

Service Manual

Speaker System

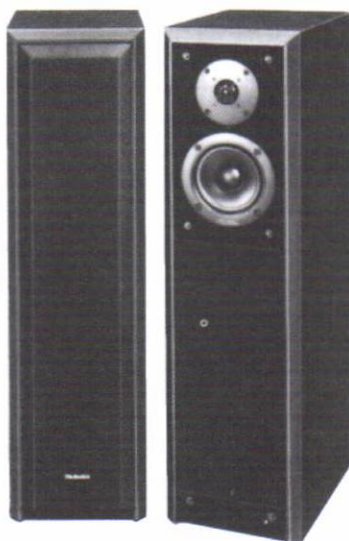
Hi-Fi Speaker System

SB-M500

Colour

(K) ... Black Type

(M) ... Brown Type



SPECIFICATIONS

Type	3-way 4-speaker system
Speakers	Woofer: Dual Dynamic Drive System 18 cm pasive radiator 14 cm 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	86 dB/W (1,0 m)
Crossover Frequency	90 Hz, 2,5 kHz
Frequency Range	35 Hz $\approx$ 45 kHz (-16 dB) 41 Hz $\approx$ 38 kHz (-10 dB)
Dimensions (W x H x D)	220 x 790 x 365 mm
Weight	18,5 kg

Note:
Design and specifications are subject to change without notice.

ESPECIFICACIONES

Tipo	Sistema con 4 altavoces
Altavoces	Graves: Dual Dynamic Drive System Radiador pasivo de 18 cm Activo tipo cónico de 14 cm Medios: tipo cónico de 14 cm Agudos: tipo cúpula de 2,5 cm
Impedancia	6 Ω
Capacidad de potencia	160 W, Música 80 W, DIN
Nivel de presión acústica de salida	86 dB/W (1,0 m)
Frecuencia de cruce	90 Hz, 2,5 kHz
Respuesta de frecuencias	35 Hz $\approx$ 45 kHz (-16 dB) 41 Hz $\approx$ 38 kHz (-10 dB)
Dimensiones (W x H x D)	220 x 790 x 365 mm
Peso	18,5 kg

Nota:
Estas especificaciones están sujetas a cualquier cambio sin previo aviso.

SPECIFICATIONS

Type	3-voies 4-haut-parleurs
Haut-parleurs	Graves: Dual Dynamic Drive System Graves: 18 cm diffuseur pasive 14 cm type a cone excitateur active Moyennes: 14 cm type a cone Aigus: 2,5 cm type dome
Impédance	6 Ω
Entrée maximale	160 W, Musique 80 W, DIN
Niveau de pression sonore de sortie	86 dB/W (1,0 m)
Fréquence de conmutation	90 Hz, 2,5 kHz
Gamme de fréquences	35 Hz $\approx$ 45 kHz (-16 dB) 41 Hz $\approx$ 38 kHz (-10 dB)
Dimensions (W x H x D)	220 x 790 x 365 mm
Poids	18,5 kg

Note:
Sujet à changement sans preavis.

