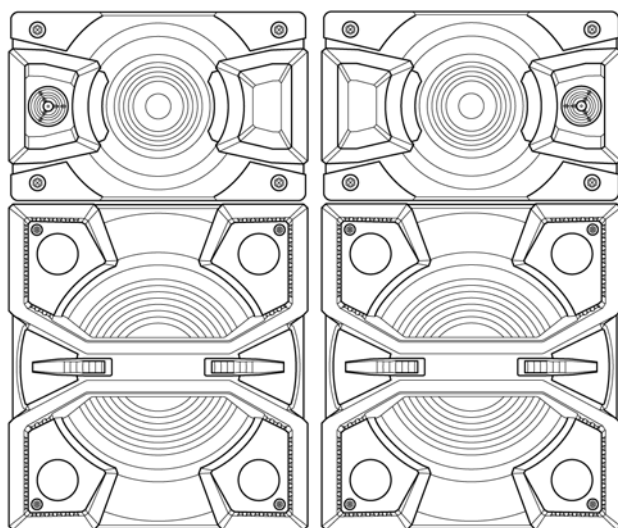


Service Manual

Speaker System

Model No. **SB-MAX4000E**
SB-MAX4000GS
SB-MAX4000PN
SB-MAX4000PS

Product Color : (K)... Black Type



SB-MAX4000

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 Specifications

Speakers

Speaker unit(s)

Tweeter	6 cm cone type
Woofer	20 cm cone type
Super Woofer	30 cm cone type

Impedance High 3 Ω / Mid 3 Ω / Low 2 Ω

Dimensions (W x H x D) 407 mm x 709 mm x 389 mm

Mass 19 kg

Notes:

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

2 Disassembly and Assembly Instructions

Caution Note:

- This section describes procedures for checking the operation and replacing the main components.
- For reassembly after operation checks or replacement, reverse the respective procedures.
- Special reassembly procedures are described only when required.
- 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.
- During replacement of component parts, please refer to the section of "Replacement Parts List" as described in the service manual.
- Select items from the following indexes when disassembly or replacement are required.

Front Speakers

- Disassembly of Upper Front Panel Block
- Disassembly of Tweeter Speaker (SP1)
- Disassembly of Woofer Speaker (SP2)
- Disassembly of Lower Front Panel Block
- Disassembly of Subwoofer Speaker (SP3)
- Disassembly of Lighting Wire P.C.B. Assembly

2.1. Type of screws

CAUTION NOTE:

Please use original screw and at correct locations.

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

a : XTB4+16AFJK

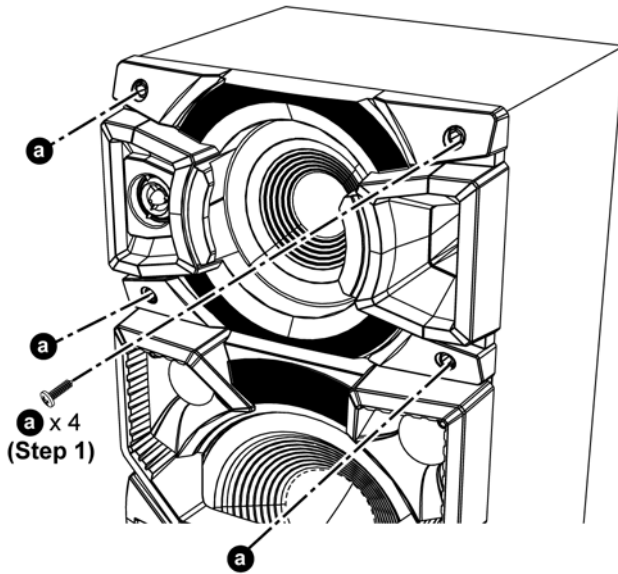
b : XTB4+10GFJ

c : XTB4+20AFJK

d : XTB3+10GFJK

2.2. Disassembly of Upper Front Panel Block

Step 1 : Remove 4 screws.



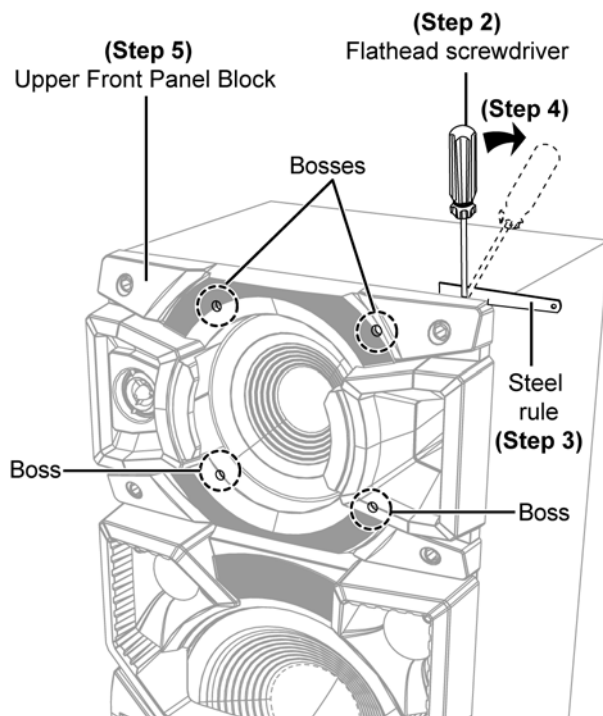
Step 2 : Insert flathead screwdriver into the grooves.

