

HOME THEATER SYSTEM Signa S4



- For purposes of improvement, specifications and design are subject to change without notice.
- Please use this service manual when referring to the operating instructions without fail.
- Some illustrations used in this service manual are slightly different from the actual product.

[Click here!](#)

On-line service parts list

<https://dmedia.soundunited.com/documents/details/28925>

[ONLINE PARTS LIST \(P5\)](#)

WEB owner's manual

NA: <http://manuals.polkaudio.com/SignaS4/NA/EN/index.php>

EU: <http://manuals.polkaudio.com/SignaS4/EU/EN/index.php>

AP: <http://manuals.polkaudio.com/SignaS4/AP/ZH/index.php>

JP: <http://manuals.polkaudio.com/SignaS4/JP/JA/index.php>

Upload is planned for the time of a future press release.

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Confidential

BEFORE SERVICING THIS UNIT

SAFETY PRECAUTIONS

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NOTE FOR PARTS LIST

SERIAL NUMBER

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POST-SERVICE PRECAUTIONS

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SAFETY PRECAUTIONS

The following items should be checked for continued protection of the customer and the service technician.

Leakage current check

Before returning the set to the customer, be sure to carry out either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the set is defective.

Be sure to test for leakage current with the AC plug in both polarities, in addition, when the set's power is in each state (on, off and standby mode), if applicable.

CAUTION

Please heed the following cautions and instructions during servicing and inspection.

Ⓞ Heed the cautions!

Cautions which are delicate in particular for servicing are labeled on the cabinets, the parts and the chassis, etc. Be sure to heed these cautions and the cautions described in the handling instructions.

Ⓞ Cautions concerning electric shock!

- (1) An AC voltage is impressed on this set, so if you touch internal metal parts when the set is energized, you may get an electric shock. Avoid getting an electric shock, by using an isolating transformer and wearing gloves when servicing while the set is energized, or by unplugging the power cord when replacing parts, for example.
- (2) There are high voltage parts inside. Handle with extra care when the set is energized.

Ⓞ Caution concerning disassembly and assembly!

Through great care is taken when parts were manufactured from sheet metal, there may be burrs on the edges of parts. The burrs could cause injury if fingers are moved across them in some rare cases. Wear gloves to protect your hands.

Ⓞ Use only designated parts!

The set's parts have specific safety properties (fire resistance, voltage resistance, etc.). Be sure to use parts which have the same properties for replacement. The burrs have the same properties. In particular, for the important safety parts that are indicated by the \triangle mark on schematic diagrams and parts lists, be sure to use the designated parts.

Ⓞ Be sure to mount parts and arrange the wires as they were originally placed!

For safety reasons, some parts use tapes, tubes or other insulating materials, and some parts are mounted away from the surface of printed circuit boards. Care should also be taken with the positions of the wires by arranging them and using clamps to keep them away from heating and high voltage parts, so be sure to set everything back as it was originally placed.

Ⓞ Make a safety check after servicing!

Check that all screws, parts and wires removed or disconnected when servicing have been put back in their original positions, check that no serviced parts have deteriorated the area around. Then make an insulation, check on the external metal connectors and between the blades of the power plug. And otherwise check that safety is ensured.

(Insulation check procedure)

Unplug the power cord from the power outlet, disconnect the antenna, plugs, etc., and on the power. Using a 500V insulation resistance tester, check that the insulation resistance value between the inplug and the externally exposed metal parts (antenna terminal, headphones terminal, input terminal, etc.) is 1M Ω or greater. If it is less, the set must be inspected and repaired.

CAUTION

Concerning important safety parts

Many of the electric and the structural parts used in the set have special safety properties. In most cases these properties are difficult to distinguish by sight, and the use of replacement parts with higher ratings (rated power and withstand voltage) does not necessarily guarantee that safety performance will be preserved. Parts with safety properties are indicated as shown below on the wiring diagrams and the parts list in this service manual. Be sure to replace them with the parts which have the designated part number.

- (1) Schematic diagrams Indicated by the \triangle mark.
- (2) Parts lists Indicated by the \triangle mark.

The use of parts other than the designated parts could cause electric shocks, fires or other dangerous situations.

NOTE FOR SCHEMATIC DIAGRAM

WARNING:

Parts indicated by the \triangle mark have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

Before returning the set to the customer, be sure to carry out either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the set is defective.

WARNING:

DO NOT return the set to the customer unless the problem is identified and remedied.

NOTICE:

- (1) ALL RESISTANCE VALUES IN OHM. $k=1,000$ OHM / $M=1,000,000$ OHM
- (2) ALL CAPACITANCE VALUES ARE EXPRESSED IN MICRO FARAD, UNLESS OTHERWISE INDICATED. P INDICATES MICRO-MICRO FARAD. N INDICATES NANO FARAD.
- (3) EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
- (4) CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

HANDLING THE SEMICONDUCTOR AND OPTICS

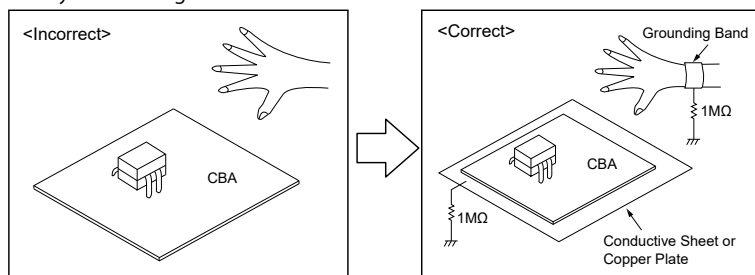
Electrostatic breakdown of the semi-conductors or optical pickup may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

1. Ground for Human Body

Be sure to wear a grounding band (1 M ohm) that is properly grounded to remove any static electricity that may be charged on the body.

2. Ground for Workbench

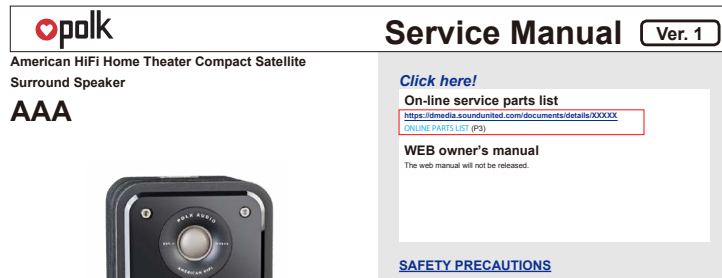
Be sure to place a conductive sheet or copper plate with proper grounding (1 M ohm) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing



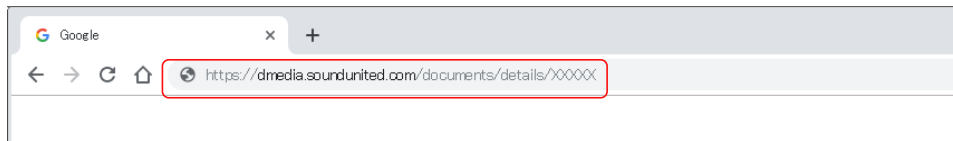
ONLINE PARTS LIST

Accessing the Parts List

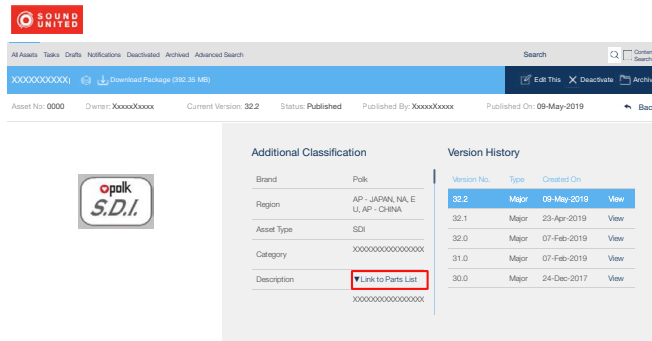
- (1) Access from the Service Manual
 - Click the URL link on the cover of the service manual.
Examples of display



NOTE: If the web browser does not open automatically, copy the URL and paste it into the address bar of the web browser and then press Enter.



- (2) Accessing the Part List from the Model Asset Screen.
 - Display Model Asset from New SDI.
 - Click the section displayed as ▼ Link to Part Lists under the model name.

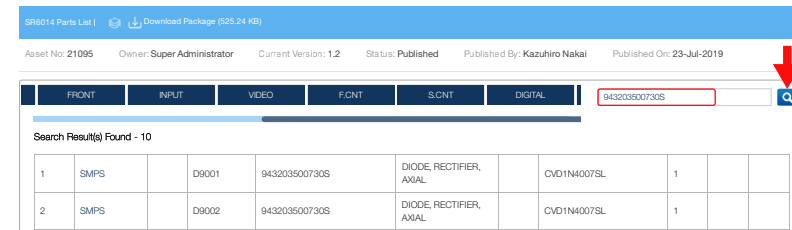


NOTE: If the ▼ Link to Parts List section is not displayed, download the parts table from the Asset list.

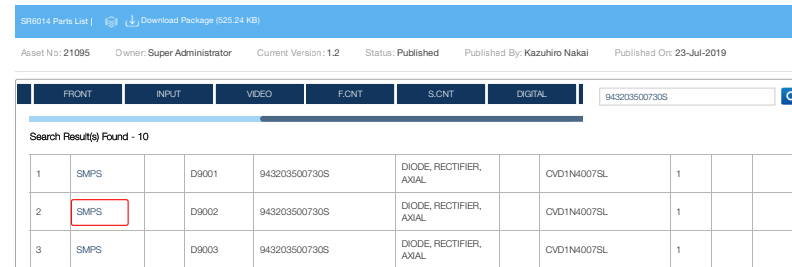
Searching Part Numbers or Ref. Numbers

You can search a Parts List for part numbers or Ref. numbers.

- (1) Enter the part number or Ref. number in the search window of the Parts List, and press the search button.
- (2) The search results are displayed.
The name of the sheet in which the search part is used and the part's line are displayed.



- (3) Next, click the "Sheet" section of the search results.



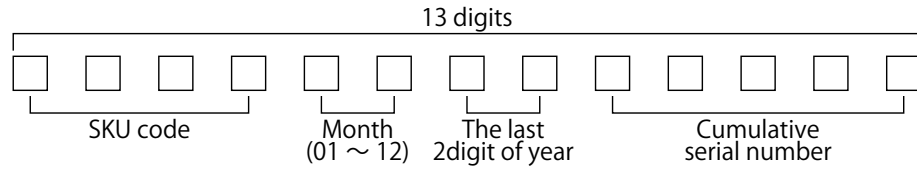
NOTE FOR PARTS LIST

1. Parts indicated by "nsp" on this table cannot be supplied.
 2. When ordering a part, make a clear distinction between "1" and "l" (i) to avoid mis-supplying.
 3. A part ordered without specifying its part number can not be supplied.
 4. Part indicated by "@" mark is not illustrated in the exploded and packaging view.
- WARNING:** Parts indicated by the ⚠ mark have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

SERIAL NUMBER

Serial Number Organization

The 13-digit serial number that contains the code of the manufacturing date.



SKU Code of this Unit

SKU Code	NAV Number	Product Name	Description
PBNN	300443-01-00-101	Signa S4	Pwrđ NA-120V
PBNR	300443-01-00-201	Signa S4	EU-Lmtd 220-240V
PBNS	300443-01-00-206	Signa S4	China Only
PBNP	300443-01-00-102	Signa S4	Pwrđ JP-100V
PBNQ	300443-01-00-107	Signa S4	Demo Config-120V

Initializing this Unit

1. Actions

The default settings can be restored at any time by clearing all the user data and configuration information in the product to return it to the factory defaults. The firmware is not downgraded.

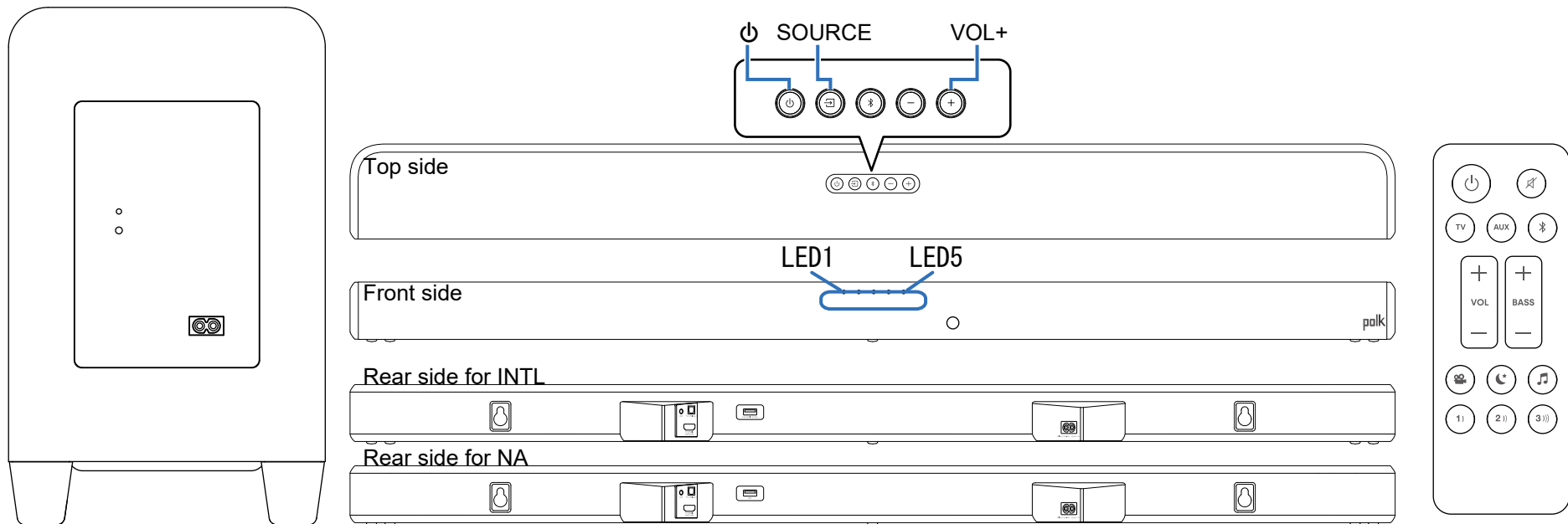
2. Starting up

(1) While the power is On, hold down buttons "Vol+", "Source" and "Power" for at least 5 seconds.

(2) All LEDs light up three times after initialization.

	LED1	LED2	LED3	LED4	LED5
Step 1	Red	Red	Red	Red	non
Step 2	Red	Red	Red	Red	non
Step 3	Red	Red	Red	Red	non

(3) Wait six seconds before turning on the power again.



ELECTRICAL

SCHEMATIC DIAGRAMS

- SCH01 Bar MAIN SYS POWER
- SCH02 Bar MAIN MT8518S POWER
- SCH03 Bar MAIN MT8518S & ETH
- SCH04 Bar MAIN NAND & DDR3
- SCH05 Bar MAIN MCU
- SCH06 Bar MAIN OPT IIS OUT AUX
- SCH07 Bar MAIN Wire, USB, KEY, LED Connector
- SCH08 Bar MAIN AMP SN005805
- SCH09 Bar MAIN BLOCK
- SCH10 Bar KEY RGB & Driver
- SCH11 Bar KEY KEY & From MAIN
- SCH12 Bar KEY AT2853 BT MODULE
- SCH13 Bar HDMI EP9511
- SCH14 Bar POWER
- SCH15 SubWoofers Power Supply
- SCH16 SubWoofers AMP1
- SCH17 SubWoofers AMP2
- SCH18 SubWoofers POWER

PRINTED CIRCUIT BOARDS

- For Sound bar : MA, HDMI, KEY, PW
- For Subwoofer : AMP(SUB), POWER(SUB)

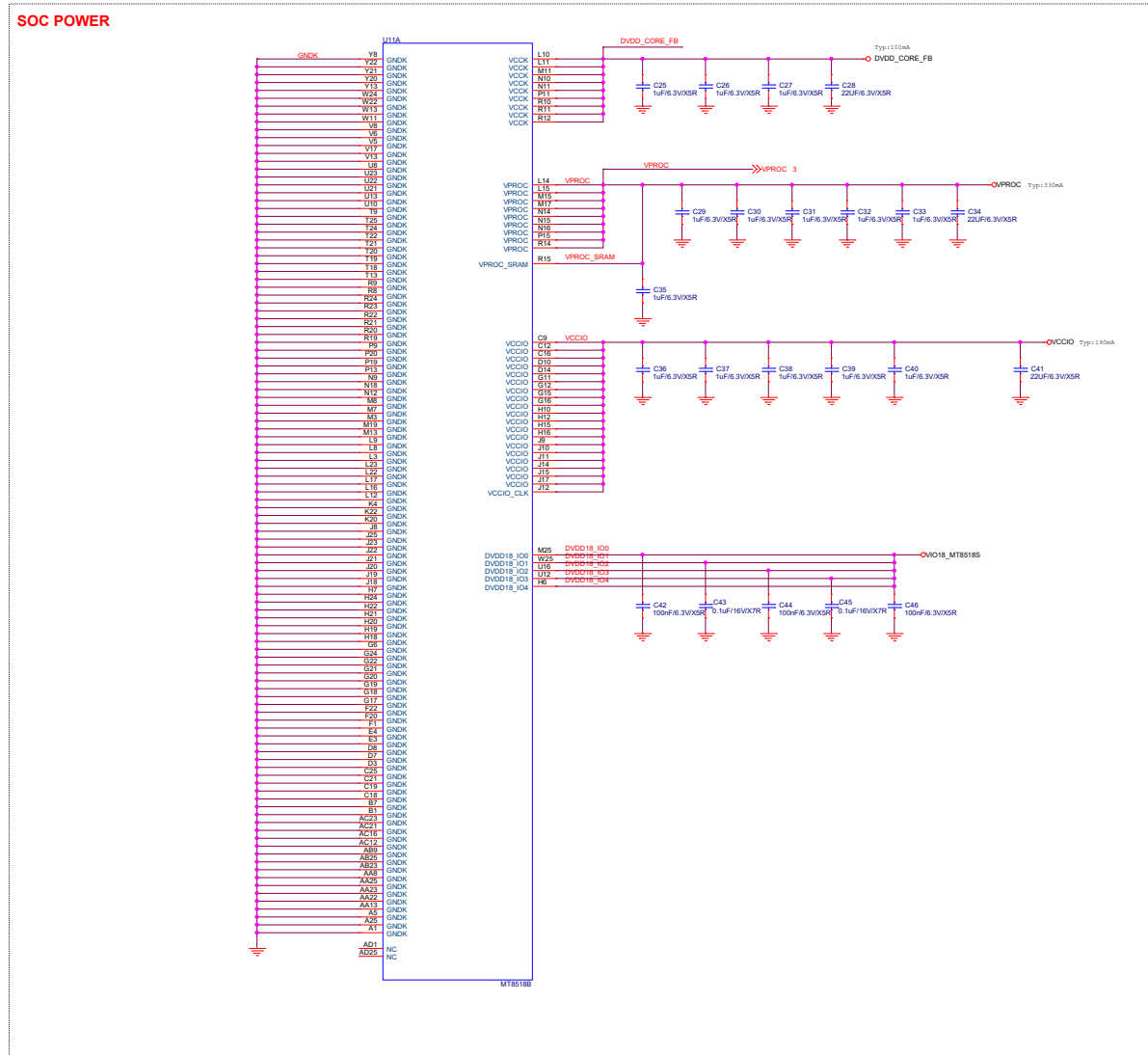
BLOCK DIAGRAM and POWER DIAGRAM for Sound bar