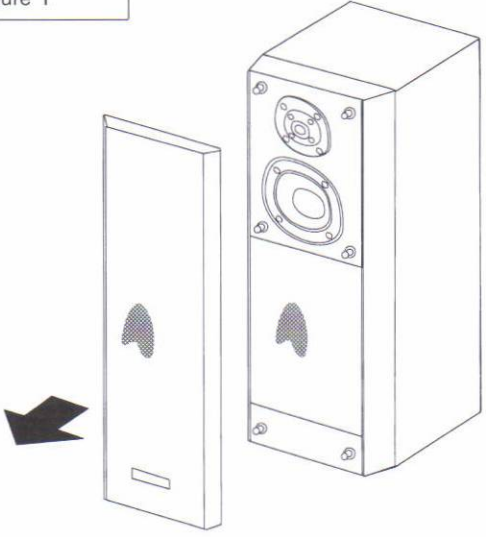
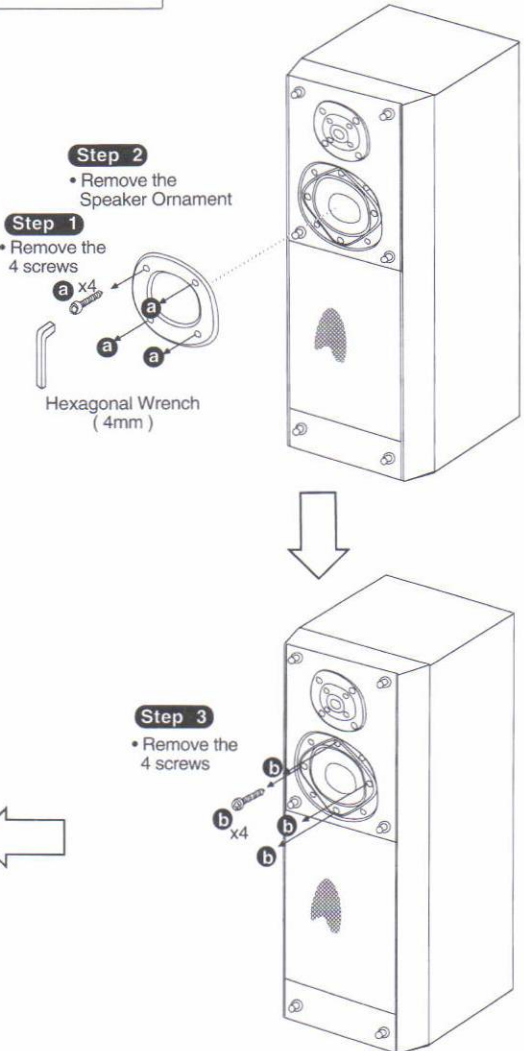
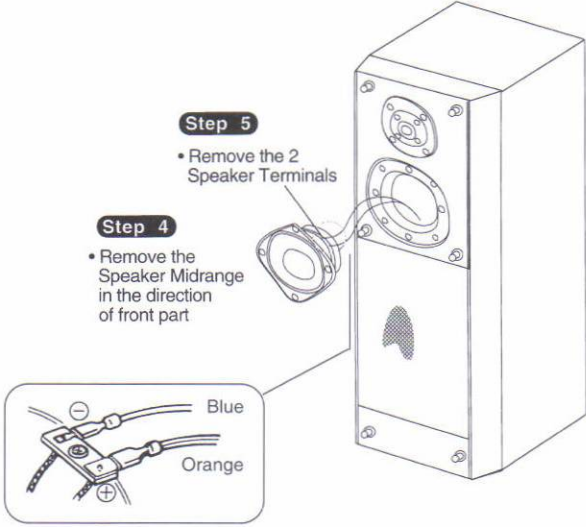
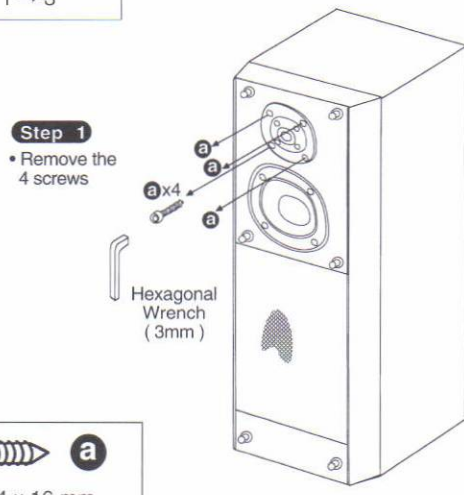
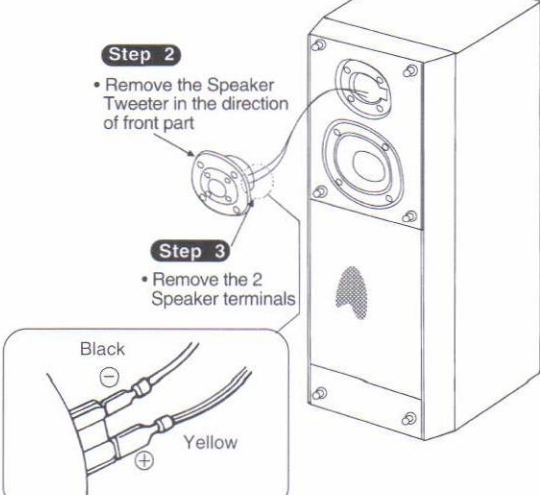
WARNING

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 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.

