



Redefining the way you experience sound.™

VLC-50 STEREO VOLUME CONTROL

Installation Instructions

PLEASE NOTE: Installation should be performed by qualified service personnel, and must meet all local building codes.

STEP 1: DETERMINE & SET IMPEDANCE MULTIPLICATION SETTINGS

- 1.) Count the total number of pairs of 4 Ohm and 8 Ohm speakers you are connecting. Count pairs of 6 Ohm speakers as 4 Ohm speakers.
- 2.) Determine if the amplifier can support a 4 Ohm or 8 Ohm speaker load. You can typically find this information in the amplifier owner's manual.
- 3.) Determine the correct impedance match jumper position from the charts shown below. See **Figure 2** if your amplifier can handle a 4 Ohm speaker load. See **Figure 3** if your amplifier can handle an 8 Ohm speaker load.
- 4.) Set the impedance match jumpers on all of the volume controls in the system to the same position (1X, 2X, 4X or 8X). See **Figure 1**.

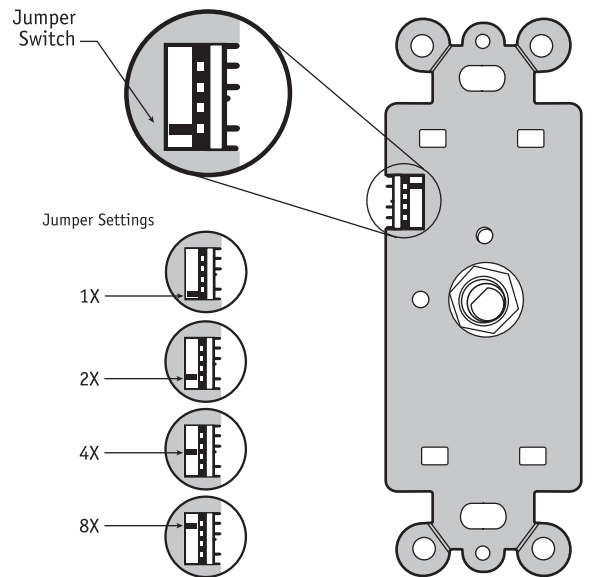


Figure 1

WARNING!

Make sure to set the impedance match jumpers on all of the volume controls in the system to the same position, otherwise serious **amplifier damage** may occur.

AMPLIFIER IS STABLE TO 4 OHMS Number of pairs of 8 Ohm speakers

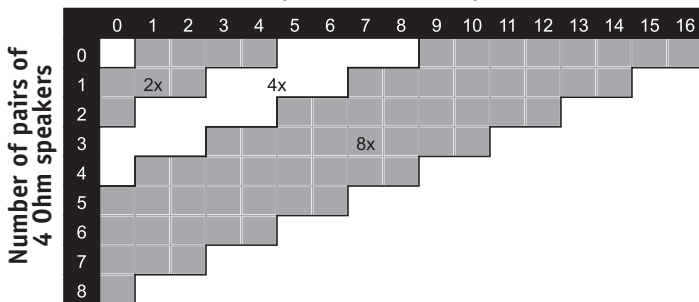


Figure 2

AMPLIFIER IS STABLE TO 8 OHMS Number of pairs of 8 Ohm speakers

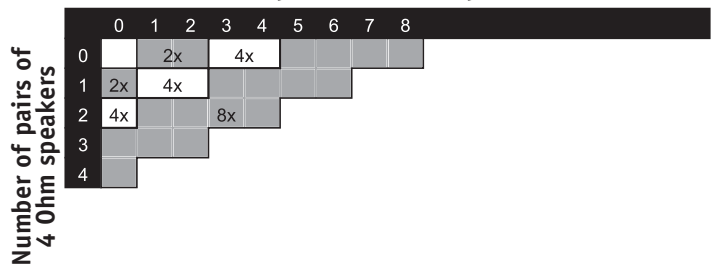


Figure 3

RBH does not recommend installing more than 8 volume controls in parallel. RBH also does not recommend installing more than two (2) 8 Ohm speakers per channel on each volume control without additional impedance protection.

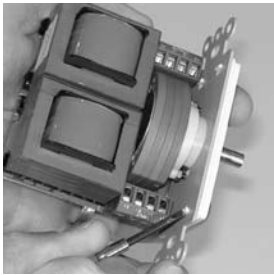
PLEASE NOTE: High impedance match setting's affect on volume

Setting the impedance match jumpers higher than 1X will yield less power per pair of speakers. For example: An amplifier rated at 100 Watts per channel RMS into 8 Ohms is to be used for 8 pairs of speakers. In order to accommodate 8 pairs of 8 Ohm speakers, an 8X impedance match setting must be used. Therefore, this will limit the 50 Watts of power to 6.25 Watts for each speaker pair, or one-eighth of the amplifier's power.

