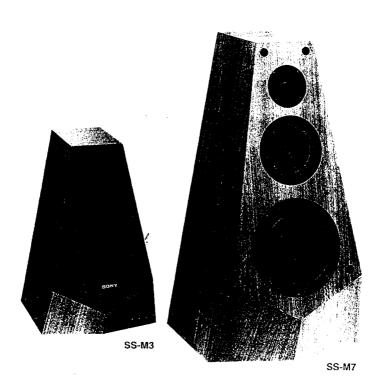
Speaker System

Operating Instructions





1993 by Sony Corporation

Features

Transducers

- Diaphragms with ideal mass/stiffness ratios are utilized to maximize linear frequency range.
- Vented magnetic metalwork, large-diameter vented aluminum voice coil formers, and ultra-high-temperature voice coil wire assure excellent power handling capability.
- Transducer parameters are computer-optimized for ideal bass performance in each enclosure size.

Crossover Networks

- Computer-optimized 24 dB/octave attenuation filters ensure optimum frequency division for minimum distortion and maximum power handling.
- Networks are also computer-optimized for ideal polar (offaxis), power, and phase response.
- Separate high- and low-frequency inputs and circuit boards help maintain high signal quality and provide biamp capability.

Enclosures

- Non-parallel internal surfaces are employed to minimize standing waves (which distort the sound).
- Baffle area around transducers has been minimized to dramatically reduce diffraction and baffle effect.
- Time alignment of all transducers at the ideal listening position (3 meters instead of 1 meter) minimizes timedelay distortions.
- 25 mm (1 in.) thick walls with special bracing design reduce cabinet resonances and colorations.

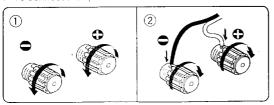
Connections

- Before connection, turn off the amplifier to avoid damaging the speaker system.
- The input terminal of the speaker system should be connected to the terminal of the amplifier, and the terminal to the terminal.
- This speaker system is driven best by an amplifier or receiver rated as per the wattage indicated in the specification section.
 - A low-powered amplifier could result in signal clipping which could result in tweeter burn-out. Therefore, it is recommended to use an amplifier or receiver with sufficient power rating.
- Power amplifiers which are used for Bi-Amplified connection should have identical gain characteristics to ensure proper balance and best sound quality.

Note

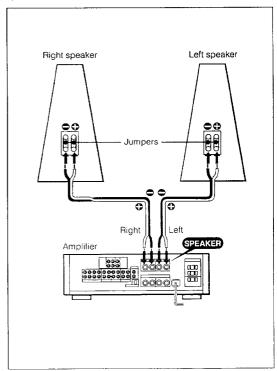
An amplifier or receiver with less than recommended wattage can be used when you want to use your speaker systems for background music, or at low levels in a small room. However, please be sure to use the amplifier or receiver with its volume not beyond its normal limits.

· To connect the speaker cords



Normal Connection

Connect the speaker cords to the lower terminals of the speaker.



Precautions

- Do not attempt to open the enclosure or remove speaker units. There are no user-serviceable parts inside.
- Keep TV set, recorded tapes, watches, and personal credit cards using magnetic coding away from the speaker system.
- Periodically wipe the cabinet with a soft cloth. Do not use any type of scouring powder, abrasive pad or solvent.

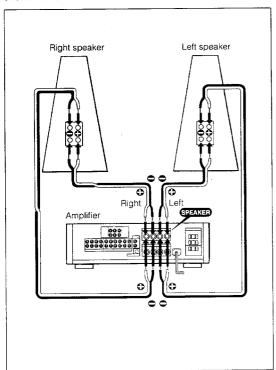
Speaker Placement

Please note that room acoustics can often produce large differences in the sound for small changes in speaker placement.

- Place the right and left speaker systems in a similar acoustic environment.
- Place each speaker system a minimum distance of 1 meter (39 in.) from any side or rear walls for best imaging.
- Speakers should be placed on speaker stands such that
 the tweeter to floor height is approximately 102 cm (40 in.)
 for proper time alignment and best imaging. If speaker
 stands are used on a carpeted floor they should be
 spiked to the floor to ensure stability and best sound.
- If possible, avoid having large objects between the speakers and, especially, between the listener and the speakers.

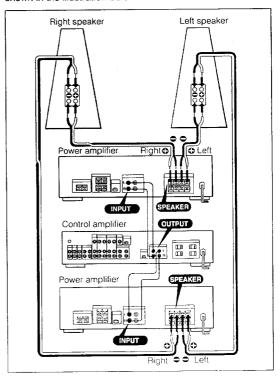
Bi-Wired Connection

Remove the jumpers and connect the speaker cords as shown in the illustration below.



Bi-Amplified Connection

Remove the jumpers and connect the speaker cords as shown in the illustration below.



Specifications

SS-M7

Speaker system

3-way

Loudspeaker units

Woofer: 20 cm (8 inches), cone type Midrange: 10 cm (4 inches), cone

type 8 ohms

Tweeter: 2.5 cm (1 inch), dome type

Rated Impedance

Maximum recommended amplifier power

200 W (Non clip) Characteristic sensitivity level

86 dB (1W, 1m) Effective frequency range

Crossover frequency

47 Hz to 20,000 Hz (-3 dB) 400 Hz, 4000 Hz/24 dB/oct

Dimensions (w/h/d)

Approx. 400 x 745 x 400 mm (15 ³/₄ x 29 ³/₈ x 15 ³/₄ inches)

Mass Optional accessories Approx. 25.2 kg (55 lb 9 oz) Speaker stands WS-M7

SS-M3

Speaker system

Loudspeaker units

Woofer: 18 cm (6 1/, inches), cone

type

Tweeter: 2.5 cm (1 inch), dome type

Rated impedance

8 ohms

Maximum recommended amplifier power 120 W (Non clip)

Characteristic sensitivity level

85 dB (1W, 1m)

Effective frequency range

70 Hz to 20,000 Hz (-3dB)

Crossover frequency

2000 Hz/24 dB/oct

Dimensions (w/h/d)

Approx. 300 x 465 x 345 mm (11 ¹/_s x 18 ³/_s x 13 ⁵/_s inches)

Mass

Approx. 13.2 kg (29 lb)

Optional accessories

Speaker stands WS-M3

Design and specifications are subject to change without notice.