Service Manual

Speaker System

SB-M1000

Hi-Fi Speaker System

Colour
(M) ............... Wood

■ SPECIFICATIONS

Type
Speakers
4-way 7-speaker system
Woofers: Dual Dynamic Drive System
14 cm passive radiator x 4
Midrange: Mid Low 14 cm cone type
Mid High 8 cm cone type
Tweeter: 2.5 cm dome type

Impedance
6 Ω

Input Power
200 W (Music)
100 W (DIN)
86 dB/W (1.0 m)

Output Sound Pressure Level
90 Hz, 900 Hz: 3.5 kHz
25 Hz = 80 kHz (-16 dB)
30 Hz = 75 kHz (-10 dB)

Crossover Frequency
90 Hz; 900 Hz: 3.5 kHz
25 Hz = 80 kHz (-16 dB)
30 Hz = 75 kHz (-10 dB)

Frequency Range
90 Hz; 900 Hz: 3.5 kHz
25 Hz = 80 kHz (-16 dB)
30 Hz = 75 kHz (-10 dB)

Dimensions (W x H x D)
284 x 1190 x 447 mm

Weight
42 kg

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

■ ESPECIFICACIONES

Tipo
Altavoces
Sistema de 4 vías con 7 altavoces
Graves:Dual Dynamic Drive System
radior pasivo de 16 cm x 4
activo tipo cónico de 14 cm x 4
Medios: Medios graves tipo cónico de 14 cm
Medios agudos tipo cónico de 8 cm
Agudos: tipo cúpula de 2,5 cm

Impedancia
6 Ω

Capacidad de potencia
200 W (Musicales)
100 W (DIN)
86 dB/W (1.0 m)

Nivel de presión acústica de salida
90 Hz, 900 Hz: 3.5 kHz
25 Hz = 80 kHz (-16 dB)
30 Hz = 75 kHz (-10 dB)

Frecuencia de cruce

Respuesta de frecuencias

Dimensions (W x H x D)
284 x 1190 x 447 mm

Peso
42 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

- **Step 1**  
  - Remove the Speaker Net in the direction of arrow.

Ref. No. 2  
**Removal of the Speaker Tweeter**  
Procedure 1 → 2

- **Step 1**  
  - Remove the Speaker Ornament.

- **Step 2**  
  - Remove the 4 screws.

Ref. No. 3  
**Removal of the Speaker Mid High**  
Procedure 1 → 3

- **Step 1**  
  - Remove the Speaker Ornament.

- **Step 2**  
  - Remove the 4 screws.

**Screw Ø 4.2 x 25 mm**
Step 4
- Remove the 2 Speaker Terminals.

Step 3
- Remove the Speaker Mid High in the direction of front part.

Step 2
- Remove the 4 screws.

Step 1
- Remove the Speaker Ornament.

Ref. No. 4
Removal of the Speaker Mid Low

Procedure 1 → 4

Screw Ø 4.2 x 25 mm
Ref. No. 5 Removal of the Front Panel

Procedure 1 → 5

**Step 1**
- Remove the 4 Catch pin.

- Removal of the Catch Pin.
  ![Tape](Put the tape in Catch Pin.)

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

- Removal of the Net Holder
  To make space
  ![Tools](Screwdriver, Pincers)
  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).

**Step 3**
- Remove the 4 screws.

**Step 4**
- Remove the Front Panel in the direction of front part.

**Step 5**
- Remove the 2 Terminals.

![Screw O 4.2 x 32 mm](a)

![Net Holder and Catch Pin](Hexagonal wrench (5 mm), Cloth, Hammer, Net Holder, Catch Pin)
Ref. No. 6  Removal of the Network Ass'y
Procedure 1 → 5 → 6

Step 1
* Remove the Net Frame in the direction of arrow.

ATTENTION
* When assembly the Passive Radiator put UP mark to upward.

Step 2
* Remove the 6 Screws

Step 3
* Remove the Passive Radiator and Gasket.

Step 4
* Remove the 4 Screws.

Screw ø 4.2 x 20 mm  
Screw ø 4.2 x 25 mm  
Screw ø 4.2 x 60 mm
Ref. No. 8
Procedure 1 → 5 → 8
Up Frontal

Step 1
- Remove the Net Frame in the direction of arrow.

Step 2
- Remove the 6 Screws.

Step 3
- Remove the Passive Radiator and Gasket.

ATTENTION
- When assembling the Passive Radiator put UP mark to upward.

Step 4
- Remove the 4 Screws.

Step 5
- When removing the Speaker tilt it as indicated in this picture.

Step 6
- Remove the 2 Speaker Terminals.

Screw Ø 4.2 x 25 mm

Screw Ø 4.2 x 20 mm
**Procedure 9**

**Removal of the Speaker Woofer**

**Down Rear**

**Step 1**
- Remove the 6 Screws.

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

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

**Step 3**
- Remove the 4 Screws.

**Step 4**
- Remove the Speaker tilting it as indicated in this picture.

**Procedure 10**

**Removal of the Speaker Woofer**

**Up Rear**

**Step 1**
- Remove the 6 Screws.

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

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

**Step 3**
- Remove the 4 Screws.

**Screw Ø 4.2 x 25 mm**

**Screw Ø 4.2 x 20 mm**
Step 4
* When remove the Speaker fitting it as indicated in this picture.

Step 5
* Remove the 2 Speaker Terminals.

Ref. No. 11
Removal of the Terminal Block

Procedure 11

Step 1
* Remove the 4 Screws.

Step 2
* Remove the 2 Terminals HF.

Step 3
* Remove the 2 Terminals LF.

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.)

- △ NON POLAR CAPACITOR
- △ POLY SWITCH

**TERMINAL HF**

- PS3
- C6 2.7 µF 50V
- L4 0.22mH
- T3 5A
- C8 2.2µF 50V
- R5 10Ω 3W
- R6 6.8Ω 3W
- BLUE/BLACK

**TERMINAL LF**

- PS1
- C1 100 µF 50V
- L1 2.2mH
- C2 1.8µF 50V
- R1 1.8Ω 5W
- RED/BLACK

**PASSIVE RADIATOR**

- RED
- ORANGE
- BLACK/RED

**WOOFER**

- (SP4)
- (SP5)

**WOOFER** (SP6)

**WOOFER** (SP7)

**PASSIVE RADIATOR** (SP8)

**SECTION VIEW**
# 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. Por 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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