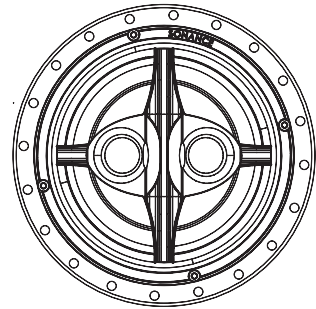
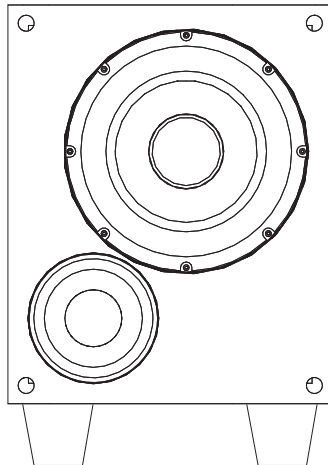
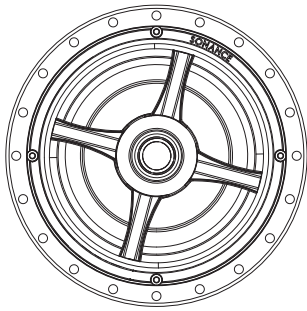


SONANCE

MAG5.1R INSTRUCTION MANUAL

MAG6R | MS8 SUB | MAG6R SUR



INSTRUCTION MANUAL

MAG5.1R SYSTEM

IMPORTANT SAFETY INFORMATION

You should always follow these basic safety precautions when using your Sonance MAG5.1R, to reduce the risk of fire, electric shock, and injury to persons:

1. Read and retain instructions: Read all the safety and operating instructions before operating the amplifier, and retain them for future reference.

2. Heed warnings: Adhere to all warnings and precautions listed on the amplifier and in the operating instructions.

3. Follow instructions: Follow all operating instructions.

4. Water: Never use the amplifier next to water.

5. Carts and stands: The amplifier should be used only with a cart or stand that is recommended by the manufacturer. An amplifier and cart combination should be moved with care.



6. CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT USE THE POLARIZED PLUG WITH AN EXTENSION CORD, RECEPTACLE, OR OTHER OUTLETS UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

7. Ventilation: The Subwoofer should be situated so that its location or position does not interfere with its proper ventilation. For example, the subwoofer should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or be placed in a built-in situation, such as a book case or a cabinet, that may impede the flow of air over the subwoofer.

8. Heat: Situate the amplifier away from heat sources such as radiators, stoves, or other appliances (including external amplifiers) that produce heat.

9. Grounding or polarization: Grounding or polarization are precautions that should be taken so that these attributes are not defeated.

10. Power-cord protection: Route power supply cords so that they will not be walked on or pinched by items placed on or against them.

11. Cleaning: To clean the amplifier, use "canned air" or wipe the amplifier with a soft cloth. Do not use solvents, as they may damage the amplifier.

12. Non-use periods: Unplug the amplifier's power cord from the outlet when the amplifier will be left unused for a long period of time.

13. Object entry: Care should be taken so that objects do not fall through the opening of the enclosure.

14. Moisture: Do not expose the amplifier to dripping or splashing. Do not place objects filled with liquids, such as vases, on the amplifier.

15. Damage requiring service: Have the amplifier serviced by a qualified service personnel when:

- The power supply cord or the plug has been damaged.
- Objects have fallen, or liquid has been spilled into the amplifier.

- The amplifier has been exposed to rain.

- The amplifier does not appear to operate normally or exhibits a marked change in performance.

- The amplifier has been dropped, or the enclosure damaged.

16. Servicing: The user should not attempt to service the amplifier beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

17. Lifting: Improper lifting of the 28 lbs. MS8 SUB can cause personal injury.

18. Power requirement: Do not connect the Subwoofer to the accessory outlet of any other component. A minimum 15 amp (20 amp preferred) grounded wall outlet is required.

WARNING: THE POWER (MAINS) PLUG SERVES AS THE AMPLIFIER'S DISCONNECT DEVICE. THE DISCONNECT DEVICE SHALL REMAIN READILY OPERABLE DURING OPERATION. TO ENSURE THAT THE DISCONNECT DEVICE (POWER PLUG) IS EASILY ACCESSIBLE, THE USER SHALL NOT PLACE THE AMPLIFIER IN A CONFINED AREA DURING OPERATION.

19. Storms: To prevent damage to components, unplug all electronic equipment during thunderstorms.



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE REFER SERVICING TO AUTHORIZED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. THE APPLIANCE SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING. NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPLIANCE.

