INSTRUCTION MANUAL
ORIGINAL SERIES LARGE SINGLE STEREO TECHNOLOGY SPEAKER

SONANCE®

Introduction

Thank you for purchasing Sonance Original Series Single Stereo Technology (SST) speakers. When properly installed, these speakers will give you many years of entertainment pleasure. To get the most out of your new speakers, please read this manual thoroughly before you begin installation.

To achieve the best performance, Sonance recommends that these speakers be installed by a Sonance Authorized Dealer/Installer.

SAFETY WARNING:

THESE SPEAKERS HAVE FASTMOUNT® TABS THAT PREVENT THE SPEAKER FROM FALLING OUT OF THE MOUNTING HOLE DURING THE INSTALLATION PROCESS.

THE EDGES OF THE FASTMOUNT TABS ARE VERY SHARP. USE CAUTION WHEN HANDLING THE SPEAKER.

See *Installation* (page 2) for complete information about the FastMount tabs.

Parts List

Your Sonance Original Series SST speaker includes the following:

- (1) Sonance Original Series SST Speaker
- (1) Paintable Grille
- (1) Plastic paint plug to protect speaker during painting
- (1) Mounting cutout template (in packaging)

Speaker Placement

Sonance Original Series SST speakers are ideal for use in hallways, bathrooms, closets, or in any location where listeners will be moving around and a pair of stereo speakers would be impractical.

The location of the speaker should be determined by considering the primary listening location as well as aesthetic values. Because a single Original Series SST speaker reproduces both stereo channels from a single location, they will deliver outstanding performance from an extremely wide variety of mounting locations.

For optimum results, contact your Authorized Sonance Dealer for advice.

Distributed Audio Placement

Sonance Original Series speakers have very smooth and predictable off-axis response, increasing placement options while providing excellent coverage in distributed audio systems. The chart below shows how far apart the speakers can be placed while still providing good coverage. The distances are based on ear heights of 62" (157cm) for standing listeners and 40" (102) for seated listeners.

Speaker Spacing for a Distributed Audio System		
	Standing Listener	Seated Listener
8-foot ceiling	5.7 ft (1.7 m) apart	9.5 ft (2.9 m) apart
10-foot ceiling	9.7 ft (3.0 m) apart	13.5 ft (4.1 m) apart
12-foot ceiling	13.7 ft (4.2 m) apart	17.5 ft (5.3 m) apart
14-foot ceiling	17.7 ft (5.4 m) apart	21.5 ft (6.6 m) apart

Wire Gauge

Extra resistance in the speaker wire can make speakers 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
Distance in Meters	15.2	30.5	45.7	61	76.2	91.5
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

PREPARING THE INSTALLATION LOCATION

All Sonance speakers are designed to be relatively insensitive to variations in enclosure volume. To achieve the ultimate performance from your speakers, a section of the ceiling bay can be sectioned-off to form a back box. Building such an enclosure will create a dramatic improvement in your speaker's bass performance and power handling.

Ideal back box volume requirements:

Original Series SST   2.0 ft³ (.055 m³)

Insulating the Ceiling Cavity

You can reduce sound transmission to adjacent rooms and further improve speaker performance by inserting a sheet of unfaced fiberglass insulation over the back of the speaker. To reduce noise produced by unsupported drywall, install fiberglass insulation in the ceiling bays adjacent to the speaker location.

Optional Original Series Retrofit Enclosures

For installations where it is not possible to section-off the ceiling bay to form a back box (such as when you are retrofitting the speakers into an existing ceiling), you can effectively reduce sound transmission into adjacent rooms by fitting the speakers with Large Round and Square Retrofit Enclosures (part # 92243). This enclosure will noticeably reduce sound "spillover" from the rears of the speakers into adjacent rooms and spaces.

Installing the Speakers

For more information about flangeless installation contact your Authorized Sonance Dealer or visit www.sonance.com.

Before Installation: New Construction

For installations in new construction, Sonance recommends using a Flex bracket (part# 92247) to reserve a location for the speaker. The Flex bracket is nailed or screwed to the studs and serves as a guide for the drywaller so that the speaker hole will be in the desired location once the drywall is installed.

