

SONANCE

BEYOND SOUND

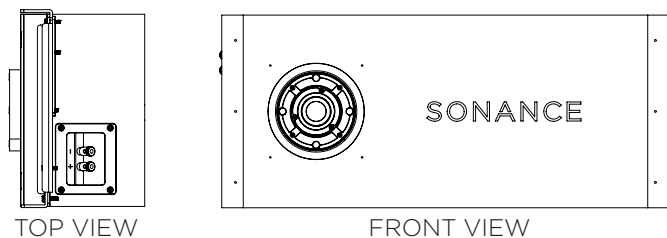
SMALL APERTURE SERIES

SA4-66

INSTALLATION MANUAL

SMALL APERTURE SERIES SPEAKERS

SA4-66



INTRODUCTION

Thank you for selecting Sonance Small Aperture Series Speaker. Please take the time to carefully read through the manual and study the illustrations. This extra time can lead to trouble-free operation and continued musical enjoyment.

IMPORTANT: Read this section in its entirety before attempting use of speaker.

IMPORTANT SAFETY INSTRUCTIONS

Always follow these basic safety precautions when using your speakers to reduce the risk of fire, electric shock, and injury to people or objects.

1. Read all the safety and operating instructions before operating the speaker and retain them for future reference.
2. Adhere to all warnings and precautions listed on the speaker and in the operating instructions.
3. Follow all operating instructions.

PREPARATION

Determine the required parts and pieces for your application based on the required parts chart. After installing the SA4-66 Speaker Enclosure, jump to the section within this document for finishing instructions on your specific application.

See chart on following page.

IMPORTANT: The Sonance SA4-66 speaker is installed behind the surface during pre-construction framing, or as a renovation or remodel installation. Both installations will require drywall installation, patching, mudding, and/or final finish to the surface.

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- SA4-SP-T-SS-KIT Spacer Kit for Micro Trim or Solid Surface (Round and Square)

