

Service Manual

Speaker System

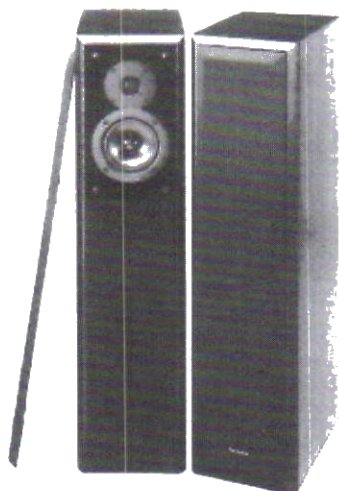
SB-M500M2

Hi-Fi Speaker System

Colour

(K) Black Type

(M) Wood Grain Type



SB-M500M2

SPECIFICATIONS

Type	3 way, 4 speaker system
Speaker	Woofer: Dual Dinamic Drive System 18 cm pasive radiator 14cm cone type driver unit Midrange: 14 cm cone type Tweeter: 2,5 cm dome type
Impedance	6 Ω
Input power	160 W (MUSIC) 80 W (DIN)
Output sound pressure level	86db/W (1.0 m)
Cross over frequency	90Hz, 2,5kHz
Frequency range	35Hz - 70kHz (-16 dB) 41Hz - 55kHz (-10 dB)
Dimensions (W x H x D)	214 x 890 x 365 mm
Weight	18,5 kg

Notes :

Specifications are subject to change without notice.
Weight and dimensions are approximate.

ESPECIFICACIONES

Tipo	Sistema con 3 vías, 4 altavoces
Altavoces	Graves: Dual Dinamic Drive System Radiador pasivo de 18 cm Activo tipo cónico de 14 cm Medios: 14 cm tipo cónico Agudos : 2,5 cm tipo cúpula
Impedancia	6 Ω
Capacidad de potencia	160W (Músicas) 80W (DIN)
Nivel de presión acústica de salida	86 dB/W (1.0 m)
Frecuencia de cruce	90 Hz, 2,5 kHz
Respuesta de frecuencias	35Hz - 70kHz (-16 dB) 41Hz - 55kHz (-10 dB)
Dimensiones (W x H x D)	214 x 890 x 365 mm
Peso	18,5 kg

Nota:

Estas especificaciones están sujetas a cualquier cambio.
Peso y dimensiones son aproximados.

SPECIFICATIONS

Type	3-voies , 4-haut-parleurs
Haut-parleurs	Graves: Dual Dinamic Drive System 18 cm diffuseur pasive 14cm type a cone excitateur active Moyennes: 14 cm type a cone Aguis: 2,5 cm type dome
Impédance	6 Ω
Entrée maximale	160 W (Musique) 80W(DIN)
Niveau de pression sonore de sortie	86 dB/W (1.0 m)
Fréquence de commutation	90 Hz, 2,5 kHz
Gamme de fréquences	35Hz - 70kHz (-16 dB) 41Hz - 55kHz (-10 dB)
Dimensions (W x H x D)	214 x 890 x 365 mm
Poids	18,5kg

Notes :

Sujet à changement sans preavis.
Poids et dimensions sont approximatifs.

WARNING

This service information is designed for experience 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.

Technics®

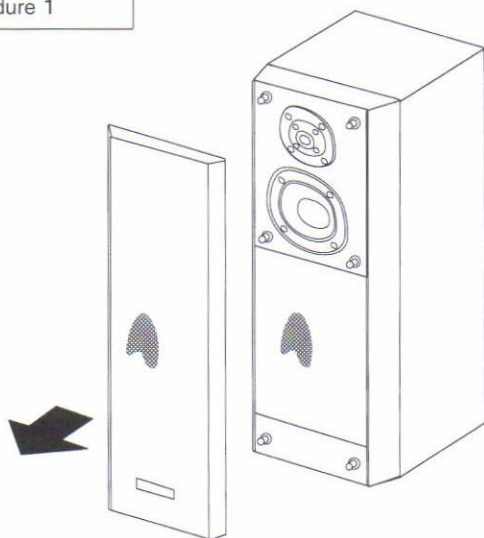
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DISASSEMBLY INSTRUCTIONS

Ref. No. 1

Removal of the Speaker Net

Procededure 1



- Remove the Speaker Net in the direction of arrow.

