



The Leader in Architectural Audio™

SONANCE SILHOUETTE™

Signature Series designed by Todd Ryan

INSTALLATION INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

When using your Sonance Silhouette™ speakers, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

1. Read and understand all instructions.
2. Retain the safety and operating instructions for future reference.
3. Follow all warnings and instructions in this manual and marked on the product.
4. Any service or repair required must be performed by qualified, factory authorized personnel.
5. Do not use this product in a high humidity environment or near water, for example a wet basement, wet bar, or swimming pool.
6. Never touch the drivers or push objects of any kind into this product through the grilles.

GETTING THE MOST FROM YOUR SONANCE SILHOUETTE SPEAKERS

When properly installed and operated with appropriate components, your Sonance Silhouette speakers will provide many years of entertainment pleasure. Sonance Silhouette speakers are capable of delivering pristine sound quality, unparalleled clarity, and precise imaging. Your system also can sustain reproduction of substantial continuous sound levels, with a large dynamic performance margin. To realize the full potential of your new speakers, please read all instructions before starting the installation process.

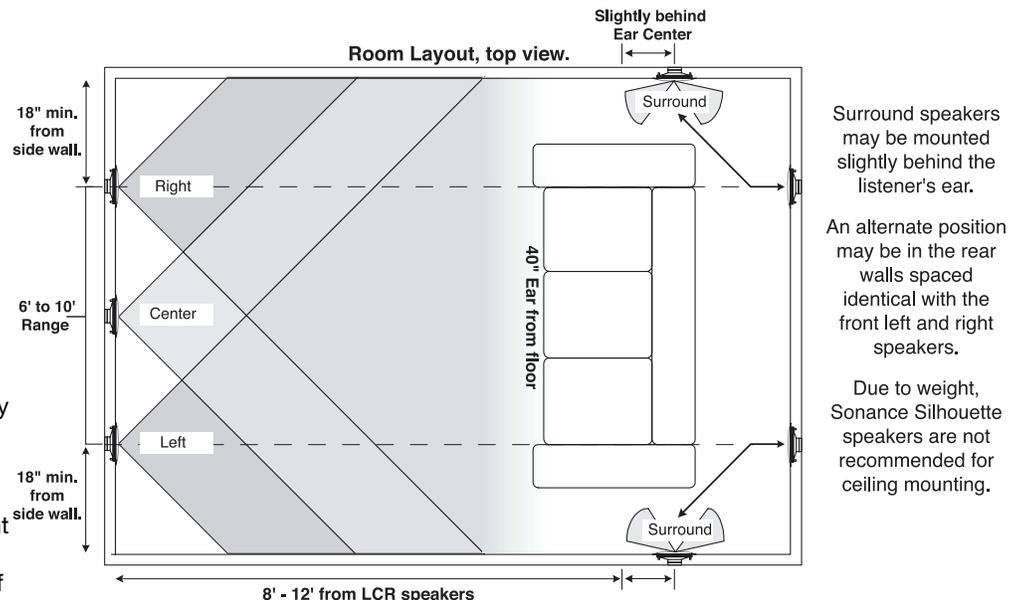
Pre-installation is critical to achieving the maximum performance of your Sonance Silhouette speakers. Factors such as the location and height of seating and location of video monitor dictate the proper placement and direction of speakers. As with any fine speaker, good room characteristics are necessary to ensure the maximum sonic performance of which the Sonance Silhouette is capable.

Remember that the wall is part of the sound reproduction system. To the degree possible, the listening room should be symmetrical both in overall shape, and with respect to furnishings (especially wall treatments and hanging art). The best listening rooms exhibit low intrusion of ambient noise. In any event, the Sonance Silhouette speakers should not be mounted with less than two feet of unobstructed wall on either side (i.e., not in columns).

Optimum horizontal placement of left and right speakers is six to ten feet apart and at least 18" from side walls (see below). All

CARE AND MAINTENANCE

1. Retain the safety and operating instructions for future reference.
2. Any service or repair required must be performed by qualified, factory authorized personnel.
3. Do not use liquid or aerosol cleaners on the speakers.
4. To clean your speakers, wipe the grilles with a soft cloth dampened with water. You may remove the grilles to wash and dry them. The baffle and drivers may be dusted by gentle use of "canned air" commonly used to clean cameras and computer equipment.
5. Do not expose your Sonance Silhouette speakers to direct sunlight or high heat. Extended periods of exposure may cause deterioration of adhesives and driver materials, compromising the useful life of the speakers.
6. Sine wave test tones can damage your Sonance Silhouette speakers and should only be used at low volume levels for short periods.
7. Do not expose your Sonance Silhouette speakers to construction dust, dirt, or airborne paint particles. If the area in which your speakers are installed is subject to potentially damaging airborne particles, you may remove the grilles, temporarily cover them with paper or plastic food wrap, then replace them over the speakers. Be sure to remove this protective cover after the dirty activity is complete and the room is thoroughly cleaned.



