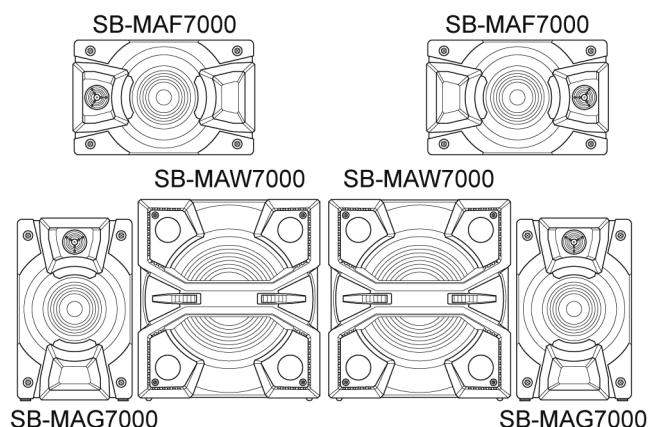


Service Manual

Speaker System

Model No. **SB-MAF7000PU**
SB-MAF7000GS
SB-MAG7000PU
SB-MAG7000GS
SB-MAW7000PU
SB-MAW7000GS
SB-MAX7000PU
SB-MAX7000GS



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 Specifications

Speakers (SB-MAF7000PU/GS, SB-MAG7000PU/GS)

Speaker unit(s)

Tweeter 6 cm cone type

Woofer 20 cm cone type

Impedance 3 Ω

Dimensions (W x H x D) 407 mm x 260 mm x 258 mm

Mass 5.5 kg

Subwoofer Speaker (SB-MAW7000PU/GS)

Speaker unit(s)

Super Woofer 30 cm Cone type

Impedance

6 Ω

Dimensions (W x H x D)

402 mm x 450 mm x 386 mm

Mass

13 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.

Speakers (SB-MAF7000PU/GS, SB-MAG7000PU/GS)

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

Subwoofer Speaker (SB-MAW7000PU/GS)

- Disassembly of Front Panel Block
- Disassembly of Subwoofer Speaker (SP3)
- Disassembly of Lighting Wire P.C.B. Assembly

2.1. Type of screws

2.1.1. Speakers (SB-MAF7000PU/GS, SB-MAG7000PU/GS)

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** : XTB3+10GFJK

2.1.2. Subwoofer Speaker (SB-MAW7000PU/GS)

CAUTION NOTE:

Please use original screw and at correct locations.

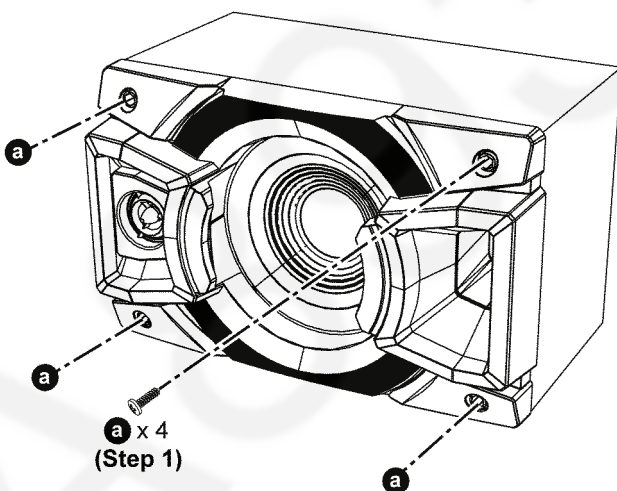
Below shown is part no. of different screw types used:

- a** : XTB4+16AFJK
- b** : XTB4+20AFJK
- c** : XTB4+10GFJ
- d** : XTB3+10GFJK

2.2. Speakers (SB-MAF7000PU/GS, SB-MAG7000PU/GS)

2.2.1. Disassembly of Front Panel Block

Step 1 : Remove 4 screws.



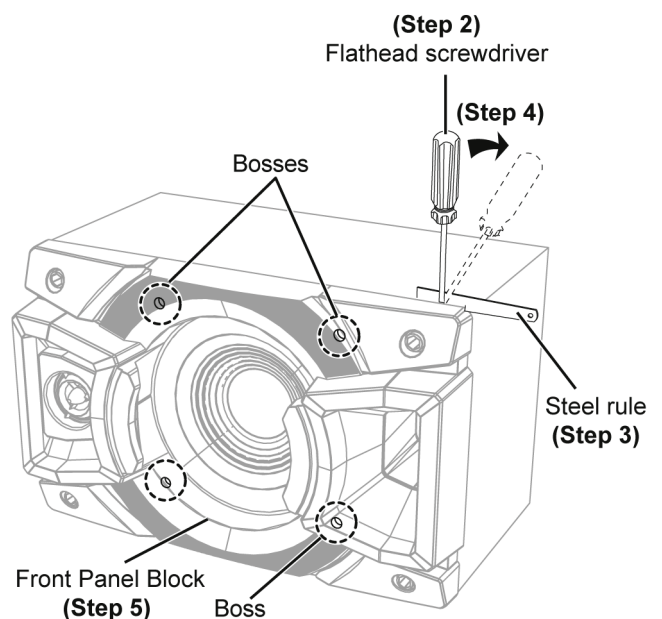
Step 2 : Insert flathead screwdriver into the grooves.

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

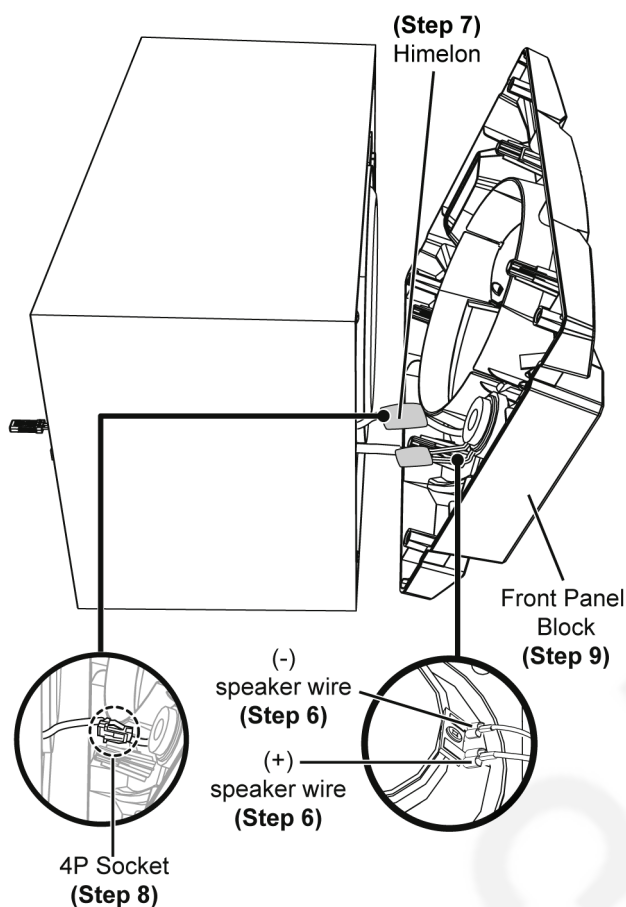
Step 4 : Apply light force to detach Front Panel Block.