Ref. No. 2

Removal of the Speaker Midrange

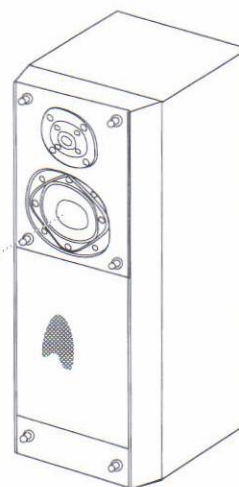
Procededure 1 → 2

- Step 2**
- Remove the Speaker Ornament

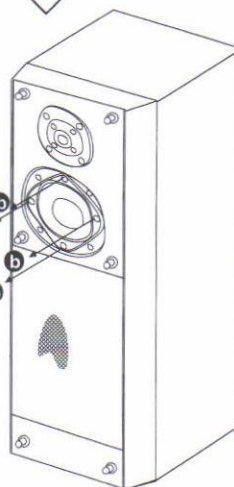
- Step 1**
- Remove the 4 screws



Hexagonal Wrench (4mm)



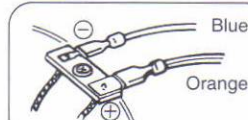
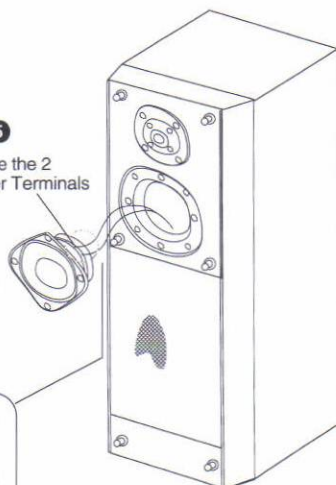
- Step 3**
- Remove the 4 screws

**Step 5**

- Remove the 2 Speaker Terminals

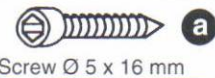
Step 4

- Remove the Speaker Midrange in the direction of front part

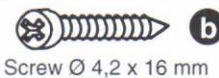


Blue

Orange



Screw Ø 5 x 16 mm



Screw Ø 4,2 x 16 mm

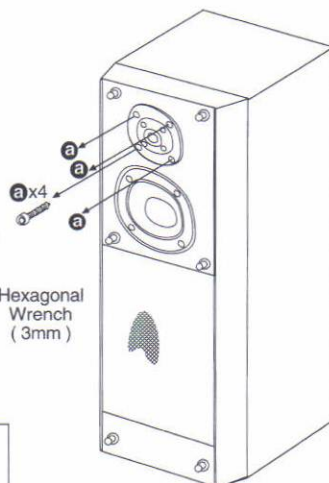
Ref. No. 3

Removal of the Speaker Tweeter

Procededure 1 → 3

Step 1

- Remove the 4 screws



Hexagonal Wrench (3mm)



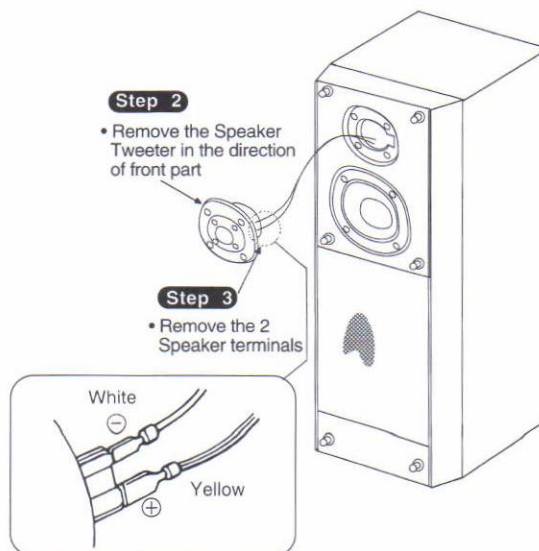
Screw Ø 4 x 16 mm

Step 2

- Remove the Speaker Tweeter in the direction of front part

Step 3

- Remove the 2 Speaker terminals



White

Yellow

Ref. No. 4

Removal of the Front Panel

Procededure 1 → 4

Step 1

- Remove the 4 Catch Pin

■ Removal of the Catch Pin

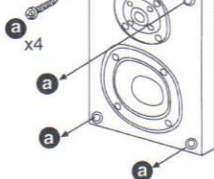
Put the tape in Catch Pin

Step 2

- Remove the 4 Net Holder

Step 3

- Remove the 4 screws



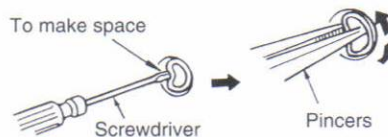
Absorber

Step 4

- Remove the Front Panel in the direction of front part

ATTENTION

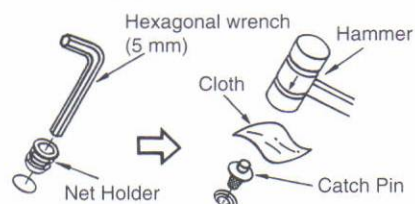
This absorber should cover the cables of the connection with the Speaker Midrange. So that they don't touch the cavity.