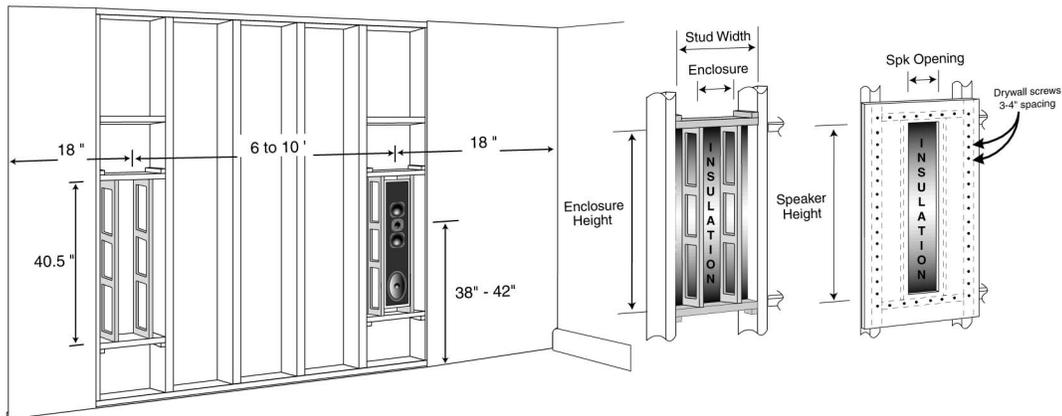
CREATE OPENINGS (NEW CONSTRUCTION)

- The Silhouette will fit in a 2" x 4" stud bay.
- The optimum installation space is a 2" x 6" stud bay. This allows for the use of a back box with notable sonic improvement. Several physical and acoustic criteria are better served with this space allocation. Back box plans are provided for all models

WITH A BACK BOX

Back boxes will provide better definition to bass, higher power handling, and less intrusion of sound into other rooms.

- Attempt to avoid placing a speaker in a stud bay shared with the home's electrical system.
- Move any fire stops that will interfere with the installation location (use the cardboard cut-out template to pre-visualize installed speaker). Be sure to follow local building codes.



To use a back box with the Sonance Silhouette speakers you will need a wall with at least 5-1/2" of depth.

1. Construct the back boxes out of 3/4" MDF according to the drawings, apply glue to all joints and screw or nail the box together. Loosely fill the back box with fiberglass insulation.

NOTE: On the construction drawings you can find the back box volumes necessary for each of the Sonance Silhouette models. If your installation requires, modify the dimensions of the box but maintain the proper internal volume.

2. Once the boxes are constructed, attach the back box to the studs using 3" screws. Drill a hole through the back box and run the speaker wire through it. After wire is installed, seal the hole with silicone chalking to prevent air leaks.
3. To further improve sound quality, install fiberglass in each stud bay adjacent to the speaker's locations.
4. Use construction adhesive and drywall screws to attach the drywall around the rim of the enclosure. Space screws at 4-6" intervals.
5. After drywall has been installed, mark and cut the drywall along the template outline and discard the center.
6. Tape and fill seams to finish the drywall around the back box location.

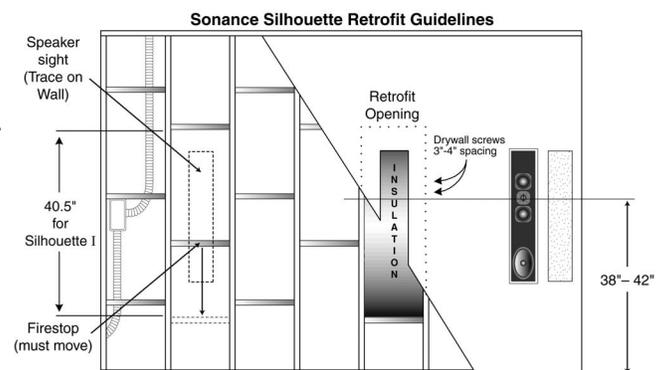
WITHOUT A BACK BOX

1. We strongly recommend using construction adhesive to secure the drywall to the studs around the bay that the speaker will be mounted in. Use extra drywall screws to secure the drywall to the studs, space the screws approximately 4"-6" apart.
2. After drywall is installed and ready for speakers follow retrofit instructions below.