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DISASSEMBLY INSTRUCTIONS

Ref. No. 1	Removal of the Speaker Net	Ref. No. 2	Removal of the Speaker Midrange
Procededure 1	 • Remove the Speaker Net in the direction of arrow.	Procededure 1 → 2	 Step 2 - Remove the Speaker Ornament Step 1 - Remove the 4 screws a x4 Hexagonal Wrench (4mm) Step 3 - Remove the 4 screws b x4
	 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 a x4 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 Black Yellow	

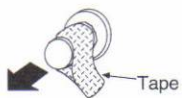
Ref. No. 4

Removal of the Front Panel

Procededure 1 → 4

Step 1

- Remove the 4 Catch Pin

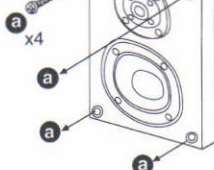
■ Removal of the Catch Pin

Put the tape in Catch Pin

Absorber

Step 3

- Remove the 4 screws

**Step 4**

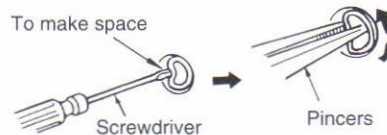
- Remove the Front Panel in the direction of front part

ATTENTION

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

Step 2

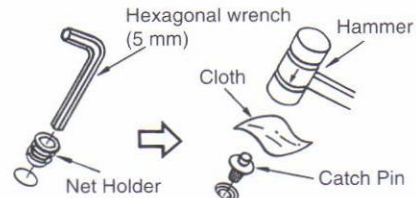
- Remove the 4 Net Holder

■ 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.

**a**

Screw Ø 4,2 x 25 mm

Ref. No. 5

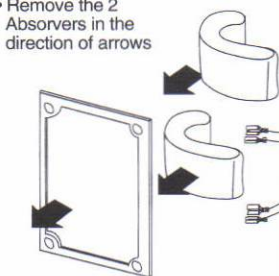
Removal of the Network Ass'y

Procededure

1 → 2 → 3 → 4 → 5

Step 2

- Remove the 2 Absorbers in the direction of arrows



Step 1

- Remove the gasket Front Panel in the direction of arrow

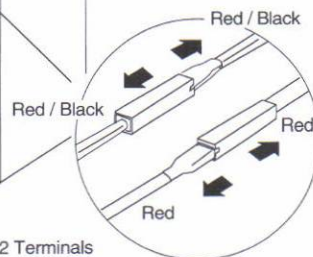


a

Screw $\varnothing$ 4,2 x 8 mm

Step 3

- Remove the 2 Terminals



Step 7

- Remove the Absorber

Step 4

- Remove the 2 screws

a x2

a

Step 5

- Remove the Cavity and gasket in the direction of arrow

Step 6

- Remove the gasket Cavity

Ref. No. 6

Removal of the Speaker Woofer Frontal

Procededure 1 → 6

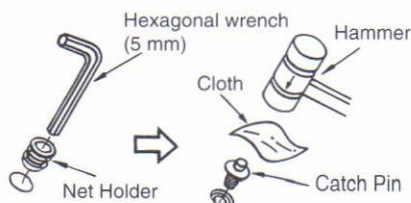
Step 1

- Remove the 2 Catch Pin

■ Removal of the Catch Pin



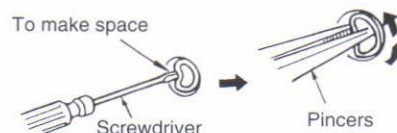
Put the tape in Catch Pin



Step 2

- Remove the 2 Net Holder

■ Removal of the Net Holder



- To use a screwdriver $\ominus$ 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

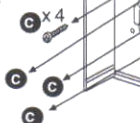
- Remove the Ornament Frontal in the direction of arrow