■ Removal of the Net Holder

1. To use a screwdriver and make space between the front panel and the Net Holder.
 2. To insert the pincers type point and take the Net Holder to rotate.
- ※ Pay attention not to break the Net Holder. Please, they stock the Net Holder. (SHG8G9044).

■ Inserting the Net Holder and Catch Pin

1. Insert the Net Holder using the 5 mm type hexagonal wrench or similar tool like rod.
2. After inserting the Catch Pin, press the Catch Pin covering with cloth using the hammer or screwdriver grip.

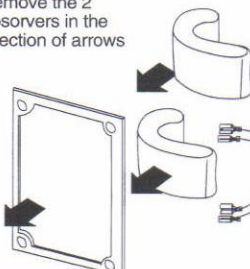
**a**

Screw Ø 4,2 x 25 mm

Ref. No. 5	Removal of the Network Ass'y
Procededure 1 → 2 → 3 → 4 → 5	

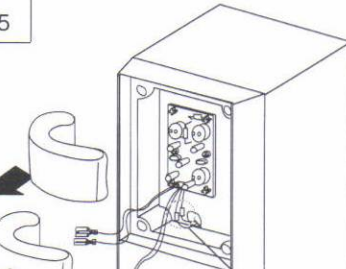
Step 1

- Remove the gasket Front Panel in the direction of arrow



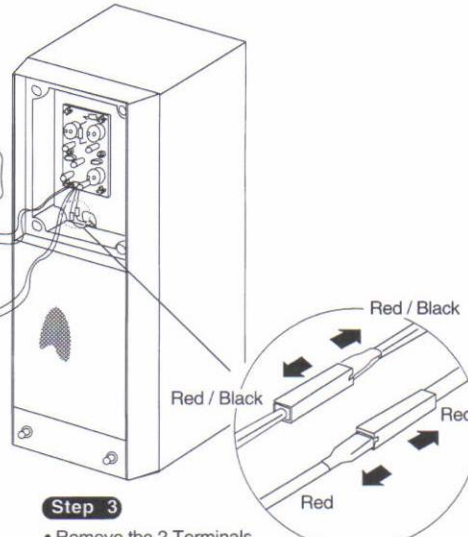
Step 2

- Remove the 2 Absorbers in the direction of arrows



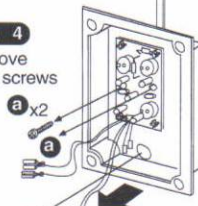
Step 3

- Remove the 2 Terminals



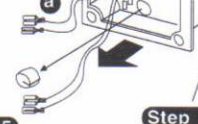
Step 4

- Remove the 2 screws



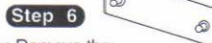
Step 5

- Remove the Cavity and gasket in the direction of arrow



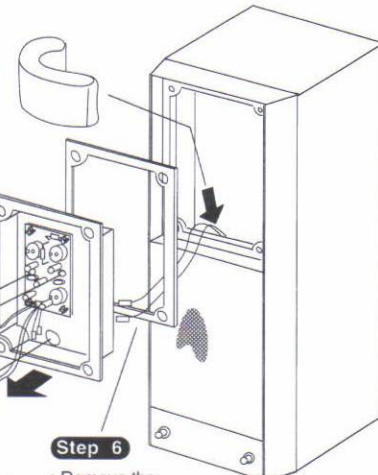
Step 6

- Remove the gasket Cavity



Step 7

- Remove the Absorber





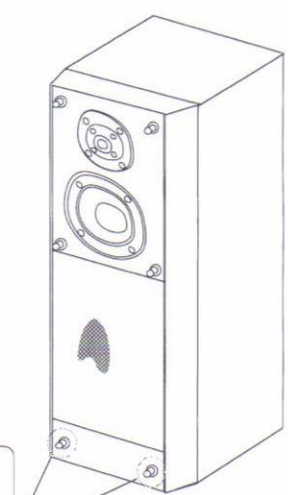
a

Screw Ø 4,2 x 8 mm

Ref. No. 6	Removal of the Speaker Woofer Frontal
Procededure 1 → 6	

Step 1

- Remove the 2 Catch Pin



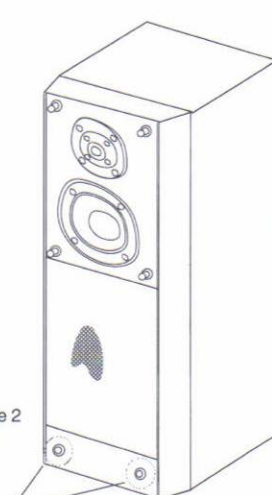
■ Removal of the Catch Pin



Put the tape in Catch Pin

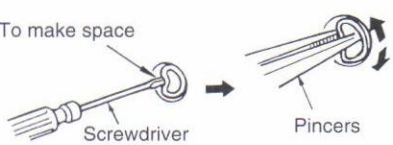
Step 2

- Remove the 2 Net Holder



■ Removal of the Net Holder

To make space



Screwdriver Pincers

- To use a screwdriver (⊖) and make space between the front panel and the Net Holder.
- To insert the pincers type point and take the Net Holder to rotate.

