

Service Manual

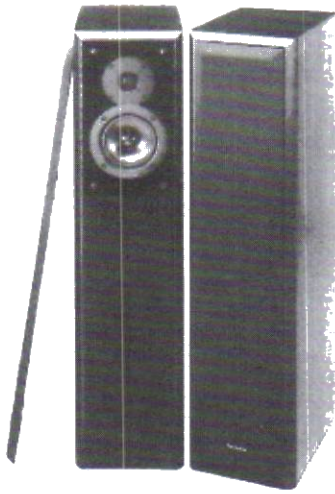
Speaker System

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 :

Subject à changement sans preavis.
Poids et dimensions sont aproximatifs.

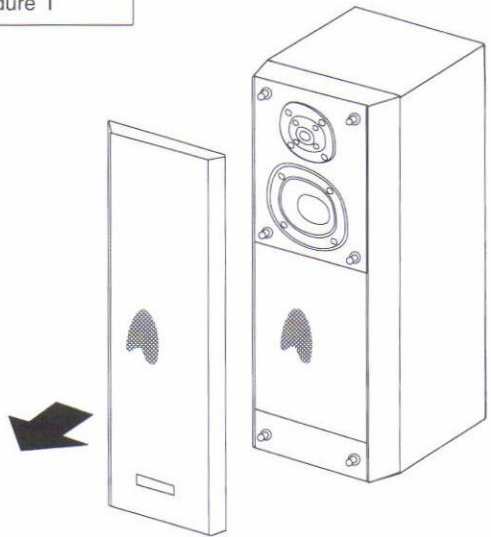
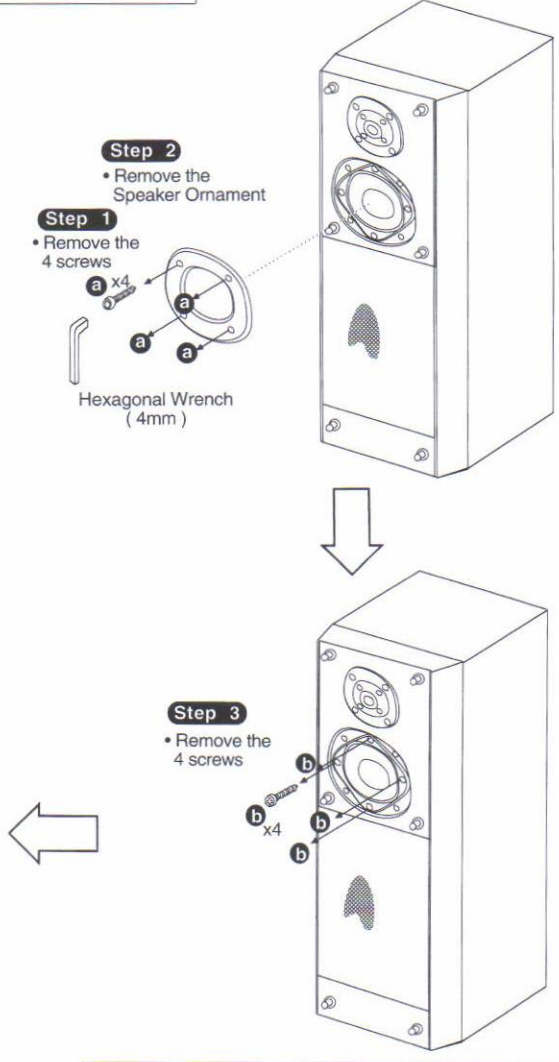