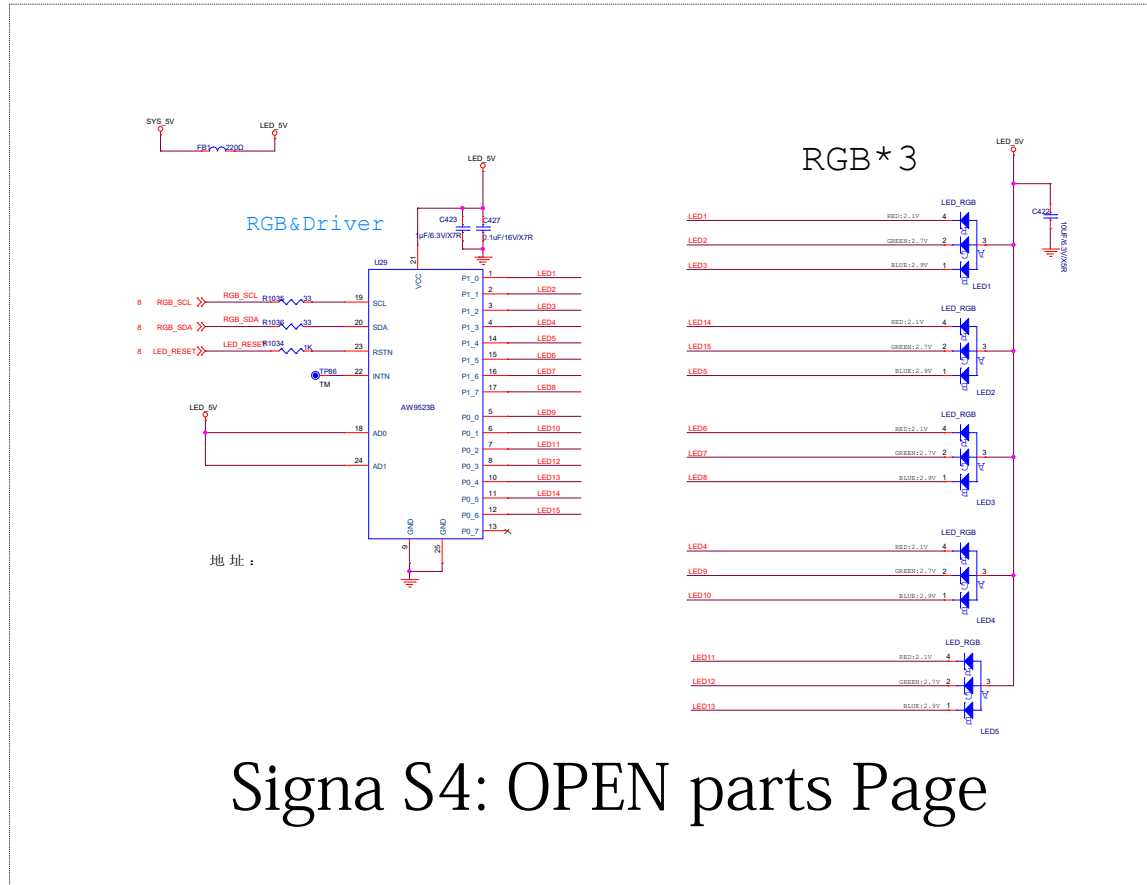
BLOCK DIAGRAM and POWER DIAGRAM for Subwoofer

WIRING DIAGRAM for Sound bar

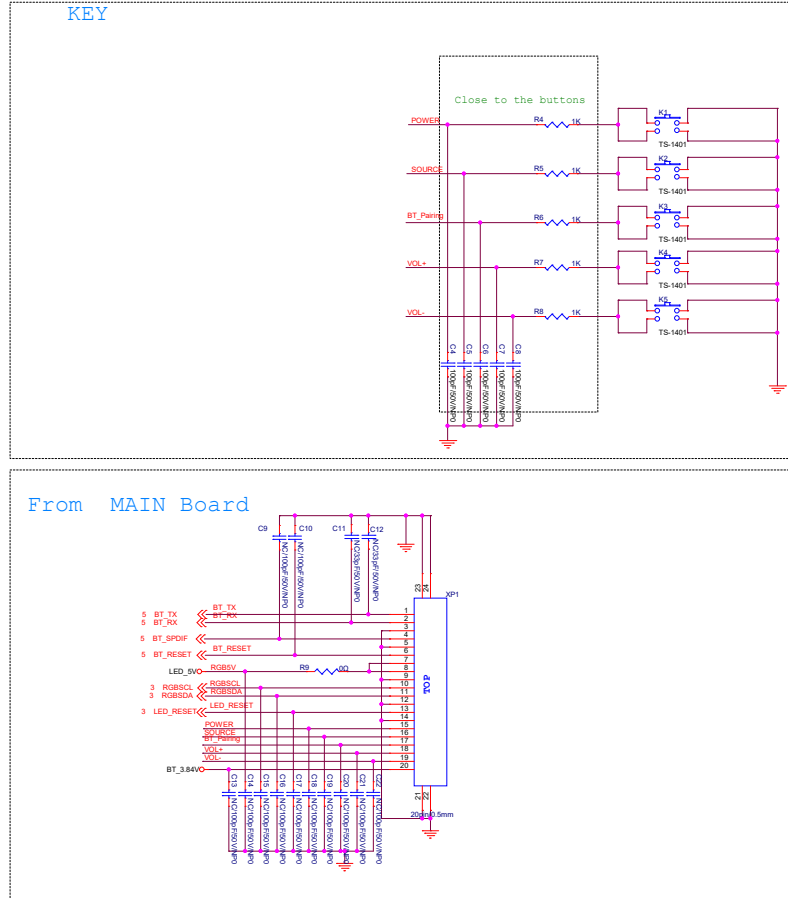
WIRING DIAGRAM for Subwoofer

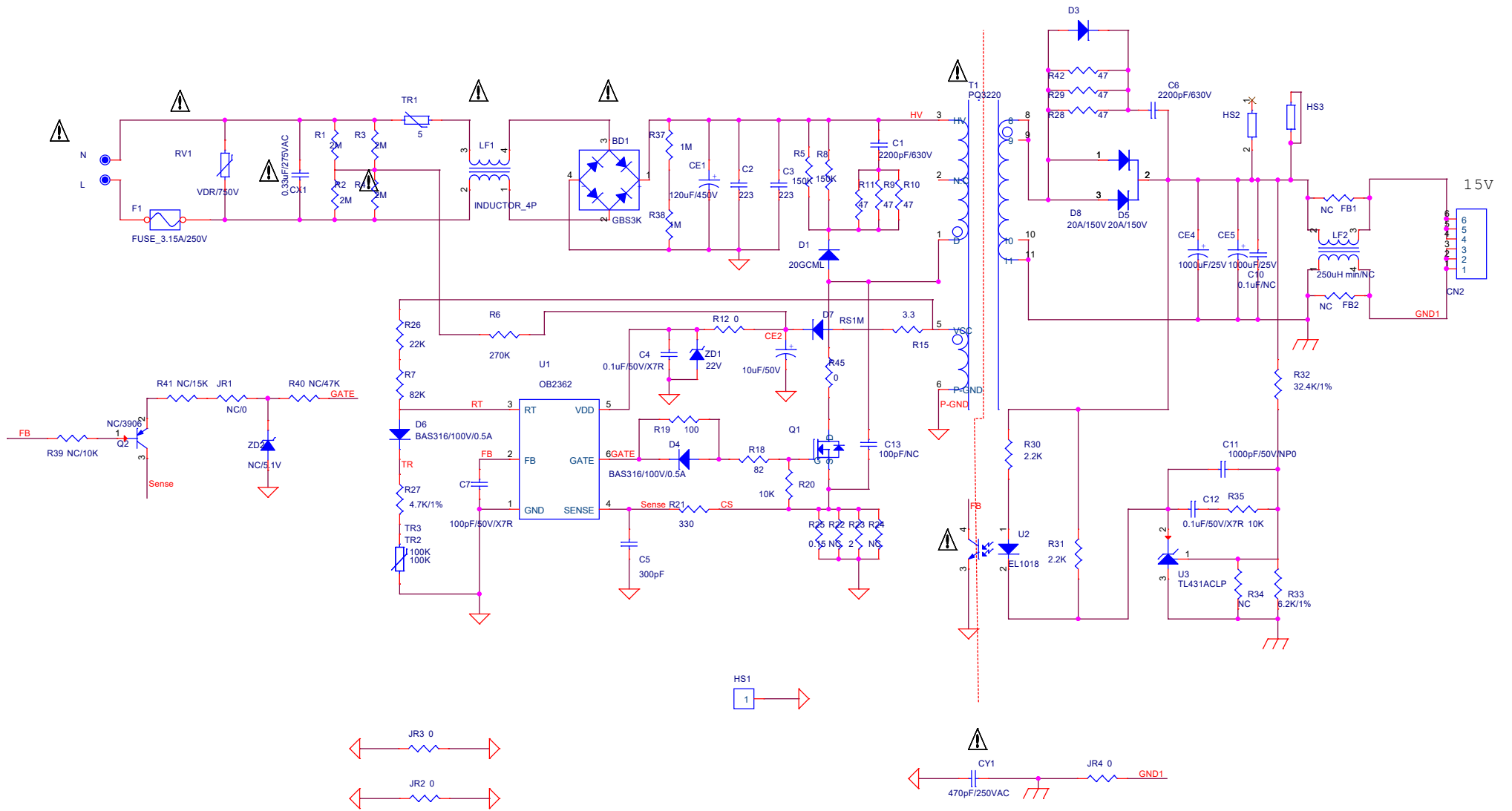
Remote Code Table

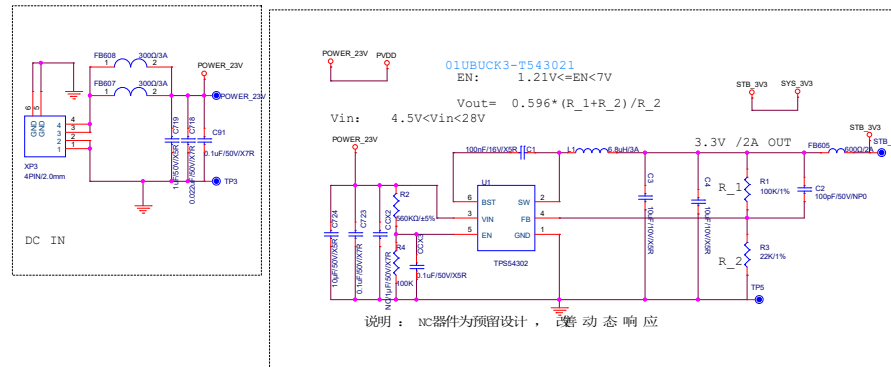


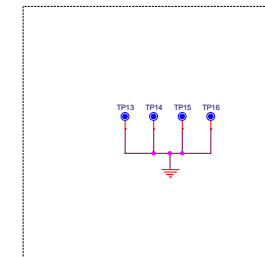
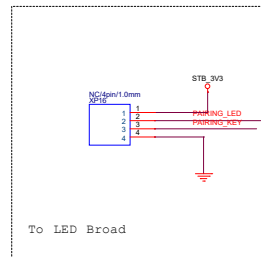
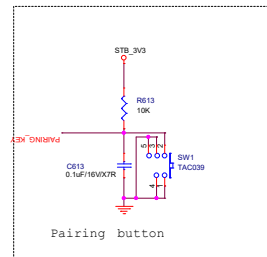
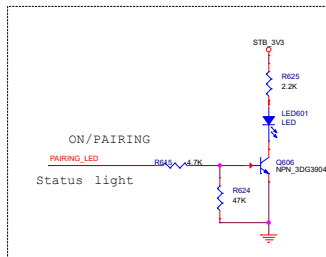
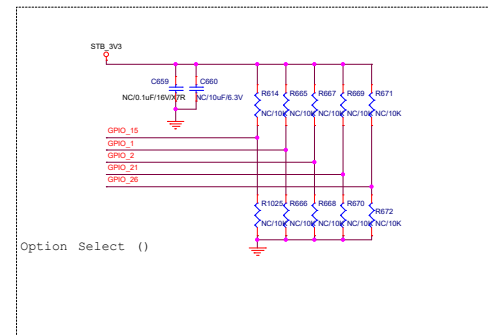
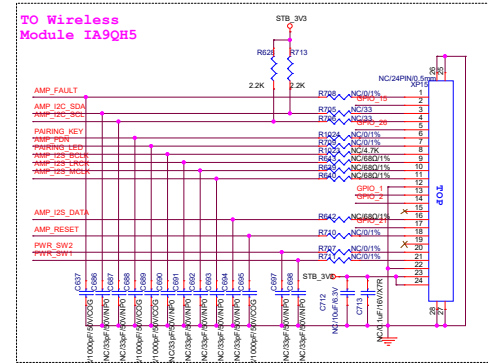
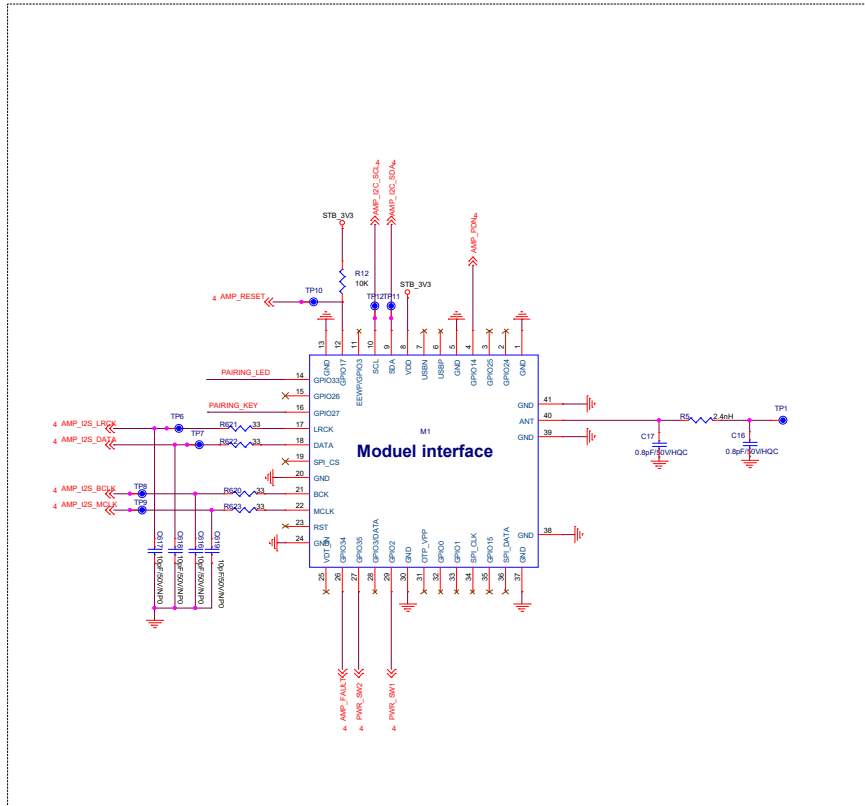


