift up Connecting Plate Assembly Unit.

Step 5 : Lift up Wire Clamp.

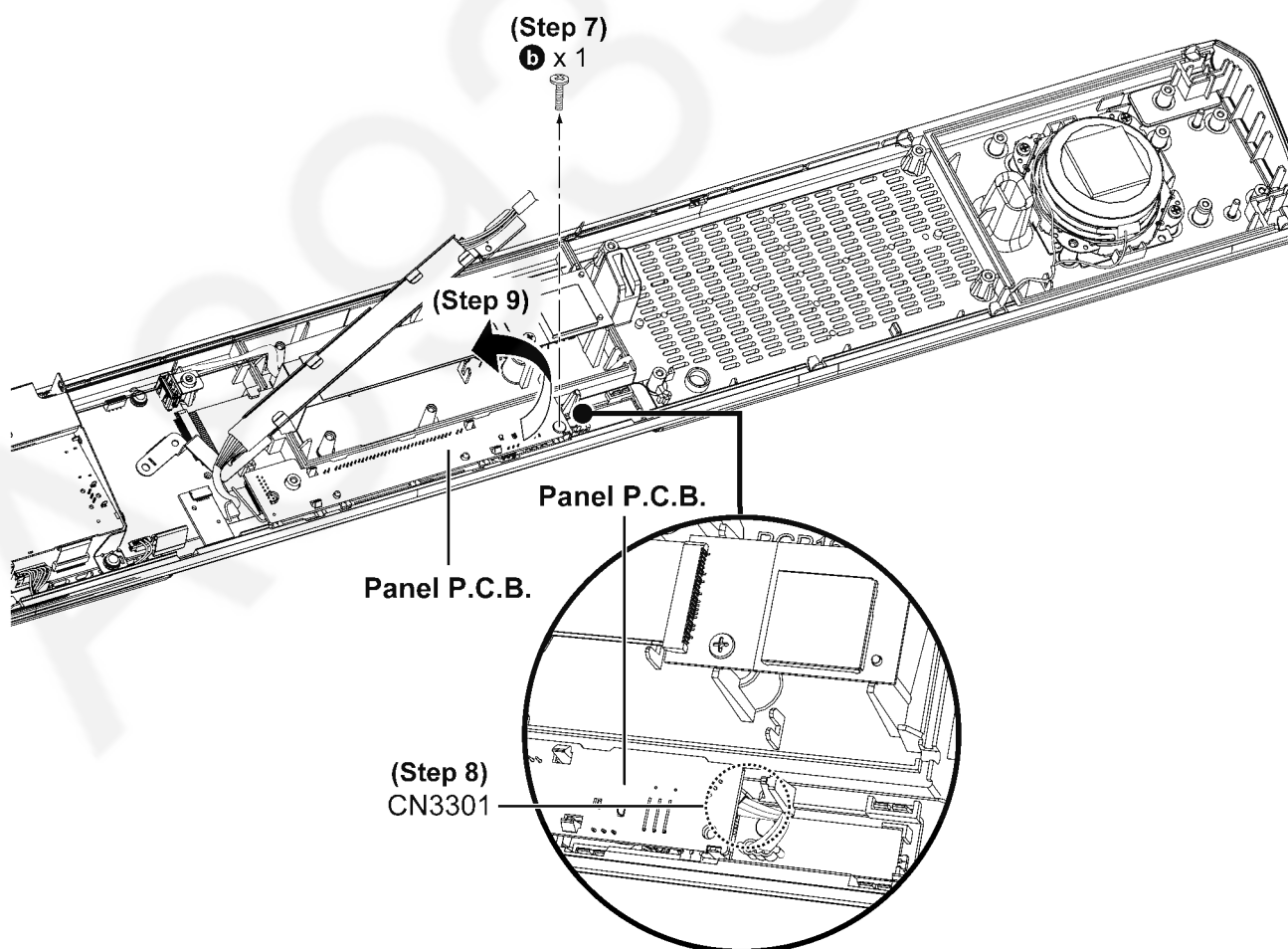
Step 6 : Upset Connecting Plate Assembly Unit.



Step 7 : Remove 1 screw.

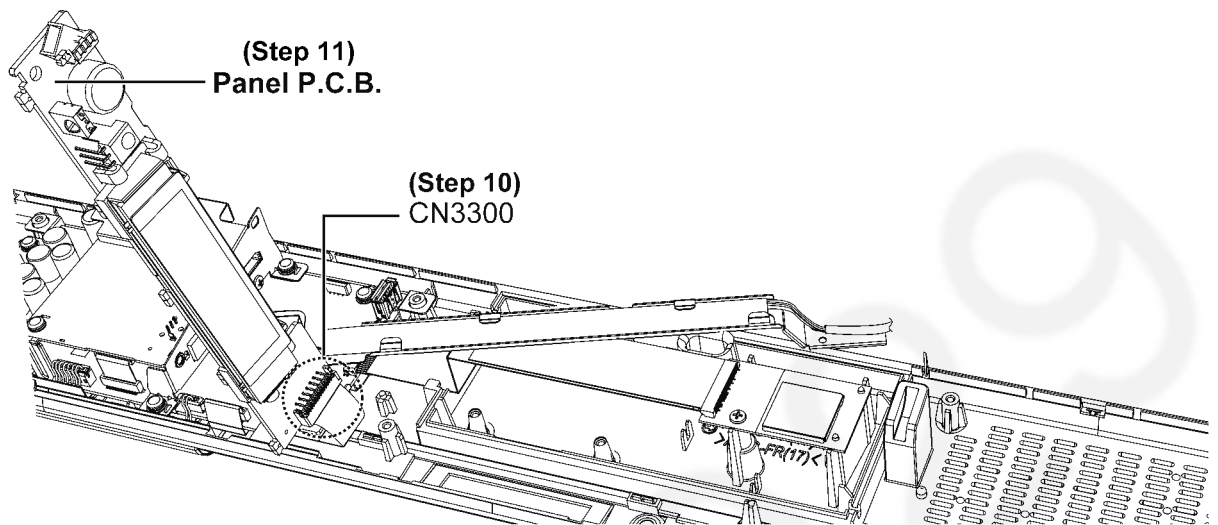
Step 8 : Detach 3P wire at connector (CN3301) on Panel P.C.B..

Step 9 : Lift up Panel P.C.B..



Step 10 : Detach 15P FFC at connector (CN3300) on Panel P.C.B..

Step 11 : Remove Panel P.C.B..



8.5.5. Disassembly of NFC P.C.B.

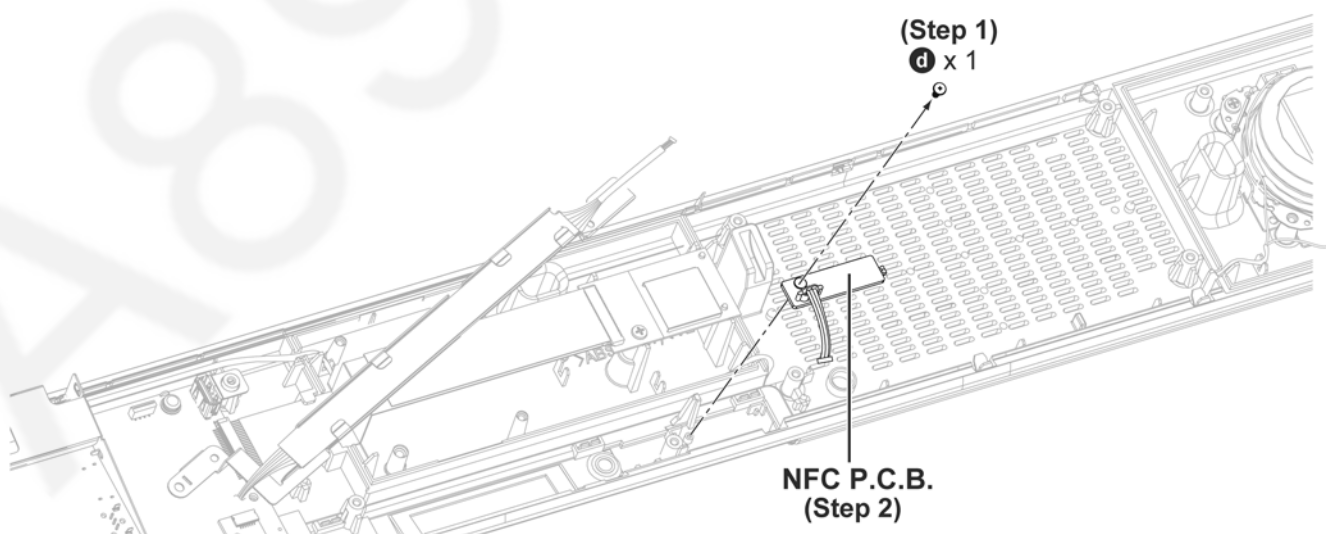
- Refer to "Disassembly of Rear Cabinet Block".
- Refer to (Step 1) - (Step 2) of item 8.5.3.
- Refer to "Disassembly of Panel P.C.B.".

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 : Remove 1 screw.

Step 2 : Remove NFC P.C.B..



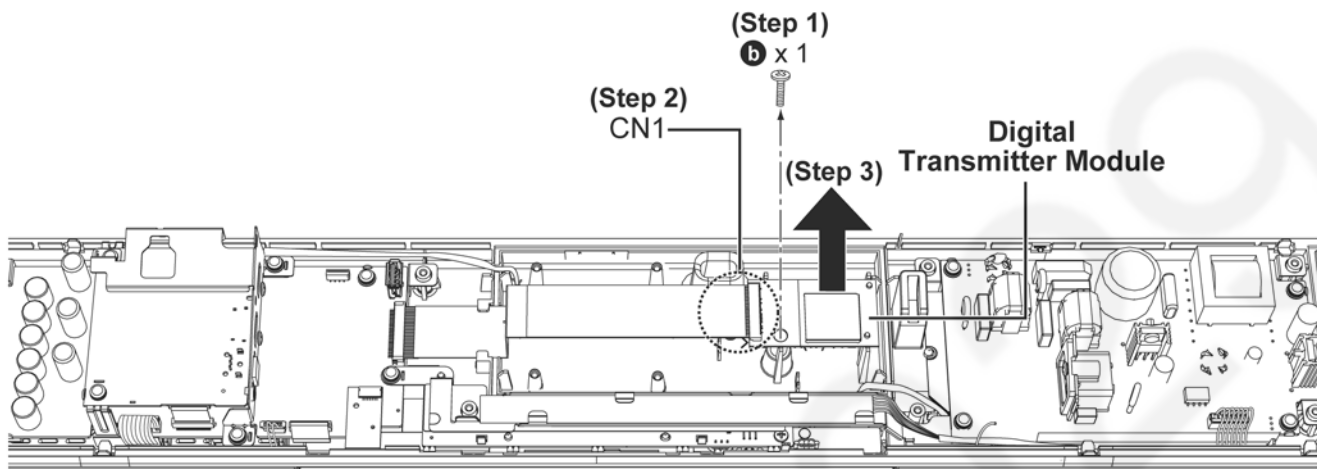
8.5.6. Disassembly of Digital Transmitter Module

- 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.



8.5.7. Disassembly of HDMI P.C.B.

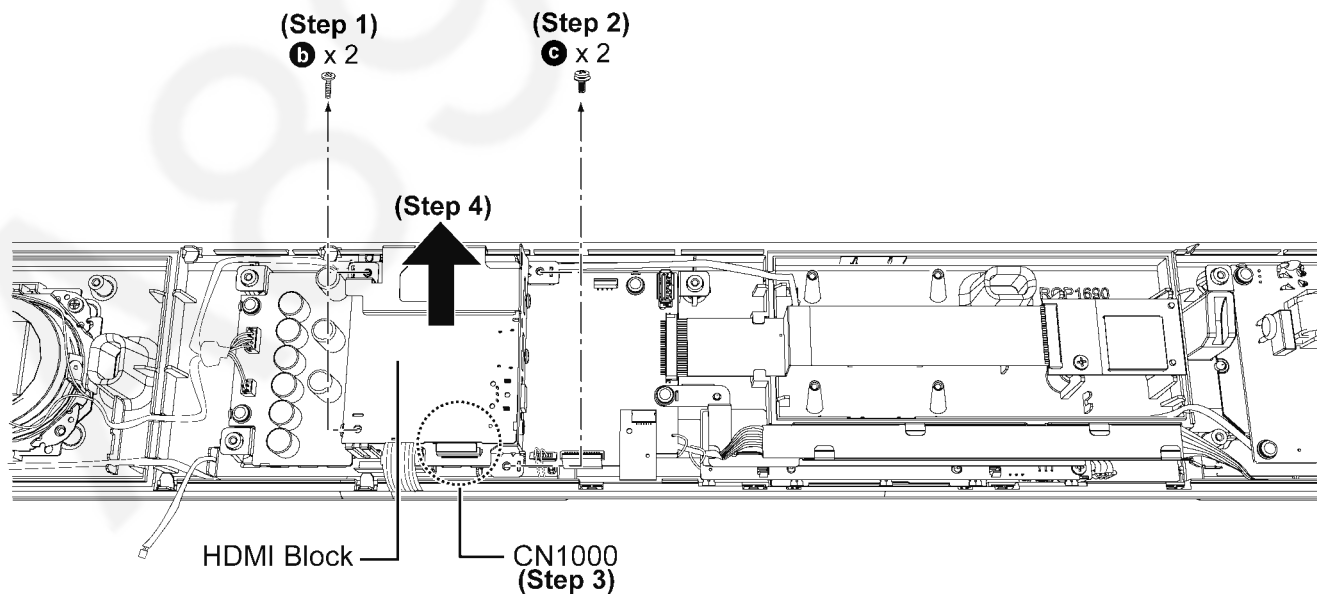
- Refer to “Disassembly of Rear Cabinet Block”.

Step 1 : Remove 2 screws.

Step 2 : Remove 2 screws.

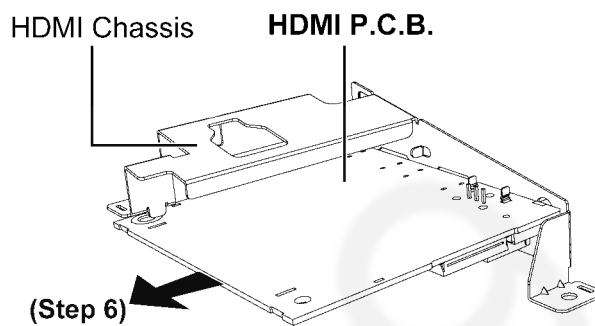
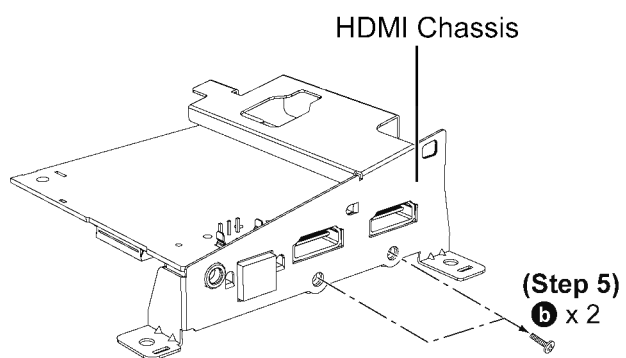
Step 3 : Detach 30P FFC at connector (CN1000) on HDMI P.C.B..

Step 4 : Remove HDMI Block.



Step 5 : Remove 2 screws.

Step 6 : Remove HDMI P.C.B..



8.5.8. Disassembly of Main P.C.B.

- Refer to "Disassembly of Rear Cabinet Block".
- Refer to (Step 1) - (Step 4) of item 8.5.7.

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 24P FFC at connector (CN2005) on Main P.C.B..

Step 2 : Detach 15P FFC at connector (CN2008) on Main P.C.B..

Step 3 : Detach 5P wire at connector (CN6105) on Main P.C.B..

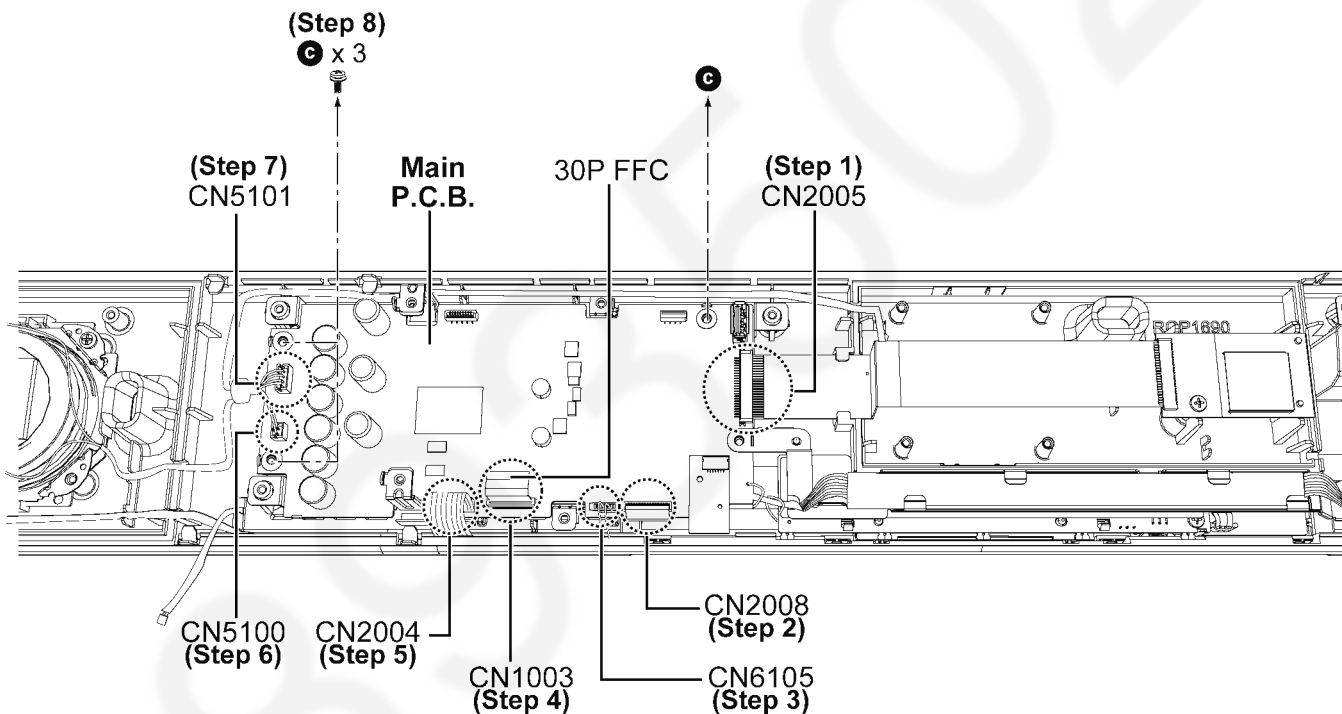
Step 4 : Detach 30P FFC at connector (CN1003) on Main P.C.B..

Step 5 : Detach 7P wire at connector (CN2004) on Main P.C.B..

Step 6 : Detach 2P wire at connector (CN5100) on Main P.C.B..

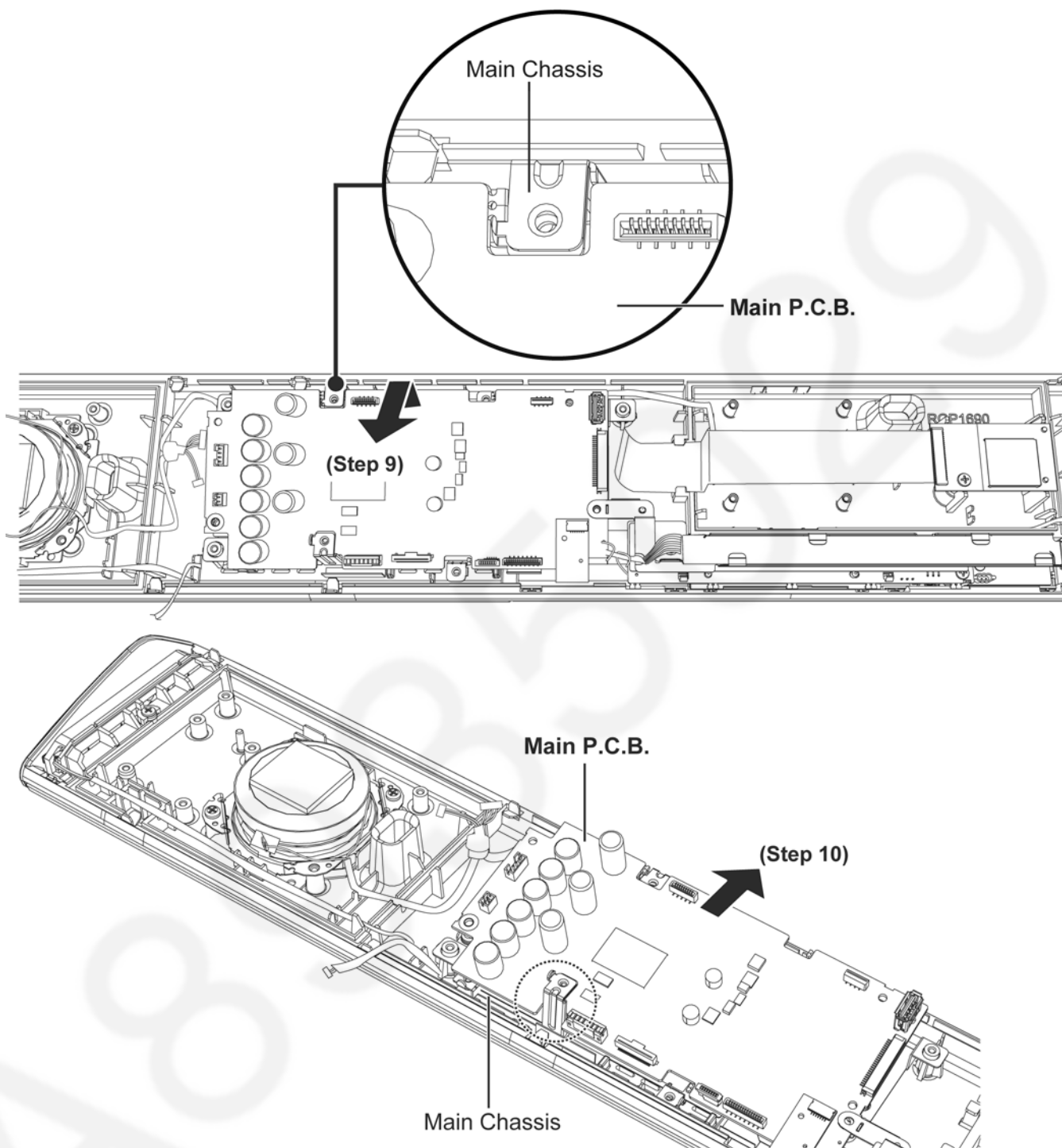
Step 7 : Detach 4P wire at connector (CN5101) on Main P.C.B..

Step 8 : Remove 3 screws.



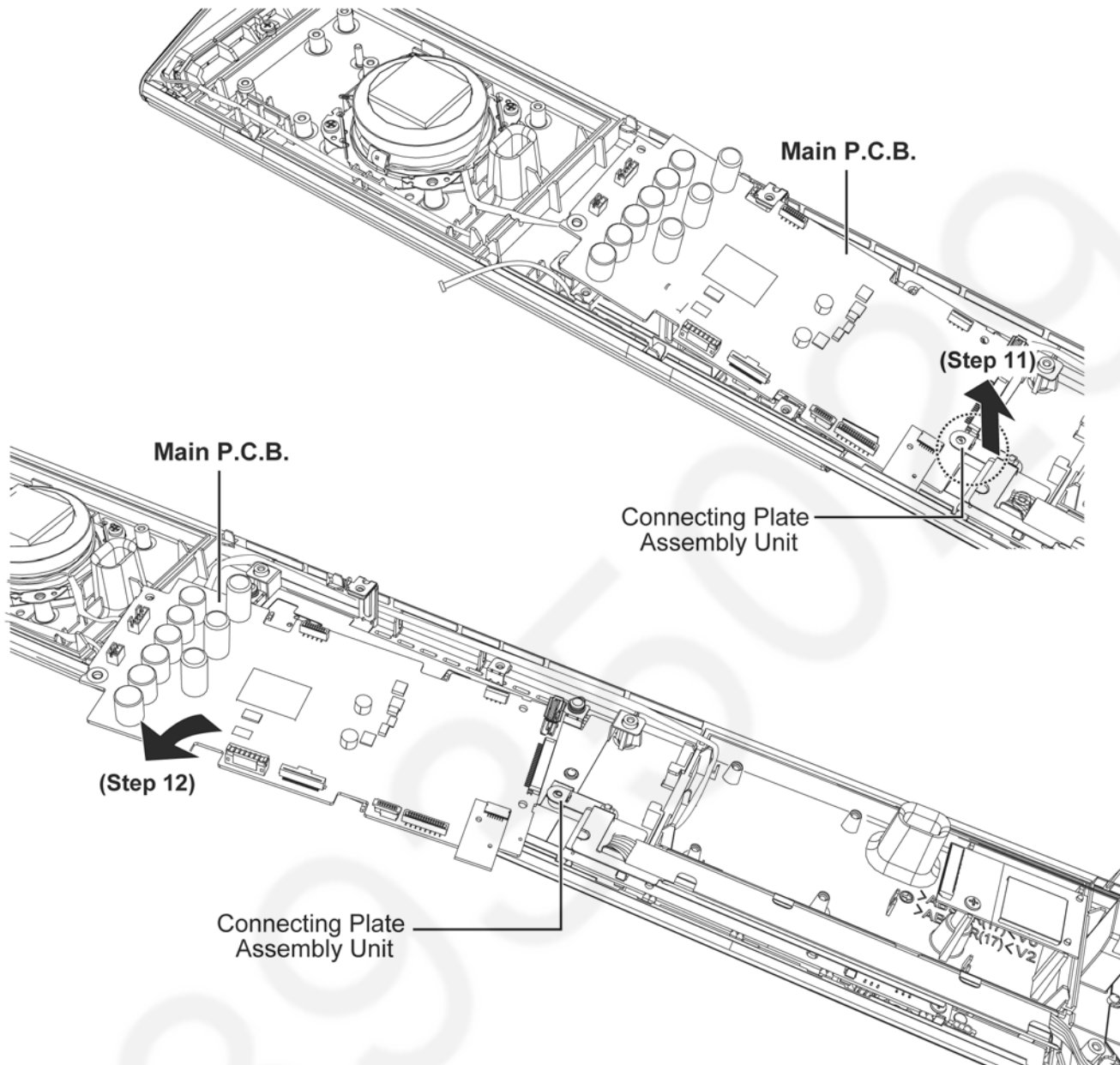
Step 9 : Slightly lift up Main P.C.B..

Step 10 : Remove Main P.C.B..



Step 11 : Slightly lift up Connecting Plate Assembly Unit.

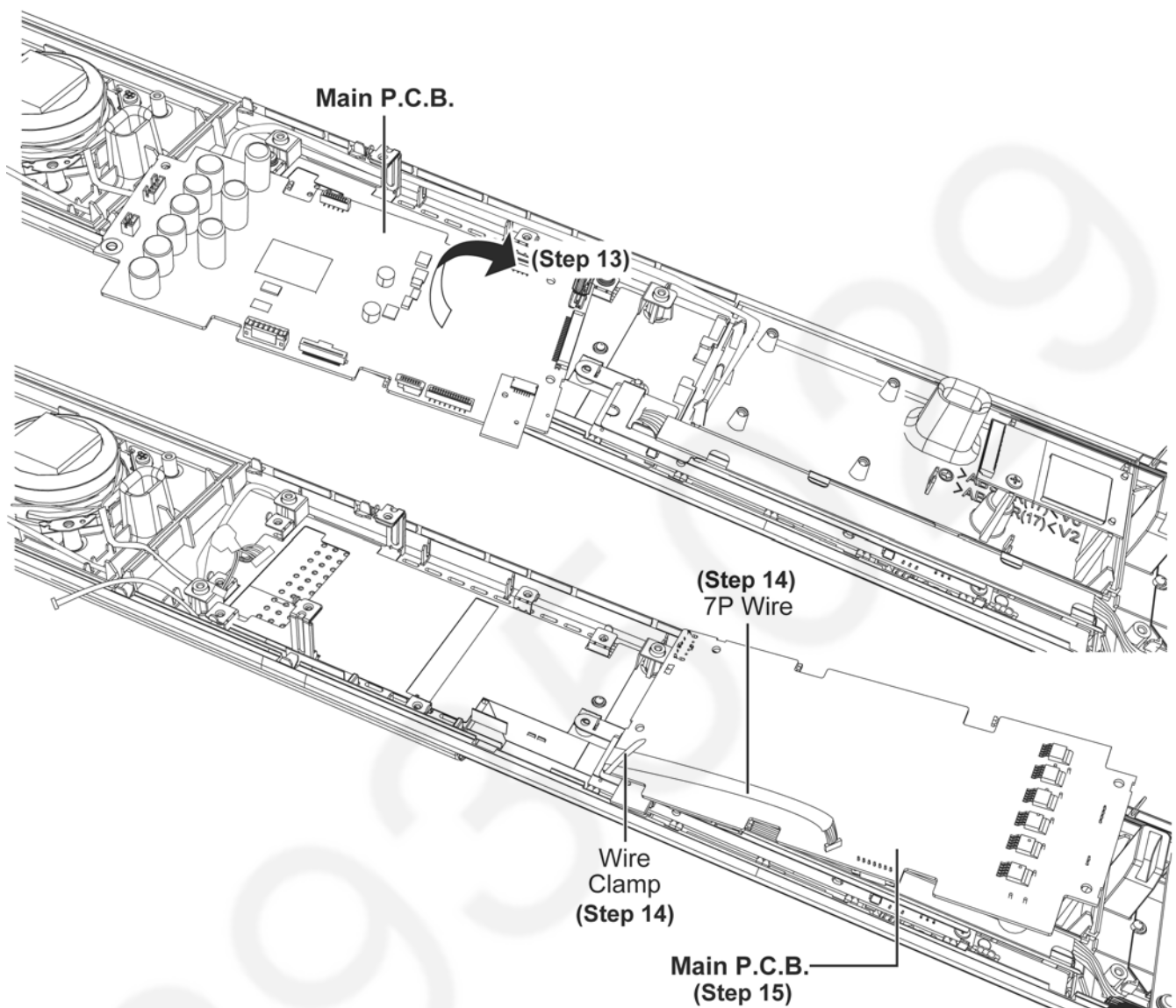
Step 12 : Release Main P.C.B..



Step 13 : Upset Main P.C.B..

Step 14 : Lift up Wire Clamp to release 7P wire.

Step 15 : Remove Main P.C.B..



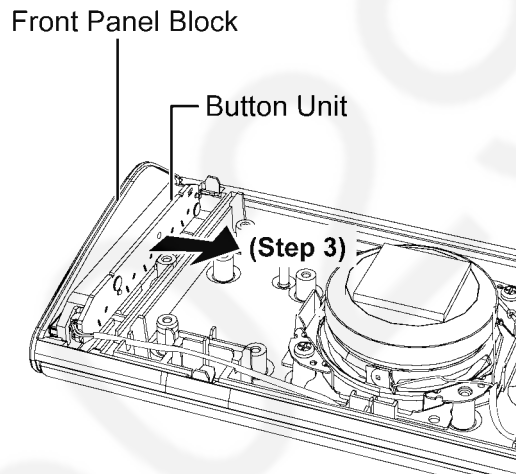
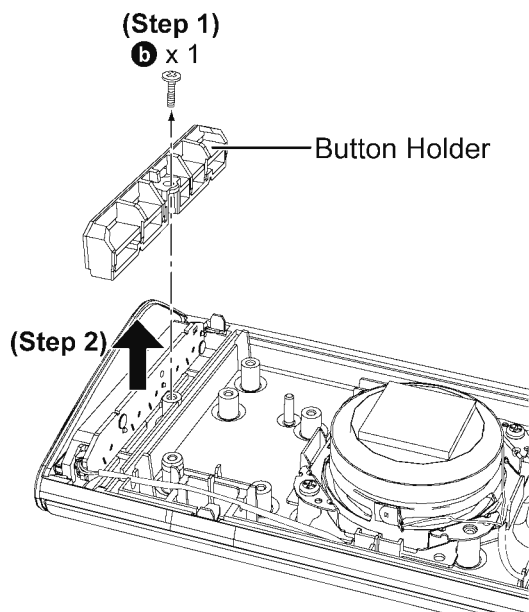
8.5.9. Disassembly of Button P.C.B.

- Refer to "Disassembly of Rear Cabinet Block".

Step 1 : Remove 1 screw.

Step 2 : Remove Button Holder.

Step 3 : Release Button Unit from Front Panel Block.

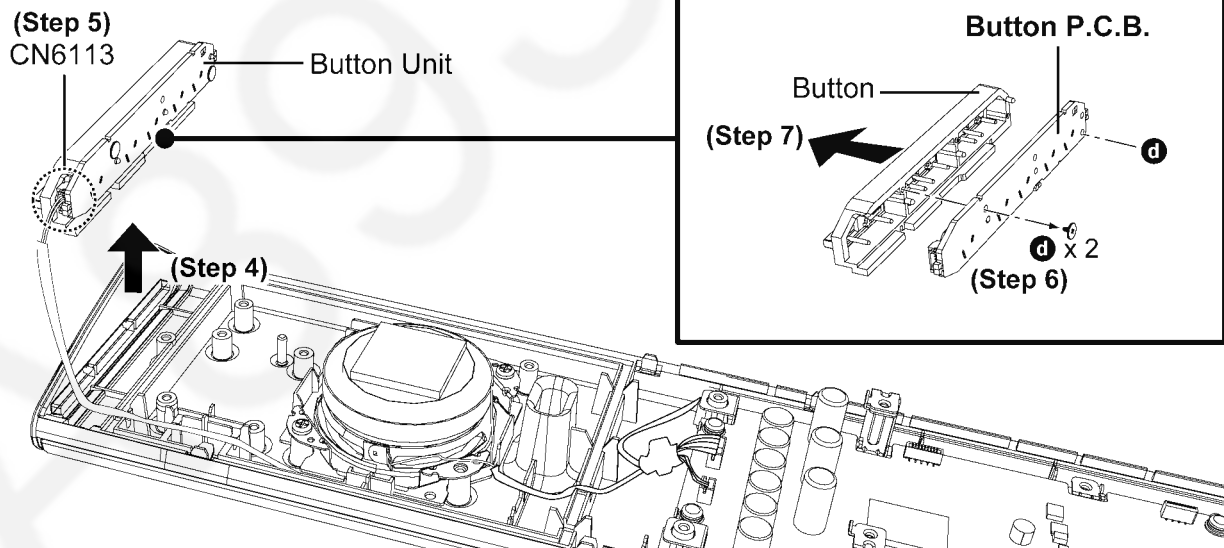


Step 4 : Lift up Button Unit.

Step 5 : Detach 3P wire at connector (CN6113) on Button P.C.B..

Step 6 : Remove 2 screws.

Step 7 : Remove Button P.C.B..



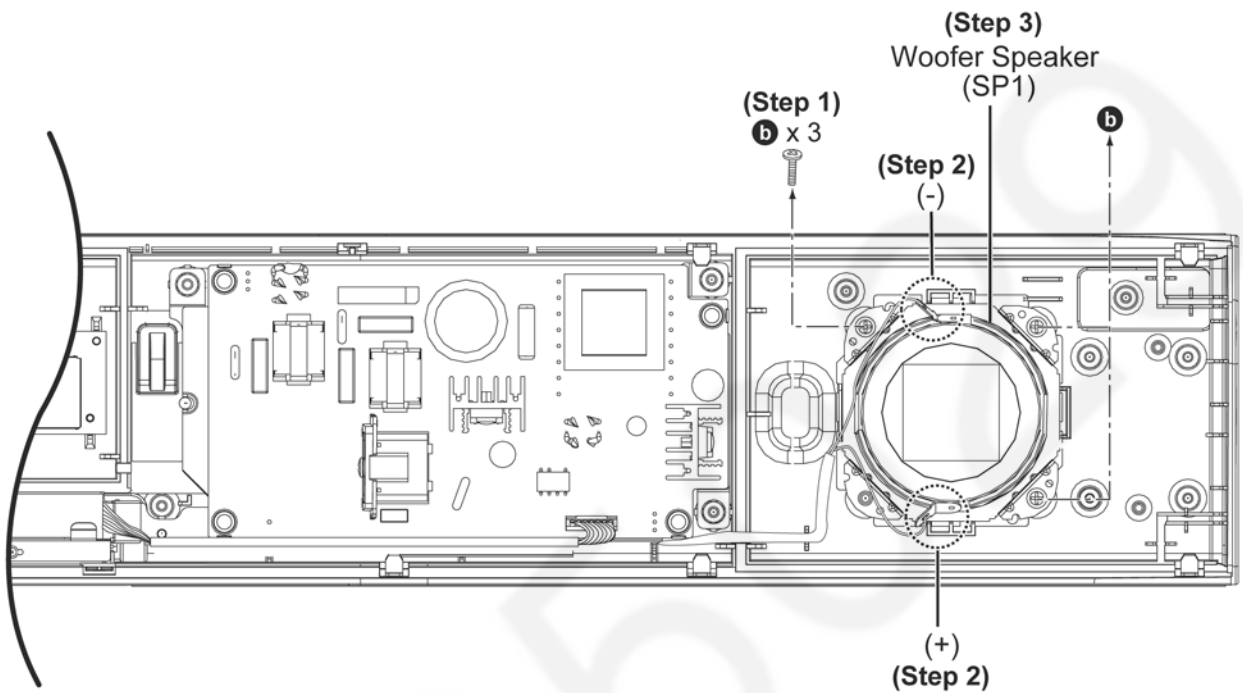
8.5.10. Disassembly of Woofer Speaker (SP1)

- Refer to "Disassembly of Rear Cabinet Block".

Step 1 : Remove 3 screws.

Step 2 : Detach speaker wire.