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

Step 5 : Detach Front Panel Block.

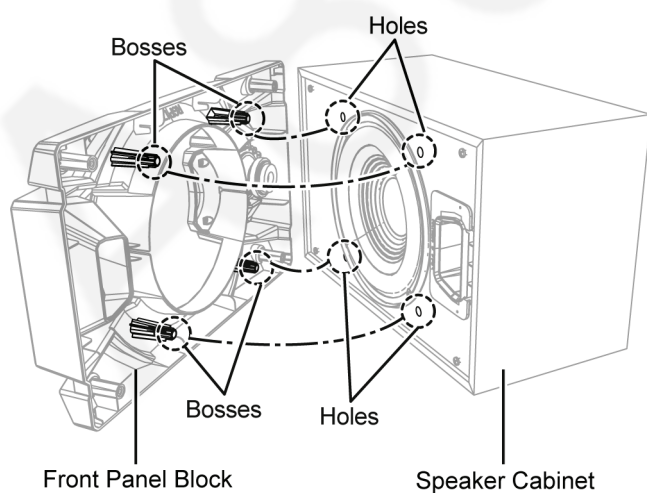


- Step 6 :** Detach speaker wire.
Step 7 : Lift up Himelon.
Step 8 : Detach 4P Socket.
Step 9 : Remove Front Panel Block.



During assembling, please do following

- Step 1 :** Remove and clean up the bosses and holes.
Step 2 : Align bosses of Front Panel Block to the holes of Speaker Cabinet.
Step 3 : Press Front Panel Block tightly.

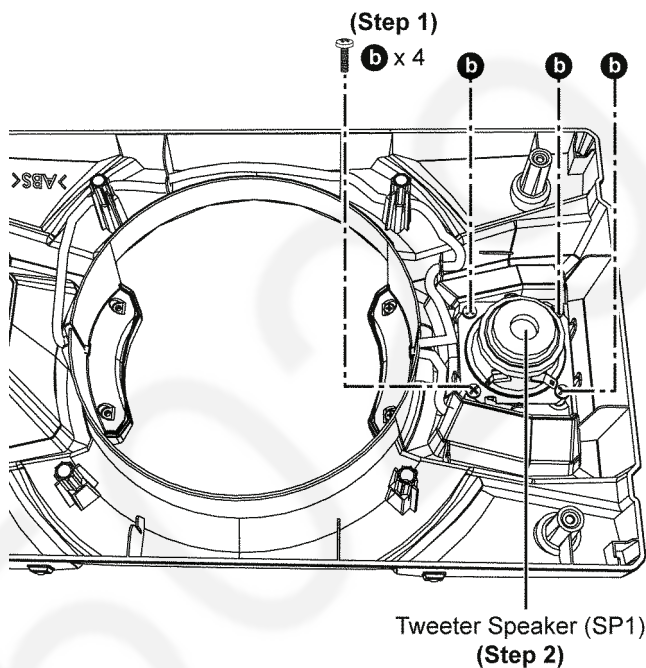


2.2.2. Disassembly of Tweeter Speaker (SP1)

- Refer to "Disassembly of Front Panel Block"

Step 1 : Remove 4 screws.

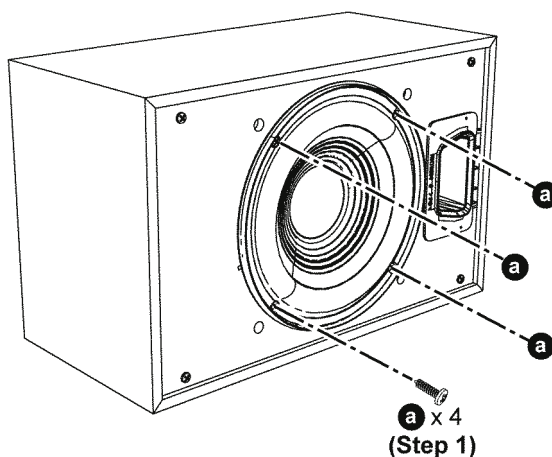
Step 2 : Remove Tweeter Speaker (SP1).



2.2.3. Disassembly of Woofer Speaker (SP2)

- Refer to "Disassembly of Front Panel Block"

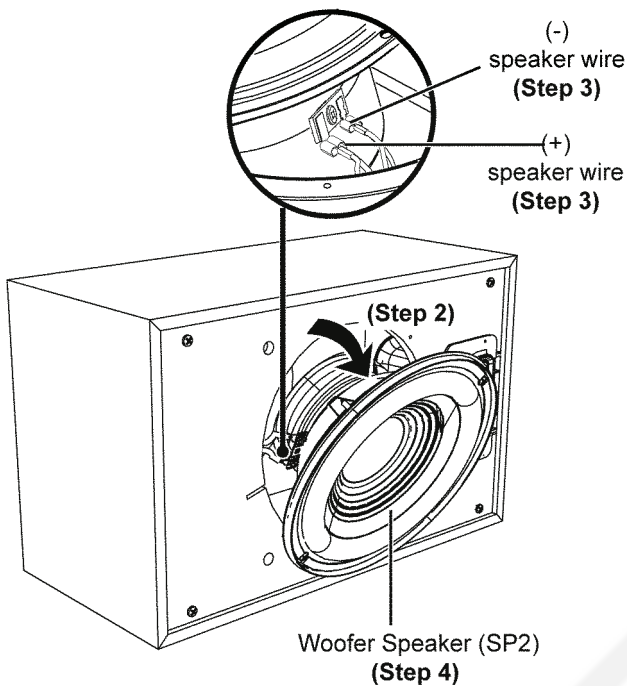
Step 1 : Remove 4 screws.



