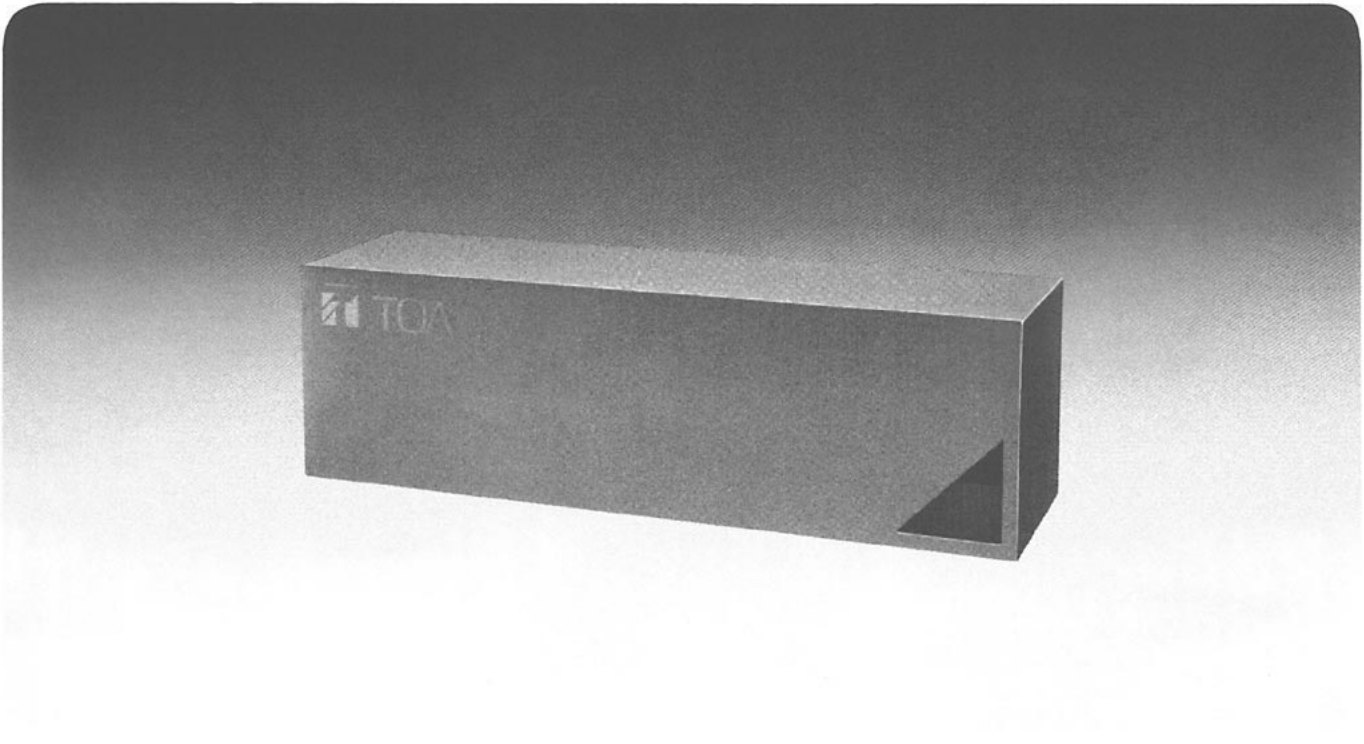


# PROFESSIONAL SOUND SYSTEM



## Mini Subwoofer System

## Model FB-10



### General Description

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

#### \*F-series Speaker System

- F-10W, F-10B
- F-150W, F-150G, F-150R
- F-300W, F-300G, F-300R

### Features

1. The FB-10 is a high input capacitance, mini subwoofer system using a 16 cm woofer.
2. By adopting a port radiation type enclosure, the FB-10 can reproduce super low frequency sound with less distortion despite its compact size.
3. The FB-10 can be installed on the wall or the ceiling with the optionally available BY-10 fitting.

