



BOSE®

FreeSpace® Model 1B Acoustimass® Module

General Description

The Bose® FreeSpace® Model 1B Acoustimass® module is designed to provide bass augmentation for business music systems comprised of FreeSpace® Model 8, Model 25, and Model 32 loudspeakers, the Bose 102® loudspeakers, and the FreeSpace 6 loudspeakers. When these systems are operated without bass augmentation, their frequency response is 80Hz to 16kHz. By adding the FreeSpace Model 1B Acoustimass module the bass response of these systems is extended down to 50Hz.

The Model 1B module is powered by an AmPlus™ business music amplifier. All Bose business music system speakers, including the Model 1B, require active equalization which is achieved through the use of an amplifier equalization card.

Engineers' and Architects' Specifications

The bass frequency reproducing component shall have a transducer complement of two 5.25 inch woofers in an Acoustimass loudspeaker enclosure. It shall have a power handling capability of 100 watts. It shall produce bass frequencies from 50Hz-180Hz. An amplifier equalization card shall provide active equalization for the bass frequency loudspeaker. When used in a system with high frequency satellites, the equalization card installed in the amplifier provides equalization for the system. The bass frequency reproducing component shall be composed of specially treated particle board in a grey or white finish. The input connector shall consist of a screw-type barrier terminal strip. A wire cover shall cover all wires. The dimensions shall be 18.9 inches (48 cm) wide x 14 inches (35.6 cm) high x 7.5 inches (19.1 cm) deep. The depth with hardware shall be 8.75 inches (22.2 cm). The loudspeaker shall weigh 23 lb (9.9 kg) with attached mounting bracket. The loudspeaker shall be the Bose Model 1B Acoustimass module.

Technical Specifications

Frequency Range
50Hz – 180Hz

Power Handling
100W

Transducer Complement
Two 5¼" woofers

Input Connections
Screw-type barrier strip terminals

Impedance
8Ω per channel
4Ω bridged

Dimensions
18.9"W x 14"H x 7.5"D
(48 x 35.6 x 19.1 cm)
Depth with hardware: 8.75" (22.2 cm)

Weight
23 lb (9.9 kg) with mounting bracket

Accessories

The Model 1B equalization card provides equalization for the Model 1B. It can be used with the AmPlus amplifiers and with the Bose 1800 amplifier. When the Model 1B is used with FreeSpace 6 loudspeakers, the Model 1B equalization card provides equalization for the high frequency loudspeakers and the bass module.

Warranty Information



The Bose FreeSpace Model 1B Acoustimass module is covered by a five-year, transferable limited warranty.

Enclosure Description

The Acoustimass module enclosure is composed of particle board in professional grey or Arctic white satin finish. A panel on the rear of the loudspeaker provides an elegant cover for all wires. A bracket is provided for wall mounting. The module can be painted with latex or oil-based paint. Detailed instructions on preparing and painting are available. Request fact sheet PN183073 Rev.01.

System Configuration

The FreeSpace Model 1B Acoustimass module is used for bass augmentation in commercial installations of FreeSpace business music systems. Professional installation and wiring is recommended. Bose does not recommend installation of the Model 1B module above the ceiling for these reasons:

- The module is not plenum rated.
- Installation above the ceiling gives less bass response in the room.
- Installation above the ceiling results in higher bass localization.