Signa S4: OPEN parts Page

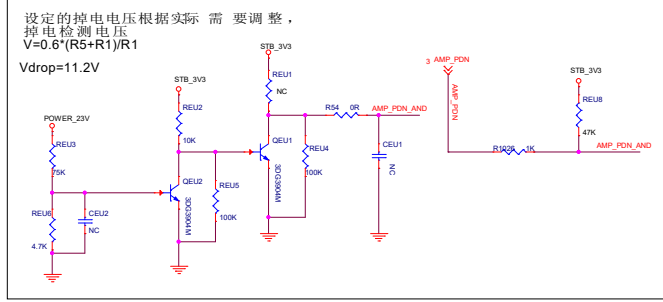
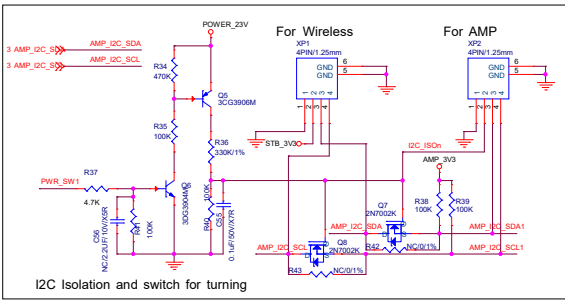
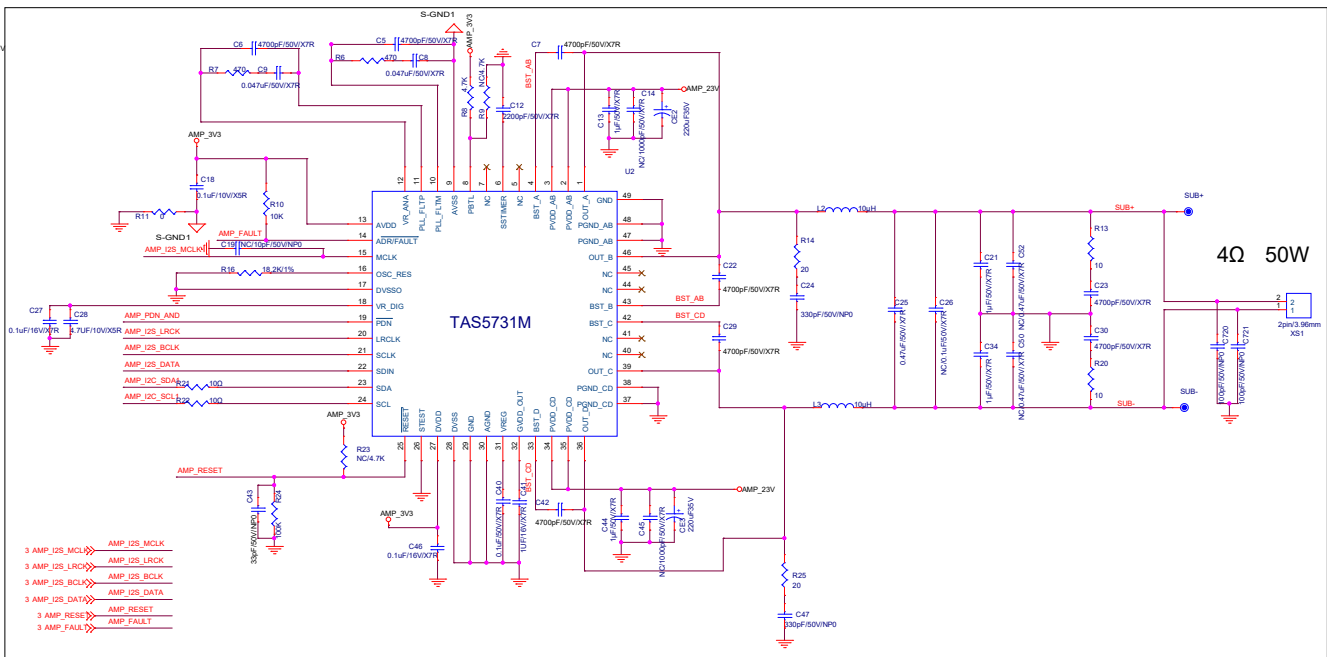
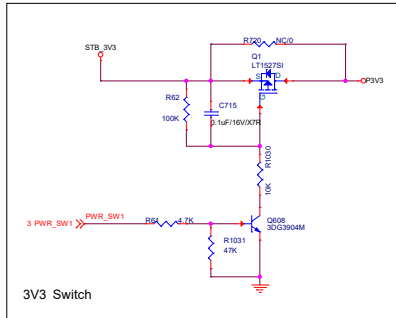
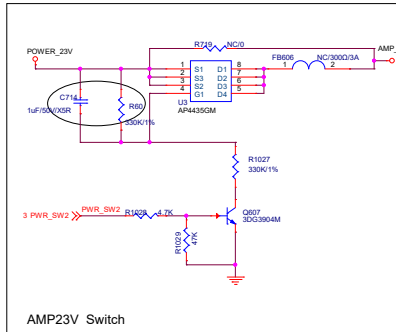
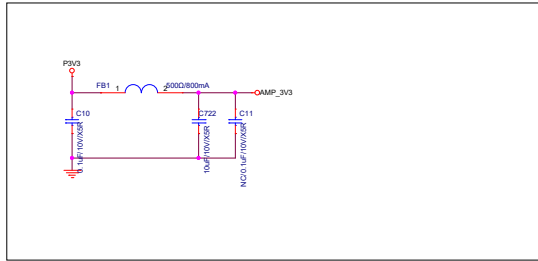








SCH17 SubWoofer AMP2



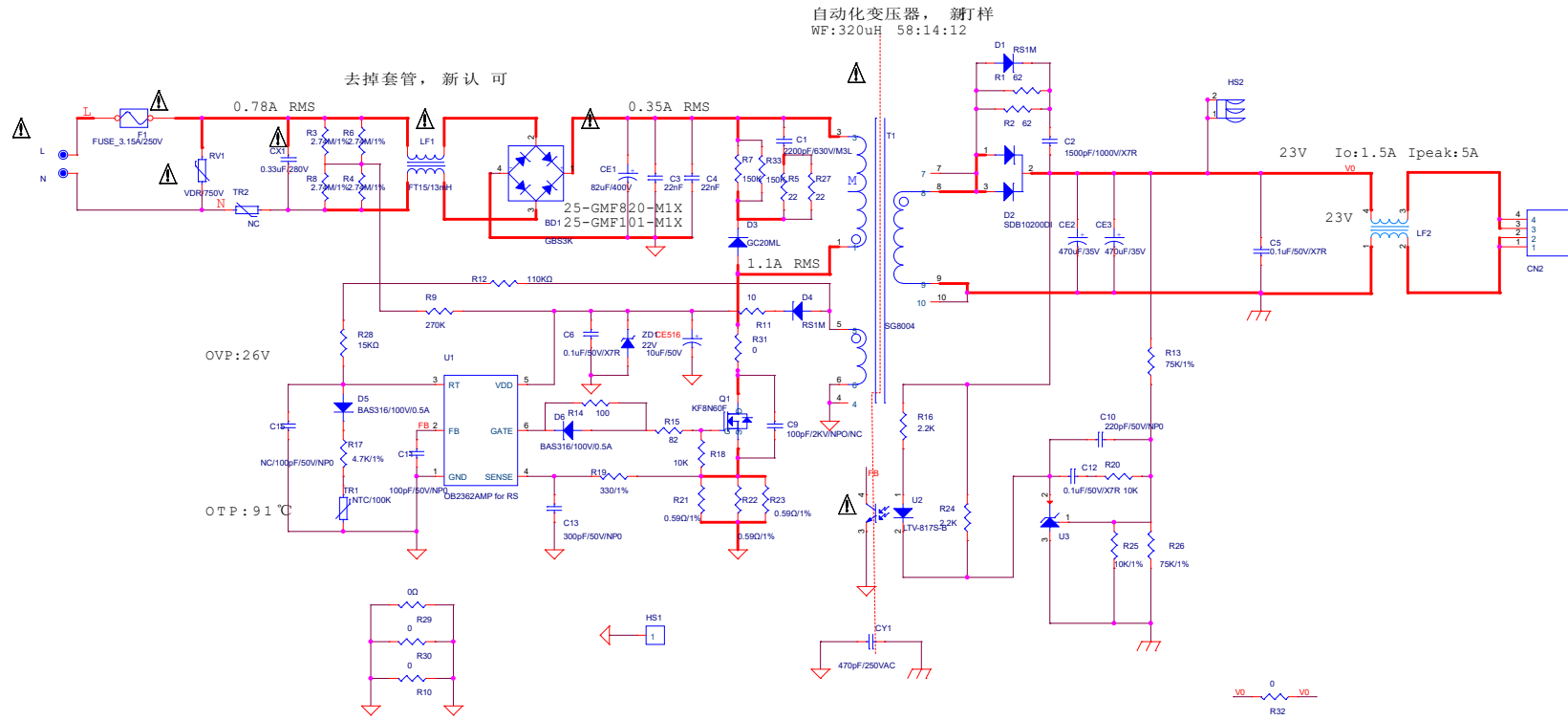
Before Servicing
This Unit

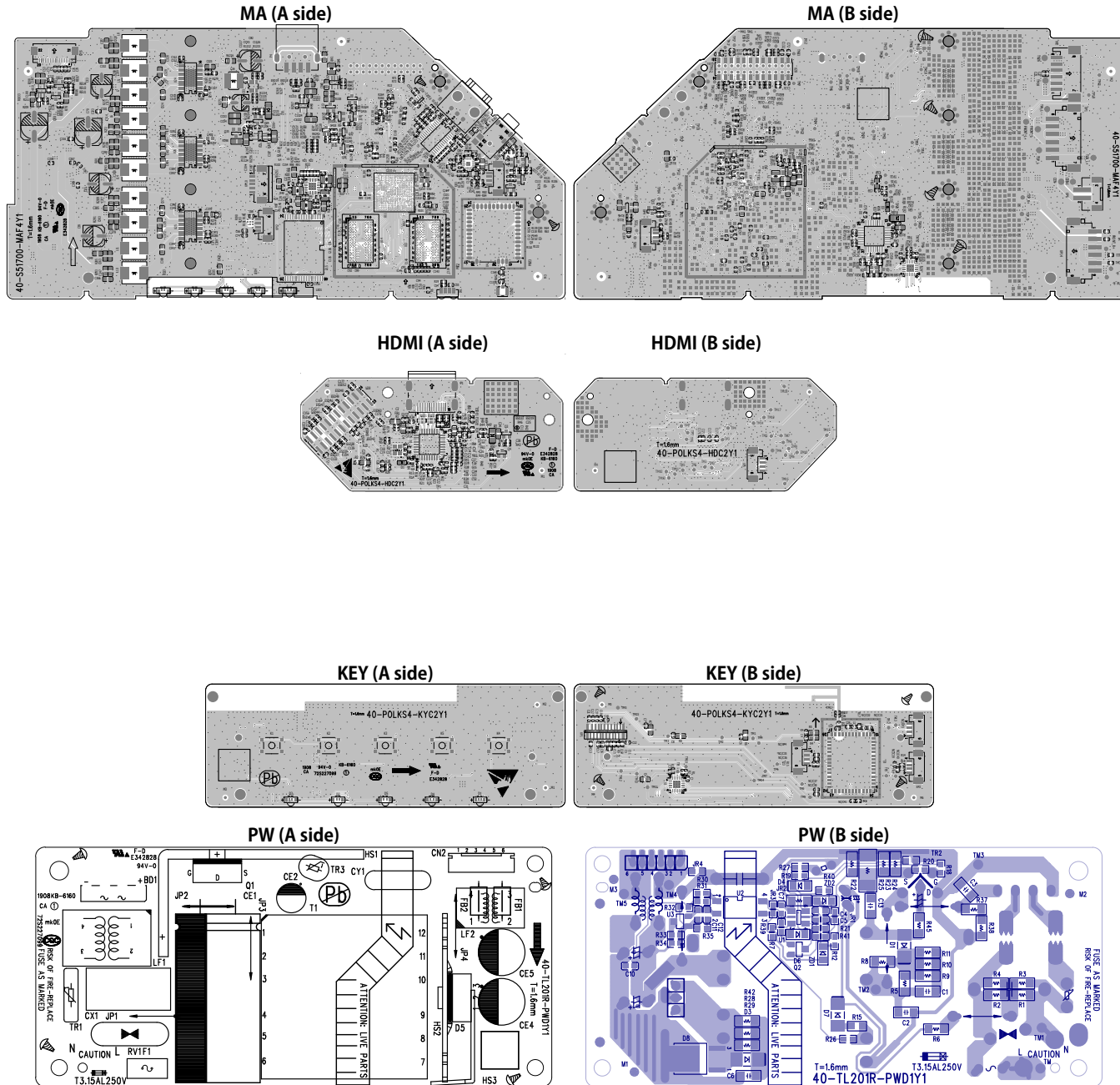
Electrical

Mechanical

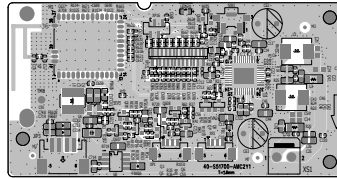
Repair Information

Updating

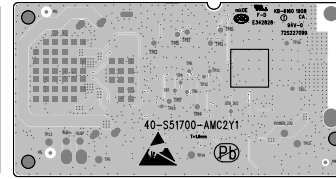




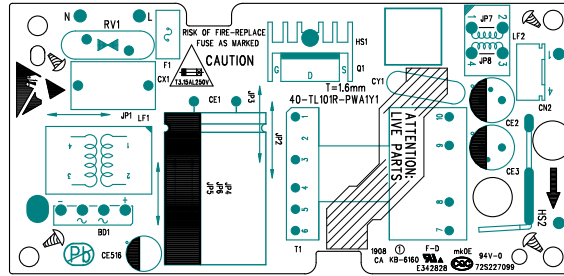
AMP(SUB) (A side)



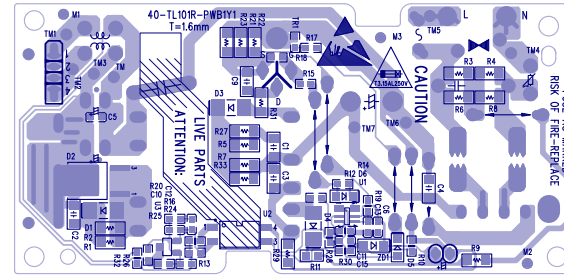
AMP(SUB) (B side)



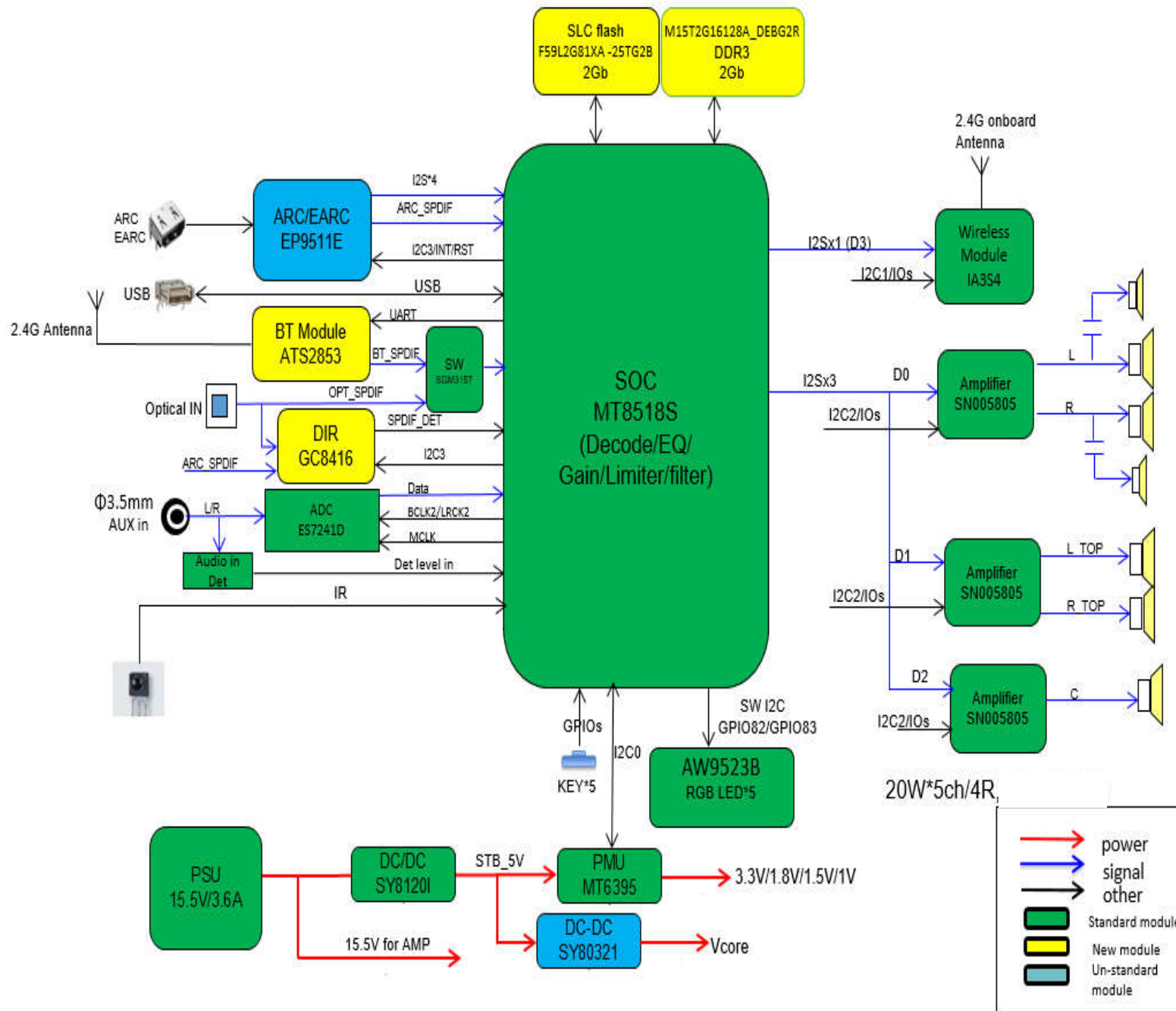
POWER(SUB) (A side)



