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
Woofers: Dual Dynamic Drive System
18 cm passive radiator
14 cm cone type driver unit
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
90 Hz, 2.5 kHz
86 dB/W (1.0 m)

Frequency Range
35 Hz ~ 45 kHz (~16 dB)
41 Hz ~ 38 kHz (~10 dB)
220 x 790 x 365 mm

Weight
18.5 kg

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

Specifications

Type
3-voies 4-haut-parleurs

Haut-parleurs
Graves: Dual Dynamic Drive System
18 cm diffuseur passif
14 cm type a cone excitateur actif
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)
90 Hz, 2.5 kHz

Fréquence de commutation
35 Hz ~ 45 kHz (~16 dB)
41 Hz ~ 38 kHz (~10 dB)
220 x 790 x 365 mm

Poids
18.5 kg

Note:
Sujet à changement sans préavis.

Specifications

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 ~ 45 kHz (~16 dB)
41 Hz ~ 38 kHz (~10 dB)
220 x 790 x 365 mm

Peso
18.5 kg

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

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**

Procedure 1

- Remove the Speaker Net in the direction of arrow.

**Step 1**
- Remove the Speaker Ornament

**Step 2**
- Remove the 4 screws

**Step 3**
- Remove the 4 screws

**Step 4**
- Remove the 2 Speaker Terminals

**Step 5**
- Remove the Speaker Midrange in the direction of front part

**Ref. No. 2**
**Removal of the Speaker Midrange**

Procedure 1 → 2

- Hexagonal Wrench (4mm)

**Step 1**
- Remove the Speaker Ornament

**Step 2**
- Remove the 4 screws

**Step 3**
- Remove the 4 screws

**Ref. No. 3**
**Removal of the Speaker Tweeter**

Procedure 1 → 3

- Hexagonal Wrench (3mm)

**Step 1**
- Remove the 4 screws

**Step 2**
- Remove the Speaker Tweeter in the direction of front part

**Step 3**
- Remove the 2 Speaker terminals

**Screw Ø 5 x 16 mm**

**Screw Ø 4,2 x 16 mm**

**Screw Ø 4 x 16 mm**

**Black**

**Yellow**
Removal of the Front Panel

Procedure 1 → 4

**Step 1**
- Remove the 4 Catch Pins

**Step 2**
- Remove the 4 Net Holder

**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.

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**Screw Ø 4,2 x 25 mm**
**Removal of the Network Ass'y**

**Ref. No. 5**

Procedure
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

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**Screw Ø 4.2 x 8 mm**

**Ref. No. 6**

Procedure 1 → 6

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**Removal of the Speaker Woofer Frontal**

**Step 1**
- Remove the 2 Catch Pin

**Step 2**
- Remove the 2 Net Holder

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**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 1
- Remove the Ornament Frontal in the direction of arrow

Step 3
- Remove the 2 screws

Step 4
- Remove the Ornament Frontal 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 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
**Removal of the Speaker Woofer Rear**

**Step 1**
- Remove the 6 screws

**Step 2**
- Remove the Passive Radiator and gasket.

**Step 3**
- Remove the 4 screws

**Step 4**
- When removing the speaker, tilt it as indicated in this picture.

**Step 5**
- Remove the 4 Speaker Terminals

**Removal of the Terminal Block**

**Step 1**
- Remove the 4 screws

**Step 2**
- Remove the 2 Terminals HF

**Step 3**
- Remove the 2 Terminals LF

**Ref. No. 7**
- Procedure 7

**Ref. No. 8**
- Procedure 8
# REPLACEMENT PARTS LIST

Notes 1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
2. **PAES** indicates parts that are supplied by PAES.
3. **AD** indicates parts that are supplied by AD, M.E.I.

Notas 1. El código está indicado en la mayoría de las piezas. Favor, use este código para sus pedidos.
2. La indicación **PAES** significa recambios suministrados a través de PAES.
3. La indicación **AD** significa recambios suministrados a través de AD, M.E.I.

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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.)

SECTION VIEW