Step 3 : Remove Woofer Speaker (SP1).



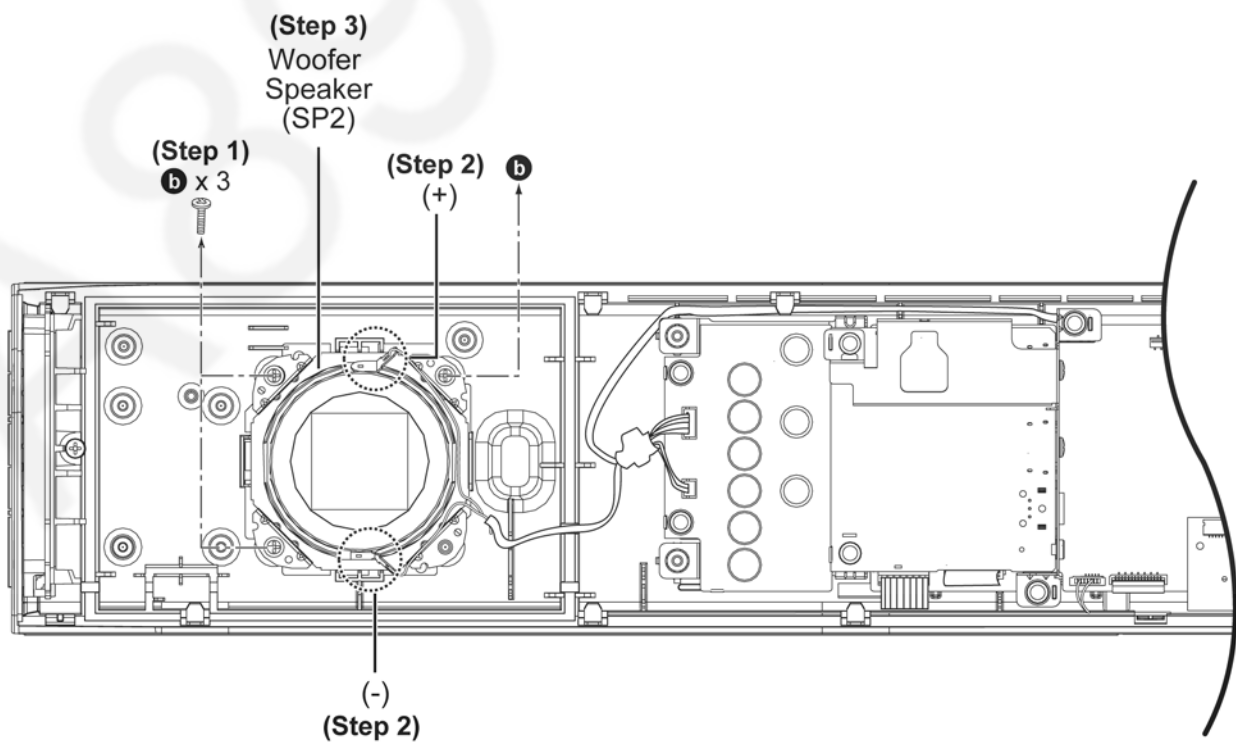
8.5.11. Disassembly of Woofer Speaker (SP2)

- Refer to "Disassembly of Rear Cabinet Block".

Step 1 : Remove 3 screws.

Step 2 : Detach speaker wire.

Step 3 : Remove Woofer Speaker (SP2).



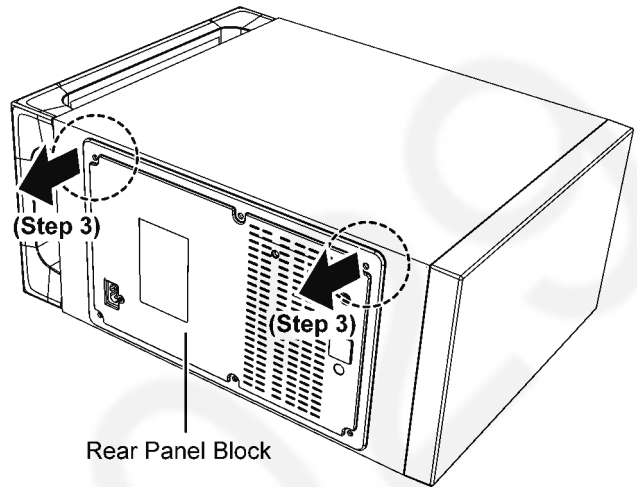
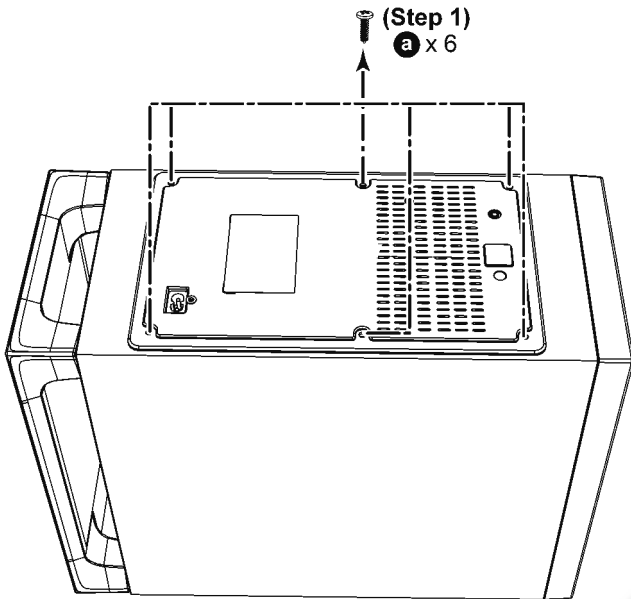
8.6. Disassembly of Active Subwoofer

8.6.1. Disassembly of Rear Panel Block

Step 1 : Remove 6 screws.

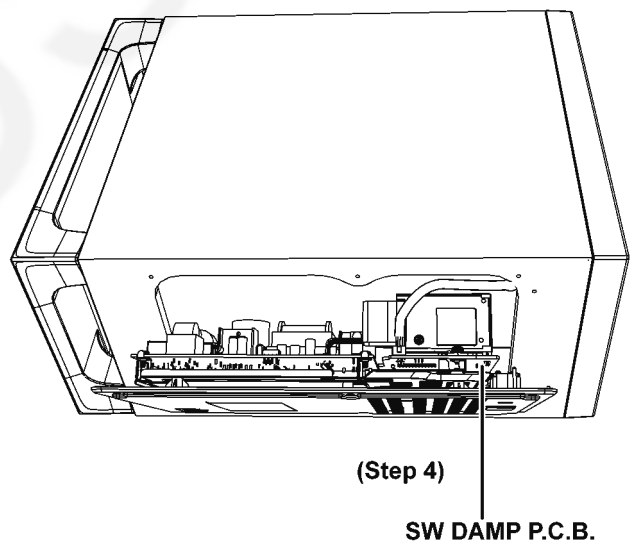
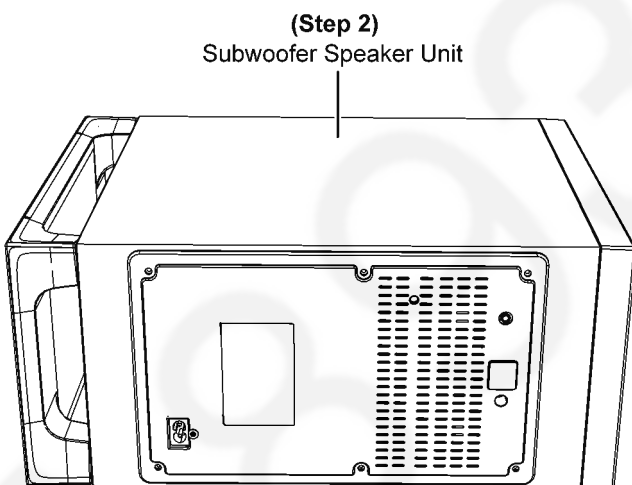
Step 3 : Slightly detach Rear Panel Block.

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



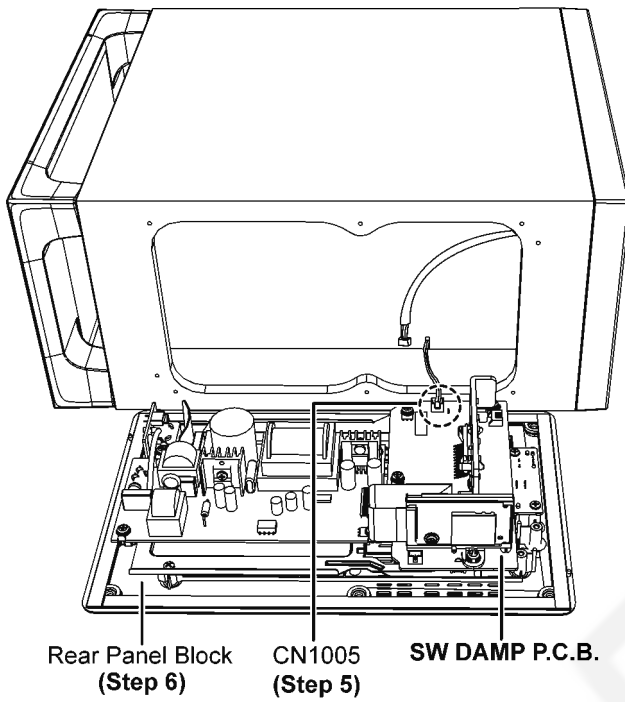
Step 4 : Detach 3P Cable Wire at connector (CN1003) on SW DAMP P.C.B..

Step 2 : Upset Subwoofer Speaker Unit.



Step 5 : Detach 2P Wire at connector (CN1005) on SW DAMP P.C.B..

Step 6 : Remove Rear Panel Block.

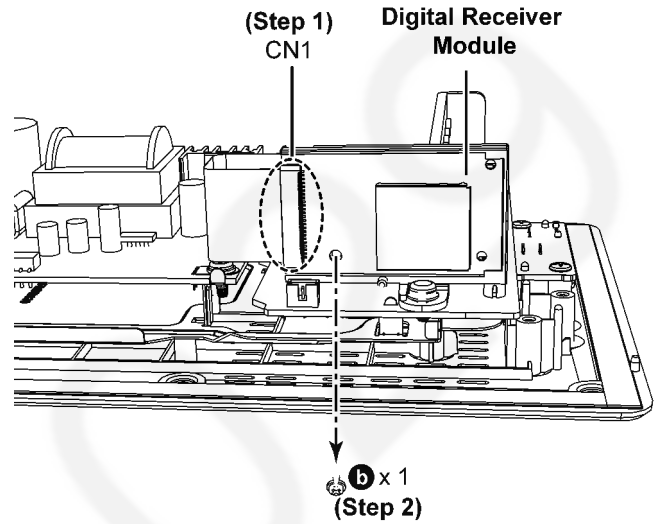


8.6.2. Disassembly of Digital Receiver Module

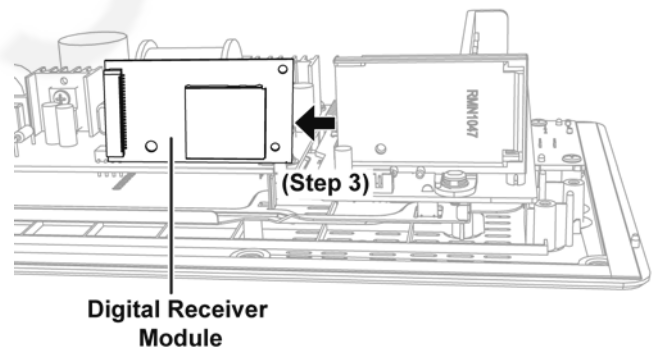
• Refer to "Disassembly of Rear Panel Block".

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

Step 2 : Remove 1 screw.



Step 3 : Remove Digital Receiver Module.

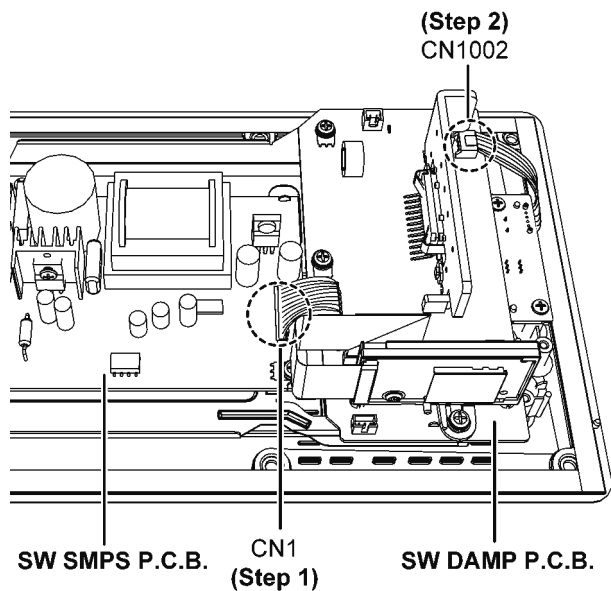


8.6.3. Disassembly of SW DAMP P.C.B.

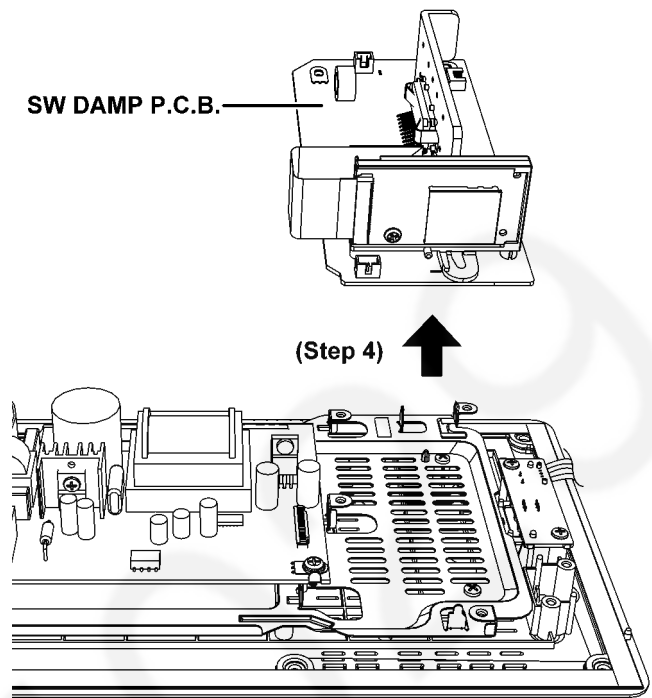
- Refer to “Disassembly of Rear Panel Block”.

Step 1 : Detach 10P Wire at connector (CN1) on SW SMPS P.C.B..

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

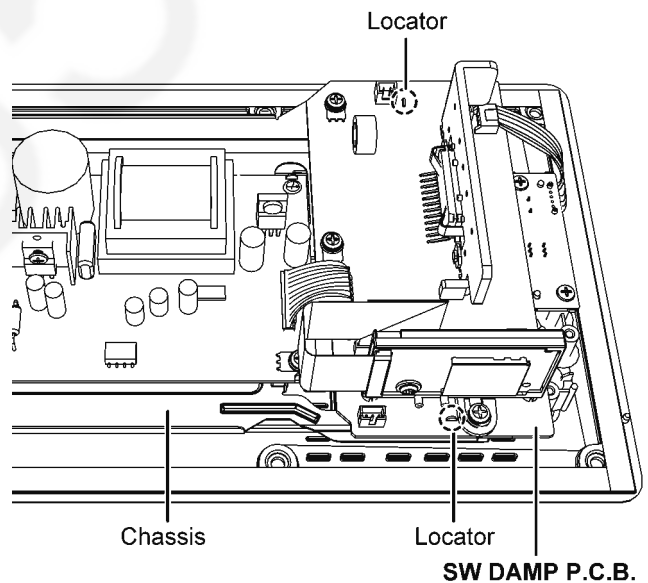
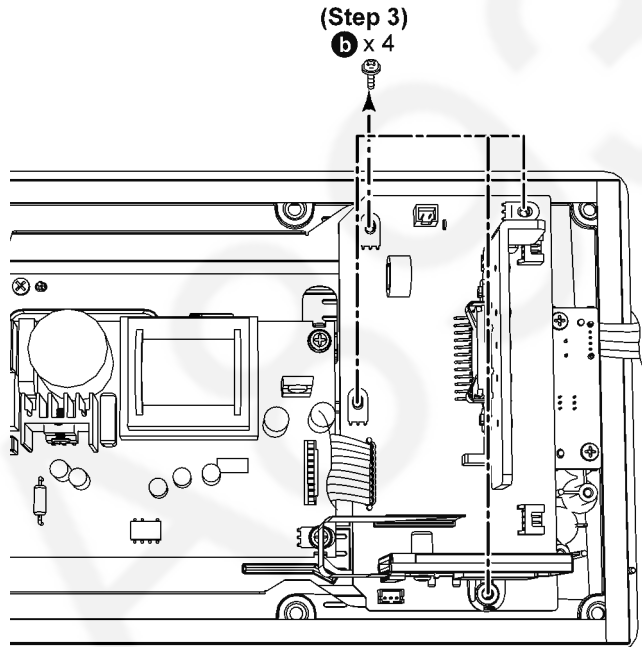


Step 4 : Remove SW DAMP P.C.B..

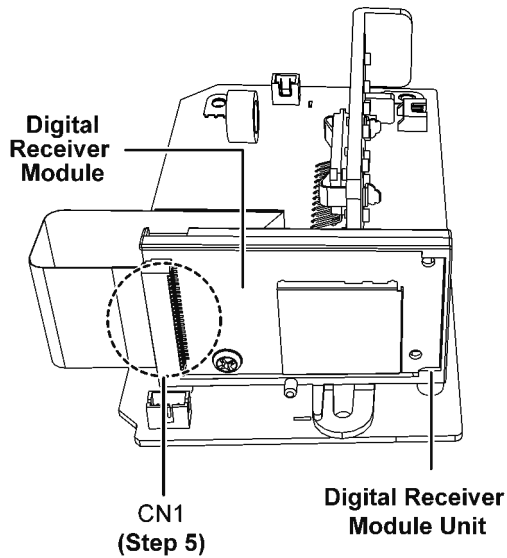


Caution: During assembling, ensure SW DAMP P.C.B. is seated properly onto the 2 locators of the chassis.

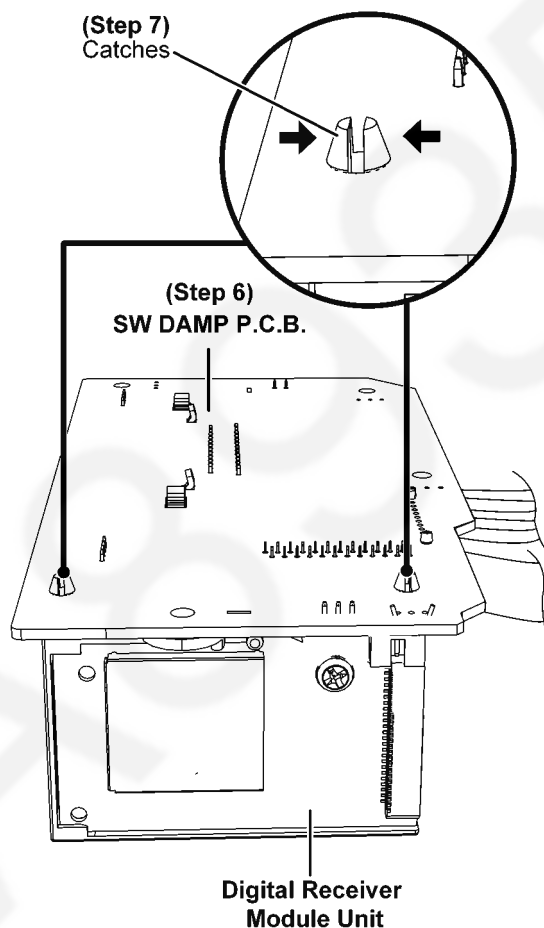
Step 3 : Remove 4 screws.



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

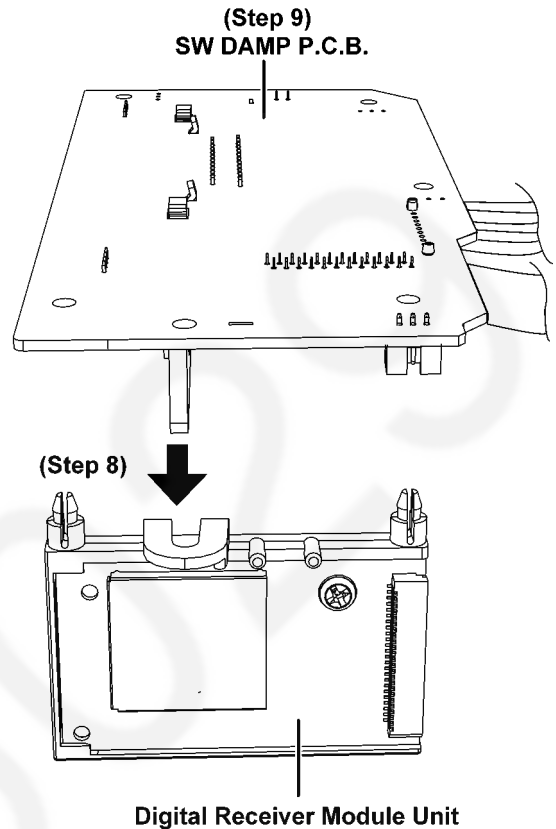


Step 6 : Upset SW DAMP P.C.B..
Step 7 : Push inward to release catches.



Step 8 : Remove Digital Receiver Module Unit.

Step 9 : Remove SW DAMP P.C.B..

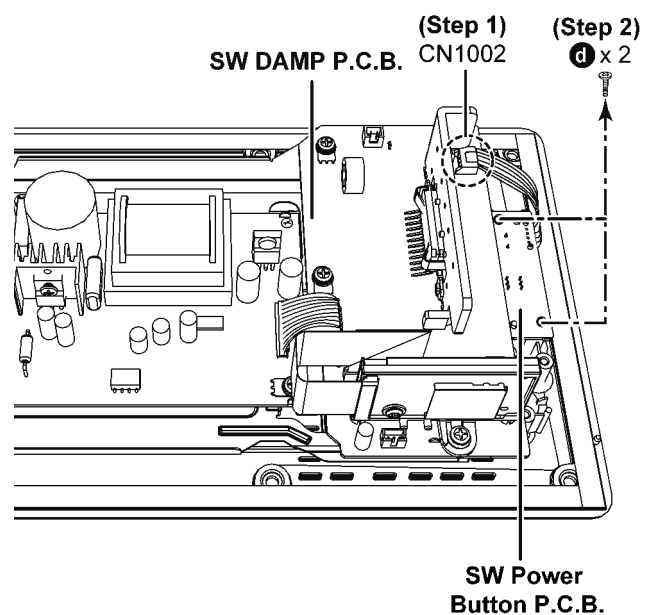


8.6.4. Disassembly of SW Power Button P.C.B.

• Refer to "Disassembly of Rear Panel Block".

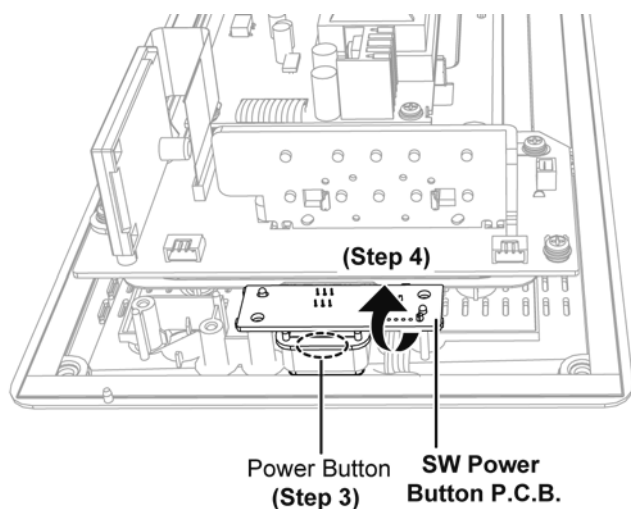
Step 1 : Detach 4P Wire at connector (CN1002) on SW DAMP P.C.B..

Step 2 : Remove 2 screws.

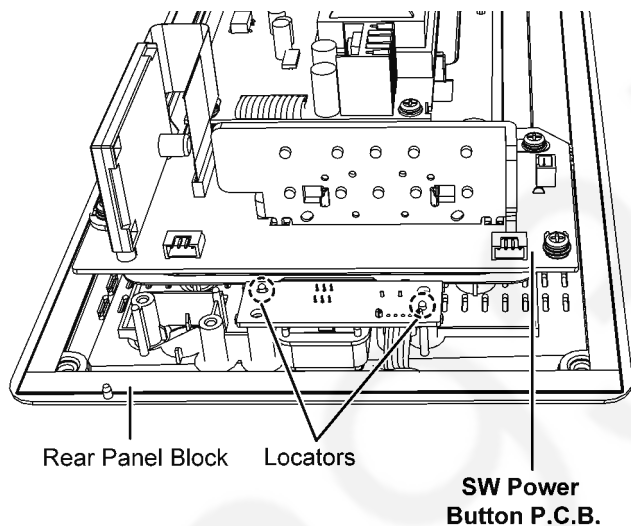


Step 3 : Press and hold Power Button.

Step 4 : Slightly lift up to remove SW Power Button P.C.B..



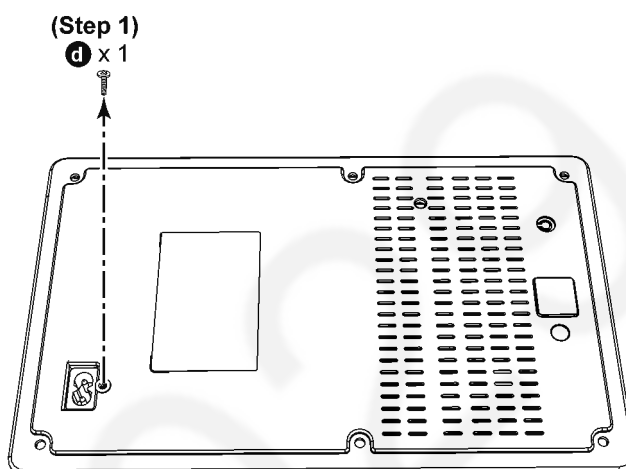
Caution : During assembling, ensure SW Power Button P.C.B. is seated properly onto the 2 locators of the Rear Panel Block.



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

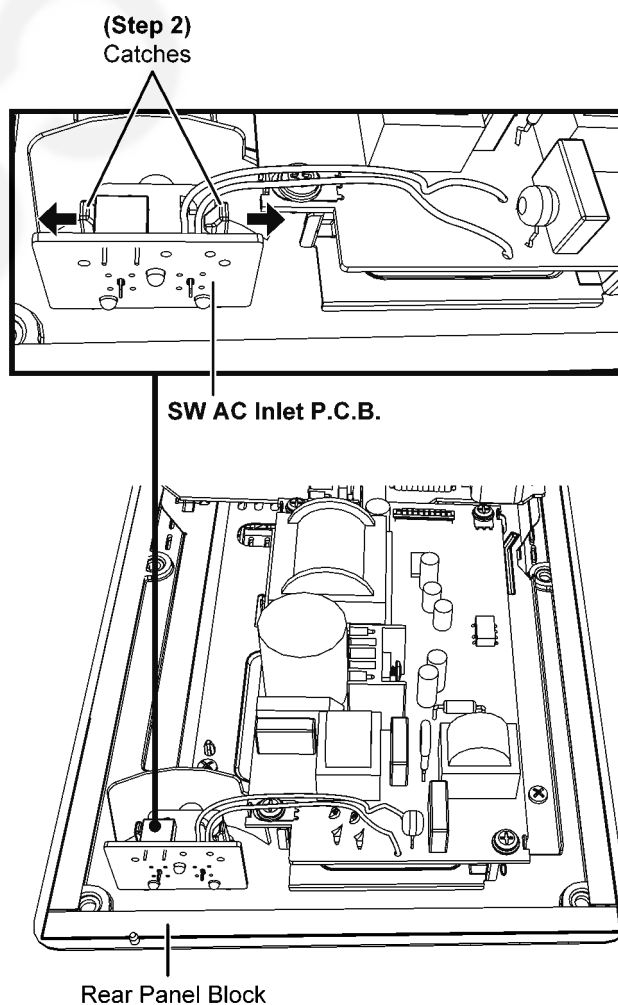
- Refer to “Disassembly of Rear Panel Block”.

Step 1 : Remove 1 screw.



Step 2 : Release catches.

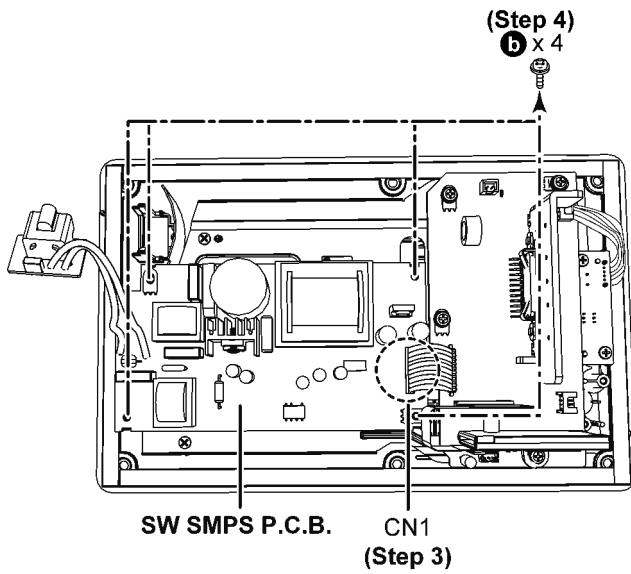
Caution : During assembling, ensure that SW AC Inlet P.C.B. is inserted into Rear Panel Block.



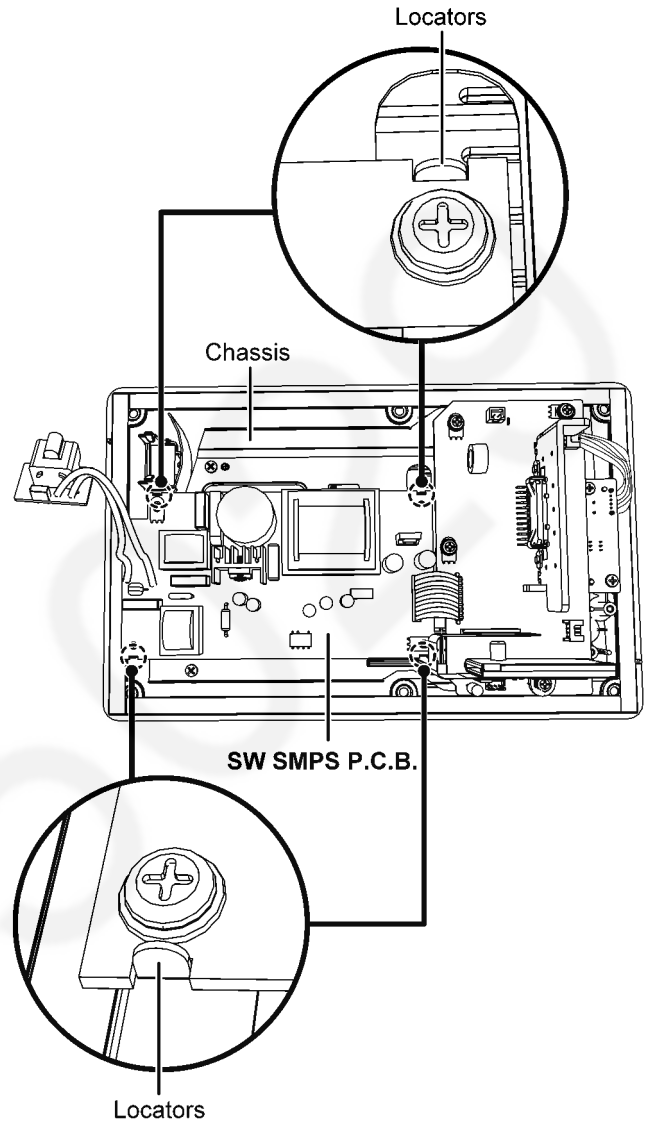
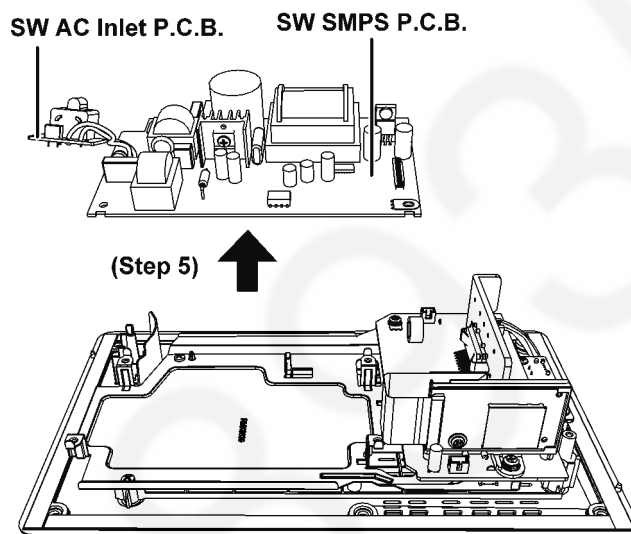
Step 3 : Detach 10P Wire at connector (CN1) on SW SMPS P.C.B..

Step 4 : Remove 4 screws.

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



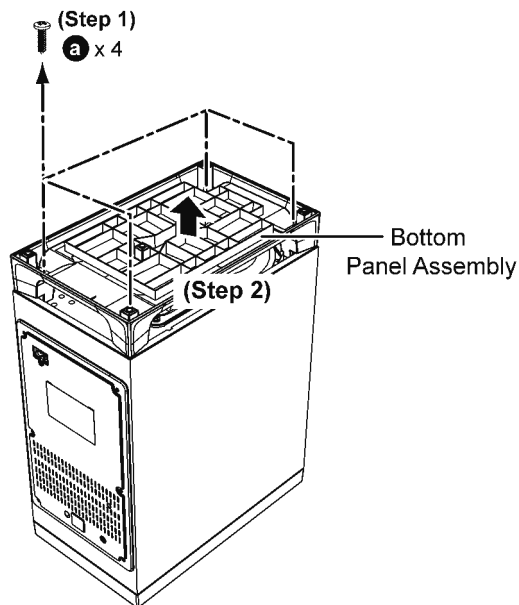
Step 5 : Remove SW SMPS P.C.B. and SW AC Inlet P.C.B..



8.6.6. Disassembly of Bottom Panel Assembly

Step 1 : Remove 4 screws.

Step 2 : Remove Bottom Panel Assembly.

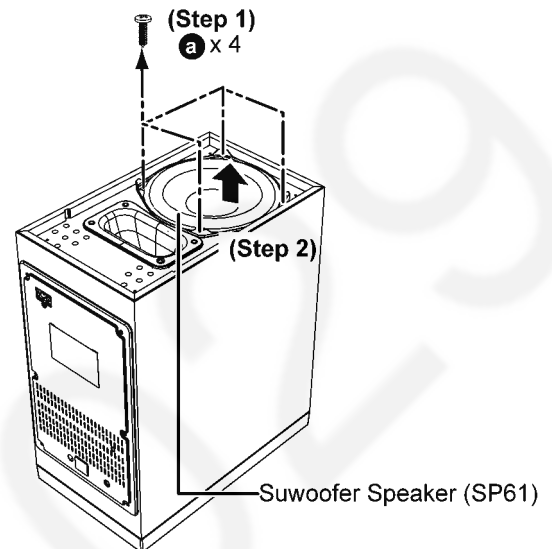


8.6.7. Disassembly of Subwoofer Speaker (SP61)

• Refer to "Disassembly of Bottom Panel Assembly".

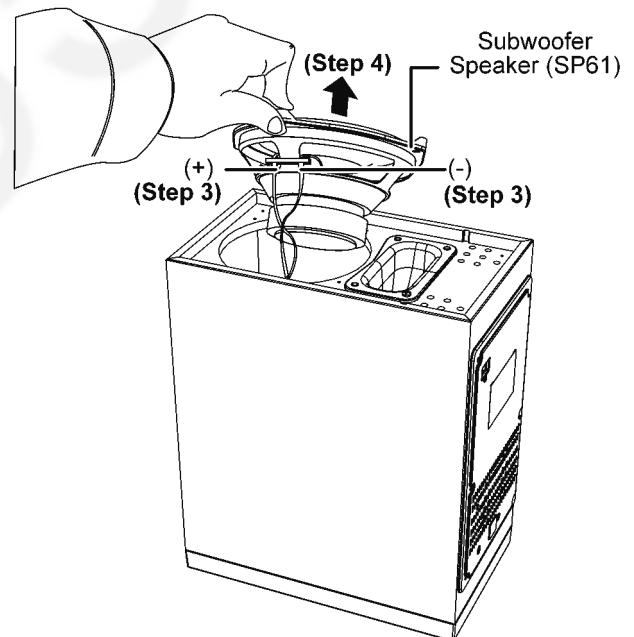
Step 1 : Remove 4 screws.

Step 2 : Slightly lift up Subwoofer Speaker (SP61).



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

Step 4 : Remove Subwoofer Speaker (SP61).