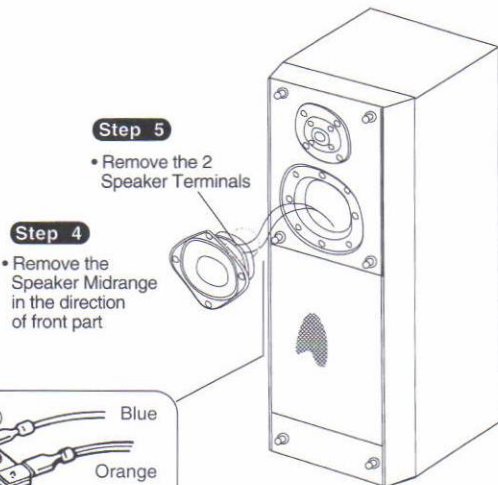
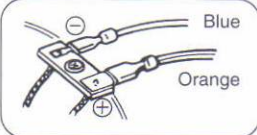
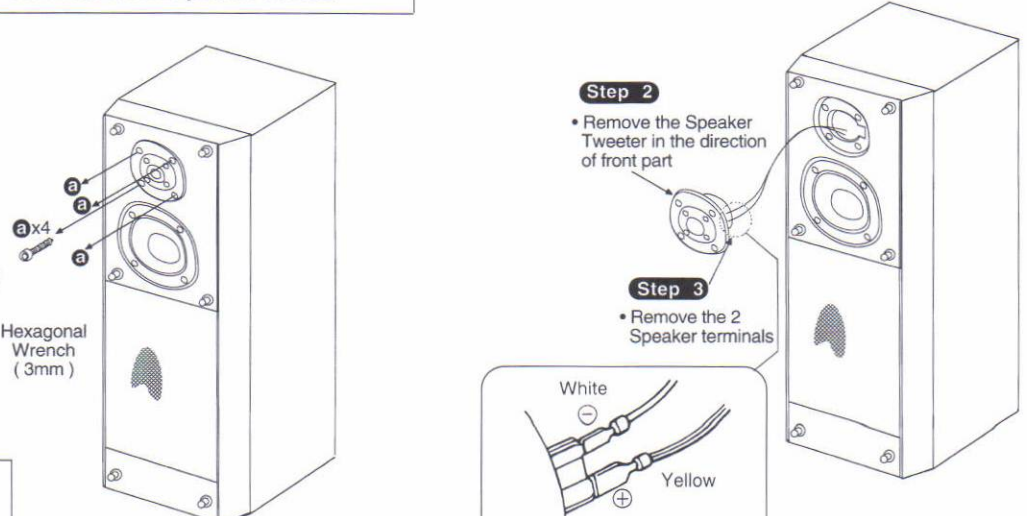
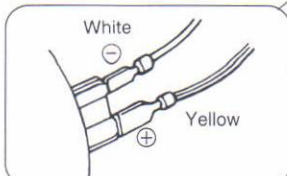

⚠ WARNING

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®

© 1999 Matsushita Electric España, S.A.
All rights reserved. Unauthorized copying and distribution is a violation of law.

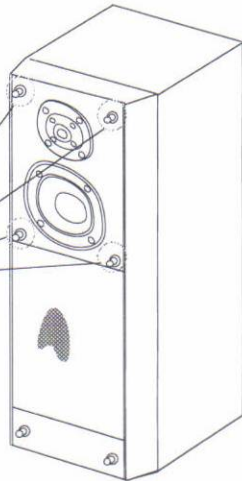
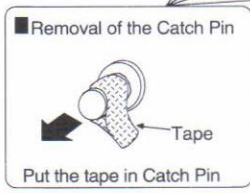
DISASSEMBLY INSTRUCTIONS

Ref. No. 1	Removal of the Speaker Net	Ref. No. 2	Removal of the Speaker Midrange
Procededure 1	 <ul style="list-style-type: none"> Remove the Speaker Net in the direction of arrow. 	Procededure 1 → 2	 <ul style="list-style-type: none"> Step 1 <ul style="list-style-type: none"> Remove the 4 screws Step 2 <ul style="list-style-type: none"> Remove the Speaker Ornament Step 3 <ul style="list-style-type: none"> Remove the 4 screws 
Ref. No. 3	 <ul style="list-style-type: none"> Step 4 <ul style="list-style-type: none"> Remove the Speaker Midrange in the direction of front part Step 5 <ul style="list-style-type: none"> Remove the 2 Speaker Terminals 	Ref. No. 3	 <ul style="list-style-type: none"> Step 1 <ul style="list-style-type: none"> Remove the 4 screws Step 2 <ul style="list-style-type: none"> Remove the Speaker Tweeter in the direction of front part Step 3 <ul style="list-style-type: none"> Remove the 2 Speaker terminals  

Ref. No. 4	Removal of the Front Panel
Procededure 1 → 4	

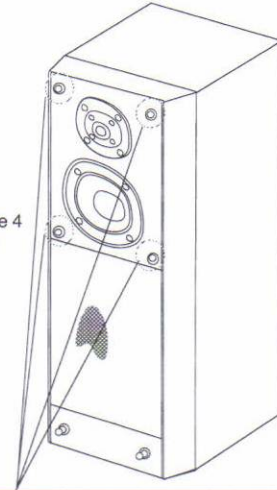
Step 1

- Remove the 4 Catch Pin

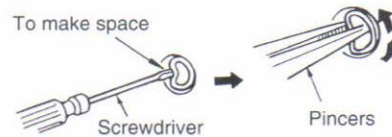


Step 2

- Remove the 4 Net Holder



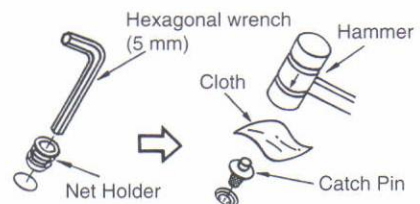
■ Removal of the Net Holder



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).