***See page 7 for detailed list, replacement parts, and installation accessories**

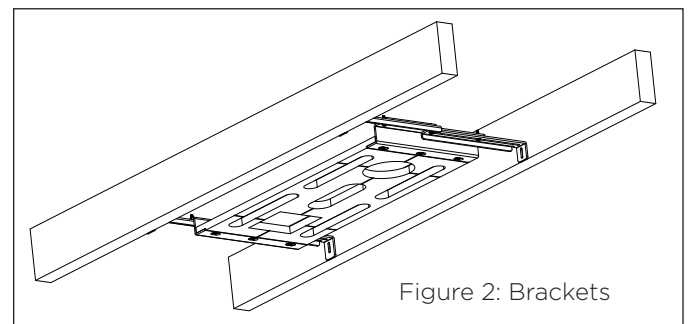
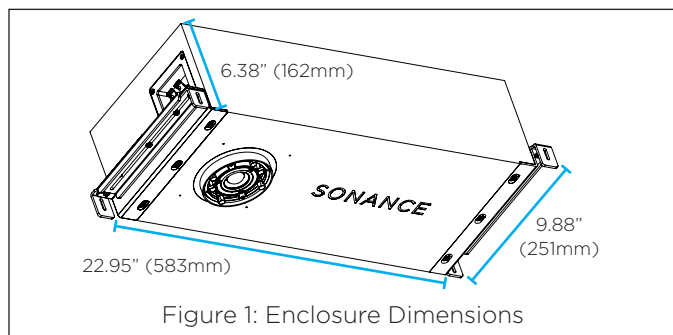
APPLICATION	REQUIRED PARTS	MODEL	SKU
DRYWALL, MICRO TRIM, ROUND	SPEAKER ENCLOSURE	SA4-66 ENC	93711
	MICRO TRIM/SOLID SURFACE SPACER KIT	SA4-SP-T-SS-KIT	93718
	SPEAKER MODULE	SA4-66 MOD	93710
	MICRO TRIM ROUND GRILLE	SA4-GRILLE-RND-KIT-T	93720
DRYWALL, MICRO TRIM, SQUARE	SPEAKER ENCLOSURE	SA4-66 ENC	93711
	MICRO TRIM/SOLID SURFACE SPACER KIT	SA4-SP-T-SS-KIT	93718
	SPEAKER MODULE	SA4-66 MOD	93710
	MICRO TRIM SQUARE GRILLE	SA4-GRILLE-SQR-KIT-T	93721
DRYWALL, FLUSH, TRIMLESS, ROUND	SPEAKER ENCLOSURE	SA4-66 ENC	93711
	FLUSH DRYWALL SPACER KIT	SA4-SP-FLUSH-GYP-KIT	93719
	TRIM KIT	SA4-TRIMKIT-FLUSH-GYP-RND	93712
	SPEAKER MODULE	SA4-66 MOD	93710
DRYWALL, FLUSH, TRIMLESS, SQUARE	TRIMLESS ROUND GRILLE	SA4-GRILLE-RND-NT	93725
	SPEAKER ENCLOSURE	SA4-66 ENC	93711
	FLUSH DRYWALL SPACER KIT	SA4-SP-FLUSH-GYP-KIT	93719
	TRIM KIT	SA4-TRIMKIT-FLUSH-GYP-RND	93712
SOLID SURFACE, FLUSH, ROUND	SPEAKER MODULE	SA4-66 MOD	93710
	TRIMLESS SQUARE GRILLE	SA4-GRILLE-SQR-NT	93726
	SPEAKER ENCLOSURE	SA4-66 ENC	93711
	MICRO TRIM/SOLID SURFACE SPACER KIT	SA4-SP-T-SS-KIT	93718
SOLID SURFACE, FLUSH, SQUARE	SPEAKER MODULE	SA4-66 MOD	93710
	TRIMLESS ROUND GRILLE	SA4-GRILLE-RND-NT	93725
	SPEAKER ENCLOSURE	SA4-66 ENC	93711
	MICRO TRIM/SOLID SURFACE SPACER KIT	SA4-SP-T-SS-KIT	93718
SOLID SURFACE, FLUSH, SQUARE	SPEAKER MODULE	SA4-66 MOD	93710
	TRIMLESS SQUARE GRILLE	SA4-GRILLE-SQR-NT	93726

INSTALLING THE SA4-66 SPEAKER ENCLOSURE (CEILING JOIST BAY, ALL SURFACE MATERIALS)

REQUIRED PARTS

- SA4-66 Speaker Enclosure
- SA4-66 Bracket
- Six (6) Wood Screws
- Laser Level (optional)
- Screwdriver or Drill

1. Select the desired location for your SA4-66 speaker, ensuring proper space to accommodate the dimensions of the enclosure with desired positioning of the opening for the module. Use a laser level to ensure alignment with other speakers and ceiling elements such as lighting (see Figure 1).



2. Use the provided SA4-66 bracket to position and preserve the speaker location (see Figure 2).
3. Use a screwdriver to loosen the bracket on both ends to make the bracing adjustable within the ceiling joist or stud bay.
4. Secure the bracket between the two joists using the included wood screws.
5. Use a block of wood to level the bracket with the joists on each side, ensuring that the bracket is even (see Figure 3).

NOTE: The bracket should not extend into the room beyond the plane of the joists. You will use spacers to account for surface depths in a later step.

DRYWALL/GYPSUM BOARD INSTALL WITH MICRO TRIM GRILLE

REQUIRED PARTS

- SA4-66 Spacers
 - SA4-66 Speaker Module | 93710
 - SA4-66 Round Grille Kit | 93720 or
 - SA4-66 Square Grille Kit | 93721
1. Determine the surface depth and select the appropriate spacers. Spacers may be stacked together along with the included 1mm shims to accommodate the required depth from the speaker opening to the final drywall surface (see Figure 6).