Step 3

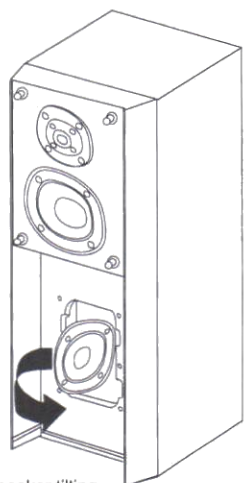
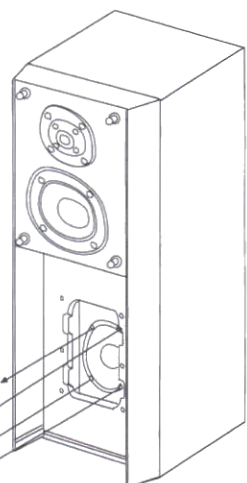
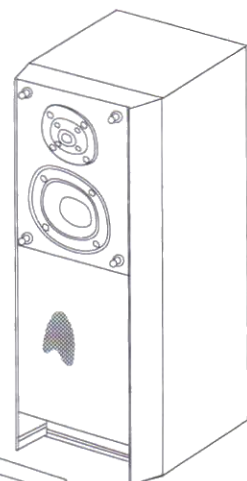
- Remove the 2 screws

**Step 8**

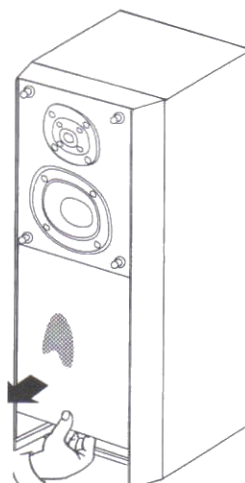
- Remove the 4 screws

**Step 9**

When remove the speaker tilting it as indicated in this picture

**Step 5**

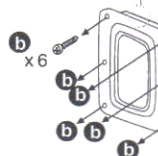
- Remove the Net Frame in the direction of arrow

**ATTENTION**

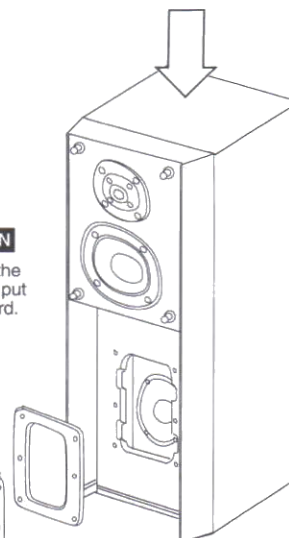
- When assembly the Passive Radiator put UP mark to upward.

Step 6

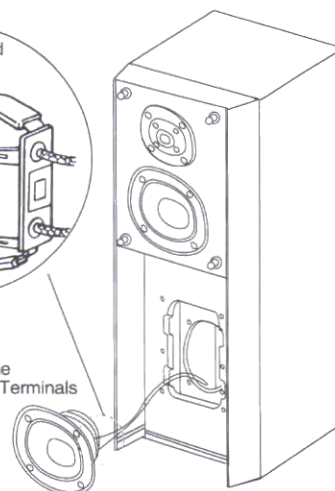
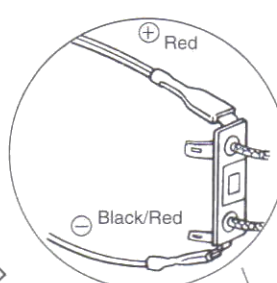
- Remove the 6 screws