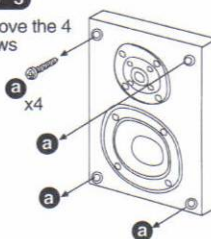
■ Inserting the Net Holder and Catch Pin

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.



Step 3

- Remove the 4 screws



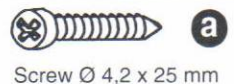
Absorber

Step 4

- Remove the Front Panel in the direction of front part

ATTENTION

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

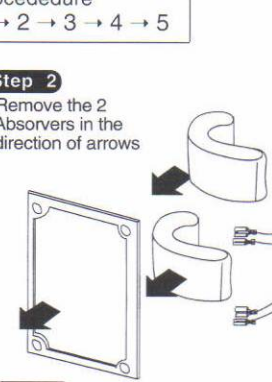


Ref. No. 5 **Removal of the Network Ass'y**

Procededure 1 → 2 → 3 → 4 → 5

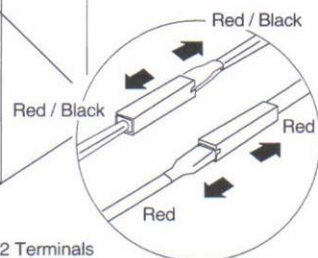
Step 1

- Remove the 2 Absorbers in the direction of arrows
- Remove the gasket Front Panel in the direction of arrow



Step 3

- Remove the 2 Terminals



Step 4

- Remove the 2 screws

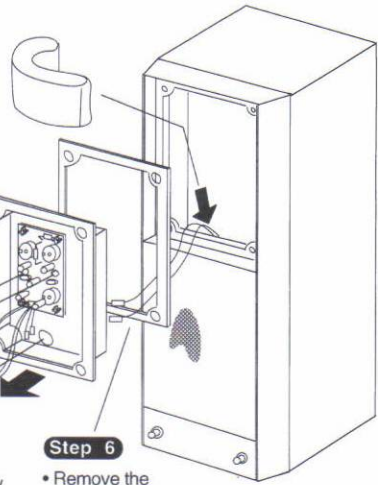


Step 5

- Remove the Cavity and gasket in the direction of arrow

Step 6

- Remove the gasket Cavity



a

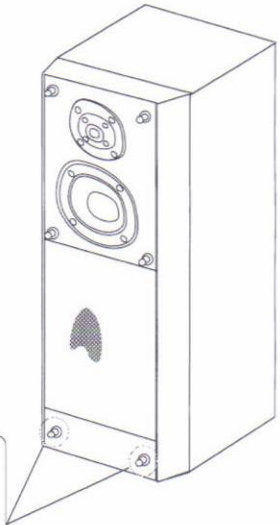
Screw Ø 4,2 x 8 mm

Ref. No. 6 **Removal of the Speaker Woofer Frontal**

Procededure 1 → 6

Step 1

- Remove the 2 Catch Pin



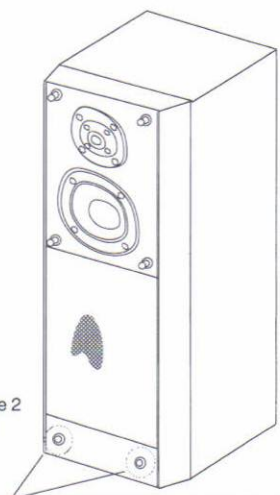
Removal of the Catch Pin



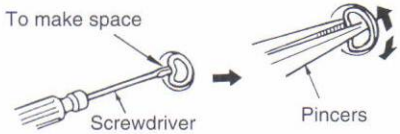
Put the tape in Catch Pin

Step 2

- Remove the 2 Net Holder



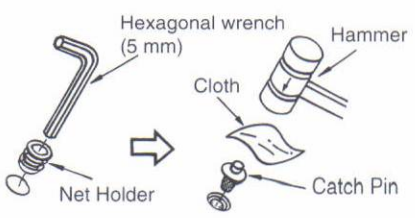
Removal of the Net Holder



- To 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.