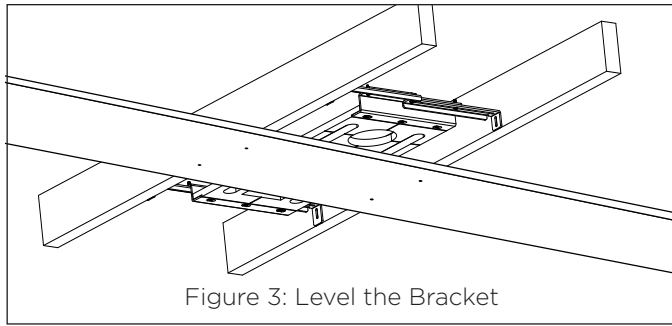


Figure 3: Level the Bracket

6. Adjust the bracket positioning to align the cross hairs with surrounding room lines and elements as desired. If finishing with a square trim later, this will be critical to achieve grille alignment.
7. Remove the screws on the front of the bracket, three on each end, to remove the MDF bracket from the bracket frame (see Figure 4). These screws can be discarded.

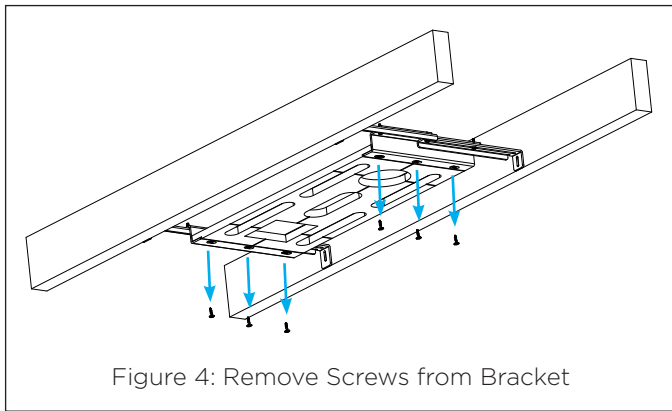


Figure 4: Remove Screws from Bracket

8. Insert the SA4-66 speaker enclosure into position behind the bracket frame, setting it in place with the module opening facing out in the desired orientation. Make sure that the lip of the enclosure catches on the lip of each end of the bracket frame.
9. Secure the bracket frame to the speaker enclosure with the provided new wood screws, three on each end. Do not reuse the shorter screws removed from the bracket earlier. Adjust the positioning as needed to retain the desired cross hair alignment.
10. Run speaker wire from the amplifier location to the speaker location and connect the positive to the red spring terminal and the negative to the black spring terminal (see Figure 5).

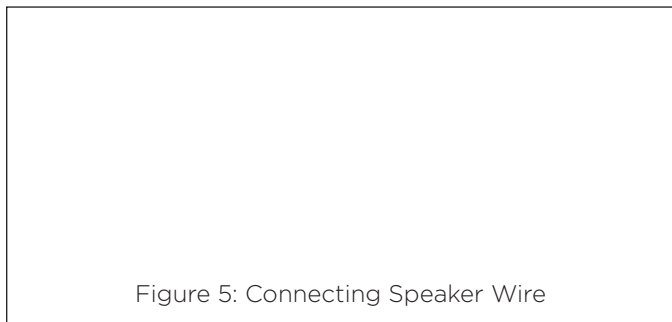


Figure 5: Connecting Speaker Wire

Figure 6: Spacer Stack

2. Secure the Spacer Stack through the threaded holes in the speaker enclosure opening using the provided screws.

IMPORTANT: Connect the module to the enclosure opening to test for functionality BEFORE installing drywall over the enclosure. Once tested, remove the module and reserve for later.

3. Secure the Space Saver to the stacked spacers and shims to cover the speaker opening using the provided screws (see Figure 7).

