

PROFICIENT™ Audio Systems

OWNER'S MANUAL

VC45i

Impedance Balancing Stereo Volume Control

INTRODUCTION

The VC45i is an impedance balancing wall mounted stereo volume control, which connects between a pair of speakers and the speaker level output of an amplifier, receiver or speaker selector.

Add any number of speakers to your amplifier by making simple adjustments to the bridge clips.

PLACING THE VC45i

Before mounting the volume control into the wall, consider how it will be used. It is important to keep in mind the location of the primary listening area and the ease of running the wire to the location you choose. It is common to mount the volume control by the door as you walk into a room, next to existing wall fixtures, or in the primary area where you will be listening to music.

Do not place the volume control into the same box as a 110V AC circuit. (i.e. light switch, electrical outlet, etc.). Speaker wires can act as an "antenna" for electrical noise. Placing

speaker wires too close to a light switch or dimmer may cause buzzing or popping sounds to be heard through the speakers. If you must locate the VC45i near electrical devices, use a separate electrical box.

Once the location has been determined, install a standard single gang plaster ring, or a single gang electrical box (light switch type) before installing the VC45i.

WIRING THE VC45i

CAUTION

- Please be sure that your amplifier or receiver is turned off prior to wiring the VC45i.
- Damage to your audio system may occur if the VC45i is not wired properly.

The VC45i features a Removable Wire Block Terminal, which allows for quick and easy wiring. You may find it easier to remove the wire block terminal from the VC45i before proceeding.

For best results, strip the speaker wire no more than 1/4" from the end. Loosen the screws on the underside of the wire block terminal to allow the wire to be pushed completely into the opening, then tighten the screws to secure the wire. **(see Figure 1)** Once all wires have been connected, replace the wire block terminal onto the VC45i.

If you need to remove the wire, simply loosen the screws on the underside of the wire block terminal.

Refer to **Figure 2** when wiring the VC45i:

1. Connect the amplifier or receiver's left speaker output to the left input terminals on the removable wire block terminal. Please observe proper polarity of the connections (+ amplifier to + input on the VC45i).
2. Repeat step 1 for the right side.
3. Connect the wires from the left speaker to the left speaker output terminals on the removable wire block terminal. Please observe proper polarity of the wires for correct speaker phase (+ speaker to + output).
4. Repeat step 3 for right speaker connection.

CAUTION

If the input and output connections are reversed, the minimum setting on the volume control would present a short across the amplifier or receiver output terminals, resulting in serious damage to your amplifier or receiver. Please double check steps 1 - 4. The VC45i cannot be connected in series with another volume control.

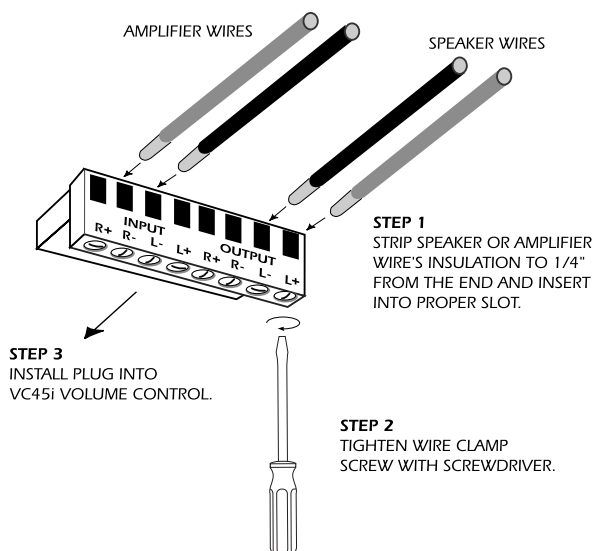


Figure 1

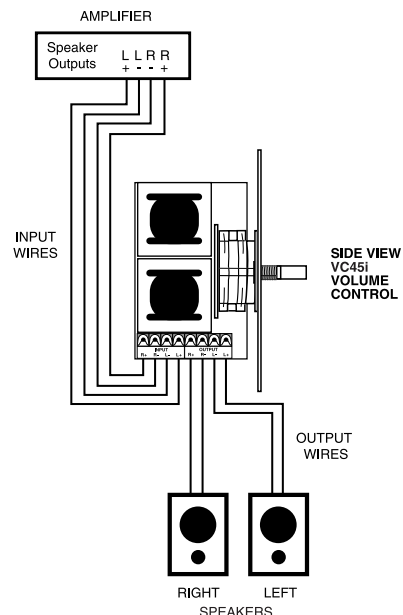


Figure 2

ADJUSTING THE BRIDGE CLIPS FOR MULTIPLE SPEAKERS

The VC45i is designed to run multiple pairs of speakers without damaging your amplifier or receiver. The adjustment is made by using bridge clips that can be easily changed. **NOTE:** Both bridge clips must have the same setting - i.e. 1x, 2x or 4x. (see **Figure 3**)

Please follow the recommendations in this section carefully. Failure to properly set the bridge clips may result in damage to your amplifier or receiver

Refer to **Chart A** to determine: a) the maximum number of speaker pairs that can be connected to your amplifier or receiver and b) the appropriate bridge clip setting (1x, 2 or 4x) to use on the VC45i.

