



PN.33-1541 9/98

## INTRODUCTION

Thank you for purchasing this Sonance® component. Sonance also offers the largest selection of high fidelity in-wall/in-ceiling speakers in the world. Consult Sonance literature or your Authorized Sonance Dealer for more information on the wide variety of speakers, amplifiers, switchers, controls, cable, and other custom installation products available from Sonance.

*Please read these instructions carefully before connecting this device to your system. If connections are made incorrectly you may damage your amplifier/receiver.*

**IMPORTANT NOTE: TURN YOUR AMPLIFIER/RECEIVER OFF BEFORE ATTEMPTING THE FOLLOWING HOOK-UP PROCEDURES.**

## VC30RIM APPLICATIONS

The VC30RIM is a rotary volume control. The volume can be controlled by turning the knob clockwise to increase volume and counterclockwise to decrease volume. This 9 position rotary knob incorporates light touch and silent switching capabilities and can safely handle 30 watts per channel of power.

The VC30RIM is an "Impedance Matching" volume control. Use it in audio systems where: 1) there are two or more pair of loudspeakers on a single amplifier, 2) the amplifier being used is not designed to drive the low impedance loads presented by multiple speakers, and 3) switch boxes with load resistors or other external protection devices are not being used. With the VC30RIM you can safely connect twice the maximum number of recommended speaker/volume control combinations to an amplifier than with a normal control. Determine the maximum impedance load recommended for your amplifier by consulting the owners manual or specification sheet. Then figure the TOTAL impedance load presented by your loudspeakers. This is determined by adding the total number of speakers (in one channel) and dividing that number into the Speaker's impedance rating. Eg., two  $8\Omega$  speakers =  $4\Omega$  (8 divided by 2); four  $4\Omega$  speakers =  $1\Omega$  (4 divided by 4). Compare this number with the minimum impedance specified for the amplifier. If the recommended load is  $8\Omega$ , you can safely use  $4\Omega$ , etc. In the first case above, an  $8\Omega$  amplifier can be connected to two  $8\Omega$  speakers. In the second case, you must either reduce the number of  $4\Omega$  speakers you use or install an amplifier that will drive a  $2\Omega$  load.

## WIRING AND PLACEMENT

DO NOT mount the volume control in the same electrical box with AC house wiring, light switches, dimmers, or any other high voltage device or control. The VC can share gang boxes with other low voltage controls such as A/B speaker switches, infrared receivers and emitters, and other volume controls if these other devices are rated as Class 2 devices by the National Electrical Code. With 14-18 gauge cable, wire the volume

# INSTALLATION INSTRUCTIONS

## VC30RIM IMPEDANCE MATCHING STEREO VOLUME CONTROL

control between a single pair of speakers and the amplifier powering those speakers. Run four 14-18ga. wires for carrying speaker signals (L+, L-, R+, and R-) from the amplifier, through the walls or ceiling, to the volume control. We recommend high quality wire like Sonance MediaLinQ®. If using free standing speakers, run the wire through the wall or ceiling to a convenient location near the speaker and terminate it with a Sonance FielDress™ series system terminator or other audio jack.

## INSTALLATION FOR VC30RIM (SEE DIAGRAM 1)

1. Once the speaker wires have been run, install a standard light switch plaster ring or J-box that is approximately 3" in depth, available from an electrical supply source.
2. TURN THE AMPLIFIER/RECEIVER POWER OFF. Then connect the left or Channel-A speaker output, of the amplifier/receiver, to the left screw-to-connect input terminals of the volume control, observing proper polarity. For example connect L+ of the amplifier to L+ of the VC, and L- to L- (see diagram 2).
3. Repeat step 2 for the right or Channel-B speaker output.
4. Connect the left speaker wires to the left or Channel-A output terminals of the volume control. Check proper polarity of wires for correct speaker phase. For example connect the + terminal of the speaker to the + VC output, and - to - (see diagram 2).
5. Repeat step 4 for the right or Channel-B speaker connection.