9 Service Position

9.1. Main Speaker Unit

Note: For description of the disassembly procedures, see the Section 8

9.1.1. Checking Tilt Switch P.C.B.

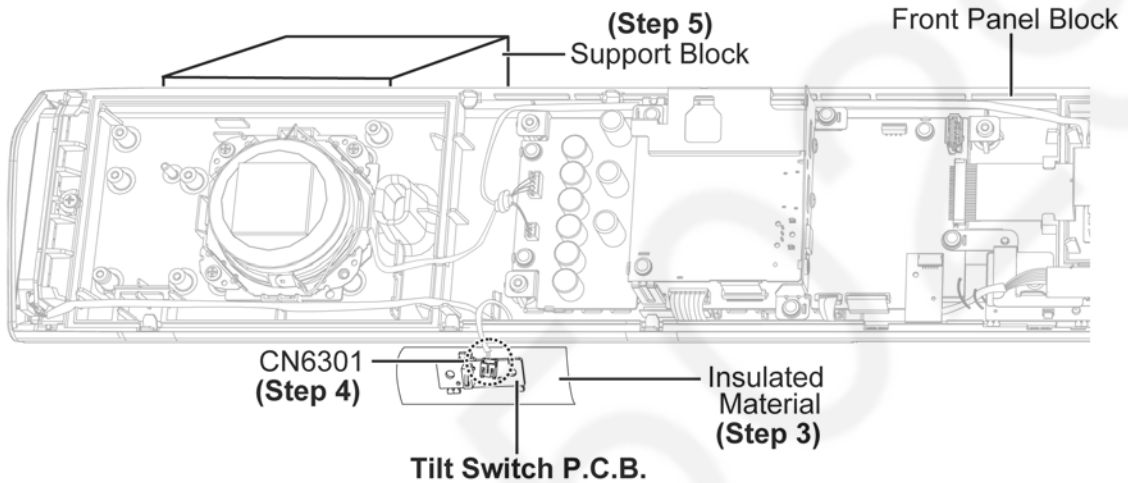
Step 1 : Remove Rear Cabinet Block.

Step 2 : Remove Tilt Switch P.C.B..

Step 3 : Place the Tilt Switch P.C.B. on an insulated material.

Step 4 : Connect 2P wire to connector (CN6301) on Tilt Switch P.C.B..

Step 5 : Place support block at both sides of the Front Panel Block.



9.1.2. Checking SMPS P.C.B.

- Refer to (Step 1) - (Step 3) of item 9.1.1.

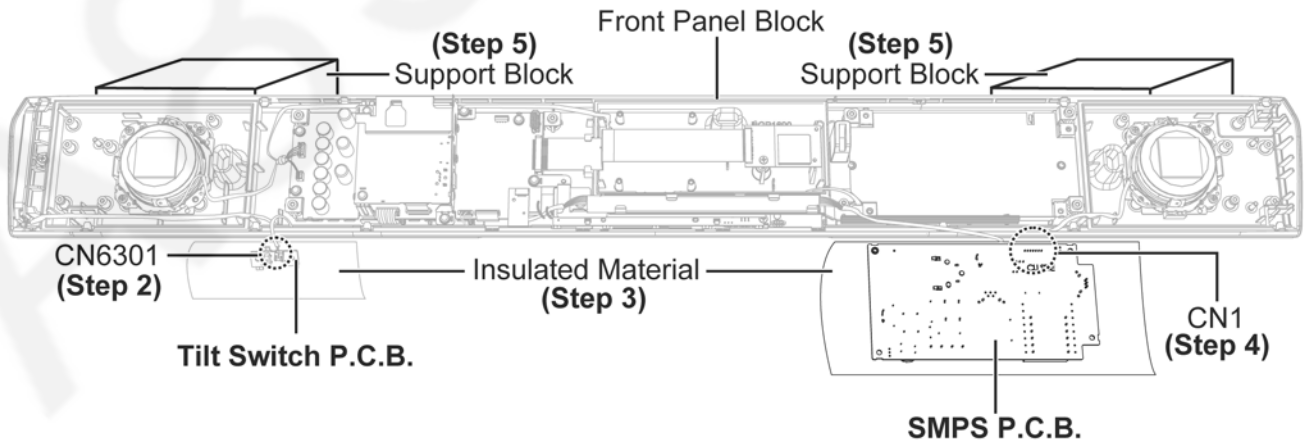
Step 1 : Remove SMPS P.C.B..

Step 2 : Connect 2P wire to connector (CN6301) on Tilt Switch P.C.B..

Step 3 : Place SMPS P.C.B. on an insulated material.

Step 4 : Connect 7P wire to connector (CN1) on SMPS P.C.B..

Step 5 : Place support block at both sides of the Front Panel Block.



9.1.3. Checking HDMI P.C.B.

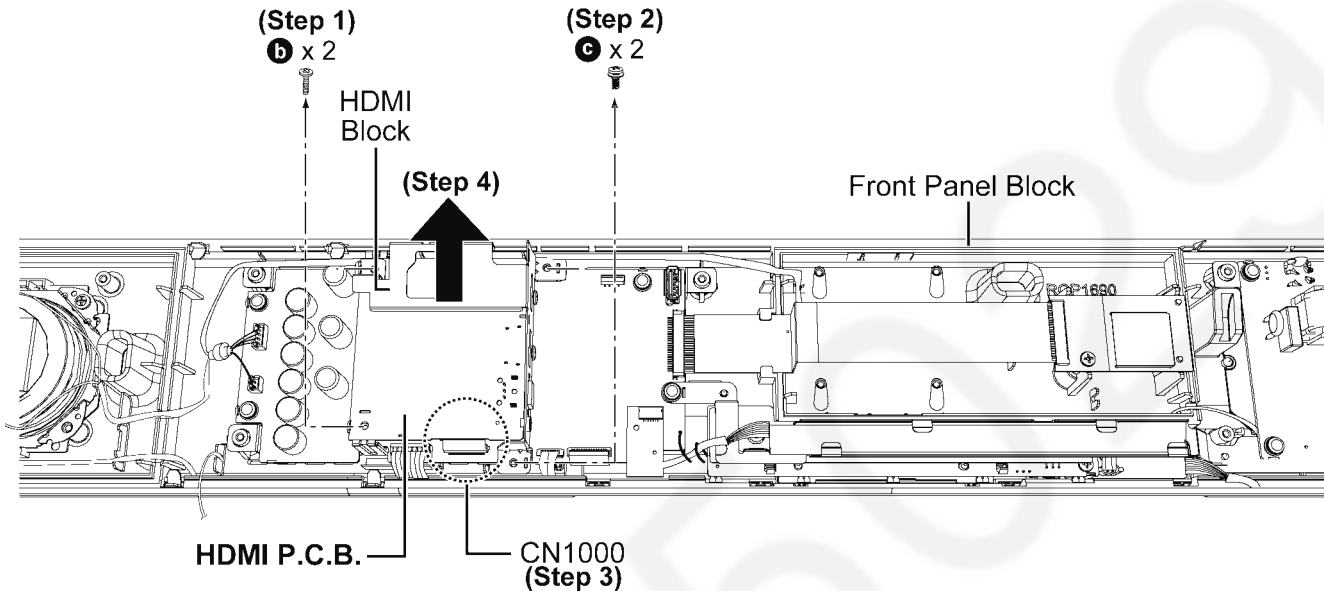
- Refer to (Step 1) - (Step 3) of item 9.1.1.

Step 1 : Remove 2 screws.

Step 2 : Remove 2 screws.

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

Step 4 : Remove HDMI Block.

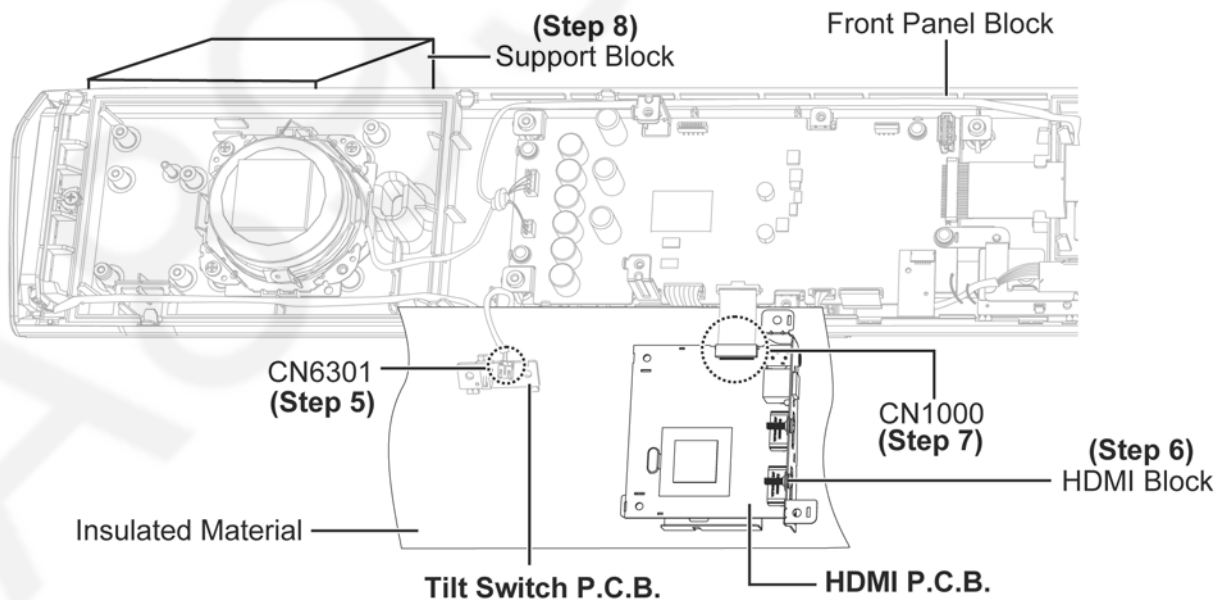


Step 5 : Connect 2P wire to connector (CN6301) on Tilt Switch P.C.B..

Step 6 : Place HDMI Block on an insulated material.

Step 7 : Attach 30P FFC to connector (CN1000) on HDMI P.C.B..

Step 8 : Place support block at both side of the Front Panel Block.



9.1.4. Checking Panel P.C.B. & NFC P.C.B.

- Refer to (Step 1) - (Step 3) of item 9.1.1.

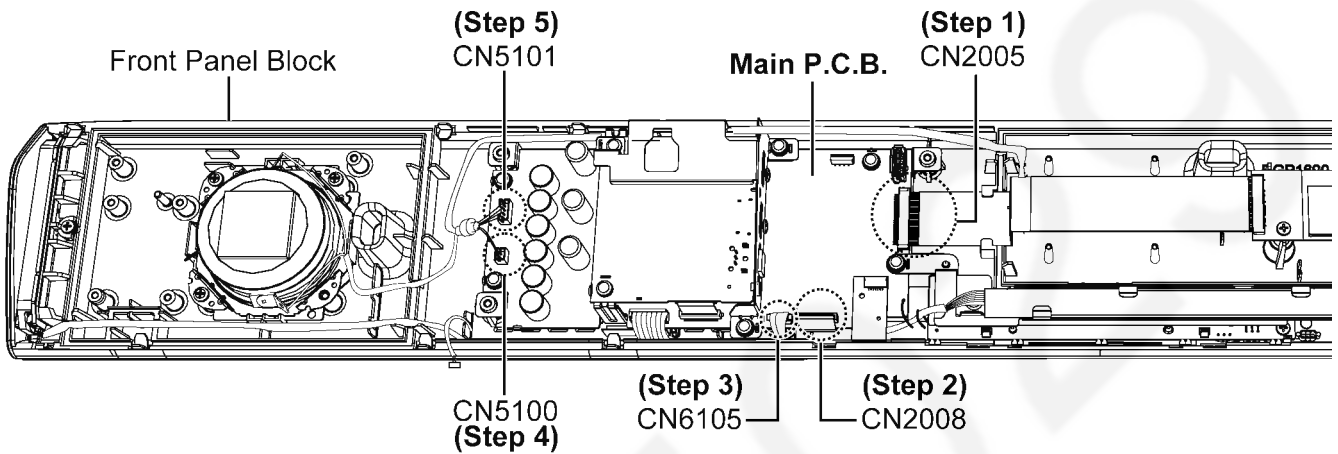
Step 1 : Detach 24P FFC at connector (CN2005) on Main P.C.B..

Step 2 : Detach 15P FFC at connector (CN2008) on Main P.C.B..

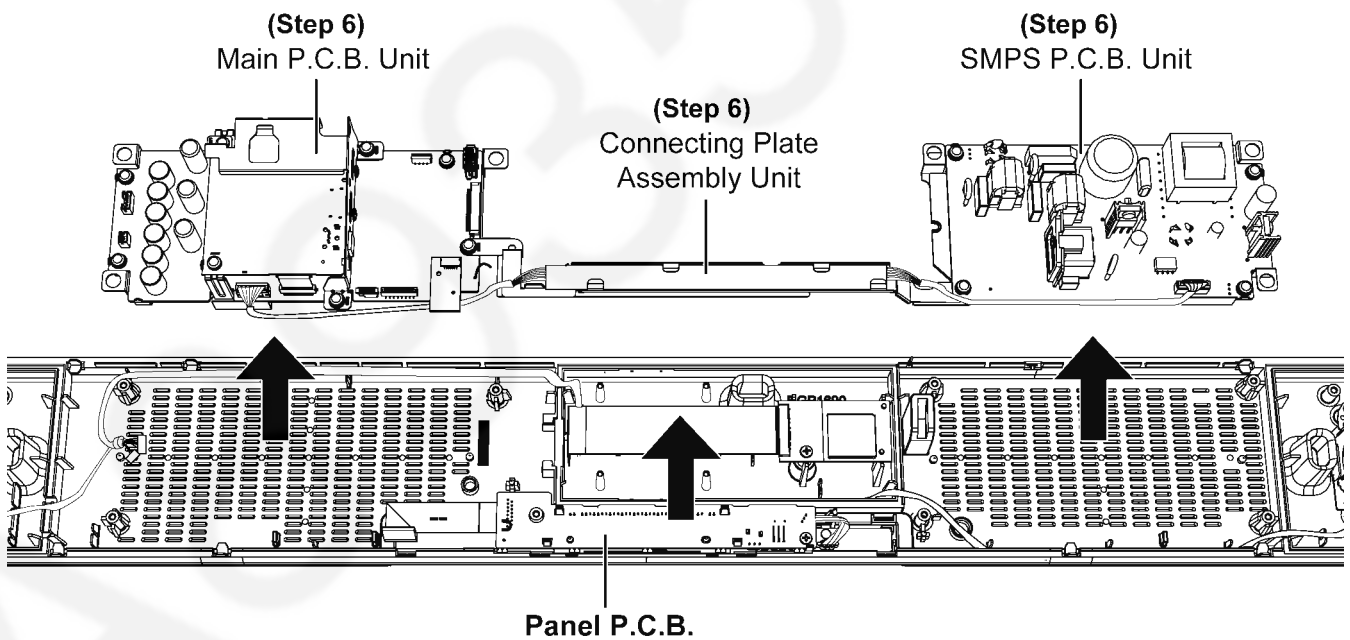
Step 3 : Connect 5P wire at connector (CN6105) on Main P.C.B..

Step 4 : Connect 2P wire at connector (CN5100) on Main P.C.B..

Step 5 : Connect 4P wire at connector (CN5101) on Main P.C.B..



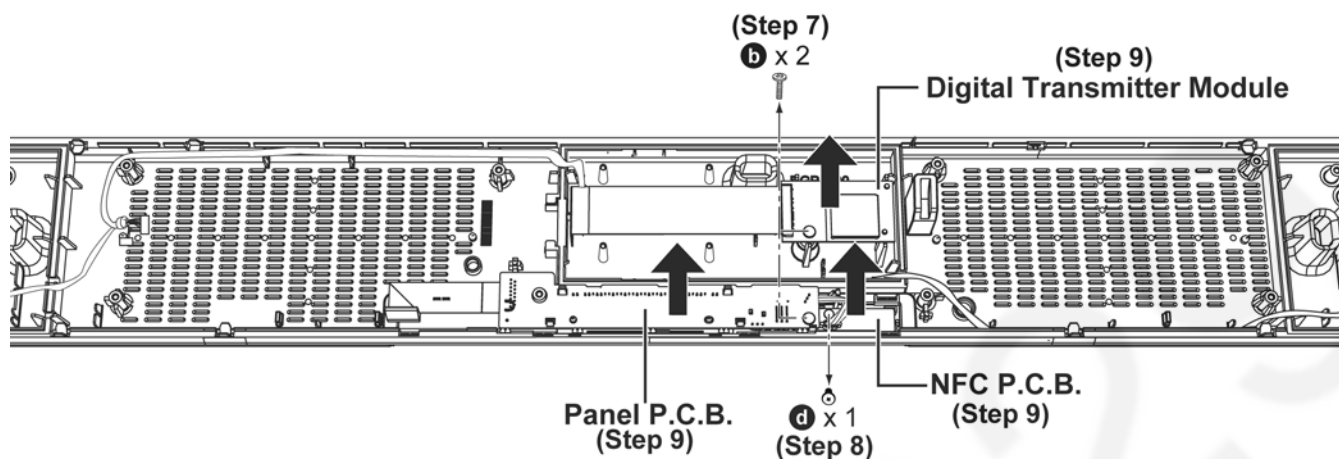
Step 6 : Lift up to remove Main P.C.B. Unit, Connecting Plate Assembly Unit and SMPS P.C.B. Unit together.



Step 7 : Remove 2 screws.

Step 8 : Remove 1 screw.

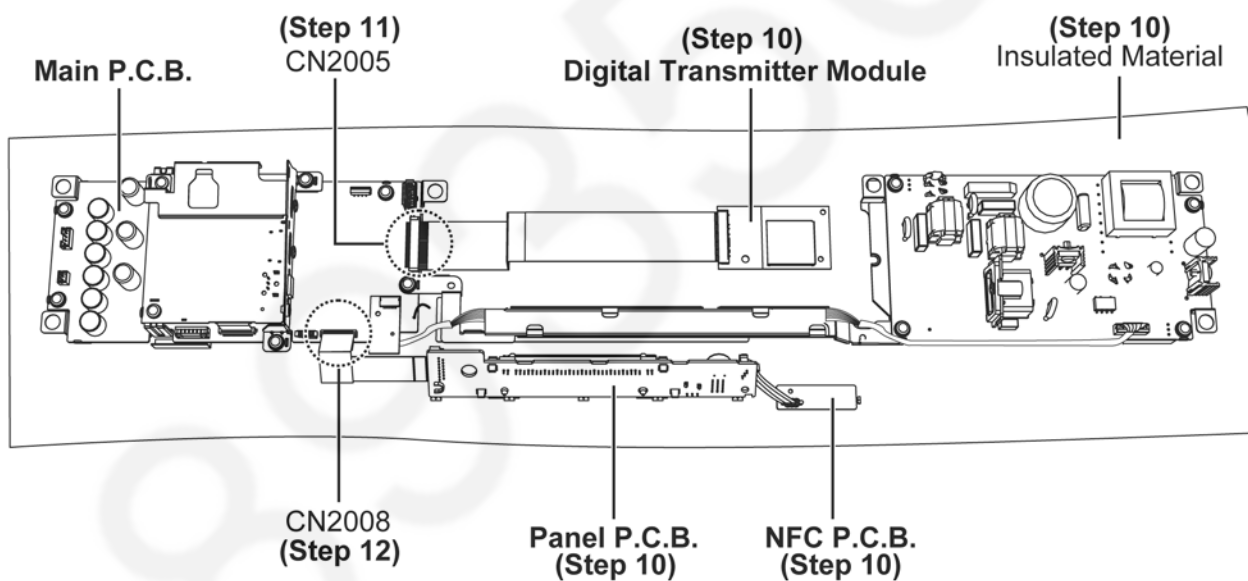
Step 9 : Remove Panel P.C.B., Digital Transmitter Module and NFC P.C.B..



Step 10 : Place Main P.C.B. Unit, Connecting Plate Assembly Unit, SMPS P.C.B. Unit, Digital Transmitter Module, Panel P.C.B. and NFC P.C.B. on an insulated material.

Step 11 : Attach 24P FFC to connector (CN2005) on Main P.C.B..

Step 12 : Attach 15P FFC to connector (CN2008) on Main P.C.B..



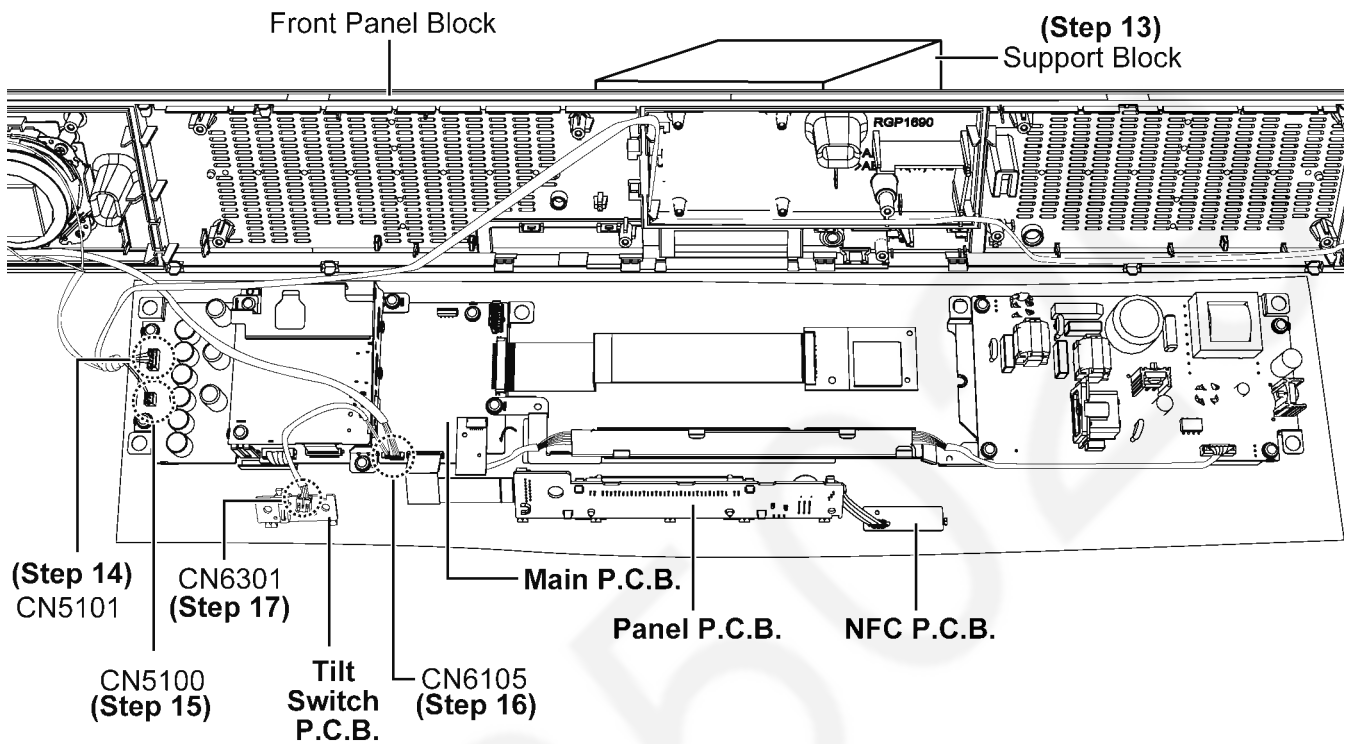
Step 13 : Place support block at the Front Panel Block.

Step 14 : Connect 4P wire to connector (CN5101) on Main P.C.B..

Step 15 : Connect 2P wire to connector (CN5100) on Main P.C.B..

Step 16 : Connect 5P wire to connector (CN6105) on Main P.C.B..

Step 17 : Connect 2P wire to connector (CN6301) on Tilt Switch P.C.B..



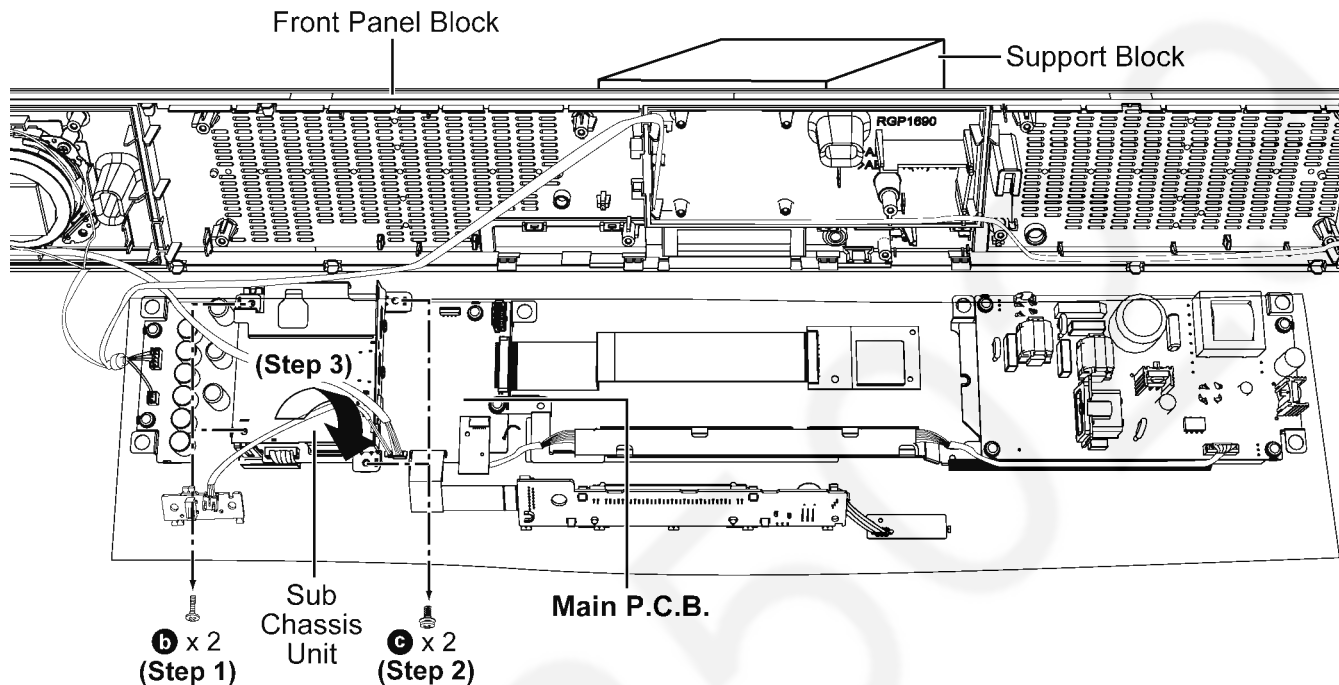
9.1.5. Checking Main P.C.B. & Digital Transmitter Module

- Refer to (Step 1) - (Step 3) of item 9.1.1.
- Refer to (Step 1) - (Step 17) of item 9.1.4.

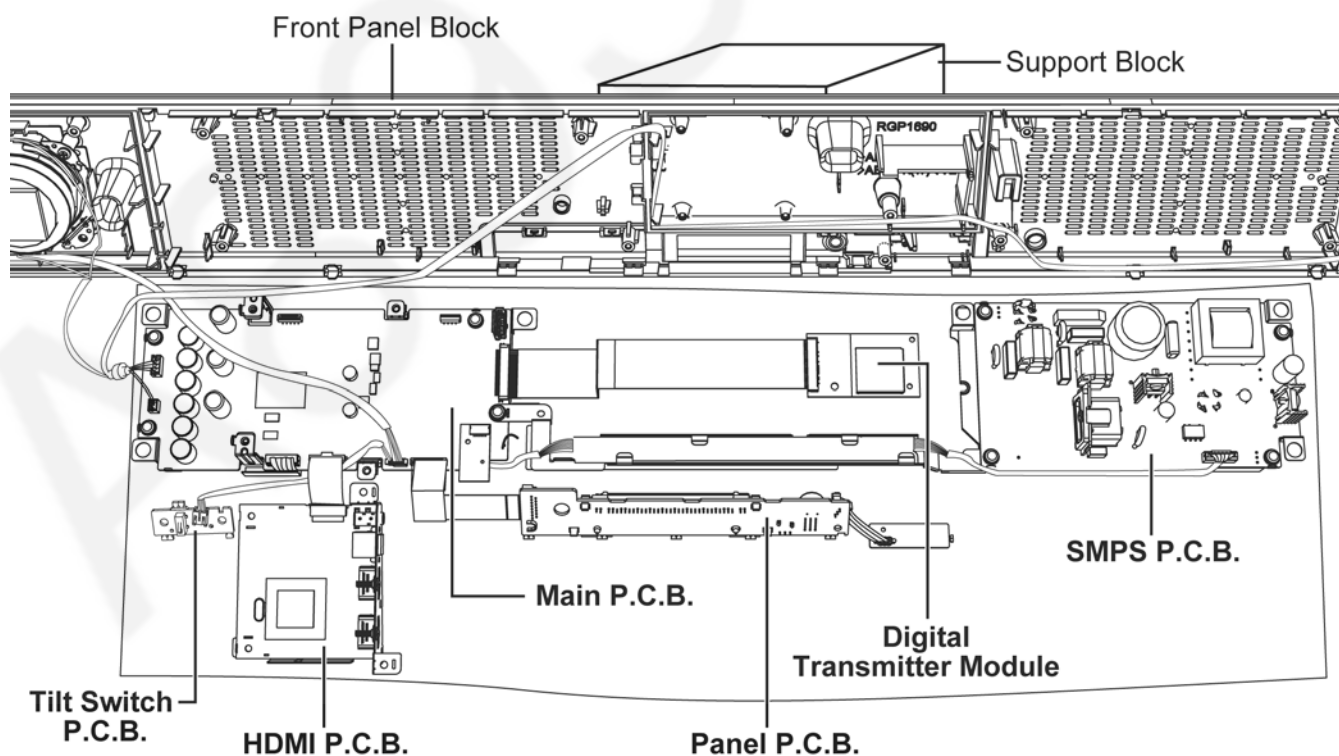
Step 1 : Remove 2 screws.

Step 2 : Remove 2 screws.

Step 3 : Upset Sub Chassis Unit.



Step 4 : Main P.C.B. and Digital Transmitter Module can be checked as diagram shown.



9.2. Active Subwoofer

Note: For description of the disassembly procedures, see the Section 8

9.2.1. Checking SW SMPS & SW DAMP P.C.B.

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

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

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

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

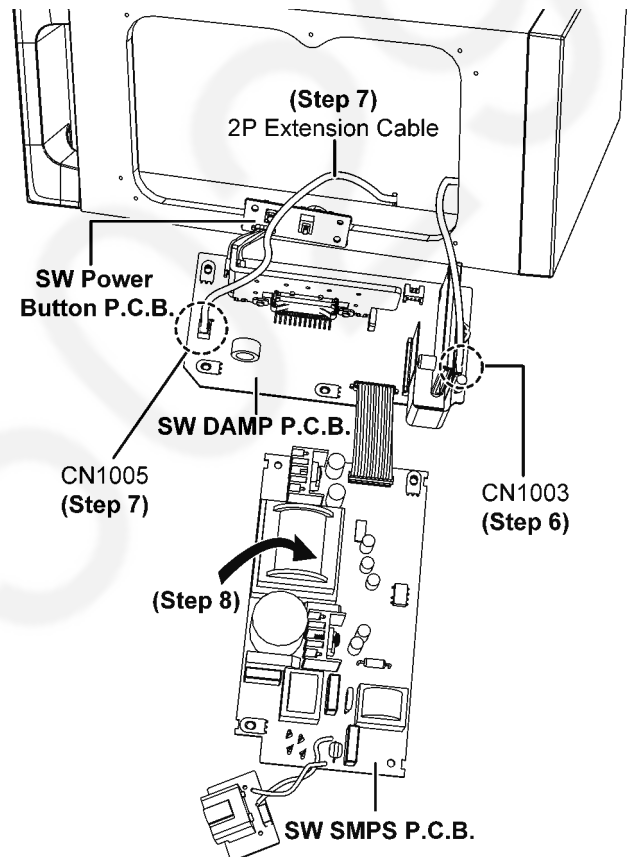
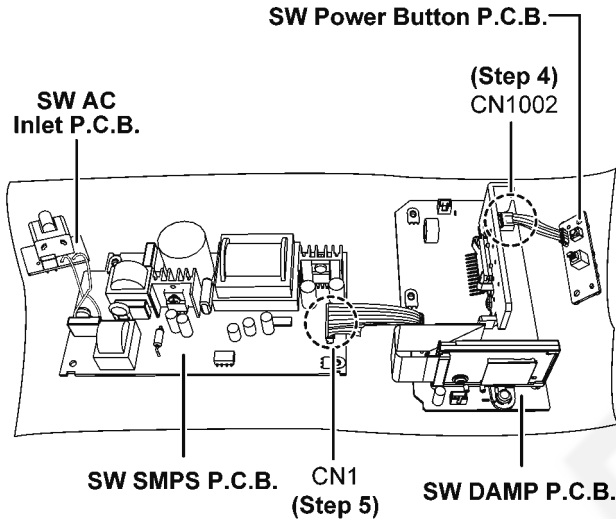
Step 5 : Connect 10P Wire at connector (CN1) on SW SMPS P.C.B..