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

Step 3 : Detach speaker wire.

Step 4 : Remove Woofer Speaker (SP2).



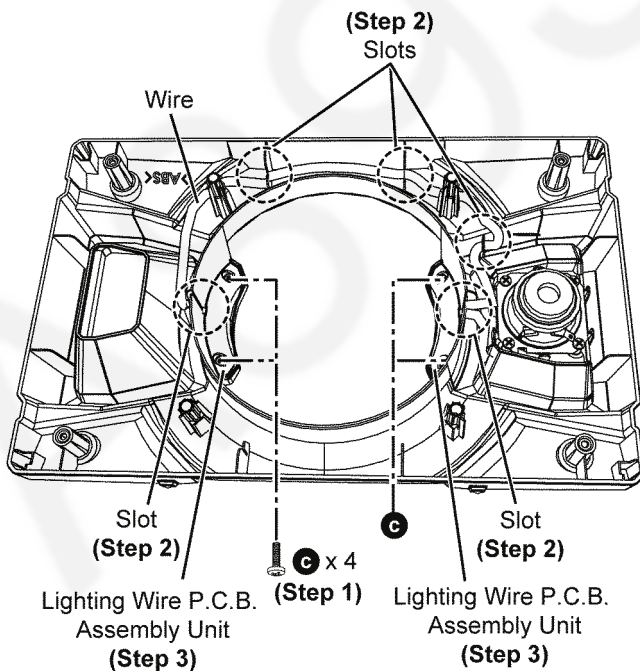
2.2.4. Disassembly of Lighting Wire P.C.B. Assembly

• Refer to "Disassembly of Front Panel Block"

Step 1 : Remove 4 screws.

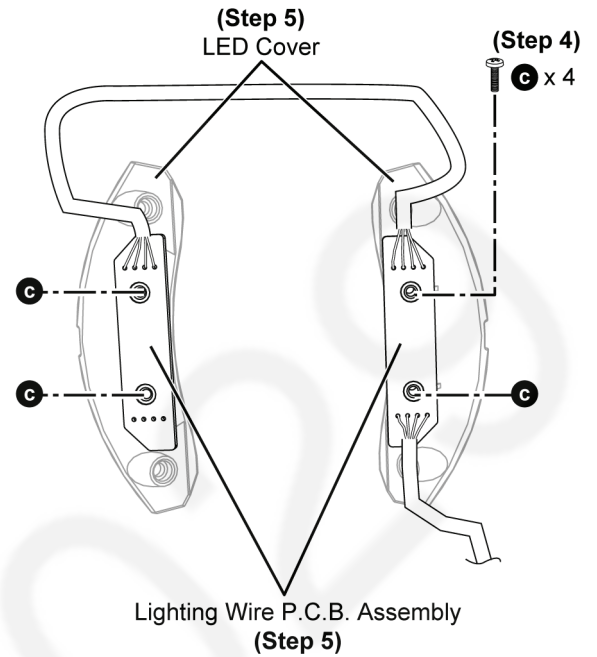
Step 2 : Release wire from slots.

Step 3 : Remove Lighting Wire P.C.B. Assembly Unit.



Step 4 : Remove 4 screws.

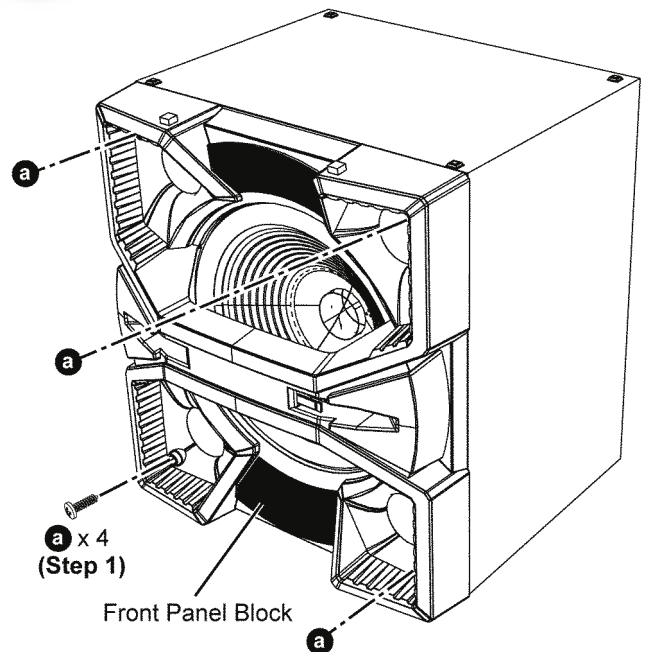
Step 5 : Remove Lighting Wire P.C.B. Assembly.



2.3. Subwoofer Speaker (SB-MAW7000PU/GS)

2.3.1. Disassembly of Front Panel Block

Step 1 : Remove 4 screws.



Step 2 : Insert flathead screwdriver into the grooves.

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

Step 4 : Apply light force to detach Front Panel Block.

