

### 100 Watt Impedance Matching Volume Control

## Control Placement

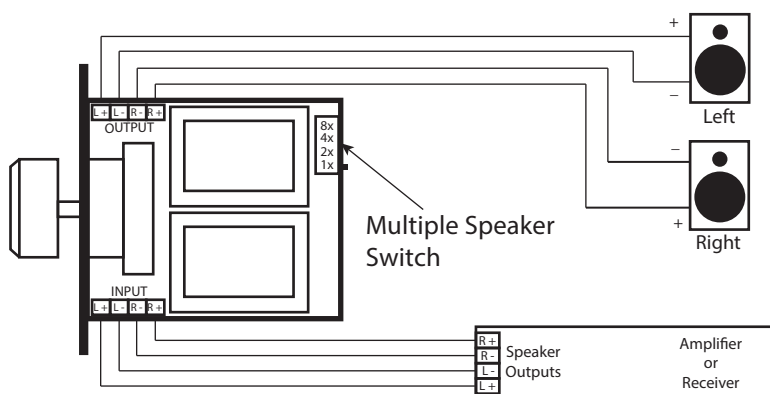
When deciding where the volume control will be mounted in the wall, consider the various ways it will be used, the primary listening area and the ease of running the wire to your chosen location. The most common locations to mount volume controls are by the door as you walk into the room, next to existing wall fixtures, or in the area that you will be listening to music. If you do not understand any part of these instructions, please contact your Vanguard Dynamics dealer. Improper wiring could cause damage to your audio system.

Do not put the 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. Running speaker wires too close to a light switch or dimmer may cause a buzzing or popping sound to be heard through the speakers. If you must locate the volume control near electrical devices, use a separate electrical box.

Once a location has been chosen, you may install the control after you have first installed a standard single gang plaster ring, or a single gang electrical box (light switch type).

**Figure 1**

For the best results, strip the wire no more than 1/4" from the end and push the wire completely into the opening on the connector.



## Wiring

### CAUTION :

Please make sure your amplifier or receiver is OFF before proceeding.

1. Connect the amplifier's or receiver's left speaker output to the left input terminal of the volume control. Please check for proper polarity of the connections (+ amplifier to + input on the volume control).
2. Repeat step 1 for the right channel.
3. Connect the wires from the left speaker to the left speaker output terminal of the volume control. Please check for proper polarity of the wires for correct speaker phase (+ speaker to + output).
4. Repeat step 3 for right speaker connection. (See Figure 1 for illustration)

### 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. This may seriously damage your amplifier or receiver. Please double check steps 1 through 4. This volume control cannot be connected in series with another volume control.

## Adjusting The Switch for Multiple Speakers

The Vanguard Dynamics volume control is designed so that you may run multiple pairs of speakers without damaging your amplifier or receiver. The adjustment is made by using a switch that can be easily changed. Please follow the recommendations in this section carefully. Failure to properly set the switch may result in damage to your amplifier or receiver.

1. Determine the minimum recommended load that your amplifier or receiver can handle.
2. Determine how many 8 ohm speakers will be attached to one channel (left or right) of the amplifier. Find the number under 8-Ohms on the chart (See Figure 2).

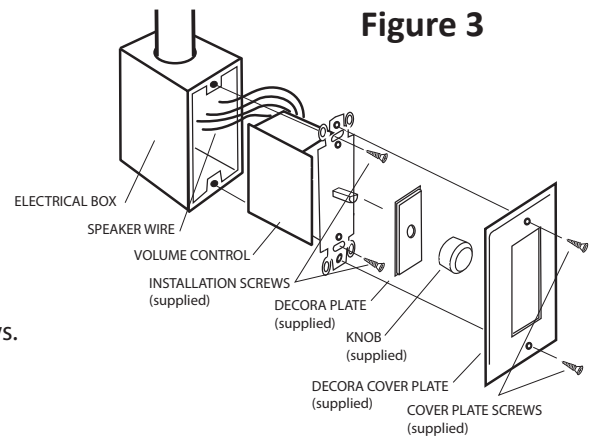
**Figure 2**

Number of 8-Ohm Pairs	Switch Settings
1	1x
2	2x
3-4	4x
5-8	8x

# Installation

Once the control has been wired, it is ready to be mounted into the wall.

1. Install the volume control into the electrical box, making sure that no wires are pinched or shorted. Then use installation screws to secure the volume control.
2. Select the color Decora plate and snap onto the volume control.
3. Attach the knob. The rotary knob 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 installation.
4. Attach the matching Decora cover plate and secure using the cover plate screws. (See Figure 3)



## LIMITED LIFETIME WARRANTY

Vanguard Dynamics warrants to the original retail purchaser only that this Vanguard Dynamics product will be free from defects in materials and workmanship, provided the speaker was purchased from a Vanguard Dynamics Authorized Dealer.

Defective products must be shipped, together with proof of purchase, prepaid insured to the Vanguard Dynamics Authorized Dealer from whom they were purchased, or to the Vanguard Dynamics factory at the address listed on this installation 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 Vanguard Dynamics Authorized Dealer, it is determined that the unit was defective in materials or workmanship at any time during this warranty period, Vanguard Dynamics or the Vanguard Dynamics 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, Vanguard Dynamics, 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 the mounting modification is required, Vanguard Dynamics assumes no responsibility or liability for such modification. All replaced parts and product become the property of Vanguard Dynamics. 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 Vanguard Dynamics. 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 replacement as provided above. In no event will Vanguard Dynamics be liable for any incidental or consequential damages arising out of the use or inability to use the product, even if Vanguard Dynamics or a Vanguard Dynamics 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.

In our attempt to constantly improve our products, features and specifications are subject to change without notice.



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