



2 WAY INDOOR/OUTDOOR SPEAKER SYSTEM

MR5501B / MR-5501BT / MR-5501W / MR-5501WT
MR6501B / MR-6501BT / MR-6501W / MR-6501WT

Congratulations on the purchase of your **Sound Barrier MR Series** Indoor/Outdoor Speakers. These rugged, all-purpose speakers are designed to deliver reliable, high-quality audio while withstanding harsh outdoor environments. They feature weather-resistant construction, high-quality components, and exclusive acoustic design and tuning by **Sound Barrier** for outstanding performance and value.

Please read these instructions completely before you begin your installation.

1) Parts Inventory

Your speaker kit should include the following:

- 2 Sound Barrier Indoor/Outdoor MR series Loudspeakers
- 2 Color-matched mounting yoke brackets ("U" Brackets)
- 4 Endcap Screws

2) Installation Tools

Speakers can be installed with the following simple tools:

- Pencil
- #2 Phillips screwdriver
- Wire cutters & wire stripper/crimp tool
- Drill & drill bits

3) Speaker Location

Because of their well-behaved off-axis response and excellent dispersion, your new Sound Barrier MR series speakers are less critical to position than most loudspeakers. Simply place them approximately 5-8 feet apart wherever you desire music for the best possible performance. If you will be installing your speakers outdoors, select locations facing your listening area that are protected from rain, snow, and direct sunlight for extended product life.

4) Speaker Installation

Your MR series indoor/outdoor speakers are compact, but substantial in weight. They should be mounted into solid structure, not drywall. If drywall mounting is required, use high-strength anchors designed for heavy loads such as light fixtures. To avoid personal injury, please make sure the location you choose for mounting your indoor/outdoor speakers can safely support their weight.

To mark the proper locations for drilling, remove the yoke-style mounting brackets from the rear of the speaker enclosures by removing the endcap screws. Place the yoke bracket against the mounting surface and choose the holes you want to use for mounting. Then use a pencil to mark the hole locations on the mounting surface prior to drilling. Remove the yoke bracket before drilling the holes, to avoid damage to the yoke bracket.

After drilling the mounting holes, install the yoke bracket firmly to the mounting surface using the supplied mounting hardware.

CAUTION: Be certain that there are no electrical wires, water pipes, or heating ducts in the planned installation area before you begin drilling. If there is an electrical outlet nearby, turn off the circuit breaker to avoid possible injury.

5) Speaker Cable

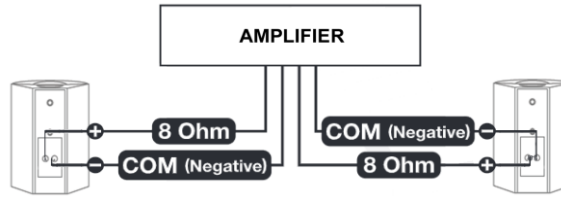
We recommend using a high-quality oxygen free copper two-conductor speaker cable. For low-impedance applications (8 ohms) and runs less than 50 feet we recommend 16-gauge cable, and for longer runs we recommend 14 gauge or larger cable. (Wire size is less important for 70-volt distributed audio applications but may still affect performance.) Note that most municipalities require the use of CL2 rated speaker cable for cable runs through walls and ceilings. If mounting the speakers outdoors, you may wish to fill the hole that the speaker wire passes through with a caulking material to prevent water intrusion and cold air infiltration.

6) Speaker Connection & Setup

When connecting the wires to the speakers, be sure to observe proper polarity for the best sound. Most CL2 rated speaker cable has red and

black conductors within the jacket, so connect the red wire to the red speaker terminal and the black wire to the black speaker terminal. The red (+) terminal on the back of the speaker should correspond to the red (+) terminal on the amplifier, and same for the black terminal. The speaker terminals are of the push-type, so push in on each terminal to allow the wire to be inserted. Torqueing the terminal in any way is not necessary.

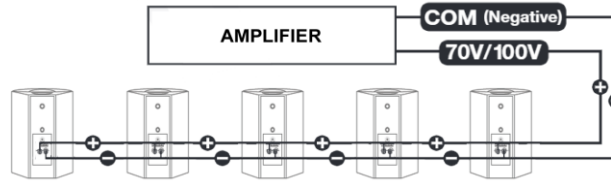
2 SPEAKERS CONNECTED TO AMPLIFIER WITH 8-OHM OUTPUT



5 SPEAKERS CONNECTED IN PARALLEL USING 16W TAPS

Note: If you are installing a distributed 70-volt (70V) system (MR5501BT, MR5501WT, MR6501BT, MR6501WT), use the selector knob on the rear of the speaker to choose the transformer tap that provides the desired acoustic output. When the 70V model is used with a 70V system, do not select the "8-Ohm" tap.

The total number of speakers multiplied by the tap value cannot exceed the output power (in watts) of your 70V/100V transformer. The example below shows 5 total speakers. Using 16W taps, you will need an amplifier with AT LEAST 80 watts (5 x 16W = 80W).



7) Final Installation

To install the speakers into their final location, place them into the yoke brackets and align the threaded inserts in the enclosure for the endcap screws with the matching holes in the yoke brackets, then install the endcap screws. Select an angle for the enclosure that will allow the entire listening area to be within line-of-sight of the tweeter dome, which is visible through the grille. Finally, tighten the endcap screws by hand but Do not over-tighten as too much torque may strip the steel threaded Insert or the plastic knob and the speaker will not seat securely in the yoke bracket or may produce audible vibration.

8) Specifications

Model Number	MR5501B/W	MR5501BT/WT	MR6501B/W	MR6501BT/WT
Description	Indoor / Outdoor Loudspeaker			
Woofers	5.25" Polypropylene Woofer		6.5" Polypropylene Woofer	
Tweeter	1" Mylar Dome Tweeter		1" Neodymium Dome Tweeter	
Frequency Response	50Hz-20kHz		40Hz-20kHz	
Impedance	8 Ohm			
70V Taps	N/A	2W, 4W, 8W and 16W	N/A	2W, 4W, 8W and 16W
Power Handling (RMS / PEAK)	75W / 150W		90W / 180W	
SPL 1W/1m	89 dB		91 dB	
Dimensions	9.25" x 6.5" x 6.5"		11.25" x 7.5" x 8"	
Color	B = Black W = White		BT = Black WT = White	
Weight	4.5 LB / 2.05 KG		6.3 LB / 2.9 KG	

9) ONE YEAR LIMITED WARRANTY

Sound Barrier is committed to producing the highest quality equipment. We back up that commitment with a One Year to Limited Lifetime Warranty on any manufacturing defects in material and workmanship. This warranty applies to the original owner and requires you to present a copy of your proof of purchase at the time of the claim. This warranty is limited to Sound Barrier products only and excludes loss of personal property, loss of use, accidental damage, misuse, or normal wear and tear. In the event of a warranty claim, Sound Barrier is not responsible for shipping costs.

For more information on our Warrant Warranty contact us at sales@soundbarrier.com or visit <https://www.soundbarrier.com/parts-repairs>