Step 3 : Insert a steel rule between the Upper Front Panel Block and Speaker Cabinet.

Step 4 : Apply light force to push the Upper Front Panel Block.

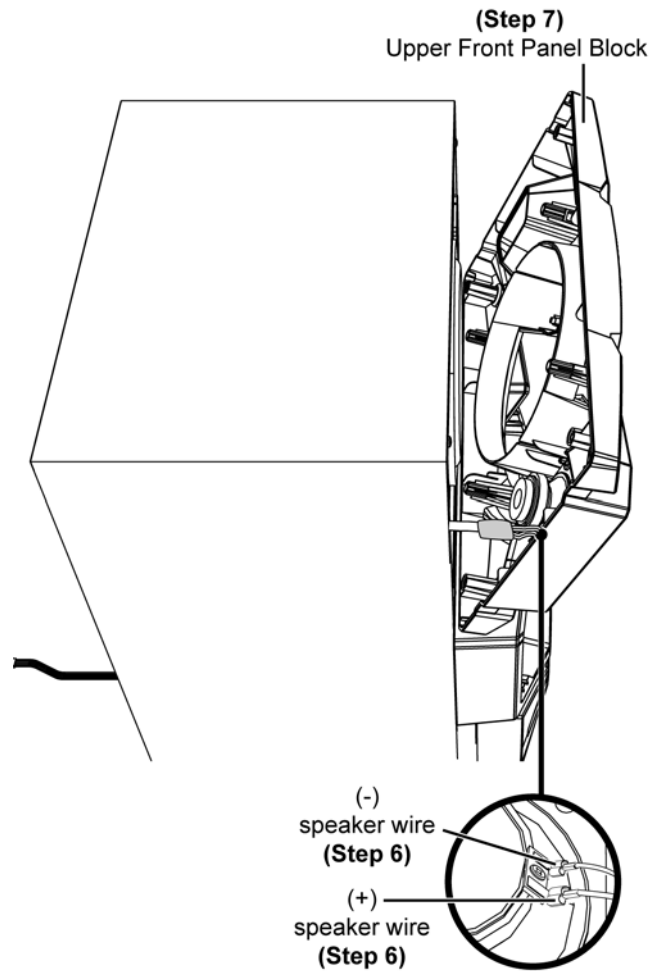
Caution : Do not exert strong force as it may damage the Upper Front Panel Block.

Step 5 : Detach Upper Front Panel Block.



Step 6 : Detach speaker wire.

Step 7 : Remove Upper Front Panel Block.

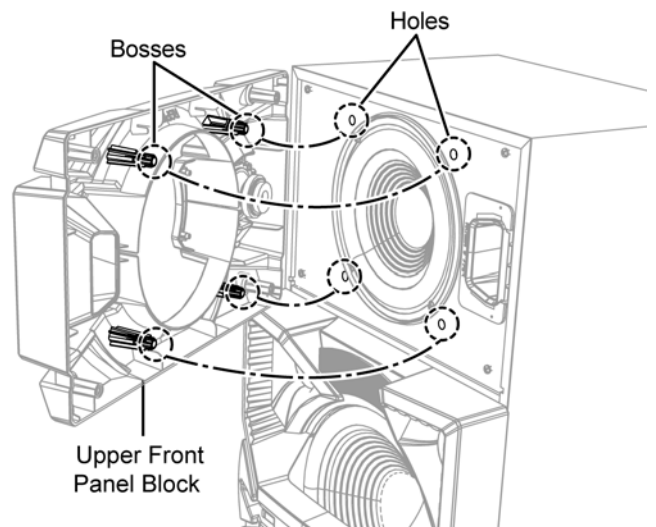


During assembling, please do following

Step 1 : Remove and clean up the bosses and holes.

Step 2 : Align the bosses of Upper Front Panel Block to the holes of Speaker Cabinet.

Step 3 : Press the Upper Front Panel Block tightly.

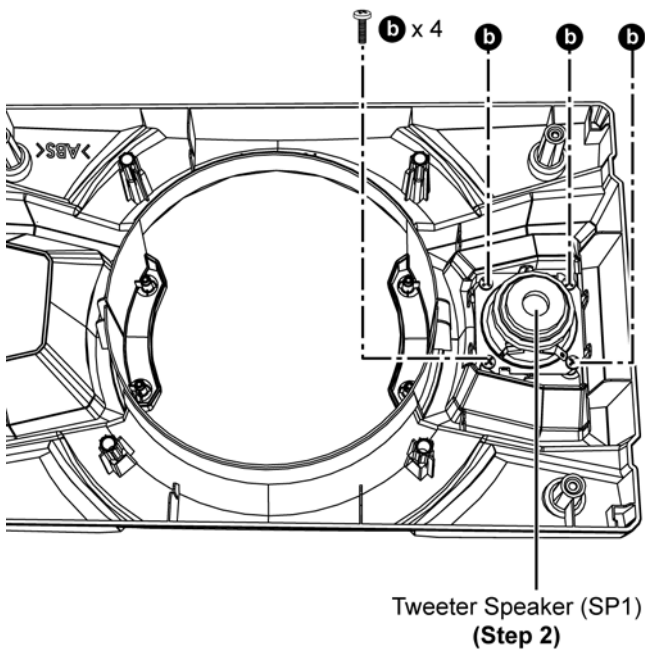


2.3. Disassembly of Tweeter Speaker (SP1)

- Refer to “Disassembly of Upper Front Panel Block”

Step 1 : Remove 4 screws.