※ Pay attention not to break the Net Holder. Please, they stock the Net Holder. (SHG8G9044).

■ Inserting the Net Holder and Catch Pin

- Insert the Net Holder using the 5 mm type hexagonal wrench or similar tool like rod.
- After inserting the Catch Pin, press the Catch Pin covering with cloth using the hammer or screwdriver grip.

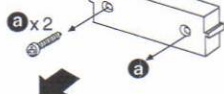
- 4 -

Step 4

- Remove the Ornament Frontal in the direction of arrow

Step 3

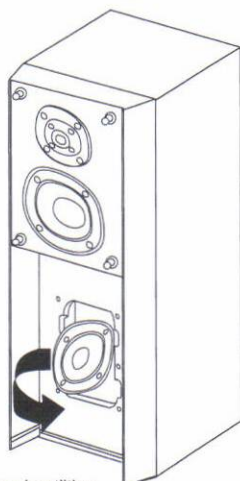
- Remove the 2 screws

**Step 8**

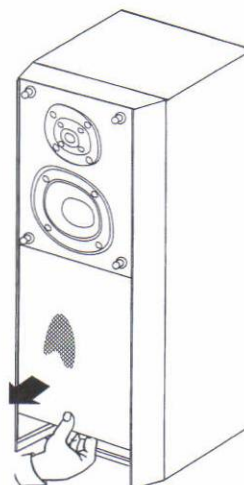
- Remove the 4 screws

**Step 9**

When remove the speaker tilting it as indicated in this picture

**Step 5**

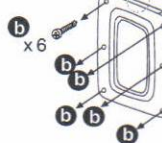
- Remove the Net Frame in the direction of arrow

**ATTENTION**

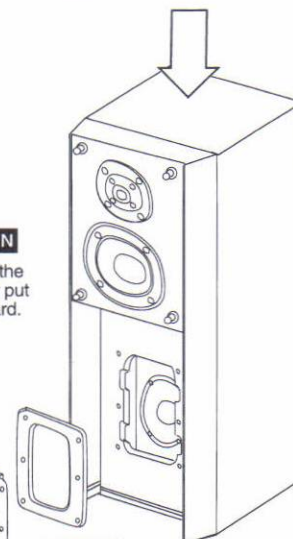
- When assembly the Passive Radiator put UP mark to upward.

Step 6

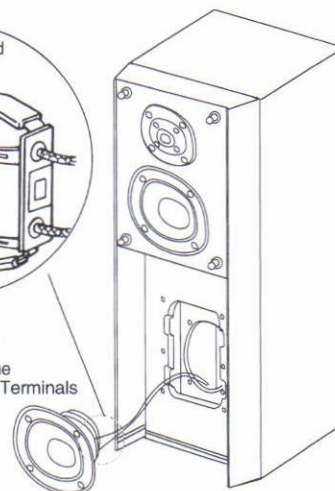
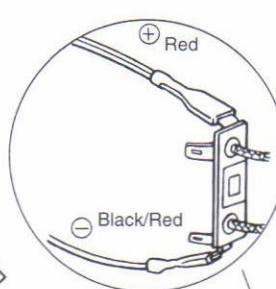
- Remove the 6 screws

**Step 7**

- Remove the Passive Radiator and gasket.

**Step 10**

- Remove the 2 Speaker Terminals



Screw Ø 4,2 x 25 mm



Screw Ø 4,2 x 25 mm



Screw Ø 4,2 x 20 mm

Ref. No. 7

Removal of the Speaker Woofer Rear

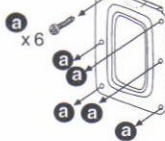
Procededure 7

ATTENTION

- When assembly the Passive Radiator put UP mark to upward.

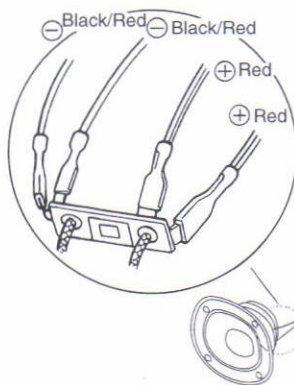
Step 1

- Remove the 6 screws



Step 2

- Remove the Passive Radiator and gasket.