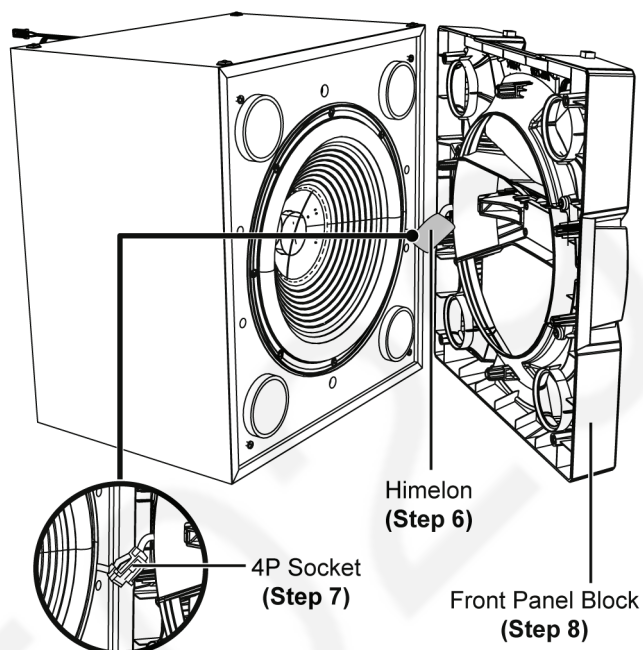
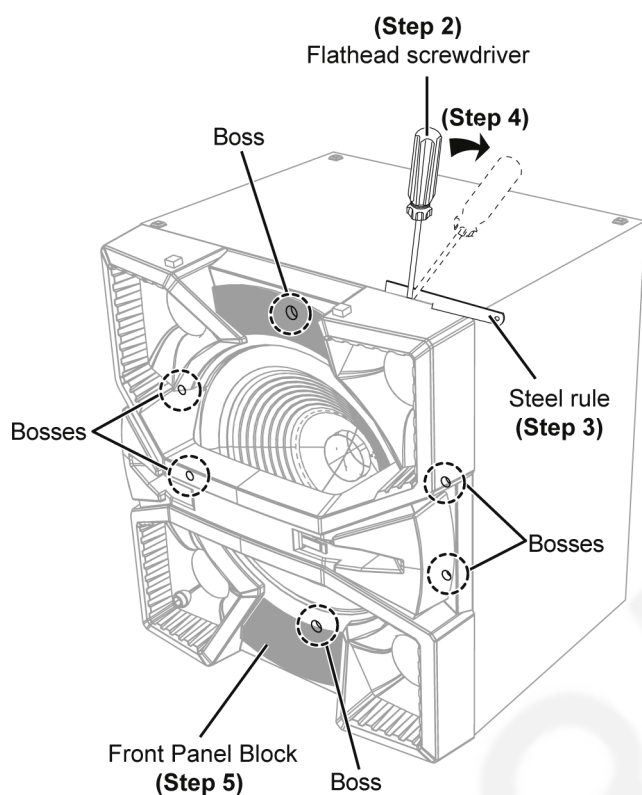
Caution : Do not exert strong force as it may damage Front Panel Block.

Step 5 : Detach Front Panel Block.

Step 6 : Lift up Himelon.

Step 7 : Detach 4P Socket.

Step 8 : Remove Front Panel Block.

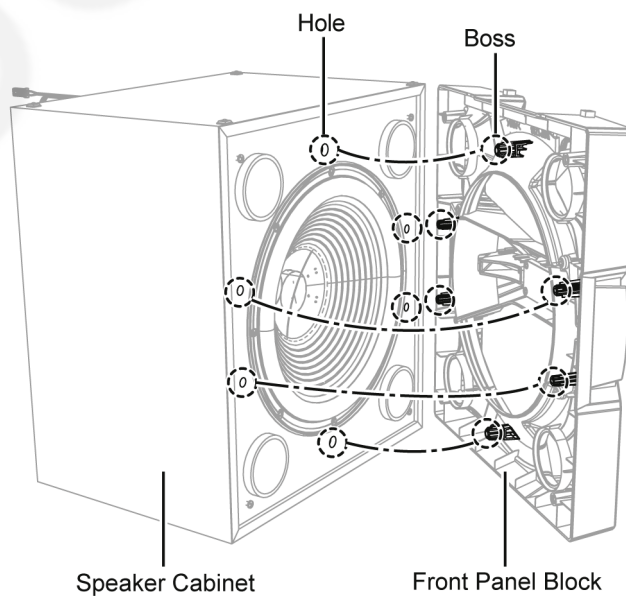


During assembling, please do following

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

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

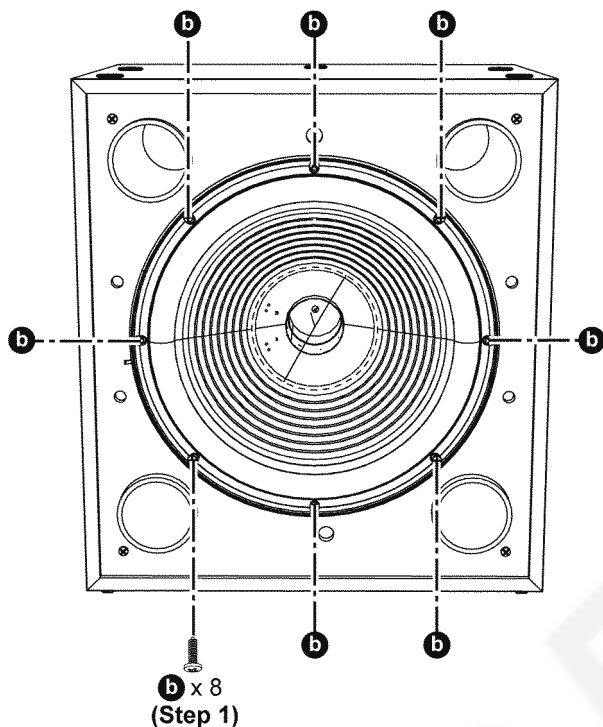
Step 3 : Press Front Panel Block tightly.



2.3.2. Disassembly of Subwoofer Speaker (SP3)

- Refer to "Disassembly of Front Panel Block"

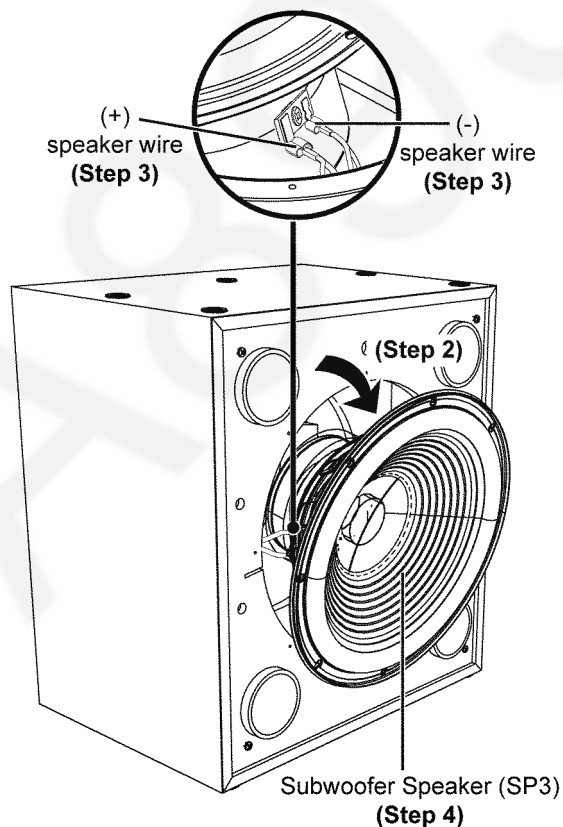
Step 1 : Remove 8 screws.



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

Step 3 : Detach speaker wire.

Step 4 : Remove Subwoofer Speaker (SP3).