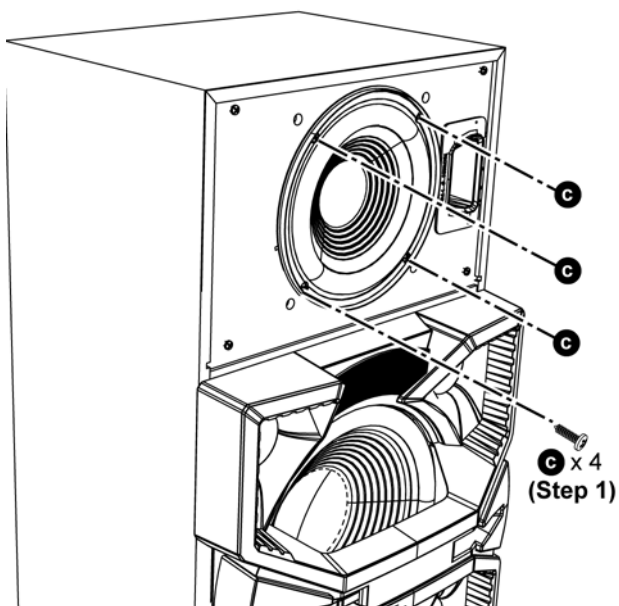
Step 2 : Remove Tweeter Speaker (SP1).



2.4. Disassembly of Woofer Speaker (SP2)

- Refer to “Disassembly of Upper Front Panel Block”

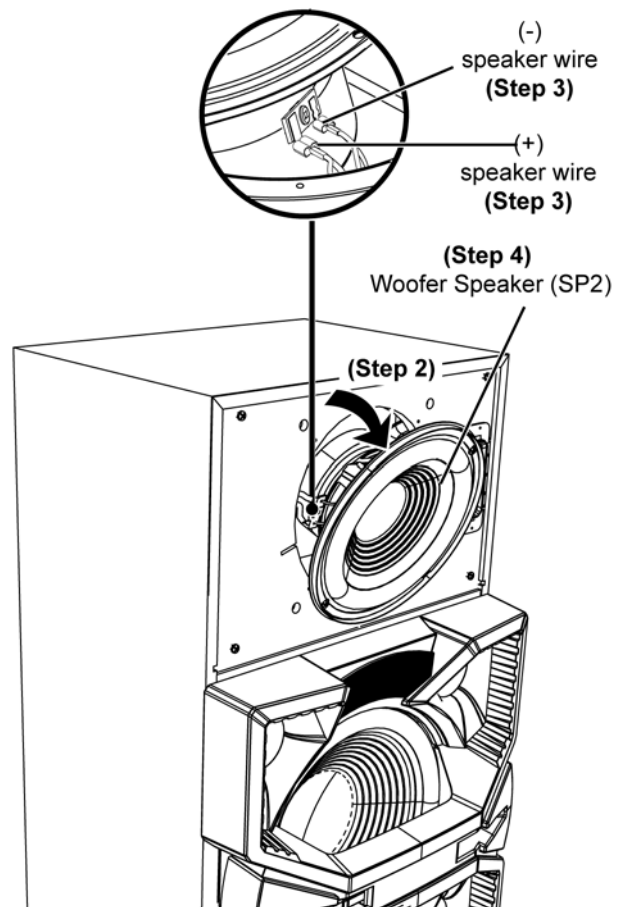
Step 1 : Remove 4 screws.



Step 2 : Slightly lift up Woofer Speaker (SP2).

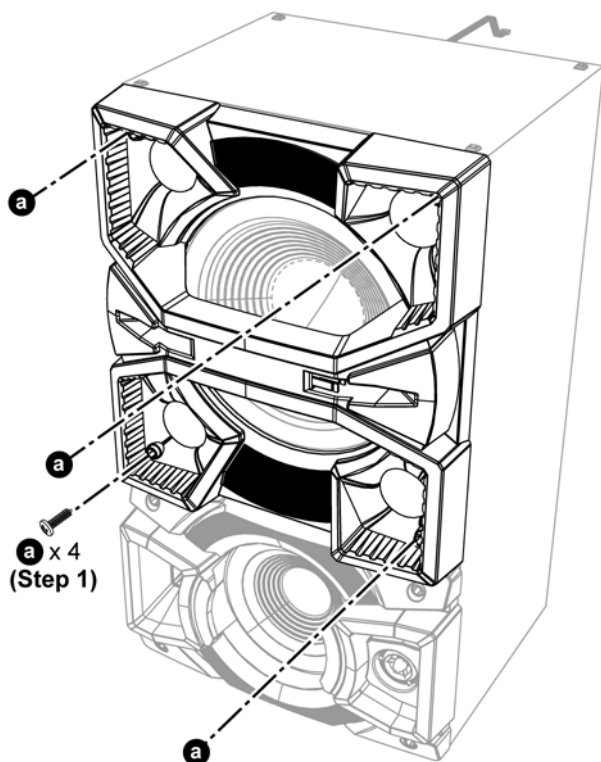
Step 3 : Detach speaker wire.

Step 4 : Remove Woofer Speaker (SP2).



2.5. Disassembly of Lower Front Panel Block

Step 1 : Remove 4 screws.



