

 **West Marine**

Owner's Manual

Speakers



**4" Full Range
3-Way Speakers**

Model 18006668

Introduction

Introduction

The Model 18006668 speakers are designed as multi-purpose speakers and will deliver accurate high fidelity sound in exterior or interior environments. Weather-resistant design and construction provide optimum durability for permanent or temporary outdoor use.

For simplicity, we will call your AV receiver or amplifier the “receiver.”

Important Note

The grilles are not designed or intended to be removed. Do not remove the grilles from your speakers. There are no user-serviceable parts behind the grille and removal will damage the speaker.

Warranty Coverage

You must have proof of purchase to receive warranty service. Please keep your original sales receipt and be prepared to provide this receipt in the event you require service, as your original receipt is considered the best proof of purchase and indicates the date you purchased your West Marine product.

For Your Records

Model: _____

Dealer Name: _____

Dealer Phone: _____

Purchase Date: _____

Note: You may want to keep your original sales receipt or a photo copy with this installation/owner’s manual.

Speaker Placement

Mounting Placement

If mounting is desired, mounting both speakers on a common solid surface facing the listening area will provide the best audio results. Do NOT mount speakers on wall surfaces that have hazards concealed behind them, such as electrical wires or plumbing. Always mount speaker on surfaces that are sturdy enough to support the speakers' weight, and make sure they cannot fall or cause injury.

Speaker Placement

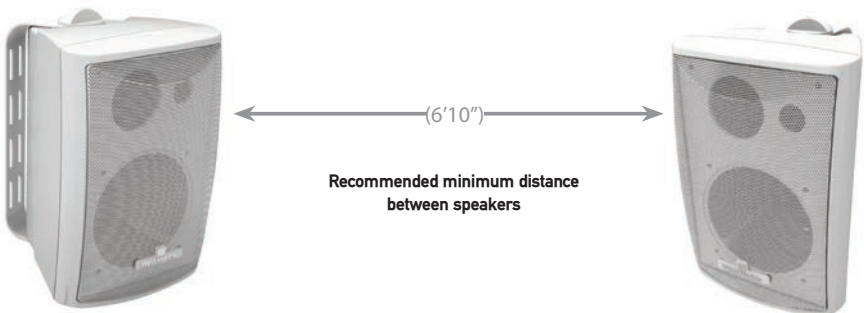
Your speakers can be placed in many convenient locations in your home or patio area - as stereo pairs on either side of your receiver - as surround speakers in home theater surround sound systems - in your computer room to enhance the multimedia experience - or as remote speakers.

Wall and Ceiling Placement

For wall and ceiling applications, mounting brackets are included. In addition, the Model 18006668 series speakers have a rear inset keyhole for surface hanging.

Experiment for Better Sound

You should experiment with various placements. Room acoustics can produce large apparent differences in the sound when small changes in the placement are employed. For example, although the speaker may be located at any height above the floor, directing the tweeter toward ear level (32" – 36") or angling the entire speaker toward the listening position often provides the most realistic imaging experience. The amount of bass perceived increases as you move a speaker closer to solid intersecting room surfaces (walls, ceiling, floor).



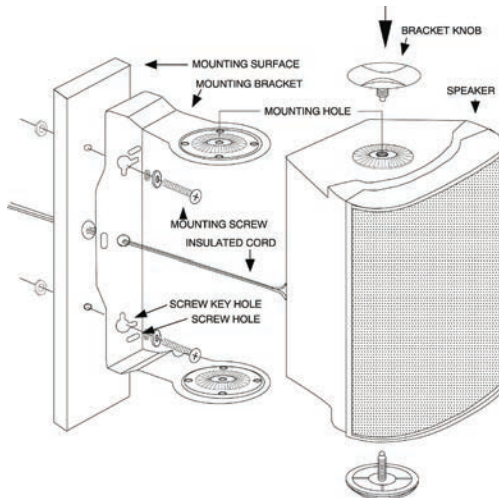
Placement & Mounting Speakers

The Model 18006668 series speakers have been tested for environmental usage and are weather resistant, but not waterproof. Occasional moisture will not affect performance. The speakers should be allowed to ventilate and dry after water exposure.

The speakers can be placed permanently outdoors for year-round enjoyment. To maximize speaker life, position in areas protected from the elements, such as the underside of eaves and overhangs. Popular locations include decks, gazebos, porches, atriums, garages, and covered spa areas. For temporary placement, remove the speaker from the mounting brackets and replace the thumb screws to maintain stability if placing the speakers on end.