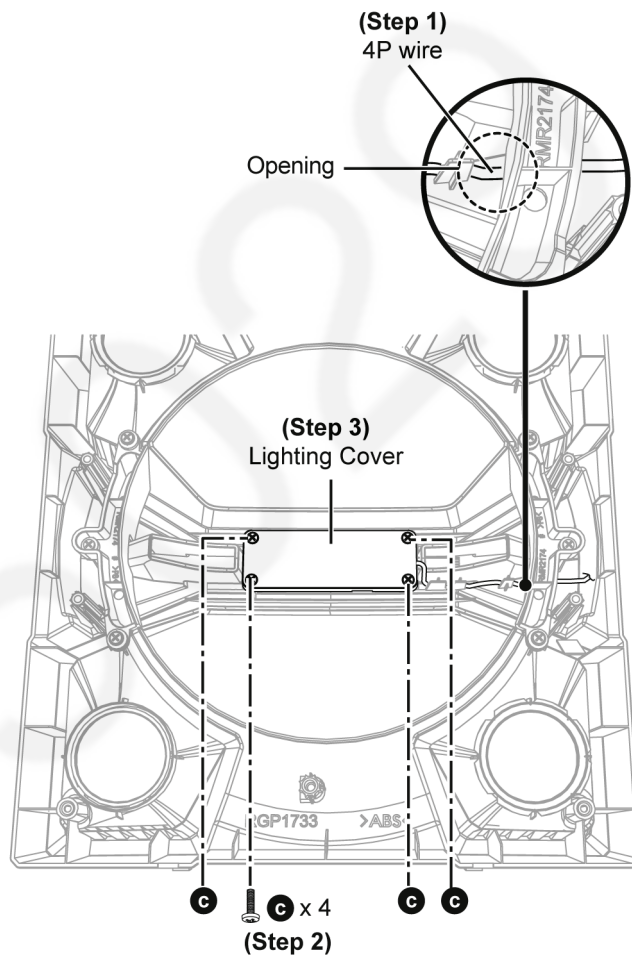
2.3.3. Disassembly of Lighting Wire P.C.B. Assembly

- Refer to "Disassembly of Front Panel Block"

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

Step 2 : Remove 4 screws.

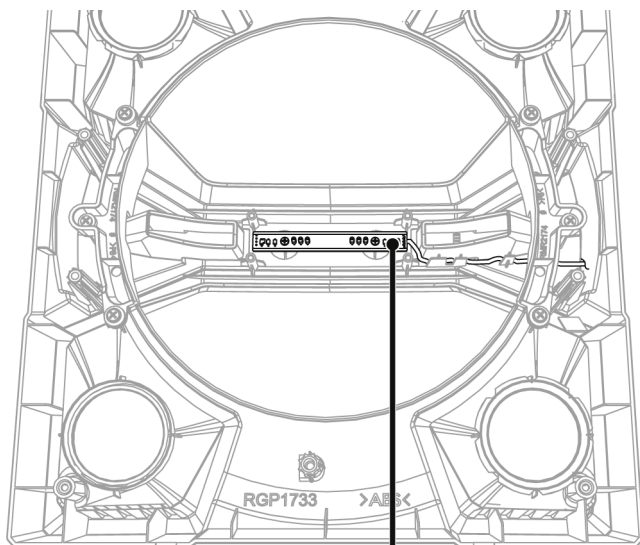
Step 3 : Remove Lighting Cover.



Step 4 : Release 4P wire from slots.

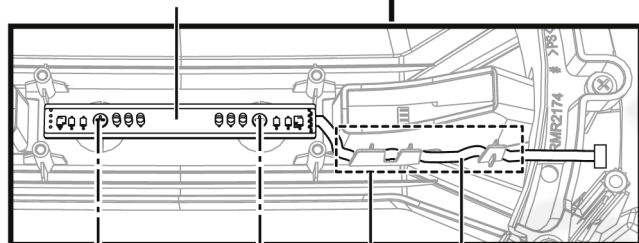
Step 5 : Remove 2 screws.

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



(Step 6)

Lighting Wire P.C.B. Assembly



d x 2
(Step 5)

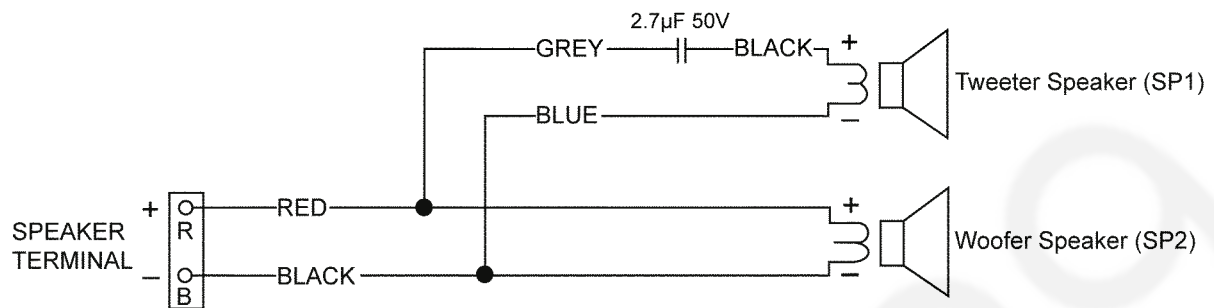
d

Slot

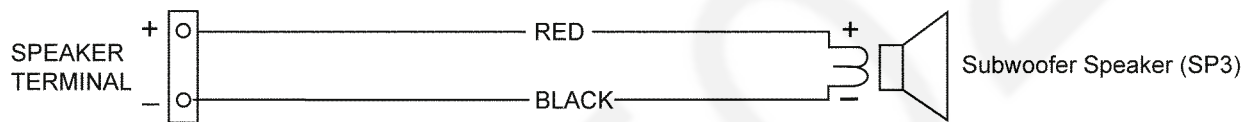
4P wire
(Step 4)

