

Outdoor Speakers

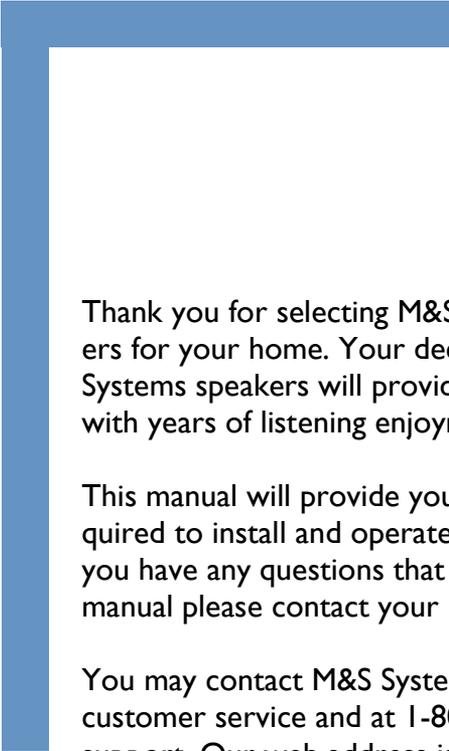


Part Number

- *WS5 Outdoor speakers with mounting brackets*

Owners Manual

 **m&s**[™]
fine home acoustics[™]



Thank you for selecting M&S Systems outdoor speakers for your home. Your decision to purchase M&S Systems speakers will provide you and your family with years of listening enjoyment.

This manual will provide you with the information required to install and operate your new speakers. If you have any questions that are not answered in this manual please contact your installer or M&S Systems.

You may contact M&S Systems at 1-800-421-1587 for customer service and at 1-800-366-9422 for technical support. Our web address is www.mssystem.com.

Product Specifications

The M&S Systems WS5 outdoor speakers provide a corrosion resistant, all weather design with high quality sound. The WS5 speakers offer many features including:

- Aluminum grill and mounting brackets
- Brass inserts and mounting hardware
- 5-way gold plated binding posts
- Resonance free enclosure

The technical specifications for the WS5 speakers are shown in Table I, below.

| Table I Technical Specifications | |
|---|---------------------------------------|
| | WS5 Outdoor Speakers |
| Woofers | 5 1/4" rubber surround/ long throw |
| Tweeter | Titanium dome |
| Frequency Response | 65Hz—20kHz |
| Maximum Power Rating | 70 watts |
| RMS Power | 35 watts |
| Nominal Impedance | 8 Ohm |
| Height | 9 5/8" |
| Width | 7 1/4" |
| Depth | 6 1/2" |
| Weight | 10lbs 2oz (per pair) |

UNPACKING YOUR SPEAKERS

After carefully unpacking your speakers, the carton and the packing material should be saved for possible use later. If any speaker appears to be damaged, do not attempt to repair or to connect the unit to the amplifier. Repack the speaker and notify your distributor or M&S Systems for replacement or repair.

SPEAKER PLACEMENT

The WS5 outdoor speakers can be mounted on an outdoor canopy or wall or placed on a shelf. They should be separated by 6 to 8 feet for good stereo separation. The brackets should be attached to a stud or mounted using an anchor-screw for a secure mount.

MOUNTING YOUR SPEAKERS

The WS5 speakers are packaged with mounting brackets that allow for either vertical or horizontal mounting.

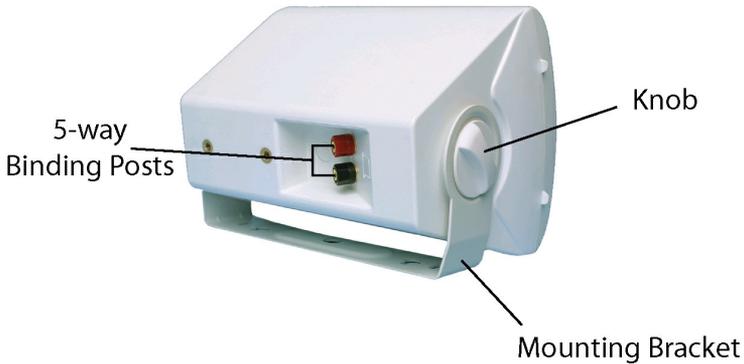
NEVER MOUNT THE BRACKETS TO SHEETROCK WITHOUT SOME TYPE OF ANCHOR.