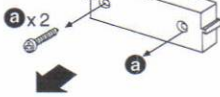


Step 4

- Remove the Ornament Frontal in the direction of arrow

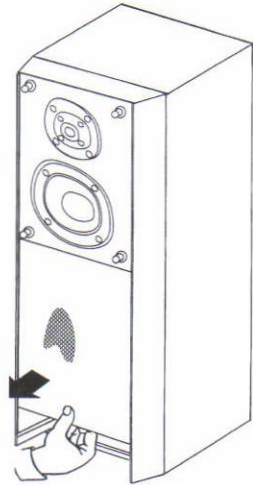
Step 3

- Remove the 2 screws



Step 5

- Remove the Net Frame in the direction of arrow

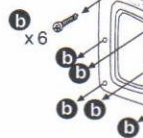


ATTENTION

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

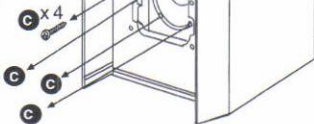
Step 6

- Remove the 6 screws



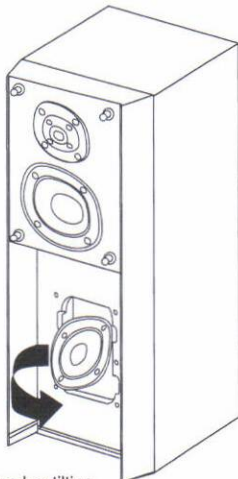
Step 8

- Remove the 4 screws



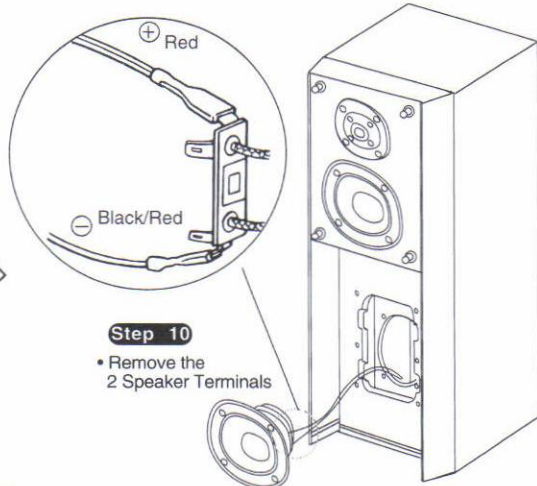
Step 9

- When remove the speaker tilting it as indicated in this picture



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

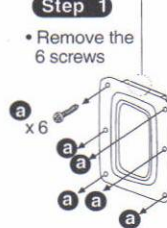
Ref. No. 7	Removal of the Speaker Woofer Rear
Procededure 7	

ATTENTION

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

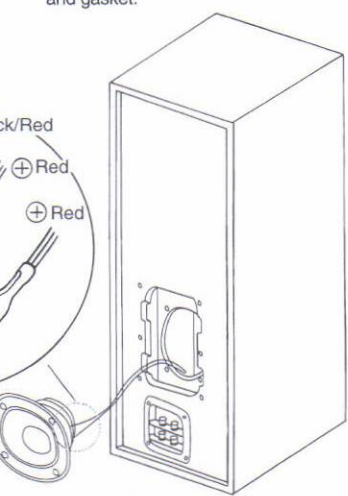
Step 1

- Remove the 6 screws



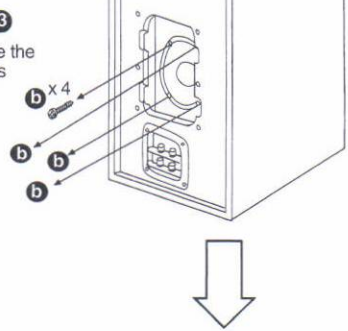
Step 2

- Remove the Passive Radiator and gasket.