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

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

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

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



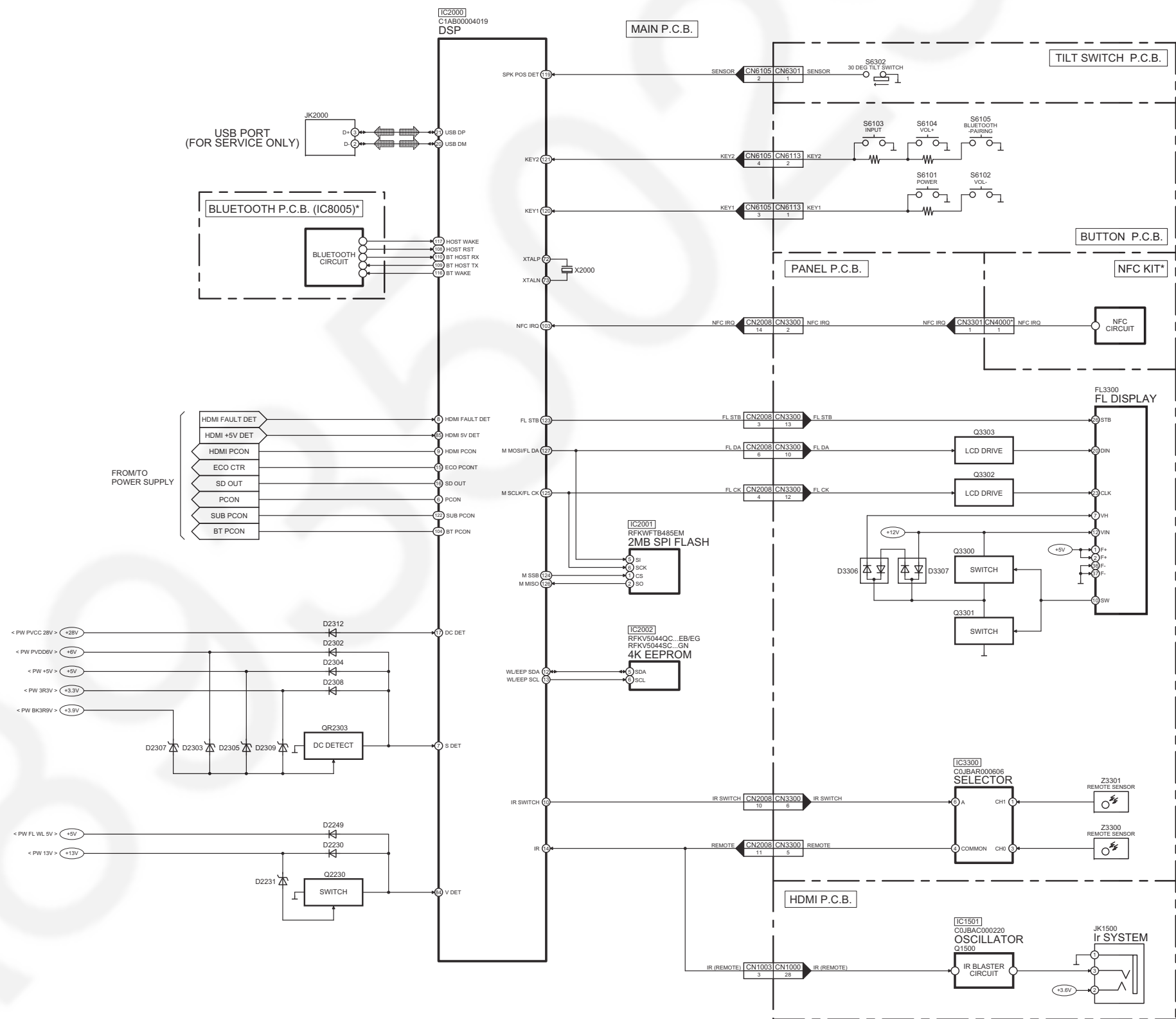
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10 Block Diagram

10.1. Main Speaker Unit (SU-HTB485)

10.1.1. SYSTEM CONTROL BLOCK DIAGRAM

➡ : USB SIGNAL LINE

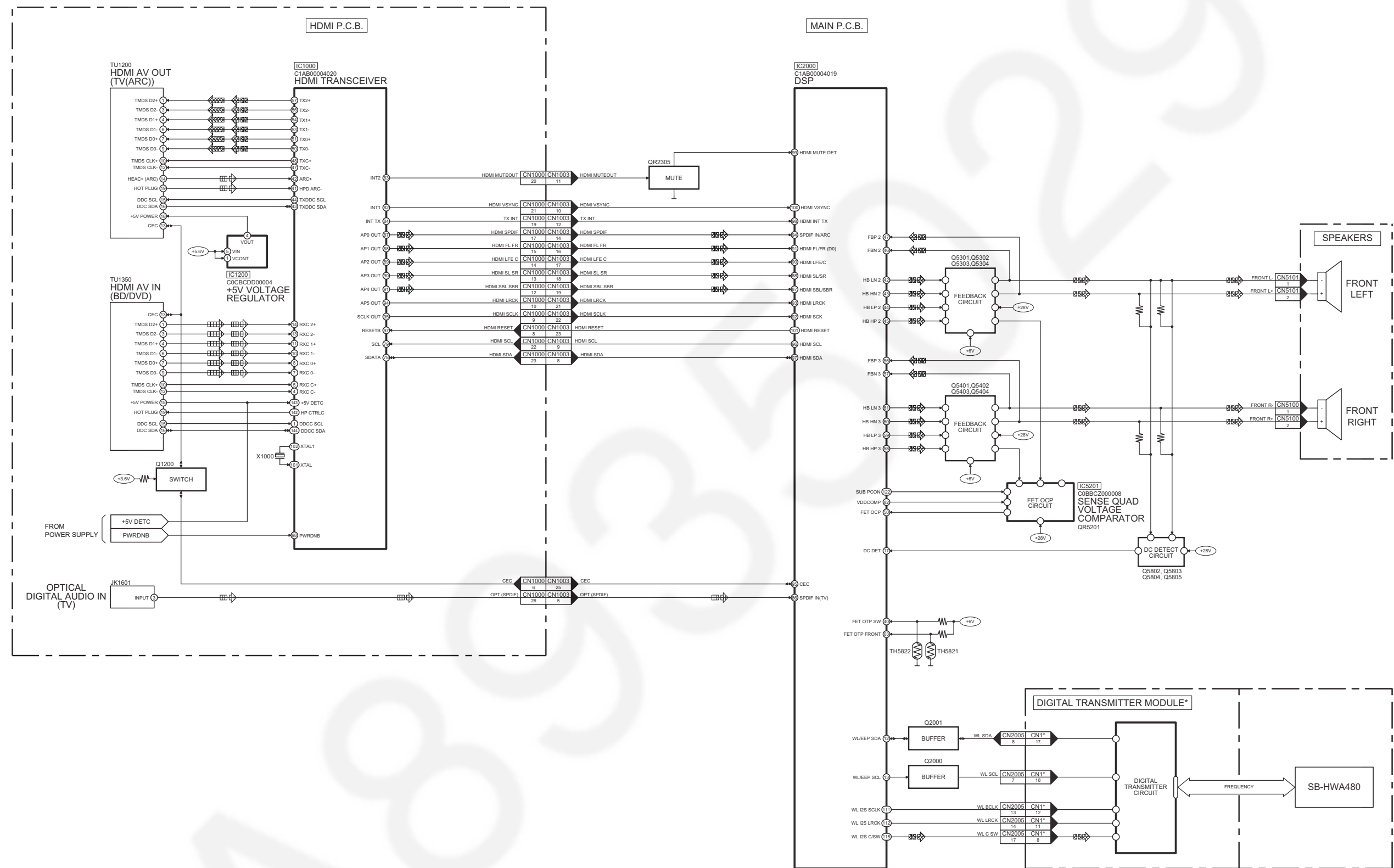


NOTE: “ * ” REF IS FOR INDICATION ONLY

SC-HTB485EB/EG/GN (SU-HTB485EB/EG/GN) SYSTEM CONTROL BLOCK DIAGRAM

10.1.2. HDMI & AUDIO BLOCK DIAGRAM

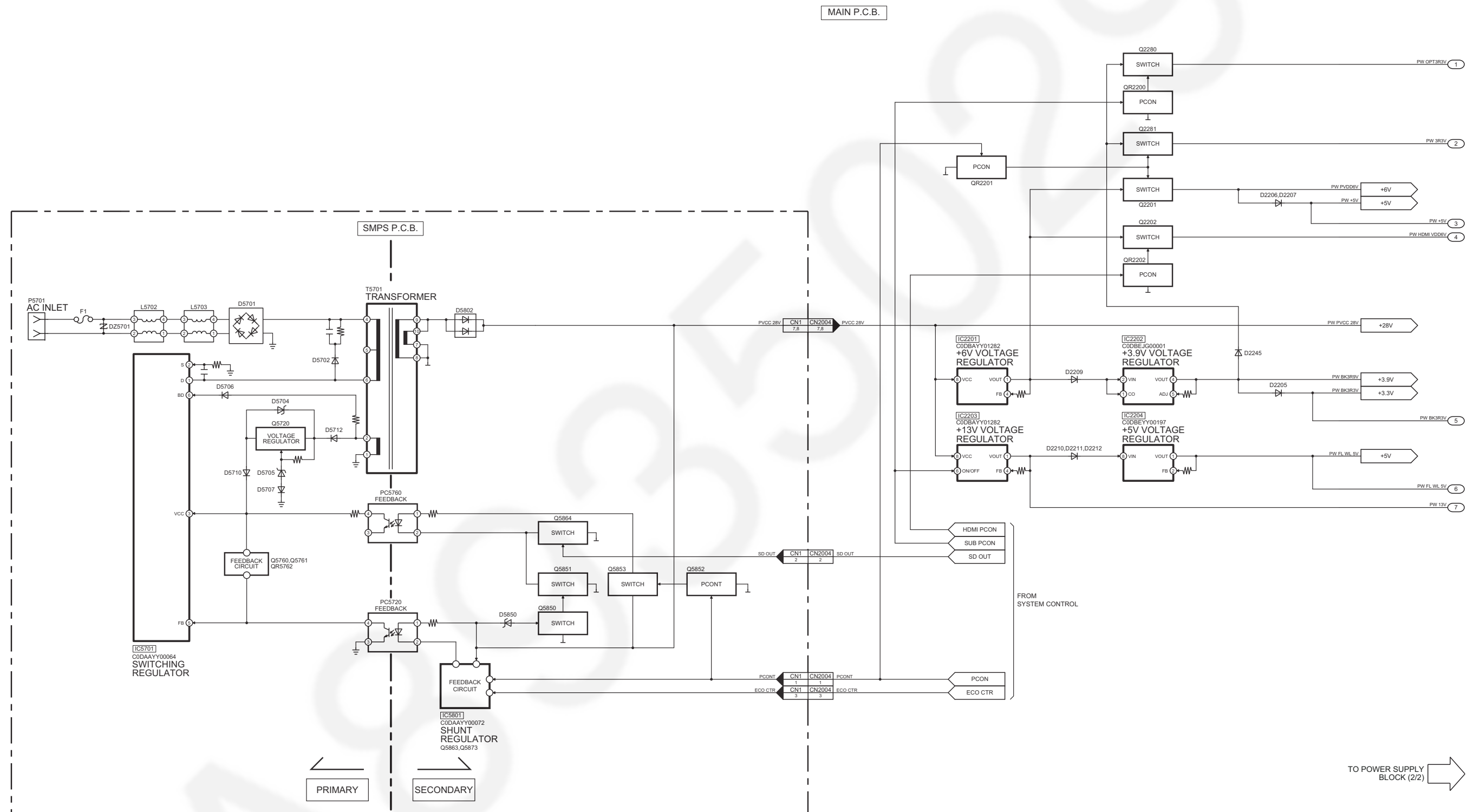
 : HDMI/OPTICAL AUDIO INPUT SIGNAL LINE
  : HDMI VIDEO INPUT SIGNAL LINE
  : AUDIO OUTPUT SIGNAL LINE
  : VIDEO OUTPUT SIGNAL LINE



NOTE: “ * ” REF IS FOR INDICATION ONLY

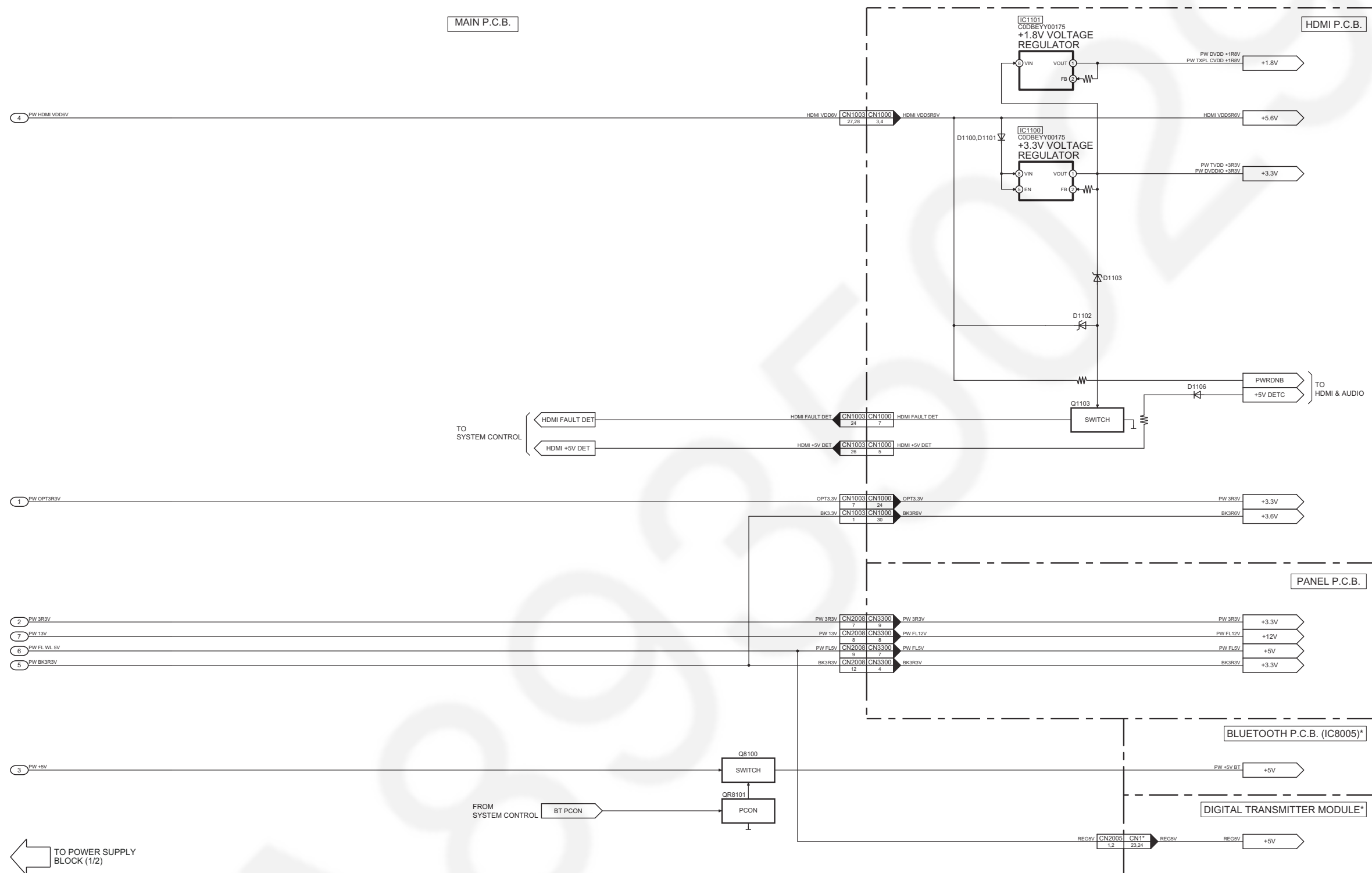
SC-HTB485EB/EG/GN (SU-HTB485EB/EG/GN) HDMI & AUDIO BLOCK DIAGRAM

10.1.3. POWER SUPPLY (1/2) BLOCK DIAGRAM



SC-HTB485EB/EG/GN (SU-HTB485EB/EG/GN) POWER SUPPLY (1/2) BLOCK DIAGRAM

10.1.4. POWER SUPPLY (2/2) BLOCK DIAGRAM

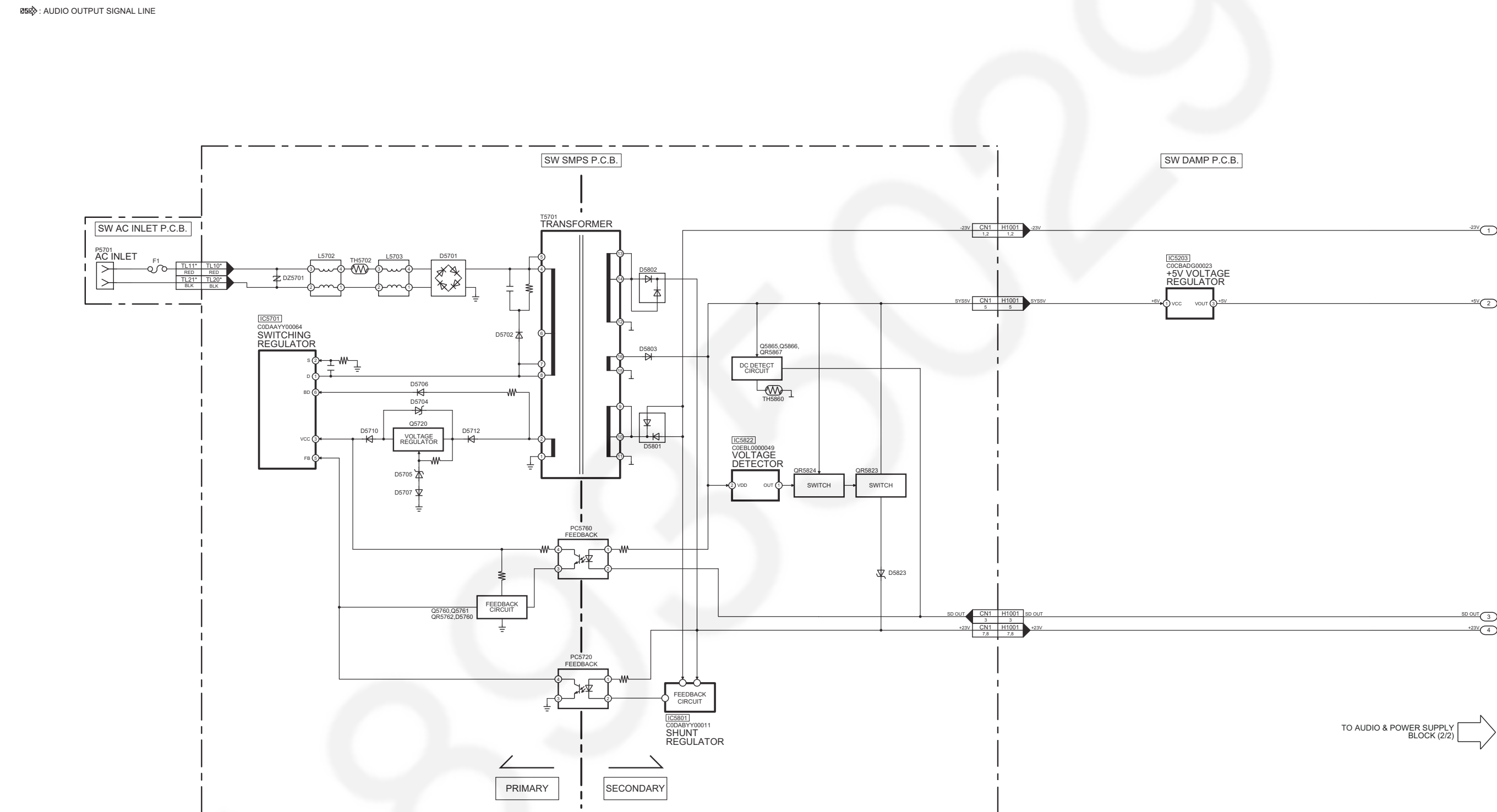


NOTE: " * " REF IS FOR INDICATION ONLY

SC-HTB485EB/EG/GN (SU-HTB485EB/EG/GN) POWER SUPPLY (2/2) BLOCK DIAGRAM

10.2. Active Subwoofer (SB-HWA480)

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

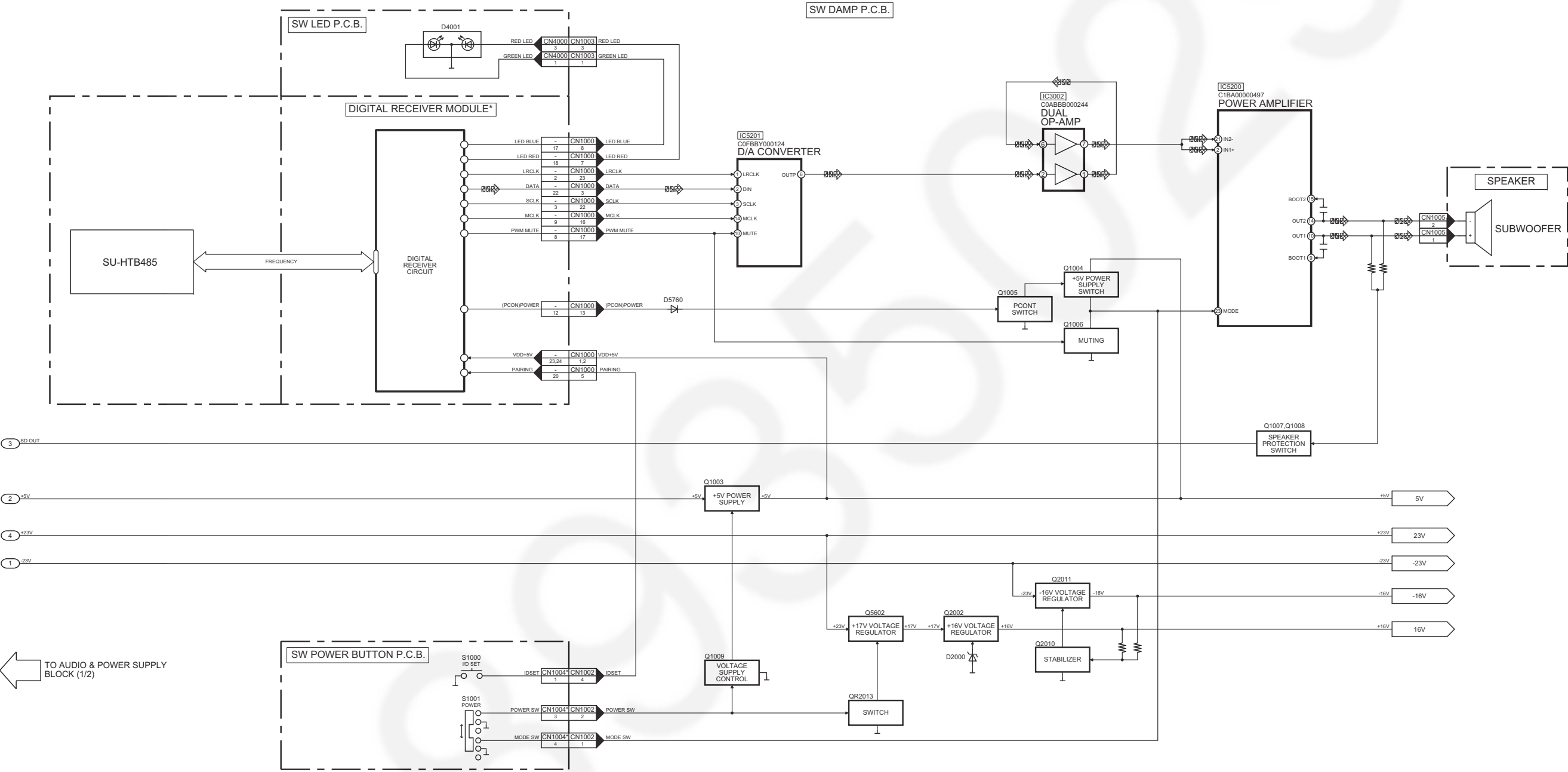


NOTE: “ * ” REF IS FOR INDICATION ONLY

SC-HTB485EB/EG/GN (SB-HWA480EB/GN) AUDIO & POWER SUPPLY (1/2) BLOCK DIAGRAM

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

 : AUDIO OUTPUT SIGNAL LINE

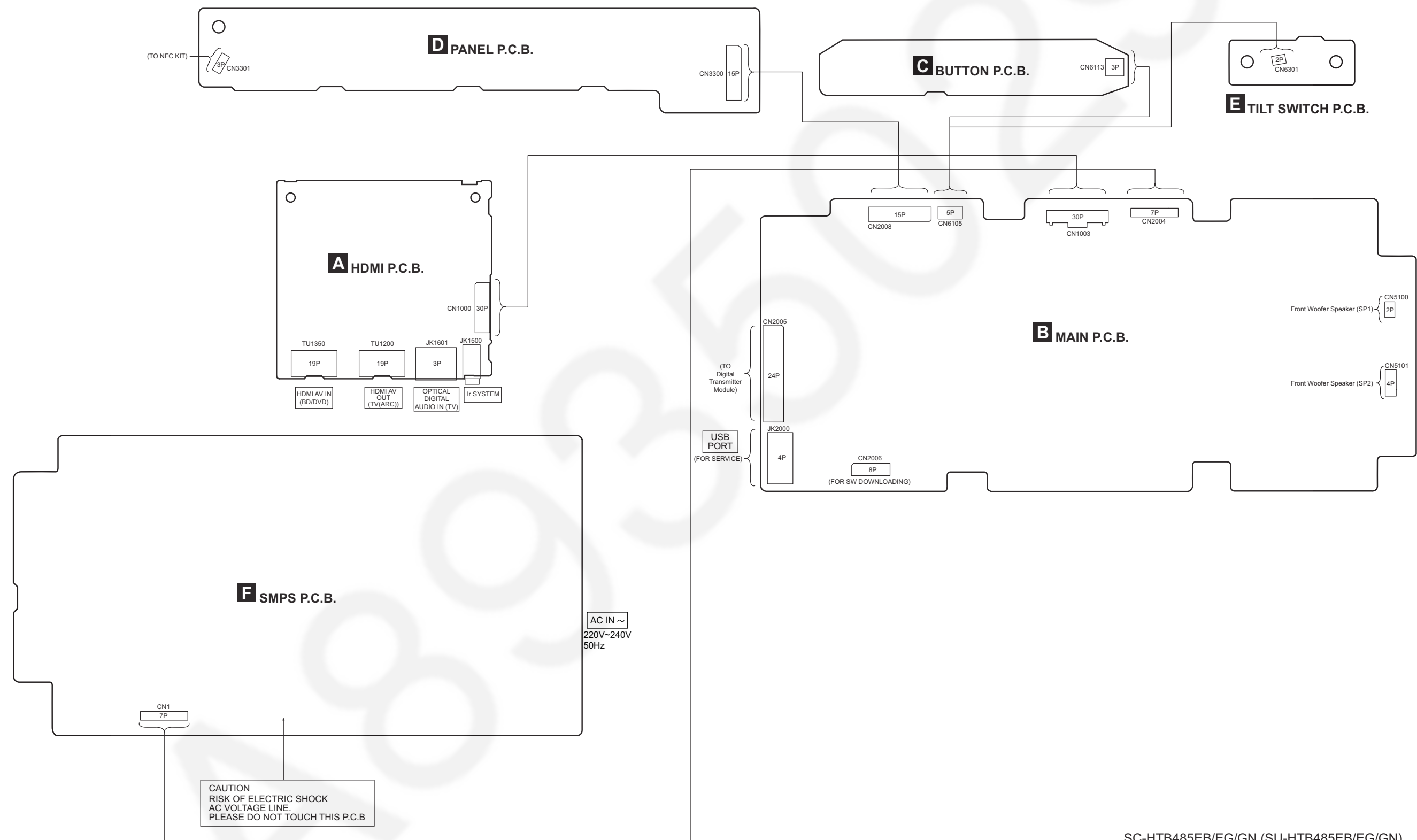


NOTE: “ * ” REF IS FOR INDICATION ONLY

SC-HTB485EB/EG/GN (SB-HWA480EB/GN) AUDIO & POWER SUPPLY (2/2) BLOCK DIAGRAM

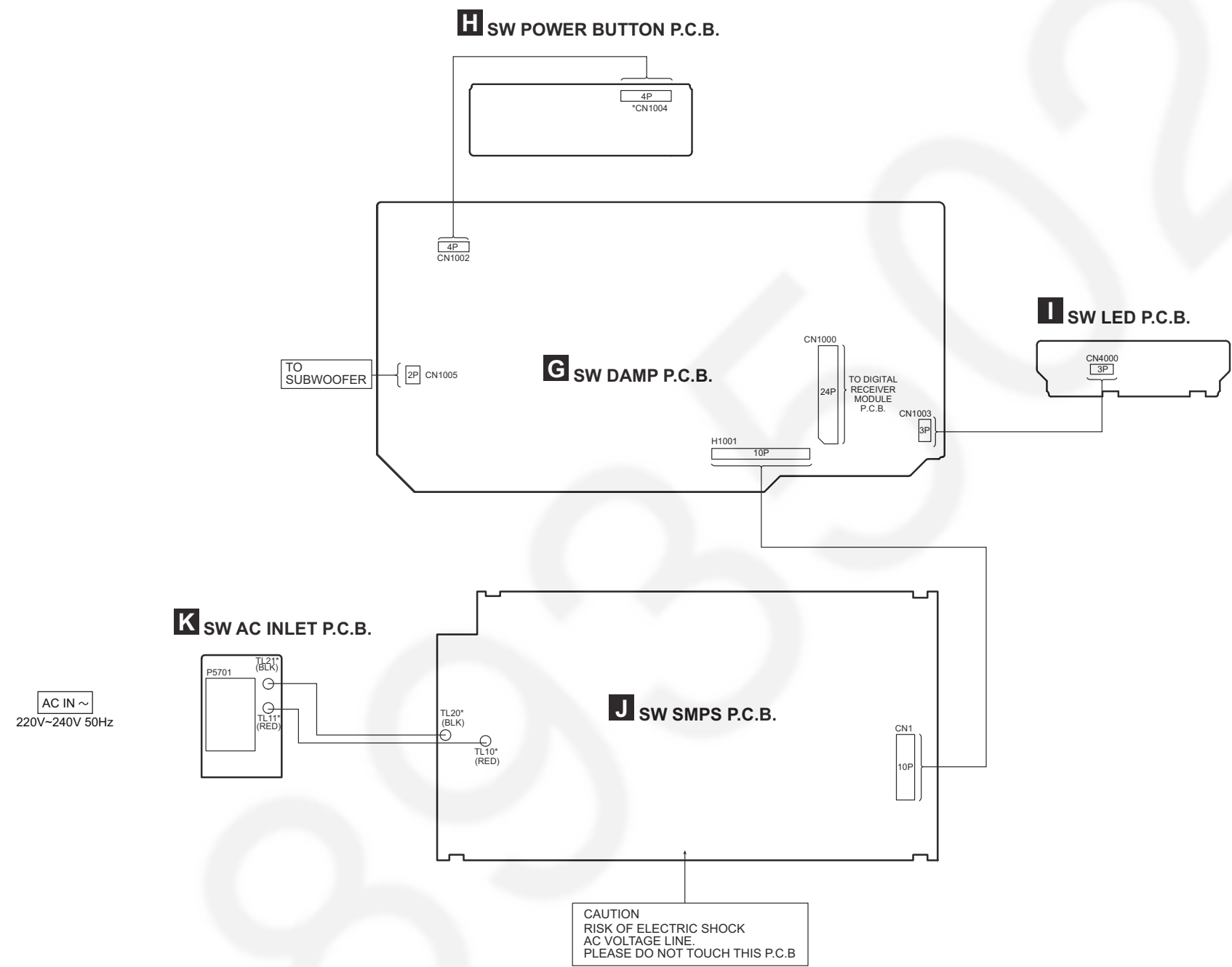
11 Wiring Connection Diagram

11.1. Main Speaker Unit (SU-HTB485)



SC-HTB485EB/EG/GN (SU-HTB485EB/EG/GN)
WIRING CONNECTION DIAGRAM

11.2. Active Subwoofer (SB-HWA480)



Note : “ * ” REF IS FOR INDICATION ONLY.

SC-HTB485EB/EG/GN (SB-HWA480EG/GN)
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:

Main Speaker Unit (SU-HTB485)

S6101: POWER switch.
S6102: VOLUME DOWN switch.
S6103: INPUT switch.
S6104: VOLUME UP switch.
S6105: BT/-PAIRING switch.

Active Subwoofer (SB-HWA480)

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 μ F, 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 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 hazard, replace with the same type fuse. For fuse rating, refer to the marking adjacent to the symbol.

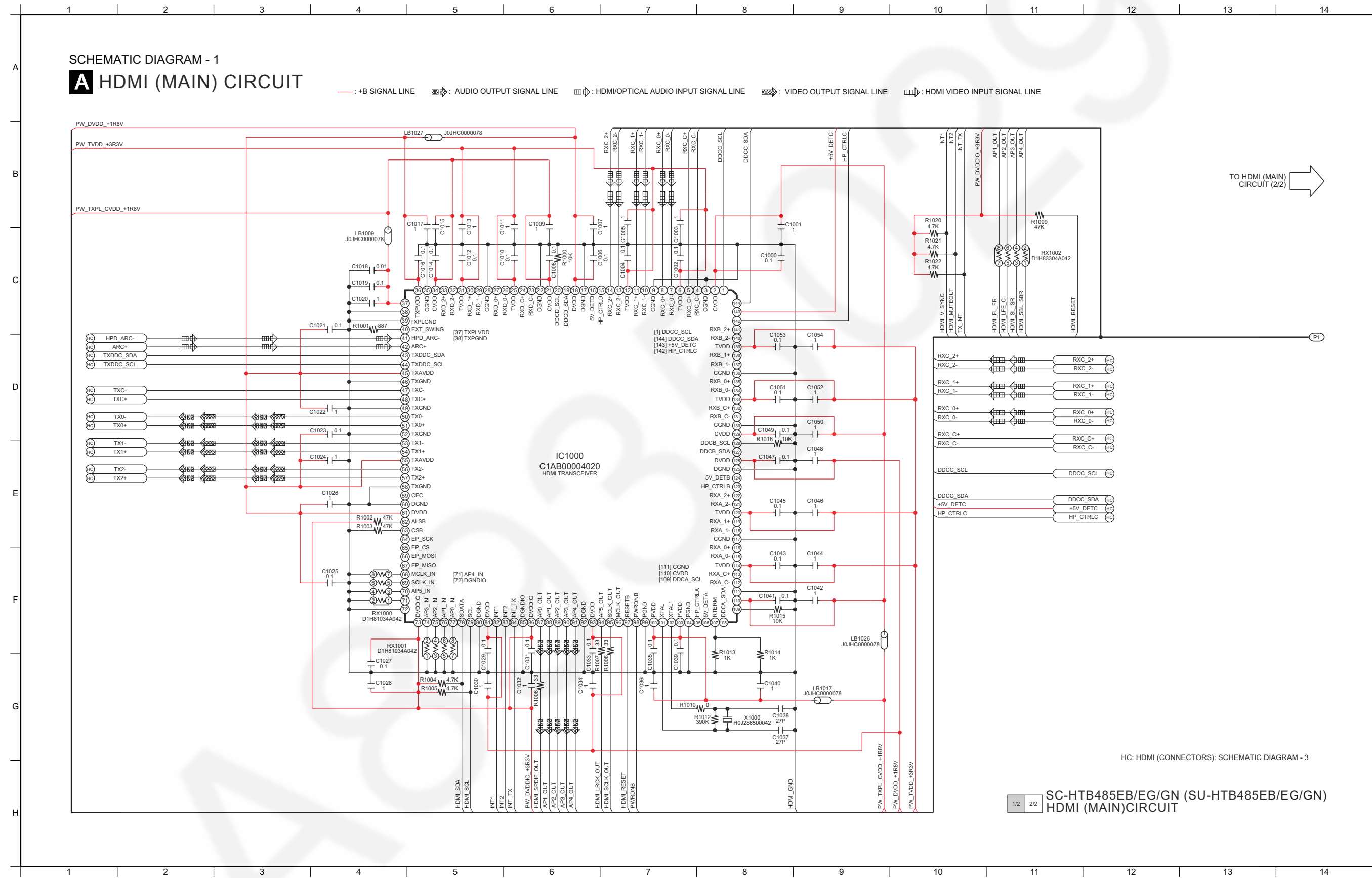


Ce symbole indique que le fusible utilisé est à rapide. Pour une protection permanente, n' utiliser que des fusibles de même type. Ce dernier est indiqué là où le présent symbole est apposé.

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12.2. Main Speaker Unit (SU-HTB485)

12.2.1. HDMI (MAIN) CIRCUIT (1/2)

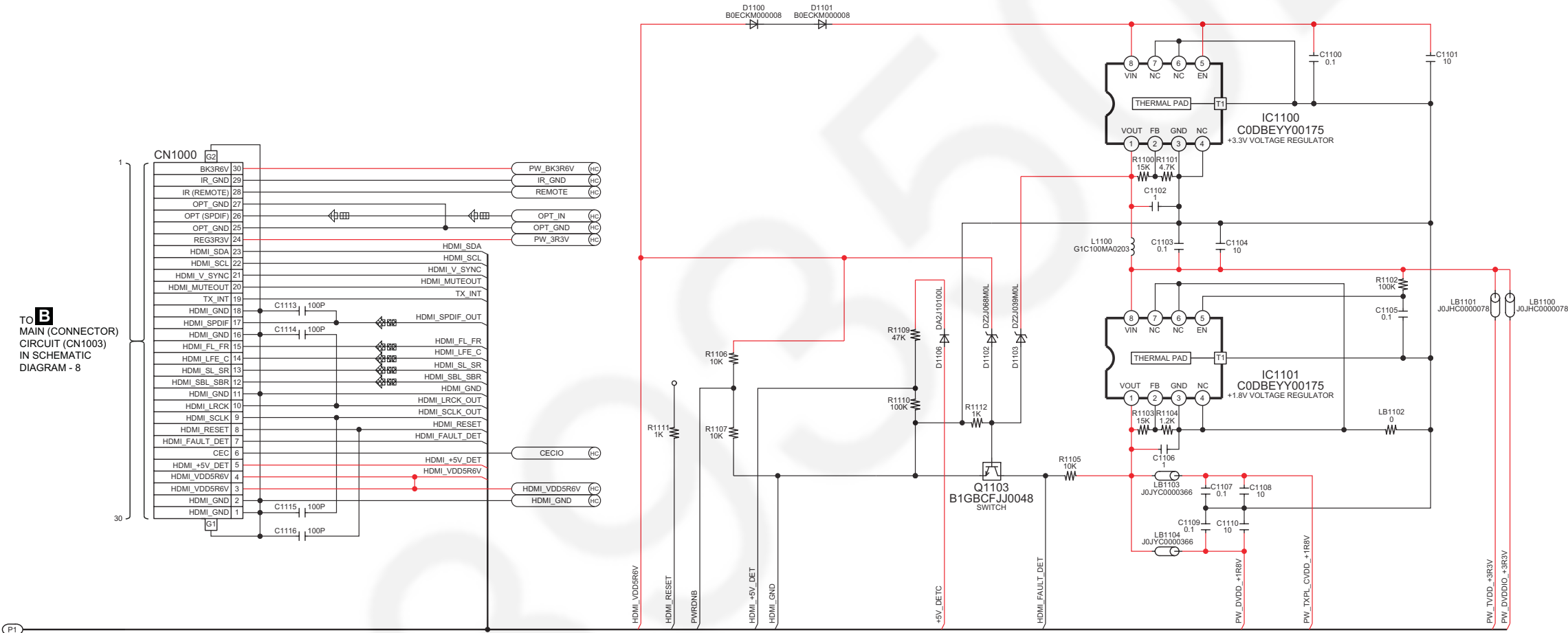


12.2.2. HDMI (MAIN) CIRCUIT (2/2)

SCHEMATIC DIAGRAM - 2
A HDMI (MAIN) CIRCUIT

— : +B SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : HDMI/OPTICAL AUDIO INPUT SIGNAL LINE

TO HDMI (MAIN)
CIRCUIT (1/2)



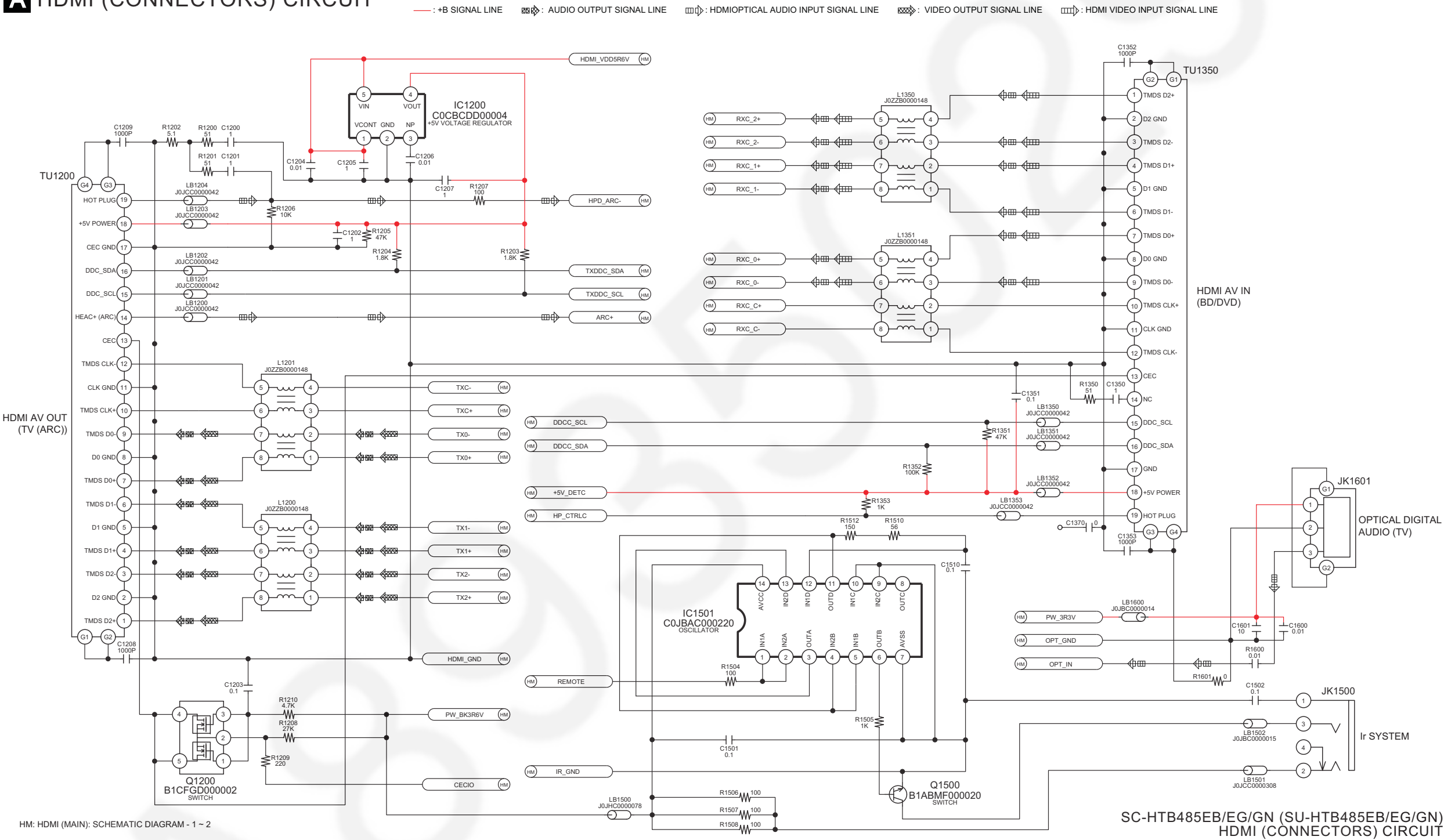
HC: HDMI (CONNECTORS): SCHEMATIC DIAGRAM - 3