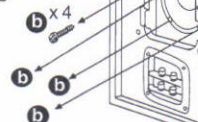


Step 5

- Remove the 4 Speaker Terminals

Step 3

- Remove the 4 screws



Step 4

When remove the speaker tilting it as indicated in this picture



Screw Ø 4,2 x 25 mm Screw Ø 4,2 x 20 mm

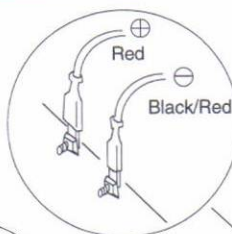
Ref. No. 8

Removal of the Terminal Block

Procededure 8

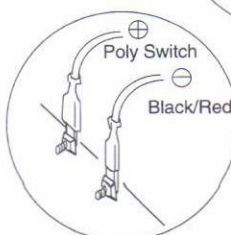
Step 2

- Remove the 2 Terminals HF



Step 3

- Remove the 2 Terminals LF



Step 1

- Remove the 4 screws



Screw Ø 4,2 x 25 mm

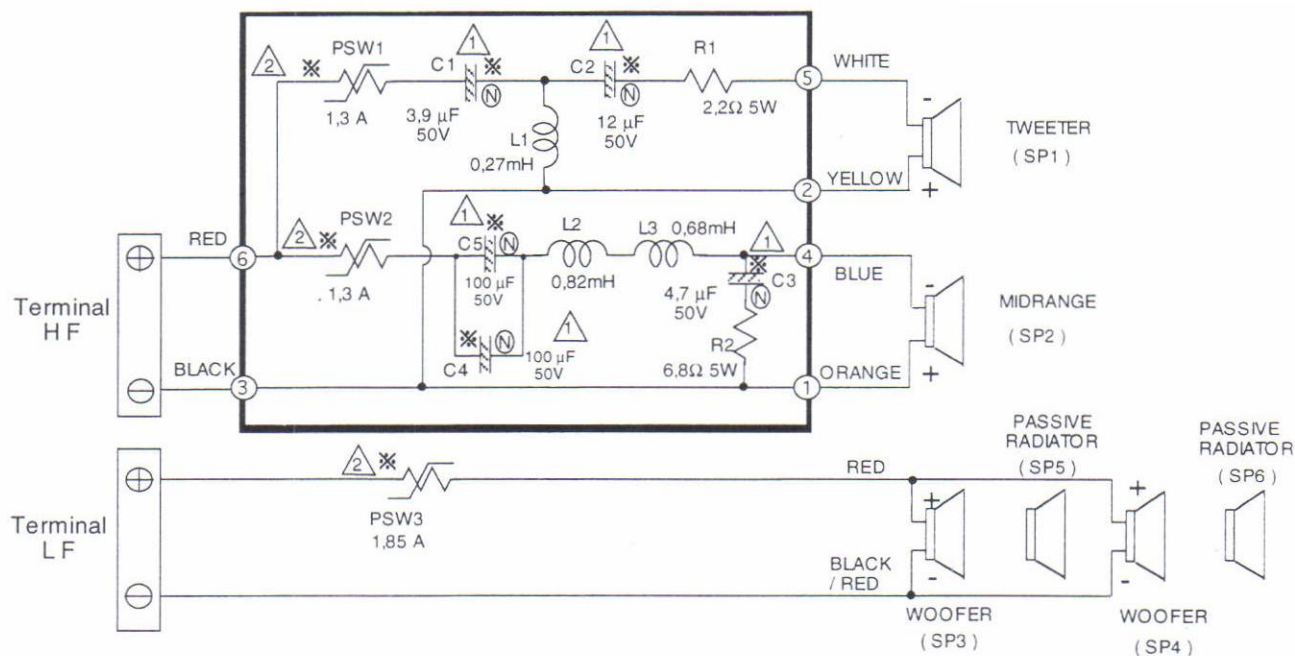
SCHEMATIC DIAGRAM

(This schematic diagram may be modified at any time with development of new technology.)