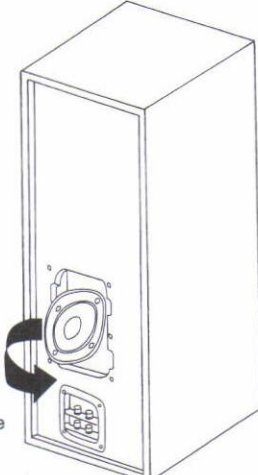
Step 3

- Remove the 4 screws



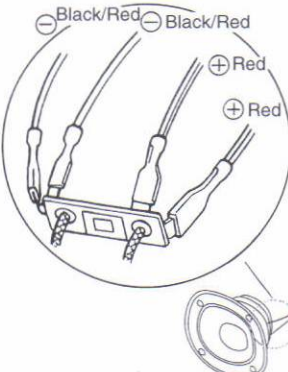
Step 4



When remove the speaker tilting it as indicated in this picture



Step 5

- Remove the 4 Speaker Terminals




Ref. No. 8	Removal of the Terminal Block
Procededure 8	

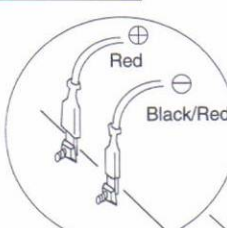
Step 1

- Remove the 4 screws



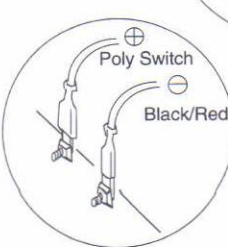
Step 2


- Remove the 2 Terminals HF



Step 3

- Remove the 2 Terminals LF



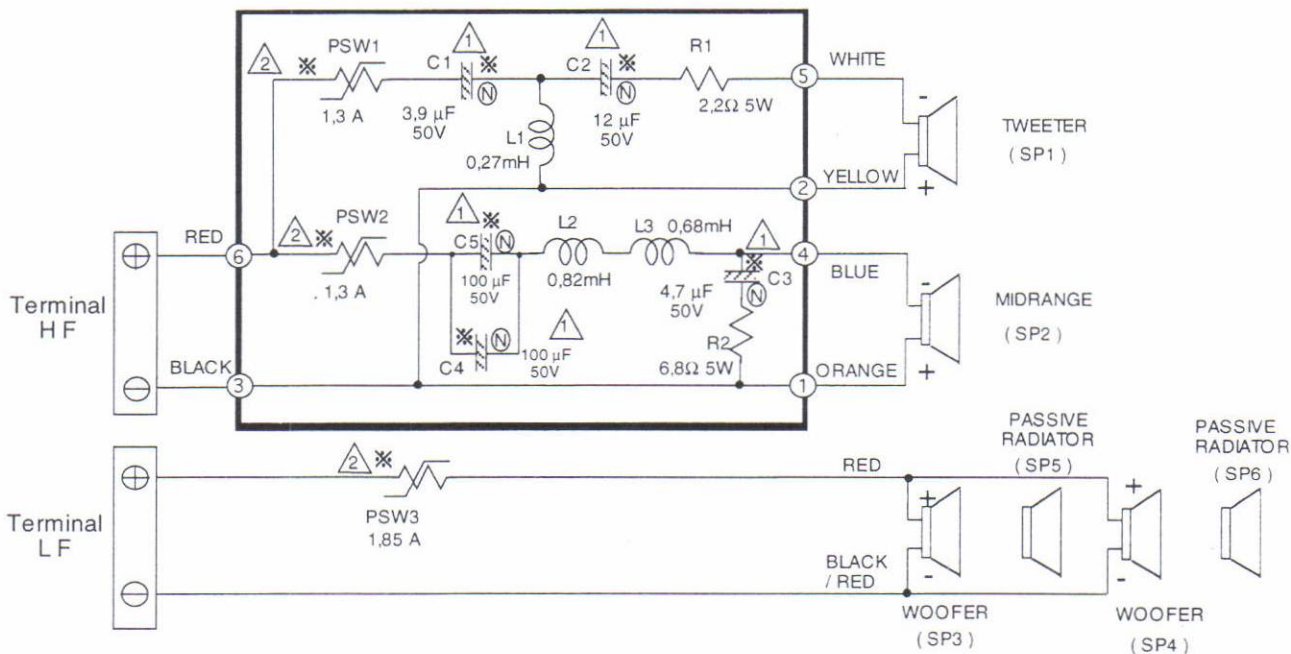


SCHEMATIC DIAGRAM

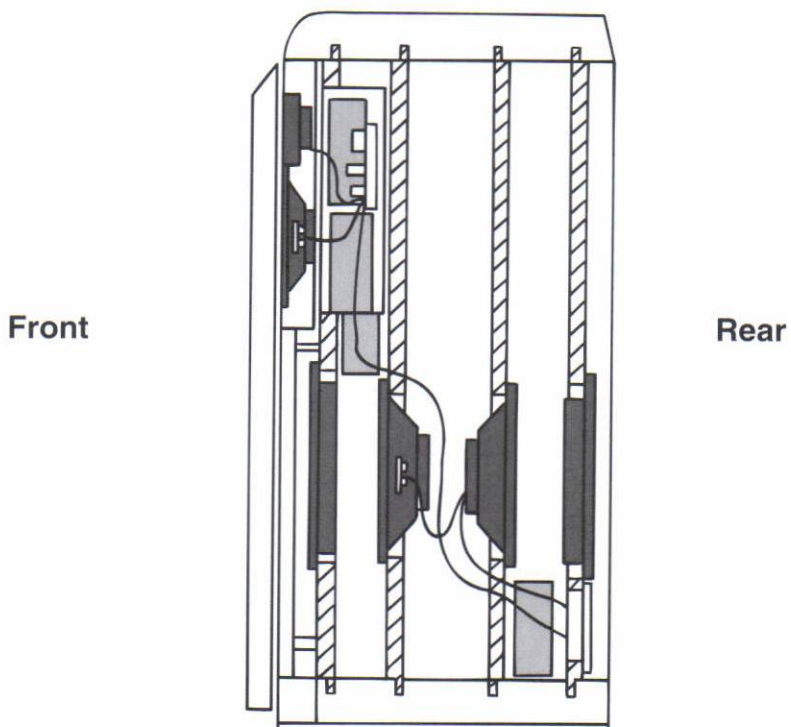
(This schematic diagram may be modified at any time with development of new technology.)
 (Este esquema puede ser modificado en cualquier momento con el desarrollo de nuevas tecnologías.)