Flex brackets are compatible with the RotoLock™ mounting system.

Before Installation: Retrofit

1. Determine the location for the speaker (see *Speaker Placement* on page 1).

2. Perform an obstruction survey to be certain that there are no studs, conduit, pipes, heating ducts or air returns that will interfere with the speaker.

3. **Mounting space requirements:** 10⅛" (257mm) diameter by at least 5⅞" (149mm) mounting depth.

4. Position the included cutout template where the speaker is to be located and pencil an outline on the ceiling.

   • If you are unsure about obstructions, drill a small hole in the center of the outline and insert a coat hanger wire into the hole to feel-around for possible obstructions.

5. Cut the hole using a drywall saw, and run the speaker wires.

Installation

Sonance Original Series SST speakers feature exclusive FastMount™ tabs and an integral RotoLock® mounting system for quick mounting directly into existing ceilings and walls.

WARNING: The edges of FastMount tabs are very sharp. Use caution when handling the speaker.

1. Remove the paint plug from the speaker. Connect the speaker wire to the terminals on the speaker. Double-check that you connected amplifier + to speaker + and amplifier – to speaker –.

2. Make sure all the RotoLock clamps are in the full clockwise position so that they are tucked within the mounting hole's border. Insert the speaker into the hole in the ceiling. The RotoLock system can accommodate a maximum ceiling material thickness of 1¼" (32mm).

• The FastMount tabs will prevent the speaker from falling out of the mounting hole, allowing the installer to let go of the speaker to pick-up tools or other items (see *Figure 1*).
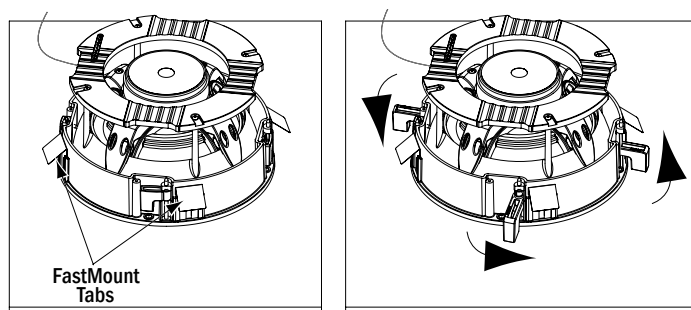

Figure 1: Original Series SST Installation

Note: The FastMount tabs are designed for one-time use only. If the speaker is removed from the mounting hole the FastMount tabs will disconnect and remain inside the wall.

3. Tighten the four screws on the front of the speaker baffle. The RotoLock clamps will automatically rotate into position and begin clamping the speaker (see *Figure 1*).

   • When you notice resistance on the screws the speaker has been clamped successfully.

   Note: The speaker flange is designed to flex and conform to any small imperfections in the ceiling surface. Do not tighten the screws so much so that the flange bows-out.

Important: Always use low-torque settings; NEVER over-tighten.

4. Attach the grille after the speaker has been installed. Insert about half of the grille into the groove at the edge of the speaker. Gently fit the remaining half of the grille by working around the speaker, fitting the grille into the groove as you go.

   Note: You can adjust the torque applied to the RotoLock screws to achieve a proper grille fit.

Painting The Speakers and Grilles

You can paint the speakers and grilles before installing them, which will eliminate the "paint scar" if the speaker ever needs to be removed for service. You can also paint the speakers after installation, but before the grilles are attached. Original Series SST speakers come from the factory fitted with a plastic 'paint plug'. Use the paint plug to protect the speaker drivers while the flange is being painted along with the wall.

Sonance suggests always painting the grille separately from the speaker. Before painting, carefully remove the under-grille cloth. It is held in place with a light tacking glue that makes it easy to remove.

Spray the grilles with thinned paint (5 parts thinner to 1 part paint), being careful not to plug the holes. Too heavy a coat of paint on the grille will adversely affect the sound of the speaker.

