



INSTRUCTION MANUAL

SONANCE MARINER® SERIES

SINGLE STEREO TECHNOLOGY® (SS)

WEATHER-RESISTANT SPEAKERS

INTRODUCTION

Thank you for purchasing Sonance Mariner® weather-resistant speakers. When properly installed, these speakers will give you many years of outdoor entertainment pleasure. To get the most out of your new speakers, please read this manual thoroughly before you begin installation.

The directions in this manual apply to the Mariner 62SS and Mariner 52SS models.

PARTS LIST

Your Sonance Mariner speakers include the following:

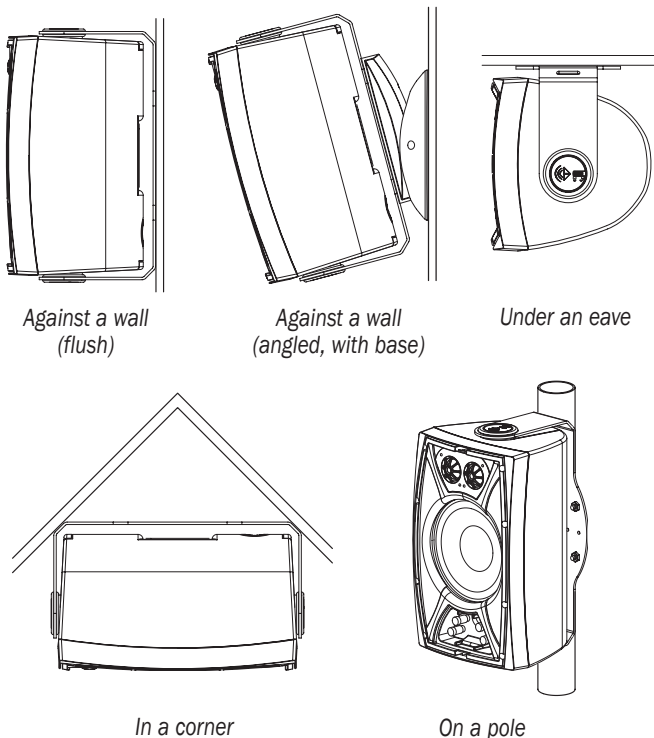
- (1) Sonance Mariner SS speaker
- (1) Grilles
- (1) Wiring terminal covers
- (1) Fastmount Bracket
- (2) Mounting bracket base halves
- (1) Plastic inserts (to fill bracket indentations when mounting brackets are not used)
- (1) Hardware package

SPEAKER PLACEMENT

Sonance Mariner SS speakers combine the outputs of your amplifier's left and right stereo channels, and play both stereo channels from just one speaker. A single Mariner SS speaker to deliver outstanding performance in areas where listeners will be moving around, or where a pair of stereo speakers would be impractical.

The Mariner SS speakers are highly weather-resistant, and when mounted outdoors will perform exceptionally well for years even under adverse weather conditions.

The new Mariner mounting system makes it easy to mount the speakers in a variety of positions and locations:



The best performance is obtained by placing the speaker at ear level, facing the listeners.

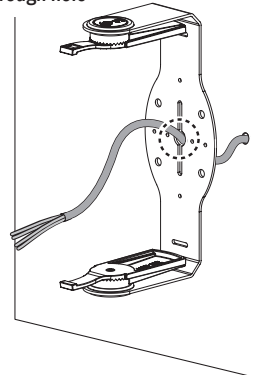
- If you are mounting the speaker above or below ear level, pivot it up or down to direct the sound towards the listeners.
- You can orient the speaker either horizontally or vertically without affecting the sound quality.

CONNECTING AND ASSEMBLING THE SPEAKERS

WARNING: Turn the amplifier's power OFF until you have completed all of the connections and have determined that they are correct. (If the amp's AC plug is accessible we recommend that you unplug it from the wall outlet to avoid accidental turn-on and possible damage to the amplifier.)

1. In most cases you will be able to attach the mounting bracket directly to the mounting surface. Run the speaker wires from the amplifier to the speaker location and through the hole in the mounting bracket (and mounting base, if used).