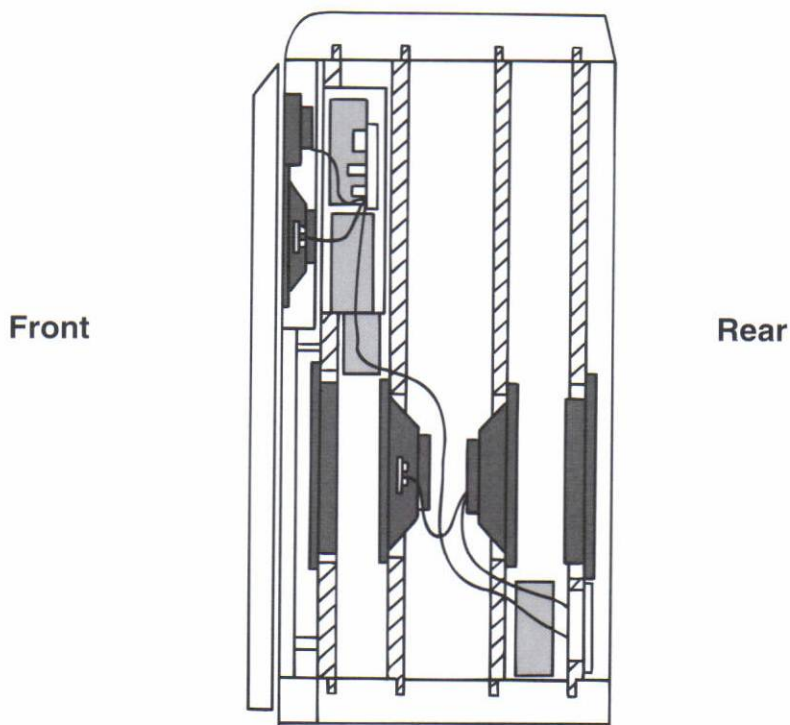
(Este esquema puede ser modificado en cualquier momento con el desarrollo de nuevas tecnologías.)