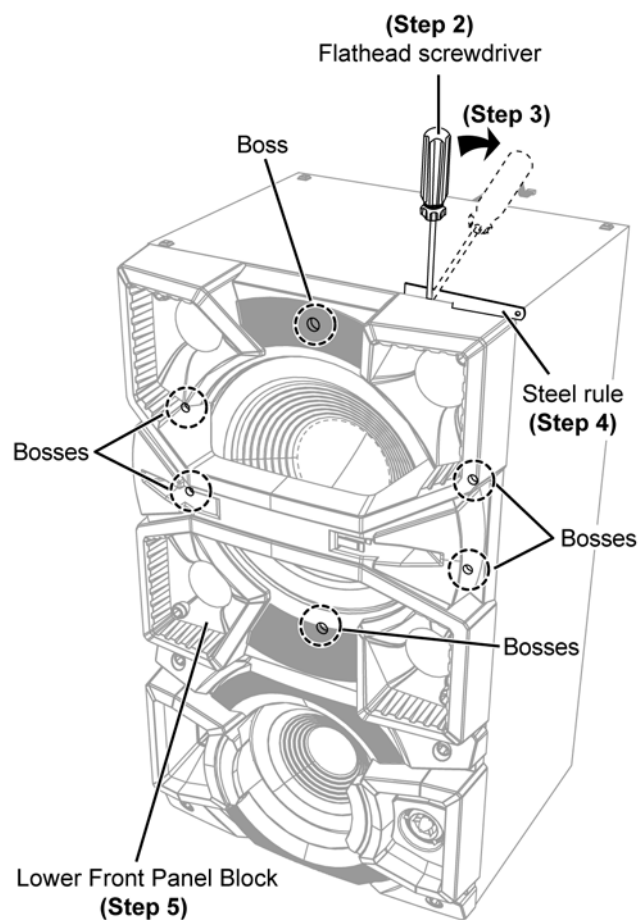
Step 2 : Insert flathead screwdriver into the grooves.

Step 3 : Insert a steel rule between the Lower Front Panel Block and Speaker Cabinet.

Step 4 : Apply light force to push the Lower Front Panel Block.

Caution : Do not exert strong force as it may damage the Lower Front Panel Block.

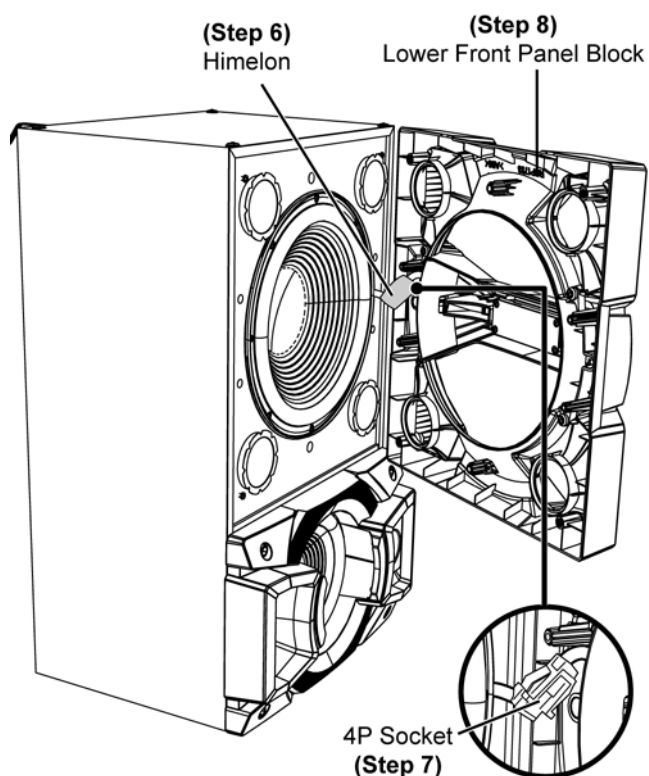
Step 5 : Detach Lower Front Panel Block.



Step 6 : Lift up the Himelon.

Step 7 : Detach 4P Socket.

Step 8 : Remove Lower Front Panel Block.

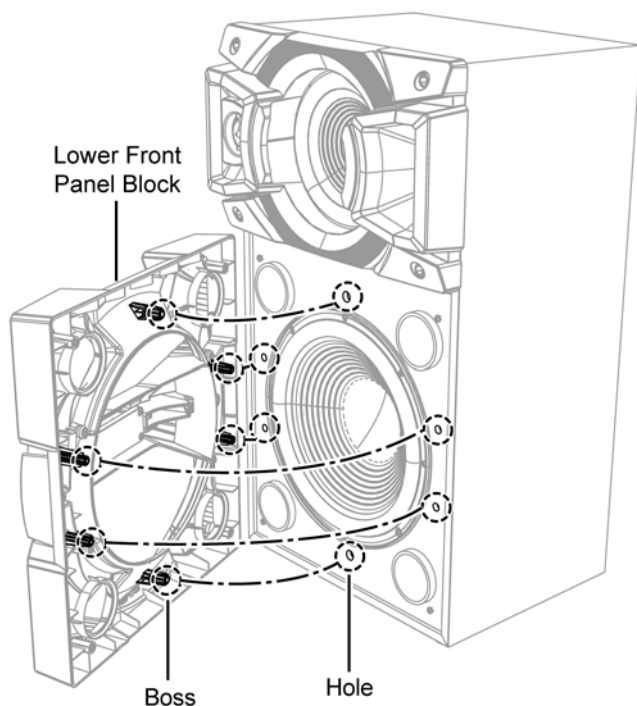


During assembling, please do following

Step 1 : Remove and clean up the bosses and holes.