 NON POLAR CAPACITOR

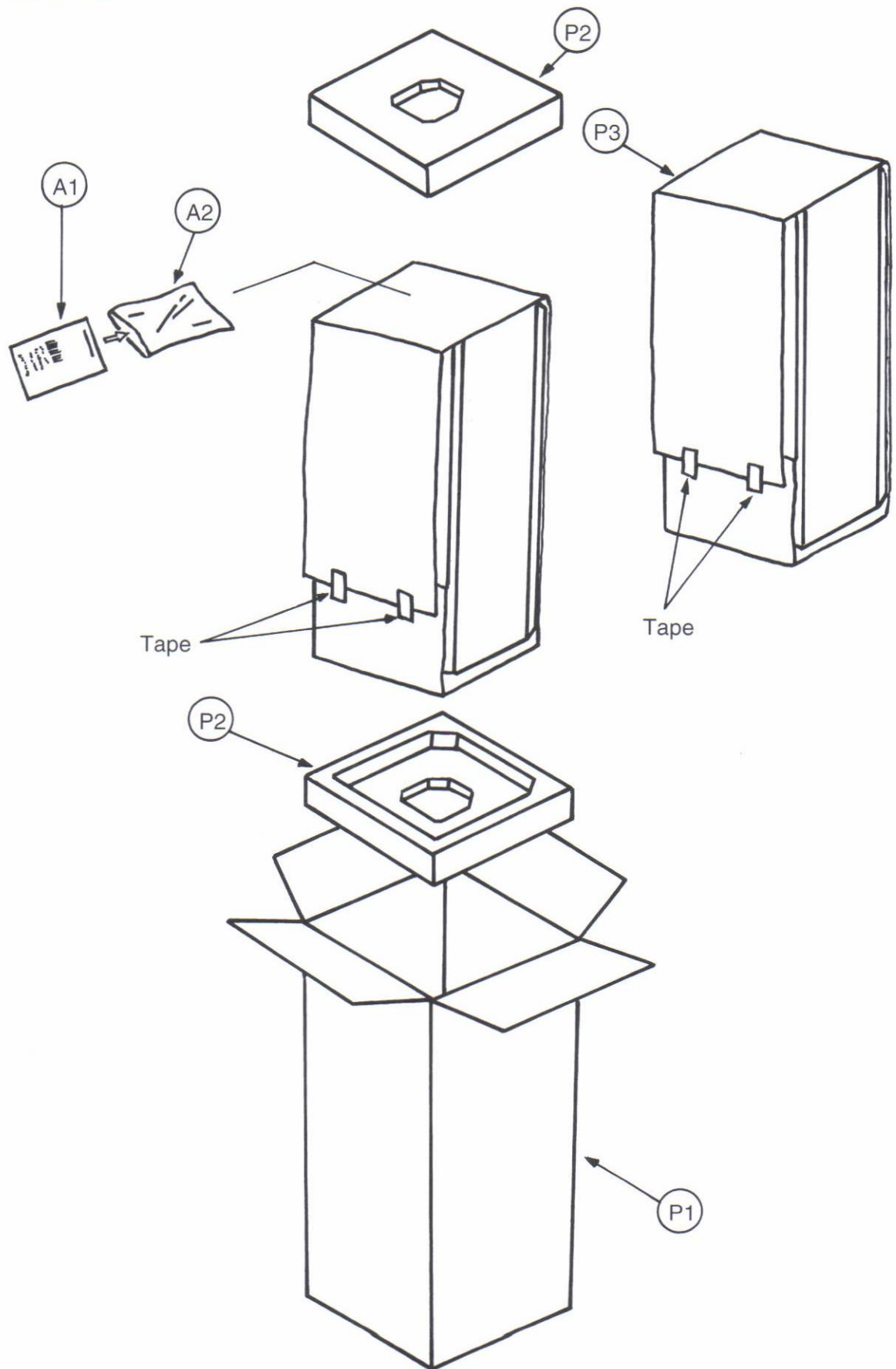
 POLY SWITCH



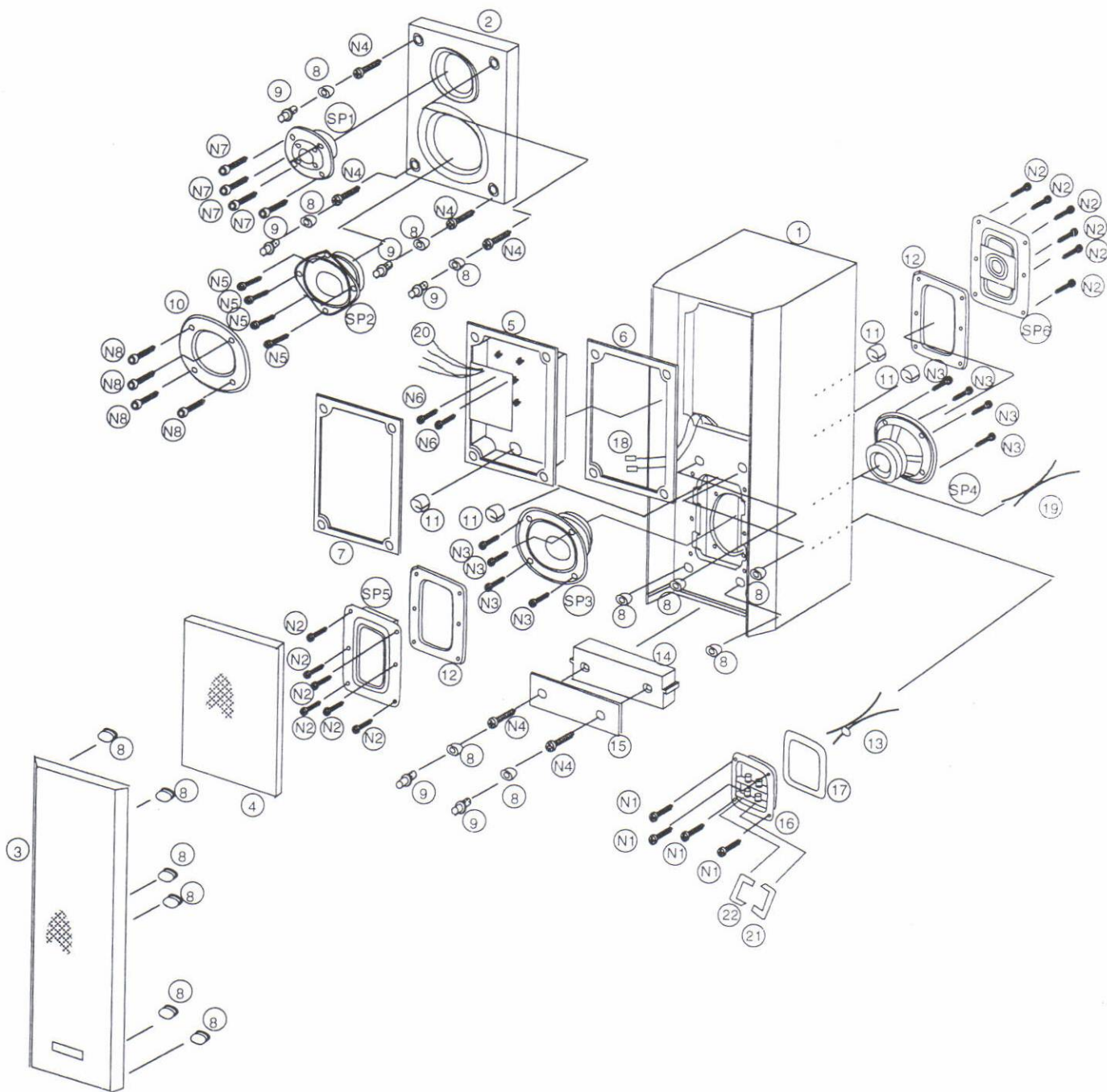
SECTION VIEW



■ 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)					
SP1	EAST25KH05A6	TWEETER	MAES	8	SHG8G9044	NET HOLDER	MAES
SP2	EAST12PL12A6	MIDRANGE	MAES	9	RMQP0455-2	CATCH PIN	MAES
SP3	EAST14PL12A6	WOOFER	MAES	10	RGKP0719KE	ORNAMENT MIDRANGE	MAES
SP4	EAST14PL12A6	WOOFER	MAES	11	SHGS8G9071	GASKET	MAES
SP5	EAST18SY03A6	PASSIVE RADIATOR	MAES	12	RMQP0589A	GASKET PASSIVE RADIATOR	MAES
SP6	EAST18SY03A6	PASSIVE RADIATOR	MAES	13	REXPM300M2WT	CABLE L.F ASS'Y	MAES
		COIL(S)		14	RGQP0251-K	BASEBOARD	MAES
L1	SLCP271J7	CHOQUE COIL 0,27mH	MAES	15	RGKP1095-K	ORNAMENT BASEBOARD	MAES
L2	SLCP821J7	CHOQUE COIL 0,82mH	MAES	16	REJ0076	BASE TERMINAL	MAES