△ → ※ (N) NON POLAR CAPACITOR

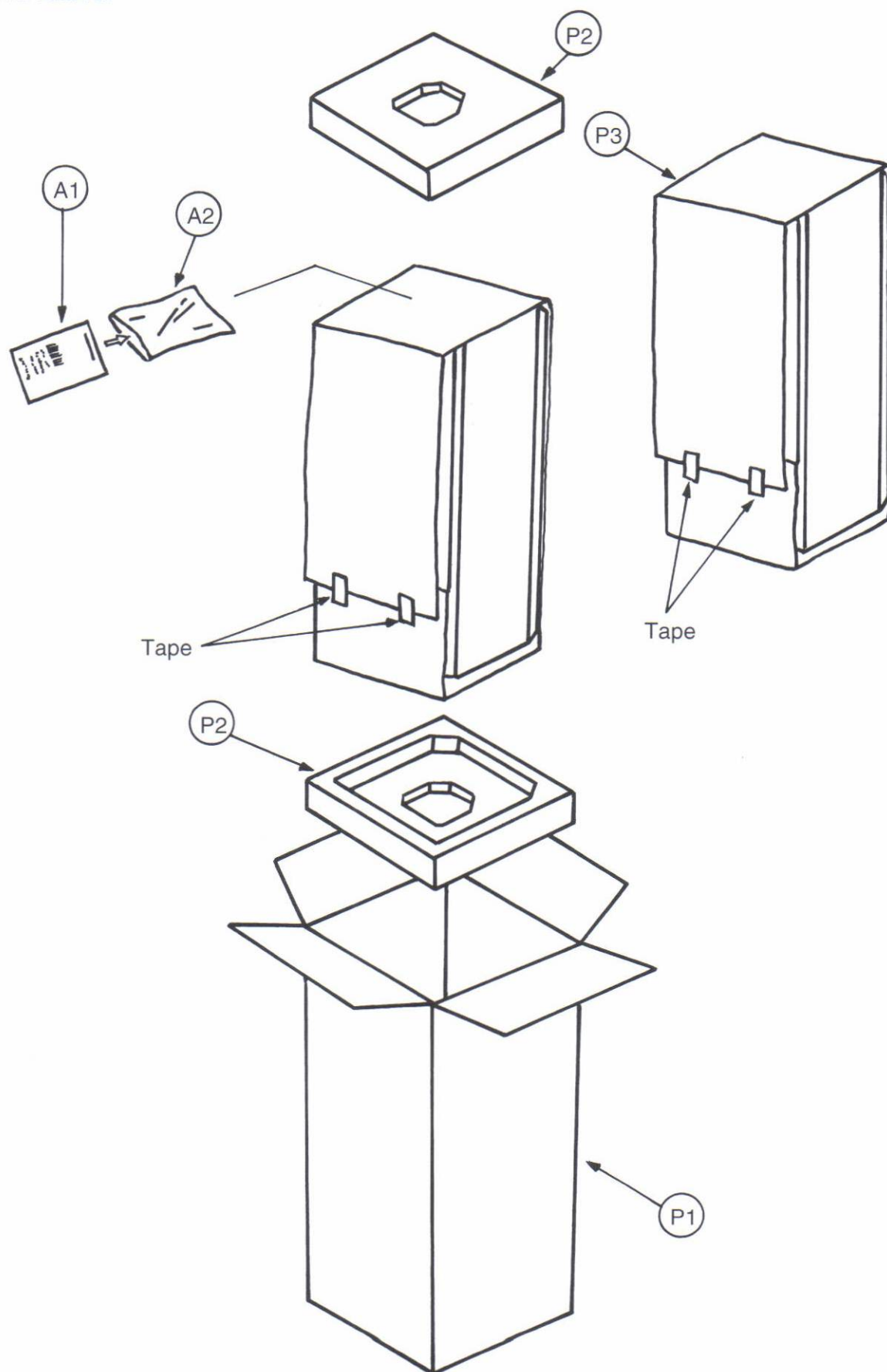
△ → ※ POLY SWITCH



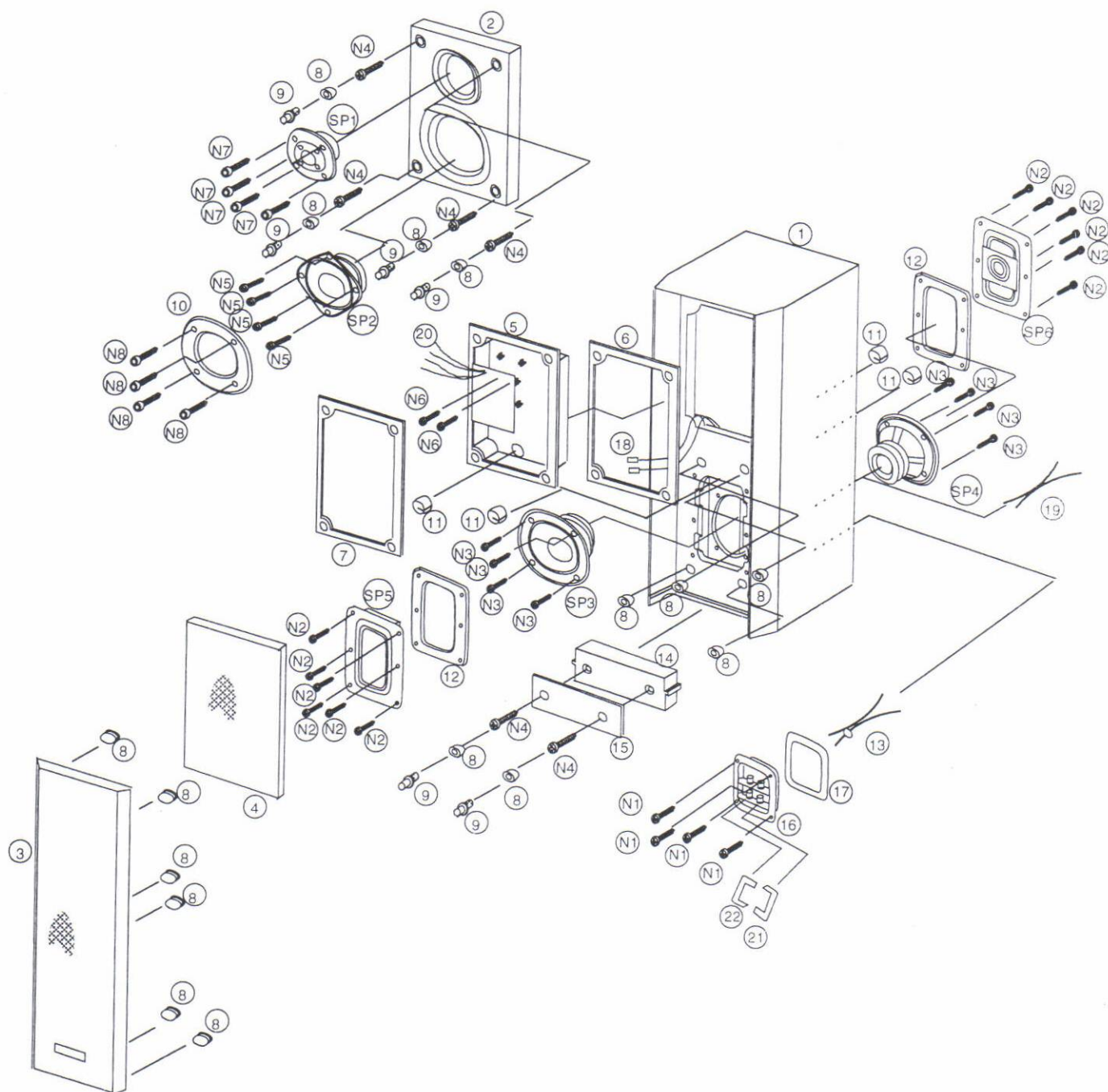
SECTION VIEW



■ PACKAGING



EXPLODED VIEW



■ Replacement Parts List

- Notes 1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
 2. MAES indicates parts that are supplied by MAES.
- Nota 1. El código está indicado en la mayoría de las piezas. Por favor use este código para sus pedidos.
 2. La indicación MAES significa recambios suministrados a través de MAES.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		SPEAKER (S)		8	SHG8G9044	NET HOLDER	MAES
SP1	EAST25KH05A6	TWEETER	MAES	9	RMQP0455-2	CATCH PIN	MAES
SP2	EAST12PL12A6	MIDRANGE	MAES	10	RGKP0719KE	ORNAMENT MIDRANGE	MAES
SP3	EAST14PL12A6	WOOFER	MAES	11	SHGS8G9071	GASKET	MAES
SP4	EAST14PL12A6	WOOFER	MAES	12	RMQP0589A	GASKET PASSIVE RADIATOR	MAES
SP5	EAST18SY03A6	PASSIVE RADIATOR	MAES	13	REXPM300M2WT	CABLE L.F ASS'Y	MAES
SP6	EAST18SY03A6	PASSIVE RADIATOR	MAES	14	RGQP0251-K	BASEBOARD	MAES
		COIL(S)		15	RGKP1095-K	ORNAMENT BASEBOARD	MAES
L1	SLCP271J7	CHOQUE COIL 0,27mH	MAES	16	REJ0076	BASE TERMINAL	MAES
L2	SLCP821J7	CHOQUE COIL 0,82mH	MAES	17	RMQP0589B	GASKET BASE TERMINAL	MAES
L3	SLCP681J7	CHOQUE COIL 0,68mH	MAES	18	REXPM500A	CABLE H.F	MAES
		CAPACITOR (S)		19	REXPM500W	INTERCONEXION CABLE	MAES