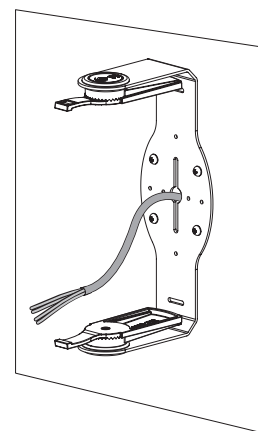
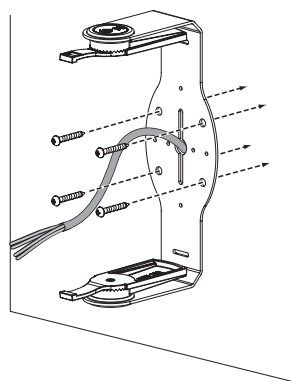
1. Pass wire through hole



Note: To increase water resistance and make installation easier, the speaker wire terminals are located on the Mariner speakers' front panel. Be sure to leave enough wire at the speaker location to feed through the tunnel in the speaker enclosure and connect to the terminals on the front.

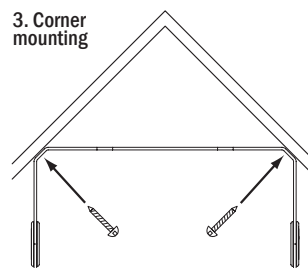
2. Attach the mounting bracket to the mounting surface using hardware (not included) that is appropriate for the type of surface.

2. Attach bracket



- If the installation requires that the speaker be mounted in a corner, attach the bracket with hardware through the slots in the angled corners as shown to the right.

3. Corner mounting





INSTRUCTION MANUAL

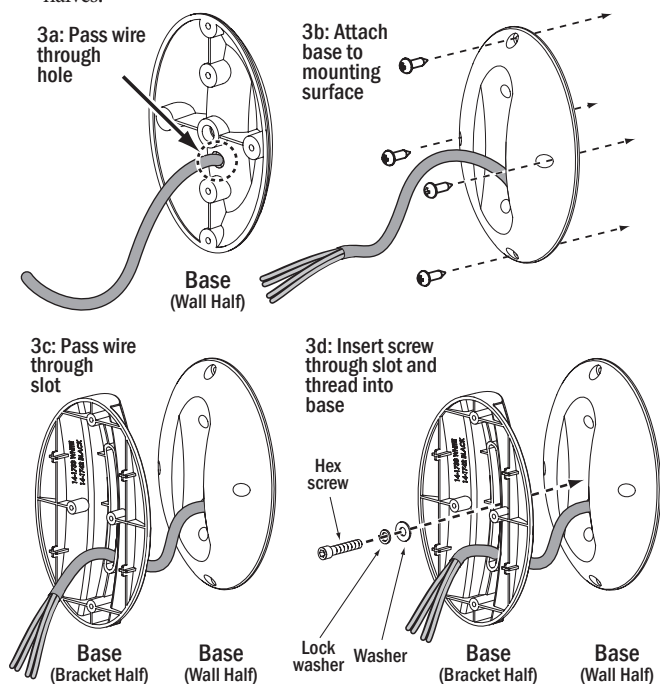
SONANCE MARINER® SERIES

SINGLE STEREO TECHNOLOGY® (SS)

WEATHER-RESISTANT SPEAKERS

3. If the installation requires that the speaker be mounted vertically and that it pivot in the vertical dimension (or be mounted horizontally and pivot in the horizontal dimension), you must use the included mounting base in addition to the bracket:

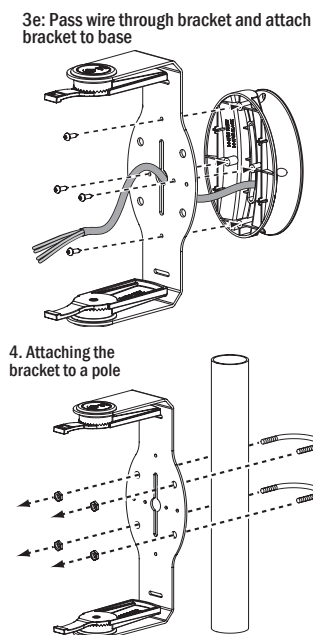
- 3a. Run the speaker wire through the hole in the wall half of the base.
- 3b. Attach the wall half of the base to the mounting surface using hardware (not included) that is appropriate for the type of surface.
- 3c. Pass the speaker wire through the slot in the bracket half of the base.
- 3d. Use the included hardware and allen wrench to assemble the base halves.



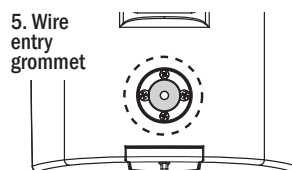
3e. Use the included 4 self-tapping screws to attach the bracket to the mounting base.

- Before attaching the bracket to the base, pass the speaker wire through the hole in the center of the bracket.
- To adjust the speaker, loosen the hex screw with the supplied allen wrench, pivot the bracket/base and tighten the hex screw.