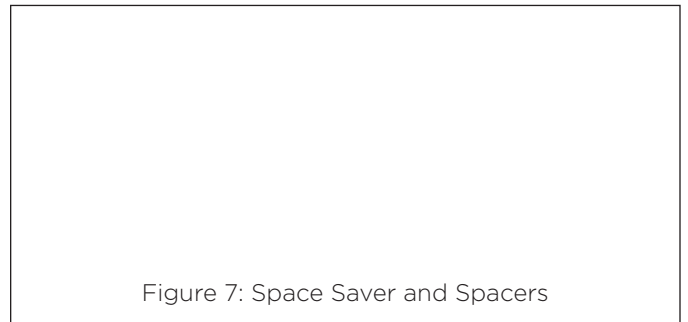


Figure 7: Space Saver and Spacers

4. Install drywall around the Space Saver.
5. Once the drywall panel installation and mudding process is complete and has had time to dry, remove the Space Saver.
6. Install the SA4-66 Speaker Module:

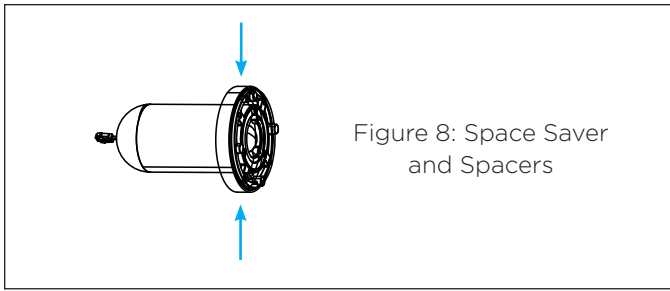


Figure 8: Space Saver and Spacers

- Place the grille aligner around the speaker module and test fit the assembly in the enclosure opening by securing it with two screws (see Figure 8). Test the grille fit. If the grille will not stay on or if there is a gap between the installation surface and the grille, spacers and shims will need to be added or removed until the grille fit is perfect (see Figure 9).

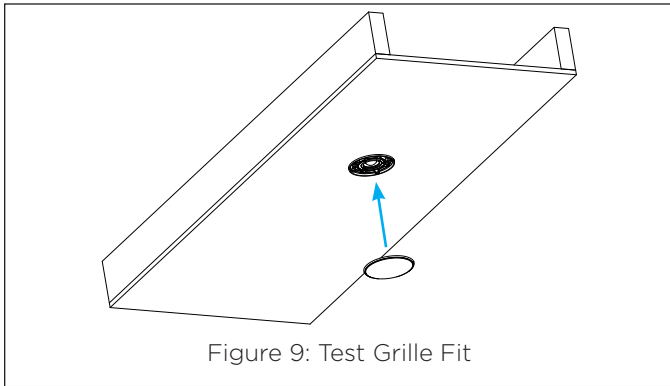


Figure 9: Test Grille Fit

- After the spacers have been adjusted as needed, remove the module and grille aligner from the enclosure. Keep the grille aligner around the speaker module (see Figure 10).

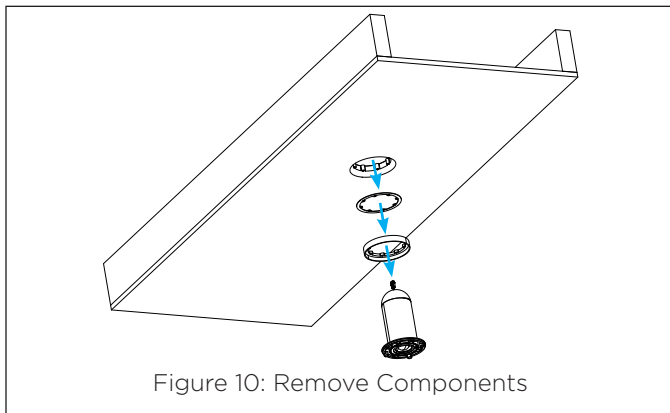


Figure 10: Remove Components

- Connect the 2-pin connector from the enclosure opening to the 2-pin connector on the back of the speaker module. **Make sure that the connector orientation is correct.** Insert the speaker module into the opening and secure the speaker module to the enclosure using four screws (see Figure 11).