Mounting Your Speakers

For ease of installation, the Model 18006668 series speakers include an easily removable mounting bracket. Once mounted, the bracket allows the speaker to be pivoted to its ideal location. The included thumb screws knobs will hold the selected speaker position when properly tightened. Avoid over tightening the knob. Before attempting the installation, carefully evaluate the mounting surface, making sure that its composition and construction are strong enough to support the load safely. If you are unsure about the type of mounting hardware for your installation, consult a professional contractor or a knowledgeable hardware store. The anchors and screws to attach the speakers are not included and must be purchased separately. The hardened steel brackets are suitable only for attaching the speaker to walls or ceilings constructed of solid wood, brickwork, concrete, hollow buildings block or wood studs.



Do not mount the bracket to nonreinforced plaster sheetrock gypsum board). Once the bracket is secure, reattach the speaker using the thumb screws included.

Connecting Speakers

Speaker Wire - Typical speaker wire has a pair of separate speaker wires with insulating jackets that are molded together. West Marine recommends the use of two conductor 18-gauge speaker wire to connect your speakers to your receiver. Measure enough wire to reach from your receiver to each speaker plus additional length to allow moving the speakers or receiver without having to disconnect the wires. When connecting the speakers in a stereo configuration, the wire length should be similar. One length should not be dramatically longer or shorter than the other. Maintaining similar wire lengths will provide superior sound quality.

Polarity - Speaker wires are marked for polarity consistency so that you can determine the positive and negative identity of the individual wires within the molded pair insulation. Polarity is shown by either a color stripe on the insulation, by ridges molded into one side of the insulation, the color of the insulation case around the wire, or by the colortype or colors of the wires/wire itself (copper or silver).

Important - Always connect speaker wire using the positive (+) terminal on the receiver to the positive (+) terminal, and the negative (-) terminal on the receiver to the negative (-) terminal. All speakers in a system must be connected with the same respective polarity. The speaker inputs are located on the rear-mounted terminal cup on the back of the speaker.

Terminal Type - The Model 18006668 series utilizes a push-pin design. Gently depress the colored lever and insert the stiped end of the wire directly into the opening located in the center of the input housing.

The speaker wires must be inserted into the connector and tightened properly to the speaker inputs. Do not over-tighten. Do not allow the positive and negative speaker wire from the receiver to make contact, as this will cause a short.

It is recommended that the wire insulation be stripped back approximately 3/8", allowing the wire conductor to make proper connection. Make sure that the wire insulation is stripped back far enough so that the bare speaker wire will make a proper connection to the metal clip inside the terminal and be securely held in place. This can be confirmed visually.



Specifications

Frequency Response	100 Hz-20kHz
Woofers	4" (100mm) Polyelite PVA Surround
Midrange	40mm polypropylene
Tweeter	20mm Piezo Dome
Sensitivity	85.5 dB (2.83v @ 1 meter)
Nominal Impedance	4 ohms
Power Handling*	50 watts RMS - 200 watts peak
Dimensions (Inches)	8.25 x 5.25 x 5.25 H x W x D
Weight	2.8 lbs.
Finish	White

* Power handling is based on amplifier volume never being set above the point of audible distortion.

Troubleshooting

Distortion/Knocking

If you hear obvious distortion from the speakers, immediately lower the volume level of your receiver. Those sounds often indicate that either the receiver or the speaker is being overdriven, and damage can result in playing your source material (music-CDs-DVD-MP3) at high volume levels for prolonged periods of time. You should also avoid turning the bass or treble controls fully up and using your "Loudness button" when the volume level is at or above normal listening levels. Note: The Loudness button on most receivers is designed to add depth when your system is being used for background music or at very low volume.

Distorted or unnatural sound can indicate poor connections, defective electronics, damaged source material or speaker failure. If only one of your speakers has poor sound quality, check the speaker wire and audio connections. If that doesn't fix the problem, try putting each speaker in place of one another (swapping). If the sound remains poor on the suspect speaker after swapping location and the distortion moves with the speaker to the new location, the speaker may be the problem. If the distortion remains in the original location then the problem is elsewhere in your audio/video system.

West Marine Limited Warranty

What Does This Limited Warranty Cover?

West Marine warrants to the original retail purchaser of the West Marine product, where the purchase is made in the United States, that the product will be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

How Long Does This Limited Warranty Last?

This limited warranty is valid for twelve (12) months from the date of the original retail purchase from West Marine within the United States (the "Limited Warranty Term").

The warranty period is not extended if we repair or replace a warranted product or any parts. West Marine reserves the right to change the availability of limited warranties, at its discretion, but any changes will not be retroactive and will only apply to subsequent purchases.