1/2 2/2 SC-HTB485EB/EG/GN (SU-HTB485EB/EG/GN)
HDMI (MAIN) CIRCUIT

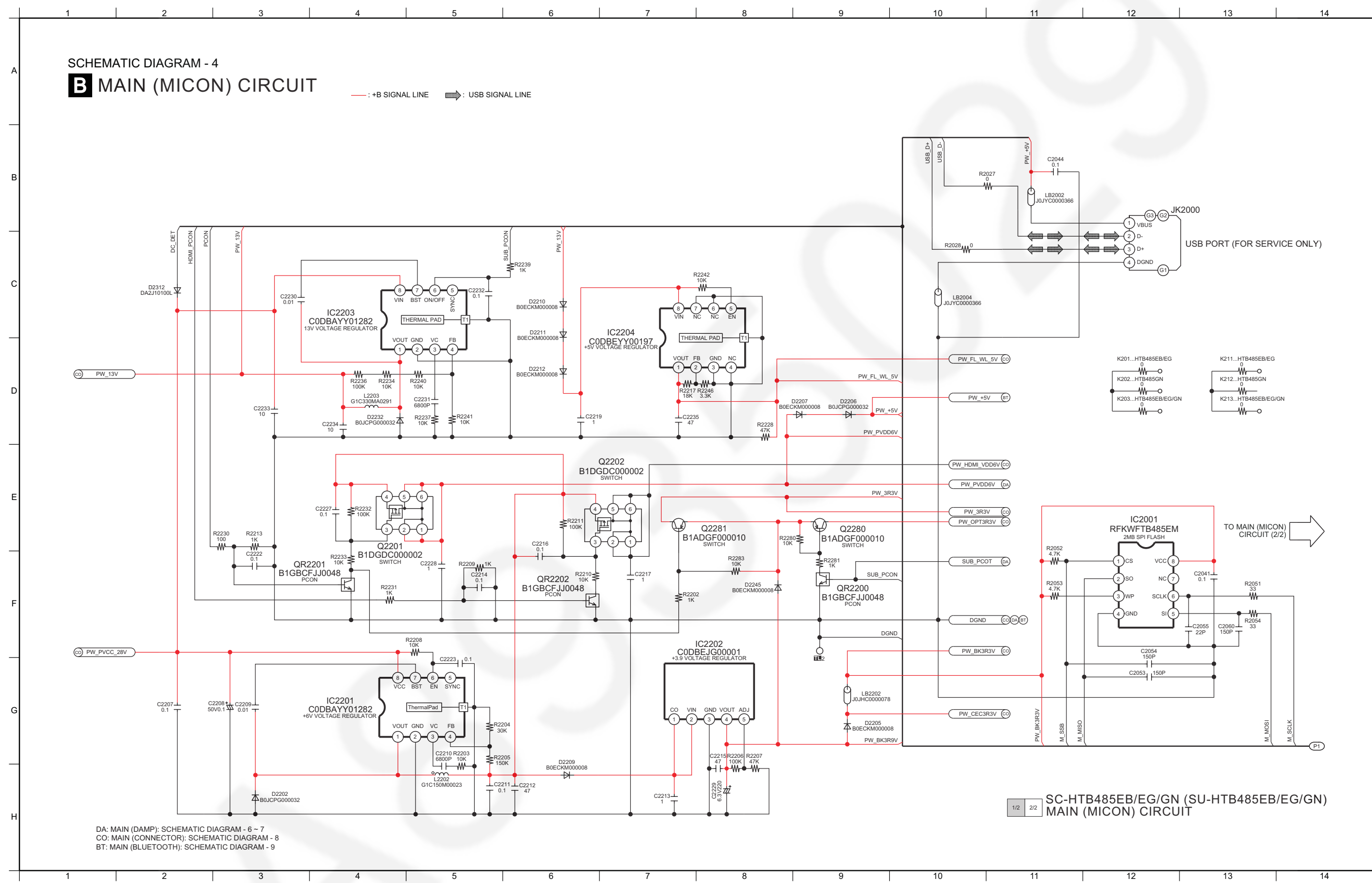
12.2.3. HDMI (CONNECTORS) CIRCUIT

SCHEMATIC DIAGRAM - 3

A HDMI (CONNECTORS) CIRCUIT



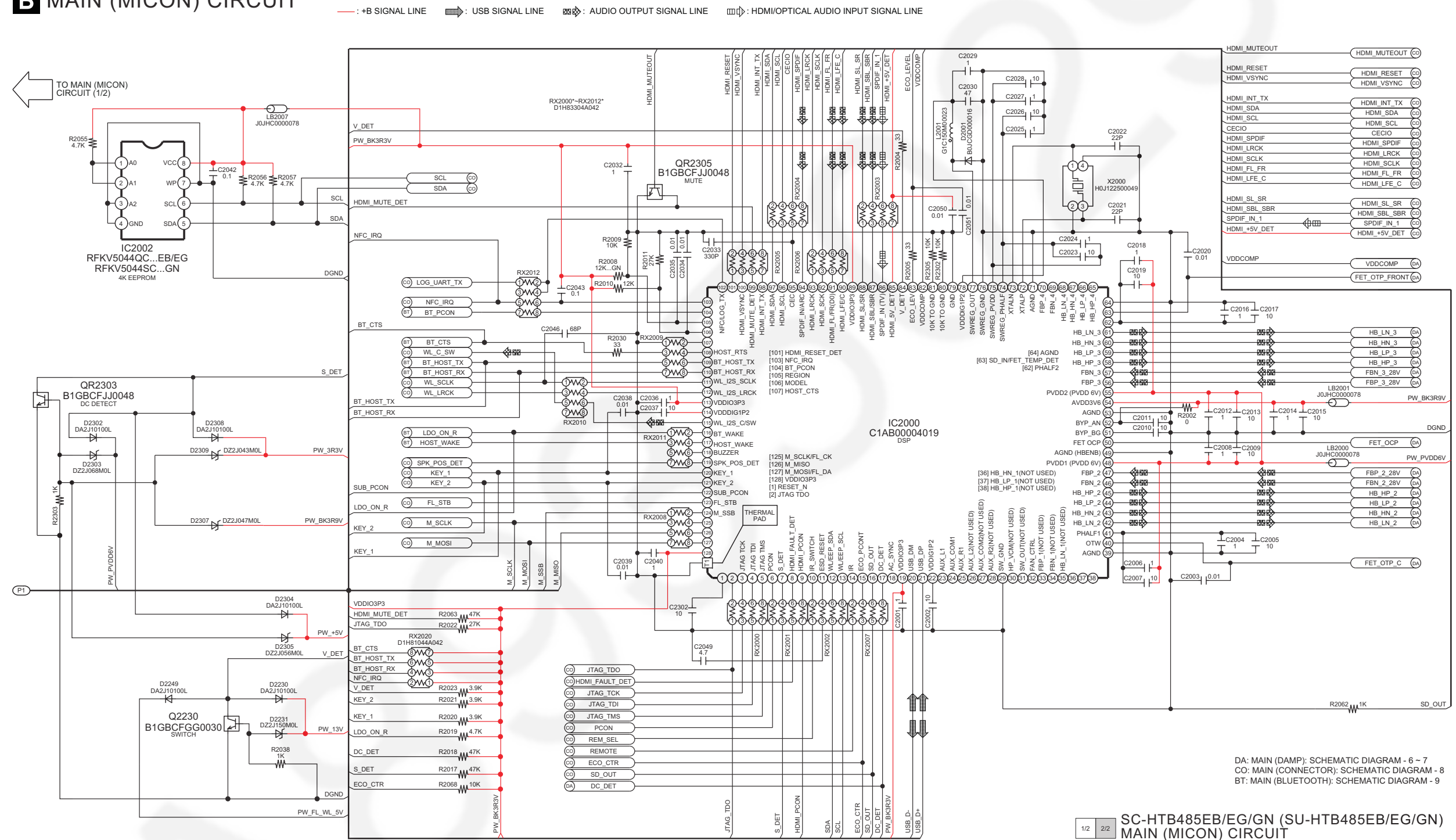
12.2.4. MAIN (MICON) CIRCUIT (1/2)



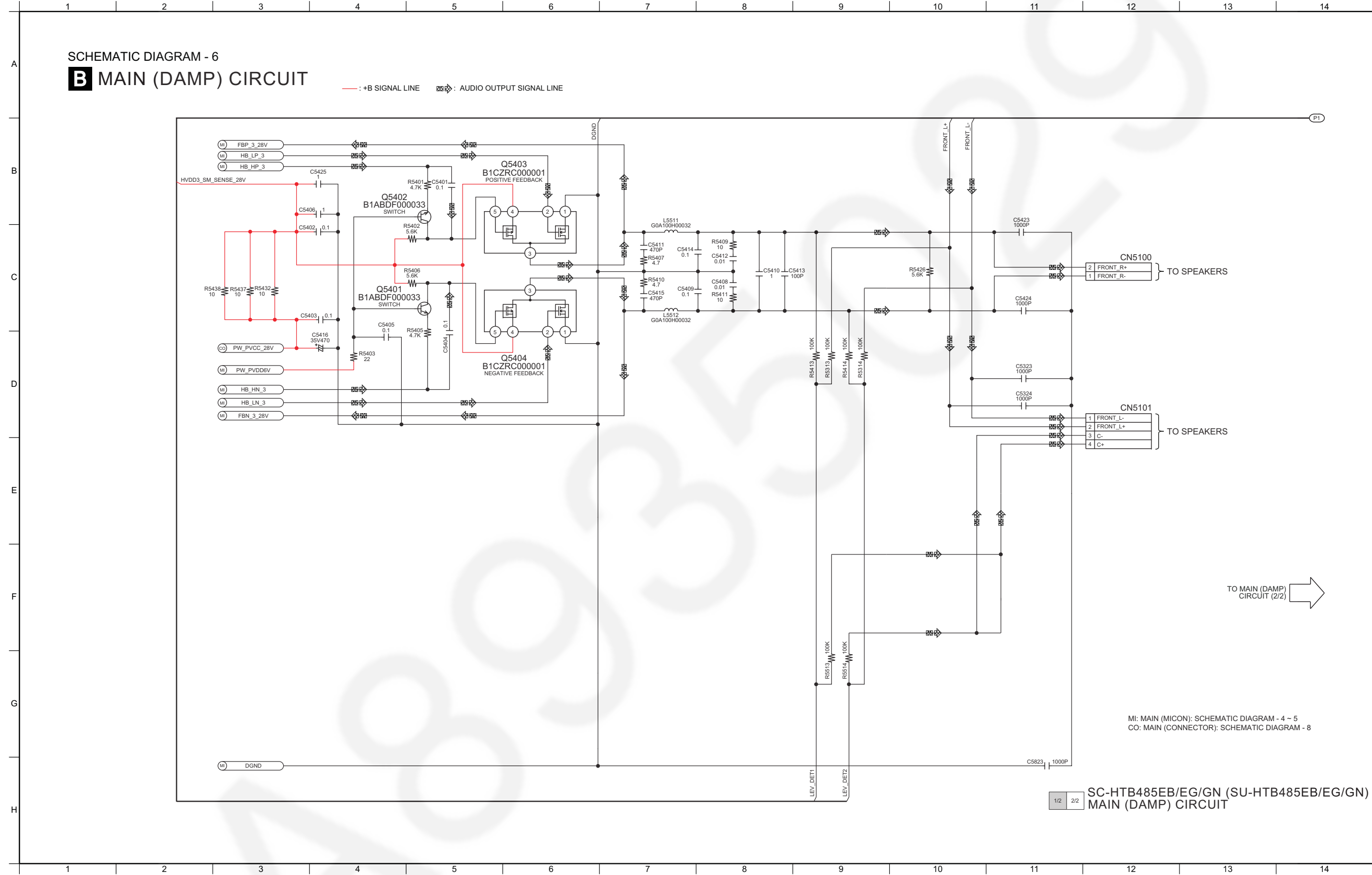
12.2.5. MAIN (MICON) CIRCUIT (2/2)

SCHEMATIC DIAGRAM - 5

B MAIN (MICON) CIRCUIT



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

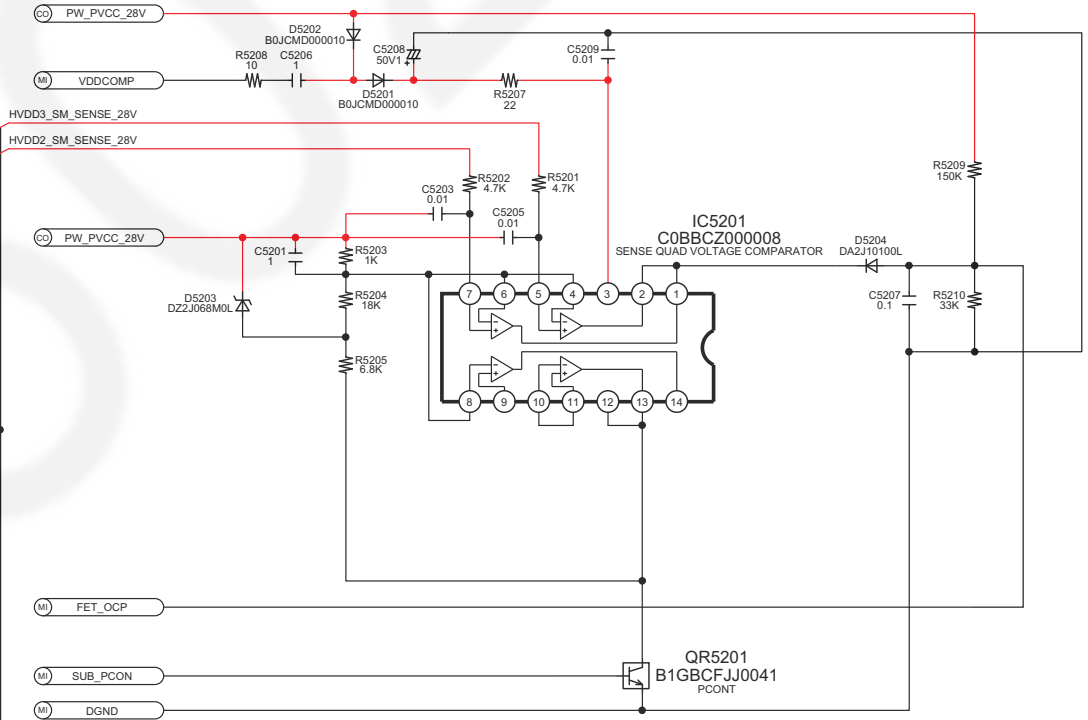
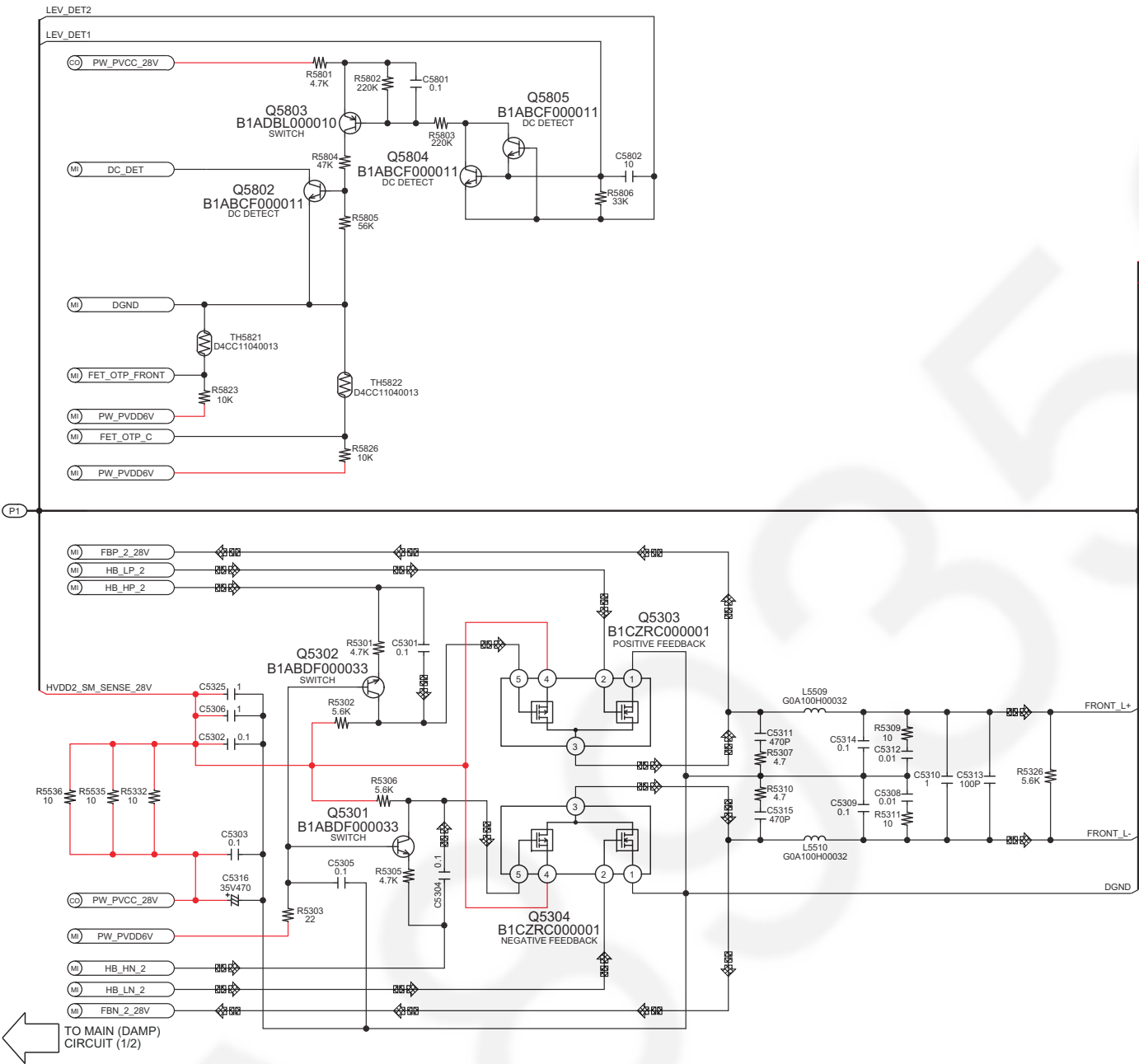


12.2.7. MAIN (DAMP) CIRCUIT (2/2)

SCHEMATIC DIAGRAM - 7

B MAIN (DAMP) CIRCUIT

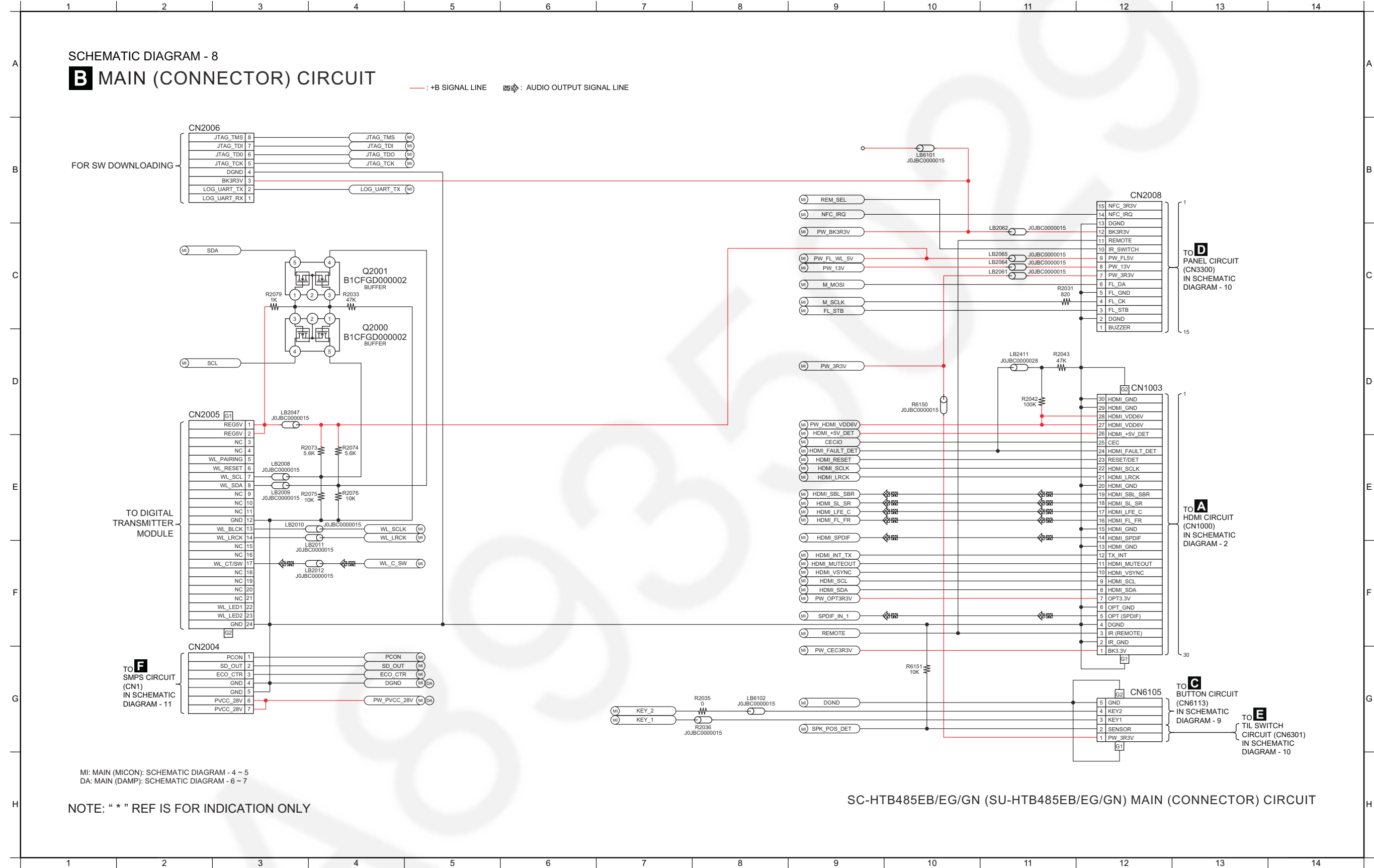
— : +B SIGNAL LINE  : AUDIO OUTPUT SIGNAL LINE



MI: MAIN (MICON); SCHEMATIC DIAGRAM - 4 ~ 5
CO: MAIN (CONNECTOR); SCHEMATIC DIAGRAM - 8

1/2 2/2 SC-HTB485EB/EG/GN (SU-HTB485EB/EG/GN)
MAIN (DAMP) CIRCUIT

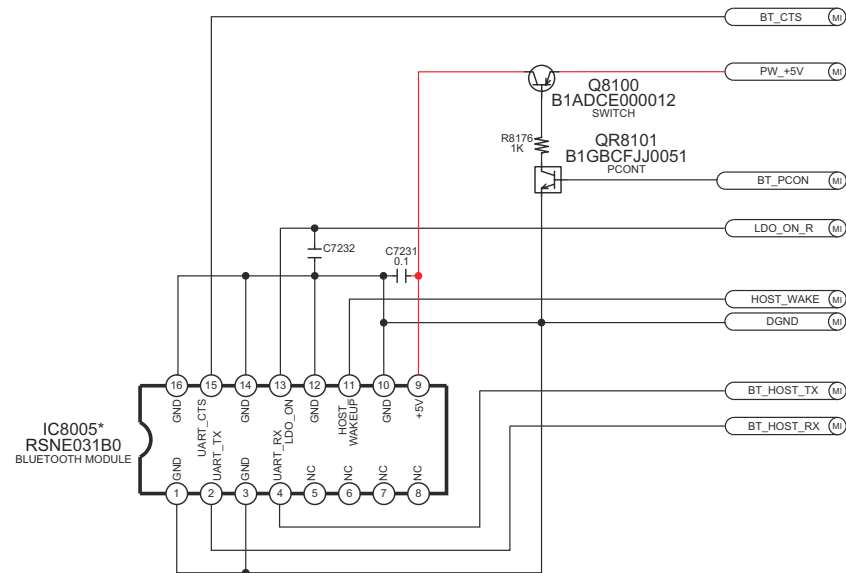
12.2.8. MAIN (CONNECTOR) CIRCUIT



12.2.9. MAIN (BLUETOOTH) & BUTTON CIRCUIT

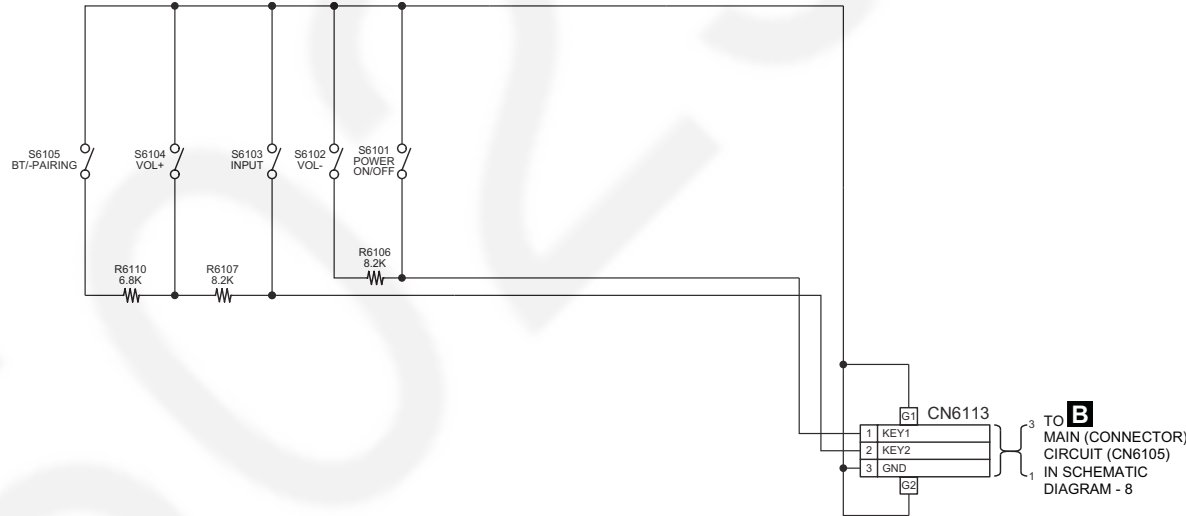
SCHEMATIC DIAGRAM - 9

B MAIN (BLUETOOTH) CIRCUIT



MI: MAIN (MICON): SCHEMATIC DIAGRAM - 4 ~ 5

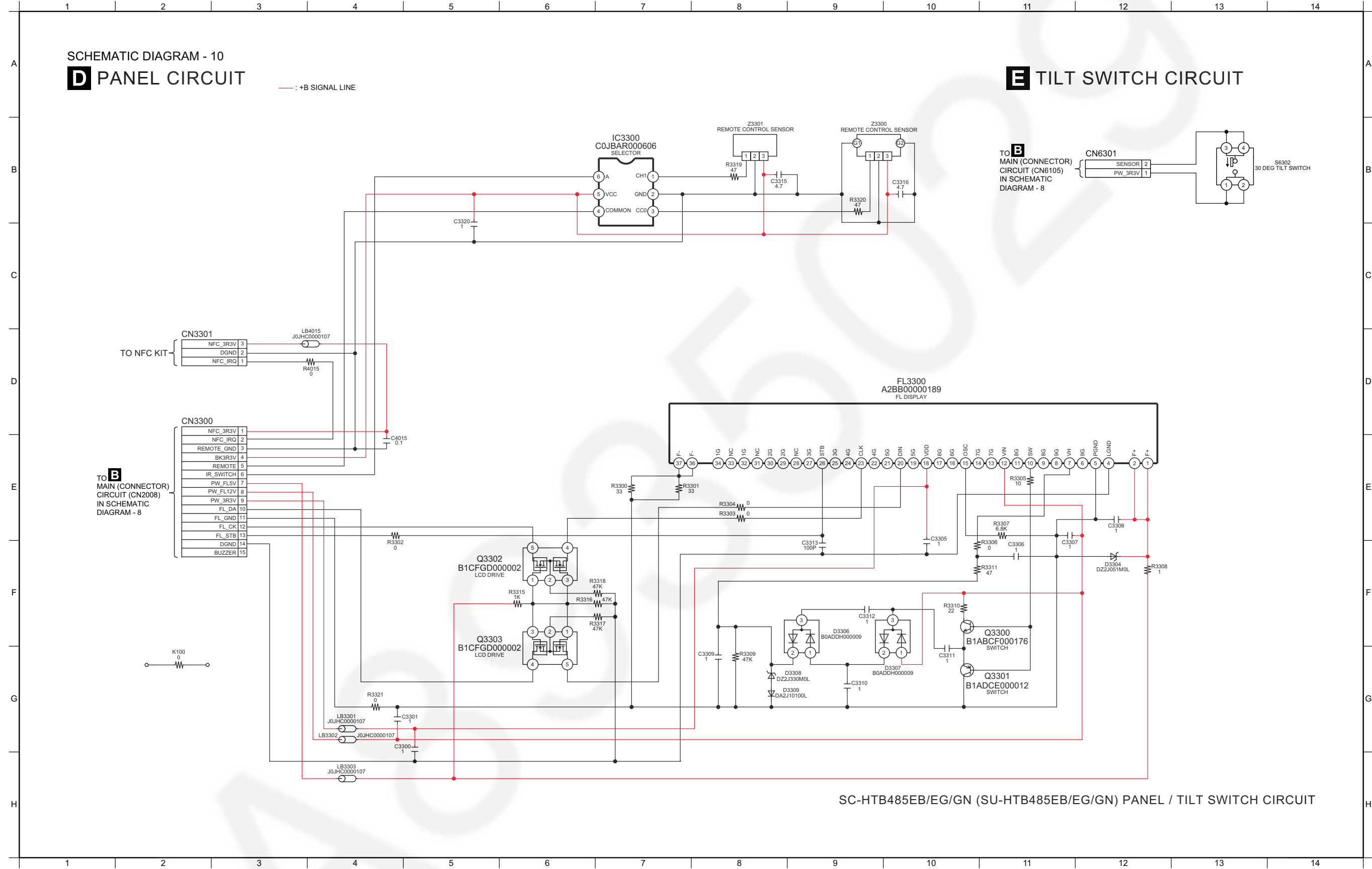
C BUTTON CIRCUIT



NOTE: " * " REF IS FOR INDICATION ONLY

SC-HTB485EB/EG/GN (SU-HTB485EB/EG/GN) MAIN (BLUETOOTH) / BUTTON CIRCUIT

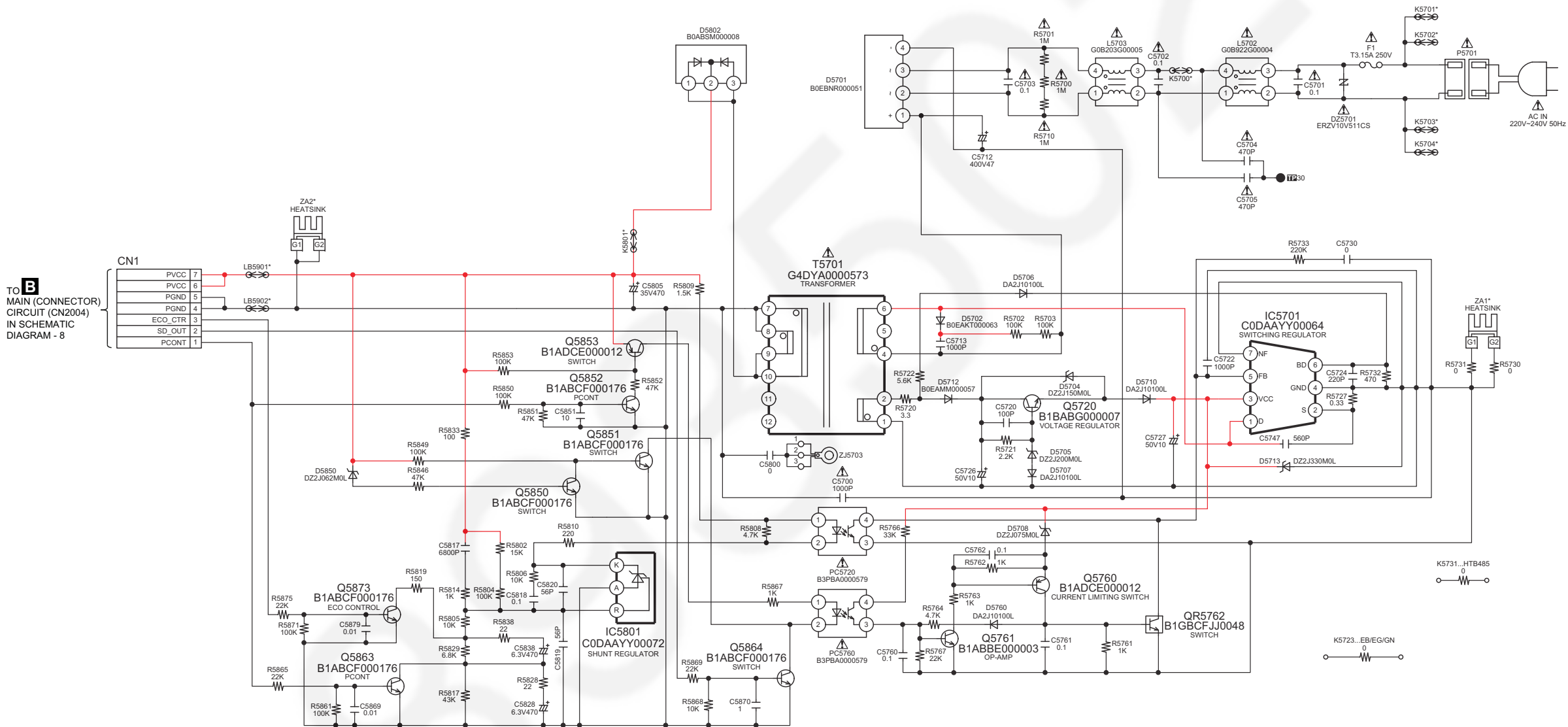
12.2.10. PANEL & TILT SWITCH CIRCUIT



12.2.11. SMPS CIRCUIT

SCHEMATIC DIAGRAM - 11

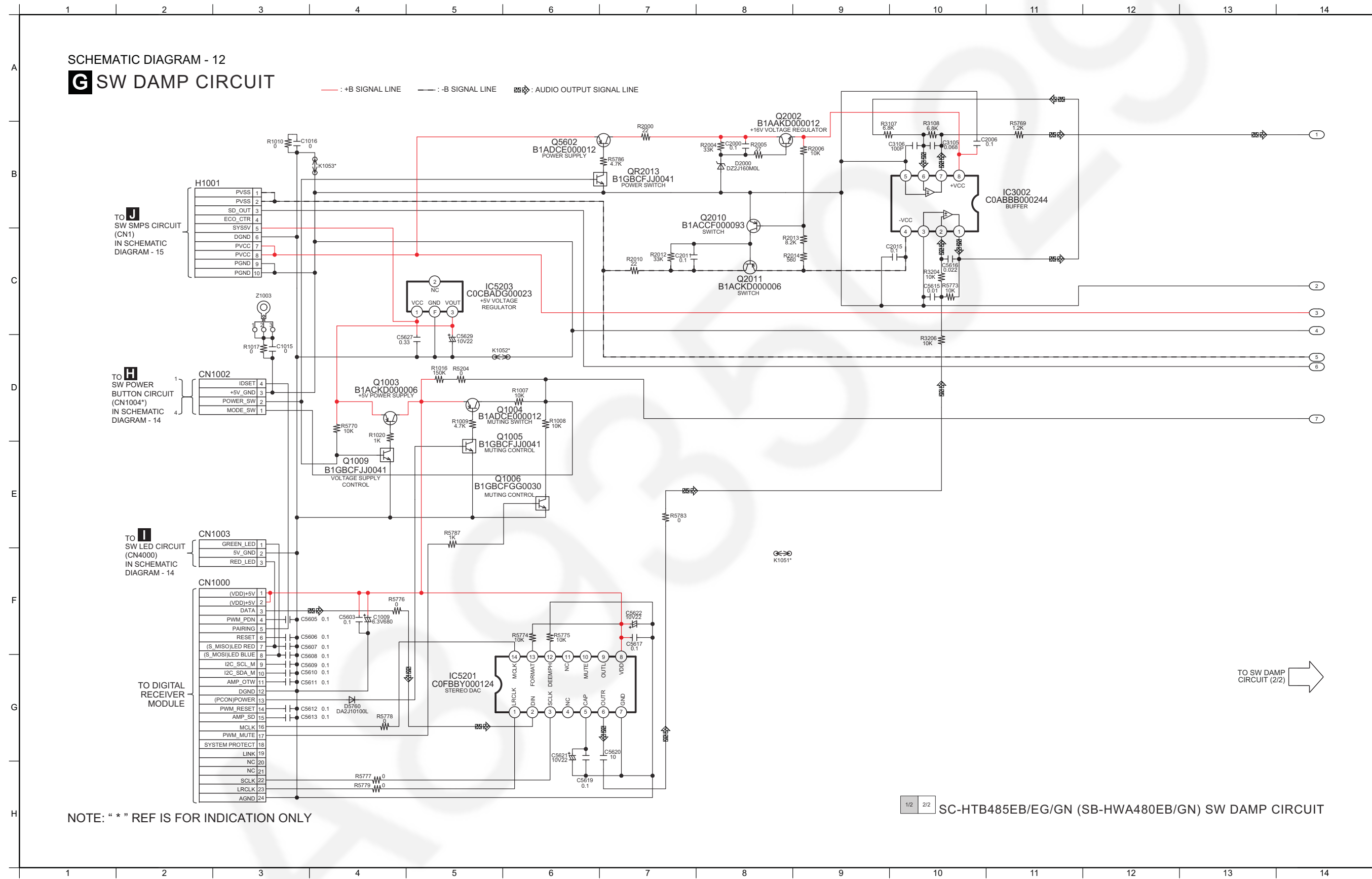
F SMPS CIRCUIT



SC-HTB485EB/EG/GN (SU-HTB485EB/EG/GN) SMPS CIRCUIT

12.3. Active Subwoofer (SB-HWA480)

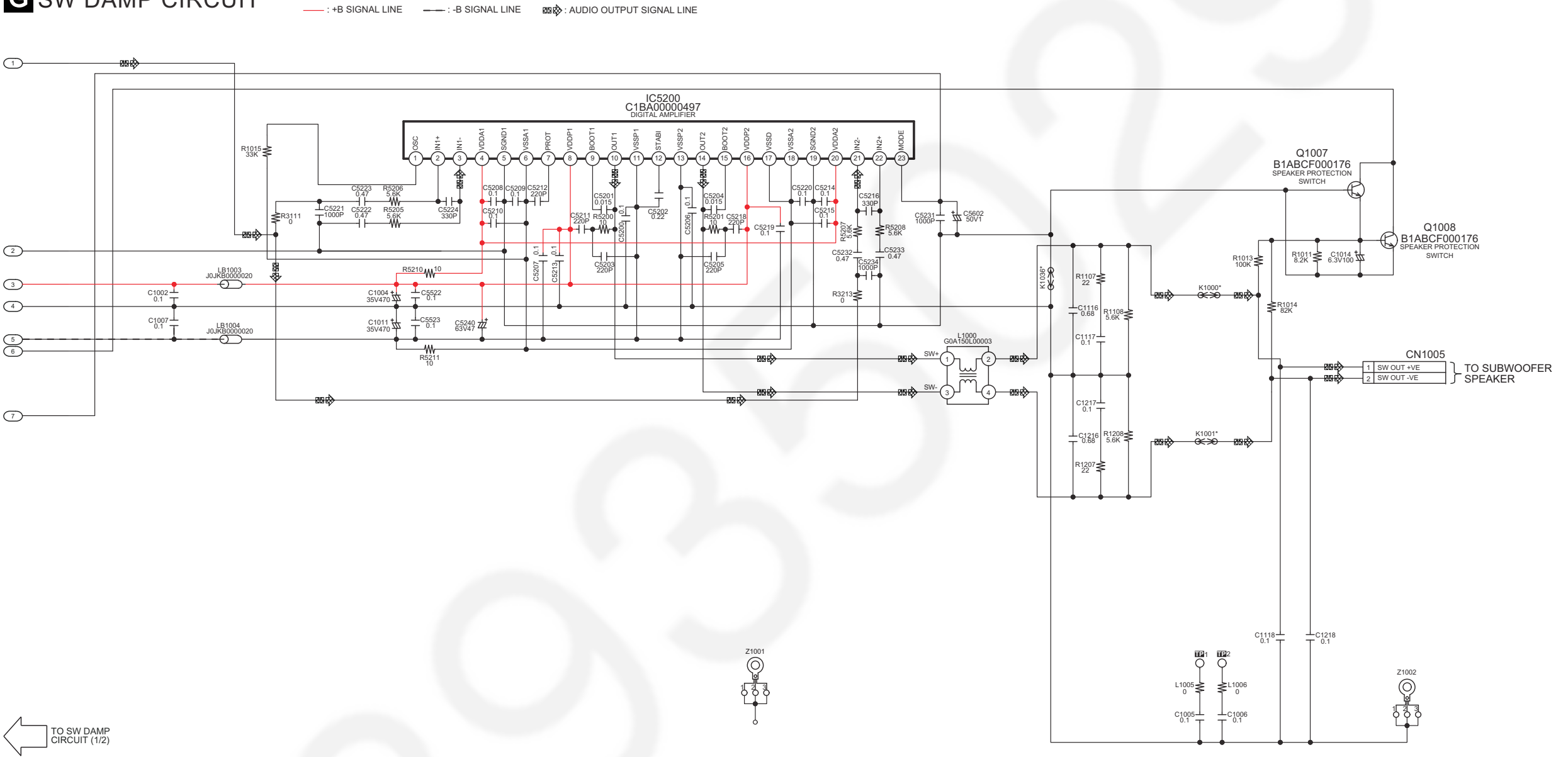
12.3.1. SW DAMP CIRCUIT (1/2)



