VLC-100W
STEREO VOLUME CONTROL

Redefining the way you experience sound.™

Installation Instructions

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

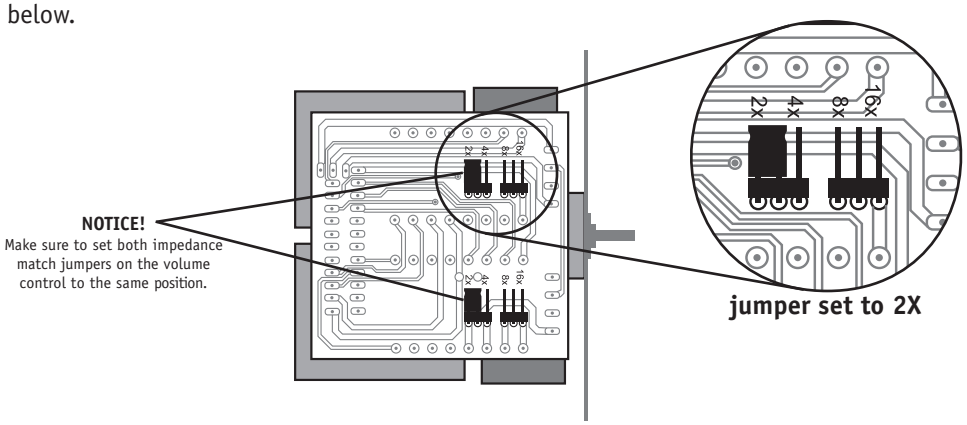
STEP 1: DETERMINE & SET IMPEDANCE MULTIPLICATION SETTINGS

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, 8X or 16X). See **Figure 1** below.



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**.

Figure 1

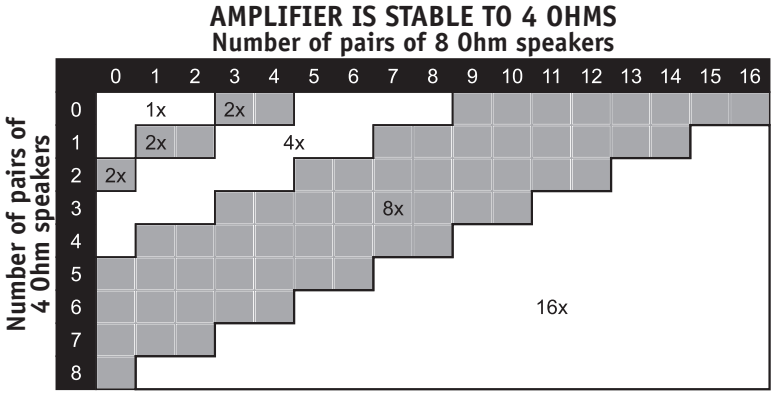


Figure 2

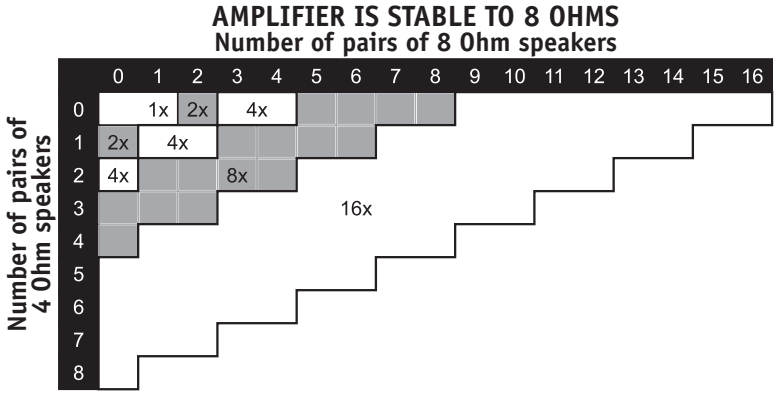


Figure 3

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 100 Watts of power to 12.5 Watts for each speaker pair, or one-eighth of the amplifier's power.

For assistance, please call 800-543-2205 or visit http://www.rbhsound.com.

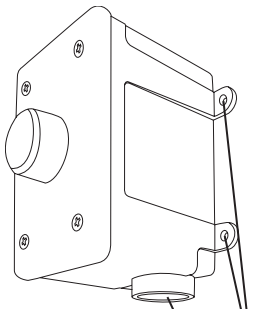
STEP 2: MOUNTING THE ENCLOSURE

Every outdoor/exterior mounting situation may differ, and it is impossible to describe every one. Please use the following few steps as a general guide for mounting this volume control:

1.) If conduit is to be used, run the necessary wiring up through the conduit and into the opening at the base of the enclosure. RBH recommends labelling the wires for future reference.

2.) Mount the enclosure onto the PVC conduit using the necessary adhesive.

3.) Use the four holes in the back sides of unit to secure the enclosure to a stationary object or wall.



¾" PVC conduit connection
3/16" Mounting hole x 4 holes

STEP 3: WIRING

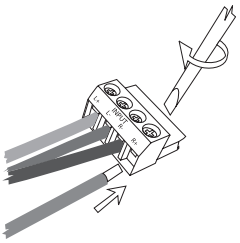


Figure 4

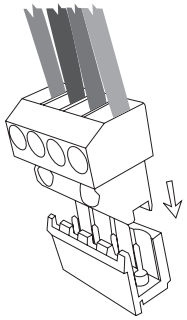


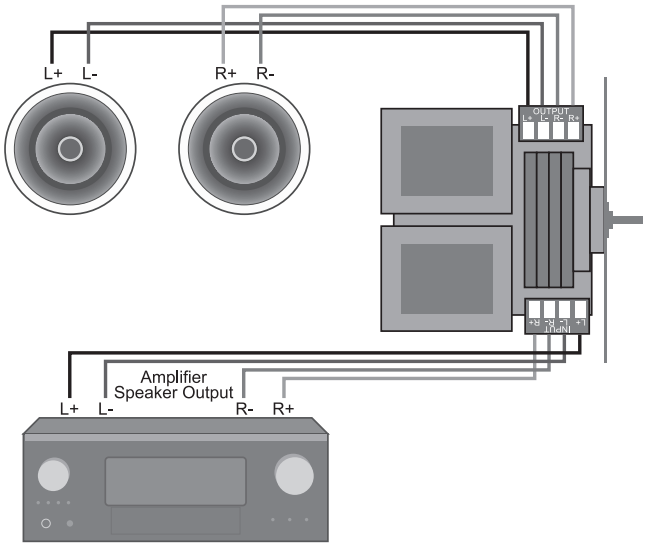
Figure 5

1.) Strip ¼" to ⅜" 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**.



Wiring Diagram

STEP 4: INSTALLING VOLUME CONTROL IN ENCLOSURE

1.) Insert Volume Control into enclosure.

2.) Use two of the supplied screws to fasten the Volume Control to the enclosure.

3.) Place the cover plate over the enclosure. Make sure the plastic/rubber gasket is in place behind the cover plate.

4.) Use four of the supplied screws to fasten the cover plate to the enclosure.

5.) Place the control knob onto the volume control post.

Technical Specifications

Audio Power Handling:	40 Watts continuous (RMS)/100 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, 8X & 16X
Unit Dimensions:	3⅞"W x 5"H x 4"D (including control knob)
Faceplate Dimensions:	3"W x 4¾"H
Warranty:	25 Years