Step 2 : Align the bosses of Lower Front Panel Block to the holes of Speaker Cabinet.

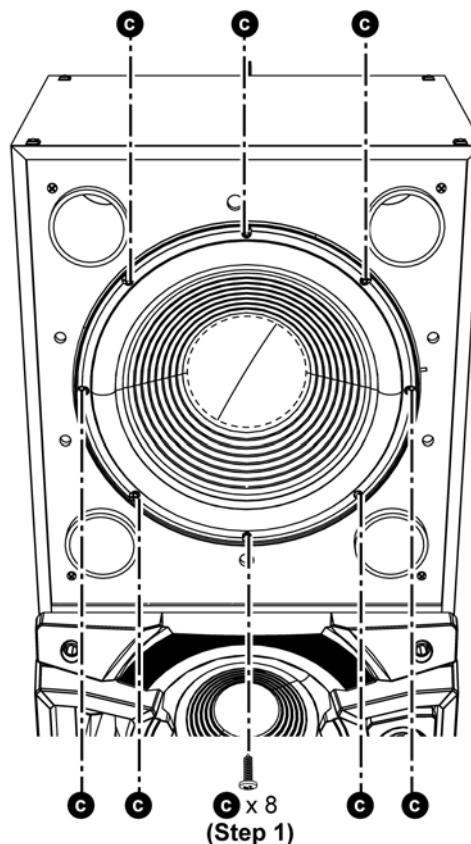
Step 3 : Press the Lower Front Panel Block tightly.



2.6. Disassembly of Subwoofer Speaker (SP3)

- Refer to "Disassembly of Lower Front Panel Block"

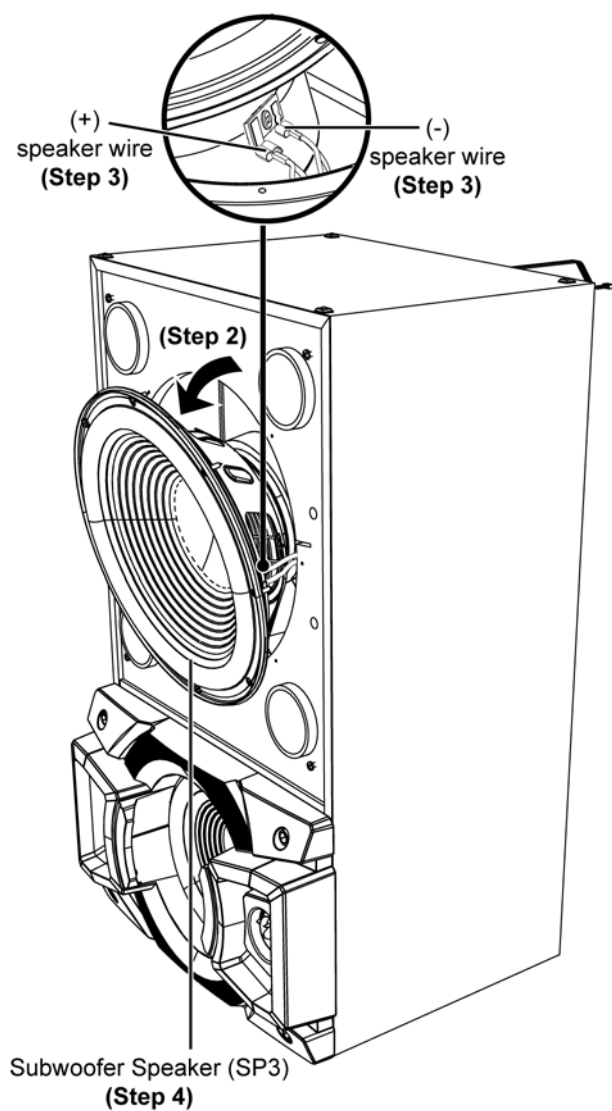
Step 1 : Remove 8 screws.



Step 2 : Slightly lift up Subwoofer Speaker (SP3).

Step 3 : Detach speaker wire.

Step 4 : Remove Subwoofer Speaker (SP3).



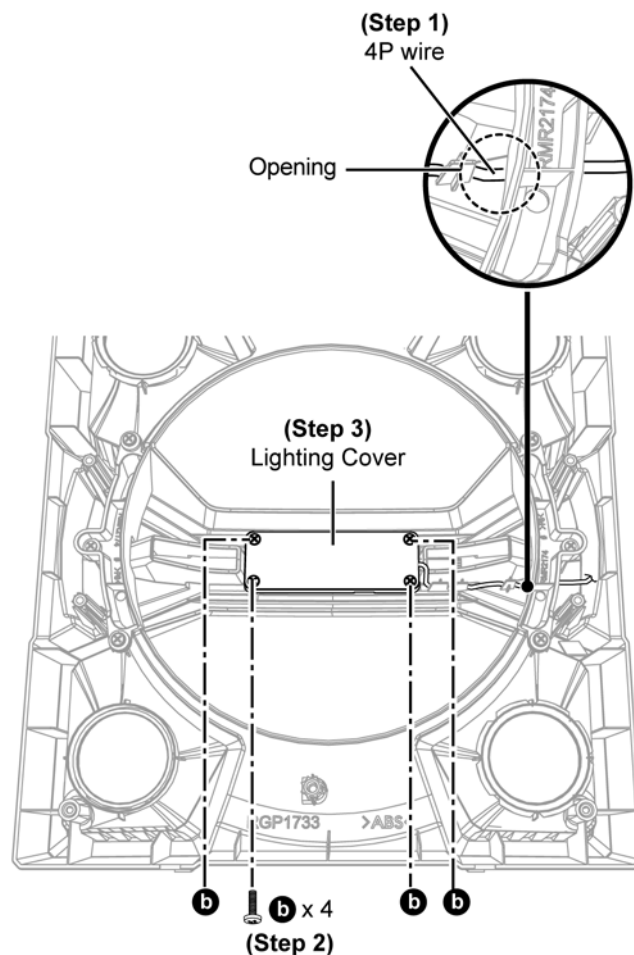
2.7. Disassembly of Lighting Wire P.C.B. Assembly