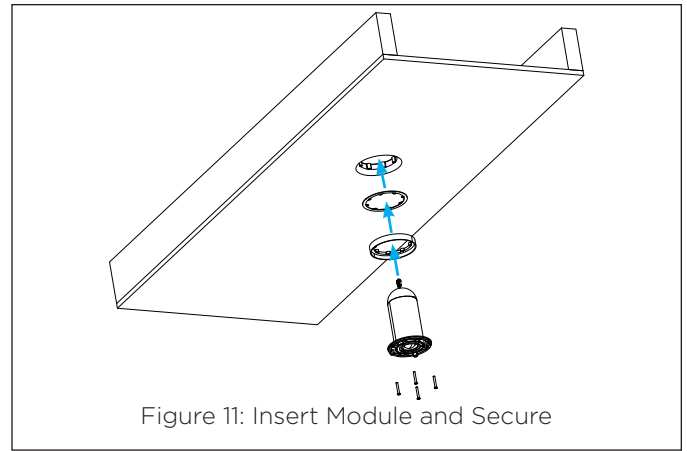


Figure 11: Insert Module and Secure

- Insert the round or square Micro Trim Grille over the grille aligner (see Figure 12).

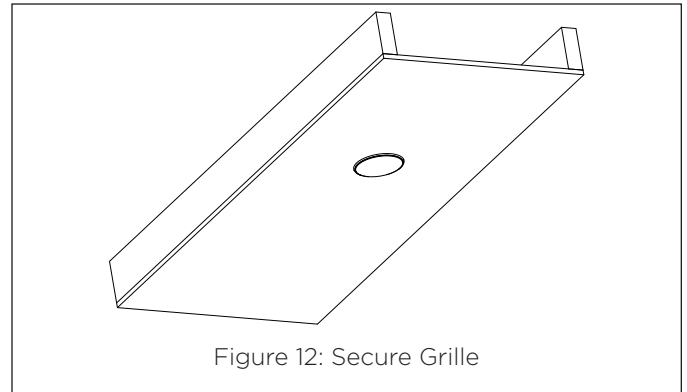


Figure 12: Secure Grille

- Connect and play a source to the amplifier and enjoy!

DRYWALL INSTALLATION WITH FLUSH TRIMLESS GRILLE

REQUIRED PARTS

- SA4-66 Spacer Flush Gypsum Kit | 93719
- SA4-66 Trim Flush Gypsum Kit | 93712
- SA4 Trimless Grille Round | 93725
- SA4 Trimless Grille Square | 93726
- SA4-66 Speaker Module | 93710

SOLID SURFACE INSTALLATION WITH FLUSH TRIMLESS GRILLE

REQUIRED PARTS

- SA4-66 Spacer Flush Solid Surface Kit | 93718
- SA4 Trimless Grille Round 93725
- SA4 Trimless Grille Square 93726
- SA4-66 Speaker Module | 93710
- SA4 Solid Surface Router Template (Optional) | 93727



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TECHNICAL SPECIFICATIONS

SA4-66 Complete Kit Microtrim

SKU	93729
UOM	Each
Wide Bandwidth Driver	2" (50mm) Aluminum cone, rubber surround
Woofer	6.5" (165mm) Aluminum cone, rubber surround
Frequency Response	45Hz-22kHz +/-3dB
Frequency Range	35Hz-25kHz +/-10dB
Impedance	8 ohms nominal; 6 ohms minimum
Power Handling	5 watts minimum to 125 watts maximum
Sensitivity	82dB SPL
Enclosure Only (WxHxD))	22.95" x 10.2" x 6.38" (583mm x 258.5mm x 162mm)
Enclosure With Bracket (WxHxD)	25.9" x 10.2" x 6.38" (658mm x 258.5mm x 162mm)
Minimum Installation Width	10.2" (258.5mm)
Maximum Installation Width	25.5" (649.1mm)
Flush Round Grille (Dia)	4.02" (102mm)
Flush Square Grille (HxW)	4.02" x 4.02" (102mm x 102mm)
Micro Trim Round Grille (Dia)	4.62" (117.4mm)
Micro Trim Square Grille (HxW)	4.62" X 4.62 (117.4mm x 117.4mm)
Enclosure Weight	19.73 lbs (8.95kg)
Module Weight	0.80 lbs (0.35kg)
Complete Kit (SKU 93729) Shipping Weight	34.17lbs (15.5kg)