CREATE OPENINGS (RETROFIT)

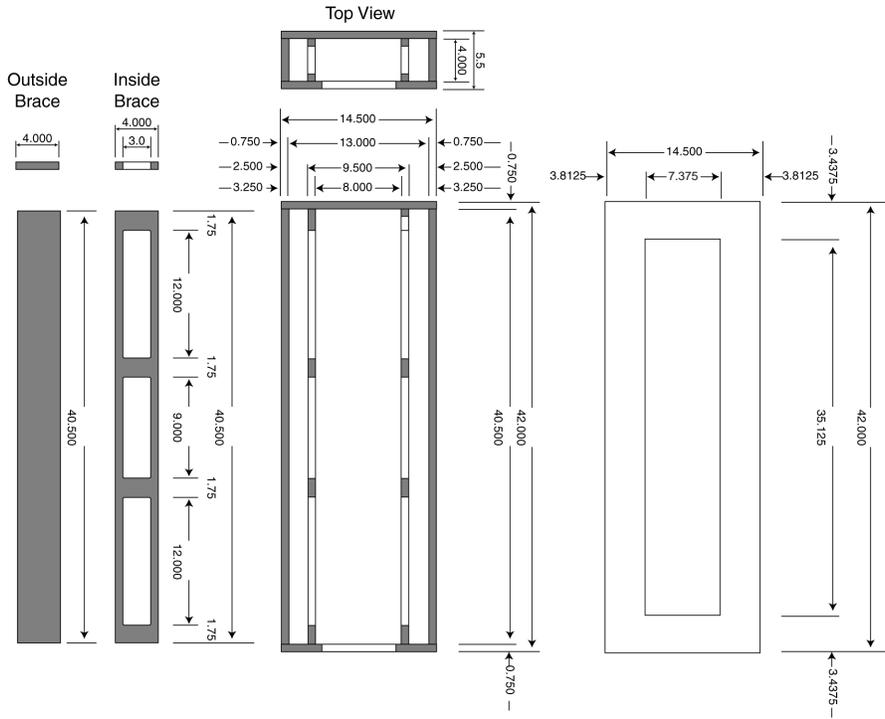
Survey proposed sites and look for installation obstacles, e.g., plumbing, wiring, and other fixtures. Access the attic or crawl space to check routing of air ducts and available mounting depth. The Roto-Lock requires a 1" area around the speaker to function.

1. At each selected site, use a stud locator to identify studs. Center each speaker between two studs. Check on both sides of the wall and adjacent room for electrical outlets or switches, which indicate wiring in the selected stud bay. Attempt to avoid placing a speaker in a stud bay shared with the home's electrical system.
2. Measure in from wall and mark planned edge of each wall opening.
3. Position and temporarily attach the cardboard cut-out template from packaging with painter's tape or a stapler and a level. Trace a cutout hole on the wall for each speaker. Remove template.
4. At each proposed opening, drill several small holes along the length of the center of chosen area and insert a bent coat hanger to confirm that the cavity is clear at least 6" in all directions. If you feel any obstruction, immediately stop drilling, patch hole with drywall compound, and search for a new installation location. Possible obstructions include braces, plumbing supply, drain, vent pipes, electrical conduit, junction boxes, and light fixtures.

