

## CONNECTIONS

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.

**Caution:** Make sure your amplifier or receiver is turned off and set the volume to minimum. Set the VC-120I volume to maximum (fully clockwise).

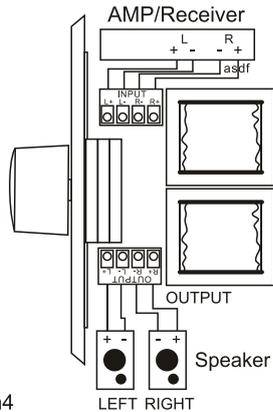


Diagram 4

### Specifications:

60 Watts Per Channel 120 Watts Peak Power  
12 Steps of Attenuation: 42dB (Max)  
Frequency Response: 20Hz - 20kHz Depth: 2 5/8" Behind Plate  
Includes White, Bone and Almond Colored Plates & Knobs

# MT-PowerAUDIO

## INSTALLATION INSTRUCTIONS



### VC-130

User Manual

# Volume Control

## Introduction

Thank you for buying Volume Control. Please read and have a thorough understanding of the entire manual before installation and use. Keep the manual for maintenance.

# 120 WATT ROTARY VOLUME CONTROL

## IMPEDANCE MATCHING VOLUME CONTROL

The VC-130 is a great way to control the volume of a speaker system using a wall mounted gang box.

The VC-130 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 120 watts RMS 60 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 VC-1201.

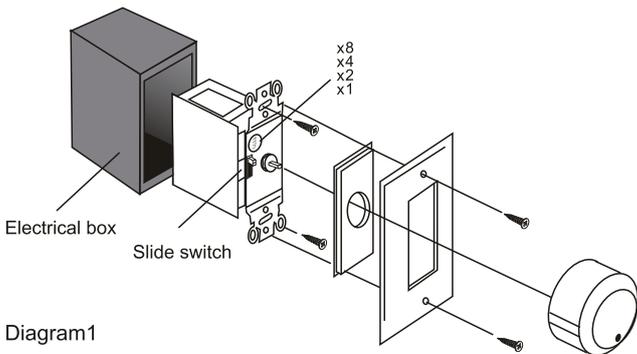


Diagram 1

**Caution:** Do not install the VC-130 into electrical boxes with 110Volt devices. (i.e. light switch, electrical outlet, etc.).

**Note:** The depth of the unit is 2 5/8" Behind Plate.

### 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	13	14	15	16
4Ω Speakers (Pair)	0	-	x1	x1	x2	x4	x4	x4	x4	x8								
	1	x1	x2	x4	x4	x4	x4	x8										
	2	x2	x4	x4	x4	x4	x8											
	3	x4	x4	x4	x8													
	4	x4	x8															
	5	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8
	6	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8
	7	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8
	8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8	x8

		8Ω Speakers (Pair)								
		0	1	2	3	4	5	6	7	8
4Ω Speakers (Pair)	0	-	x1	x2	x4	x4	x8	x8	x8	x8
	1	x2	x4	x4	x8	x8	x8	x8	x8	x8
	2	x4	x8							
	3	x8	x8	x8	x8	x8	x8	x8	x8	x8
	4	x8	x8	x8	x8	x8	x8	x8	x8	x8

Diagram 2

For 4 Ohm Amplifiers

Diagram 3

For 8 Ohm Amplifiers

**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 X8.