C1	ECEA1JPY3R9E	CAPACITOR 3,9μF 50V	MAES	20	SXPPM500M2	NETWORK ASS'Y	MAES
C2	ECEA50YT12KE	CAPACITOR 12μF 50V	MAES	21	RJR0155	SHORT BAR +	MAES
C3	ECEA50YT4R7KE	CAPACITOR 4,7μF 50V	MAES	22	RJR0156	SHORT BAR -	MAES
C4	ECEA50YT100KE	CAPACITOR 100μF 50V	MAES			SCREW(S)	
C5	ECEA50YT100KE	CAPACITOR 100μF 50V	MAES	N1	XTNP42+25FG	SCREW TERMINAL BLOCK	MAES
		RESISTOR (S)		N2	XTN42+25FG	SCREW PASSIVE RADIATOR	MAES
R1	ERX5SJ2R7P	RESISTOR 2,7Ω 5W	MAES	N3	XTN42+20	SCREW WOOFER	MAES
R2	ERX5SJ6R8P	RESISTOR 6,8Ω 5W	MAES	N4	XTN42+25	SCREW FRONT PANEL	MAES
		POLY SWITCH		N4	XTN42+25	SCREW BASE BOARD	MAES
PSW1	RRSSPK130	POLY SWITCH 1,3A	MAES	N5	XTN42+16	SCREW MIDRANGE	MAES
PSW2	RRSSPK130	POLY SWITCH 1,3A	MAES	N6	XTBS42BZ+8	SCREW NETWORK ASS'Y	MAES
PSW3	SSBSRXE185	POLY SWITCH 1,8A	MAES	N7	SNES4+16FG	SCREW TWEETER	MAES
		CABINET ASS'Y		N8	SNES5+16FG	SCREW ORNAMENT MID.	MAES
1	SYMPM500M2M	CABINET ASS'Y (-M)	MAES			ACCESORIES	
1	SYMPM500M2K	CABINET ASS'Y (-K)	MAES	A 1	RQT5060-E	INSTRUCTION BOX	MAES
2	RYBP0203	FRONT PANEL	MAES	A 2	XZBA4	BAG	MAES
3	SYBPM500M2AM	NET FRAME(OUTSIDE)-M	MAES			PACKING PARTS	
3	SYBPM500M2AK	NET FRAME(OUTSIDE)-K	MAES	P1	RPG4471	CARTON BOX(-K)	MAES
4	SYBPM500M2BK	NET FRAME(INSIDE)	MAES	P1	RPG4470	CARTON BOX(-M)	MAES
5	RMRP0993	CAVITY	MAES	P2	SPSPM500M2	PAD	MAES
6	RMQP0602	GASKET CAVITY	MAES	P3	SPHP23045	SHEET	MAES
7	RMQP0588A-1	GASKET FRONT PANEL	MAES				