BOSE®

The Bose® 501™ Series III Direct/Reflecting® Loudspeaker

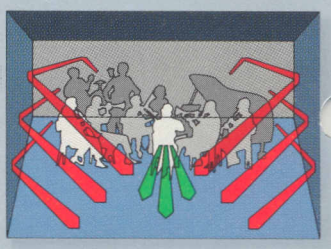
Functional design, outstanding performance.

The new Bose® 501™ Series III Loudspeaker offers the serious music listener a unique combination of value and performance in an elegant, floor-standing enclosure. Its exceptional clarity and powerful bass response are immediately apparent. And, like all Bose Direct/Reflecting® loudspeakers, the 501 Series III system captures the exciting 3-dimensional spaciousness of a live concert performance.

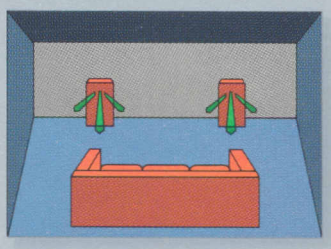
Reflected and Direct Sound

The design of the 501 Series III speaker is based on a university study initiated in 1956 by Dr. Amar G. Bose, Professor of Electrical Engineering at the Massachusetts Institute of Technology. This study established the concept of using a controlled balance of reflected and direct sound to reproduce the ambience of a live concert in home listening environments.

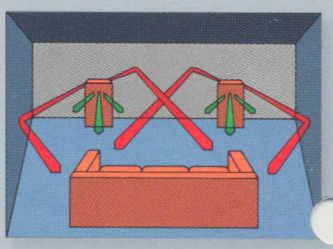
By reflecting music off the walls of your listening room at precise angles, 501 Series III speakers create a room-filling blend of reflected and direct sound similar to what you would hear at a live performance. This exclusive Bose technology gives you a satisfyingly wide and spacious stereo image, with none of the unnatural shrillness and "glare" often associated with conventional speakers. You can hear the complete frequency spectrum and separation of each instrument from virtually any seat in the room.



Most of the sound you hear at a live performance is reflected off the interior surfaces of the concert hall.



Conventional speakers radiate high-frequency sound directly into the listening room. Full stereo can only be heard in a small area directly between and in front of the speakers.

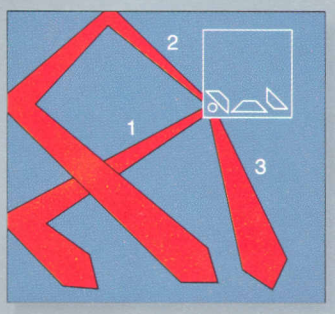


The patented mirror-image array of three drivers in each 501-III speaker radiates a lifelike balance of reflected and direct sound energy. Stereo separation is maintained over a broad listening area.

Direct Energy Control. 501™ Series III Loudspeakers also feature a Direct Energy Control that lets you adjust the distribution of high-frequency sound energy radiated by each speaker. With it, you can change the spatial performance of the 501 system to match almost any type of listening environment, speaker placement or program source.

For most kinds of music, and in rooms with side reflecting walls, you can set the Direct Energy Controls to their normal settings for an optimum balance of spaciousness and definition. Moving the controls outward increases the spaciousness of the stereo image, while the inner control settings provide a more concentrated and intimate presentation that is ideal for small-scale musical works or for rooms without nearby reflecting surfaces.

The Direct Energy Control changes the spatial properties of the 501 system by controlling the radiation pattern of the outward-firing tweeter above 3 kHz.



Each 501 Series III speaker can be set for a Normal sound pattern (1); Outward, for a more spacious stereo effect (2); or Inward, for a more intimate stereo effect or to retain tonal accuracy when there is no side reflecting wall (3).

Dual Frequency™ crossover network. Conventional crossover networks are often nothing more than simple filters. They divide the amplifier power among the woofers and tweeters by cutting off all of the music above and below a selected "crossover frequency." This relatively sudden transition between the drivers produces undesirable dips and peaks in the frequency response which can color the sound of reproduced music.