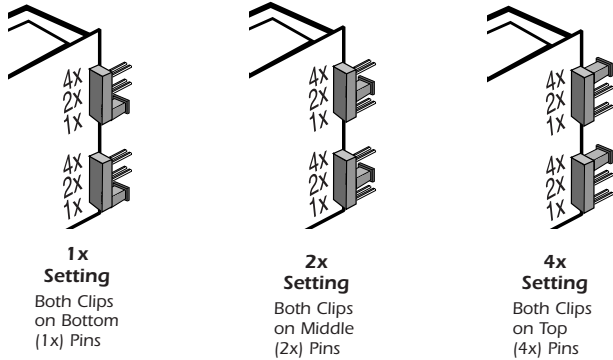


Figure 3

1. In the first column, determine the minimum impedance capability of your amplifier or receiver.
2. Move across the row to the number of 8Ω speaker pairs you wish to use.
3. The resulting number (1x, 2x or 4x) is the bridge clip setting appropriate for your configuration. **NOTE:** Both bridge clips must have the same setting.
4. The gray area indicates a setting that is slightly below the amplifier or receiver's minimum impedance, but will most likely work.

		Number of 8Ω Speaker Pairs								
		1	2	3	4	5	6	7	8	9
Minimum Amplifier Impedance Capability	8Ω	1x	2x	4x	4x	4x				
	6Ω	1x	2x	4x	4x	4x	4x			
	4Ω	1x	1x	2x	2x	4x	4x	4x	4x	4x

Chart A

MOUNTING THE VC45i

Once the VC45i has been wired, it is ready to be mounted into the wall. Referring to **Figure 4**, place the components of the control into the wall in the order illustrated. Use the enclosed screws to hold the components in place.

NOTE: The rotary switch is shipped with the control turned as far counterclockwise as it will turn (off). If you have changed this, return it to the full counterclockwise position before starting the installation.

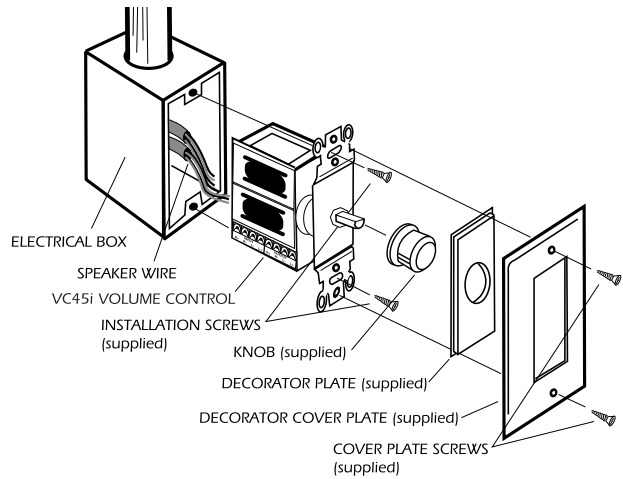


Figure 4

LIMITED TEN-YEAR WARRANTY

Proficient Audio Systems warrants to the original retail purchaser **only** that this product will be free from defects in materials and workmanship for a period of ten years, provided the speaker was purchased from a Proficient Audio Systems Authorized Dealer.

Defective products must be shipped, prepaid and insured, together with proof of purchase, to the Proficient Audio Systems Authorized Dealer from whom they were purchased, or to Proficient Audio Systems 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 of loss or damage in transit is to be borne by the purchaser.

If, upon examination at the Factory or Proficient Audio Systems Authorized Dealer, it is determined that the unit was defective in materials or workmanship at any time during this warranty period, Proficient Audio Systems or the Proficient Audio Systems 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, Proficient Audio Systems, 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, Proficient Audio Systems assumes no responsibility or liability for such modification. All replaced parts and product become the property of Proficient Audio Systems. 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 Proficient Audio Systems. 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 Proficient Audio Systems be liable for any incidental or consequential damages arising out of the use or inability to use the product, even if Proficient Audio Systems or a Proficient Audio Systems 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.

Should you have any questions regarding this, or any other Proficient Audio Systems product, please call our service hotline at (909) 787-9940. We are available to assist you every weekday, except holidays, between the hours of 7:00 a.m. and 5:00 p.m. PST.



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