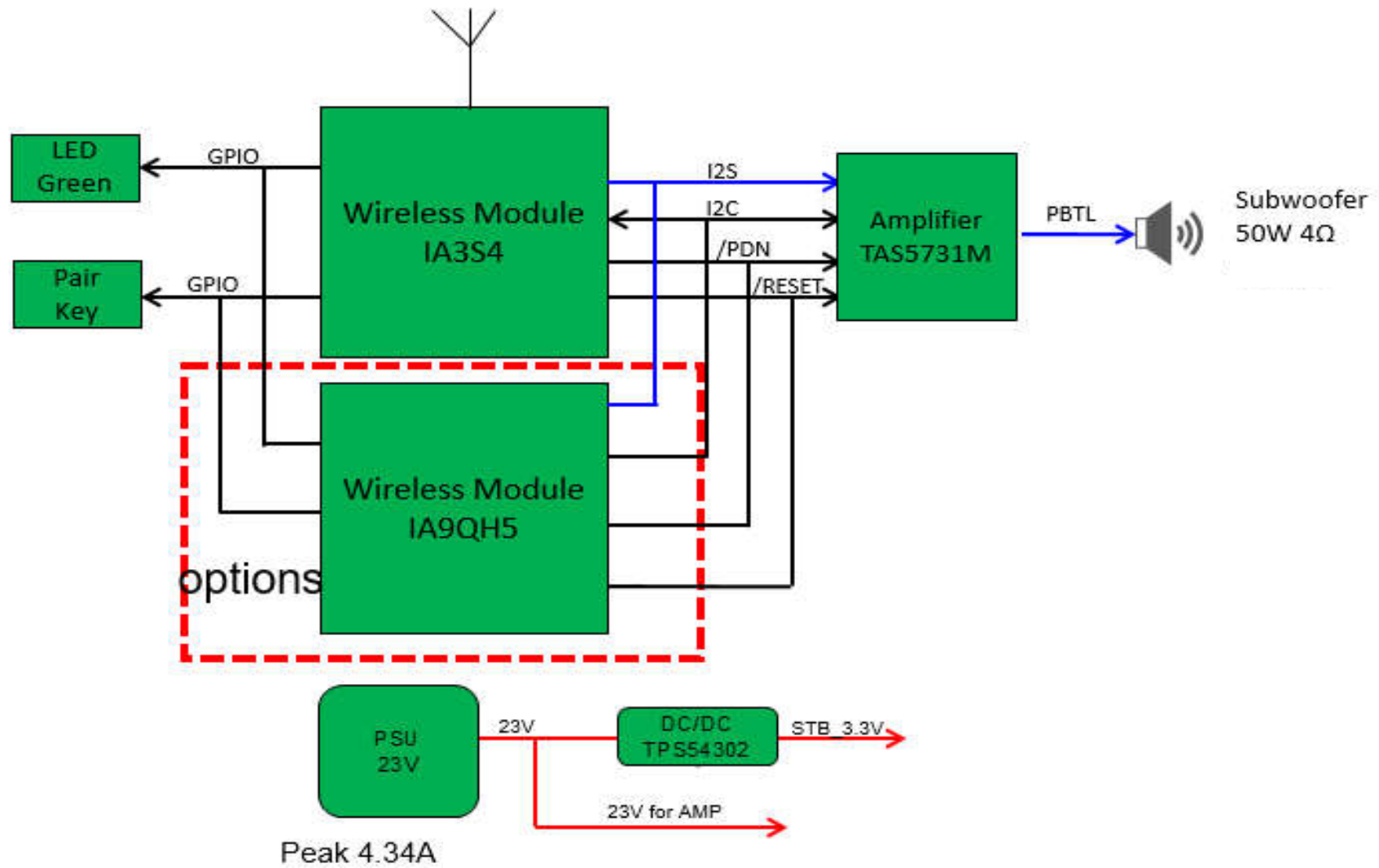
POWER(SUB) (B side)



BLOCK DIAGRAM and POWER DIAGRAM for Sound bar



BLOCK DIAGRAM and POWER DIAGRAM for Subwoofer



Before Servicing
This Unit

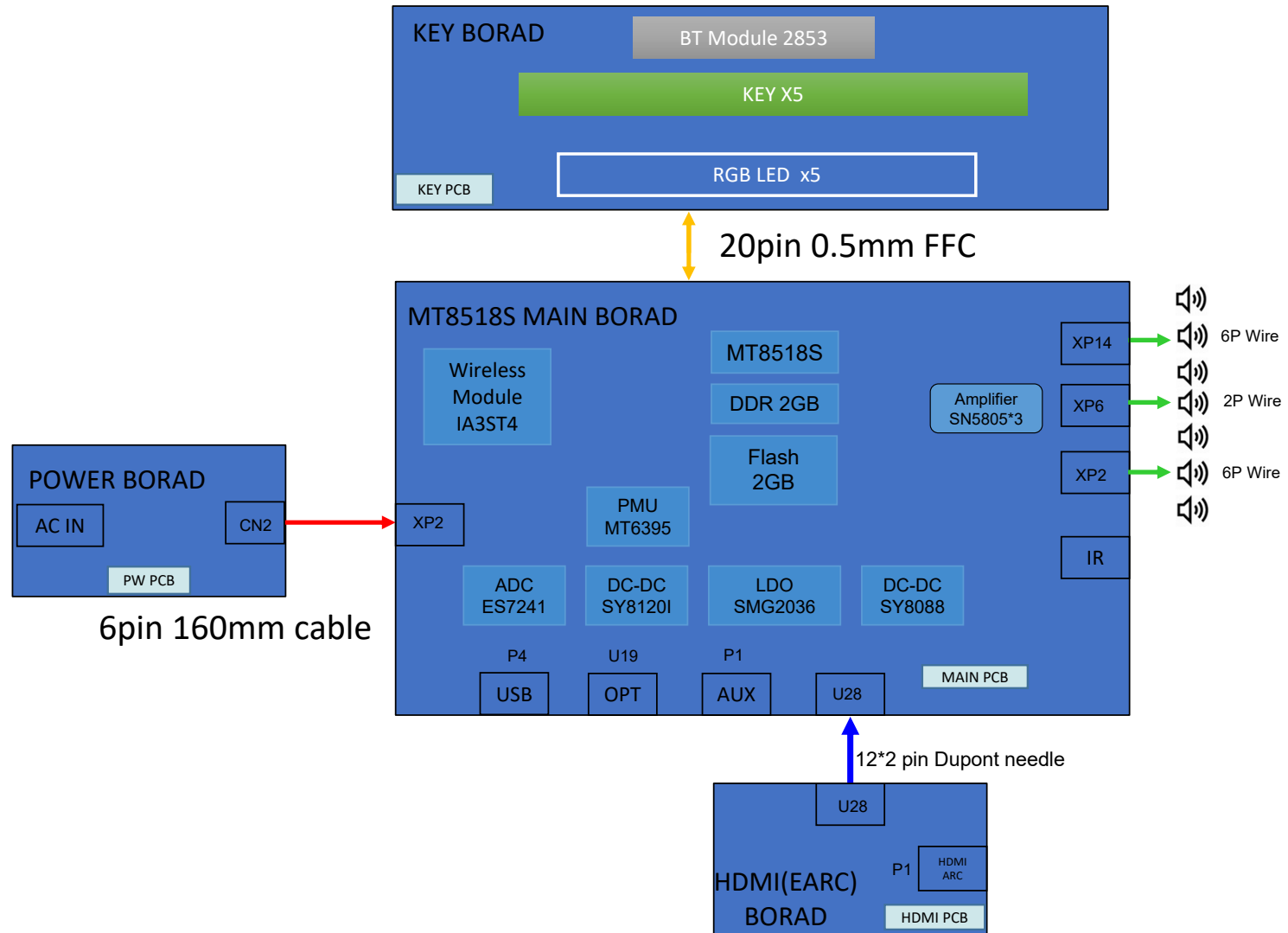
Electrical

Mechanical

Repair Information

Updating

WIRING DIAGRAM for SoundBar



Before Servicing
This Unit

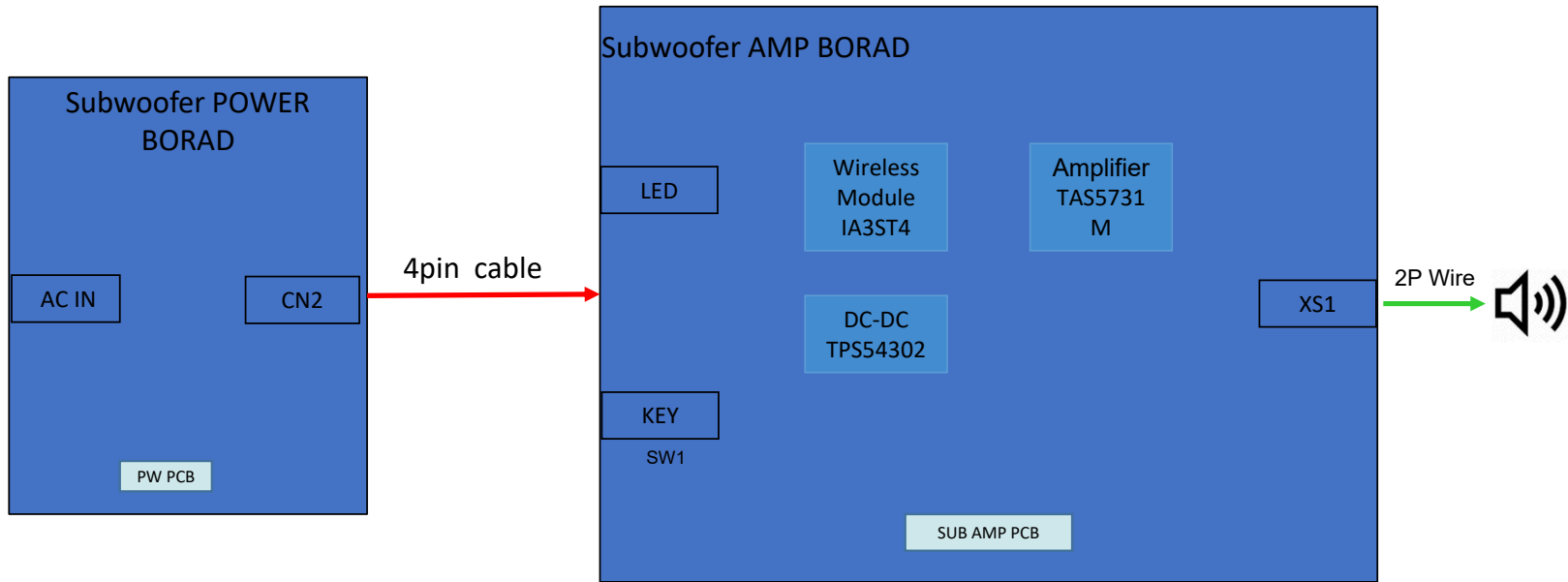
Electrical

Mechanical

Repair Information

Updating

WIRING DIAGRAM for Subwoofer



Before Servicing
This Unit

Electrical

Mechanical

Repair Information

Updating

Remote Code Table

IR Code Base	NEC		
IR Customer Code	C891		
IR Button Codes	Name	Button Code	Base model
	Power (toggle)	0x00	Y (same as S2/S3)
	Mute (toggle)	0x20	Y (same as S2/S3)
	TV (OPT/ARC)	0x0F	Y (same as S2/S3)
	Source (AUX)	0x0C	Y (same as S2/S3)
	BT	0x12	Y (same as S2/S3)
	Bass Up	0x5C	Y (same as S2/S3)
	Bass Down	0x5D	Y (same as S2/S3)
	Volume Up	0x1E	Y (same as S2/S3)
	Volume Down	0x1F	Y (same as S2/S3)
	Movie	0x77	Y (same as S2/S3)
	Night	0x79	Y (same as S2/S3)
	Music	0x78	Y (same as S2/S3)
	Voice ADJ 1	0x7E	Y (same as S2/S3)
	Voice ADJ 2	0x7F	Y (same as S2/S3)
Voice ADJ 3	0x80	Y (same as S2/S3)	



Before Servicing
This Unit

Electrical

Mechanical

Repair Information

Updating

DISASSEMBLY

Flowchart

1. Rear cover
2. PW PCB
3. MA PCB
4. KEY PCB
5. BACK PLATE ASSY

EXPLODED VIEW for Sound bar

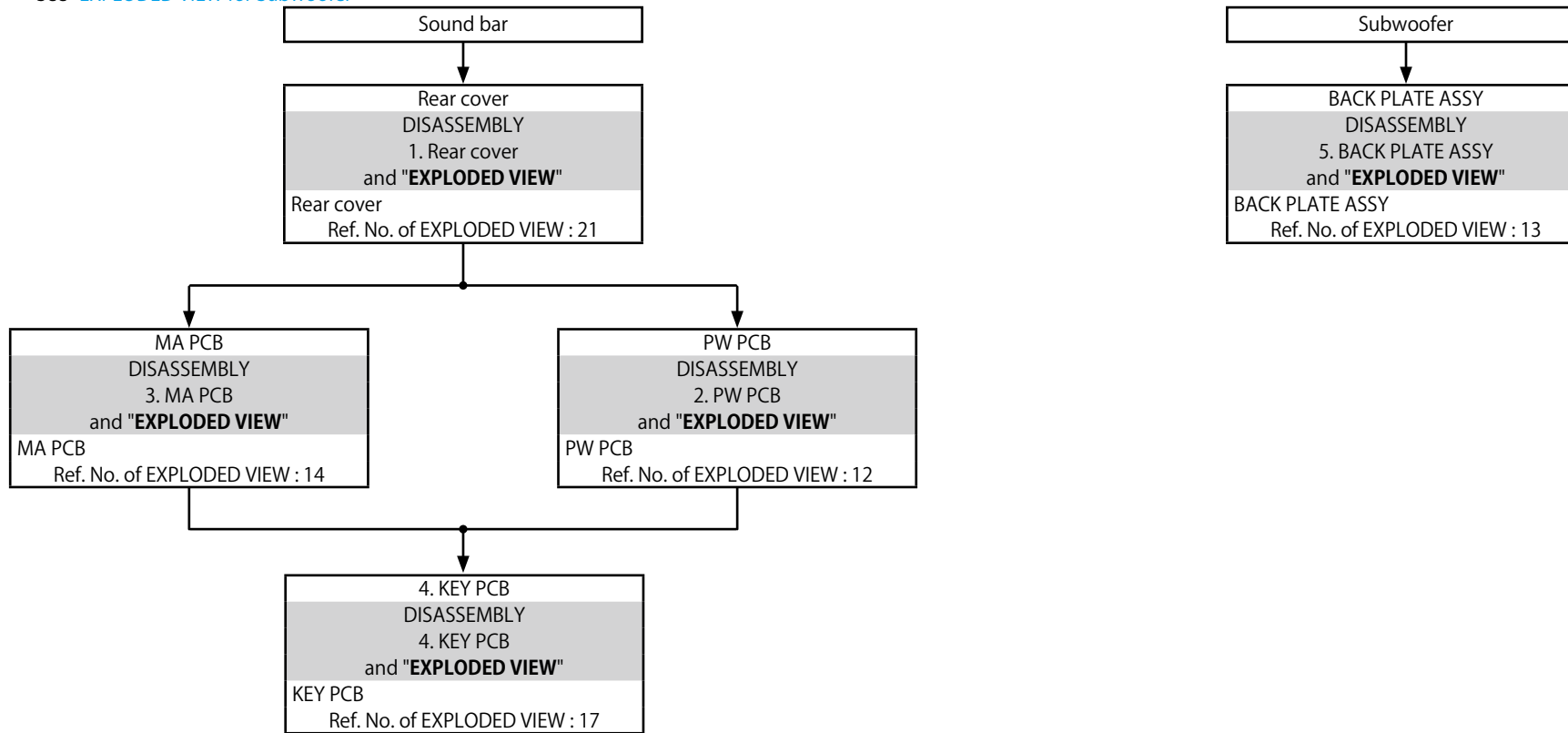
EXPLODED VIEW for Subwoofer

SEALING GASKET VIEW OF AN AIR LEAK PREVENTION

PACKAGING VIEW

Flowchart

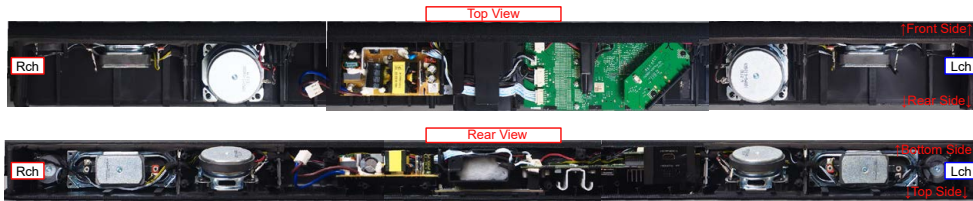
- Remove each part following the flow below.
- Reassemble the removed parts in the reverse order.
- Read "[SAFETY PRECAUTIONS](#)" before reassembling the removed parts.
- If wire bundles are removed or moved during adjustment or part replacement, reshape the wires after completing the work. Failure to shape the wires correctly may cause problems such as noise.
- See "[EXPLODED VIEW for Sound bar](#)"
- See "[EXPLODED VIEW for Subwoofer](#)"



Explanatory Photos for DISASSEMBLY

- For the shooting direction of each photos used in this manual, see the photo below.
- **A, B, C and D** in the photo below indicate the shooting directions of photos.
- The photographs with no shooting direction indicated were taken from the top of the unit.
- Photos of Signa S4 NA are used in this manual.