• Refer to "Disassembly of Lower Front Panel Block"

Step 1 : Release the 4P wire from Lower Front Panel Block.

Step 2 : Remove 4 screws.

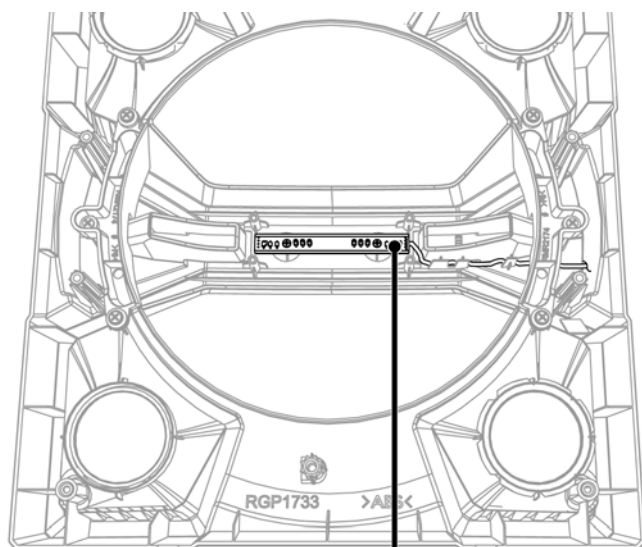
Step 3 : Remove Lighting Cover.



Step 4 : Release 4P wire from slot.

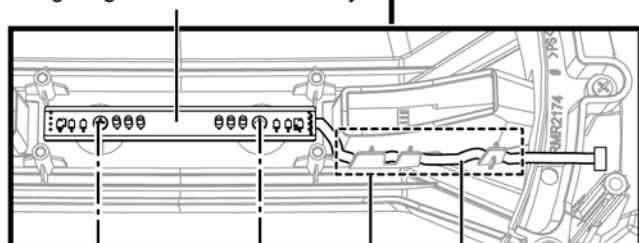
Step 5 : Remove 2 screws.

Step 6 : Remove Lighting Wire P.C.B. Assembly.

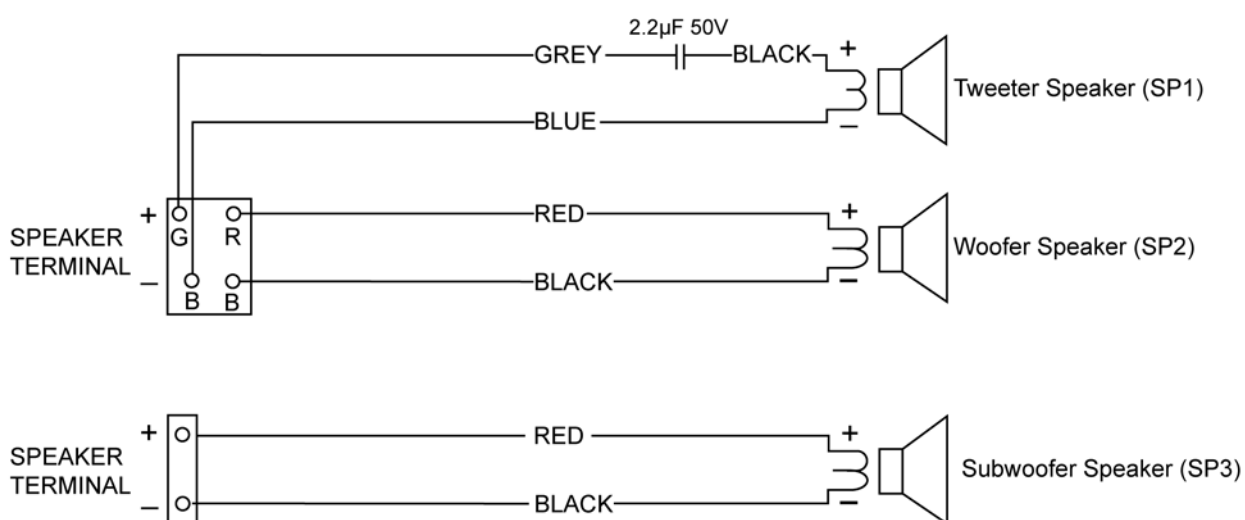


(Step 6)