BOX CONTENTS

- **SA4-66-ENC Speaker Enclosure | 93711**
 - (1) SA4-66 Speaker Enclosure
 - (1) 4" Round Space Saver
 - (1) 4" Square Space Saver
 - (6) Flat Head Philips Screws (30mm)
- **SA4-66-MOD Speaker Module | 93710**
 - (1) SA4-66 Speaker Module
 - (6) Flat Head Philips Screws (30mm)
 - (6) Flat Head Philips Screws (50mm)
 - (6) Flat Head Philips Screws (65mm)
- **SA4-GRILLE-RND-KIT-T Round Micro Trim Grille Kit | 93720**
 - (1) 4" Round Micro Trim Grille
 - (1) 4" Round Micro Trim Grille Aligner
- **SA4-GRILLE-SQR-KIT-T Square Micro Trim Grille Kit | 93721**
 - (1) 4" Square Micro Trim Grille
 - (1) 4" Square Micro Trim Grille Aligner
- **SA4-SP-T-SS-KIT Spacer Kit for Micro Trim or Solid Surface (Round and Square) | 93718**
 - (1) 1/2" USA Drywall Spacer (red)
 - (1) 5/8" USA Drywall Spacer (blue)
 - (1) 5/8" Drywall + 5/8" Drywall Spacer (green)
 - (1) 5/8" Drywall + 1/2" Plywood Spacer (purple)
 - (1) 5/8" Drywall + 3/4" Plywood Spacer (yellow)
 - (5) 1mm Depth Shim (white)
 - (1) 0.125" (3.2mm) Depth Spacer (black)
 - (1) 0.25" (6.4mm) Depth Spacer (black)
 - (1) 0.5" (12.7mm) Depth Spacer (black)
 - (1) 1" (25.4mm) Depth Spacer (black)
 - (1) 1.5" (38.1mm) Depth Spacer (black)
 - (6) Flat Head Philips Screws (30mm)
 - (6) Flat Head Philips Screws (50mm)
 - (6) Flat Head Philips Screws (65mm)
- **SA4-SP-T-SS-KIT Spacer Kit for Micro Trim or Solid Surface (Round and Square) | 93719**
 - (1) 1/2" USA Drywall Spacer (red)
 - (1) 5/8" USA Drywall Spacer (blue)
 - (1) 5/8" Drywall + 5/8" Drywall Spacer (green)
 - (1) 5/8" Drywall + 1/2" Plywood Spacer (purple)
 - (1) 5/8" Drywall + 3/4" Plywood Spacer (yellow)
 - (5) 1mm Depth Shim (white)
 - (1) 0.125" (3.2mm) Depth Spacer (black)
 - (1) 0.25" (6.4mm) Depth Spacer (black)
 - (1) 0.5" (12.7mm) Depth Spacer (black)
 - (1) 1" (25.4mm) Depth Spacer (black)
 - (1) 1.5" (38.1mm) Depth Spacer (black)
 - (6) Flat Head Philips Screws (30mm)
 - (6) Flat Head Philips Screws (50mm)
 - (6) Flat Head Philips Screws (65mm)

REPLACEMENT/INSTALLATION ACCESSORIES (SOLD SEPARATELY)

- **SA4-66-ENC | 93711**
 - (1) SA4-66 Speaker Enclosure
 - (1) 4" Round Space Saver
 - (1) 4" Square Space Saver
 - (6) Flat Head Philips Screws (30mm)
- **SA4-66-MOD | 93710**
 - (1) SA4-66 Speaker Module
 - (6) Flat Head Philips Screws (30mm)
 - (6) Flat Head Philips Screws (50mm)
 - (6) Flat Head Philips Screws (65mm)