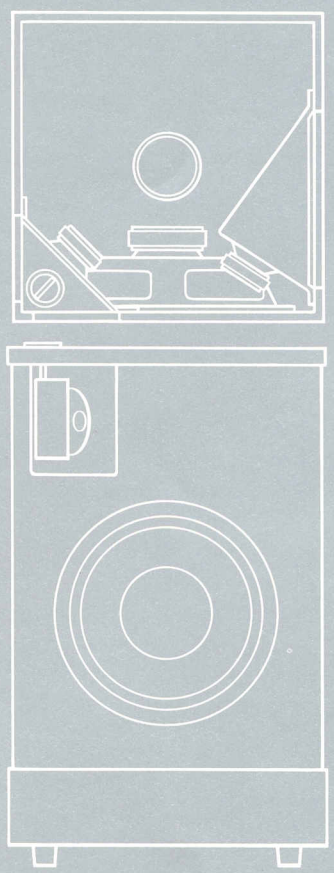
The Dual Frequency™ crossover network in the 501 Series III system provides a more gradual driver transition than conventional crossover designs. It precisely balances the phase and amplitude of the power distributed among the woofer and tweeters, allowing them to operate simultaneously over more than a full octave. The result is smooth, accurate tonal response and an unusually open, spacious-sounding midrange. Computer-grade mylar film capacitors in the crossover circuit assure far greater long-term stability than the electrolytic capacitors found in ordinary crossover networks.

501 Series III Loudspeakers are attractively styled to fit into almost any type of room decor.

Technical Information

High power handling capacity.
Bose® 501™ Series III Direct/Reflecting® Loudspeakers can reproduce the full dynamic range of high-technology analog and future digital recordings without strain or damage. Each 10″ long-excursion woofer operates in a computer-designed ducted-port enclosure, for exceptionally low distortion and deep, powerful bass response.

The twin 3″ tweeters are protected from the effects of high-frequency overload by current-sensitive devices that instantly absorb excessive transient energy without interrupting the music. And a built-in Thermal Protection System automatically attentuates the power from your amplifier or receiver whenever the safe operating temperature of the woofer is exceeded. Together, these fast-acting electronic circuits provide comprehensive protection of your 501 speaker investment, for years of maintenance-free enjoyment.



Features

- Direct Energy Control
- Dual Frequency™ crossover network
- Efficient ducted-port enclosure
- Automatic tweeter protection circuitry
- Thermal Protection System
- Syncom® II computer testing

Driver Complement
One (1) 10″ (25.4 cm) forward-facing woofer
Two (2) 3″ (7.6 cm) tweeters, inward- and outward-firing

Nominal Impedance
8 ohms

Crossover Transition Frequencies
1.5 kHz and 2.5 kHz

Power Rating
20 watts minimum, 100 watts maximum continuous

Cabinet
Walnut-grain vinyl veneer, 24″ H x 14½″ W x 14½″ D (61 x 36.8 x 36.8 cm)

The six computer-matched drivers in a pair of 501 Series III speakers are designed and manufactured by Bose as part of a totally integrated system of music reproduction.

Syncom® II computer testing. Your guarantee of quality.
No technology, however advanced, is an automatic guarantee of a speaker's performance. Such a guarantee can come only from a highly sophisticated manufacturing process that imposes tight controls on critical design parameters. The first instrument to perform this essential quality control testing in day-to-day production is the Bose Syncom II computer system.

The Syncom II computer measures the total radiated power output of each driver in a manner representing the way the completed speaker will operate in an actual listening environment. It accurately matches the values of crossover components to the characteristics of individual woofers and tweeters to insure that every 501 speaker will sound virtually identical to the laboratory reference model.

Because of the unprecedented accuracy of Syncom II computer testing, every Bose 501 Series III Loudspeaker carries a *full five-year warranty* on parts and labor. This warranty meets all Federal Trade Commission regulations and is far more valuable than the "limited warranty" offered by other speaker manufacturers. Ask your authorized Bose dealer for complete warranty information.

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Australia, Belgium, Canada, Denmark, England, France, Germany, Greece, Ireland, Italy, Japan, Netherlands, Spain, Switzerland, United States

BOSE®
Better sound through research.

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