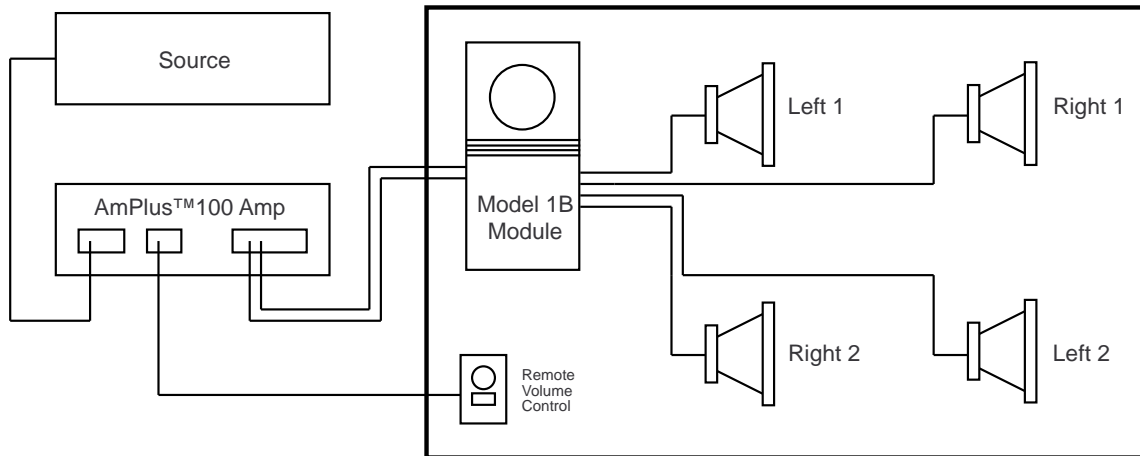
Safety Certification

The Model 1B Acoustimass module meets all regulatory standards for a surface-mount loudspeaker. It complies with ANSI/EIA 636 for electrical and mechanical safety and with EMC directives 82/336/EEC and 92/31/EEC for the EU.

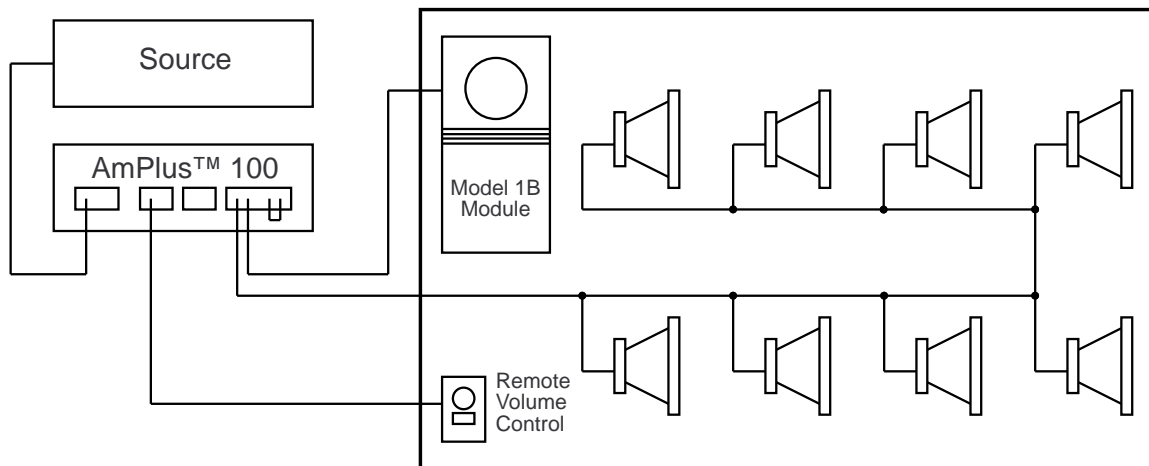
Features, Functions, and Benefits for the Business Owner

Feature	Function	Benefit
Acoustimass® technology.	Sound quality that your customers find pleasant.	Increased bass response from the Bose Model 1B Acoustimass module makes the music the customer hears deeper and richer. This results in a more pleasant, more natural, and more exciting sound. The Model 1B module brings the sound quality in your business closer to what your customers are used to in their homes.
Tapered port.	Reduced port noise, increased output.	The Model 1B module has a flared port which minimizes port noise when operating at near maximum output. The port also causes the Model 1B module to have significantly more output than previous Bose Acoustimass modules.
Virtually Invisible® loudspeaker.	Loudspeakers that do not interfere with the interior decor of the business.	The Model 1B module features rounded edges and is smaller than the previous Bose Acoustimass module. The bass enclosure is available in professional grey or white and can be painted to match architectural and interior design. There is flexibility in placing the module in a room because the bass frequencies are not easily localizable.
Quick-install installation bracket.	Minimal installation downtime.	Fast, easy, cost-effective installation. Custom-designed hardware is included for safe installation.

AmPlus™ 100 Amplifier Direct-coupled Model 1B Installation



AmPlus 100 Amplifier 70V/100V Model 1B Installation



FreeSpace™
BUSINESS MUSIC SYSTEMS

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Better sound through research.®

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JN97812 PN187961 Rev. 00 AM187961 Rev. 00 PC019038