Once the grilles and flange are painted and dry, replace the under-grille cloth, remove the paint plug from the speaker flange and install the grille.
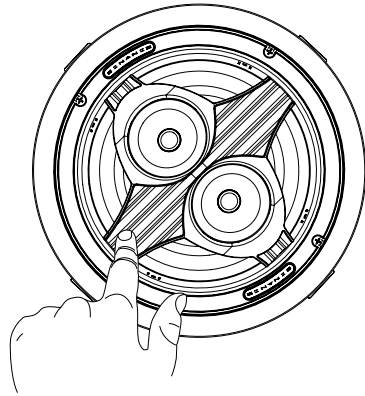
Adjusting the Speakers

Pivoting Woofer

Original Series SST speakers have a pivoting woofer assembly. These pivoting drivers allow you to direct sound toward or away from the listening area, depending on the requirements of the installation.

To pivot the woofer:

Apply pressure on the outer edge of the Sonic Eye support bracket, as shown in *Fiure 2*. Do not touch or apply pressure to the woofer cone.

Figure 2: Pivoting the Woofer

Specifications

Dimensions (Dia. x D):	$11^{9}/_{16}$" x $5^{7}/_{8}$" (294mm x 149mm)
Cutout Diameter:	$10^{1}/_{8}$" (257mm)
Shipping Weight:	8 lbs. (3.6kg) each

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 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 a package delivery service such as United Parcel Service or Federal Express to arrange prepaid (not collect) shipping. Do not use the U.S. Postal Service.

IMPORTANT: Freight collect shipments will be refused.

5. **Write the Return Authorization 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

Sonance warrants to the first end-user purchaser that this Sonance-brand product ("Product"), when purchased from an authorized Sonance Dealer/Distributor, will be free from defective workmanship and materials for the life of the Product. Sonance will at its option and expense either repair the defect or replace the Product with a new or remanufactured Product or a reasonable equivalent.

EXCLUSIONS

TO THE EXTENT PERMITTED BY LAW, THE WARRANTY SET FORTH ABOVE IS IN LIEU OF, AND EXCLUSIVE OF, ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IS THE SOLE AND EXCLUSIVE WARRANTY PROVIDED BY SONANCE. ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY, IMPLIED WARRANTY OF FITNESS FOR USE, AND IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE ARE SPECIFICALLY EXCLUDED. No one is authorized to make or modify any warranties on behalf of Sonance.

The warranty stated above is the sole and exclusive remedy and Sonance's performance shall constitute full and final satisfaction of all obligations, liabilities and claims with respect to the Product. IN ANY EVENT, SONANCE SHALL NOT BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL, ECONOMIC, PROPERTY, BODILY INJURY, OR PERSONAL INJURY DAMAGES ARISING FROM THE PRODUCT, ANY BREACH OF THIS WARRANTY OR OTHERWISE.

This warranty statement gives you specific legal rights, and you may have other rights which vary from state to state. Some states do not allow the exclusion of implied warranties or limitations of remedies, so the above exclusions and limitations may not apply. If your state does not allow disclaimer of implied warranties, the duration of such implied warranties is limited to period of Sonance's express warranty.

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Your Product Model and Description: Large Round Original Series Single Stereo Technology Speaker

Additional Limitations and Exclusions from Warranty Coverage: The warranty described above is non-transferable, applies only to the initial installation of the Product, does not include installation of any repaired or replaced Product, does not include damage to allied or associated equipment which may result for any reason from use with this Product, and does not include labor or parts caused by accident, disaster, negligence, improper installation, misuse (e.g. overdriving the amplifier or speaker, excessive heat or cold or humidity, outdoor installation), or from service or repair which has not been authorized by Sonance.

Obtaining Authorized Service: To qualify for the warranty, you must (1) contact your authorized Sonance Dealer/Installer or call Sonance Customer Service at (800) 582-0772 within the warranty period, (2) obtain a return merchandise number (RMA), and (3) deliver the Product to Sonance shipping prepaid during the warranty period, together with the original sales receipt, invoice or other satisfactory proof of purchase.

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