When attaching the mounting brackets to the speaker, first connect the speaker wire, then attach the mounting bracket.

To connect the mounting bracket, secure the speaker to the bracket using the supplied knob. Line the bracket up with the speaker and screw the knob into each end of the speaker to tighten the speaker to the

bracket (refer to Figure 1).

Figure 1—Mounting bracket installation



CONNECTING YOUR SPEAKERS

The WS5 speakers come with 5-way, gold plated, binding posts. The binding posts are color-coded for polarity—red is positive (+) and black is negative (-). Follow the steps below for connecting your WS5 speakers:

1. Turn off the receiver or amplifier and unplug it from the power outlet.
2. Use a 2-conductor 16-gauge speaker wire (M&S part number MSI6X5) for runs up to 100 feet. For additional information on speaker wire runs contact our Technical Support team at 1-800-366-9422.

NOTE: REMOVE ABOUT 2 INCHES OF THE OUTSIDE JACKET FROM BOTH ENDS OF THE WIRE THEN STRIP APPROXIMATELY 1/2 INCH OF THE INSULATION FROM EACH CONDUCTOR AT THE SPEAKER END. USE THE RECOMMENDED STRIP LENGTH AS SPECIFIED IN THE AMPLIFIER/RECEIVER INSTALLATION MANUAL

FOR THE OTHER END.

3. Connect one wire from the black/negative (-) terminal of the left speaker to the black/negative (-) terminal on the left speaker output channel of your amplifier or receiver.

NOTE: MOST SPEAKER WIRE IS COLOR CODED OR RIBBED ON ONE SIDE FOR EASY IDENTIFICATION OF THE POSITIVE AND NEGATIVE LEADS.

4. Connect the other wire from the red/positive (+) terminal of the left speaker to the red/positive (+) output terminal on the left channel of your amplifier or receiver.
5. Repeat these steps when hooking up your right channel speaker with the right channel of your amplifier or receiver.
6. Plug in your amplifier or receiver, turn it on and start enjoying your new WS5 outdoor speakers.

SERVICE & TROUBLESHOOTING

M&S Systems is committed to producing high quality products for the home. If you have any questions or problems with your new speakers or if they are not operating properly, contact your installer or call M&S Systems at 1-800-366-9422 and speak with one of our technical support specialists.

You may also visit our web site at www.mssystem.com for a frequently asked questions list that may provide you with quick assistance with any troubleshooting or service concerns.

M&S SYSTEMS Limited 2-Year No-Fault Product Warranty

M&S SYSTEMS warrants for 2 years all products to be free of defects (M&S SYSTEMS honors the 10-Year No-Fault warranty for AirVac Gold power units). The warranty period begins from either (1) the date of "first user" purchase of this product or (2) the first close of escrow date on a residence in which this new product was originally installed. This warranty extends to the original user of the product and to each subsequent owner of the product during the term of this warranty. M&S SYSTEMS will repair or replace, at its option, parts and materials at no charge. Parts supplied under this warranty may be new or rebuilt at the option of M&S SYSTEMS.

If, during the limited warranty period, it appears as though this product contains a defect, which is covered by this limited warranty, call our toll free service number before dismantling the product (1-800-366-9422). Remember to attain a Return Authorization Number (RAN) before returning any product to M&S SYSTEMS. Send the product freight pre-paid and insured to our service center for warranty repair. You will be advised on shipping instructions when you call the toll free service number. M&S Systems will return the repaired product freight pre-paid within the U.S.A. The installing dealer or distributor may assist you, at your choice and expense, with returning product for repair. Please include a brief description of the problem and a dated proof-of-purchase receipt with any product that is returned for warranty repair. ANY PRODUCT RETURNED WITHOUT A RETURN AUTHORIZATION NUMBER WILL BE REFUSED.

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