- **SA4-TRIMKIT-FLUSH-GYP-RND Flush Drywall Trim Kit (Round) | 93712**
 - (1) 1/2" USA Drywall Spacer (red)
 - (1) 5/8" USA Drywall Spacer (blue)
 - (1) 5/8" Drywall + 5/8" Drywall Spacer (green)
 - (1) 5/8" Drywall + 1/2" Plywood Spacer (purple)
 - (1) 5/8" Drywall + 3/4" Plywood Spacer (yellow)
 - (5) 1mm Depth Shim (white)
 - (1) Mud Ring for Round Flush Trim
 - (1) Round Paint Shield
 - (1) Round Sanding Shield
 - (10) Flat Head Philips Screws (30mm)
 - (10) Flat Head Philips Screws (50mm)
 - (10) Flat Head Philips Screws (65mm)
 - (6) #6 Philips #2 Screws (35mm)
 - (6) #6 Philips #2 Screws (55mm)
 - (6) #6 Philips #2 Screws (70mm)
 - (1) #6 Philips #2 Screws (16mm)
- **SA4-TRIMKIT-FLUSH-GYP-SQR Flush Drywall Trim Kit (Square) | 93722**
 - (1) 1/2" USA Drywall Spacer (red)
 - (1) 5/8" USA Drywall Spacer (blue)
 - (1) 5/8" Drywall + 5/8" Drywall Spacer (green)
 - (1) 5/8" Drywall + 1/2" Plywood Spacer (purple)
 - (1) 5/8" Drywall + 3/4" Plywood Spacer (yellow)
 - (5) 1mm Depth Shim (white)
 - (1) Mud Ring for Square Flush Trim
 - (1) Square Paint Shield
 - (1) Square Sanding Shield
 - (10) Flat Head Philips Screws (30mm)
 - (10) Flat Head Philips Screws (50mm)
 - (10) Flat Head Philips Screws (65mm)
 - (6) #6 Philips #2 Screws (35mm)
 - (6) #6 Philips #2 Screws (55mm)
 - (6) #6 Philips #2 Screws (70mm)
 - (1) #6 Philips #2 Screws (16mm)
- **SA4-GRILLE-RND-KIT-T Micro Trim Grille Kit (Round) | 93720**
 - (1) 4" Round Micro Trim Grille
 - (1) 4" Round Micro Trim Grille Aligner
- **SA4-GRILLE-SQR-KIT-T Micro Trim Grille Kit (Square) | 93721**
 - (1) 4" Square Micro Trim Grille
 - (1) 4" Square Micro Trim Grille Aligner
- **SA4-GRILLE-RND-T | 92723**
 - (1) 4" Micro Trim Round Grille Only
- **SA4-GRILLE-SQR-T | 92724**
 - (1) 4" Micro Trim Square Grille Only
- **SA4-GRILLE-RND-NT | 93725**
 - (1) 4" Trimless Round Grille Only
- **SA4-GRILLE-SQR-NT | 92726**
 - (1) 4" Trimless Square Grille Only

LIMITED FIFTEEN (15) YEAR 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 fifteen (15) years, of the Product, except for the grille, which is warranted for five (5) years. 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.

Your Product Model and Description: Sonance Small Aperture SA4-66 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 contact your authorized Sonance Dealer/Installer or call Sonance Customer Service at (949) 492-7777, must obtain a return merchandise number (RMA), and must deliver the Product to Sonance shipping prepaid during the warranty period, together with the original sales receipt, or invoice or other satisfactory proof of purchase.

In order to initiate a warranty claim:

1. Contact Sonance Technical Support with a description of the fault, the amplifier's serial number and the date of purchase from an authorized Sonance dealer at: technicalsupport@sonance.com
2. Sonance Technical Support will follow-up and may request additional troubleshooting.
3. Once a determination has been made on the fault, Sonance Customer Service will follow-up by email. Please have a scanned copy of your Sonance Visual Experience Speaker sales invoice ready to send upon request to document the speaker's warranty status.
4. Sonance Customer Service will provide an RMA number to be included on the shipping label of the packaging. Please send the speaker back in its original factory carton, which has been specifically designed to protect the speaker during transit.

Contact us at: <https://www.sonance.com/company/contact>

SONANCE

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