The viewpoint of each photograph for Sound bar
(Shooting direction : X)



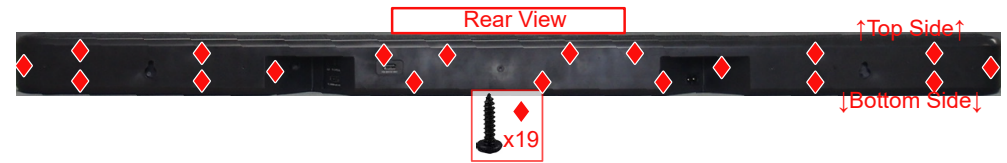
The viewpoint of each photograph for Subwoofer
(Shooting direction : X)



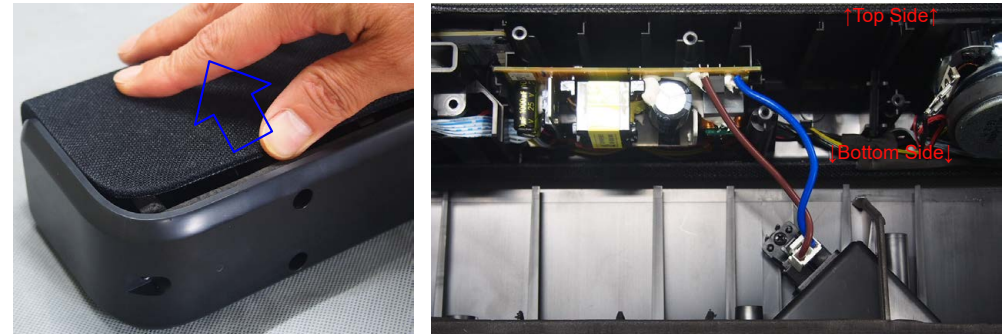
1. Rear cover

Proceeding : **Rear cover**

(1) Remove the screws.



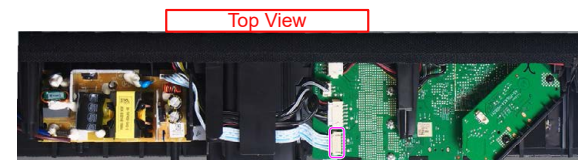
(2) Remove the Rear cover. Remove the connector.



2. PW PCB

Proceeding : **Rear cover** → **PW PCB**

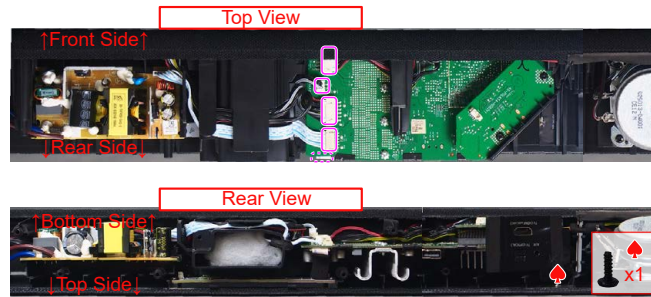
(1) Remove the connector.



3. MA PCB

Proceeding : **Rear cover** → **MA PCB**

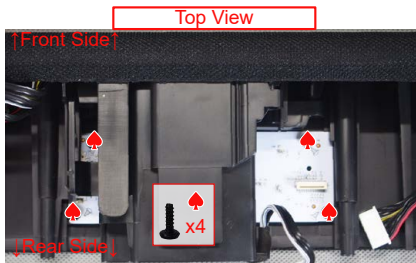
(1) Remove the screws. Remove the connector.



4. KEY PCB

Proceeding : **Rear cover** → **PW PCB** → **MA PCB** → **KEY PCB**

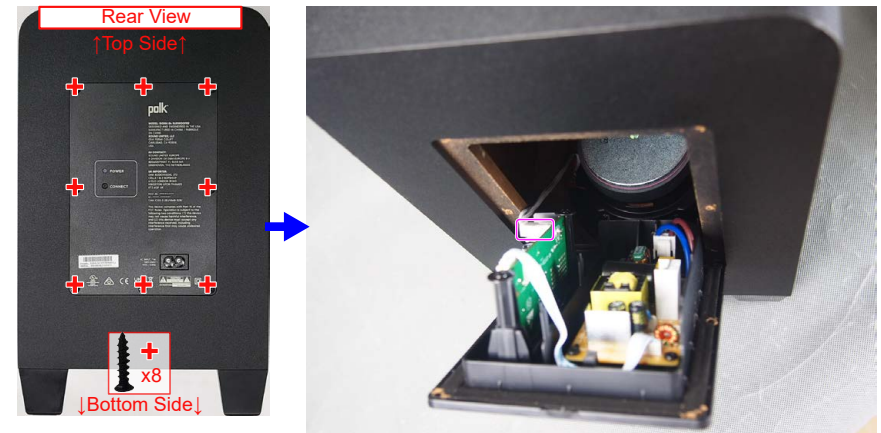
(1) Remove the screws. Remove the connector.



5. BACK PLATE ASSY

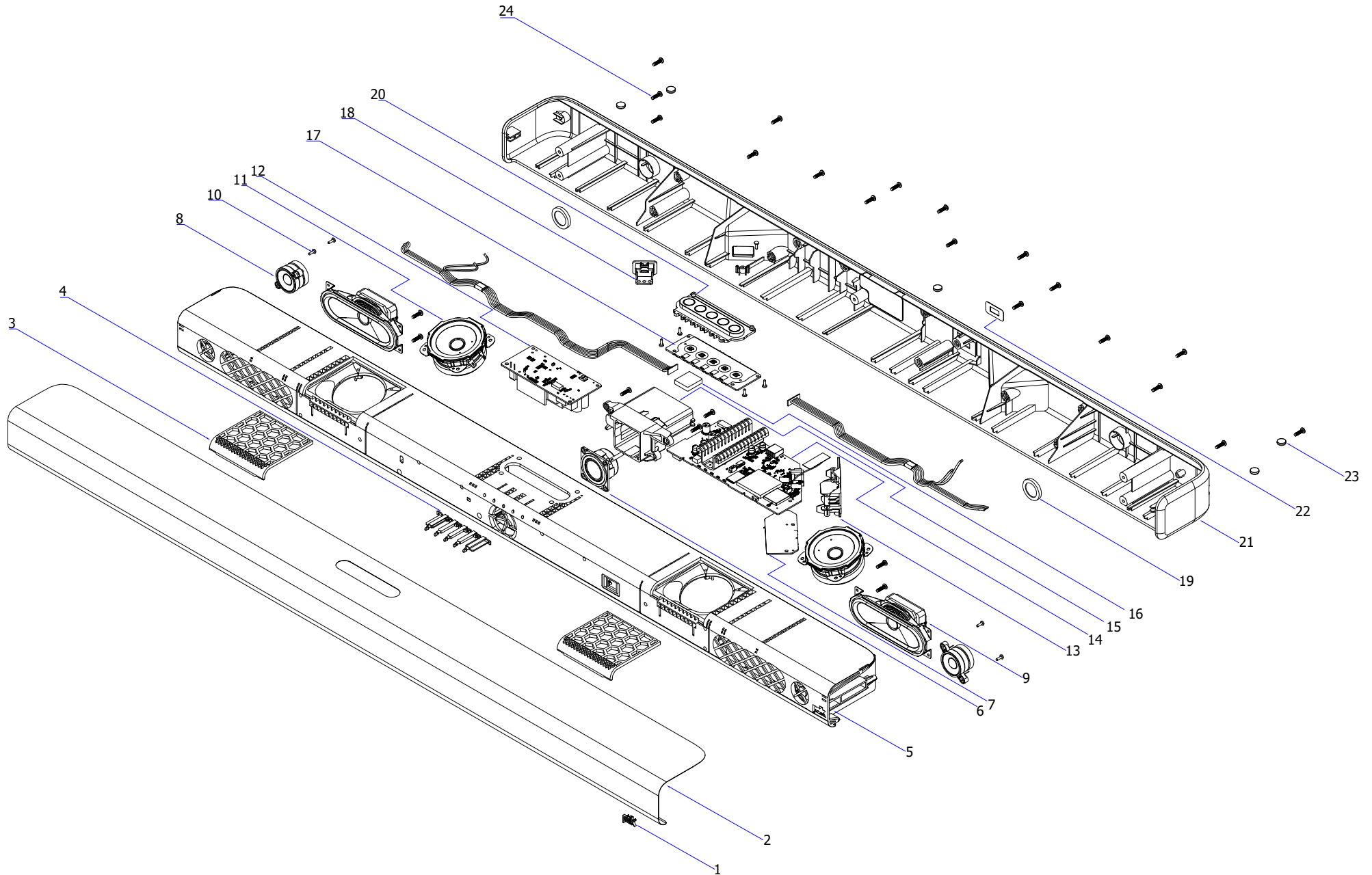
Proceeding : **BACK PLATE ASSY**

(1) Remove the screws. Remove the connector.



EXPLODED VIEW for Sound bar

Parts List : <https://dmedia.soundunited.com/documents/details/28925>




Before Servicing
This Unit

Electrical

Mechanical

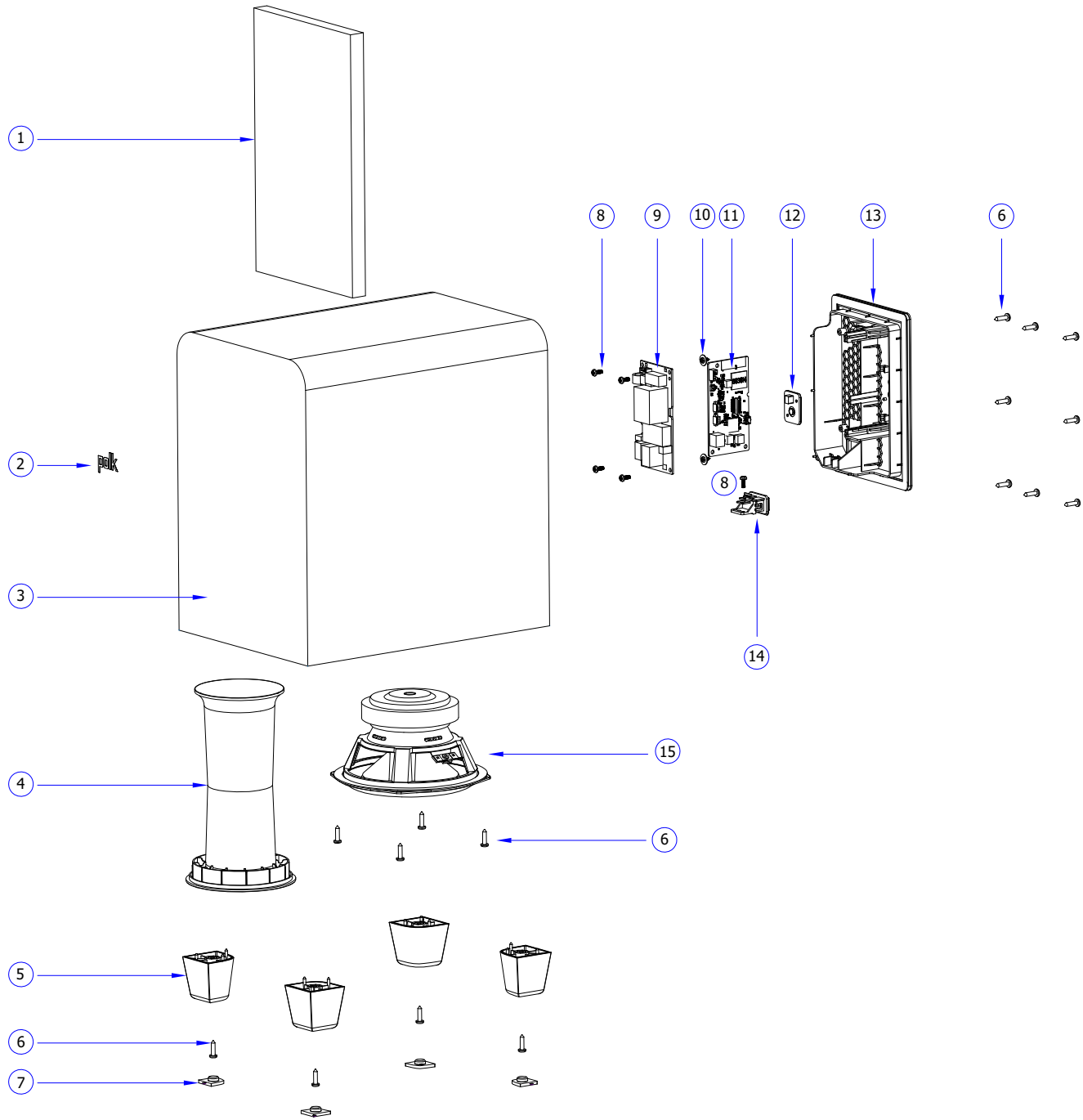
Repair Information

Updating

WARNING:
Parts marked with this symbol  have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

EXPLODED VIEW for Subwoofer

Parts List : <https://dmedia.soundunited.com/documents/details/28925>



Before Servicing
This Unit

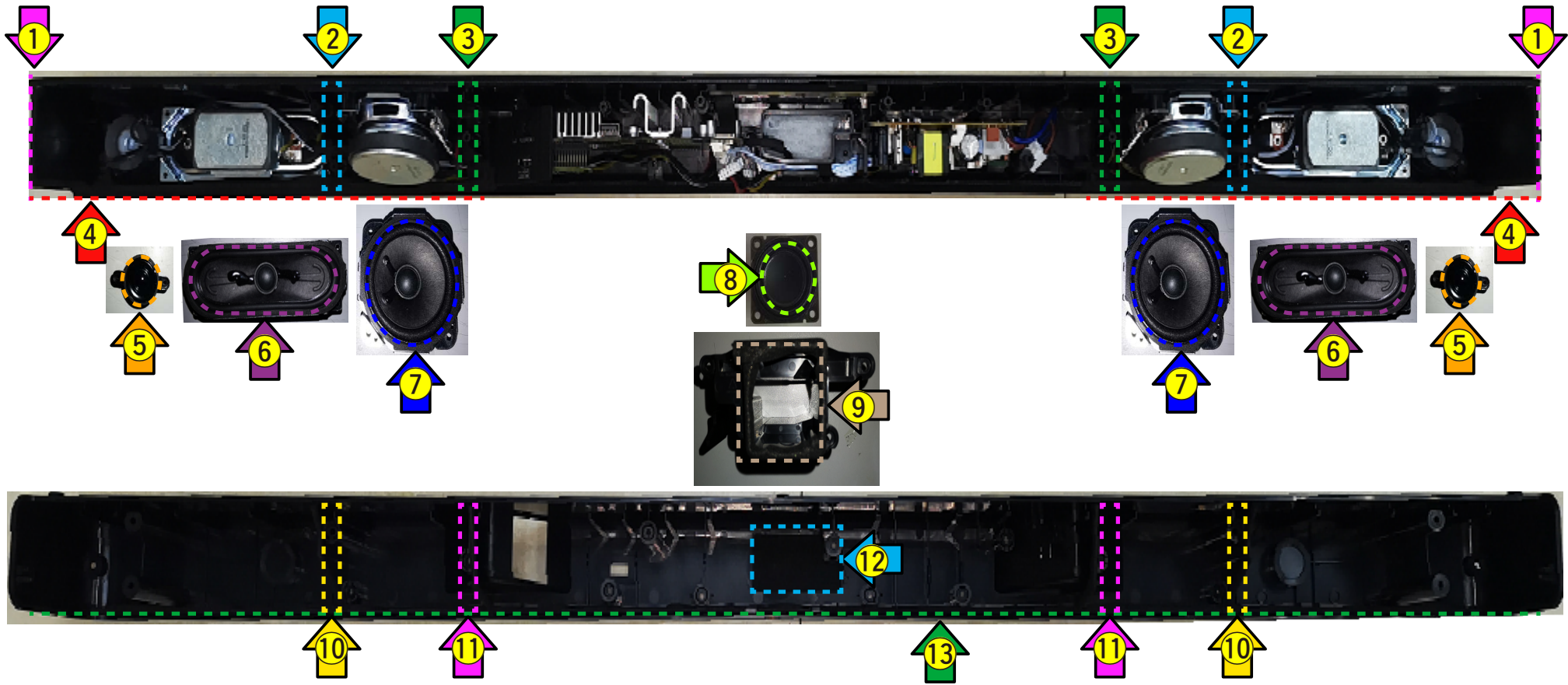
Electrical

Mechanical

Repair Information

Updating

SEALING GASKET VIEW OF AN AIR LEAK PREVENTION



REF No.	Part No.	Part Name	Remarks	Q'ty
1	-	EVA L130*W10*T1.5mm	54-465380-000	2
2	-	Line EVA(T1mm, W20mm*L35mm)	-	2
3	-	Line EVA(T1mm, W20mm*L45mm)	-	2
4	-	EVA L300*W10*T1.5mm	54-465390-000	2
5	-	Coil EVA(T1mm, W1.5mm*L88mm)	-	2
6	-	Coil EVA(T1mm, W2.5mm*L280mm)	-	2
7	-	Coil EVA(T1mm, W2.85mm*L184mm)	-	2
8	-	Coil EVA(T1mm, W2.3mm*L127mm)	-	1
9	-	EVA L170*W10*T1mm	54-464090-000	1
10	-	EVA L86*W10*T1mm	54-464590-000	2
11	-	EVA L92*W10*T1mm	54-464590-000	2
12	-	EVA L67*W31*T1mm	54-465020-000	1
13	-	EVA L356*W10*T1mm	54-464590-000	1