What Does This Limited Warranty Not Cover?

This limited warranty does not cover:

- Software.
- Commercial or industrial use or operation.
- Normal maintenance items or normal wear and tear.
- Problems resulting from fire or submergence in water or other liquids.
- If the product was damaged, modified or altered by you.
- If the product was used as part of any conversion kits, subassemblies, or any configurations not appropriate or contemplated for this product or its use.
- If damage or loss occurring during return shipment of the product to West Marine or its authorized service representative.
- If the product was subject to improper service, repair, installation, storage, maintenance, alteration or application.
- Problems that result from accident, neglect, abuse, misuse or issues with electrical power.
- Problems caused by accessories, parts or components added to the product that are not appropriate for this product or its use.

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE (OR JURISDICTION TO JURISDICTION). WEST MARINE'S RESPONSIBILITY FOR MALFUNCTIONS AND DEFECTS IN HARDWARE IS LIMITED TO REPAIR OR REPLACEMENT AS SET FORTH IN THIS WARRANTY STATEMENT. ALL EXPRESS AND IMPLIED WARRANTIES FOR THE PRODUCT INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN TIME TO THE LIMITED WARRANTY TERM (AS SPECIFIED ABOVE). NO WARRANTIES, WHETHER EXPRESS OR IMPLIED, WILL APPLY AFTER THE LIMITED WARRANTY TERM HAS EXPIRED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

WE DO NOT ACCEPT LIABILITY BEYOND THE REMEDIES PROVIDED FOR IN THIS LIMITED WARRANTY OR FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES INCLUDING, WITHOUT LIMITATION, ANY LIABILITY FOR THIRD-PARTY CLAIMS AGAINST YOU FOR DAMAGES, FOR PRODUCTS NOT BEING AVAILABLE FOR USE, FOR PERSONAL INJURY AND/OR FOR LOST PROPERTY, DATA OR SOFTWARE. OUR LIABILITY AND THE MAXIMUM AMOUNT FOR WHICH WE ARE RESPONSIBLE WILL BE NO MORE THAN THE AMOUNT YOU PAID FOR THE PRODUCT THAT IS THE SUBJECT OF A CLAIM. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

What Must I Do To Keep the Warranty in Effect?

- You must keep your receipt or other appropriate documentation as proof of the date of sale and purchase.
- You must keep your serial number or order number for the product. This is found on the product itself or on your receipt.
- You must not do any of the things that will make the warranty invalid as provided for in this warranty statement.
- You must use, install, maintain and operate the product in accordance with published specifications and the user's manual.

West Marine Limited Warranty

What Do I Do If I Need Warranty Service?

- Before the warranty expires, please call us at 1-800-BOATING. Please also have your West Marine serial number or order number available.
- When you contact us, we will issue a Return Material Authorization Number for you to include with your return. We will also provide you the address of where to ship the product.
- You must return the product to us in its original or equivalent packaging, prepay shipping charges, and insure the shipment or accept the risk if the product is lost or damaged in shipment.

What Will West Marine Do?

During the Limited Warranty Term, if the product you return to us proves to be defective in materials or workmanship and not for the reasons which would otherwise disqualify it (as explained above), we will:

- Repair the product or, if we are unable to repair it, replace it with a comparable product that is new or refurbished;
- Or, as an alternative, at West Marine's option, we will refund you the original purchase price;
- If we repair or replace the product, we will return the repaired or replacement product to you; and
- Pay to ship the repaired or replacement product to you if you use an address in the United States (excluding Puerto Rico and U.S. possessions and territories). Otherwise, we will ship the product to you freight collect.

If we determine that the problem is not covered under this warranty, we will notify you of this when we return your product to you to the address you provide us in the United States (excluding Puerto Rico and U.S. possessions and territories).

We use new and refurbished parts made by various manufacturers in performing warranty repairs and in building replacement parts and systems. Refurbished parts and systems are parts or systems that have been returned to West Marine, some of which were never used by a customer. Replacement parts and systems are covered for the remaining time left in the Limited Warranty Term for the product you bought. West Marine owns all parts removed from repaired products.

Maintenance is the Owner's Responsibility

Cleaning, polishing, lubricating, replacing filters, tuning, replacing worn parts, using your purchased product according to the user's manual, and regularly maintaining your purchased product is your responsibility.

What if I purchased a Plus Protection Plan?

Service will be provided to you under the terms of the Plus Protection Plan contract. Please refer to that contract for details on how to obtain service.

How State Law Relates to the Warranty

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



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