INTRODUCTION

Thank you for purchasing MAG5.1R. When properly installed your new speakers will give you years of entertainment pleasure.

BOX CONTENTS

MAG5.1R box contains:

- (3) MAG6R speakers
- (2) MAG6R SUR speakers
- (1) MS8 SUB subwoofer

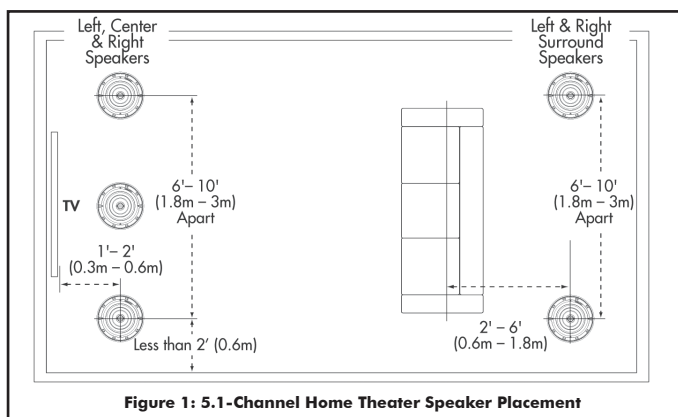
HOME THEATER SPEAKER PLACEMENT

MAG6R - Left, Center & Right Speakers (see Figure 1)

- Place the left, center and right speakers 1 – 2 feet (0.3m – 0.6m) in front of the video screen, 6 – 10 feet (1.8m – 3m) apart, with the center channel speaker as close to midway between the left and right speakers as possible.
- The main listening position should be 4 – 10 feet (1.2m – 2m) away from the speakers.

MAG6R SUR - Surround Speakers (see Figure 1)

- Locate the left and right surround speakers 2 – 6 feet (0.6m – 1.8m) behind the listening position. The speakers should be 6 – 10 feet (1.8m – 3m) apart.



SUBWOOFER PLACEMENT

As with any speaker, your Sonance MS8 SUB's performance will be influenced by its placement in your listening room. However, since our ears do not hear directional sound at deep bass frequencies, your subwoofer's placement is not as critical to its overall performance as is the placement of your system's other speakers. Therefore, your subwoofer will deliver superior performance from a wide variety of room locations.

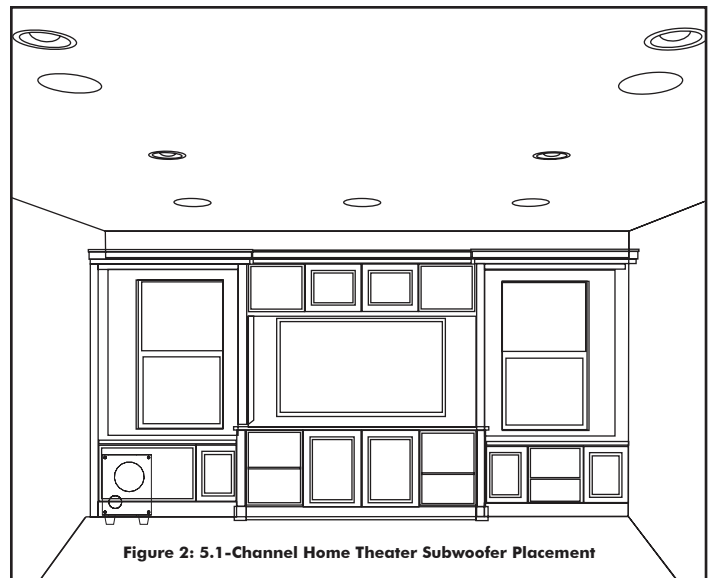
The following guidelines — plus some experimentation — will help you get the best performance possible from your subwoofer in your home theater space. Placing the subwoofer as close as possible to the same plane as your main (left and right) speakers will help your subwoofer's sound properly blend with the sound from your main speakers, creating a solid, integrated soundstage that enhances the impact of music and films.

We suggest starting with the subwoofer in line with your left and right speakers, somewhere between either speaker and the side wall (see Figure 2). Your subwoofer's location relative to walls will influence the amount of bass it produces — placing the subwoofer next to a wall will increase bass output; placing it in a corner will maximize its bass output. However, corner placement can increase standing waves in the room (peaks and dips in bass response related to the room's dimensions) that can make the subwoofer's bass performance sound uneven at different listening locations. Experiment with different subwoofer locations until you find one that produces

strong bass that sounds clear (without boominess) at the seating locations while maintaining the sound's impact.

