

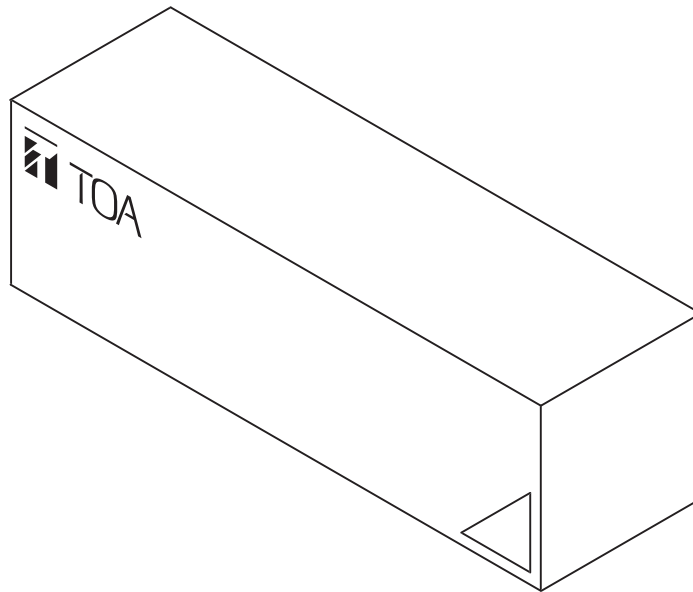


MINI SUBWOOFER SYSTEM

FB-10

Thank you for purchasing TOA's Mini Subwoofer System.

Please carefully follow the instructions in this manual to ensure long, trouble-free use of your equipment.



1. GENERAL DESCRIPTION

The FB-10 is designed as a subwoofer system for the F-series speaker system*.

* F-10W, F-10B, F-1000W, F-1000B

2. FEATURES

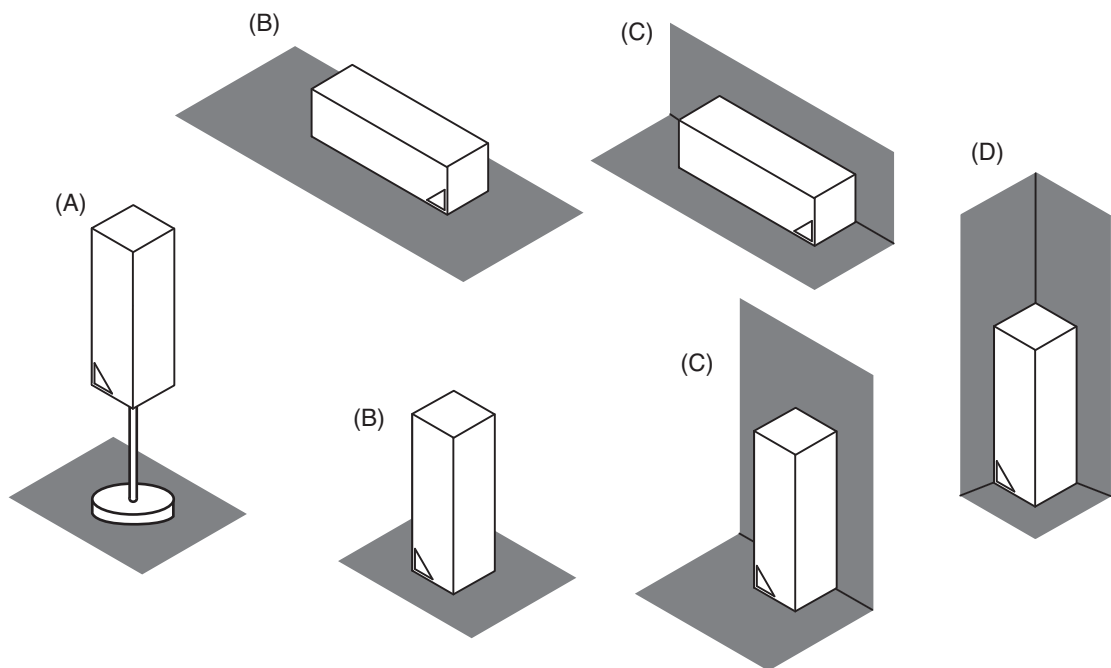
- High power capability using a 16 cm (6.5") woofer.
- Delivers super low frequency sound with less distortion despite compact size thanks to its port radiation type enclosure.
- Can be installed to the ceiling or wall with the optional BY-10 Speaker bracket.