L3	SLCP681J7	CHOQUE COIL 0,68mH	MAES	17	RMQP0589B	GASKET BASE TERMINAL	MAES
		CAPACITOR (S)		18	REXPM500A	CABLE H.F	MAES
C1	ECEA1JPY3R9E	CAPACITOR 3,9 μ F 50V	MAES	19	REXPM500W	INTERCONEXION CABLE	MAES
C2	ECEA50YT12KE	CAPACITOR 12 μ F 50V	MAES	20	SXPPM500M2	NETWORK ASS'Y	MAES
C3	ECEA50YT4R7KE	CAPACITOR 4,7 μ F 50V	MAES	21	RJR0155	SHORT BAR +	MAES
C4	ECEA50YT100KE	CAPACITOR 100 μ F 50V	MAES	22	RJR0156	SHORT BAR -	MAES
C5	ECEA50YT100KE	CAPACITOR 100 μ F 50V	MAES			SCREW(S)	
		RESISTOR (S)		N1	XTNP42+25FG	SCREW TERMINAL BLOCK	MAES
R1	ERX5SJ2R7P	RESISTOR 2,7 Ω 5W	MAES	N2	XTN42+25FG	SCREW PASSIVE RADIATOR	MAES
R2	ERX5SJ6R8P	RESISTOR 6,8 Ω 5W	MAES	N3	XTN42+20	SCREW WOOFER	MAES
		POLY SWITCH		N4	XTN42+25	SCREW FRONT PANEL	MAES
PSW1	RRSSPK130	POLY SWITCH 1,3A	MAES	N4	XTN42+25	SCREW BASE BOARD	MAES