Your local authorized Sonance dealer is an expert in audio/video system planning and installation. We strongly recommend that you work with your dealer to ensure that you get the best performance possible from your subwoofer.

NOTE: THESE SUBWOOFERS CAN PRODUCE ENOUGH BASS ENERGY TO CAUSE OBJECTS IN THE ROOM TO RATTLE OR BUZZ DURING PASSAGES WITH VERY STRONG BASS. IF THIS HAPPENS, TRY RELOCATING THE ITEMS. IF THAT FAILS TO STOP THE RATTLING YOU MAY HAVE TO REMOVE THE ITEMS.



BEFORE INSTALLATION

Determine the location for the speaker (see Speaker Placement in column 1).

Perform an obstruction survey using a stud finder to be certain that there are no studs, conduit, pipes, heating, ducts, pocket doors or air returns in the ceiling cavity that will interfere with the speaker.

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. Cut the mounting hole using a keyhole or drywall saw, and run the speaker wires from the mounting hole to the amplifier location.

NOTE: CONSULT LOCAL BUILDING CODES BEFORE RUNNING SPEAKER WIRES THROUGH CEILINGS.

INSTALLATION

Sonance Speakers feature integral Roto-Lock® mounting system for quick mounting directly into existing ceilings.

1. Strip 1/4" – 1/2" (6mm – 12mm) of insulation from each speaker lead. Twist the strands or tin the exposed wire with solder to ensure that there are no stray strands.

NOTE: STRAY STRANDS THAT TOUCH EACH OTHER CAN CAUSE A SHORT-CIRCUIT THAT CAN DAMAGE THE AMPLIFIER.

2. The speaker's terminals are spring-loaded. Push the top of each terminal down to open the connector and insert the exposed wires into the holes in the spring terminals. The speaker's positive spring terminal is labeled with a red dot; the negative spring terminal is labeled with a black dot. Doublecheck that you connected amplifier "+" to speaker "+" and amplifier "-" to speaker "-".

3. Make sure all the Roto-Lock toggle feet are retracted so that they are tucked within the mounting hole's border. Insert the speaker into the hole in the ceiling (Figure 3). The Roto-Lock system can accommodate a ceiling material thickness of 1-1/2" (38mm).

4. Tighten the screws on the front of the speaker baffle. The Roto-Lock toggle feet will automatically rotate into position and begin clamping the speaker (Figure 4). When you notice resistance on the screws the speaker has been clamped successfully.

5. **IMPORTANT**: Always use low torque settings; NEVER over-tighten.

NOTE: ADJUST THE TENSION OF THE ROTO-LOCK CLAMPS SO THAT THE SPEAKER FRAME IS FLAT. THIS WILL HELP ENSURE THAT THE GRILLE CONTACTS THE CEILING ALL THE WAY AROUND THE SPEAKER FOR A PROPER FIT.

6. The micro-trim grille is held in place by several small, powerful magnets on the speaker frame. Place the grille against the speaker and the magnets will hold it firmly in place. When properly installed, the grille trim should make contact with the wall all the way around the speaker.

SPEAKER ADJUSTMENTS

MAG6R - Left, Center and Right Channels

The woofer and tweeter of the MAG6R should be pivoted directly towards the listening area. To pivot the drivers apply light pressure to the ring around the outside edge of the woofer and tweeter, as shown in Figure 5. Take care not to touch or apply pressure to the cone or dome itself.

MAG6R SUR - Surround Channels

The woofer of the MAG6R SUR should be pivoted towards a wall or window, away from the listeners to create a more spacious surround presentation. To pivot the woofer apply light pressure to the ring around the outside edge of the woofer, as shown in Figure 5. Take care not to touch or apply pressure to the cone itself.

MS8 SUB - CONNECTION

Your MS8 SUB will need both AC power and a standard subwoofer cable with RCA connectors on both ends.

Follow the connection example in figure 6 below for connecting the MS8 SUB directly to your A/V home theater receiver. You're A/V home theater receiver should have a LFE or SUB OUT connector, the cable from your MS8 SUB should be connected here.