Before Servicing
This Unit

Electrical

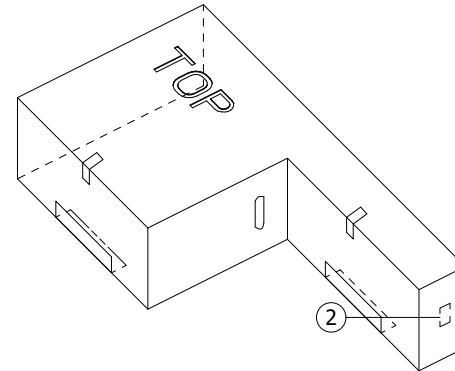
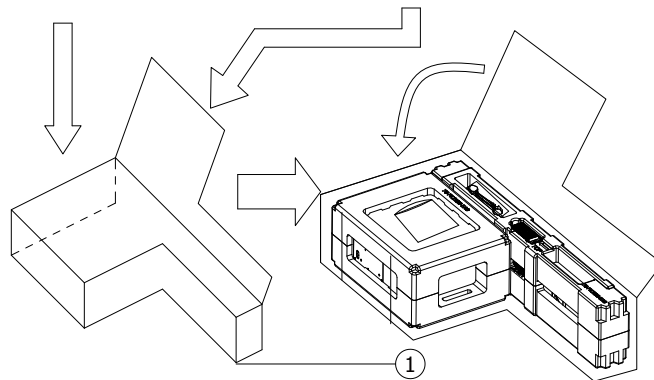
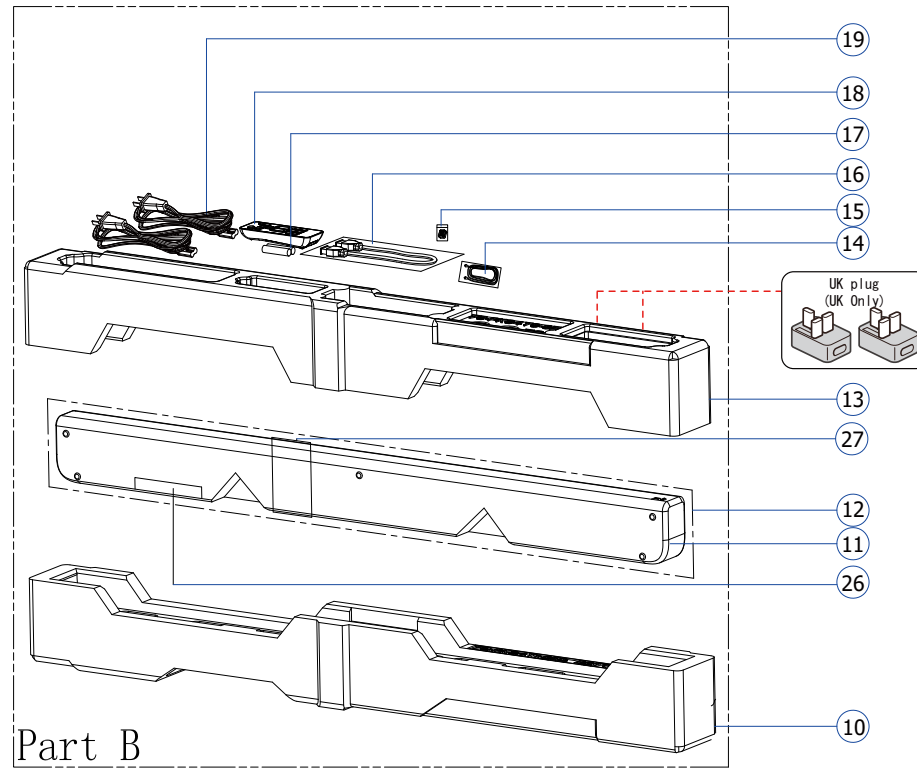
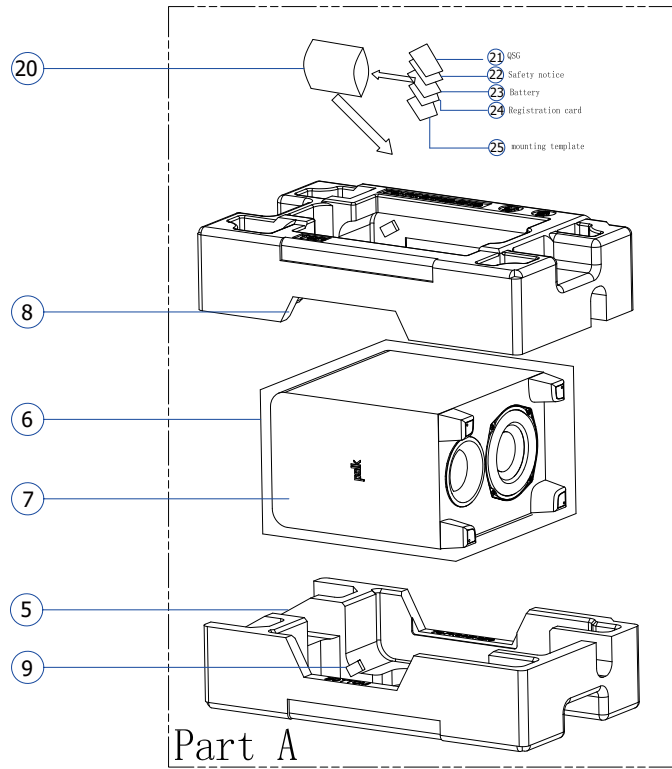
Mechanical

Repair Information

Updating

PACKAGING VIEW

Parts List : <https://dmedia.soundunited.com/documents/details/28925>



Before Servicing
This Unit

Electrical

Mechanical

Repair Information

Updating

REPAIR INFORMATION

TROUBLE SHOOTING

1. The unit does not power on.
2. Keys do not work.
3. BT can not work.
4. AUX IN cannot work.
5. HDMI ARC cannot work.
6. OPTICAL cannot work.
7. SUB is interrupted.
8. SUB can not work.

SPECIAL MODE

Special mode setting button

1. Version Display Mode
2. Log Submission Mode
3. Initialization Mode
4. Locale settings and confirmation
5. Retail Mode

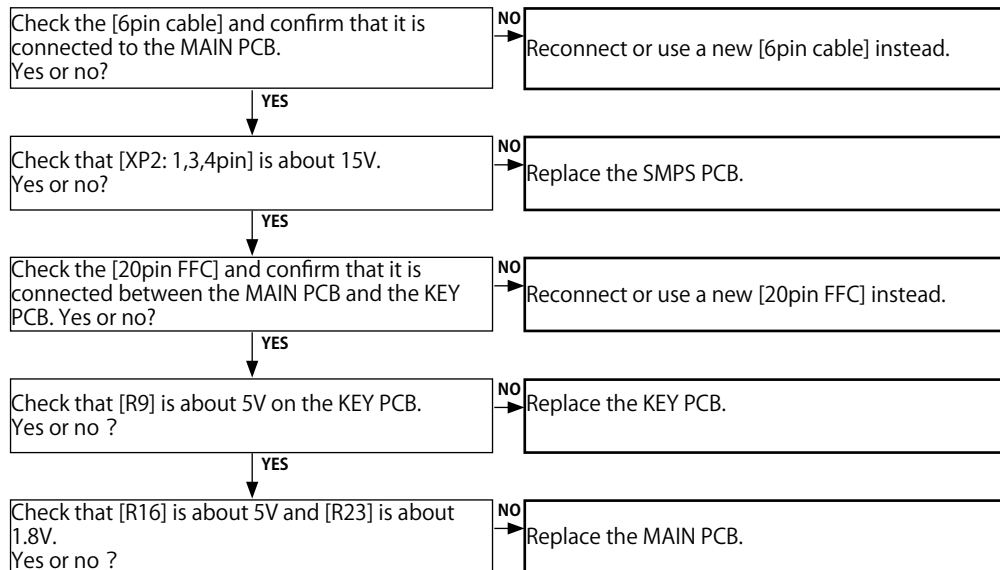
LED STATUS

LED Color sample

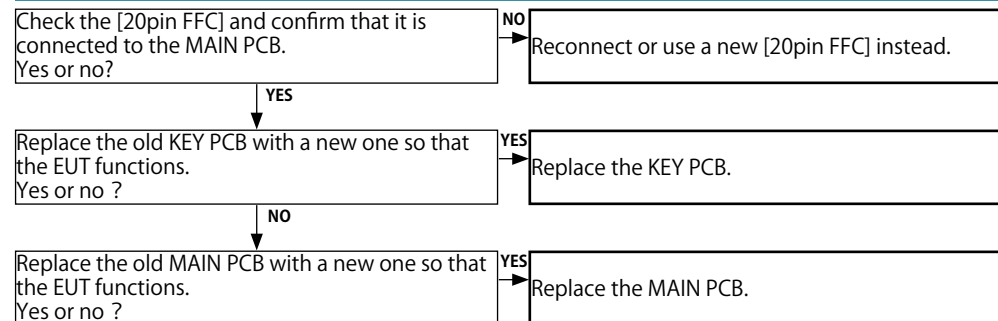
1. Boot up
2. Tune On
3. Turn Off (Standby)
4. Volume
5. Mute
6. Subwoofer Paring Mode
7. Input Source & Signal Indication
8. Auto-on Control
9. Bluetooth Pairing
10. Sound Mode Indication
11. Bass
12. Deep Standby Mode setting
13. Auto Standby setting
14. System Standby via CEC
15. IR Learning
16. Protection
17. USB Update
18. Factory Default
19. Version Display
20. Region Display
21. Log Capture mode
22. Retail Mode
23. Change Region

TROUBLE SHOOTING

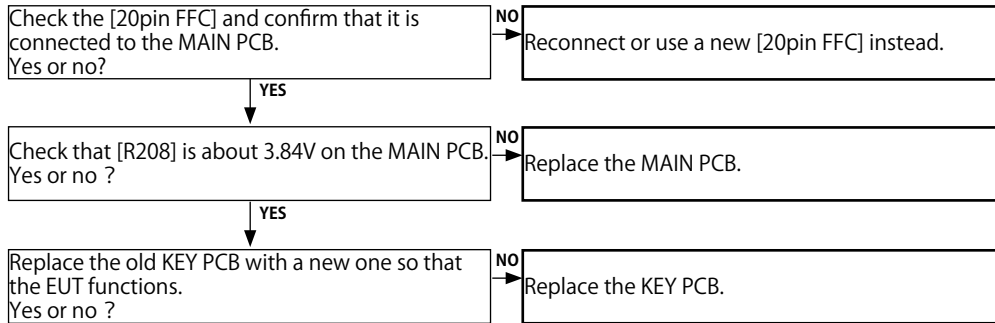
1. The unit does not power on.



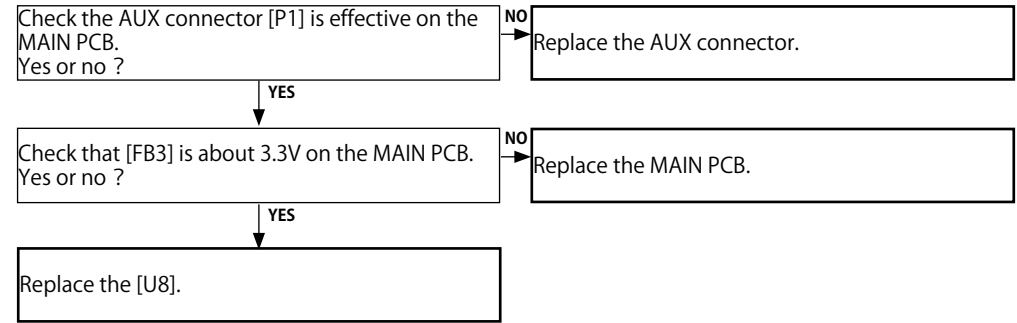
2. Keys do not work.



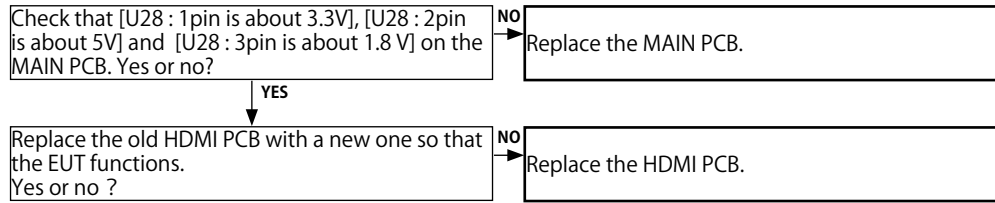
3. BT can not work.



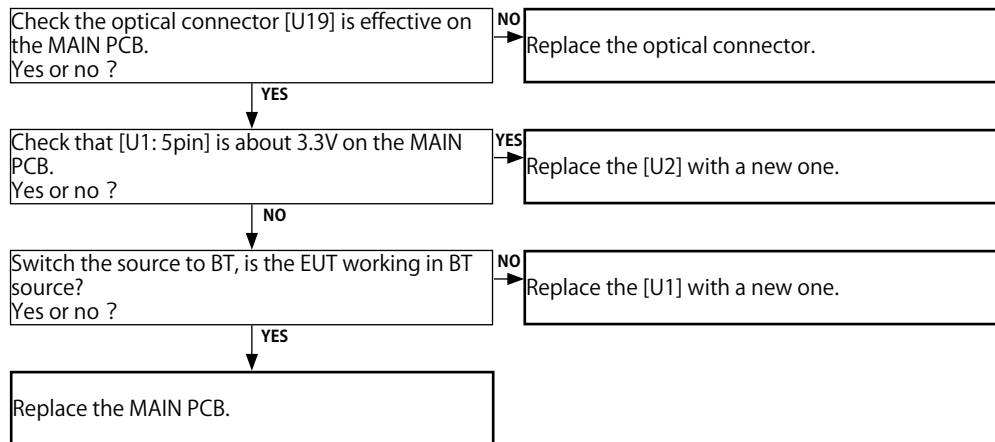
4. AUX IN cannot work.



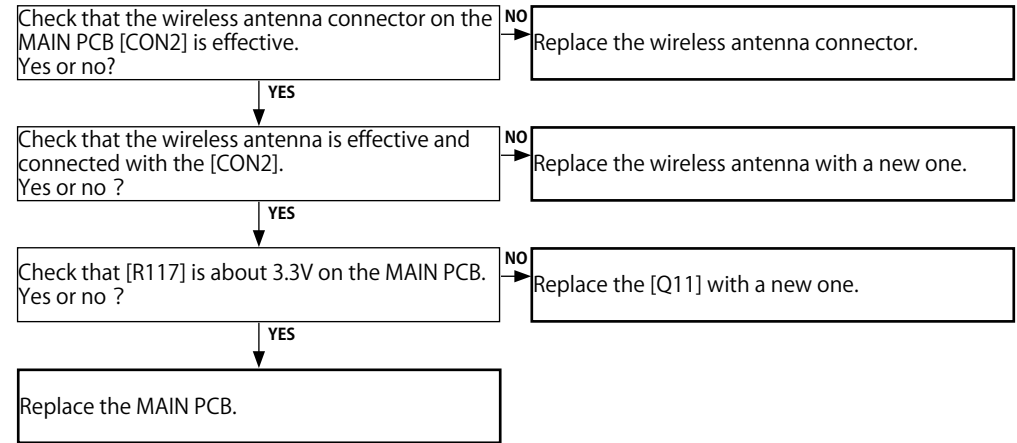
5. HDMI ARC cannot work.



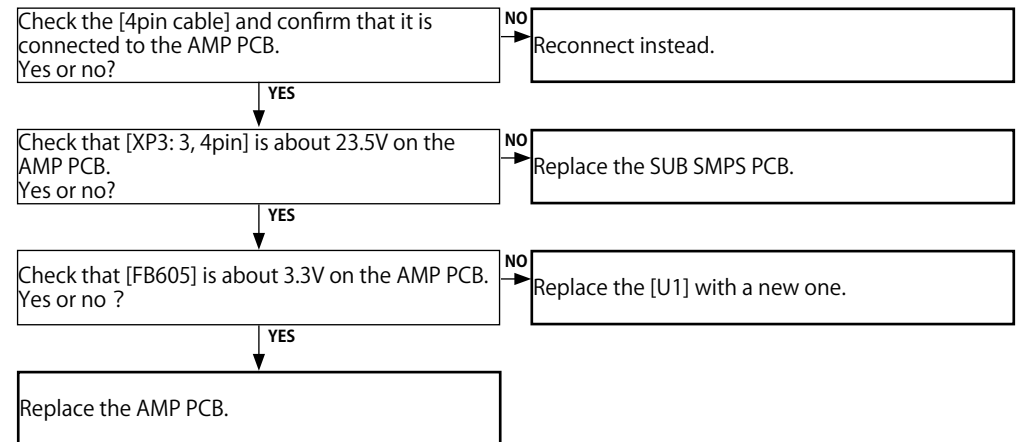
6. OPTICAL cannot work.