12.3.2. SW DAMP CIRCUIT (2/2)

SCHEMATIC DIAGRAM - 13

G SW DAMP CIRCUIT



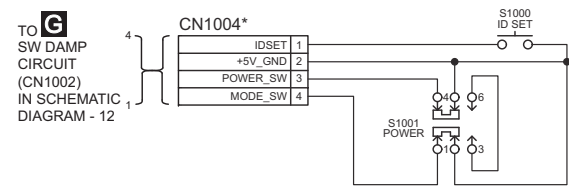
NOTE: " * " REF IS FOR INDICATION ONLY

1/2 2/2 SC-HTB485EB/EG/GN (SB-HWA480EB/GN) SW DAMP CIRCUIT

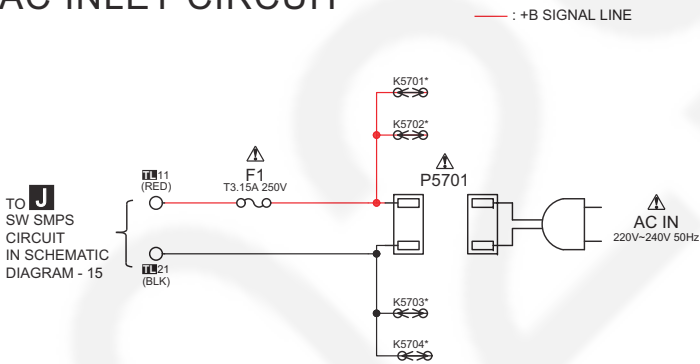
12.3.3. SW POWER BUTTON, SW LED & SW AC INLET CIRCUIT

SCHEMATIC DIAGRAM - 14

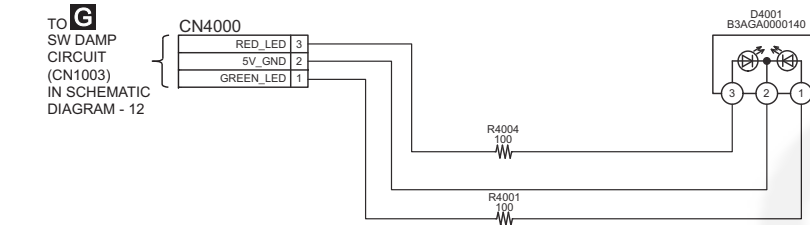
H SW POWER BUTTON CIRCUIT



K SW AC INLET CIRCUIT



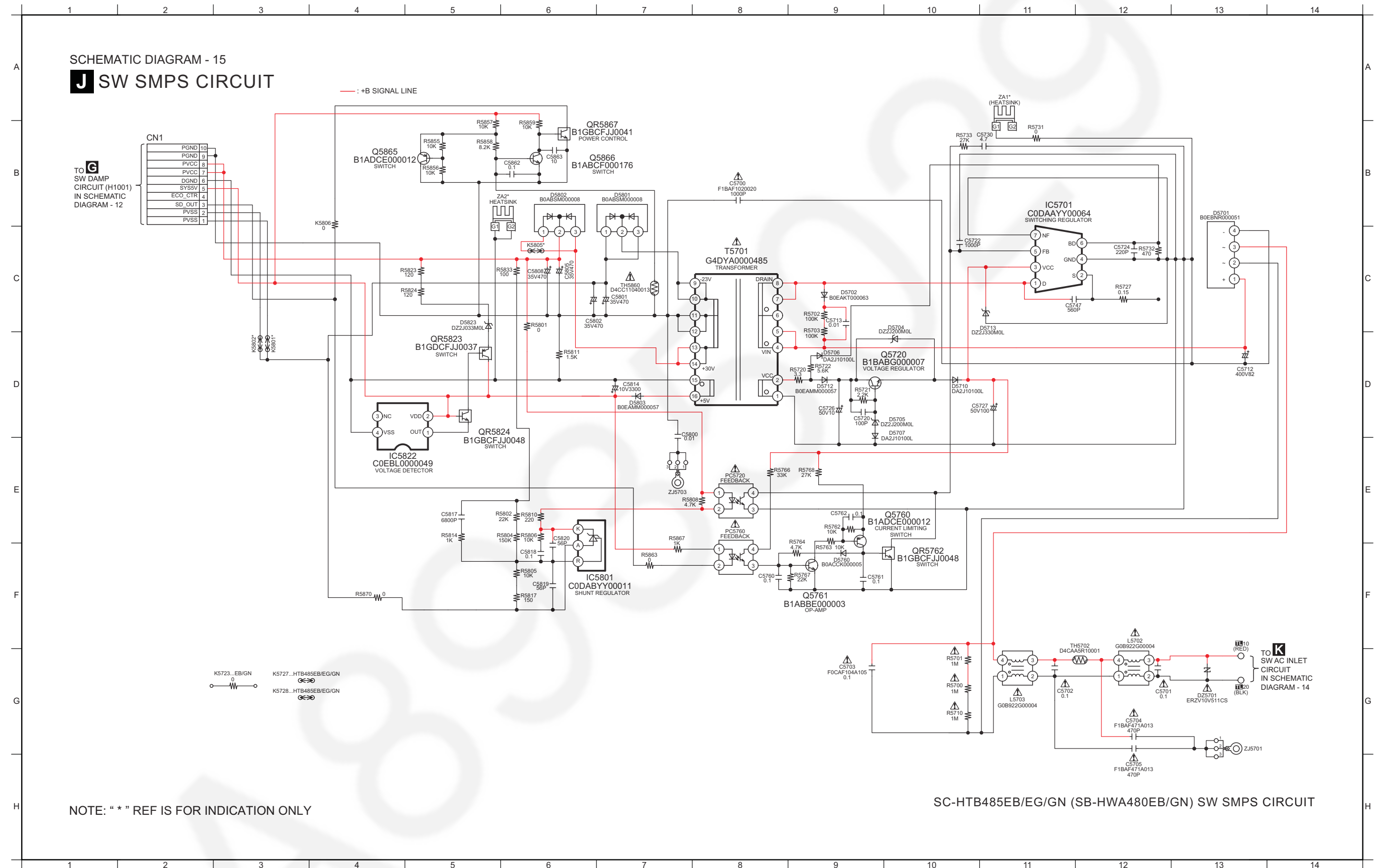
I SW LED CIRCUIT



NOTE: “*” REF IS FOR INDICATION ONLY

SC-HTB485EB/EG/GN (SB-HWA480EB/GN) SW POWER BUTTON / SW LED / SW AC INLET CIRCUIT

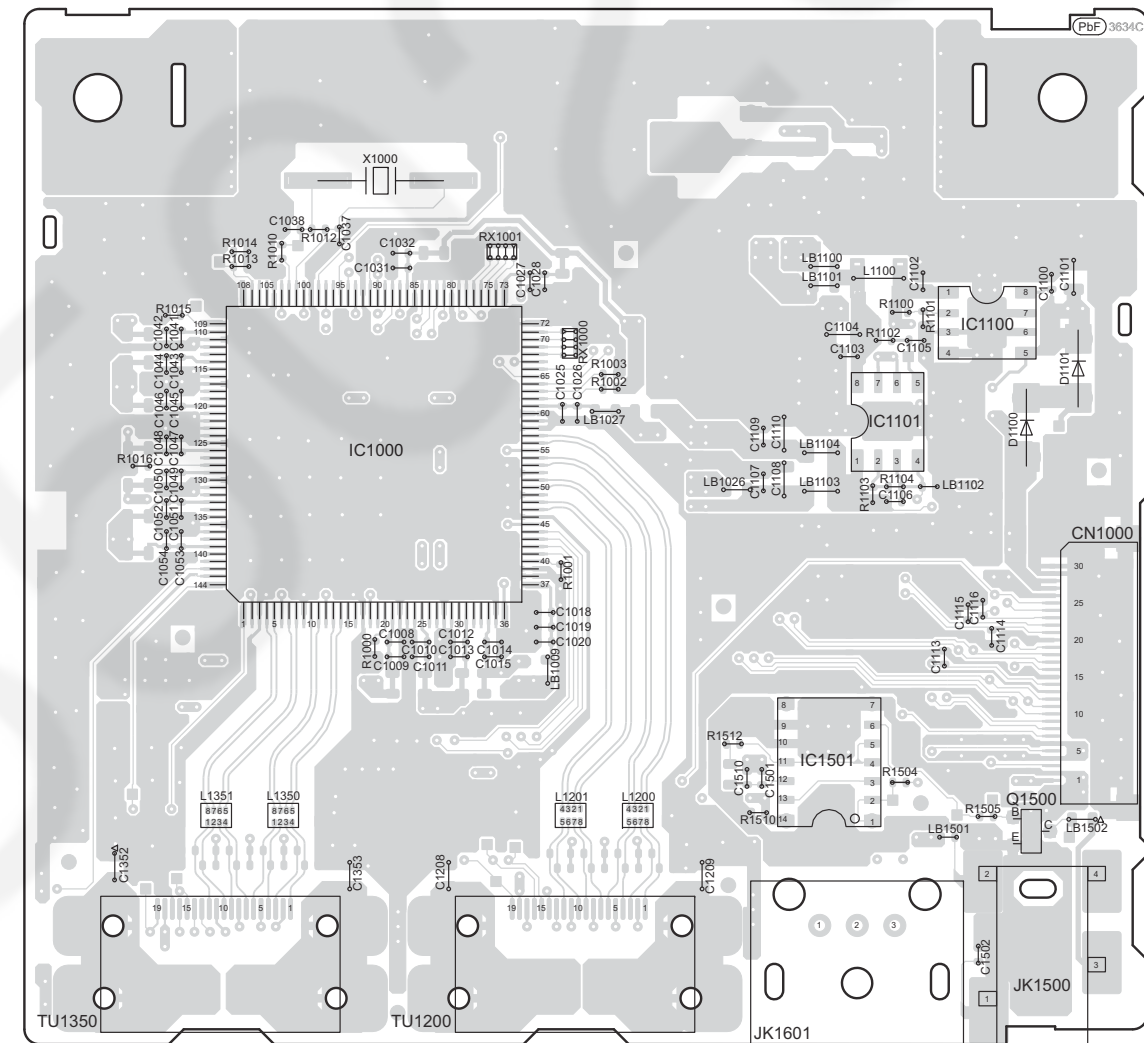
12.3.4. SW SMPS CIRCUIT



13.1.1. HDMI P.C.B.

A HDMI P.C.B. (REP4868D)

A blank coordinate plane with x and y axes. The x-axis is labeled from 1 to 6. The y-axis is labeled with A and B. The origin is labeled O. The text "(SIDE A)" is written in the upper left quadrant.



(SIDE B)

HDMI AV IN
(BD/DVD)

HDMI AV OUT
(TV(ARC))

OPTICAL DIGITAL
AUDIO IN (TV)

Ir SYSTEM

SCART IN (VIDEO)

SCART OUT (VIDEO)

SCART IN (AUDIO)

SC-HTB485EB/EG/GN (SU-HTB485)

SC-HTB485EB/EG/GN (SU-HTB485EB/EG/GN)
HDMI P.C.B.

B MAIN P.C.B. (RFKV5044QA...EB/EG)
(RFKV5044SA...GN)



A
B
C
D
E
F
G
H

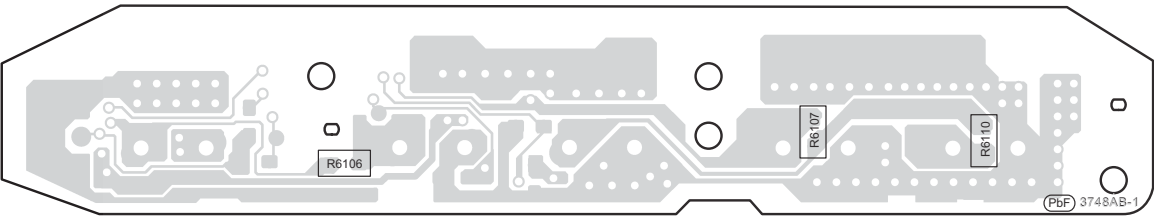
USB PORT
(FOR SERVICE ONLY)

NOTE: " * " REF IS FOR INDICATION ONLY

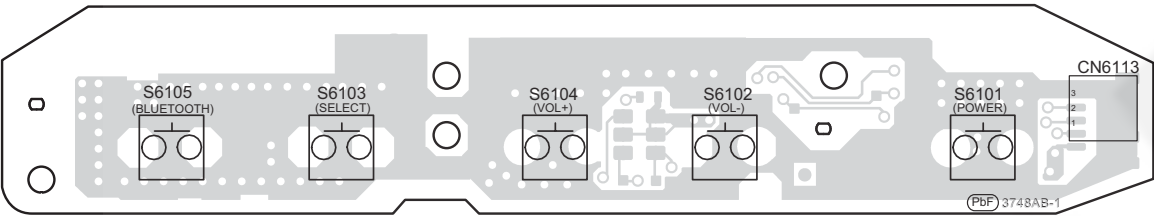


13.1.4. BUTTON, PANEL & TILT SWITCH P.C.B.

C BUTTON P.C.B. (REP5044QB...EB/EG)
(REP5044SB...GN)

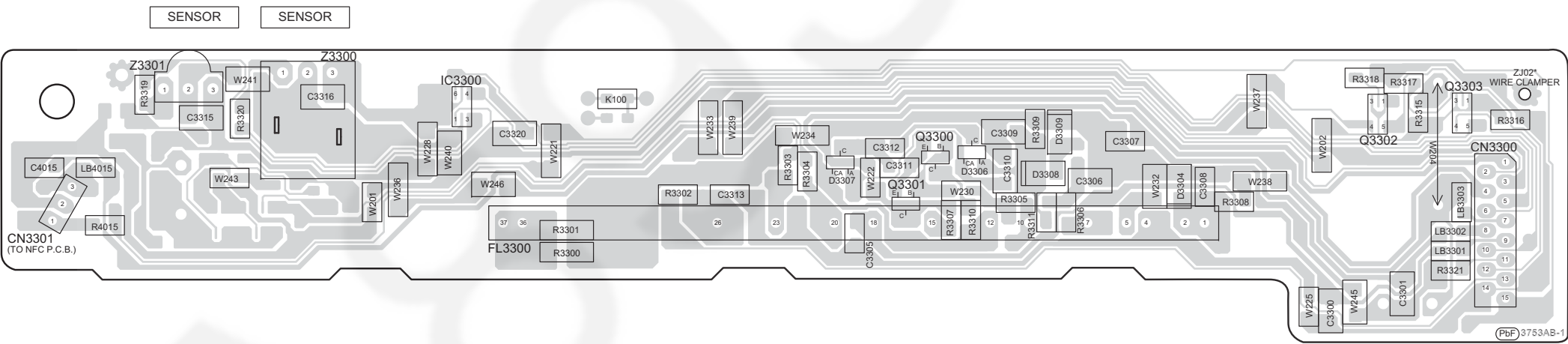


(SIDE A)

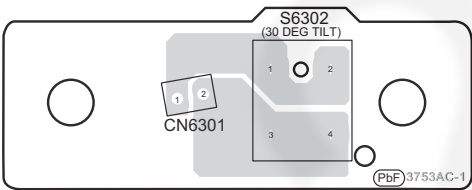


(SIDE B)

D PANEL P.C.B. (REP5047CB)



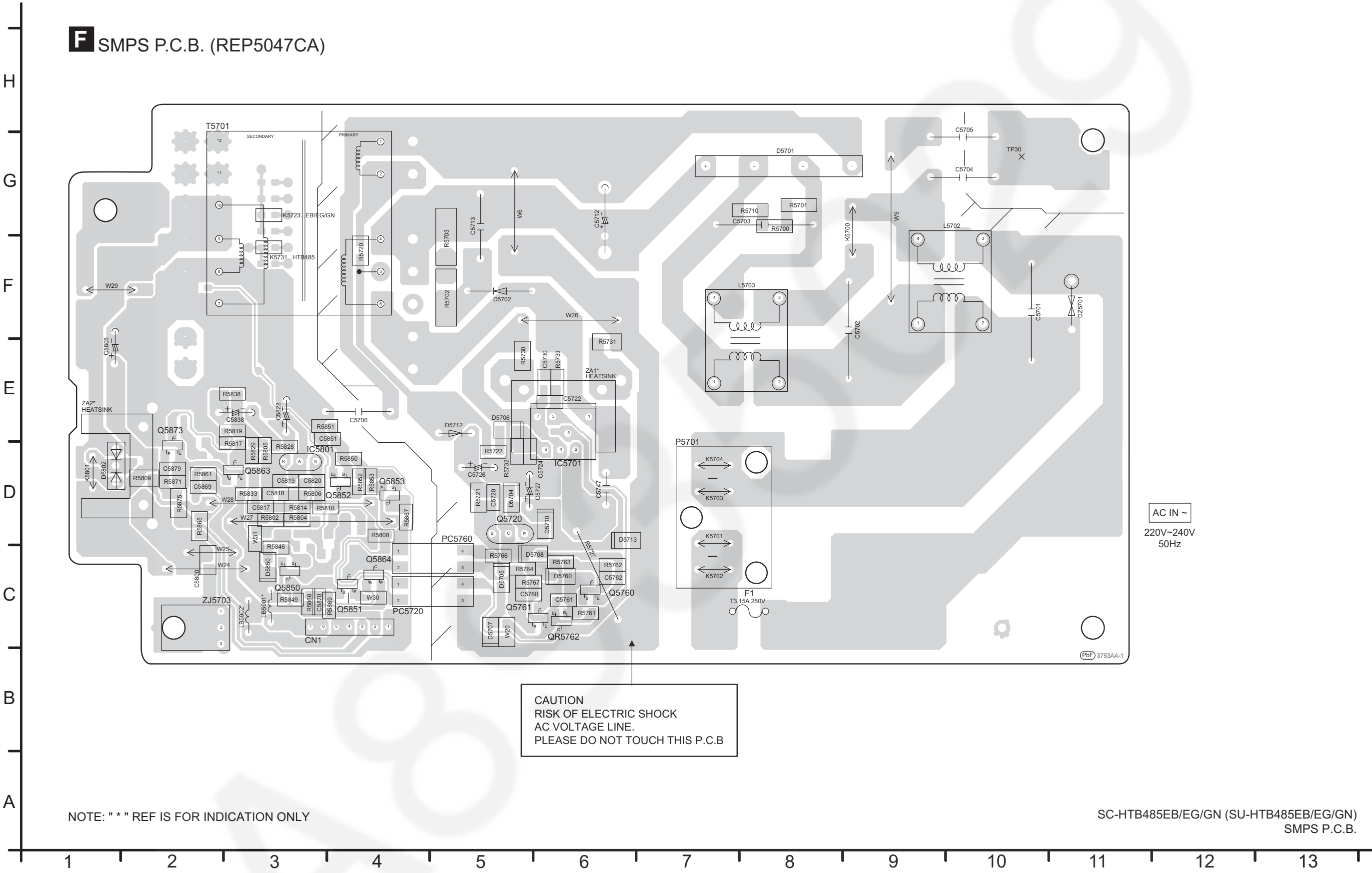
E TILT SWITCH P.C.B. (REP5047CC)



SC-HTB485EB/EG/GN (SU-HTB485EB/EG/GN)
BUTTON / PANEL / TILT SWITCH P.C.B.

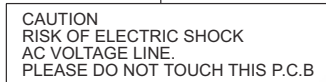
13.1.5. SMPS P.C.B.

F SMPS P.C.B. (REP5047CA)

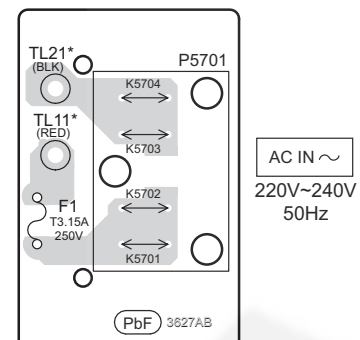


A B C D E F G H

J



K



SC-HTB485EB/EG/GN (SB-HWA480EB/GN)
SW SMPS / 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 Speaker Unit (SU-HTB485)

14.1.1. HDMI P.C.B. (1/2)

REF NO.	IC1000																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER	5.0	1.7	0	0	3.1	3.3	0	3.1	0	3.1	3.1	3.3	3.1	3.1	0	0	0	1.8	1.0	0
STANDBY	5.0	1.7	0	0	3.1	3.3	0	3.1	0	3.1	3.1	3.3	3.1	3.1	0	0	0	1.8	1.0	0

REF NO.	IC1000																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
POWER	1.8	0	0	0	3.3	0	0	0	0	0	3.3	0	0	1.7	0	1.8	1.8	0	0	0
STANDBY	1.8	0	0	0	3.3	0	0	0	0	0	3.3	0	0	1.7	0	1.8	1.8	0	0	0

REF NO.	IC1000																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
POWER	4.5	0	4.9	4.9	1.8	0	3.0	3.0	0	3.0	3.0	0	3.0	3.0	1.8	3.0	3.0	0	0	0
STANDBY	4.5	0	4.9	4.9	1.8	0	3.0	3.0	0	3.0	3.0	0	3.0	3.0	1.8	3.0	3.0	0	0	0

REF NO.	IC1000																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
POWER	1.8	3.3	0	0	0	0	0	0	0	0	0	0	3.3	0	0	0	0	3.3	3.0	0
STANDBY	1.8	3.3	0	0	0	0	0	0	0	0	0	0	3.3	0	0	0	0	3.3	3.0	0

REF NO.	IC1000																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
POWER	1.8	0	3.3	3.4	0	3.4	1.7	0	0	0	0	0	1.8	1.7	1.7	0	3.4	0	0	1.8
STANDBY	1.8	0	3.3	3.4	0	3.4	1.7	0	0	0	0	0	1.8	1.7	1.7	0	3.4	0	0	1.8

REF NO.	IC1000																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
POWER	0.8	0.7	1.8	0	0	0	3.0	0	0	1.8	0	1.7	0.8	3.3	0.8	0.7	0	0.6	0.7	3.3
STANDBY	0.8	0.7	1.8	0	0	0	3.0	0	0	1.8	0	1.7	0.8	3.3	0.8	0.7	0	0.6	0.7	3.3

REF NO.	IC1000																			
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
POWER	0.8	0.6	0	0	0	1.8	0	0	1.7	0	0.6	0.7	3.3	0.7	0.6	0	0.6	0.6	3.3	0.8
STANDBY	0.8	0.6	0	0	0	1.8	0	0	1.7	0	0.6	0.7	3.3	0.7	0.6	0	0.6	0.6	3.3	0.8

REF NO.	IC1000																			
MODE	141	142	143	144																
POWER	0.6	4.9	5.0	5.0																
STANDBY	0.6	4.9	5.0	5.0																

REF NO.	IC1100																			
MODE	1	2	3	4	5	6	7	8												
POWER	3.4	1.0	0	0	4.3	0	0	4.3												
STANDBY	3.4	1.0	0	0	4.3	0	0	4.3												

REF NO.	IC1101									Q1103										
MODE	1	2	3	4	5	6	7	8		E	C	B								
POWER	1.8	0.8	0	0	3.0	0	0	3.3		0	1.8	0.4								
STANDBY	1.8	0.8	0	0	3.0	0	0	3.3		0	1.8	0.4								

SU-HTB485EB/EG/GN HDMI P.C.B.

14.1.2. HDMI P.C.B. (2/2)

REF NO. MODE	IC1200																			
	1	2	3	4	5															
POWER	5.6	0	2.4	5.0	5.6															
STANDBY	5.6	0	2.4	5.0	5.6															
REF NO. MODE	IC1501																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
POWER	3.4	3.4	0	3.4	3.4	0	0	3.4	0	0	3.4	3.4	0	3.4						
STANDBY	3.4	3.4	0	3.4	3.4	0	0	3.4	0	0	3.4	3.4	0	3.4						
REF NO. MODE	Q1200						Q1500													
	1	2	3	4	5		E	C	B											
POWER	3.4	3.4	3.4	3.3	3.3		0	1.7	0											
STANDBY	3.4	3.4	3.4	3.3	3.3		0	1.7	0											
SU-HTB485EB/EG/GN HDMI P.C.B.																				

14.1.3. MAIN P.C.B. (1/2)

REF NO.	IC2000																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER ON	3.4	0	3.4	0	0	3.2	3.4	1.7	3.4	0	3.4	3.4	3.3	3.4	0	3.4	3.4	3.4	3.4	0.9
STANDBY	3.4	0	3.4	0	0	3.2	3.4	1.7	3.4	0	3.4	3.4	3.3	3.4	0	3.4	3.4	3.4	3.4	0.9
REF NO.	IC2000																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
POWER ON	3.4	1.4	1.6	1.6	1.6	1.6	0	0	0	0	0	0	14.5	14.5	2.5	0	2.5	0	0	3.3
STANDBY	3.4	1.4	1.6	1.6	1.6	1.6	0	0	0	0	0	0	14.5	14.5	2.5	0	2.5	0	0	3.3
REF NO.	IC2000																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
POWER ON	3.0	2.5	2.5	1.6	0	14.5	14.5	6.0	0	0	0.8	3.5	0	3.6	6.0	14.5	14.5	0	2.5	0
STANDBY	3.0	2.5	2.5	1.6	0	14.5	14.5	6.0	0	0	0.8	3.5	0	3.6	6.0	14.5	14.5	0	2.5	0
REF NO.	IC2000																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
POWER ON	2.5	2.8	3.3	0	0	0	0	0	0	0	0	1.2	1.0	3.0	3.0	0	1.4	1.2	0	0
STANDBY	2.5	2.8	3.3	0	0	0	0	0	0	0	0	1.2	1.0	3.0	3.0	0	1.4	1.2	0	0
REF NO.	IC2000																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
POWER ON	0	0	0	0	5.0	3.3	0	0	3.4	3.4	0	1.3	1.7	1.7	3.1	3.6	3.1	3.3	3.4	3.4
STANDBY	0	0	0	0	5.0	3.3	0	0	3.4	3.4	0	1.3	1.7	1.7	3.1	3.6	3.1	3.3	3.4	3.4
REF NO.	IC2000																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
POWER ON	0	3.4	0	0	0.5	0.7	0	0	0.7	0.8	1.7	1.7	3.4	1.1	1.2	1.2	1.0	0.8	3.1	3.4
STANDBY	0	3.4	0	0	0.5	0.7	0	0	0.7	0.8	1.7	1.7	3.4	1.1	1.2	1.2	1.0	0.8	3.1	3.4
REF NO.	IC2000																			
MODE	121	122	123	124	125	126	127	128												
POWER ON	3.4	0	0	3.4	0.5	0.8	3.4	3.4												
STANDBY	3.4	0	0	3.4	0.5	0.8	3.4	3.4												
REF NO.	IC2001																			
MODE	1	2	3	4	5	6	7	8												
POWER	3.4	1.3	3.4	0	0	0	1.4	3.4												
STANDBY	3.4	1.3	3.4	0	0	0	1.4	3.4												
REF NO.	IC2201																			
MODE	1	2	3	4	5	6	7	8												
POWER	5.0	0	1.2	1.0	0	29.4	10.1	30.6												
STANDBY	5.0	0	1.2	1.0	0	29.4	10.1	30.6												
REF NO.	IC2202																			
MODE	1	2	3	4	5															
POWER	5.2	5.2	0	4.0	1.4															
STANDBY	5.2	5.2	0	4.0	1.4															

SU-HTB485EB/EG/GN MAIN P.C.B.

14.1.4. MAIN P.C.B. (2/2)

REF NO.	IC2203																						
MODE	1	2	3	4	5	6	7	8															
POWER	13.0	0	1.3	1.0	0	3.4	17.8	30.6															
STANDBY	13.0	0	1.3	1.0	0	3.4	17.8	30.6															
REF NO.	IC2204																						
MODE	1	2	3	4	5	6	7	8															
POWER	5.1	1.0	0	0	10.5	0	0	11.0															
STANDBY	5.1	1.0	0	0	10.5	0	0	11.0															
REF NO.	IC5201																						
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14									
CD PLAY	4.7	4.7	33.3	30.2	31.0	30.2	31.0	30.2	31.0	1.7	1.7	0	0	4.7									
STANDBY	4.7	4.7	33.3	30.2	31.0	30.2	31.0	30.2	31.0	1.7	1.7	0	0	4.7									
REF NO.	Q2000										Q2001												
MODE	1	2	3	4	5					1	2	3	4	5									
CD PLAY	5.0	3.3	5.0	3.3	3.3					5.0	3.3	5.0	3.3	3.3									
STANDBY	5.0	3.3	5.0	3.3	3.3					5.0	3.3	5.0	3.3	3.3									
REF NO.	Q2201								Q2202								Q2230						
MODE	1	2	3	4	5	6			1	2	3	4	5	6			E	C	B				
POWER	6.0	6.0	0.6	6.0	6.0	6.0			6.0	6.0	0.6	6.0	6.0	6.0			0	3.4	0				
STANDBY	6.0	6.0	0.6	6.0	6.0	6.0			6.0	6.0	0.6	6.0	6.0	6.0			0	3.4	0				
REF NO.	Q2280					Q2281					Q5301					Q5302							
MODE	E	C	B		E	C	B		E	C	B		E	C	B								
CD PLAY	3.2	3.2	2.5		3.2	3.2	2.5		5.6	27.8	6.0		5.6	27.8	6.0								
STANDBY	3.2	3.2	2.5		3.2	3.2	2.5		5.6	27.8	6.0		5.6	27.8	6.0								
REF NO.	Q5303							Q5304							Q5401					Q5402			
MODE	1	2	3	4	5		1	2	3	4	5		E	C	B		E	C	B				
CD PLAY	0	2.5	14.5	30.6	27.8		0	2.5	14.5	30.6	27.8		5.6	27.8	6.0		5.6	27.7	6.0				
STANDBY	0	2.5	14.5	30.6	27.8		0	2.5	14.5	30.6	27.8		5.6	27.8	6.0		5.6	27.7	6.0				
REF NO.	Q5403							Q5404							Q5501					Q5502			
MODE	1	2	3	4	5		1	2	3	4	5		E	C	B		E	C	B				
CD PLAY	0	2.5	14.5	30.6	27.8		0	2.5	14.5	30.6	27.8		5.6	27.8	6.0		5.6	27.7	6.0				
STANDBY	0	2.5	14.5	30.6	27.8		0	2.5	14.5	30.6	27.8		5.6	27.8	6.0		5.6	27.7	6.0				
REF NO.	Q5503							Q5504							Q5802					Q5803			
MODE	1	2	3	4	5		1	2	3	4	5		E	C	B		E	C	B				
POWER	0	2.5	14.5	30.6	27.8		0	2.5	14.5	30.6	27.8		0	3.4	0		30.1	0	6.0				
STANDBY	0	2.5	14.5	30.6	27.8		0	2.5	14.5	30.6	27.8		0	3.4	0		30.1	0	6.0				
REF NO.	Q5804					Q5805					QR2200					QR2201					QR2202		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B				
POWER	0	28.8	0		0	28.8	0		0	0	3.4		0	0	2.8		0	0	1.6				
STANDBY	0	28.8	0		0	28.8	0		0	0	3.4		0	0	2.8		0	0	1.6				
REF NO.	QR2303					QR2305					QR5201												
MODE	E	C	B		E	C	B		E	C	B												
POWER	0	3.3	0		0	3.4	0		0	0	3.4												
STANDBY	0	3.3	0		0	3.4	0		0	0	3.4												
SU-HTB485EB/EG/GN MAIN P.C.B																							

SU-HTB485EB/EG/GN MAIN P.C.B.

14.1.5. PANEL & SMPS 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.	Q3300				Q3301				Q3302						Q3303					
MODE	E	C	B		E	C	B		1	2	3	4	5		1	2	3	4	5	
POWER	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	

SU-HTB485EB/EG/GN PANEL 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
POWER	20.6	21.0	20.0		20.0	0	20.0		0	20.0	0		0	0.9	0
STANDBY	20.6	21.0	20.0		20.0	0	20.0		0	20.0	0		0	0.9	0

REF NO.	Q5852			Q5853			Q5863			Q5864			Q5873		
MODE	E	C	B		E	C	B		E	C	B		E	C	B
POWER	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.	QR5762																		
MODE	E	C	B																
POWER	0	2.1	0																
STANDBY	0	2.1	0																

SU-HTB485EB/EG/GN SMPS P.C.B.

14.2. Active Subwoofer (SB-HWA480)

14.2.1. SW DAMP P.C.B.

REF NO.	IC3002																			
MODE	1	2	3	4	5	6	7	8												
POWER	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
CD 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																	
CD 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						
POWER	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.	IC5203																			
MODE	1	2	3																	
POWER	7.3	0	5																	
STANDBY	7.3	0	5																	

REF NO.	Q1003				Q1004				Q1005				Q1006				Q1007			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
POWER	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	
POWER	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.	Q5602				QR2013															
MODE	E	C	B		E	C	B													
POWER	22.1	22.1	21.3		0	0	2.1													
STANDBY	22.1	22.1	21.3		0	0	2.1													

SB-HWA480EB/GN SW DAMP P.C.B.