## MOUNTING THE CONTROLS:

Once the unit has been wired, position volume control with terminals at top, and attach it to a standard light switch plaster ring or J-box. Use the included screws to attach the volume control to the electrical box. Attach the wallplate to the control using the screws provided. DO NOT OVER-TIGHTEN THE PLATE SCREWS OR YOU MAY DAMAGE THE PLATE. Finally, attach the knob to the control shaft. (See Diagram 3)

## OPERATION

Determine the maximum volume you wish to feed to the rooms in which you have volume controls and speakers. With your house music source (amplifier/receiver) turned down, turn the volume control(s) all the way up. Feed the amplifier/receiver a strong music signal. Gradually increase the amplifier/receiver volume until the volume in the room(s) is as loud as you're likely to ever listen. Take particular care that no audible distortion is heard through your speakers or speaker damage will occur. If you are using an amplifier with input level controls, such as the Sonance Sonamp® series amplifiers, adjust the level controls appropriately. Then return to the rooms with volume controls and lower the volume settings to normal

listening levels. Setting the maximum volume will ensure safe operation for speakers and amplifiers. If you think there should be sound coming from your speakers but do not hear anything when the VC is turned all the way up, DO NOT leave it in the full ON position when checking your sources or source material. Otherwise there may be a startling increase in volume when the problem is remedied, and speaker damage may occur.

## SPECIFICATIONS

Power Rating:	30 Watts RMS MAX INPUT/CH
Switch Type:	9 Position Light Touch Switch
Frequency Response:	20-20KHz $\pm$ 2dB
Speaker Impedance:	8 $\Omega$
Amplifier Impedance:	16 $\Omega$
Dimensions (WxHxD)Overall:	1-3/16" x 4" x 2-1/4" (45mm x 102mm x 57mm)
In-Wall:	1-3/16" x 2-7/8" x 2-1/4" (45mm x 73mm x 57mm)

## TECHNICAL ASSISTANCE

If you any have questions about the operation or installation of your Sonance volume controls, please call our Technical Assistance Department on any business day at:

• (800) 582-0772 or (949) 492-7777; from 9 a.m. to 5 p.m., PST.

## OBTAINING SERVICE

If your product should need repair or service, contact your authorized Sonance dealer for help or use the following procedure:

1. Prior to calling, note the product's model number, purchase date, and original dealer's name and address.
  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: Do not return the unit to Sonance without first obtaining a Return Authorization Number.
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.
  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 Return Authorization Number on the outside of the shipping carton. For warranty work, please include a copy of the original bill of sale inside the package.
  6. Ship the packaged unit to:

Technical Assistance Department  
 Sonance  
 961 Calle Negocio  
 San Clemente, CA 92673-6202

## WARRANTY COVERAGE (USA ONLY)

If, within five (5) years from the date shown on the bill of sale, the unit fails, due to a defect in workmanship or material, Sonance will, at its option and at no charge, repair or replace the components of such unit which prove to be defective.

For this warranty to be effective, the bill of sale must show that the unit was purchased from an "Authorized Sonance Dealer" and must list the price paid. This warranty shall apply exclusively to the original purchaser and shall not apply to units purchased for industrial or commercial use.

Furthermore, this warranty shall not apply if:

1. Damage to the unit was caused by accident, abuse, or misuse;
2. The unit was opened, modified, or repaired by unauthorized personnel; or
3. The unit was not used as outlined in the operating instructions.

## 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.

## DECLARATION OF CONFORMITY



We, Sonance  
 961 Calle Negocio  
 San Clemente, CA 92673  
 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 55020:1994

Annette DiSano  
 Sonance  
 San Clemente, CA U.S.A.

Diagram 1

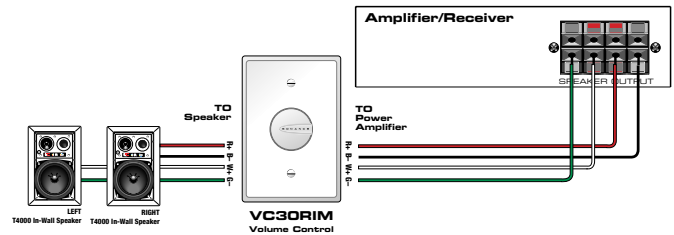


Diagram 2

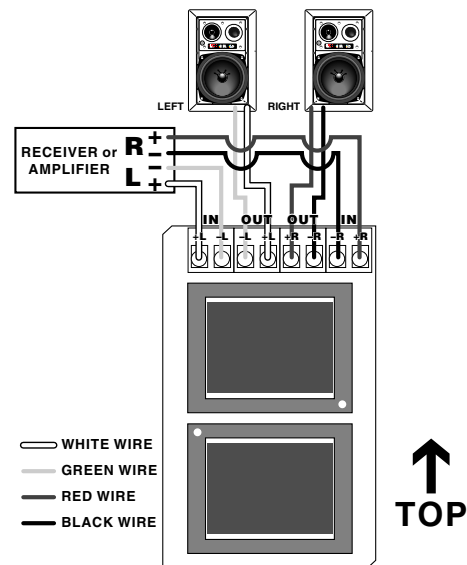


Diagram 3