### Specifications

**Enclosure:** Port radiation type

**Speaker:** 16 cm cone speaker

**Impedance:** 8Ω

#### Power Handling Capacity

**Continuous Pink Noise:** 60W (40-20,000Hz) 20W (40-100Hz)

**Continuous Program:** 180W (40-20,000Hz) 60W (40-100Hz)

**Sensitivity:** 83dB (1W/1m)

**Frequency Response:** 40Hz - 100Hz

**Finish (Enclosure):** Urethane coated (Black)

**Dimensions:** 700(W) x 212(H) x 212(D) mm

27.6(W) x 8.3(H) x 8.3(D) inches

**Weight:** Approx. 9 kgs (20 lbs.)

※ Specifications are subject to change without notice for improvements.



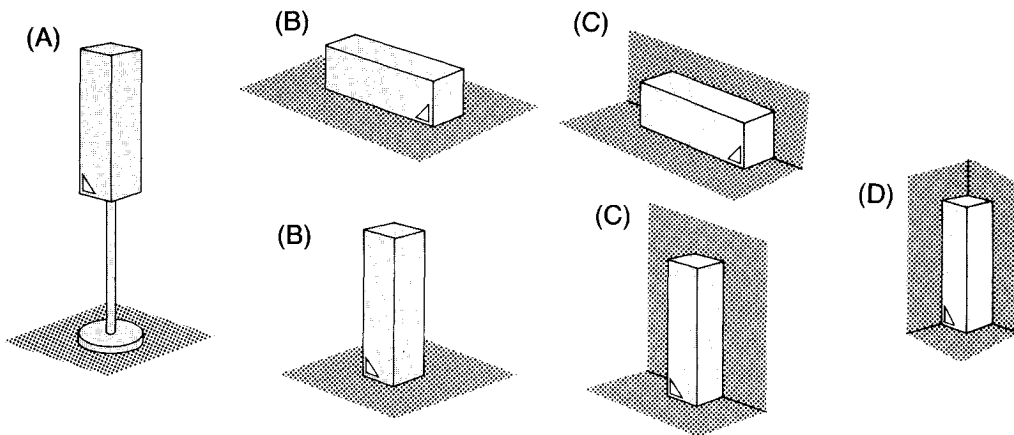
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## ● Installation

1. Wherever you install the system, the FB-10's exclusive capability of reproducing a low frequency range of 100Hz or less substantially lowers directional sensitivity; therefore, you are not able to detect from which direction the sound is coming. As such a low frequency sound with long wavelength is easy to diffracted, satisfactorily heavy and low frequency sounds can be obtained even if the system is installed in a location where it cannot be seen.  
Accordingly, you are free to set the system anywhere you like: for example, under the table or sofa, behind a counter, or on the side of a ceiling beam.

2. Since FB-10 reproduces non directional heavy and low frequency sounds, loudness can be enhanced if the system is installed in an appropriate location.

There are generally four patterns of installation as illustrated below. In the room where the system is installed as shown in illustration (A), there are no obstacles around the system and the room condition is similar to that of an anechoic room. Comparing the room condition shown in (B) with the above condition (A), the radiation space is half as wide and the sound pressure is about 3 dB higher. Under the condition illustrated in (C), the radiation space is a quarter of that in (A) and the sound pressure level is about 6 dB better. And in (D), the radiation space is one eighth of that in (A) and the sound pressure level is about 9 dB better. Since the installation method affects loudness as described above, it is strongly recommended to install the system along a wall or in the corner of a room.