14.2.2. SW SMPS P.C.B.

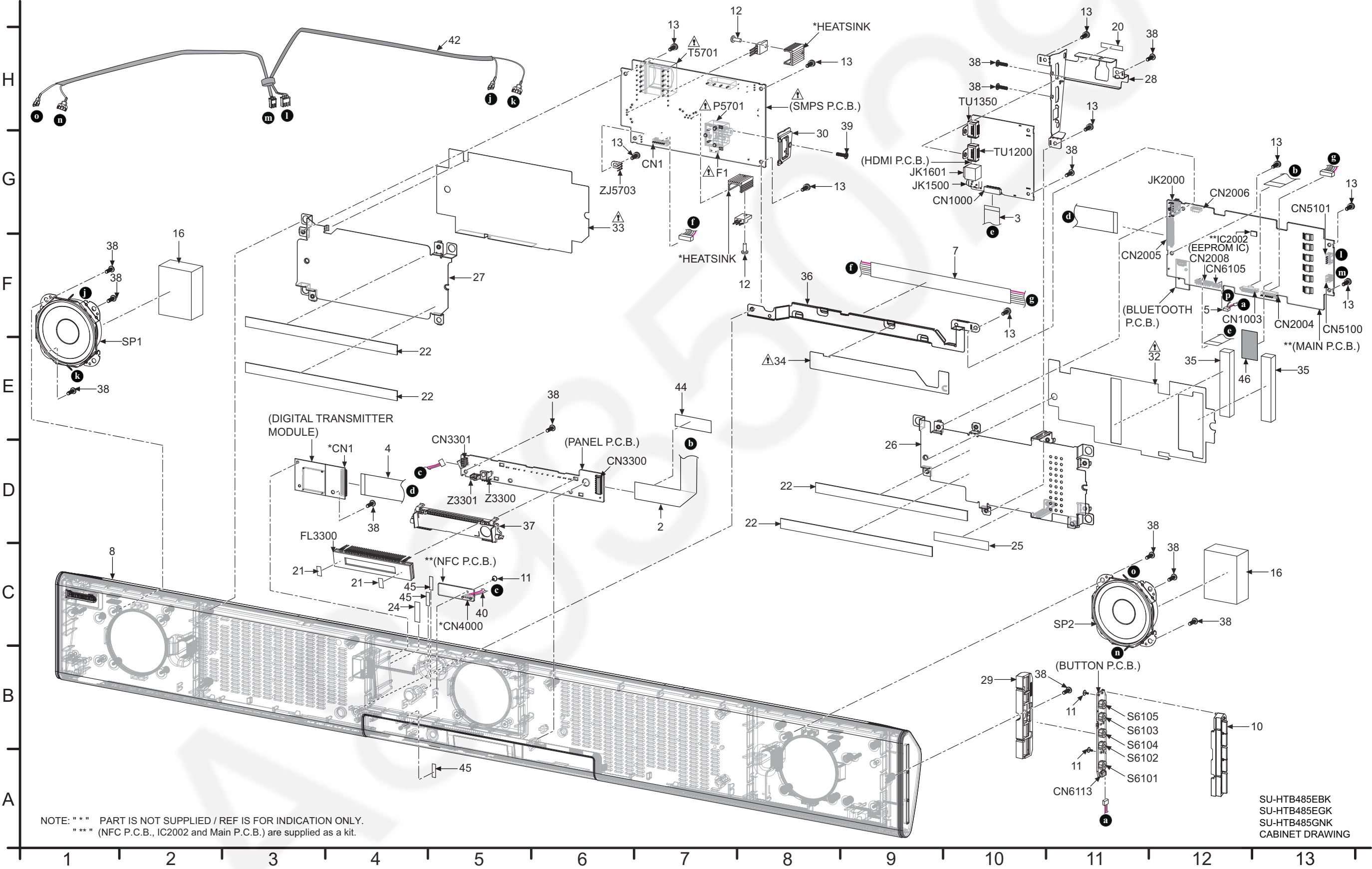
REF NO.	IC5701																		
MODE	1	2	3	4	5	6	7												
POWER	166.6	0	14.4	0	0.9	0.4	0												
STANDBY	166.6	0	14.4	0	0.9	0.4	0												
REF NO.	IC5801																		
MODE	K	A	R																
POWER	16.0	0	2.5																
STANDBY	16.0	0	2.5																
REF NO.	IC5822																		
MODE	1	2	3	4															
POWER	0	7.3	0	0															
STANDBY	0	7.3	0	0															
REF NO.	Q5720				Q5760				Q5761				Q5865				Q5866		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
CD PLAY	20.6	21.0	20.0		20.0	0	20.0		0	20.0	0		1.2	0	0.6		0	0	0.6
STANDBY	20.6	21.0	20.0		20.0	0	20.0		0	20.0	0		1.2	0	0.6		0	0	0.6
REF NO.	QR5762				QR5823				QR5824				QR5867						
MODE	E	C	B		E	C	B		E	C	B		E	C	B				
POWER	0	0.9	0		4.0	3.9	0		0	0	3.9		0	3.5	0				
STANDBY	0	0.9	0		4.0	3.9	0		0	0	3.9		0	3.5	0				

SB-HWA480EB/GN SW SMPS P.C.B.

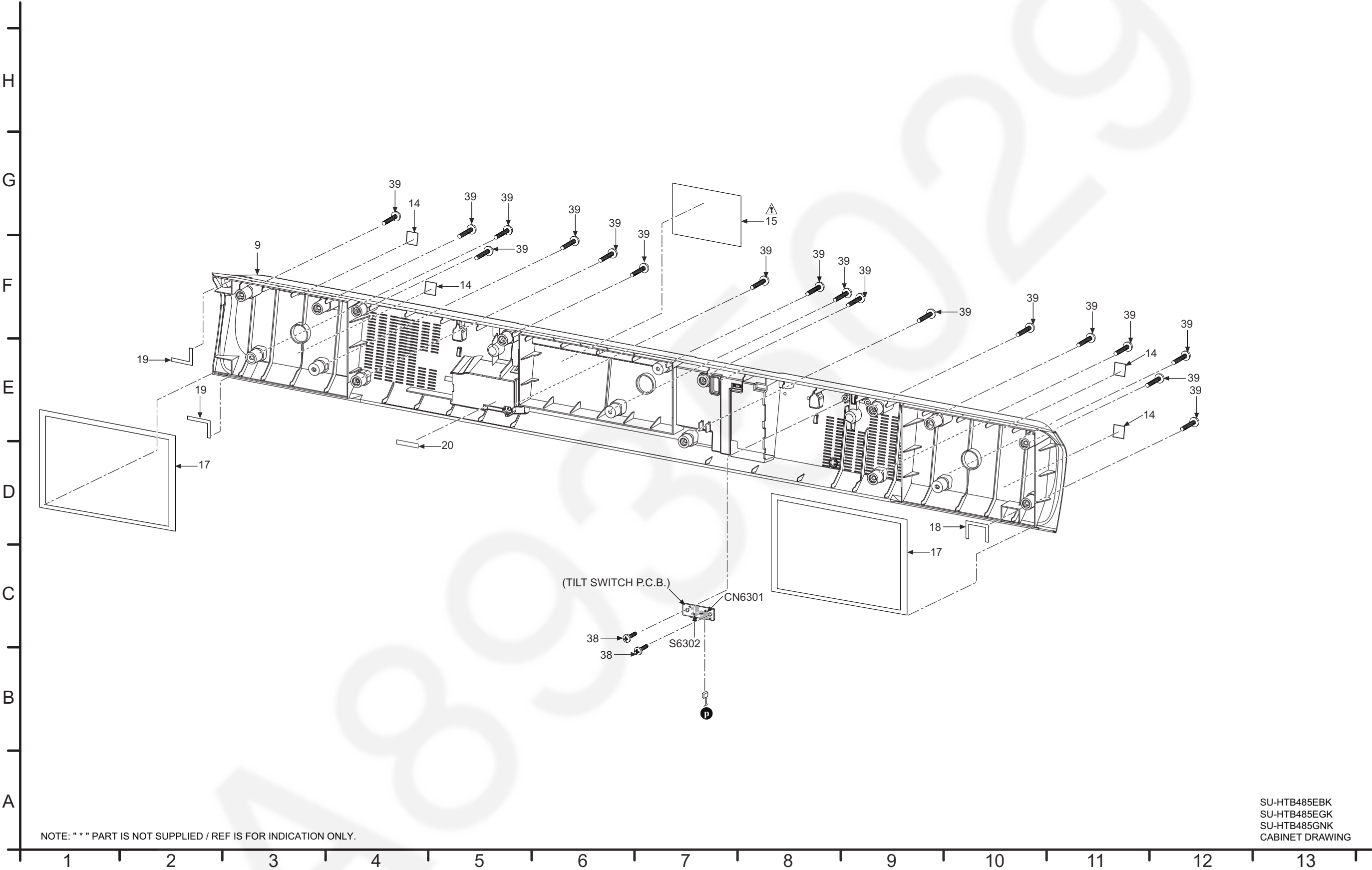
A8935029

15 Exploded View and Replacement Parts List

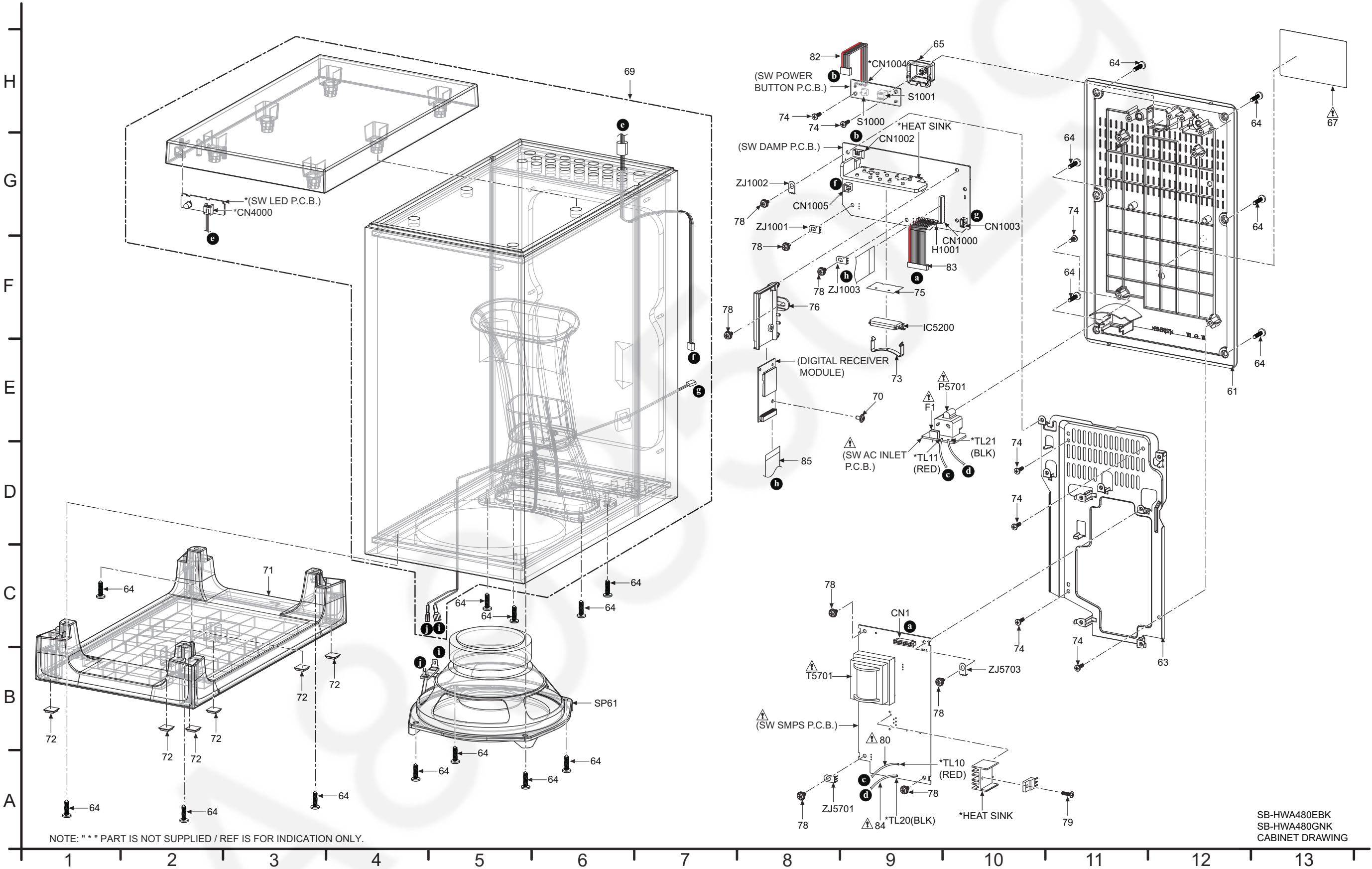
15.1. Cabinet Parts Location-1 (SU-HTB485)



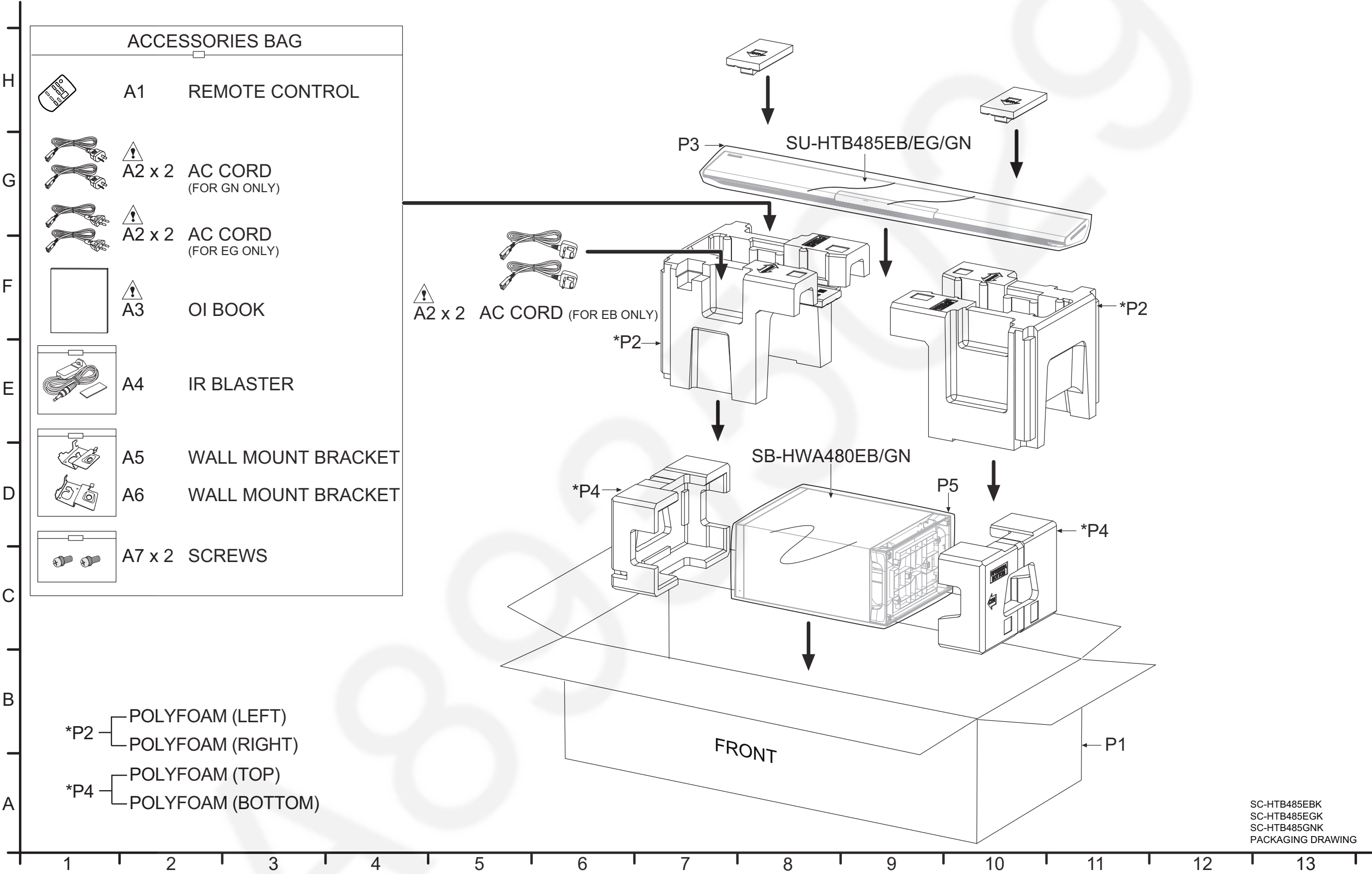
15.2. Cabinet Parts Location-2 (SU-HTB485)



15.3. Cabinet Parts Location (SB-HWA480)



15.4. Packaging (SC-HTB485)



15.5. Mechanical Replacement Parts List

Important Safety Notice

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

RTL (Retention Time Limited)

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

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

Note:

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

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

15.5.1. Main Speaker Unit (SU-HTB485)

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
			CABINET AND CHAS-SIS		
	2	REE1903-1	15P FFC (MAIN-PANEL)	1	
	3	REE1904	30P FFC (MAIN-HDMI)	1	
	4	REE1905-1	24P FFC (MAIN-WIRELESS)	1	
	5	REX1689	5P WIRE (MAIN-BUTTON/TILT SWITCH)	1	
	7	REX1693-1	7P WIRE (SMPS-MAIN)	1	
	8	RYP1960E-K	FRONT CABINET UNIT	1	EB, EG, GN
	9	RYP1966-K2	REAR CABINET UNIT	1	
	10	RGU2953-S	PUSH BUTTON	1	
	11	RHD14136	SCREW	3	
	12	RHD30102-1	SCREW	2	
	13	RHD301002	SCREW	10	
	14	RKA0072-KJ	LEG CUSION	4	
	15	RGN3523-K	NAME PLATE	1	EB, EG
	15	RGN3524-K	NAME PLATE	1	GN
	16	RMF0624	ACOUSTIC ABSORBER	2	
	17	RMF0677	EPT SEALER	2	
	18	RMF0678	EPT SEALER	1	
	19	RMF0679	EPT SEALER	2	
	20	RMF0680	EPT SEALER	2	

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
	21	RMF0681	EPT SEALER	2	
	22	RMF0682	EPT SEALER	4	
	24	RMF0684	EPT SEALER	1	
	25	RMF0698	CHASSIS CUSHION	1	
	26	RMK0872	MAIN CHASSIS	1	
	27	RMK0873	METAL CHASSIS	1	
	28	RMK0874	HDMI CHASSIS	1	
	29	RMR2145-K	BUTTON HOLDER	1	
	30	RMR2146-K	AC INLET HOLDER	1	
	32	RMZ1442	MAIN INSULATOR SHEET	1	
	33	RMZ1443	SMPS INSULATION SHEET	1	
	34	RMZ1446	CONNECTING PLATE PC SHEET	1	
	35	RSC1215	THERMAL ABSORBER	2	
	36	RSC1268	CONNECTING PLATE	1	
	37	RXQ2231	FL HOLDER UNIT	1	
	38	XTB3+10JFK	SCREW	15	
	39	XTB3+12JFK	SCREW	19	
	40	REX1690	3P WIRE (NFC-PANEL)	1	
	42	REX1852	2P SPEAKER WIRE (LEFT & RIGHT-MAIN)	1	
	44	RMF0706	EPT SEALER	1	
	45	RMF0708	EPT SEALER	3	
	46	RMZ1494	PC SHEET	1	
			SPEAKER UNITS		
	SP1	L0AA06A00103	WOOFER SPEAKER (6CM)	1	

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
	SP2	L0AA06A00103	WOOFER SPEAKER (6CM)	1	

15.5.2. Active Subwoofer (SB-HWA480)

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
			CABINET AND CHASSIS		
	61	RYQ1164-K	REAR PANEL ASS'Y	1	
	63	RMK0839	METAL CHASSIS	1	
	64	XTB4+16AFJK	SCREW	18	
	65	RGU2884-K	POWER BUTTON	1	
⚠	67	RGN3530-K	SPEC LABEL	1	HWA480G N
⚠	67	RGN3430-K	SPEC LABEL	1	HWA480E B
	69	RYQ1444C-K	SPEAKER CABINET ASS'Y	1	
	70	RHD30111-31	SCREW	1	
	71	RGP1648-K	BOTTOM PANEL	1	
	72	RKA0072-KJ	LEG CUSHION	6	
	73	RMCM0035	HEAT SINK CLIP A	1	
	74	XTB3+10JFJK	SCREW	7	
	75	RMZX0026-1	IC INSULATOR	1	
	76	RMN1047	DIGITAL TRANSMITTER PCB HOLDER	1	
	78	RHDX301005	SCREW	8	
	79	RHD30102-1	SCREW	1	
⚠	80	REX1635	1P RED WIRE (SW SMPS - SW AC INLET)	1	
	82	REX1436	4P WIRE (SW POWER BUTTON - SW DAMP)	1	
	83	REX1578	10P WIRE (SW DAMP - SW SMPS)	1	
⚠	84	REX1636	1P BLACK WIRE (SW SMPS - SW AC INLET)	1	
	85	REE1941	24 FFC (SW DAMP - DIGITAL RECEIVER MODULE)	1	
			SPEAKER		
	SP61	L0AA16A00063	SUBWOOFER SPEAKER (16CM)	1	
			SERVICE FIXTURE & TOOLS		
	SFT1	REXX1194	2P WIRE (SPK-SW DAMP)	1	

15.5.3. Packaging & Accessories (SC-HTB485)

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
			PACKING MATERIALS		
	P1	RP60Q40-1	PACKING CASE(SC)	1	EB
	P1	RP60Q41-1	PACKING CASE(SC)	1	EG
	P1	RP60Q42-1	PACKING CASE(SC)	1	GN
	P2	RPN2621-2	POLYFOAM(SU)	1	
	P3	RPF0655	MIRAMAT BAG(SU)	1	
	P4	RPN2622	POLYFOAM(SB)	1	
	P5	RPF0588B	MIRAMAT BAG(SB)	1	
			ACCESSORIES		
	A1	N2QAYC000109	REMOTE CONTROL	1	
⚠	A2	K2CJ2YY00101	AC CORD	2	GN
⚠	A2	K2CQ2YY00119	AC CORD	2	EG
⚠	A2	K2CT2YY00097	AC CORD	2	EB
⚠	A3	RQT0A04-B	O/I BOOK (En)	1	
⚠	A3	RQT0A05-D	O/I BOOK (Ge/Fr/It)	1	EG
⚠	A3	RQT0A06-E	O/I BOOK (Sw/Da/Du)	1	EG
⚠	A3	RQT0A14-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	

15.6. Electrical Replacement Parts List

Important Safety Notice

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

RTL (Retention Time Limited)

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

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

Note:

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

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

15.6.1. Main Speaker Unit (SU-HTB485)

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
			PRINTED CIRCUIT BOARDS		
		PCB1	REP4868D	HDMI P.C.B.	1 (RTL)
		PCB2	RFKV5044QA	MAIN P.C.B.	1 (RTL) EB, EG
		PCB2	RFKV5044SA	MAIN P.C.B.	1 (RTL) GN
		PCB3	REP5044QB	BUTTON P.C.B.	1 (RTL) EB, EG
		PCB3	REP5044SB	BUTTON P.C.B.	1 (RTL) GN
		PCB4	RFKV5044QC	NFC P.C.B.	1 EB, EG
		PCB4	RFKV5044SC	NFC P.C.B.	1 GN
		PCB5	REP5047CA	SMPS P.C.B.	1 (RTL)
		PCB7	REP5047CB	PANEL P.C.B.	1 (RTL)
		PCB8	REP5047CC	TILT SW P.C.B.	1 (RTL)
		PCB9	RSNE031B0	BLUETOOTH P.C.B. (IC8005)	
		PCB10	REP4864A	DIGITAL TRANSMITTER MODULE	
			INTEGRATED CIRCUITS		
		IC1000	C1AB00004020	IC	1 (E.S.D) JIGS&AD J
		IC1100	C0DBEYY00175	IC	1 (E.S.D)
		IC1101	C0DBEYY00175	IC	1 (E.S.D)
		IC1200	C0CBCDD00004	IC	1 (E.S.D)
		IC1501	C0JBAC000220	IC	1 (E.S.D)
		IC2000	C1AB00004019	IC	1 (E.S.D)

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
		IC2001	RFKWFTB485EM	IC W/DATA	1 (E.S.D) JIGS&AD J
		IC2002	RFKV5044QC	IC W/DATA	1 (E.S.D) JIGS&AD J
		IC2002	RFKV5044SC	IC W/DATA	1 (E.S.D) JIGS&AD J
		IC2201	C0DBAYY01282	IC	1 (E.S.D)
		IC2202	C0DBEJG00001	IC	1 (E.S.D)
		IC2203	C0DBAYY01282	IC	1 (E.S.D)
		IC2204	C0DBEYY00197	IC	1 (E.S.D)
		IC3300	C0JBAR000606	IC	1 (E.S.D)
		IC5201	C0BBCZ000008	IC	1 (E.S.D)
		IC5701	C0DAAYY00064	IC	1 (E.S.D)
		IC5801	C0DAAYY00072	IC	1 (E.S.D)
			TRANSISTORS		
		Q1103	B1GBCFJJ0048	TRANSISTOR	1 (E.S.D)
		Q1200	B1CFGD000002	TRANSISTOR	1 (E.S.D)
		Q1500	B1ABMF000020	TRANSISTOR	1 (E.S.D)
		Q2000	B1CFGD000002	TRANSISTOR	1 (E.S.D)
		Q2001	B1CFGD000002	TRANSISTOR	1 (E.S.D)
		Q2201	B1DGD0000002	TRANSISTOR	1 (E.S.D)
		Q2202	B1DGD0000002	TRANSISTOR	1 (E.S.D)
		Q2230	B1GBCFG00030	TRANSISTOR	1 (E.S.D)
		Q2280	B1ADGF000010	TRANSISTOR	1 (E.S.D)
		Q2281	B1ADGF000010	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)
		Q5301	B1ABDF000033	TRANSISTOR	1 (E.S.D)
		Q5302	B1ABDF000033	TRANSISTOR	1 (E.S.D)
		Q5303	B1CZRC000001	TRANSISTOR	1 (E.S.D)
		Q5304	B1CZRC000001	TRANSISTOR	1 (E.S.D)

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
	Q5401	B1ABDF000033	TRANSISTOR	1	(E.S.D)
	Q5402	B1ABDF000033	TRANSISTOR	1	(E.S.D)
	Q5403	B1CZRC000001	TRANSISTOR	1	(E.S.D)
	Q5404	B1CZRC000001	TRANSISTOR	1	(E.S.D)
	Q5720	B1BABG000007	TRANSISTOR	1	(E.S.D)
	Q5760	B1ADCE000012	TRANSISTOR	1	(E.S.D)
	Q5761	B1ABBE000003	TRANSISTOR	1	(E.S.D)
	Q5802	B1ABCF000011	TRANSISTOR	1	(E.S.D)
	Q5803	B1ADBL000010	TRANSISTOR	1	(E.S.D)
	Q5804	B1ABCF000011	TRANSISTOR	1	(E.S.D)
	Q5805	B1ABCF000011	TRANSISTOR	1	(E.S.D)
	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)
	Q5873	B1ABCF000176	TRANSISTOR	1	(E.S.D)
	Q8100	B1ADCE000012	TRANSISTOR	1	(E.S.D)
	QR2200	B1GBCFJJ0048	TRANSISTOR	1	(E.S.D)
	QR2201	B1GBCFJJ0048	TRANSISTOR	1	(E.S.D)
	QR2202	B1GBCFJJ0048	TRANSISTOR	1	(E.S.D)
	QR2303	B1GBCFJJ0048	TRANSISTOR	1	(E.S.D)
	QR2305	B1GBCFJJ0048	TRANSISTOR	1	(E.S.D)
	QR5201	B1GBCFJJ0041	TRANSISTOR	1	(E.S.D)
	QR5762	B1GBCFJJ0048	TRANSISTOR	1	(E.S.D)
	QR8101	B1GBCFJJ0051	TRANSISTOR	1	(E.S.D)
			DIODES		
	D1100	B0ECKM000008	DIODE	1	(E.S.D)
	D1101	B0ECKM000008	DIODE	1	(E.S.D)
	D1102	DZ2J068M0L	DIODE	1	(E.S.D)
	D1103	DZ2J039M0L	DIODE	1	(E.S.D)
	D1106	DA2J10100L	DIODE	1	(E.S.D)
	D2001	B0JCGD000016	DIODE	1	(E.S.D)
	D2202	B0JCPG000032	DIODE	1	(E.S.D)
	D2205	B0ECKM000008	DIODE	1	(E.S.D)
	D2206	B0JCPG000032	DIODE	1	(E.S.D)
	D2207	B0ECKM000008	DIODE	1	(E.S.D)
	D2209	B0ECKM000008	DIODE	1	(E.S.D)
	D2210	B0ECKM000008	DIODE	1	(E.S.D)
	D2211	B0ECKM000008	DIODE	1	(E.S.D)
	D2212	B0ECKM000008	DIODE	1	(E.S.D)
	D2230	DA2J10100L	DIODE	1	(E.S.D)
	D2231	DZ2J150M0L	DIODE	1	(E.S.D)
	D2232	B0JCPG000032	DIODE	1	(E.S.D)
	D2245	B0ECKM000008	DIODE	1	(E.S.D)
	D2249	DA2J10100L	DIODE	1	(E.S.D)
	D2302	DA2J10100L	DIODE	1	(E.S.D)
	D2303	DZ2J068M0L	DIODE	1	(E.S.D)
	D2304	DA2J10100L	DIODE	1	(E.S.D)
	D2305	DZ2J056M0L	DIODE	1	(E.S.D)
	D2307	DZ2J047M0L	DIODE	1	(E.S.D)
	D2308	DA2J10100L	DIODE	1	(E.S.D)
	D2309	DZ2J043M0L	DIODE	1	(E.S.D)
	D2312	DA2J10100L	DIODE	1	(E.S.D)
	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)
	D5201	B0JCMD000010	DIODE	1	(E.S.D)
	D5202	B0JCMD000010	DIODE	1	(E.S.D)
	D5203	DZ2J068M0L	DIODE	1	(E.S.D)
	D5204	DA2J10100L	DIODE	1	(E.S.D)
	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)

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
	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)
			SURGE ABSORBER		
⚠	DZ5701	ERZV10V511CS	SURGE ABSORBER	1	(E.S.D)
			SWITCHES		
	S6101	EVQ11G04M	SW POWER ON/OFF	1	
	S6102	EVQ11G04M	SW VOL -	1	
	S6103	EVQ11G04M	SW INPUT	1	
	S6104	EVQ11G04M	SW VOL +	1	
	S6105	EVQ11G04M	SW BT/-PAIRING	1	
	S6302	K0L1BA000078	SW 30 DEG TILT	1	
			CONNECTORS		
	CN1	K1KA07AA0193	7P CONNECTOR	1	
	CN1000	K1MN30BA0173	30P CONNECTOR	1	
	CN1003	K1MN30AA0082	30P CONNECTOR	1	
	CN2004	K1KA07AA0193	7P CONNECTOR	1	
	CN2005	K1MN24BA0147	24P CONNECTOR	1	
	CN2006	K1MN08AA0046	8P CONNECTOR	1	
	CN2008	K1MN15AA0046	15P CONNECTOR	1	
	CN3300	K1MN15B00014	15P CONNECTOR	1	
	CN3301	K1KA03BA0061	3P CONNECTOR	1	
	CN5100	K1KA02AA0186	2P CONNECTOR	1	
	CN5101	K1KA04AA0193	4P CONNECTOR	1	
	CN6105	K1KA05AA0051	5P CONNECTOR	1	
	CN6113	K1KA03BA0014	3P CONNECTOR	1	
	CN6301	K1KA02BA0061	2P CONNECTOR	1	
	TU1200	K1FY119E0073	CONNECTOR	1	
	TU1350	K1FY119E0073	CONNECTOR	1	
			COILS AND INDUC-TORS		
	L1100	G1C100MA0203	INDUCTOR	1	
	L1200	J0ZZB0000148	FILTER	1	
	L1201	J0ZZB0000148	FILTER	1	
	L1350	J0ZZB0000148	FILTER	1	
	L1351	J0ZZB0000148	FILTER	1	
	L2001	G1C150M00023	INDUCTOR	1	
	L2202	G1C150M00023	INDUCTOR	1	
	L2203	G1C330MA0291	INDUCTOR	1	
	L5509	G0A100H00032	CHOKE COIL	1	
	L5510	G0A100H00032	CHOKE COIL	1	
	L5511	G0A100H00032	CHOKE COIL	1	
	L5512	G0A100H00032	CHOKE COIL	1	
⚠	L5702	G0B922G00004	LINE FILTER	1	
⚠	L5703	G0B203G00005	LINE FILTER	1	
	LB1009	J0JHC0000078	INDUCTOR	1	
	LB1017	J0JHC0000078	INDUCTOR	1	
	LB1026	J0JHC0000078	INDUCTOR	1	
	LB1027	J0JHC0000078	INDUCTOR	1	
	LB1100	J0JHC0000078	INDUCTOR	1	
	LB1101	J0JHC0000078	INDUCTOR	1	
	LB1102	D0GAR00J0005	0 1/16W	1	
	LB1103	J0JYC0000366	INDUCTOR	1	
	LB1104	J0JYC0000366	INDUCTOR	1	
	LB1200	J0JCC0000042	INDUCTOR	1	
	LB1201	J0JCC0000042	INDUCTOR	1	
	LB1202	J0JCC0000042	INDUCTOR	1	
	LB1203	J0JCC0000042	INDUCTOR	1	
	LB1204	J0JCC0000042	INDUCTOR	1	
	LB1350	J0JCC0000042	INDUCTOR	1	
	LB1351	J0JCC0000042	INDUCTOR	1	
	LB1352	J0JCC0000042	INDUCTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
	LB1353	J0JCC0000042	INDUCTOR	1	
	LB1500	J0JHC0000078	INDUCTOR	1	
	LB1501	J0JCC0000308	INDUCTOR	1	
	LB1502	J0JBC0000015	INDUCTOR	1	
	LB1600	J0JBC0000014	INDUCTOR	1	
	LB2000	J0JHC0000078	INDUCTOR	1	
	LB2001	J0JHC0000078	INDUCTOR	1	
	LB2002	J0JYC0000366	INDUCTOR	1	
	LB2004	J0JYC0000366	INDUCTOR	1	
	LB2007	J0JHC0000078	INDUCTOR	1	
	LB2008	J0JBC0000015	INDUCTOR	1	
	LB2009	J0JBC0000015	INDUCTOR	1	
	LB2010	J0JBC0000015	INDUCTOR	1	
	LB2011	J0JBC0000015	INDUCTOR	1	
	LB2012	J0JBC0000015	INDUCTOR	1	
	LB2047	J0JBC0000015	INDUCTOR	1	
	LB2061	J0JBC0000015	INDUCTOR	1	
	LB2062	J0JBC0000015	INDUCTOR	1	
	LB2064	J0JBC0000015	INDUCTOR	1	
	LB2065	J0JBC0000015	INDUCTOR	1	
	LB2202	J0JHC0000078	INDUCTOR	1	
	LB2411	J0JBC0000028	INDUCTOR	1	
	LB3301	J0JHC0000107	INDUCTOR	1	
	LB3302	J0JHC0000107	INDUCTOR	1	
	LB3303	J0JHC0000107	INDUCTOR	1	
	LB4015	J0JHC0000107	INDUCTOR	1	
	LB6101	J0JBC0000015	INDUCTOR	1	
	LB6102	J0JBC0000015	INDUCTOR	1	
			TRANSFORMERS		
△	T5701	G4DYA0000573	SWITCHING TRANS-FORMER	1	
			COMPONENT COMBINATION		
	Z3300	B3RAB0000109	REMOTE SENSOR	1	
	Z3301	B3RAD0000209	REMOTE SENSOR	1	
			PHOTO COUPLERS		
△	PC5720	B3PBA0000579	PHOTO COUPLER	1	
△	PC5760	B3PBA0000579	PHOTO COUPLER	1	
			TERMINAL		
	ZJ5703	K4CZ01000027	TERMINAL	1	
			OSCILLATORS		
	X1000	H0J286500042	OSCILLATOR	1	
	X2000	H0J122500049	OSCILLATOR	1	
			FL DISPLAY		
	FL3300	A2BB00000189	FL DISPLAY	1	
			FUSE		
△	F1	K5G312Y00007	FUSE	1	
			THERMISTORS		
	TH5821	D4CC11040013	THERMISTOR	1	
	TH5822	D4CC11040013	THERMISTOR	1	
			JACKS		
	JK1500	K2HC104E0005	JK HEADPHONE	1	
	JK1601	B3RAB0000114	JK OPTICAL	1	
	JK2000	K1FY104A00040	JK USB	1	
△	P5701	K2AA2B000011	AC INLET	1	