3. INSTALLATION

- Since the FB-10 reproduces low frequency sounds below 100 Hz that are widely dispersed almost omnidirectionally, listeners can hardly detect the sound direction wherever the FB-10 is installed. In addition, as sounds in such low frequencies (long wavelength) travel around obstacles to listeners, heavy and low frequency sounds can be sufficiently obtained even if the FB-10 is installed in invisible locations. Therefore, the FB-10 can be installed in various locations such as under the table, under the sofa, behind the counter, or on the side of ceiling beam.
- Since the FB-10 delivers heavy and low frequency sounds omnidirectionally, loudness can be enhanced depending on the installation location.
Four installation methods can be considered as follows.
 - (A) Installation in free space
Provides sound characteristics nearly the same as those in anechoic rooms.
 - (B) Installation in half free space
Provides a sound pressure level about 6 dB more compared to (A).
 - (C) Installation in quarter free space
Provides a sound pressure level about 12 dB more compared to (A).
 - (D) Installation in eighth free space
Provides a sound pressure level about 18 dB more compared to (A).

Aural loudness will change depending on the installation methods as described above.

To obtain loudness efficiently, it is recommended to install the FB-10 as close to the wall as possible or at the corner of the room.



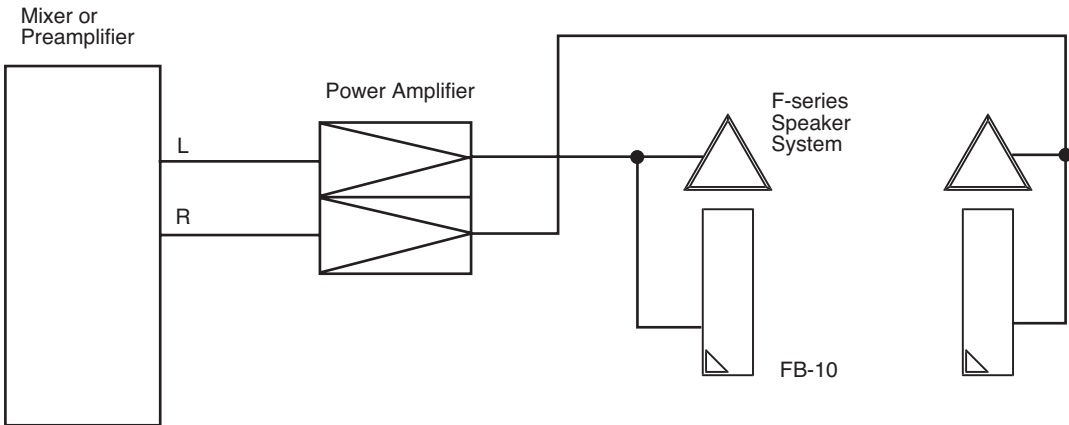
- When installing the FB-10 on the floor or close to the wall, select the location structurally-reinforced and free from resonance.
- For wall or ceiling installation, use the optional BY-10 Speaker Bracket.
Note: The BY-10 is designed for use with one FB-10.