4. If the installation requires that the speaker be mounted on a pole you can attach the brackets to the pole using 2½" U-bolts (not included).



5. Feed the speaker wires from the bracket into the wire entry grommet on the back of the speaker, through the wire tunnel and out the opening on the speaker's front panel.

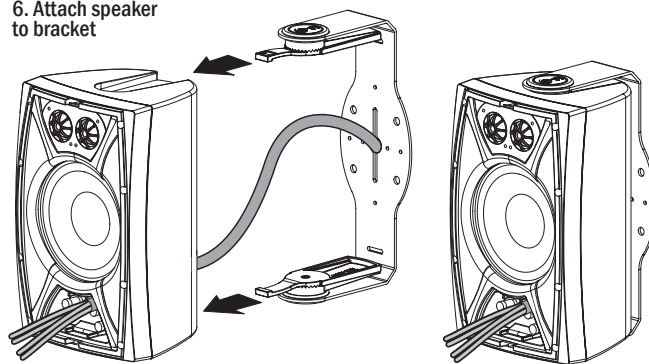


- The grommet forms a water-resistant seal around the speaker wire.
- Make sure there is enough slack in the wire to allow the speaker to pivot on the bracket.

6. Slide the speaker onto the bracket until the locks snap into place.

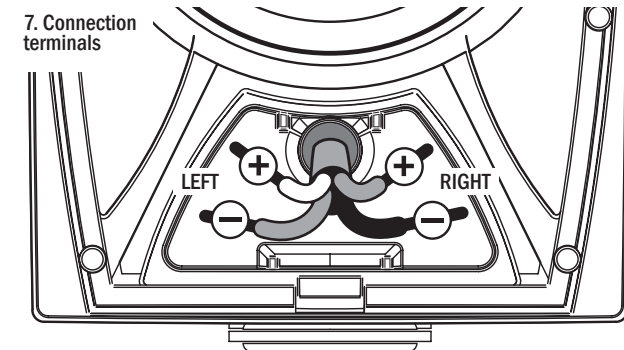
- Pull enough wire through the front of the speaker to allow connection to the terminals.

6. Attach speaker to bracket



7. Connect the speaker wires to the speaker's terminals:

- a. Strip about ½" of insulation from each conductor and twist the strands together or tin them with solder.
- b. Press-down on the tops of the connectors to open them.
- c. Insert the wires into the connector holes as shown.
- d. Release the connectors.



- The binding post connectors can accept wire up to 14 gauge.
- Double-check that you connected all of the wires properly (amplifier '+' to speaker '+'; amplifier '-' to speaker '-') at all connections.

IMPORTANT: Be sure not to let any stray '+' and '-' wires touch each other. Touching wires can cause a short-circuit that could damage your amplifier.



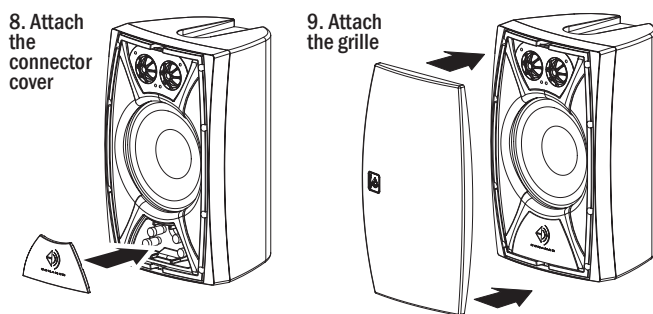
INSTRUCTION MANUAL

SONANCE MARINER® SERIES SINGLE STEREO TECHNOLOGY® (SS) WEATHER-RESISTANT SPEAKERS

8. Fit the wiring connector cover into the recess in the speaker's front panel. The cover should fit tightly, but can be removed and replaced if the speaker needs to be disconnected.

9. Fit the grille onto the speaker.

- The Sonance logo can be removed, rotated 90° and replaced in its centering dimple. This maintains the correct logo orientation on a speaker that is mounted vertically.



10. If you're placing the speaker on a shelf without using the bracket, attach the 2 plastic inserts to the speaker's top and bottom ends so they snap into place.

- If you wish to mount the speaker on its bracket at a later time you can remove the inserts by pulling-down the tabs behind the grille.

Note: All Sonance Mariner speakers are compatible with Omnimount 20.5 Series speaker brackets. The 20.5 series includes several different mounts that accommodate a wide range of different mounting requirements. For more information contact your Sonance Authorized dealer or go to www.omnimount.com.