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
			CHIP JUMPERS		
	K100	D0GBR00J0004	0 1/10W	1	
	K201	D0GBR00J0004	0 1/10W	1	EB, EG
	K202	D0GBR00J0004	0 1/10W	1	GN
	K203	D0GBR00J0004	0 1/10W	1	
	K211	D0GBR00J0004	0 1/10W	1	EB, EG
	K212	D0GBR00J0004	0 1/10W	1	GN
	K213	D0GBR00J0004	0 1/10W	1	
	K5723	D0GBR00J0004	0 1/10W	1	
	K5731	D0GBR00J0004	0 1/10W	1	
	W20	D0GDR00J0004	0 1/8W	1	
	W30	D0GBR00J0004	0 1/10W	1	
	W31	D0GBR00J0004	0 1/10W	1	
	W201	D0GBR00J0004	0 1/10W	1	
	W202	D0GFR00J0005	0 1/4W	1	
	W221	D0GFR00J0005	0 1/4W	1	
	W222	D0GBR00J0004	0 1/10W	1	
	W225	D0GBR00J0004	0 1/10W	1	
	W228	D0GFR00J0005	0 1/4W	1	
	W230	D0GBR00J0004	0 1/10W	1	
	W232	D0GDR00J0004	0 1/8W	1	
	W233	D0GFR00J0005	0 1/4W	1	
	W234	D0GFR00J0005	0 1/4W	1	
	W236	D0GFR00J0005	0 1/4W	1	
	W237	D0GFR00J0005	0 1/4W	1	
	W238	D0GFR00J0005	0 1/4W	1	
	W239	D0GFR00J0005	0 1/4W	1	
	W240	D0GDR00J0004	0 1/8W	1	
	W241	D0GDR00J0004	0 1/8W	1	
	W243	D0GBR00J0004	0 1/10W	1	
	W245	D0GDR00J0004	0 1/8W	1	
	W246	D0GDR00J0004	0 1/8W	1	
			RESISTORS		
	R1000	D0GA103JA023	10K 1/16W	1	
	R1001	D1BA8870A022	887 1/16W	1	
	R1002	D0GA473JA023	47K 1/16W	1	
	R1003	D0GA473JA023	47K 1/16W	1	
	R1004	D0GA472JA023	4.7K 1/16W	1	
	R1005	D0GA472JA023	4.7K 1/16W	1	
	R1006	D0GA330JA023	33 1/16W	1	
	R1007	D0GA330JA023	33 1/16W	1	
	R1008	D0GA330JA023	33 1/16W	1	
	R1009	D0GA473JA023	47K 1/16W	1	
	R1010	D0GAR00J0005	0 1/16W	1	
	R1012	D0GA394JA023	390K 1/16W	1	
	R1013	D0GA102JA023	1K 1/16W	1	
	R1014	D0GA102JA023	1K 1/16W	1	
	R1015	D0GA103JA023	10K 1/16W	1	
	R1016	D0GA103JA023	10K 1/16W	1	
	R1020	D0GA472JA023	4.7K 1/16W	1	
	R1021	D0GA472JA023	4.7K 1/16W	1	
	R1022	D0GA472JA023	4.7K 1/16W	1	
	R1100	D1BA1502A022	15K 1/16W	1	
	R1101	D1BA4701A022	4.7K 1/16W	1	
	R1102	D0GA104JA023	100K 1/16W	1	
	R1103	D1BA1502A022	15K 1/16W	1	
	R1104	D1BA1202A022	12K 1/16W	1	
	R1105	D0GA103JA023	10K 1/16W	1	
	R1106	D0GA103JA023	10K 1/16W	1	
	R1107	D0GA103JA023	10K 1/16W	1	
	R1109	D0GA473JA023	47K 1/16W	1	
	R1110	D0GA104JA023	100K 1/16W	1	
	R1111	D0GA102JA023	1K 1/16W	1	
	R1112	D0GA102JA023	1K 1/16W	1	
	R1200	D0GA510JA023	51 1/16W	1	
	R1201	D0GA510JA023	51 1/16W	1	
	R1202	D0GA5R1JA023	5.1 1/16W	1	
	R1203	D0GA182JA023	1.8K 1/16W	1	
	R1204	D0GA182JA023	1.8K 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
	R1205	D0GA473JA023	47K 1/16W	1	
	R1206	D0GA103JA023	10K 1/16W	1	
	R1207	D0GA101JA023	100 1/16W	1	
	R1208	D0GA273JA023	27K 1/16W	1	
	R1209	D0GA221JA023	220 1/16W	1	
	R1210	D0GA472JA023	4.7K 1/16W	1	
	R1350	D0GA510JA023	51 1/16W	1	
	R1351	D0GA473JA023	47K 1/16W	1	
	R1352	D0GA104JA023	100K 1/16W	1	
	R1353	D0GA102JA023	1K 1/16W	1	
	R1504	D0GA101JA023	100 1/16W	1	
	R1505	D0GA102JA023	1K 1/16W	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	
	R1600	F1G1C1030008	0.01uF 16V	1	
	R1601	D0GBR00J0004	0 1/10W	1	
	R2002	D0GBR00J0004	0 1/10W	1	
	R2004	D0GB330JA065	33 1/10W	1	
	R2005	D0GA330JA023	33 1/16W	1	
	R2008	D1BA1202A022	12K 1/16W	1	GN
	R2009	D0GA103JA023	10K 1/16W	1	EB, EG
	R2009	D1BA1002A022	10K 1/16W	1	GN
	R2010	D1BA1202A022	12K 1/16W	1	
	R2011	D1BB2702A074	27K 1/10W	1	
	R2017	D0GB473JA065	47K 1/10W	1	
	R2018	D0GB473JA065	47K 1/10W	1	
	R2019	D0GB472JA065	4.7K 1/10W	1	
	R2020	D1BB3901A074	3.9K 1/10W	1	
	R2021	D1BB3901A074	3.9K 1/10W	1	
	R2022	D0GA273JA023	27K 1/16W	1	
	R2023	D0GB392JA065	3.9K 1/10W	1	
	R2027	D0GAR00J0005	0 1/16W	1	
	R2028	D0GAR00J0005	0 1/16W	1	
	R2030	D0GB330JA065	33 1/10W	1	
	R2031	D0GB821JA065	820 1/10W	1	
	R2033	ERJ3GEYJ473V	47K 1/10W	1	
	R2035	D0GBR00J0004	0 1/10W	1	
	R2036	J0JBC0000015	INDUCTOR	1	
	R2038	D0GB102JA065	1K 1/10W	1	
	R2042	D0GB104JA065	100K 1/10W	1	
	R2043	D1BB4302A074	43K 1/10W	1	
	R2051	D0GA330JA023	33 1/16W	1	
	R2052	D0GA472JA023	4.7K 1/16W	1	
	R2053	D0GA472JA023	4.7K 1/16W	1	
	R2054	D0GA330JA023	33 1/16W	1	
	R2055	D0GB472JA065	4.7K 1/10W	1	
	R2056	D0GB472JA065	4.7K 1/10W	1	
	R2057	D0GB472JA065	4.7K 1/10W	1	
	R2062	D0GB102JA065	1K 1/10W	1	
	R2063	D0GA473JA023	47K 1/16W	1	
	R2068	D0GB103JA065	10K 1/10W	1	
	R2073	ERJ3GEYJ562V	5.6K 1/10W	1	
	R2074	ERJ3GEYJ562V	5.6K 1/10W	1	
	R2075	ERJ3GEYJ103V	10K 1/10W	1	
	R2076	ERJ3GEYJ103V	10K 1/10W	1	
	R2079	ERJ3GEYJ102V	1K 1/10W	1	
	R2202	D0GB102JA065	1K 1/10W	1	
	R2203	D0GB103JA065	10K 1/10W	1	
	R2204	D1BB3002A074	30K 1/10W	1	
	R2205	D1BB1503A074	150K 1/10W	1	
	R2206	D1BB1003A074	100K 1/10W	1	
	R2207	D1BB4702A074	47K 1/10W	1	
	R2208	D0GB103JA065	10K 1/10W	1	
	R2209	D0GB102JA065	1K 1/10W	1	
	R2210	D0GB103JA065	10K 1/10W	1	
	R2211	D0GB104JA065	100K 1/10W	1	
	R2213	D0GB102JA065	1K 1/10W	1	
	R2217	D1BB1802A074	18K 1/10W	1	
	R2228	D0GB473JA065	47K 1/10W	1	
	R2230	D0GB101JA065	100 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
	R2231	D0GB102JA065	1K 1/10W	1	
	R2232	D0GB104JA065	100K 1/10W	1	
	R2233	D0GB103JA065	10K 1/10W	1	
	R2234	ERJ3RBD103V	10K 1/16W	1	
	R2236	ERJ3RBD104V	100K 1/16W	1	
	R2237	ERJ3GEYJ103V	10K 1/10W	1	
	R2239	ERJ3GEYJ102V	1K 1/10W	1	
	R2240	ERJ3RBD103V	10K 1/16W	1	
	R2241	ERJ3RBD103V	10K 1/16W	1	
	R2242	D0GB103JA065	10K 1/10W	1	
	R2246	D1BB3301A074	3.3K 1/10W	1	
	R2280	D0GB103JA065	10K 1/10W	1	
	R2281	D0GB102JA065	1K 1/10W	1	
	R2283	D0GB103JA065	10K 1/10W	1	
	R2302	D0GA103JA023	10K 1/16W	1	
	R2303	D0GB102JA065	1K 1/10W	1	
	R2305	D0GA103JA023	10K 1/16W	1	
	R3300	ERJ8GEYJ330V	33 1/4W	1	
	R3301	ERJ8GEYJ330V	33 1/4W	1	
	R3302	J0JHC0000118	INDUCTOR	1	
	R3303	J0JHC0000118	INDUCTOR	1	
	R3304	J0JHC0000118	INDUCTOR	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	D0GB470JA065	47 1/10W	1	
	R3320	D0GB470JA065	47 1/10W	1	
	R3321	D0GBR00J0004	0 1/10W	1	
	R4015	D0GBR00J0004	0 1/10W	1	
	R5201	D0GB472JA065	4.7K 1/10W	1	
	R5202	D0GB472JA065	4.7K 1/10W	1	
	R5203	D1BA1001A022	1K 1/16W	1	
	R5204	D1BA1802A022	18K 1/16W	1	
	R5205	D0GB682JA052	6.8K 1/8W	1	
	R5207	D0GB220JA065	22 1/10W	1	
	R5208	D0GB100JA065	10 1/10W	1	
	R5209	D0GB154JA065	150K 1/10W	1	
	R5210	D0GB333JA065	33K 1/10W	1	
	R5301	D0GA472JA023	4.7K 1/16W	1	
	R5302	D0GA562JA023	5.6K 1/16W	1	
	R5303	D0GB220JA065	22 1/10W	1	
	R5305	D0GA472JA023	4.7K 1/16W	1	
	R5306	D0GA562JA023	5.6K 1/16W	1	
	R5307	D0GB4R7JA065	4.7 1/10W	1	
	R5309	D0GB100JA065	10 1/10W	1	
	R5310	D0GB4R7JA065	4.7 1/10W	1	
	R5311	D0GB100JA065	10 1/10W	1	
	R5313	D0GB104JA065	100K 1/10W	1	
	R5314	D0GB104JA065	100K 1/10W	1	
	R5326	D0GB562JA065	5.6K 1/10W	1	
	R5332	D0GFR10ZA043	10 1/4W	1	
	R5401	D0GA472JA023	4.7K 1/16W	1	
	R5402	D0GA562JA023	5.6K 1/16W	1	
	R5403	D0GB220JA065	22 1/10W	1	
	R5405	D0GA472JA023	4.7K 1/16W	1	
	R5406	D0GA562JA023	5.6K 1/16W	1	
	R5407	D0GB4R7JA065	4.7 1/10W	1	
	R5409	D0GB100JA065	10 1/10W	1	
	R5410	D0GB4R7JA065	4.7 1/10W	1	
	R5411	D0GB100JA065	10 1/10W	1	
	R5413	D0GB104JA065	100K 1/10W	1	
	R5414	D0GB104JA065	100K 1/10W	1	
	R5426	D0GB562JA065	5.6K 1/10W	1	
	R5432	D0GFR10ZA043	10 1/4W	1	
	R5437	D0GFR10ZA043	10 1/4W	1	

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
	R5438	D0GFR10ZA043	10 1/4W	1	
	R5513	D0GB104JA065	100K 1/10W	1	
	R5514	D0GB104JA065	100K 1/10W	1	
	R5535	D0GFR10ZA043	10 1/4W	1	
	R5536	D0GFR10ZA043	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	D0GD3R3JA052	3.3 1/8W	1	
	R5721	D0GD222JA052	2.2K 1/8W	1	
	R5722	D0GB562JA065	5.6K 1/10W	1	
	R5727	ERX2SJR33P	0.33 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	
	R5801	D0GB472JA065	4.7K 1/10W	1	
	R5802	D0GB224JA065	220K 1/10W	1	
	R5802	D1BB1502A074	15K 1/10W	1	
	R5803	D0GB224JA065	220K 1/10W	1	
	R5804	D0GB473JA065	47K 1/10W	1	
	R5804	D1BB1003A074	100K 1/10W	1	
	R5805	D0GB563JA065	56K 1/10W	1	
	R5805	D1BB1002A073	10K 1/10W	1	
	R5806	D0GB103JA065	10K 1/10W	1	
	R5806	D0GB333JA065	33K 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	D1BB4302A073	43K 1/10W	1	
	R5819	D0GB151JA065	150 1/10W	1	
	R5823	D0GB103JA065	10K 1/10W	1	
	R5826	D0GB103JA065	10K 1/10W	1	
	R5828	D0GB220JA065	22 1/10W	1	
	R5829	D1BB6801A074	6.8K 1/10W	1	
	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	
	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	
	R6106	D0GB822JA065	8.2K 1/10W	1	
	R6107	D0GB822JA065	8.2K 1/10W	1	
	R6110	D0GB822JA065	6.8K 1/10W	1	
	R6150	J0JBC0000015	INDUCTOR	1	
	R6151	ERJ3GEYJ103V	10K 1/10W	1	
	R8176	D0GB102JA065	1K 1/10W	1	
			RESISTOR NETWORKS		
	RX1000	D1H81034A042	RESISTOR NETWORK	1	
	RX1001	D1H81034A042	RESISTOR NETWORK	1	
	RX1002	D1H83304A042	RESISTOR NETWORK	1	
	RX2000	D1H83304A042	RESISTOR NETWORK	1	
	RX2001	D1H83304A042	RESISTOR NETWORK	1	

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
	RX2002	D1H83304A042	RESISTOR NETWORK	1	
	RX2003	D1H83304A042	RESISTOR NETWORK	1	
	RX2004	D1H83304A042	RESISTOR NETWORK	1	
	RX2005	D1H83304A042	RESISTOR NETWORK	1	
	RX2006	D1H83304A042	RESISTOR NETWORK	1	
	RX2007	D1H83304A042	RESISTOR NETWORK	1	
	RX2008	D1H83304A042	RESISTOR NETWORK	1	
	RX2009	D1H83304A042	RESISTOR NETWORK	1	
	RX2010	D1H83304A042	RESISTOR NETWORK	1	
	RX2011	D1H83304A042	RESISTOR NETWORK	1	
	RX2012	D1H83304A042	RESISTOR NETWORK	1	
	RX2020	D1H81044A042	RESISTOR NETWORK	1	
			CAPACITORS		
	C1000	F1G1A1040006	0.1uF 10V	1	
	C1001	F1G0J1050007	1uF 6.3V	1	
	C1002	F1G1A1040006	0.1uF 10V	1	
	C1003	F1G0J1050007	1uF 6.3V	1	
	C1004	F1G1A1040006	0.1uF 10V	1	
	C1005	F1G0J1050007	1uF 6.3V	1	
	C1006	F1G1A1040006	0.1uF 10V	1	
	C1007	F1G0J1050007	1uF 6.3V	1	
	C1008	F1G1A1040006	0.1uF 10V	1	
	C1009	F1G0J1050007	1uF 6.3V	1	
	C1010	F1G1A1040006	0.1uF 10V	1	
	C1011	F1G0J1050007	1uF 6.3V	1	
	C1012	F1G1A1040006	0.1uF 10V	1	
	C1013	F1G0J1050007	1uF 6.3V	1	
	C1014	F1G1A1040006	0.1uF 10V	1	
	C1015	F1G0J1050007	1uF 6.3V	1	
	C1016	F1G1A1040006	0.1uF 10V	1	
	C1017	F1G0J1050007	1uF 6.3V	1	
	C1018	F1G1C1030008	0.01uF 16V	1	
	C1019	F1G1A1040006	0.1uF 10V	1	
	C1020	F1G0J1050007	1uF 6.3V	1	
	C1021	F1G1A1040006	0.1uF 10V	1	
	C1022	F1G0J1050007	1uF 6.3V	1	
	C1023	F1G1A1040006	0.1uF 10V	1	
	C1024	F1G0J1050007	1uF 6.3V	1	
	C1025	F1G1A1040006	0.1uF 10V	1	
	C1026	F1G0J1050007	1uF 6.3V	1	
	C1027	F1G1A1040006	0.1uF 10V	1	
	C1028	F1G0J1050007	1uF 6.3V	1	
	C1029	F1G1A1040006	0.1uF 10V	1	
	C1030	F1G0J1050007	1uF 6.3V	1	
	C1031	F1G1A1040006	0.1uF 10V	1	
	C1032	F1G0J1050007	1uF 6.3V	1	
	C1033	F1G1A1040006	0.1uF 10V	1	
	C1034	F1G0J1050007	1uF 6.3V	1	
	C1035	F1G1A1040006	0.1uF 10V	1	
	C1036	F1G0J1050007	1uF 6.3V	1	
	C1037	F1G1H270A834	27pF 50V	1	
	C1038	F1G1H270A834	27pF 50V	1	
	C1039	F1G1A1040006	0.1uF 10V	1	
	C1040	F1G0J1050007	1uF 6.3V	1	
	C1041	F1G1A1040006	0.1uF 10V	1	
	C1042	F1G0J1050007	1uF 6.3V	1	
	C1043	F1G1A1040006	0.1uF 10V	1	
	C1044	F1G0J1050007	1uF 6.3V	1	
	C1045	F1G1A1040006	0.1uF 10V	1	
	C1046	F1G0J1050007	1uF 6.3V	1	
	C1047	F1G1A1040006	0.1uF 10V	1	
	C1048	F1G0J1050007	1uF 6.3V	1	
	C1049	F1G1A1040006	0.1uF 10V	1	
	C1050	F1G0J1050007	1uF 6.3V	1	
	C1051	F1G1A1040006	0.1uF 10V	1	
	C1052	F1G0J1050007	1uF 6.3V	1	
	C1053	F1G1A1040006	0.1uF 10V	1	
	C1054	F1G0J1050007	1uF 6.3V	1	
	C1100	F1G1A1040006	0.1uF 10V	1	
	C1101	F1J1A106A043	10uF 10V	1	
	C1102	F1G0J1050007	1uF 6.3V	1	

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
	C1103	F1G1A1040006	0.1uF 10V	1	
	C1104	F1J1A106A043	10uF 10V	1	
	C1105	F1G1A1040006	0.1uF 10V	1	
	C1106	F1G0J1050007	1uF 6.3V	1	
	C1107	F1G1A1040006	0.1uF 10V	1	
	C1108	F1J1A106A043	10uF 10V	1	
	C1109	F1G1A1040006	0.1uF 10V	1	
	C1110	F1J1A106A043	10uF 10V	1	
	C1113	F1G1H101A834	100pF 50V	1	
	C1114	F1G1H101A834	100pF 50V	1	
	C1115	F1G1H101A834	100pF 50V	1	
	C1116	F1G1H101A834	100pF 50V	1	
	C1200	F1G0J1050007	1uF 6.3V	1	
	C1201	F1G0J1050007	1uF 6.3V	1	
	C1202	F1G0J1050007	1uF 6.3V	1	
	C1203	F1G1A1040006	0.1uF 10V	1	
	C1204	F1G1C1030008	0.01uF 16V	1	
	C1205	F1G0J1050007	1uF 6.3V	1	
	C1206	F1G1C1030008	0.01uF 16V	1	
	C1207	F1G0J1050007	1uF 6.3V	1	
	C1208	F1H1H102A219	1000pF 50V	1	
	C1209	F1H1H102A219	1000pF 50V	1	
	C1350	F1G0J1050007	1uF 6.3V	1	
	C1351	F1G1A1040006	0.1uF 10V	1	
	C1352	F1H1H102A219	1000pF 50V	1	
	C1353	F1H1H102A219	1000pF 50V	1	
	C1370	D06BR00J0004	0 1/10W	1	
	C1501	F1G1A1040006	0.1uF 10V	1	
	C1502	F1G1A1040006	0.1uF 10V	1	
	C1510	F1G1A1040006	0.1uF 10V	1	
	C1600	F1G1C1030008	0.01uF 16V	1	
	C1601	F1J1A106A043	10uF 10V	1	
	C2001	F1G0J1050007	1uF 6.3V	1	
	C2002	F1H0J1060006	10uF 6.3V	1	
	C2003	F1G1C103A146	0.01uF 16V	1	
	C2004	F1G0J1050007	1uF 6.3V	1	
	C2005	F1J1A106A043	10uF 10V	1	
	C2006	F1H1A105A113	1uF 10V	1	
	C2007	F1J1A106A043	10uF 10V	1	
	C2008	F1H1A105A113	1uF 10V	1	
	C2009	F1J1A106A043	10uF 10V	1	
	C2010	F1H0J1060006	10uF 6.3V	1	
	C2011	F1H0J1060006	10uF 6.3V	1	
	C2012	F1H1A105A113	1uF 10V	1	
	C2013	F1J1A106A043	10uF 10V	1	
	C2014	F1G0J1050007	1uF 6.3V	1	
	C2015	F1J1A106A043	10uF 10V	1	
	C2016	F1G0J1050007	1uF 6.3V	1	
	C2017	F1J1A106A043	10uF 10V	1	
	C2018	F1H1A105A113	1uF 10V	1	
	C2019	F1J1A106A043	10uF 10V	1	
	C2020	F1G1C103A146	0.01uF 16V	1	
	C2021	F1G1H220A834	22pF 50V	1	
	C2022	F1G1H220A834	22pF 50V	1	
	C2023	F1J1A106A043	10uF 10V	1	
	C2024	F1H1A105A113	1uF 10V	1	
	C2025	F1H1A105A113	1uF 10V	1	
	C2026	F1J1A106A043	10uF 10V	1	
	C2027	F1H1A105A113	1uF 10V	1	
	C2028	F1J1A106A043	10uF 10V	1	
	C2029	F1G0J1050007	1uF 6.3V	1	
	C2030	F1L1A476A060	47uF 10V	1	
	C2032	F1H1A105A113	1uF 10V	1	
	C2033	F1G1H3310003	330pF 50V	1	
	C2034	F1G1C103A146	0.01uF 16V	1	
	C2035	F1G1C103A146	0.01uF 16V	1	
	C2036	F1H1A105A113	1uF 10V	1	
	C2037	F1H0J1060006	10uF 6.3V	1	
	C2038	F1H1H103B047	0.01uF 50V	1	
	C2039	F1H1H103B047	0.01uF 50V	1	
	C2040	F1H1A105A113	1uF 10V	1	
	C2041	F1G1A1040006	0.1uF 10V	1	
	C2042	F1H1C104A178	0.1uF 16V	1	

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
	C2043	F1G1C104A149	0.1uF 16V	1	
	C2044	F1G1A1040006	0.1uF 10V	1	
	C2046	F1G1H680A541	68pF 50V	1	
	C2049	F1H0J4750004	4.7uF 6.3V	1	
	C2050	F1H1H103B047	0.01uF 50V	1	
	C2051	F1G1C103A146	0.01uF 16V	1	
	C2053	F1G1H151A834	150pF 50V	1	
	C2054	F1G1H151A834	150pF 50V	1	
	C2055	F1G1H220A834	22pF 50V	1	
	C2060	F1G1H151A834	150pF 50V	1	
	C2207	F1H1H104B047	0.1uF 50V	1	
	C2208	EEE1HA100SP	ELECTRI 50V	1	
	C2209	F1H1H103B047	0.01uF 50V	1	
	C2210	F1H1H682B047	6800pF 50V	1	
	C2211	F1G1A1040006	0.1uF 10V	1	
	C2212	F1L1A476A060	47uF 10V	1	
	C2213	F1H1A105A113	1uF 10V	1	
	C2214	F1H1C104A178	0.1uF 16V	1	
	C2215	F1L1A476A060	47uF 10V	1	
	C2216	F1H1H104B047	0.1uF 50V	1	
	C2217	F1H1A105A113	1uF 10V	1	
	C2219	F1H1C105A167	1uF 16V	1	
	C2222	F1H1C104A178	0.1uF 16V	1	
	C2223	F1H1C104A178	0.1uF 16V	1	
	C2227	F1H1H104B047	0.1uF 50V	1	
	C2228	F1H1A105A113	1uF 10V	1	
	C2229	EEE0JA221WP	220uF 6.3V	1	
	C2230	F1H1H103B047	0.01uF 50V	1	
	C2231	F1H1H682B047	6800pF 50V	1	
	C2232	F1H1H104B047	0.1uF 50V	1	
	C2233	F1K1V106A010	10uF 35V	1	
	C2234	F1K1V106A010	10uF 35V	1	
	C2235	F1L1A476A060	47uF 10V	1	
	C2302	F1H0J1060006	10uF 6.3V	1	
	C3300	F1J1E105A287	1uF 25V	1	
	C3301	F1J1E105A287	1uF 25V	1	
	C3305	F1H1E105A153	1uF 25V	1	
	C3306	F1J1H105A918	1uF 50V	1	
	C3307	F1H1E105A153	1uF 25V	1	
	C3308	F1H1A1050040	1uF 10V	1	
	C3309	F1J1H105A918	1uF 50V	1	
	C3310	F1J1E105A287	1uF 25V	1	
	C3311	F1H1E105A153	1uF 25V	1	
	C3312	F1H1E105A153	1uF 25V	1	
	C3313	F1H1H101B052	100pF 50V	1	
	C3315	F1J1A4750011	4.7uF 10V	1	
	C3316	F1J1A4750011	4.7uF 10V	1	
	C3320	F1J1H105A918	1uF 50V	1	
	C4015	F1H1H104B047	0.1uF 50V	1	
	C5201	F1H1E105A153	1uF 25V	1	
	C5203	F1H1H103B047	0.01uF 50V	1	
	C5205	F1H1H103B047	0.01uF 50V	1	
	C5206	F1K1H105A250	1uF 50V	1	
	C5207	F1H1H104B047	0.1uF 50V	1	
	C5208	F2A1H1R0A213	1.0uF 50V	1	
	C5209	F1H1H103B047	0.01uF 50V	1	
	C5301	F1H1H104B047	0.1uF 50V	1	
	C5302	F1H1H104B047	0.1uF 50V	1	
	C5303	F1H1H104B047	0.1uF 50V	1	
	C5304	F1H1H104B047	0.1uF 50V	1	
	C5305	F1G1E1040001	0.1uF 25V	1	
	C5306	F1K1H105A250	1uF 50V	1	
	C5308	F1H1H103B047	0.01uF 50V	1	
	C5309	F1H1H104B047	0.1uF 50V	1	
	C5310	F1K1H105A250	1uF 50V	1	
	C5311	F1H1H471A219	470pF 50V	1	
	C5312	F1H1H103B047	0.01uF 50V	1	
	C5313	F1H1H1010005	100pF 50V	1	
	C5314	F1H1H104B047	0.1uF 50V	1	
	C5315	F1H1H471A219	470pF 50V	1	
	C5316	F2A1V4710074	470uF 35V	1	
	C5323	F1H1H102B047	1000pF 50V	1	
	C5324	F1H1H102B047	1000pF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
			SWITCHES		
	S1000	EVQ21405R	SW I/D SET	1	
	S1001	K0F122B00107	SW POWER	1	
			CONNECTORS		
	CN1	K1KA10AA0194	10P CONNECTOR	1	
	CN1000	K1MN24AA0004	24P CONNECTOR	1	
	CN1002	K1KA04BA0061	4P CONNECTOR	1	
	CN1003	K1KA03AA0193	3P CONNECTOR	1	
	CN1005	K1KA02AA0186	2P CONNECTOR	1	
	CN4000	K1KA03BA0061	3P CONNECTOR	1	
			COILS AND INDUC-TORS		
	L1000	G0A150L00003	CHOKE COIL	1	
⚠	L5702	G0B922G00004	LINE FILTER	1	
⚠	L5703	G0B922G00004	LINE FILTER	1	
	LB1003	J0JKB0000020	INDUCTOR	1	
	LB1004	J0JKB0000020	INDUCTOR	1	
			TRANSFORMERS		
⚠	T5701	G4DYA0000485	TRANSFORMER	1	
			TERMINALS		
	Z1001	K4CZ01000027	TERMINAL	1	
	Z1002	K4CZ01000027	TERMINAL	1	
	Z1003	K4CZ01000027	TERMINAL	1	
	ZJ5701	K4CZ01000027	TERMINAL	1	
	ZJ5703	K4CZ01000027	TERMINAL	1	
			PHOTO COUPLERS		
⚠	PC5720	B3PBA0000579	PHOTO COUPLER	1	
⚠	PC5760	B3PBA0000579	PHOTO COUPLER	1	
			FUSE		
⚠	F1	K5G312Y00007	FUSE	1	
			CABLE HOLDER		
	H1001	K1YF10000002	10P CABLE HOLDER	1	
			THERMISTORS		
	TH5702	D4CAA5R10001	THERMISTOR	1	
	TH5860	D4CC11040013	THERMISTOR	1	
			JACK		
⚠	P5701	K2AA2B000011	AC INLET	1	
			CHIP JUMPERS		
	K5723	D0GBR00J0004	0 1/10W	1	
	K5806	D0GBR00J0004	0 1/10W	1	
	L1005	D0GBR00J0004	0 1/10W	1	
	L1006	D0GBR00J0004	0 1/10W	1	
	W4	D0GBR00J0004	0 1/10W	1	
	W12	D0GBR00J0004	0 1/10W	1	
	W1001	D0GBR00J0004	0 1/10W	1	
	W1002	D0GBR00J0004	0 1/10W	1	
	W1003	D0GBR00J0004	0 1/10W	1	
	W1004	D0GBR00J0004	0 1/10W	1	
	W1005	D0GBR00J0004	0 1/10W	1	
	W1006	D0GBR00J0004	0 1/10W	1	
	W1007	D0GBR00J0004	0 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
			RESISTORS		
	R1007	D0GB103JA065	10K 1/10W	1	
	R1008	D0GB103JA065	10K 1/10W	1	
	R1009	D0GB472JA065	4.7K 1/10W	1	
	R1010	D0GBR00J0004	0 1/10W	1	
	R1011	D0GB822JA065	8.2K 1/10W	1	
	R1013	D0GB104JA065	100K 1/10W	1	
	R1014	D0GB823JA065	82K 1/10W	1	
	R1015	D0GB333JA065	33K 1/10W	1	
	R1016	D0GB154JA065	150K 1/10W	1	
	R1017	D0GBR00J0004	0 1/10W	1	
	R1020	D0GB102JA065	1K 1/10W	1	
	R1107	ERJ1TYJ220U	22 1W	1	
	R1108	D0GB562JA065	5.6K 1/10W	1	
	R1207	ERJ1TYJ220U	22 1W	1	
	R1208	D0GB562JA065	5.6K 1/10W	1	
	R2000	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	
	R4001	D0GB101JA065	100 1/10W	1	
	R4004	D0GB101JA065	100 1/10W	1	
	R5200	D0GF100JA048	10 1/4W	1	
	R5201	D0GF100JA048	10 1/4W	1	
	R5204	D0GBR00J0004	0 1/10W	1	
	R5205	D0GB562JA065	5.6K 1/10W	1	
	R5206	D0GB562JA065	5.6K 1/10W	1	
	R5207	D0GB562JA065	5.6K 1/10W	1	
	R5208	D0GB562JA065	5.6K 1/10W	1	
	R5210	D0GF100JA048	10 1/4W	1	
	R5211	D0GF100JA048	10 1/4W	1	
⚠	R5700	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	D0GD222JA017	2.2K 1/8W	1	
	R5722	D0GB562JA065	5.6K 1/10W	1	
	R5727	ERX2SZJR15P	0.15 2W	1	
	R5731	D0GBR00J0004	0 1/10W	1	
	R5732	D0GB471JA065	470 1/10W	1	
	R5733	D0GB273JA065	27K 1/10W	1	
	R5762	D0GB103JA065	10K 1/10W	1	
	R5763	D0GB103JA065	10K 1/10W	1	
	R5764	D0GB472JA065	4.7K 1/10W	1	
	R5766	D0GB333JA065	33K 1/10W	1	
	R5767	D0GB223JA065	22K 1/10W	1	
	R5768	D0GB273JA065	27K 1/10W	1	
	R5769	D0GB122JA065	1.2K 1/10W	1	
	R5770	D0GB103JA065	10K 1/10W	1	
	R5773	D0GB103JA065	10K 1/10W	1	
	R5774	D0GB103JA065	10K 1/10W	1	
	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	
	R5783	D0GBR00J0004	0 1/10W	1	
	R5786	D0GB472JA065	4.7K 1/10W	1	
	R5787	D0GB102JA065	1K 1/10W	1	
	R5801	D0GBR00J0004	0 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
	R5802	ERJ3RBD223V	22K 1/16W	1	
	R5804	ERJ3RED154V	150K 1/16W	1	
	R5805	D1BB1002A074	10K 1/10W	1	
	R5806	D0GB103JA065	10K 1/10W	1	
	R5808	D0GB472JA065	4.7K 1/10W	1	
	R5810	D0GB221JA007	220 1/10W	1	
	R5811	D0GD152JA017	1.5K 1/8W	1	
	R5814	D0GB102JA065	1K 1/10W	1	
	R5817	D0GB151JA065	150 1/10W	1	
	R5823	D0GF121JA017	120 1/4W	1	
	R5824	D0GF121JA017	120 1/4W	1	
	R5833	D0GB101JA065	100 1/10W	1	
	R5855	D1BB1002A074	10K 1/10W	1	
	R5856	D1BB1002A074	10K 1/10W	1	
	R5857	D0GD103JA017	10K 1/8W	1	
	R5858	D0HB822ZA002	8.2K 1/16W	1	
	R5859	D0GD103JA017	10K 1/8W	1	
	R5863	D0GBR00J0004	0 1/10W	1	
	R5867	D0GB102JA065	1K 1/10W	1	
	R5870	D0GBR00J0004	0 1/10W	1	
			CAPACITORS		
	C1002	F1H1H104B047	0.1uF 50V	1	
	C1004	F2A1V4710074	470uF 35V	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	F2A1V4710074	470uF 35V	1	
	C1014	F2A0J101A245	100uF 6.3V	1	
	C1015	D0GBR00J0004	0 1/10W	1	
	C1016	D0GBR00J0004	0 1/10W	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	F1H1H104B047	0.1uF 50V	1	
	C2011	F1H1H104B047	0.1uF 50V	1	
	C2015	F1H1H104B047	0.1uF 50V	1	
	C3105	F1H1H683A783	0.068uF 50V	1	
	C3106	F1H1H101B052	100pF 50V	1	
	C5200	F1H1H104B047	0.1uF 50V	1	
	C5201	F1H1H153B047	0.015uF 50V	1	
	C5202	F1H1C224A178	0.22uF 16V	1	
	C5203	F1J2A221A030	220pF 100V	1	
	C5204	F1H1H153B047	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	
	C5210	F1K2A1040007	0.1uF 100V	1	
	C5211	F1J2A221A030	220pF 100V	1	
	C5212	F1H1H221B052	220pF 50V	1	
	C5213	F1H1H104B047	0.1uF 50V	1	
	C5214	F1H1H104B047	0.1uF 50V	1	
	C5215	F1K2A1040007	0.1uF 100V	1	
	C5216	F1H1H331B047	330pF 50V	1	
	C5218	F1J2A221A030	220pF 100V	1	
	C5219	F1K2A1040007	0.1uF 100V	1	
	C5220	F1H1H104B047	0.1uF 50V	1	
	C5221	F1H1H102B047	1000pF 50V	1	
	C5222	F1H1A474A107	0.47uF 10V	1	
	C5223	F1H1A474A107	0.47uF 10V	1	
	C5224	F1H1H331B047	330pF 50V	1	
	C5231	F1H1H102B047	1000pF 50V	1	
	C5232	F1H1A474A107	0.47uF 10V	1	
	C5233	F1H1A474A107	0.47uF 10V	1	
	C5234	F1H1H102B047	1000pF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
	C5240	F2A1J470A050	47uF 63V	1	
	C5522	F1H1H104B047	0.1uF 50V	1	
	C5523	F1H1H104B047	0.1uF 50V	1	
	C5602	F2A1H1R0A013	1.0uF 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	F1H1H103B047	0.01uF 50V	1	
	C5616	F1H1H223B047	0.022uF 50V	1	
	C5617	F1H1H104B047	0.1uF 50V	1	
	C5619	F1H1H104A013	0.1uF 50V	1	
	C5620	F1J1A106A043	10uF 10V	1	
	C5621	F2A1A220A649	22uF 10V	1	
	C5622	F2A1A220A649	22uF 10V	1	
	C5627	F1H1E334A068	0.33uF 25V	1	
	C5629	F2A1A220A649	22uF 10V	1	
△	C5700	F1BAF1020020	1000pF	1	
△	C5701	F0CAF104A105	0.1uF	1	
△	C5702	F0CAF104A105	0.1uF	1	
△	C5703	F0CAF104A105	0.1uF	1	
△	C5704	F1BAF471A013	470pF	1	
△	C5705	F1BAF471A013	470pF	1	
	C5712	F2A2G820A354	82uF 400V	1	
	C5713	F0C2J1030007	0.01uF 630V	1	
	C5720	F1H1H101B052	100pF 50V	1	
	C5722	F1H1H102B047	1000pF 50V	1	
	C5724	F1H1H221B052	220pF 50V	1	
	C5726	F2A1H100A214	10uF 50V	1	
	C5727	F2A1H101A147	100uF 50V	1	
	C5730	F1J1E4750002	4.7uF 25V	1	
	C5747	F1B3D561A132	560pF 2000V	1	
	C5760	F1H1H104B047	0.1uF 50V	1	
	C5761	F1H1H104B047	0.1uF 50V	1	
	C5762	F1H1H104B047	0.1uF 50V	1	
	C5800	F1J2E1030004	0.01uF 250V	1	
	C5801	F2A1V4710074	470uF 35V	1	
	C5802	F2A1V4710074	470uF 35V	1	
	C5805	F2A1V4710074	470uF 35V	1	
	C5808	F2A1V4710074	470uF 35V	1	
	C5814	F2A1A3320054	3300uF 10V	1	
	C5817	F1H1H682B047	6800pF 50V	1	
	C5818	F1H1H104B047	0.1uF 50V	1	
	C5819	F1H1H560B052	56pF 50V	1	
	C5820	F1H1H560B052	56pF 50V	1	
	C5862	F1H1H104B047	0.1uF 50V	1	
	C5863	F1H0J1060006	10uF 6.3V	1	

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