3 Wiring Connection Diagram

3.1. Speakers (SB-MAF7000PU/GS, SB-MAG7000PU/GS)



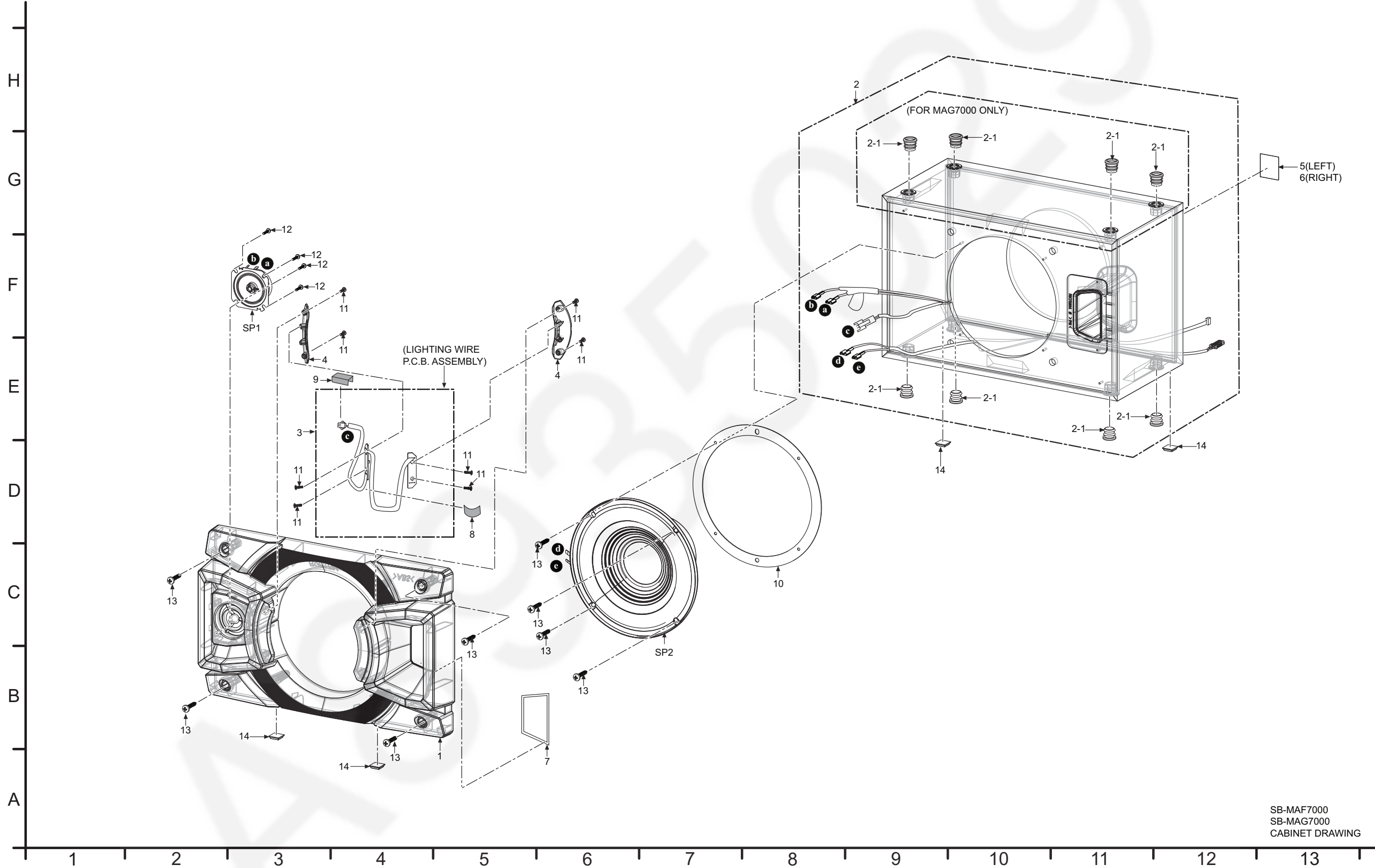
3.2. Subwoofer Speaker (SB-MAW7000PU/GS)