WIRE GAUGE

Extra resistance in the speaker wire can make a speaker sound less dynamic and reduce definition of the bass frequencies. In extreme cases, it can even attenuate high frequencies. Also, amplifier power is wasted in wire with extra resistance, reducing your system's maximum output level.

To prevent degrading sound quality, the total wire resistance should be less than 10% of the speaker's impedance. This means that for an 8-ohm speaker, the total resistance of the wire should be less than 0.8 ohms.

Refer to the following table when selecting the proper wire gauge for your system:

Wire resistance in Ohms vs. length of cable run						
Distance in Feet	50'	100'	150'	200'	250'	300'
20 gauge	1.04	2.07	3.11	4.14	5.18	6.22
18 gauge	.65	1.30	1.96	2.61	3.26	3.91
16 gauge	.41	.82	1.22	1.63	2.04	2.45
14 gauge	.26	.52	.77	1.03	1.29	1.55
12 gauge	.16	.32	.49	.65	.81	.97
10 gauge	.10	.20	.31	.41	.51	.61

PAINTING THE SPEAKER AND GRILLE

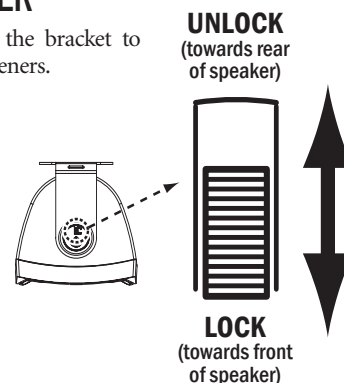
All Mariner speakers feature a tough polypropylene enclosure that can be painted. Sonance recommends using a weather-resistant outdoor paint and a spray gun to paint the Mariner speakers.

1. If it has already been installed, remove the grille from the speaker.
2. To protect the speaker driver units during painting, place the grille on a piece of cardboard and trace around its outline. Then cut the cardboard just inside of the trace line and fit this "paint plug" into the speaker's baffle. (Be careful not to damage the driver components while fitting the paint plug.)
3. Paint the speaker the desired color according to the paint manufacturer's instructions. Remove the paint plug after the paint has thoroughly dried.
4. Remove the Sonance logo before painting the grille. Paint the grille separately from the speaker using very thin paint (5:1 thinner:paint ratio). Avoid plugging the grille holes with excess paint.
5. After the paint has thoroughly dried, re-attach the Sonance logo to the grille and attach the grille to the speaker.

PIVOTING THE SPEAKER

You can rotate the speaker in the bracket to direct the sound towards the listeners.

1. Unlock the slide locks on the speaker pivots by moving them towards the rear of the speaker.
2. Rotate the speakers to the desired position.
3. Lock the slide locks by moving them towards the front of the speaker.



SPECIFICATIONS

Mariner 62SS

Tweeter:	Two 1" (25mm) Polyurethane dome
Woofers:	6½" (165mm) One-piece black Polypropylene cone with a rubber surround, dual voice coil
Frequency Response:	55Hz – 20kHz ±3dB
Impedance:	8 ohms nominal; 6 ohms minimum
Power Handling:	5 watts minimum; 80 watts maximum
Sensitivity:	89dB SPL (2.83V/1 meter)
Grille Material:	Perforated aluminum;
Dimensions (H x W x D):	12" x 7½" x 7½" (305mm x 191mm x 181mm)
Shipping Weight:	7 lbs (3.2 KG) per each

Mariner 52SS

Tweeter:	Two 1" (25mm) Polyurethane dome
Woofers:	5¼" (133mm) One-piece black Polypropylene cone with a rubber surround, dual voice coil
Frequency Response:	65Hz – 20kHz ±3dB
Impedance:	8 ohms nominal; 6 ohms minimum
Power Handling:	5 watts minimum; 70 watts maximum
Sensitivity:	88dB SPL (2.83V/1 meter)
Grille Material:	Perforated aluminum
Dimensions (H x W x D):	10¼" x 6½" x 6" (260mm x 165mm x 153mm)
Shipping Weight:	6 lbs (2.75 KG) per each



INSTRUCTION MANUAL

SONANCE MARINER® SERIES SINGLE STEREO TECHNOLOGY® (SS) WEATHER-RESISTANT SPEAKERS

TECHNICAL ASSISTANCE AND SERVICE

If you any have questions about the operation or installation of this product, please call our Technical Assistance Department on any business day at (800) 582-0772 or (949) 492-7777; from 7 a.m. to 5 p.m., PST.