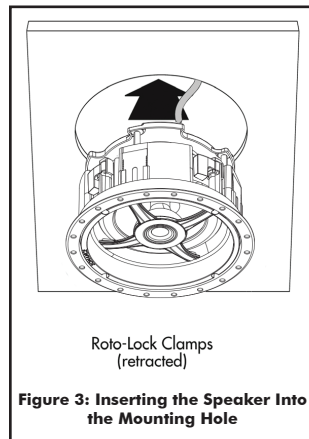


Figure 3: Inserting the Speaker Into the Mounting Hole

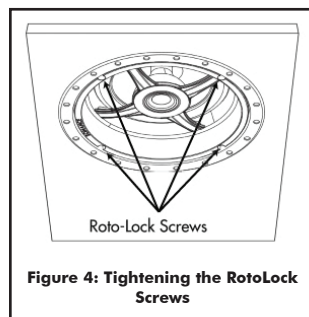


Figure 4: Tightening the RotoLock Screws

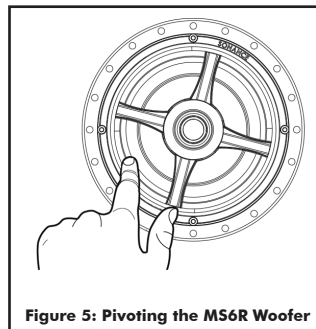


Figure 5: Pivoting the MS6R Woofer

MS8 SUB - CONNECTION

Your MS8 SUB will need both AC power and a standard subwoofer cable with RCA connectors on both ends.

Follow the connection example in figure 6 below for connecting the MS8 SUB directly to your A/V home theater receiver. You're A/V home theater receiver should have a LFE or SUB OUT connector, the cable from your MS8 SUB should be connected here.

IMPORTANT: DO NOT CONNECT THE SUBWOOFER'S LINE INPUTS AND SPEAKER INPUTS AT THE SAME TIME UNDER ANY CONDITIONS.

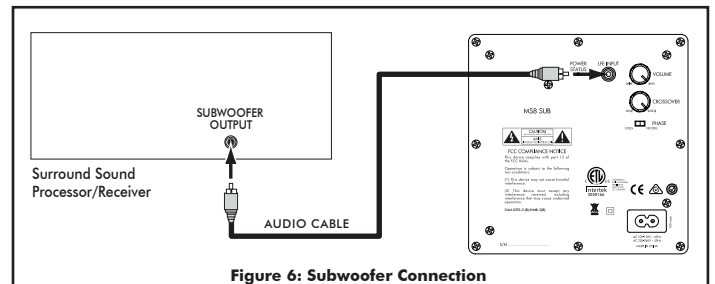


Figure 6: Subwoofer Connection

MS8 SUB - CROSSOVER CONTROL

The crossover control on the rear panel of the MS8 SUB (figure 7) should normally be set to the 250Hz or FULL CLOCKWISE setting.

A/V home theater receivers have built in crossover filters for subwoofer and satellite speakers. The settings for the crossovers can be adjusted in the on screen menu for your A/V home theater receiver. By setting the MS8 SUB in this way the correct crossover filter will be applied in your A/V home theater receiver and not in the subwoofer.

If you want to experiment with the crossover control on the rear panel of the MS8 SUB the variable internal crossover operates between 50Hz and 250Hz, with a crossover slope of 12dB/octave.

MS8 SUB - PHASE SWITCH

The phase switch on the rear panel of the MS8 SUB (figure 7) should generally be left in the 0 DEG settings.

When the subwoofer's PHASE switch is in the 0 position, a positive input voltage will cause the woofer cone to move out (towards the room). When the PHASE switch is in the 180 position, a positive input voltage will cause the woofer cone to move in (away from the room).

There is no absolute correct setting for the PHASE switch. Depending on the location of the subwoofer relative to your main speakers and seating location, one of the settings will produce a better match with the main speakers, improving bass impact, and in some cases, improving overall bass level as well.

To determine the correct setting of the PHASE switch, listen to a movie or music with significant impactful bass content with the switch in each position, it may be helpful to sit in the normal listening position while someone else changes the PHASE switch between 0 and 180. Leave the switch in the position that produces audibly louder bass with more impact.

MS8 SUB - VOLUME CONTROL

The volume control on the rear panel of the MS8 SUB (figure 7) should normally be set to the MAX or FULL CLOCKWISE setting.