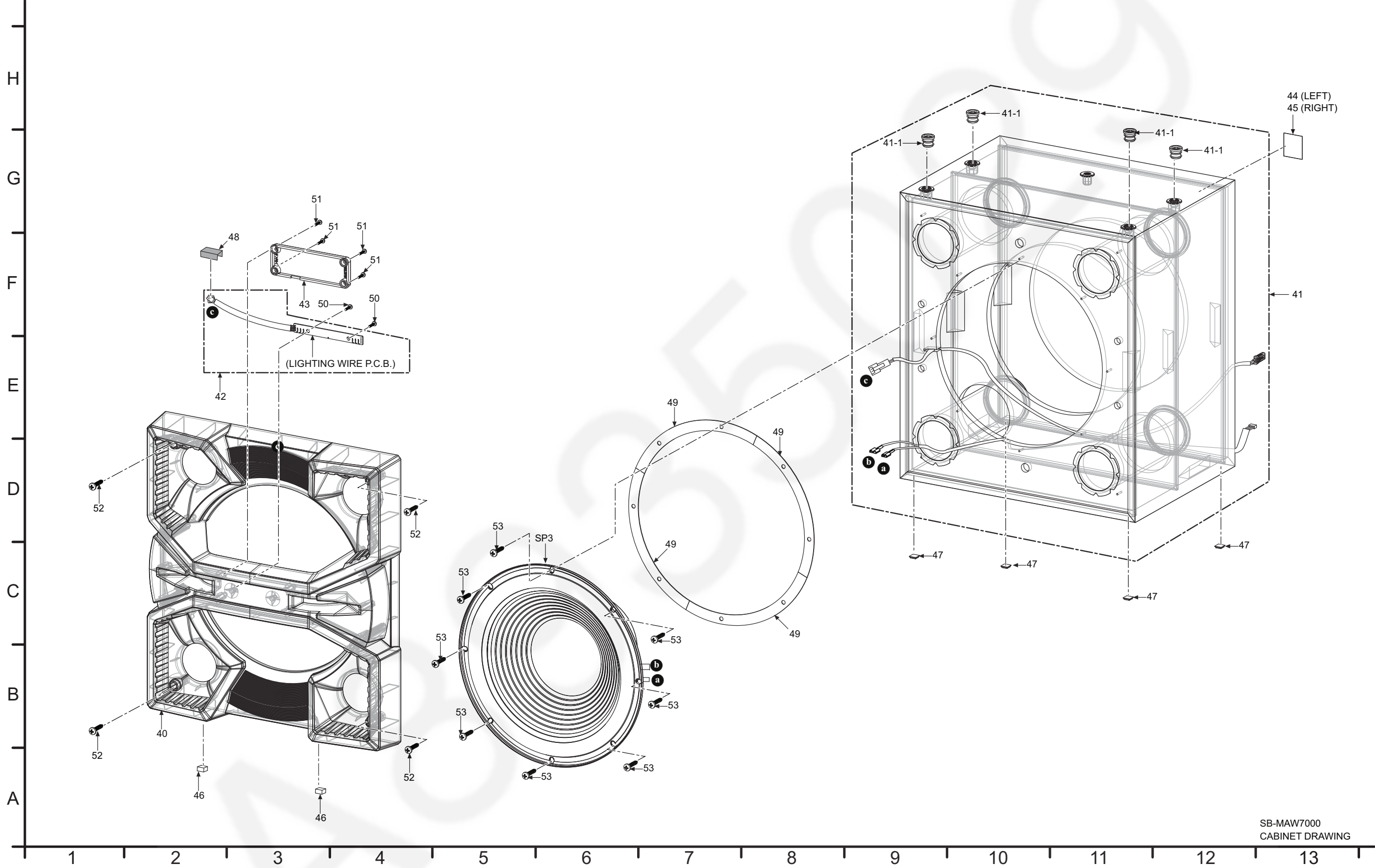
A8935029

4 Exploded View and Replacement Parts List

4.1. Cabinet Parts Location (SB-MAF7000PU/GS, SB-MAG7000PU/GS)

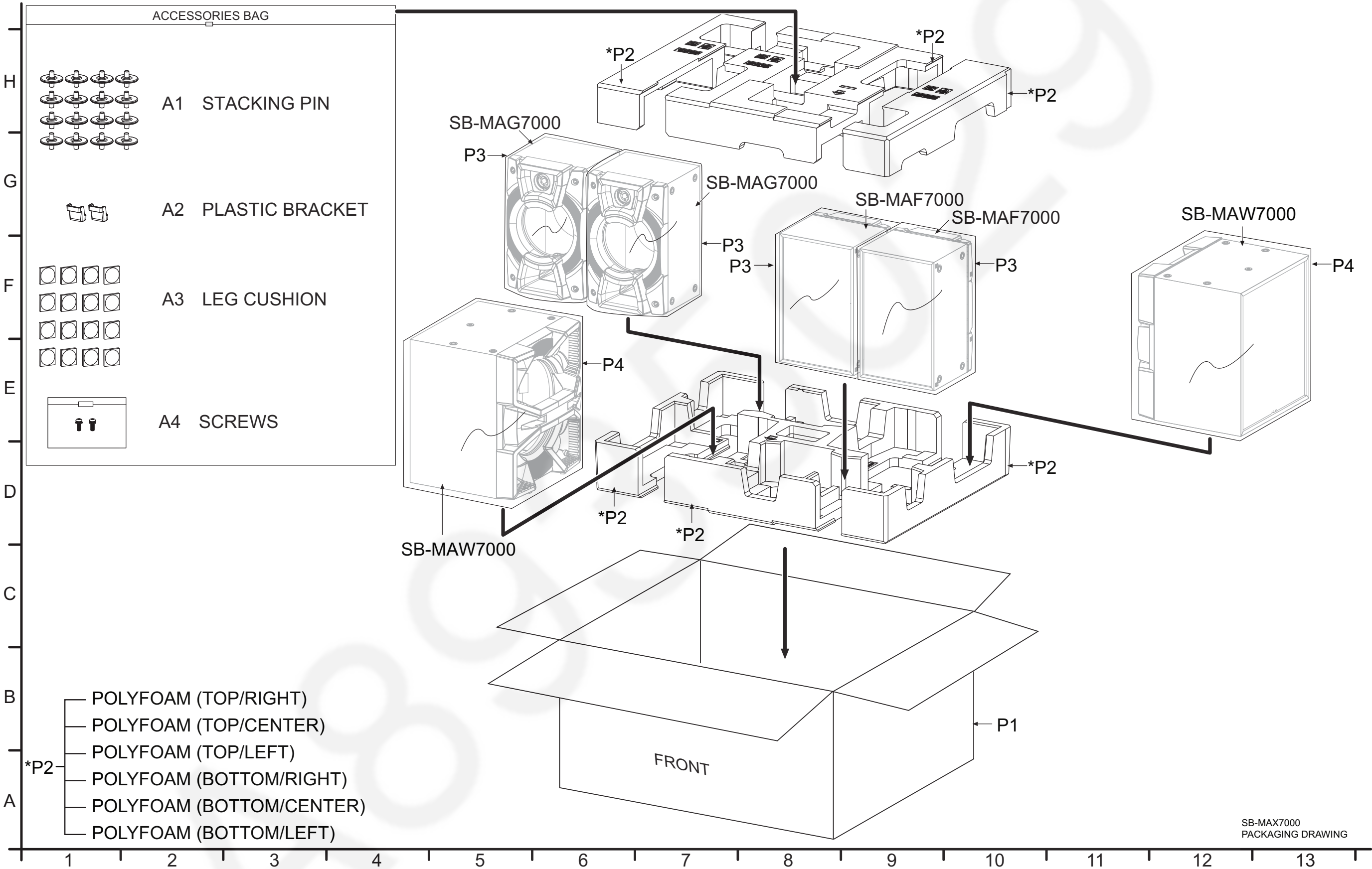


4.2. Cabinet Parts Location (SB-MAW7000PU/GS)



SB-MAW7000
CABINET DRAWING

4.3. Packaging (SB-MAX7000PU/GS)



4.4. 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.

4.4.1. SB-MAX7000GS

4.4.1.1. Speakers (SB-MAF7000, SB-MAG7000)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			CABINET & CHASSIS		
	1	RYP2077A-KJ	FRONT PANEL UPPER ASSY L/R (MAG)	1	
	2	RYQ1563F-K	WOODEN BOX ASSY L (MAG)	1	
	2	RYQ1563G-K	WOODEN BOX ASSY R (MAG)	1	
	2	RYQ1563D-K	WOODEN BOX ASSY L (MAF)	1	
	2	RYQ1563E-K	WOODEN BOX ASSY R (MAF)	1	
	2-1	RMG0520-K	NET HOLDER	4	(MAF)
	2-1	RMG0520-K	NET HOLDER	8	(MAG)
	3	REE2163	LIGHTING WIRE PCB ASS'Y	1	
	4	RGL0820-QJ	LED COVER	2	
	5	RGN3580-K	SPEC LABEL L (MAG)	1	
	5	RGN3581-K	SPEC LABEL L (MAF)	1	
	6	RGN3580A-K	SPEC LABEL R (MAG)	1	
	6	RGN3581A-K	SPEC LABEL R (MAF)	1	
	7	RMF0752	HIMELON PORT UPPER	1	
	8	RMF0781	HIMELON (LIGHTING WIRE PCB ASS'Y)	1	
	9	RMQ2070	EVA PACKING	1	
	10	RMQX0285-K	EVA PACKING	1	
	11	XTB3+10GFJK	SCREW	8	
	12	XTB4+10GFJ	SCREW	4	
	13	XTB4+16AFJK	SCREW	8	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	14	RKA0072-KJ	LEG CUSHION	4	
			SPEAKER UNITS		
	SP1	L0AA06A00118	TWEETER SPEAKER (6CM)	1	
	SP2	L0AA20A00041	WOOFER SPEAKER (20CM)	1	