7. SUB is interrupted.



8. SUB can not work.

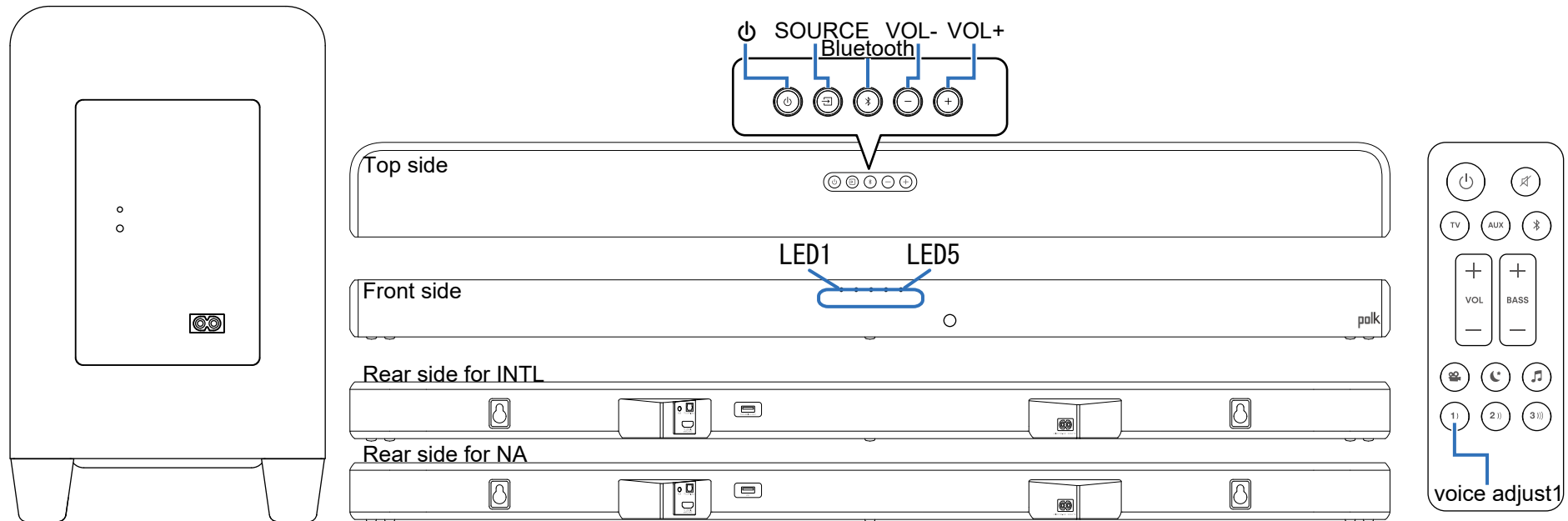


SPECIAL MODE

Special mode setting button

- ※ No. 1-1 : While the power is on- down buttons "A", "B", and "C" for at least 5 seconds .
- ※ No. 1-2 : While the power is on, hold down buttons "A" on the remote control for at least 10 seconds.
- ※ No. 2 : While the power is on, hold down buttons "A", "B", and "C" for at least 5 seconds .

No.	Mode	Button A	Button B	Button C	Descriptions
1-1	Version Display Mode for MCU	SOURCE	VOL-	VOL+	The firmware version is display. (See 1. Version Display Mode)
1-2	Version Display Mode for Region	voice adjust 1	-	-	Displays the region. (See 1. Version Display Mode)
2	Log Submission Mode	Bluetooth	Vol-	Vol+	This mode gets the Work log. (See 2. Log Submission Mode)
3	Initialization Mode	Vol+	Source	Power	All LEDs light up three times after initialization. (See 3. Initialization Mode)
4	Locale settings and confirmation	-	-	-	(See 4. Locale settings and confirmation)
5	Retail Mode	-	-	-	(See 5. Retail Mode)



1. Version Display Mode

1.1. Actions

Version information is displayed when the device is started in this mode.

1.2. Starting up

(1-1) for MCU Version :

While the power is On, hold down buttons "**SOURCE**", "**VOL-**" and "**VOL+**" for at least 5 seconds. FIRMWARE version is displayed by LED.

Example display

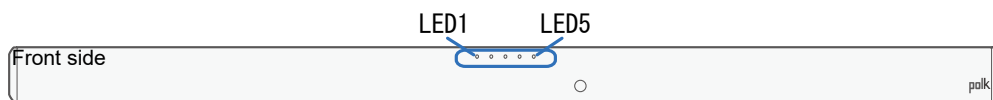
Version	LED1	LED2	LED3(Blue)	LED4(Purple)	LED5
01	non	non	Blinking x 0	Blinking x 1	non
10	non	non	Blinking x 1	Blinking x 0	non
24	non	non	Blinking x 2	Blinking x 4	non

(1-2) for Region

While the power is on, hold down buttons "**voice adjust 1**" on the remote control for at least 10 seconds.

LED1 blinks three times. The region is displayed by the color of LED1.

Region	NA	EU	JP	CH
LED1	Green	Blue	Red	Amber



2. Log Submission Mode

2.1. Actions

This mode gets the Work log.

2.2. Starting up

(1) Connect the USB flash drive.

(2) While the power is On, hold down buttons "**Bluetooth**", "**Vol-**" and "**Vol+**" for at least 5 seconds.

(3) The Working log file is saved to the USB flash drive.

The HDMI/CEC information is captured.

(4) When the writing of the Working log file is completed, LED1 and LED3 blink five times.

	LED1(white)	LED2	LED3(white)	LED4	LED5
	Blinking x 5	non	Blinking x 5	non	non

3. Initialization Mode

3.1. Actions

The default settings can be restored at any time by clearing all the user data and configuration information in the product to return it to the factory defaults.

The firmware is not downgraded.

3.2. Starting up

(1) While the power is On, hold down buttons "**Vol+**", "**Source**" and "**Power**" for at least 5 seconds.

(2) All LEDs light up three times after initialization.

	LED1(Red)	LED2(Red)	LED3(Red)	LED4(Red)	LED5
	Blinking x 3	Blinking x 3	Blinking x 3	Blinking x 3	non

(3) Wait six seconds before turning on the power again.

3.3. Initialization item

No.	Items	Default
1	Volume	Default : 12
2	Input Source	Default : HDMI eARC/ARC
3	Bass	Default : 4
4	Sound Mode	Default : Movie
5	Auto Standby Mode	Default : EU : On, Except EU : Off
6	Deep Standby Mode	Default : Off
7	Learned IR codes	Cleared
8	All BT and HDMI information	Cleared
9	Demo Mode default values are reset	Things that are allowed to be adjusted like sound modes, vol, bass, and voice adjust are reset to their defaults
10	Custom Demo Mode	Reset to the factory defaults

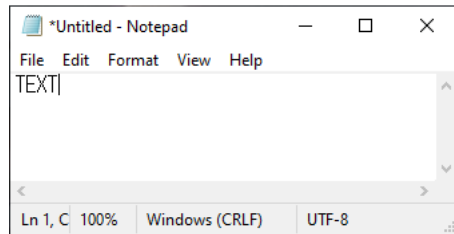
The following functions are not reset.

1	Subwoofer pairing information
2	Current firmware

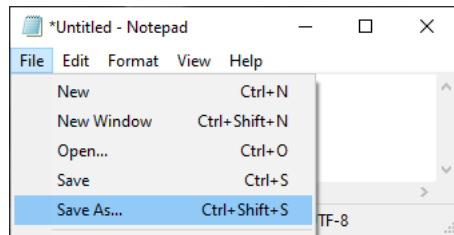
4. Locale settings and confirmation

4.1. Creating the locale settings and confirmation file

- (1) Click [Start button] - [Accessories] - [notepad] on the PC to launch the notepad.
- (2) Enter "TEXT".

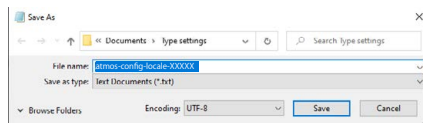


- (3) Click "File", and then click "Save As...".

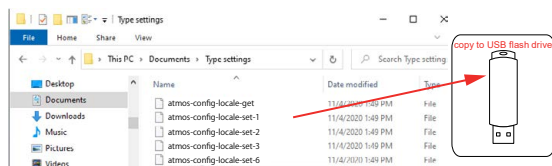


- (4) Enter the file name "atmos-config-locale-XXX" and click the Save button.
NOTE : Enter the file name in double quotation marks. (The file extension is not required.)

	Locale	File name
Confirmation	Locale Confirmation	"atmos-config-locale-get"
Change	North America	"atmos-config-locale-set-1"
	Europe	"atmos-config-locale-set-2"
	Japan	"atmos-config-locale-set-3"
	China	"atmos-config-locale-set-6"



- (5) Copy the files created on the USB flash drive.



4.2. Locale confirmation

- (1) Insert the power cord plug and turn on the power.
 - Do not connect anything to the unit.
- (2) After the unit finishes starting up, insert the USB flash drive. (atmos-config-locale-get)
- (3) Status LED1 blinks to indicate the locale.

Locale	LED1
North America(Green)	Blinking x 3(Green) -> Off(2sec)
Europe(Blue)	Blinking x 3(Blue) -> Off(2sec)
Japan(Red)	Blinking x 3(Red) -> Off(2sec)
China(Amber)	Blinking x 3(Amber) -> Off(2sec)

- (4) Remove the USB flash drive device.
- (5) After a reboot of this unit is completed, unplug the power cord.

4.3. Locale setting change

- (1) Insert the power cord plug and turn on the power.
 - Do not connect anything to the unit.
- (2) After the unit finishes starting up, insert the USB flash drive. (atmos-config-locale-set-X)
 - X : 1=North America, 2=Europe, 3=Japan, 6=China
- (3) The status LED1 lights up in white for approximately 5 seconds.
 - This indicates that the locale settings are complete.
 - Status LED1 blinks to indicate the locale.

Locale	LED1
North America(Green)	Blinking(white) 5sec -> Blinking x 3 (Green)
Europe(Blue)	Blinking(white) 5sec -> Blinking x 3 (Blue)
Japan(Red)	Blinking(white) 5sec -> Blinking x 3 (Red)
China(Amber)	Blinking(white) 5sec -> Blinking x 3 (Amber)

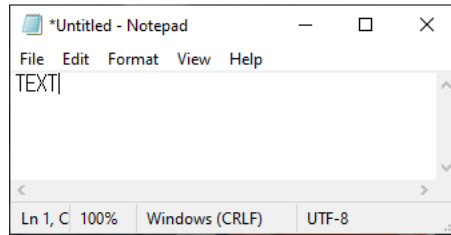
- (5) Remove the USB flash drive device.
- (6) After the unit finishes restarting, perform a factory reset.
 - See "3. Initialization Mode"
- (7) Remove the AC power cord.

5. Retail Mode

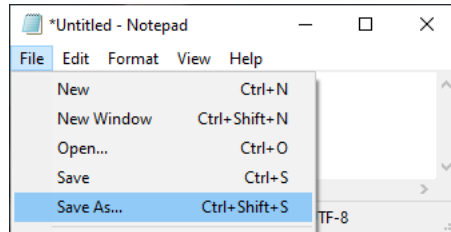
Retail Mode is used to configure this unit to demonstrate its functions in a retail environment in which the settings must be restricted or locked out.

5.1. Preparation

- (1) Click [Start button] - [Accessories] - [notepad] on the PC to launch the notepad.
- (2) Enter the content of "5.5. USB Content".



- (3) Click "File", and then click "Save As...".



- (4) Enter the file name and click the Save button.
NOTE : Enter the file name in double quotation marks. (The file extension is not required.)

Mode	File name
Enter Retail Mode	"atmos_retail_mode"
Exit Retail Mode	"atmos_retail_mode_cancel"

- (5) Copy the files created on the USB flash drive.

5.2. Retail Mode Operation

When you enter the Retail Mode, this unit must follow the procedure below.

Operation	Remarks
Power	This unit must always ON.
LEDs	All the Status LEDs are functioning normally.
Input source	The Input source can be selected using a parameter.
Volume	<ul style="list-style-type: none"> •The min, max, and reset levels of the Volume can be selected using a parameter. •This unit requires a fixed volume level that is set with a parameter. Example: To overwrite the default level, use the following format. soundbar=<override_volume_1_to_60>
Buttons	The availability of the buttons can be selected using parameters.

5.3. Starting up

- (1) Turn ON the power.
- (2) Insert the USB flash drive in the USB port on the back of this unit.
 - If the "atmos_retail_mode" file is in the USB flash drive, this unit reads the Retail Mode settings from the file and reboots after 10 seconds.
 - If this file is detected in the USB, #1 LED and #3 LED blink five times in red.

5.4. Canceling the selected mode

Release method 1

- (1) When you execute the initialization mode, the Retail Mode is entirely erased and this unit is restarted in/to the normal use mode.
(The Retail Mode is disabled and the settings are returned to the factory default.)

Release method 2

- (1) Turn ON the power.
- (2) Insert the USB flash drive in the USB port on the back of this unit.
 - If the "atmos_retail_mode_cancel" file is in the USB flash drive, this unit cancels/releases the mode.
 - Without changing the default settings, this unit is restarted in/to the normal mode.
 - Before this unit is restarted, LEDs #1 and #3 blink five times in green.

5.5. USB Content

Settings script

- During the Retail Mode, this device operates according to the settings script in the USB.
- If the attributes are not specified or invalid, this unit functions with the default values of the system.
- If the values are not specified or invalid, this unit functions with the default values of the system.
- If the minimum, maximum, and default combinations are invalid, this unit performs with the default values that are specified in the file if default is specified or performs with the system values if default is not specified.
- The volume level and button operation are controlled according to the settings included in the USB flash drive.

The following rule shows how to describe parameters.

<product>=<volume_default>[,OPTIONAL_PARAMETERS]

product	Default Value
Polk Signa S4	SIGNAS4=12

OPTIONAL_PARAMETERS are as follows.

<Attribute>=<value>[,OPTIONAL_PARAMETERS]

The following attribute names are supported.

	Attribute	Supported Value	Remarks
1	volume_min	numbers in the range 0 - 60	min should be less than default and max volume
2	volume_max	numbers in the range 0 - 60	max should be greater than default and min volume
3	volume_default	numbers in the range 0 - 60	default volume (resets after idle period)
4	volume_mute	disabled, enabled	-
5	default_input	hdmi-arc, optical, aux, BT	only one input can be default.
6	inputs	auto, hdmi-arc, optical, aux, BT	concatenate enabled inputs with " ". e.g inputs=hdmi-arc optical - only ARC and Optical are available. Auto enables all of input sources.
7	default_sound_mode	movie, music, night, voice1, voice2, voice3	only one mode can be default
8	sound_modes	movie, music, night, voice1, voice2, voice3	allowable sound modes. concatenate enabled sound modes with " ". e.g. sound_modes=movie music - only Movie and Music are available.
9	subwoofer	disabled, enabled	-
10	IR_learn	disabled, enabled	-
11	idle_timer	numbers in the range 0 - 600s	default is 120s. Bar resets any user adjusted parameter after no interaction for "idle_timer" seconds.

*If the default value of volume_min and volume_max is the same, the volume level cannot be changed.

Examples:

Case-1: Soundbar : Volume and Mute buttons cannot be used, Input auto detection (one of HDMI, HDMI ARC, Optical, AUX or Bluetooth)

```
SIGNAS4=12,volume_min=12,volume_max=12,input=auto
```

- Set up Steps:
- Step1: Connect HDMI ARC and TV with HDMI cable
- Step2: Turn On TV
Soundbar selects HDMI ARC as audio source and play.

Case-2: Soundbar : Volume(Volume Level 6 - 24) and Mute buttons can be used, Input AUX in(Analog input)

```
SIGNAS4=12,volume_min=6,volume_max=24,input=aux
```

- Set up Steps:
- Step1: Connect AUX and TV analog out
- Step2: Turn On TV
Soundbar selects AUX (analog input) as audio source and play. A user can change the volume level with Volume+/-, Mute buttons (range 6-24).

LED STATUS

LED Color sample

	white	Red	Green	Blue	Amber	Purple	Cyan
Lights	●	●	●	●	●	●	●
Blinks	★	★	★	★	★	★	★
Off	○	○	○	○	○	○	○

1. Boot up

While the unit is booting up, All LEDs blinks white with special period.

Mode	Action	
1 Booting	All LEDs blink white using following period until boot completes 2sec On/1sec Off	★ ★ ★ ★ ★

2. Tune On

Just indicates the current input source.

3. Turn Off (Standby)

Status LEDs light the following pattern to indicate standby Mode.

Mode	Action	
1 Go to Standby Mode	All LEDs blink Green three times then turn off, if goes to Standby Mode	● ● ● ● ●
2 Go to Deep Standby Mode	All LEDs blink white three times then turn off, if goes to Deep Standby Mode	★ ★ ★ ★ ★

4. Volume

- Volume range is 0 - 60
- Status LEDs indicates the current volume value using 5 Dot with dimming.
 - #1-#2 should have 3 step brightness. (33%, 66%, 100%)
 - #3-#5 should have 5 step brightness. (20%, 40%, 60%, 80%, 100%)
- Increasing the volume value increase the brightness of LED. And if the LED reaches maximum brightness, next LED lights with lowest brightness for indicating next volume value.
- Changing the volume value from 1 to 0 occurs #1 LED fast blinks three times
- Changing the volume value from 59 to 60 occurs #5 LED fast blinks three times
- Each LED lights up immediately when operating the volume
- Each LED turns off two seconds after volume operation is completed.