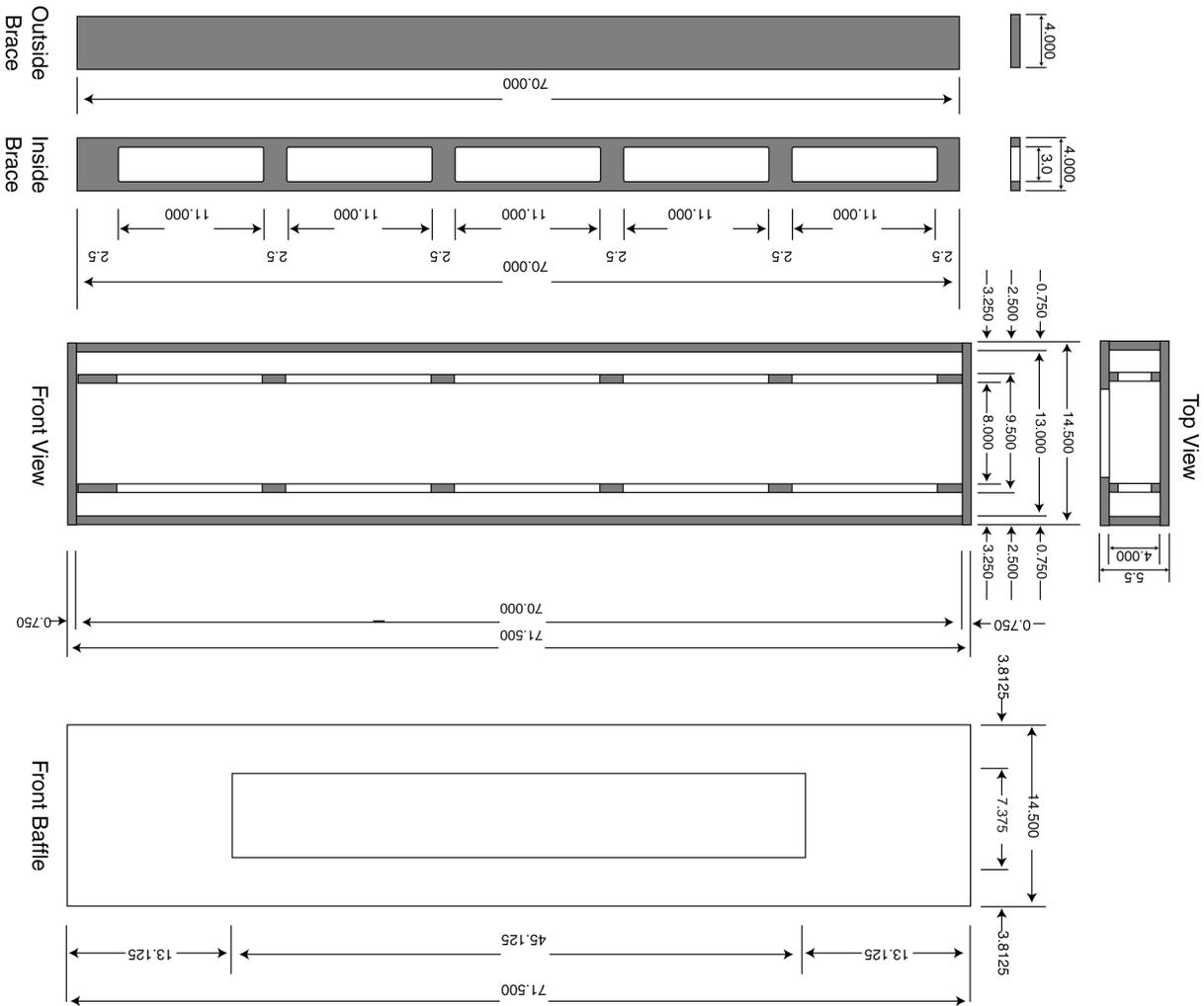


Retrofit construction for Sonance Silhouette speakers.

Sonance Silhouette I (1.218 cubic feet)



Sonance Silhouette II (2.106 cubic feet)



5. Using a drywall saw, cut a hole large enough to allow inspection.
6. Look inside opening and move any fire stops that will interfere with installation. Be sure to replace any fire stops you remove.
7. Cut the drywall and remove.

SPEAKER INSTALLATION/GRILLE/FRAME PAINTING

Speaker grilles may be painted to color match surroundings.

1. First, remove the grille by carefully prying it away from the baffle starting at the short end of the speaker. Prepare both the grille and speaker frame using a light 600 grade sanding material. The idea is to create a slightly rough surface for the primer to adhere to.
2. All sanded surfaces should be cleaned with a soft cloth. Apply a primer such as XIM grade spray primer to all metal surfaces to be painted. Dry according to the directions provided by the primer manufacturer. After the primer is dry, a light final sanding should be done to increase the adherence of the paint to the primer.
3. Prior to painting, all surfaces should be wiped clean with a dry cloth.
4. Apply the paint with a sprayer if possible creating an even finish. Additional coats may be desired to achieve the needed results.

WIRE SIZE/TYPE

Larger wire than normal is recommended to reduce resistance and to eliminate power loss between your audio equipment and your Silhouette speakers.

- 14 gauge for less than 30 feet.
- 12 gauge for between 30 and 75 feet.
- 10 gauge for greater than 75 feet.