4.4.1.2. Subwoofer Speakers (SB-MAW7000)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			CABINET & CHASSIS		
	40	RYP2080-K	FRONT PANEL LOWER ASSY L/R	1	
	41	RYQ1564A-K	WOODEN BOX ASSY L/R (MAW)	1	
	41-1	RMG0520-K	NET HOLDER	4	
	42	REE2159	LIGHTING WIRE P.C.B ASS'Y	1	
	43	RGL0818-Q	LIGHTING COVER	1	
	44	RGN3579-K	SPEC LABEL L (SB-MAW)	1	
	45	RGN3579A-K	SPEC LABEL R (SB-MAW)	1	
	46	RKA0229-K	LEG CUSHION	2	
	47	RKA0346-K	LEG CUSHION	4	
	48	RMQ2070	EVA PACKING	1	
	49	RMQ2431	EVA SHEET (FOR SP3)	4	
	50	XTB3+10GFJK	SCREW	2	
	51	XTB4+10GFJ	SCREW	4	
	52	XTB4+16AFJK	SCREW	4	
	53	XTB4+20AFJK	SCREW	8	
			SPEAKER UNIT		

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	SP3	L0AA30A00006	SUBWOOFER SPEAKER (30CM)	1	

4.4.1.3. Accessories and Packing Materials

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			PACKING MATERIALS		
	P1	RPG0S72	PACKING CASE	1	
	P2	RPN2725	POLYFOAM	1	
	P3	RPF0743	MIRAMAT BAG (FOR SB-MAF/MAG)	4	
	P4	RPF0744	MIRAMAT BAG (FOR SB-MAW)	2	
			ACCESSORIES (SB-MAX7000)		
	A1	RGQ0866-KJ	STACKING PIN	16	
	A2	RGQ0877-K	PLASTIC BRACKET	2	
	A3	RKA0072-KJ	LEG CUSHION	16	
	A4	XYN5+J14FJK	SCREW FOR WALL HOOK	2	

4.4.2. SB-MAX7000PU

4.4.2.1. Speakers (SB-MAF7000, SB-MAG7000)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			CABINET & CHASSIS		
	1	RYP2077A-KJ	FRONT PANEL UPPER ASSY L/R (MAG)	1	
	2	RYQ1563F-K	WOODEN BOX ASSY L (MAG)	1	
	2	RYQ1563G-K	WOODEN BOX ASSY R (MAG)	1	
	2	RYQ1563D-K	WOODEN BOX ASSY L (MAF)	1	
	2	RYQ1563E-K	WOODEN BOX ASSY R (MAF)	1	
	2-1	RMG0520-K	NET HOLDER	4	(MAF)
	2-1	RMG0520-K	NET HOLDER	8	(MAG)
	3	REE2163	LIGHTING WIRE PCB ASS'Y	1	
	4	RGL0820-QJ	LED COVER	2	
	5	RGN3598-K	SPEC LABEL L (MAG)	1	
	5	RGN3599-K	SPEC LABEL L (MAF)	1	
	6	RGN3598A-K	SPEC LABEL R (MAG)	1	
	6	RGN3599A-K	SPEC LABEL R (MAF)	1	
	7	RMF0752	HIMELON PORT UPPER	1	
	8	RMF0781	HIMELON (FOR LIGHTING WIRE)	1	
	9	RMQ2070	EVA PACKING	1	
	10	RMQX0285-K	EVA PACKING	1	
	11	XTB3+10GFJK	SCREW	8	
	12	XTB4+10GFJ	SCREW	4	
	13	XTB4+16AFJK	SCREW	8	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	14	RKA0072-KJ	LEG CUSHION	4	
			SPEAKER UNITS		
	SP1	L0AA06A00118	TWEETER SPEAKER (6CM)	1	
	SP2	L0AA20A00041	WOOFER SPEAKER (20CM)	1	

4.4.2.2. Subwoofer Speakers (SB-MAW7000)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			CABINET & CHASSIS		
	40	RYP2080-K	FRONT PANEL LOWER ASSY L/R	1	
	41	RYQ1564A-K	WOODEN BOX ASSY L/R (MAW)	1	
	41-1	RMG0520-K	NET HOLDER	4	
	42	REE2159	LIGHTING WIRE P.C.B ASS'Y	1	
	43	RGL0818-Q	LIGHTING COVER	1	
	44	RGN3597-K	SPEC LABEL L (SB-MAW)	1	
	45	RGN3597A-K	SPEC LABEL R (SB-MAW)	1	
	46	RKA0229-K	LEG CUSHION	2	
	47	RKA0346-K	LEG CUSHION	4	
	48	RMQ2070	EVA PACKING	1	
	49	RMQ2431	EVA SHEET (FOR SP3)	4	
	50	XTB3+10GFJK	SCREW	2	
	51	XTB4+10GFJ	SCREW	4	
	52	XTB4+16AFJK	SCREW	4	
	53	XTB4+20AFJK	SCREW	8	
			SPEAKER UNIT		
	SP3	L0AA30A00006	SUBWOOFER SPEAKER (30CM)	1	

4.4.2.3. Accessories and Packing Materials

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			PACKING MATERIALS		
	P1	RPG0S78	PACKING CASE	1	
	P2	RPN2725	POLYFOAM	1	
	P3	RPF0743	MIRAMAT BAG (FOR SB-MAF/MAG)	4	
	P4	RPF0744	MIRAMAT BAG (FOR SB-MAW)	2	
			ACCESSORIES (SB-MAX7000)		
	A1	RGQ0866-KJ	STACKING PIN	16	
	A2	RGQ0877-K	PLASTIC BRACKET	2	
	A3	RKA0072-KJ	LEG CUSHION	16	
	A4	XYN5+J14FJK	SCREW FOR WALL HOOK	2	