PSW2	RRSSPK130	POLY SWITCH 1,3A	MAES	N5	XTN42+16	SCREW MIDRANGE	MAES
PSW3	SSBSRXE185	POLY SWITCH 1,8A	MAES	N6	XTBS42BZ+8	SCREW NETWORK ASS'Y	MAES
		CABINET ASS'Y		N7	SNES4+16FG	SCREW TWEETER	MAES
1	SYMPM500M2M	CABINET ASS'Y (-M)	MAES	N8	SNES5+16FG	SCREW ORNAMENT MID.	MAES
1	SYMPM500M2K	CABINET ASS'Y (-K)	MAES			ACCESORIES	
2	RYBP0203	FRONT PANEL	MAES	A 1	RQT5060-E	INSTRUCTION BOX	MAES
3	SYBPM500M2AM	NET FRAME(OUTSIDE)-M	MAES	A 2	XZBA4	BAG	MAES
3	SYBPM500M2AK	NET FRAME(OUTSIDE)-K	MAES			PACKING PARTS	
4	SYBPM500M2BK	NET FRAME(INSIDE)	MAES	P1	RPG4471	CARTON BOX(-K)	MAES
5	RMRP0993	CAVITY	MAES	P1	RPG4470	CARTON BOX(-M)	MAES
6	RMQP0602	GASKET CAVITY	MAES	P2	SPSPM500M2	PAD	MAES
7	RMQP0588A-1	GASKET FRONT PANEL	MAES	P3	SPHP23045	SHEET	MAES