**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

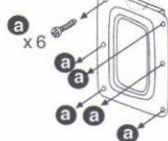
Procededure 7

ATTENTION

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

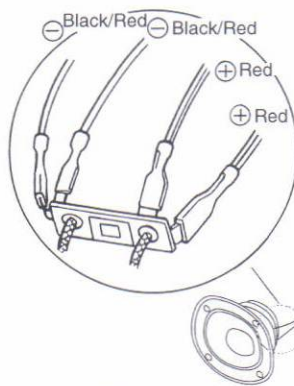
Step 1

- 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

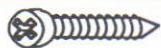
- Remove the 2 Terminals HF

Step 3

- Remove the 2 Terminals LF

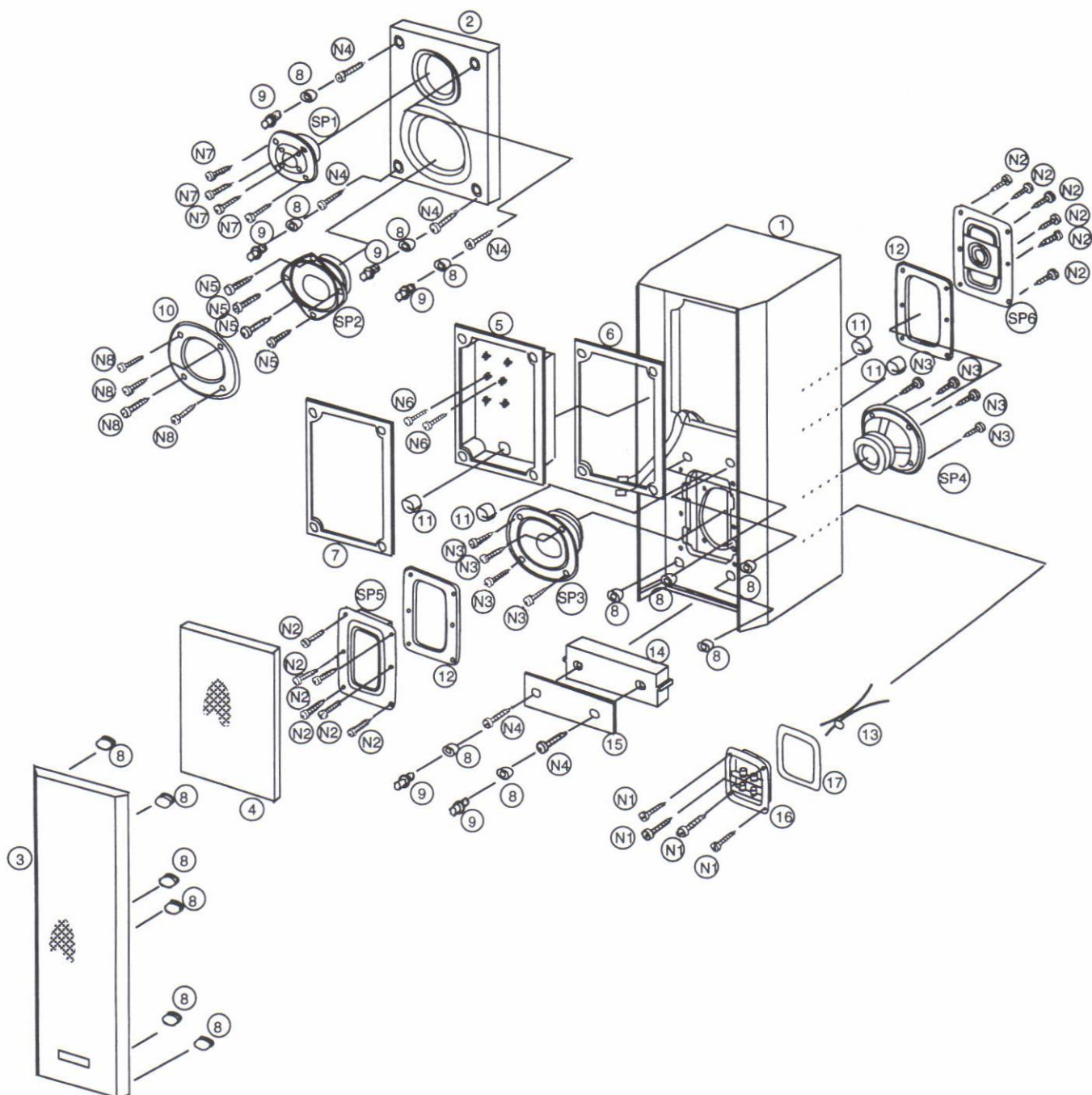