Lighting Wire P.C.B. Assembly

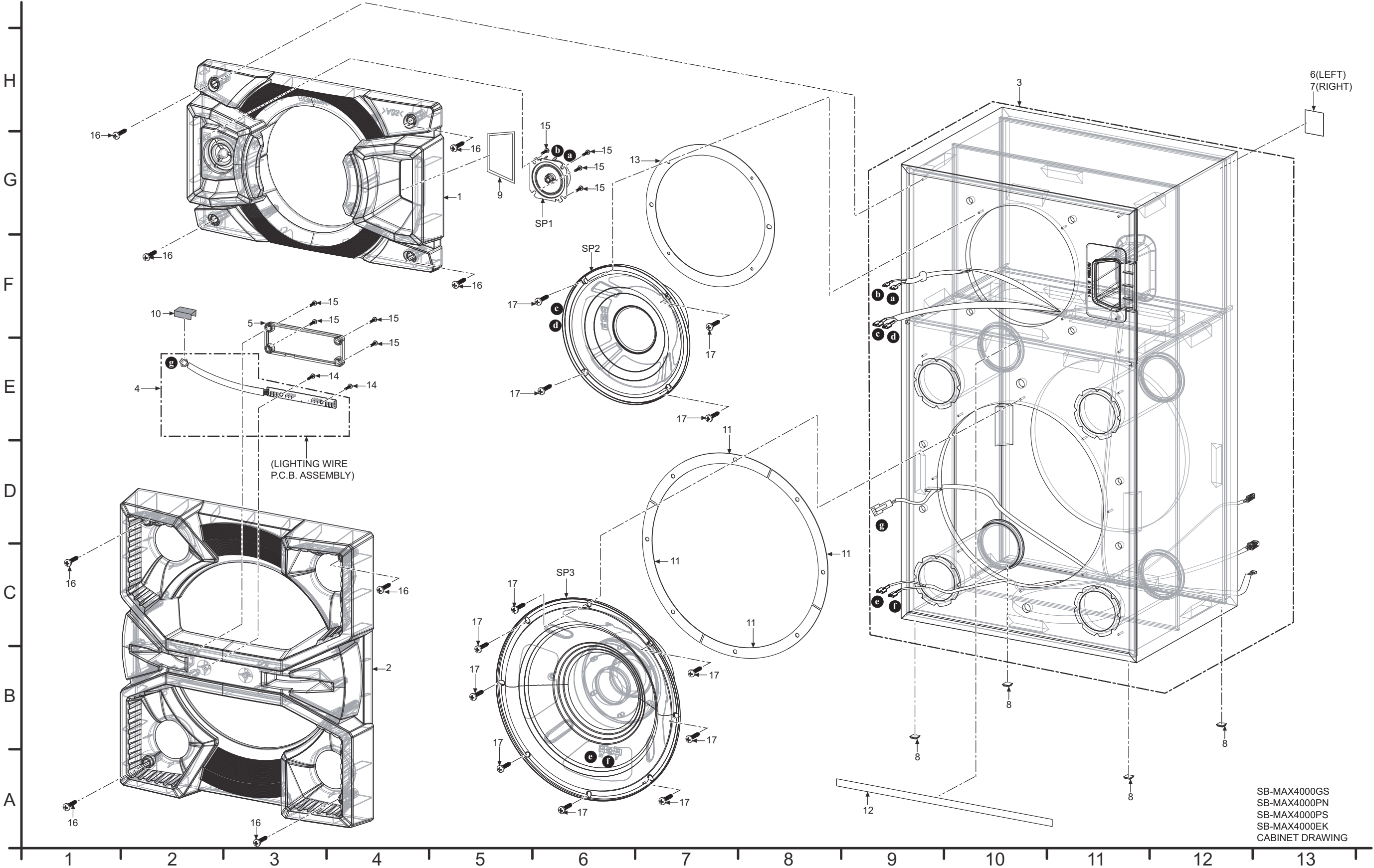


3 Wiring Connection Diagram

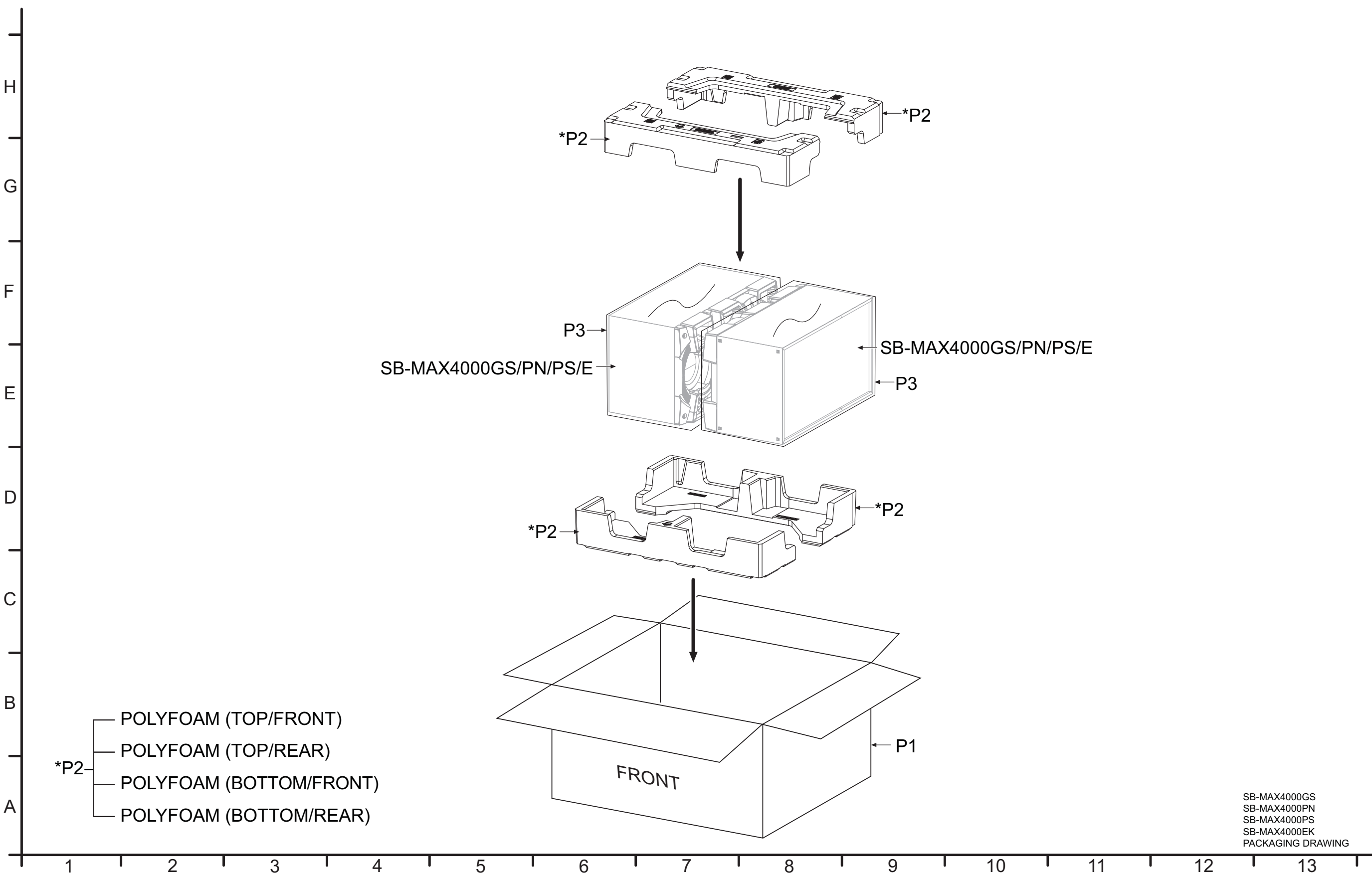


4 Exploded View and Replacement Parts List

4.1. Cabinet Parts Location




4.2. Packaging



4.3. Replacement Parts List

Important Safety Notice

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

RTL (Retention Time Limited)

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

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

Note:

- When replacing any of these components, be sure to use only manufacturer's specified parts shown in the replacement part list.
- The parenthesized indications on the Remarks column specify the destination & product color (Refer to the cover page for the information).
- Parts without these indications shall be used for all areas.
- All parts mentioned are supplied by PAVCJM unless indicated likewise.

4.3.1. Speakers

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			CABINET & CHASSIS		
	1	RYP2077-K	FRONT PANEL UPPER ASSY	1	
	2	RYP2080-KJ	FRONT PANEL LOWER ASSY	1	PN,PS
	2	RYP2080-K	FRONT PANEL LOWER ASSY	1	GS,E
	3	RYQ1566-KJ	WOODEN BOX ASSY	1	PN,PS
	3	RYQ1566-K	WOODEN BOX ASSY	1	GS,E
	4	REE1844A	LIGHTING WIRE PCB ASS'Y	1	