4. HANDLING PRECAUTIONS

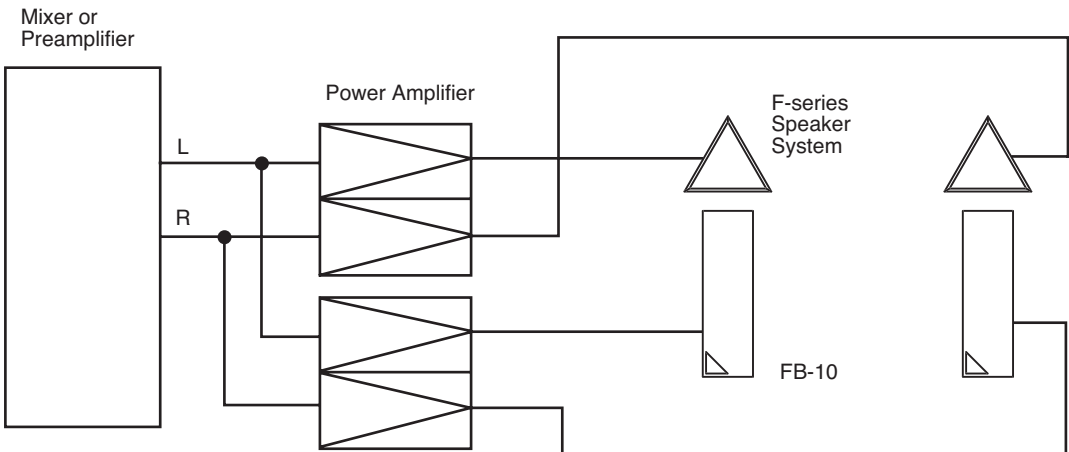
- Set the crossover frequency to 100 Hz when signals are applied to the FB-10 after their high frequency components have been cut by a channel divider or graphic equalizer.
- If an abnormal noise arises, immediately lower the input level because an excessive input is applied to the FB-10.
- Install the FB-10 so as not to block its duct section. Further, provide at least 10 cm (3.94") clearance in front of the duct.

5. CONNECTION DIAGRAMS

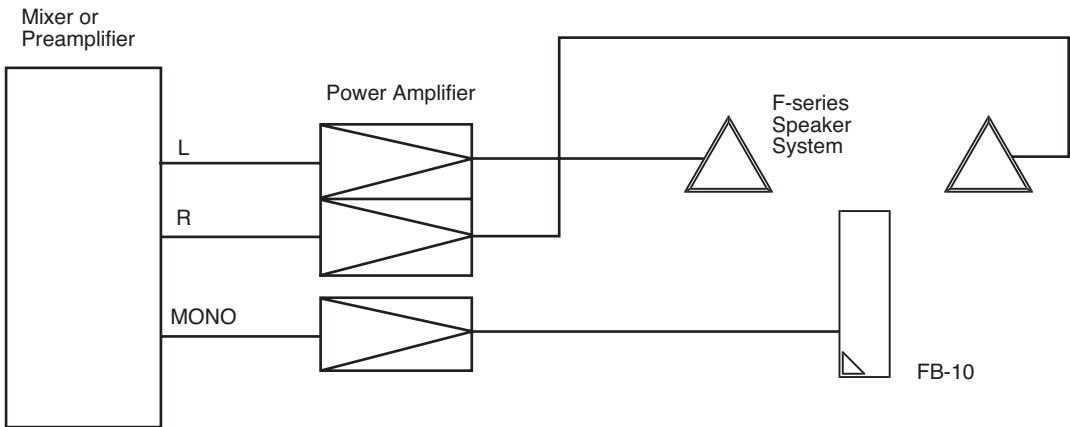
[System using one stereo power amplifier (4 Ω drive)]



[System using two stereo power amplifiers (8 Ω drive)]



[2.1 channel sound system]



In this system only the subwoofer FB-10 is driven by a single amplifier (monaural).

6. SPECIFICATIONS

Enclosure	Port radiation type
Speaker	16 cm (6.5") cone
Power Handling Capacity	Continuous pink noise: 60 W (40 Hz – 20 kHz), 20 W (40 – 100 Hz) Continuous program: 180 W (40 Hz – 20 kHz), 60 W (40 – 100 Hz)
Impedance	8 Ω
Sensitivity	83 dB (1 W, 1 m)
Frequency Response	40 – 100 Hz
Color	Black
Dimensions	700 (w) x 212 (h) x 212 (d) mm (27.56" x 8.35" x 8.35")
Weight	9 kg (19.84 lb)

Note: The design and specifications are subject to change without notice for improvement.

Traceability Information for Europe (EMC directive 2004/108/EC)

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