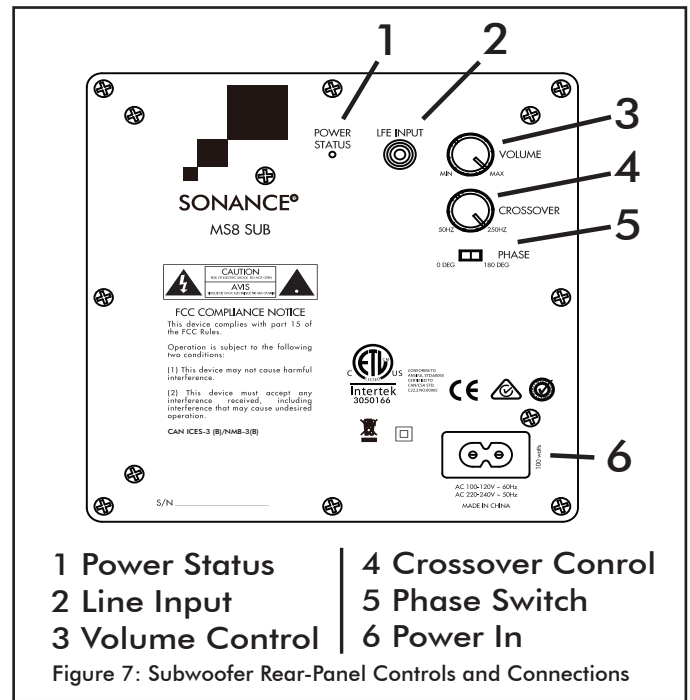
A/V home theater receivers have built in settings for volume level for subwoofer and satellite speakers. The settings for the volume volume can be adjusted in the on screen menu for your A/V home theater receiver. By setting the MS8 SUB in this way the correct output level will be applied in your A/V home theater receiver and not in the subwoofer.

Further adjustment of the subwoofers level can be made using the built in Volume Control. When setting the subwoofer's Volume control by ear, try to find a volume setting where the bass sounds balanced on both music and films. Listen to several different music recordings and film soundtracks that contain strong bass passages and try to find a setting for the Volume Control that doesn't over-emphasize the bass or make it sound weak.

MS8 SUB - AUTO-ON

The subwoofer is in the STANDBY mode whenever its power cord is plugged-into a live AC outlet. When the subwoofer detects an audio signal it will automatically turn ON (the rear-panel On/Standby Indicator will illuminate Blue).

The subwoofer will continue to remain ON for approximately 15 minutes after no signal is detected on its input, then it will return to STANDBY (the rear-panel On/Standby Indicator will illuminate Red).



MAG5.1R SPECIFICATIONS

MAG6R SPEAKERS

Tweeter:	1" (25mm) silk dome, Ferrofluid-cooled, pivoting, in acoustic back chamber
Woofers:	6 1/2" (165mm) glass fiber cone, rubber surround, pivoting
Frequency Response:	45Hz - 20kHz ± 3 dB
Impedance:	8 ohms nominal; 6 ohms minimum
Power Handling:	5 watts minimum; 125 watts maximum
Sensitivity:	89dB SPL (2.83V/1 meter)
Grille:	Perforated steel
Dimensions (Dia.xD):	9 3/4" x 4 3/4" (248mm x 121mm)
Cut-Out Diameter:	8 1/4" (210mm)
Weight:	3.7 lbs (1.7kg) each

MAG6 SUR SPEAKERS

Tweeter:	Two 1" (25mm) silk dome, Ferrofluid-cooled, in acoustic back chamber
Woofers:	6 1/2" (165mm) glass fiber cone, rubber surround, pivoting
Frequency Response:	45Hz - 20kHz ± 3 dB
Impedance:	8 ohms nominal; 6 ohms minimum
Power Handling:	5 watts minimum; 125 watts maximum
Sensitivity:	89dB SPL (2.83V/1 meter)
Grille:	Perforated steel
Dimensions (Dia.xD):	9 3/4" x 4 3/4" (248mm x 121mm)
Cut-Out Diameter:	8 1/4" (210mm)
Weight:	3.6 lbs (1.6kg) each

MS8 SUB

Woofers:	8" (203mm) Polypropylene cone with a rubber surround
Frequency Response:	30Hz - 250 Hz ± 3 dB
Amplifier:	100 Watts
Crossover Frequency:	50Hz - 250Hz (adjustable), 12dB/octave
Inputs:	Line-level LFE input
Grille Material:	Black cloth
Cabinet Finish:	Textured vinyl
Adjustments:	Level, Crossover and Phase
Dimensions (LxWxH):	13 3/8" x 11 3/16" x 15 1/8"
Weight:	28 lbs (12.7 kg)



LIMITED ONE (1) YEAR 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 period stated below. Sonance will at its option and expense during the warranty period, 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 & Description: Sonance MAG5.1R SYSTEM

Warranty Period for this Product: One (1) year from the date on the original sales receipt or invoice or other satisfactory proof of purchase.

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 within the warranty period, must obtain a return merchandise authorization 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.

SONANCE

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Due to continuous product improvement, all features and specifications are subject to change without notice.
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