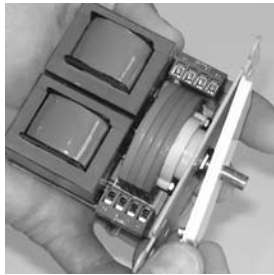
For assistance, please call 800-543-2205 or check <http://www.rbhsound.com> for updated instructions.

STEP 2: CHANGE TRIM COLOR SCHEME (Optional)

This RBH Volume Control comes with four different color scheme trim kits: White, Almond, Bone, Black and Brown. The Volume Control comes with the White trim scheme, but you can change the color scheme by following these steps:



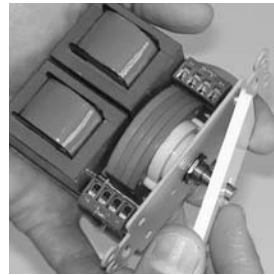
1.) Remove the control knob by pulling it away from the volume control post. Then, use a small screwdriver or other similar tool to gently push the plastic tabs through the metal back plate.



2.) Gently pry the faceplate off of the metal back plate.



3.) Remove the old faceplate from the volume control.



4.) Align the desired trim color faceplate tabs in the top two holes in the metal back plate. Then, make sure the other two plastic tabs align with the other two holes in the metal back plate.



5.) Gently (but firmly) press the new plastic faceplate onto the metal back plate. Then, place the new control knob onto the volume control post.

STEP 3: INSTALLATION

- 1.) Strip $\frac{1}{4}$ " to $\frac{3}{8}$ " of the insulation from the end of each wire and tightly twist the end of each wire until no frayed ends remain.
- 2.) Insert each wire from the amplifier into the proper L+, L-, R+ or R- input terminal and use a small screwdriver to tighten each screw; see Figure 4. Make sure to observe proper polarity for each connection.
- 3.) Insert each wire from the speakers into the proper L+, L-, R+ or R- output terminal and use a small screwdriver to tighten each screw; see **Figure 4**. Make sure to observe proper polarity for each connection.
- 4.) Insert both input and output terminals into the proper locations on the volume control; see **Figure 5**.
- 5.) Insert the volume control into the junction box and use the two longer screws to mount the volume control into the junction box.
- 6.) Place the outer trim ring onto the volume control face and use the two shorter screws to affix the outer trim ring to the volume control.

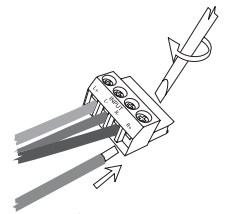


Figure 4

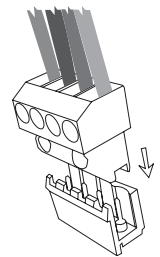


Figure 5

Technical Specifications

Audio Power Handling: 25 Watts continuous (RMS)/50 Watts maximum

Frequency Response: 25Hz-20kHz

Switch: 12 position rotary (including 'Off')

Wiring Requirements: 14-16 gauge wire. *Input & Output (separate):* Two separate two-conductor speaker wires, or 1 four-conductor speaker wire.

Mounting: Fits most standard single-gang junction boxes

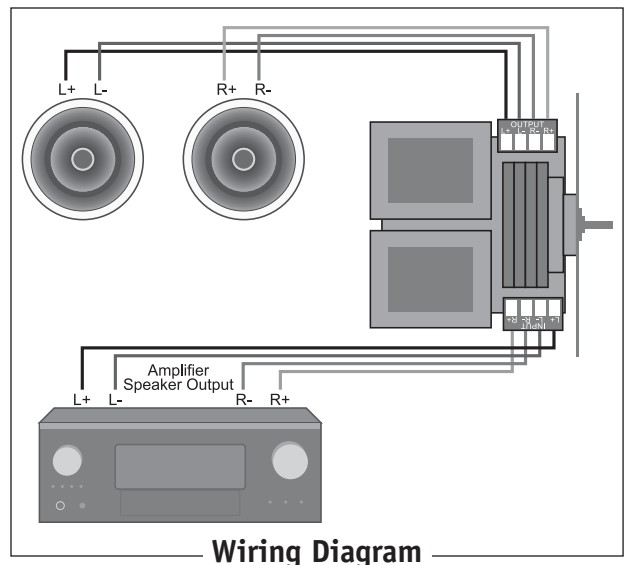
Impedance Multiplication: 1X, 2X, 4X and 8X

Unit Dimensions: $1\frac{11}{16}$ " W x $2\frac{7}{8}$ " H

Faceplate Dimensions: $2\frac{3}{4}$ " W x $4\frac{1}{2}$ " H

Warranty: 25 Years

NOTE: If your jumper setting switch only has four positions it may not include the 1X setting that was excluded in early production. Also some earlier production models may not show the settings on the faceplate so you will need to follow the positions shown in Figure 1 on other side of this page.



Wiring Diagram