Step 1

- Remove the 4 screws



Screw Ø 4,2 x 25 mm

■ EXPLODED VIEW



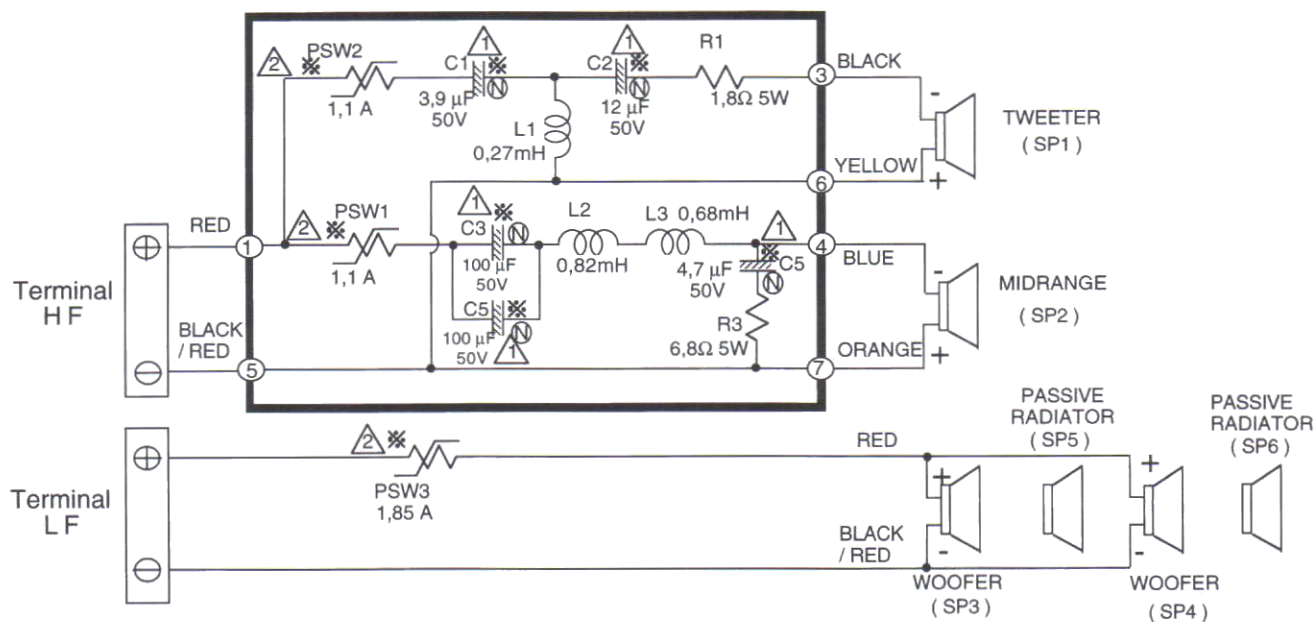
SCHEMATIC DIAGRAM

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

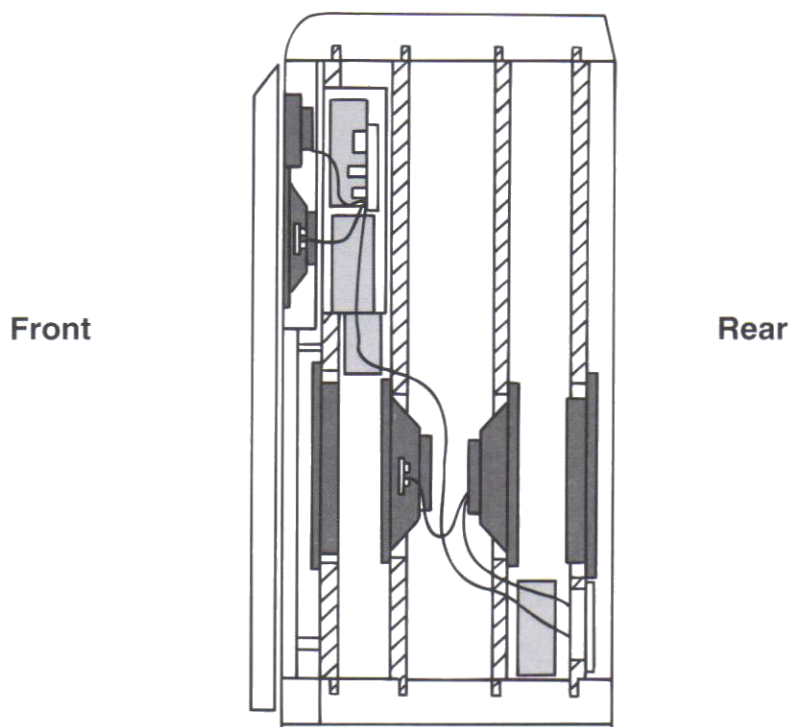
(Este esquema puede ser modificado en cualquier momento con el desarrollo de nuevas tecnologías.)

① ➔ ✖ (N) NON POLAR CAPACITOR

② ➔ ✖ POLY SWITCH



SECTION VIEW



■ PACKAGING