Volume Value	Action	
1 0	#1 LED fast blinks white with 100% brightness three times	★ ○ ○ ○ ○
2 1-2	#1 : 33%, #2 : 0%, #3 : 0%, #4 : 0%, #5 : 0%	● ○ ○ ○ ○
3 3-4	#1 : 66%, #2 : 0%, #3 : 0%, #4 : 0%, #5 : 0%	● ● ○ ○ ○
4 5-6	#1 : 100%, #2 : 0%, #3 : 0%, #4 : 0%, #5 : 0%	● ● ● ○ ○
5 7-8	#1 : 100%, #2 : 33%, #3 : 0%, #4 : 0%, #5 : 0%	● ● ● ● ○
6 9-10	#1 : 100%, #2 : 66%, #3 : 0%, #4 : 0%, #5 : 0%	● ● ● ● ●
7 11-12	#1 : 100%, #2 : 100%, #3 : 0%, #4 : 0%, #5 : 0%	● ● ● ● ○
8 13-14	#1 : 100%, #2 : 100%, #3 : 20%, #4 : 0%, #5 : 0%	● ● ● ● ○
9 15-16	#1 : 100%, #2 : 100%, #3 : 40%, #4 : 0%, #5 : 0%	● ● ● ● ○
10 17-19	#1 : 100%, #2 : 100%, #3 : 60%, #4 : 0%, #5 : 0%	● ● ● ● ○

Volume Value	Action	
11 20-22	#1 : 100%, #2 : 100%, #3 : 80%, #4 : 0%, #5 : 0%	● ● ● ● ○
12 23-25	#1 : 100%, #2 : 100%, #3 : 100%, #4 : 0%, #5 : 0%	● ● ● ● ○
13 26-28	#1 : 100%, #2 : 100%, #3 : 100%, #4 : 20%, #5 : 0%	● ● ● ● ○
14 29-31	#1 : 100%, #2 : 100%, #3 : 100%, #4 : 40%, #5 : 0%	● ● ● ● ○
15 32-34	#1 : 100%, #2 : 100%, #3 : 100%, #4 : 60%, #5 : 0%	● ● ● ● ○
16 35-38	#1 : 100%, #2 : 100%, #3 : 100%, #4 : 80%, #5 : 0%	● ● ● ● ○
17 39-42	#1 : 100%, #2 : 100%, #3 : 100%, #4 : 100%, #5 : 0%	● ● ● ● ○
18 43-45	#1 : 100%, #2 : 100%, #3 : 100%, #4 : 100%, #5 : 20%	● ● ● ● ●
19 46-48	#1 : 100%, #2 : 100%, #3 : 100%, #4 : 100%, #5 : 40%	● ● ● ● ●
20 49-51	#1 : 100%, #2 : 100%, #3 : 100%, #4 : 100%, #5 : 60%	● ● ● ● ●
21 52-55	#1 : 100%, #2 : 100%, #3 : 100%, #4 : 100%, #5 : 80%	● ● ● ● ●
22 56-59	#1 : 100%, #2 : 100%, #3 : 100%, #4 : 100%, #5 : 100%	● ● ● ● ●
23 60	#1-4 LEDs light white with 100% brightness #5 LED fast blinks white three times After #5 LED animation completes, all LEDs turn off immediately.	● ● ● ● ● ★

5. Mute

The LEDs which is used for input source indication blinks as following, while muting.

Input Source	Action	
1 HDMI	-	-
2 TV (HDMI eARC/ARC)	Input Source LED blinks white (0.75 seconds On/0.75 seconds Off)	★ ○ ○ ○ ○
3 TV (Optical)	Input Source LED blinks white (0.75 seconds On/0.75 seconds Off)	★ ★ ○ ○ ○
4 AUX	Input Source LED blinks white (0.75 seconds On/0.75 seconds Off)	★ ★ ★ ○ ○
5 Bluetooth	Input Source LED blinks Blue (0.75 seconds On/0.75 seconds Off)	○ ○ ○ ● ○
6 USB	Input Source LED blinks Amber (0.75 seconds On/0.75 seconds Off)	○ ○ ○ ● ○

6. Subwoofer Paring Mode

While the power is On, hold down buttons "Bluetooth" and "Vol+" for at least 5 seconds. While Subwoofer Pairing mode, Status LEDs blinks as following.

Status	Action	
1 Subwoofer Paring Mode	#1 and #2 LED blink Red alternatively	● ● ○ ○ ○
2 Clear Pairing	#3 and #4 LEDs blink Red three time alternatively	○ ○ ● ● ○

7. Input Source & Signal Indication

StatusLEDs light the following pattern to indicate the current input source.

Status LEDs color depends on the input signal

When the unsupported audio signal is incoming, Status LEDs turn **Red**.

Always display Input Source unless an event occurs.

	Input Source	Input Signal	Action	
1-1	HDMI	Dolby Atmos stream*1	-	-
1-2		Dolby stream (other than Atmos)	-	-
1-3		PCM or No Signal	-	-
1-4		AAC (Main)	-	-
1-5		AAC (Sub)	-	-
1-6		AAC (Main+Sub)	-	-
1-7		Unsupported audio signal	-	-
2-1	TV (eARC/ARC)	Dolby Atmos stream*1	#1 LED lights Cyan	
2-2		Dolby stream (other than Atmos)	#1 LED lights Green	
2-3		PCM or No Signal	#1 LED lights white	
2-4		AAC (Main)	#1 LED lights Amber	
2-5		AAC (Sub)	#1 LED lights Amber and #2 LED lights Red	
2-6		AAC (Main+Sub)	#1 LED lights Amber and #2 LED lights Blue	
2-7	Unsupported audio signal	#1 LED lights Red		
3-1	TV (Optical)	Dolby stream (other than Atmos)	#1-#2 LED lights Green	
3-2		PCM or No Signal	#1-#2 LEDs light white	
3-3		AAC (Main)	#1-#2 LED lights Amber	
3-4		AAC (Sub)	#1-#2 LED lights Amber and #3 LED lights Red	
3-5		AAC (Main+Sub)	#1-#2 LED lights Amber and #3 LED lights Blue	
3-6	Unsupported audio signal	#1-#2 LED lights Red		
4	AUX	N/A	#1 - #3 LEDs light white	
5	Bluetooth	N/A	#4 LED lights Blue	
6	USB (NA Only)	N/A	#4 LED lights Amber	







*1: Note for Dolby MAT signaling

In case of "Dolby Object MAT" signal, the signal indication color depends on the "Audio Processing type" flag value even DSP decodes "Dolby Atmos" signal.

- Audio Processing Type = Dolby Atmos : LED lights **Syan**. (Dolby Atmos)
- Audio Processing Type = other than Dolby Atmos : LED lights **white** (PCM)



8. Auto-on Control

Status LEDs light the following pattern to indicate the current Input Source Auto-On Control setting.

	Input Source	Input Signal	Action	
1-1	HDMI	Auto On Control On	-	-
1-2		Auto On Control Off	-	-
2-1	TV (eARC/ARC)	Auto On Control On	#1 LED blinks Green three times	
2-2		Auto On Control Off	#1 LED blinks Red three times	
3-1	TV (Optical)	Auto On Control On	#1-#2 LEDs blink Green three times	
3-2		Auto On Control Off	#1-#2 LEDs blink Red three times	
4-1	AUX	Auto On Control On	#1-#3 LEDs blink Green three times	
4-2		Auto On Control Off	#1-#3 LEDs blink Red three times	





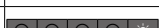

9. Bluetooth Pairing

While Bluetooth Pairing mode, Status LEDs blinks as following.

	Status	Action	
1	Bluetooth Paring Mode	#4 LED flashes Blue three times repeatedly. The period between flashing is 1 second. (200ms on > 200ms off > 200ms on > 200ms off > 200ms on > 1sec off)	
2	Bluetooth Searching Mode	#4 LED blinks Blue continuously.	


10. Sound Mode Indication

#5 LED light as following patterns to indicate that IR command is received.

	Mode	Action	
1	Movie	#5 LED blinks Amber once	
2	Music	#5 LED blinks Amber twice	
3	Night	#5 LED blinks Amber three times	
4	Voice Adjust 1/Dialog Enhancer Low	#5 LED blinks white once	
5	Voice Adjust 2/Dialog Enhancer Med	#5 LED blinks white twice	
6	Voice Adjust 3/Dialog Enhancer High	#5 LED blinks white three times	

These Sound Mode indicators are coexisting with Input source indicators. Indicator sample above is picked up only sound mode animation.

Following is a sample for sound mode is changed to Night in HDMI input.

	Mode	Action	
1	Change Sound Mode to Night in HDMI Input	#1 LED lights white for indicating HDMI as Input source #5 LED blinks Amber three times for indicating night mode	

11. Bass

Volume range is 0 - 8

Status LED indicates the current volume value using 5 Dot with dimming.

#1-#4 should have 2 step brightness. (50%, 100%)

Bass Value	Action	
1	0 #1 LED fast blinks white with 100% brightness three times	Change Bass from 2 to 0
2	1 #1 LED lights white with 50% brightness	
3	2 #1 LED lights white with 100% brightness	
4	3 • #1 LED Lights white with 100% brightness • #2 LED lights white with 50% brightness	
5	4 • #1 LED Lights white with 100% brightness • #2 LED lights white with 100% brightness	
6	5 • #1 LED Lights white with 100% brightness • #2 LED lights white with 100% brightness • #3 LED lights white with 50% brightness	
7	6 • #1 LED Lights white with 100% brightness • #2 LED lights white with 100% brightness • #3 LED lights white with 100% brightness	
8	7 • #1 LED Lights white with 100% brightness • #2 LED lights white with 100% brightness • #3 LED lights white with 100% brightness • #4 LED lights white with 50% brightness	
9	8 • #1 LED Lights white with 100% brightness • #2 LED lights white with 100% brightness • #3 LED lights white with 100% brightness • #4 LED fast blinks white three times After #5 LED animation completes, all LEDs turn off immediately.	

12. Deep Standby Mode setting

When Deep Standby Mode setting is changed, Status LED blinks as followings.

Status	Action	
1 Deep Standby Mode is set to On	#1, #3 LEDs light for 1 second, then blink twice Color : #1 : Green, #3 : Blue	
2 Deep Standby Mode is set to Off	#1, #3 LEDs light for 1 second, then blink twice Color : #1 : Red, #3 : Blue	

13. Auto Standby setting

When Auto Standby setting is changed, Status LEDs blinks as followings.

Status	Action	
1 Auto Standby is set to On	#1, #3 LEDs light for 1 second, then blink twice Color : #1 : Green, #3 : White	
2 Auto Standby is set to Off	#1, #3 LEDs light for 1 second, then blink twice Color : #1 : Red, #3 : White	

14. System Standby via CEC

When System Standby via CEC is changed, Status LEDs blinks as followings.

Status	Action	
1 System Standby via CEC is set to On	#1, #3 LEDs light for 1 second, then blink twice Color : #1 : Green, #3 : Green	
2 System Standby via CEC is set to Off	#1, #3 LEDs light for 1 second, then blink twice Color : #1 : Red, #3 : Green	

15. IR Learning

Starting up : While the power is On, hold down buttons "Source" for at least 3 seconds.

Exit : While the power is On, hold down buttons "Source" for at least 3 seconds.

Status	Action	
1 Waiting IR command of Sound Bar	Move white lighting repeatedly to left and right (0.1sec step)	
2 Waiting IR command of TV	All LEDs blinks white while waiting to receive the TV IR codes.	
3 Receives TV IR code	Move white lighting left to right twice. (0.1 sec step)	
4 In analyzing process	Same as "IR Learning (waiting IR command of TV)"	
5 Success	#5 LED blinks Green three times	
6 Error	#5 LED blinks Red three times	
7 Exit	#5 LED blinks white three times	

16. Protection

Status	Action	
1 When Protection activates	#1 LED fast blinks Red until unplugging the power code	

17. USB Update

White USB updating, Status LED indicates current progress.

Status	Action	
1 Plug in USB memory and loading file	#1 LED fast blinks white	
2 Check update file	#1 and #2 LEDs fast blink white	
3 Success entry USB update, please wait.	#1-3 LEDs fast blink white	
4 Update success	#1-4 LEDs light white for 5 seconds	
5 Update Fail, please retry	#5 LED fast blinks Red until complete the update	

18. Factory Default

While the power is On, hold down buttons "**Vol+**", "**Source**" and "**Power**" for at least 5 seconds. If Factory Reset becomes active, the Status LEDs blink as shown below.

Status	Action	
1 Factory Reset	#1-#4 LEDs blink Red three times	

19. Version Display

While the power is On, hold down buttons "**SOURCE**", "**VOL-**" and "**VOL+**" for at least 5 seconds. Firmware version is indicated using number of blinking.

Firstly, #3 LED blinks **blue** to indicate tens place, then #4 LED blinks **purple** to indicate ones place. The following animations are examples for version 02 and version 31.

Status	Action	
1 Version 02	#4 blinks Purple twice	
2 Version 31	#3 blinks Blue three times, then #4 blinks Purple once	

20. Region Display

The region is displayed by the color of LED1.

Status	Action	
1 NA	#1 LED blinks Green three times	
2 EU	#1 LED blinks Blue three times	
3 JP	#1 LED blinks Red three times	
4 CH	#1 LED blinks Amber three times	

21. Log Capture mode

Connect the USB flash drive.

While the power is On, hold down buttons "**Vol+**", "**Vol-**" and "**Bluetooth**" for at least 5 seconds.

Status	Action	
1 Complete to store the log file to the USB	#1 and #3 LEDs blink white five times.	

22. Retail Mode

Status	Action	
1 Enter Retail Mode	#1 and #3 LEDs blink Red five times.	
2 Exit Retail Mode	#1 and #3 LEDs blink Green five times.	

23. Change Region

Status	Action	
1 Reading the Region	#1 LED works the following behavior repeatedly. • Blinks three times, then turns off 2 seconds. • The blinking color depends on the region NA : Green , EU : Blue , JP : Red , CH : Amber	e.g.) Show NA region
2 Change the Region	#1 LED fast blinks white for 5 seconds, then blinks three times repeatedly. • The blinking color depends on the region NA : Green , EU : Blue , JP : Red , CH : Amber	e.g.) Show NA region

UPDATING

PROCEDURE AFTER REPLACING THE MCU, ETC.

FIRMWARE UPDATE PROCEDURE

1. Items necessary for update
2. Updating via USB

PROCEDURE AFTER REPLACING THE MCU, ETC.

The procedure after replacing the MCU (microprocessor), flash ROM, etc. is as follows.

PCB Name	Ref. No.	Description	Procedure after Replacement	Remark
MAIN (BAR)	U4	IA3S4 (BAR)	A	WIRELESS MODULE : Tx
MAIN (SUB)	M1	IA3S4 (SUB)	A	WIRELESS MODULE : Rx

Procedure after Replacement

A : The software has been written. The software is not written at the time of replacement.

B : The software has been written. The software may need to be rewritten by version updates. Check the version.

See "[FIRMWARE UPDATE PROCEDURE](#)" for information on writing the software.

C : The software has not been written. The software needs to be written after replacement.

See "[FIRMWARE UPDATE PROCEDURE](#)" for information on writing the software.

D : The software has been written. Be sure to rewrite with the latest software for your service region.

See "[FIRMWARE UPDATE PROCEDURE](#)" for information on rewrite the software.

FIRMWARE UPDATE PROCEDURE

1. Items necessary for update

Items necessary for update are as follows.

Update Type	Needed Part for Update	Requirement	Offered / not Offered		
			Standard Service Equipment Not offered by D&M	Purchase from D&M Article code	Download from SDI
Via USB	USB flash drive (USB 2.0 : Min 1GB) • We recommend a USB memory device that has an LED installed.	Formatting FAT 32	X	-	SU_ATMOS_0001.zip

2. Updating via USB

The latest firmware can be downloaded to a USB memory for updates.

2.1. Connecting to the USB flash drive

(1) Preparation

- Use a memory that supports USB2.0.
- Save the update file on a blank USB flash drive for use.
- USB format : Prepare a USB memory formatted in FAT32.
- Do not run the USB flash drive through a hub.
- Do not connect a computer to the USB port of this unit using a USB cable.
- Do not use an extension cable when connecting the USB flash drive unit.
- If a USB flash drive cannot be updated, replace it with a different USB flash drive and perform the update again.

2.2. Downloaded File

Copy the downloaded file to the USB flash drive root directory.

File name	SU_ATMOS_0001.zip Note : <ul style="list-style-type: none"> • Do not unzip the zip file. Copy it as it is. • Do not place files that are not related to the update program in the USB flash drive.
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2.3. Starting up

(1) Plug the power cord into both the SoundBar and Subwoofer and pair the Subwoofer to the SoundBar.

Note : Keep the SoundBar and Subwoofer close together.

(2-1) Insert the USB flash drive where the firmware is stored into the SoundBar.
See "2.4. Displays" for information on checking the update progress

(2-2) After inserting the USB flash drive into the SoundBar, wait for the update to start.(5 - 10 sec)

Note : If the update does not start, reconnect the power cord and try again from (1).

(2-3) When the update starts, the LED blinks in white to show the progress.

- The LEDs #1-4 blink to indicate the amount of updates that are completed.
- The time in which the three LEDs blink is the longest. (5 - 10 min)
- The Subwoofer LED blinks quickly during an update of the Subwoofer.
(Does not blink if there is no Subwoofer Update)

(2-4) When the update is completed, four LEDs light up in white and the SoundBar restarts automatically.





(3) After the restart is completed, remove the power cord and USB flash drive.

(4) Turn on the power again and check the new firmware version.
See "1. Version Display Mode"

(5) If the update fails, the LED on the rightmost blinks in red.
Remove and reconnect the power cord and try again.

2.4. Displays

(1) The update begins automatically, and the LEDs light as shown below.

	Status	Action	
1	Plug in USB memory and loading file	#1 LED fast blinks white	
2	Check update file	#1 and #2 LEDs fast blink white	
3	Success entry USB update, please wait.	#1-3 LEDs fast blink white for 5-10 minutes	
4	Update success	#1-4 LEDs light white for 5 seconds	
5	Update Fail, please retry	#5 LED fast blinks Red until complete the update	

---Cautions on Firmware Update---

- Do not turn off the power until updating is completed.
- Initialize after the update is complete.

Revision History

Ver	Page	Description	Before the change	After the change	Date
-	-	1st version issued	-	-	13, Sep. 2021

Before Servicing
This Unit

Electrical

Mechanical

Repair Information

Updating

polk[®]

www.polkaudio.com