SINGLE WIRE CONNECTIONS

STEREO RECEIVER

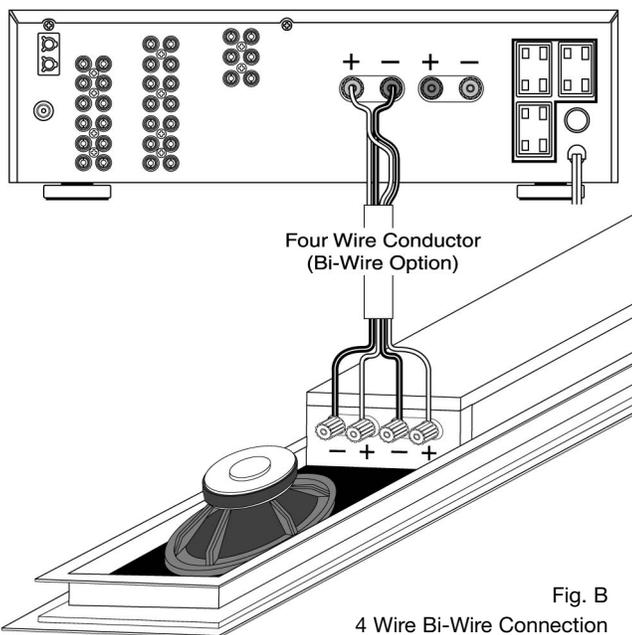


Fig. B

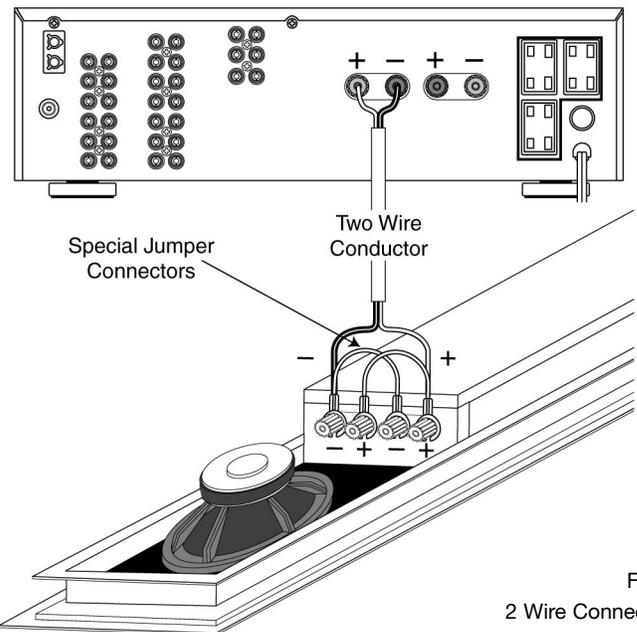
4 Wire Bi-Wire Connection

3. Attach the two wires you have designated for the mid-high range to the other set, again being careful to observe proper speaker to amplifier connection.

FINAL ASSEMBLY

1. Make sure wire terminations are correct
2. Rotate all Roto-Lock mounting fasteners around the speaker's edge to their OPEN position.
3. Carefully lift the speaker into the wall opening.
4. Use a screwdriver to turn the Roto-Lock mounting fasteners visible in the channel of the extruded aluminum frame into the CLOSED position. Sonance's Roto-Lock mounting system firmly attaches the Sonance Silhouette speaker to the wall by means of a foot that rotates into place, securely clamping the baffle to the mounting surface.
5. Insert the grilles in the groove in the extruded frame starting at one of the short ends and working the grille into the frame.

STEREO RECEIVER



If

Fig. A

2 Wire Connection

you have run a single, two conductor wire to each speaker location, use the positive (+) and negative (-) terminals closest to the outside edges of the Sonance Silhouette speaker (see figure "A" to right).

BI-WIRING CONNECTIONS

If you have run a single, four conductor wire or special bi-wire cable to take advantage of the bi-wire option (see figure "B" to left), follow these instructions:

1. Remove the two special jumper wires that cross-connect the four input terminals on the rear of the Sonance Silhouette speaker.
2. Attach the two wires you have designated for the woofer and connect them to the terminals marked woofer. Carefully observe polarity.

SILHOUETTE I



Design: In-Wall Infinite Baffle

Tweeter: 1" (25mm) Inverted titanium dome.

Midrange: 2 - 4" (102mm) Magnesium cones.

Woofer: 1 - 9" Elliptical Aluminum woofer (152mm x 229mm) with a rubber surround and extended pole piece.