If your speakers should need repair or service, contact your Sonance Authorized Dealer for help, or use the following procedure:

1. Prior to calling, note the product's model number, serial number, purchase date, and the name and address of the dealer where you purchased the product.
2. Contact our Technical Assistance Department at the above number(s) and describe the problem the unit is experiencing. If applicable, they will issue a Return Authorization (RA) Number.

IMPORTANT: YOU MUST HAVE PRIOR AUTHORIZATION TO RETURN YOUR SPEAKER TO SONANCE!

3. If you're directed to return the unit to Sonance for repair, pack the unit in its original shipping carton. If needed, you can obtain replacement packaging from us for a small charge. Note: it is best if you place the box into an additional outer "overcarton" before shipment to minimize a chance of theft in shipment. Please include a copy of the original bill of sale inside the package.
4. Contact United Parcel Service, Federal Express, or RPS to arrange prepaid (not collect) shipping. Do not use the U.S. Mail Service.

IMPORTANT: FREIGHT COLLECT SHIPMENTS WILL BE REFUSED.

5. Write the RA Number on the outside of the shipping carton.

6. Ship the packaged unit to:

Quality Assurance Department
Sonance
212 Avenida Fabricante
San Clemente, CA 92672-7531

LIMITED LIFETIME WARRANTY COVERAGE (U.S. ONLY)

Sonance warrants to the original retail purchaser only that this Sonance product will be free from defects in materials and workmanship, provided the speaker was purchased from a Sonance Authorized Dealer.

Defective products must be shipped, together with proof of purchase, prepaid insured to the Authorized Sonance Dealer from whom they were purchased, or to the Sonance factory at the address listed on this instruction manual. Freight collect shipments will be refused. It is preferable to ship this product in the original shipping

container to lessen the chance of transit damage. In any case, the risk or loss or damage in transit is to be borne by the purchaser. If, upon examination at the factory or Authorized Sonance Dealer, it is determined that the unit was defective in materials or workmanship at any time during this warranty period, Sonance or the Authorized Sonance Dealer will, at its option, repair or replace this product at no additional charge, except as set forth below. If this model is no longer available and can not be repaired effectively, Sonance, at its sole option, may replace the unit with a current model of equal or greater value. In some cases where a new model is substituted, a modification to the mounting surface may be required. If mounting surface modification is required, Sonance assumes no responsibility or liability for such modification. All replaced parts and product become the property of Sonance. Products replaced or repaired under this warranty will be returned to the original retail purchaser, within a reasonable time, freight prepaid.

This Warranty does not include service or parts to repair damage caused by accident, disaster, misuse, abuse, negligence, inadequate packing or shipping procedures, commercial use, voltage inputs in excess of the rated maximum of the unit, or service, repair or modification of the product which has not been authorized or approved by Sonance. This Warranty also excludes normal cosmetic deterioration caused by environmental conditions. This Warranty will be void if the Serial Number on the product has been removed, tampered-with or defaced. This Warranty is in lieu of all other expressed warranties. If the product is defective in materials or workmanship as warranted above, the purchaser's sole remedy shall be repair or replacement as provided above. In no event will Sonance be liable for any incidental or consequential damages arising out of the use or inability to use the product, even if Sonance or a Authorized Sonance Dealer has been advised of the possibility of such damages, or for any claim by any other party.

Some states do not allow the exclusion or limitation of consequential damages, so the above limitation and exclusion may not apply. All implied warranties on the product are limited to the duration of this expressed Warranty. Some states do not allow limitation on the length of an implied warranty. If the original retail purchaser resides in such a state, this limitation does not apply.

EXCLUSIONS AND LIMITATIONS

The warranty set forth above is in lieu of all other warranties, express or implied, of merchantability, fitness for a particular purpose, or otherwise. The warranty is limited to Sonance products registered herein and specifically excludes any damage to loudspeakers and other allied or associated equipment which may result for any reason from use with this product. Sonance shall, in no event, be liable for incidental or consequential damages arising from any breach of this warranty or otherwise. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.



SONANCE®

©2005 Sonance. All rights reserved.

Sonance is a registered trademark of Dana Innovations, Inc. Sonance Mariner is a registered trademark of Sonance.

Sonance • 212 Avenida Fabricante • San Clemente, CA 92672-7531, USA • (800) 582-7777 or (949) 492-7777 • FAX: (949) 361-5151 • Technical Support: (800) 582-0772

www.sonance.com

33-3792 06/05