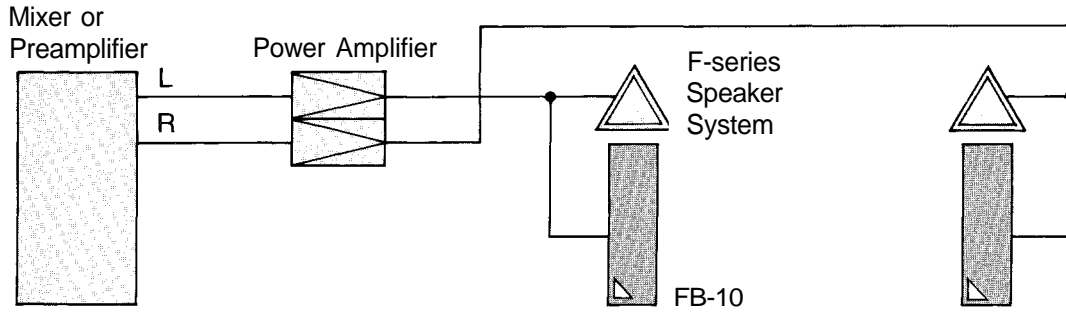
3. Before you install the system on the floor or along the wall, make sure those structures are sufficiently stable so as not to cause resonance.
4. Use an optionally available fitting BY-10 to install the system on the wall or ceiling.  
(Note: One BY-10 is available to install only one FB-10.)

## ● Cautions

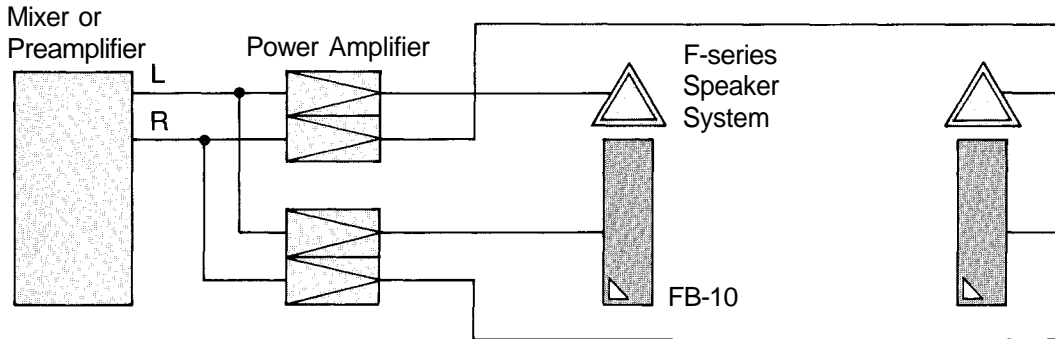
1. Set the crossover frequency to 100 Hz when applying the input by shutting the high frequency components with a channel divider, a graphic equalizer, or the like. Since the allowable input capacity lowers if you input the band limited signals, pay special attention to the setting of input level. (Refer to the specification.)
2. If an abnormal noise arises, immediately lower the input level to control the excessive input.
3. Install FB-10 so as not to block the duct part of the system. Further, make a clearance of at least 10 cm in front of the duct.

# ● Connection Diagram

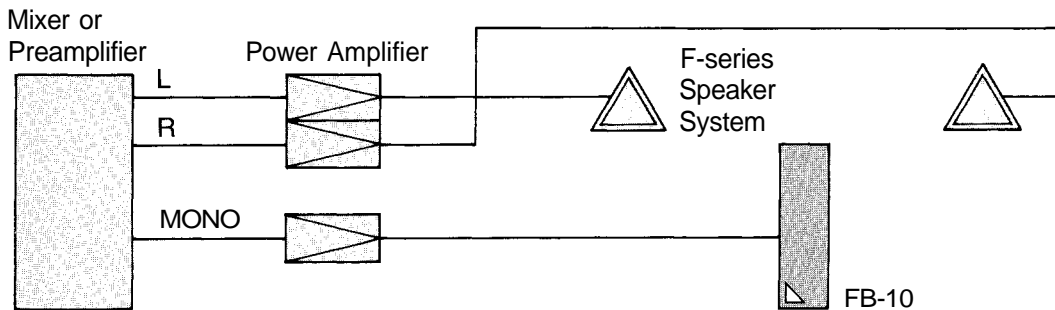
## 1. System using one stereo power amplifier (4 Ω drive)



## 2. System using two stereo power amplifiers (8 Ω drive)



## 3. 3-D (three dimension stereo reproducing) system



※ In this system only the sub woofer FB-10 is driven by monoral signals.



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