Crossover Design: Woofer, midrange and tweeter crossovers are physically independent with connections for bi-wiring or bi-amping provided

Slope: 18dB per octave

Crossover Frequency: 135 Hz and 2150 Hz

Frequency Response: 45 Hz to 20,000 Hz \pm 3dB

Impedance: 4 Ω nominal, 3.5 Ω minimum

Power Handling: 10 to 175 watts

Efficiency: 90dB 1W/1m

Enclosure Volume: 1.218 ft³

Grille Type: White Metal

Speaker Dimensions (WxHxD): 8.25" x 36" x 3.875" (209mm x 914mm x 98mm)

Grille Dimensions (WxH): 6.80" x 34.65" (173mm x 880mm)

Retrofit Cutout (WxH): 7.375" x 35.125" (187mm x 892mm)

Shipping Weight: 30 lbs. (13.6kg)

SILHOUETTE II



Design: In-Wall Infinite Baffle

Tweeter: 1" (25mm) Inverted titanium dome.

Midrange: 2 - 4" (102mm) Magnesium cones.

Woofer: 2 - 9" Elliptical Aluminum woofer (152mm x 229mm) with a rubber surround and extended pole piece.

Crossover Design: Woofer, midrange and tweeter crossovers are physically independent with connections for bi-wiring or bi-amping provided

Slope: 18dB per octave

Crossover Frequency: 135 Hz and 2150 Hz

Frequency Response: 40 Hz to 20,000 Hz \pm 3dB

Impedance: 4 Ω nominal, 3.5 Ω minimum

Power Handling: 10 to 200 watts

Efficiency: 91dB 1W/1m

Enclosure Volume: 2.106 ft³

Grille Type: White Metal

Speaker Dimensions (WxHxD): 8.25" x 46" x 3.875" (209mm x 1168mm x 98mm)

Grille Dimensions (WxH): 6.80" x 44.65" (173mm x 1134mm)

Retrofit Cutout (WxH): 7.375" x 45.125" (187mm x 1146mm)

Shipping Weight: 40 lbs. (18.8kg)

SERVICE

The Technical Assistance Department at Sonance is available to answer any questions concerning the operation and installation of your Sonance Silhouette speakers. Please contact us between the hours of 7 AM and 5 PM Pacific Time, Monday through Friday, except holidays:

Telephone toll free, Continental USA: (800) 582-7777

Telephone outside Continental USA: (949) 492-7777

or contact us online at www.sonance.com

SONANCE TECHNICAL ASSISTANCE DEPARTMENT

Address inquiries to: 212 Avenida Fabricante, San Clemente, CA 92672-7531

YOU MUST HAVE PRIOR AUTHORIZATION TO RETURN YOUR UNIT!

In the event that your unit should need service or repair, return the unit to your Authorized Sonance dealer. If you wish to return it to the factory yourself, you must contact us to obtain a return authorization (RA) number prior to returning your unit to us. Be prepared to state the model number, date of purchase and the dealer's name and address when you call.

The unit must be returned to the factory in its original shipping carton and packing to make sure it arrives in good condition. If the original carton has been lost or damaged, a new one can be obtained from Sonance for a small fee.

When you ship your unit use United Parcel Service, Federal Express, etc. Never ship your unit via US Postal Service.

FREIGHT COLLECT SHIPMENTS WILL BE REFUSED!

WARRANTY COVERAGE (U.S. ONLY)

Sonance offers a Lifetime limited warranty on this unit. You must observe the following conditions in order to receive this protection:

1. Retain your bill of sale or legible facsimile (photo copy). In the event that your unit should ever require service, the bill of sale shall act as your proof of ownership and give the effective date of your warranty.
2. Read your warranty thoroughly. Sonance offers you certain rights outlined in your warranty and requires specific conditions to be met to retain those rights. You may also have other rights which vary from state to state.

LIMITED LIFETIME WARRANTY

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 Sonance Authorized Dealer from whom they were purchased, or to the Sonance factory at the address listed on this installation 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 Sonance Authorized Dealer, it is determined that the unit was defective in materials or workmanship at any time during this warranty period, Sonance or the Sonance Authorized 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 Sonance Inc. Authorized 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.

Declaration of Conformity



We, Sonance
212 Avenida Fabricante
San Clemente, CA 92672-7531
U.S.A.

declare in own responsibility, that the product described in this owner's manual is in compliance with technical standards:

EN 50082-1:1992
EN 55013:1993
EN 50020:1994

Chip Brown
Sonance
San Clemente, CA U.S.A.

Signature Series designed by his Excellency Todd Ryan on staff at Sonance.