	5	RGL0818-QJ	LIGHTING COVER	1	PN,PS
	5	RGL0818-Q	LIGHTING COVER	1	GS,E
	6	RGN3540-K	SPEC LABEL L	1	PN,PS
	6	RGN3534-K1	SPEC LABEL L	1	GS,E
	7	RGN3540A-K	SPEC LABEL R	1	PN,PS
	7	RGN3534A-K1	SPEC LABEL R	1	GS,E
	8	RKA0346-K	LEG CUSHION	4	
	9	RMF0752-J	HIMELON PORT UPPER	1	PN,PS
	9	RMF0752	HIMELON PORT UPPER	1	GS,E
	10	RMQ2070-J	EVA PACKING	1	PN,PS
	10	RMQ2070	EVA PACKING	1	GS,E
	11	RMQ2431-J	EVA SHEET	4	PN,PS
	11	RMQ2431	EVA SHEET	4	GS,E
	12	RMQ2448-J	EVA PACKING	1	PN,PS

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	12	RMQ2448	EVA PACKING	1	GS,E
	13	RMQX0285-K	EVA PACKING	1	
	14	XTB3+10GFJK	SCREW	2	
	15	XTB4+10GFJ	SCREW	8	
	16	XTB4+16AFJK	SCREW	8	
	17	XTB4+20AFJK	SCREW	12	
			SPEAKER UNITS		
	SP1	L0AA06A00113	TWEETER SPEAKER (6CM)	1	
	SP2	L0AA20A00041	WOOFER SPEAKER (20CM)	1	
	SP3	L0AA30A00005	SUBWOOFER SPEAKER (30CM)	1	

4.3.2. Packing Materials

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			PACKING CASE & ACCESSORIES		
	P1	RPG0P28	PACKING CASE	1	PS
	P1	RPG0P30	PACKING CASE	1	PN
	P1	RPG0Q86	PACKING CASE	1	GS
	P1	RPG0R47	PACKING CASE	1	E
	P2	RPN2724-J	POLYFOAM	1	PN,PS
	P2	RPN2724	POLYFOAM	1	GS,E
	P3	RPF0745	MIRAMAT BAG	2	

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