INTRODUCTION

The VC60RIM and VC60SIM are impedance-multiplying stereo volume controls that feature 12 control positions, soft-touch action and silent switching capability. The VC60RIM incorporates a rotary control; the VC60SIM incorporates a slider control. Both volume controls can be safely used with amplifiers that deliver up to 60 watts RMS per channel.

When properly implemented, Sonance VC60RIM and VC60SIM allow the safe use of multiple pairs of speakers with amplifiers not specifically designed to run the low-impedance loads presented by multiple speakers. Adjustable impedance jumpers allow as many as 8 pairs of 8-ohm speakers (or 4 pairs of 4-ohm speakers) to be driven by a single 8-ohm capable amplifier.

APPLICATIONS

The VC60RIM and VC60SIM are designed to have a single pair of speakers connected to a single volume control. Their impedance-multiplying feature allows multiple volume controls/speaker sets to be safely used with a single amplifier. The included adjustable impedance jumpers can be set to accommodate different total numbers of speaker/volume control sets.

Important Note: These volume controls are intended for use primarily in background music systems. The impedance jumpers increase the impedance seen by the amplifier, which reduces the amount of power reaching each pair of speakers, reducing the speaker’s overall output capability. The more speakers being driven by a single amplifier through VC60RIM/VC60SIM controls, the higher the impedance jumpers must be set and the lower the amount of power that will reach each speaker. Operating multiple sets of speakers through VC60RIM/VC60SIM controls with jumpers set lower than recommended in order to increase the system’s output capability can severely damage the amplifier.

If the system will include a pair of speakers intended for dedicated higher-volume music listening, we strongly recommend that those speakers be powered directly by a dedicated amplifier through a VC60RIM or VC60SIM standard volume control.

CONNECTIONS

WARNING: Turn the amplifier’s power OFF until you have completed all of the connections and have determined that they are correct. (If the amp’s AC plug is accessible we recommend that you unplug it from the wall outlet to avoid accidental turn-on and possible damage to the amplifier or speakers.)

The VC60RIM and VC60SIM have removable 4-pin screw connectors that simplify connecting the speakers and amplifier.

1. Bring the wires from the speakers and amp through a backless J-box.
2. Insert the speaker wires as shown into the holes in the 6-pin screw connectors. Make sure to insert the '+' and '-' leads into the correct holes (see illustration, below).

Important: Make sure there are no stray wires that can touch each other. Touching wires can cause a short-circuit that can damage the amplifier.

Note: The connectors can accommodate wire as large as #14 gauge.

3. Using a small flat-blade screwdriver, tighten the screws to secure the wires in the connector.
4. Pass the 4-pin screw connectors into the corresponding speaker terminals on the volume control until they lock into place.

MOUNTING

IMPORTANT: Do NOT install the volume control in the same electrical box as AC house wiring, a light switch or any other high-voltage device or control. The volume control can share gang boxes with other low-voltage controls such as A/V speaker switches, infrared receivers, and line level audio or video devices if these other devices are rated as Class 2 devices according to the National Electrical Code. Use the included hardware to mount the volume control in a single or double J-box as shown below. (Do not over-tighten the screws.) Attach your choice of the included Decora® (VC60RIM/B) or standard (VC60SIM only) hardware.

Note: If you are installing the volume control into a typical plastic J-box you will have to remove the J-box’s back panel to accommodate the control.
WARNING: Operating multiple sets of speakers through VC60RIM/VC60SIM volume controls with impedance jumpers set to lower values than recommended in order to increase the system’s volume capability can damage the volume controls and amplifier. If the system produces inadequate volume with the jumpers set properly, remove some of the speaker/volume control combinations from that amplifier and add an additional amplifier(s) to the system to power them.

OPERATION:
Setting the Maximum System Volume

Important: After you have set the impedance jumpers as shown on the previous page, you must set the maximum system volume before operating the system.

1. If the system has speaker/volume control combinations in more than one room, determine which room will be played the loudest.
2. Turn the amplifier’s volume control all the way down.
3. Feed the system a strong music signal.
4. Turn the volume control in the “loudest” room all the way up.
5. Gradually advance the amplifier’s volume control until the sound in the room is as loud as you’re likely to ever want it.
6. If you hear audible distortion, lower the amplifier’s volume until the distortion disappears.
7. Bring the volume control in each room up to the loudest listening level for that room.
8. Leave the volume controls already tested at their lowest listening level as you test new ones and listen for distortion. If you hear distortion, lower the amplifier’s volume until the distortion disappears.
9. Once the system has been set up in this way, use the volume control in each room to adjust the volume to the room that has the normal listening level. Do not change the amplifier’s volume setting.

WARNING: Operating the system at a volume that causes amplifier clipping will — besides producing inferior sound quality — saturate the volume control transformers and can damage the volume controls, the amplifier and the speakers. If you hear audible distortion, lower the amplifier’s volume until the distortion disappears.

If the system produces inadequate volume with the amplifier’s volume set to just below clipping, remove some of the speaker/volume control combinations from that amplifier and add an additional amplifier(s) to the system to power them.

TECHNICAL ASSISTANCE AND SERVICE
If you have any questions about the operation or installation of this product, please call our Technical Assistance Department on any business day at (800) 582-0775 or (949) 492-7777. From 7 a.m. to 5 p.m., Pacific Time.

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.
3. IMPORTANT: YOU MUST HAVE PRIOR AUTHORIZATION TO RETURN YOUR PRODUCT TO SONANCE.
4. 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. Please include a copy of the original bill of sale inside the package.
5. Contact United Parcel Service, Federal Express, or RPS to arrange prepaid (not collect) shipping. Do not use the U.S. Mail Service.

Sonance
191 Calle Amanecer
San Clemente, CA 92673, USA

WARRANTY COVERAGE (U.S. ONLY)
If the unit fails due to a defect in workmanship or material for a period of five (5) years, Sonance will, at its option and at no charge, repair or replace the components of the product 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 persons;
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 the 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.