



**126W ROTARY  
VOLUME CONTROL**

12 STEP VOLUME CONTROL

# 126W ROTARY VOLUME CONTROL

12 STEP VOLUME CONTROL

The 50-7884 is a great way to control the volume of a speaker system using a wall mounted gang box. The 50-7884 impedance matching can be modified during an installation by using the provided slide switch. This will allow for matching requirements when adding speakers and also will provide the ability to shut off the volume when required.

**Caution: This volume control is limited to a maximum of 126 watts RMS 63 watts maximum per channel.**

## Volume Control Placement

Select a location that is within reach of the speaker wires and easy to reach for using the volume control. Once the location has been determined, install a single gang plaster ring, or a single gang electrical box before installing the OE-VC126.

Caution: Do not install the 50-7884 into electrical boxes with 110Volt devices. (i.e. light switch, electrical outlet, etc.)

Note: the depth of the unit is 2-17/25" Behind Plate.

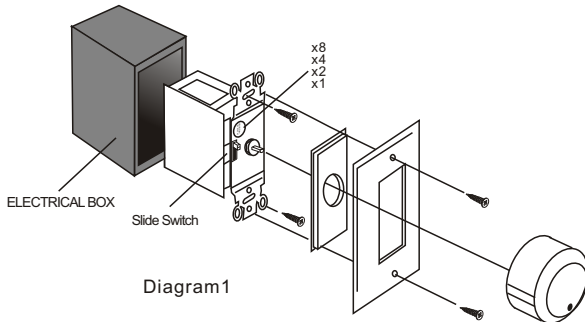


Diagram 1

## DETERMINING THE PROPER SWITCH SETTING FOR IMPEDANCE MATCHING

The Slide Switch must be set in a position that correctly multiplies the impedance of the system to a level that is equal to or greater than the impedance of the amplifier. The Slide Switch setting can be determined using the following simple steps

- 1) Determine the amplifier's minimum impedance. The amplifier's minimum impedance is usually found following Wattage and Frequency Response in the amplifier's specification page of the manual. It may also be listed on the back panel of the amplifier near the speaker terminals. AC impedance is measured in ohms.
- 2) Identify the correct impedance-matching chart according to the amplifier's minimum impedance. There are two impedance matching charts, one for 8 ohm amplifiers and one for 4 ohm amplifiers. Choose the chart that describes your amplifier. If your amplifier is 6 ohm stable, use the 8 ohm chart.
- 3) Determine the impedance for each pair of speakers by referring to its manual.
- 4) Determine the total number of 4 ohm pairs of speakers. (reference the chart below)
- 5) Determine the total number of 8 ohm pairs of speakers. (reference the chart below)
- 6) Follow the appropriate row and column to determine Slide Switch settings. (ex. see Diagram 3)

8Ω Speakers (Pair)

	0	1	2	3	4	5	6	7	8	9	10	11	12
0		x1	x1	x1	x1	x2	x2	x2	x2	x4	x4	x4	x4
1	x1	x1	x1	x2	x2	x4	x4	x4	x4	x4	x4	x4	x4
2	x1	x2	x2	x2	x4	x4	x4	x4	x4	x4	x4	x4	x4
3	x2	x2	x2	x4	x4	x4	x4	x4	x4	x4	x4	x4	x8
4	x2	x4	x4	x4	x4	x4	x4	x4	x4	x8	x8	x8	x8
5	x4	x4	x4	x4	x4	x4	x8	x8	x8	x8	x8	x8	x8
6	x4	x4	x4	x4	x4	x8	x8	x8	x8	x8	x8	x8	x8
7	x4	x4	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8
8	x4	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8
9	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8

Diagram 2

8Ω Speakers (Pair)

	0	1	2	3	4	5	6	7	8	9
0		x1	x1	x1	x1	x2	x2	x2	x2	x4
1	x1	x1	x1	x2	x2	x4	x4	x4	x4	x4
2	x1	x2	x2	x2	x2	x4	x4	x4	x4	x4
3	x2	x2	x2	x4	x4	x4	x4	x4	x4	x4
4	x2	x4	x4	x4	x4	x4	x4	x4	x4	x8
5	x4	x4	x4	x4	x4	x4	x4	x4	x4	x8

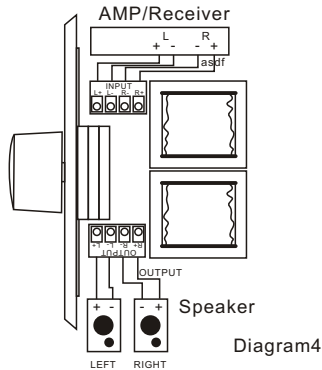
Diagram 3

**Example:** Diagram 3 shows an 8 ohm minimum impedance amplifier with 1 pair of 4 ohm speakers and 3 pair of 8 ohm speakers. The chart indicates the Slide Switch setting should be set at X2

## Connections

**Caution:** Make sure your amplifier or receiver is turned off and set the volume to minimum.  
Set the 50-7884 volume to maximum (fully clockwise).

- 1) Connect the speaker cable to the volume control:
  - a. Strip  $\frac{1}{4}$ " of insulation from the end of each cable
  - b. Tightly twist the wires in each cable until there are no frayed ends.
  - c. Insert the 4-conductor speaker cable from the amplifier into the input terminals.
  - d. Insert the two 2-conductor speaker cables from the first pair of speakers into the output terminals.
- 2) Connect additional speakers in parallel.
- 3) Make sure that all connections between your amplifier and the volume control, and between the volume control and each speaker, are in right "phase", that is (+) to (+) and (-) to (-).
- 4) Turn the volume knob to the "off" position (fully counterclockwise)
- 5) Screw Gang-box into place
- 6) Put on faceplate and screw in place using the screws.



## Specifications

Power Handling: 63 Watts Per Channel 126 Watts Peak Power  
 12 Steps  
 Total Attenuation: 42dB (Max)  
 Frequency Response: 20Hz - 20kHz  
 Depth: 2-17/25" Behind Plate  
 Colors included: White, Bone, Almond

## 1.Limited Warranty

MCM Custom Audio products are warranted by MCM Electronics, against manufacturer defects for a period of one year from the original date of purchase. This warranty is limited to manufacturer defects, in either materials or workmanship. MCM Electronics, or any other worldwide divisions of Premier Farnell PLC, are not responsible for any consequential or inconsequential damage to any other component, structure or the cost of installation or removal of said items.

For questions or specific information regarding warranty replacement or repair, contact: MCM Electronics 650 Congress Park Drive

