



VolumeMate™

TWO WAY VOLUME CONTROL SYSTEM

The VolumeMate(tm) two way volume control system is designed to allow convenient control of speaker volume from two locations in the same room. It could also be used for indoor/outdoor control over speakers on a deck or patio.

SPECIFICATIONS

25 Watt Model	
Attenuator type:	Tapped auto transformer.
Switch:	12 position rotary, make-before-break contacts, low torque specifications for smooth feel.
Connector:	Screw tight type, or removable.
Power rating:	UL Listed @ 25 Watts RMS continuous, 35 Hz-20 KHz, 75 Watts audio.
Core saturation:	Studies reveal that the transformer core saturation @ 35 Hz is 25 Watts.
Transformers:	Tri-filar wound for flat response and minimum phase shift, grain-oriented, -34 dB in 12 steps, 8 steps @ -3 dB each, 1 step @ -4 dB, 1 step @ -6 dB, last step OFF.
OPTIMATCH(tm) equipped:	Will match impedance for almost any situation. Mechanical index permits presetting load impedance multiplication by X2, X4, X8, X16, X32, X64 etc., which can be changed at any time.



72 Watt Model	
Attenuator type:	Tapped auto transformer.
Switch:	12 position rotary, make-before-break contacts, low torque specifications for smooth feel.
Connector:	Screw tight type, or removable.
Power rating:	UL Listed @ 72 Watts RMS continuous, 35 Hz-20 KHz, 216 Watts audio.
Core saturation:	Studies reveal that the transformer core saturation @ 35 Hz is 75 Watts.
Transformers:	Tri-filar wound for flat response and minimum phase shift, grain-oriented, -34 dB in 12 steps, 8 steps @ -3 dB each, 1 step @ -4 dB, 1 step @ -6 dB, last step OFF.
OPTIMATCH(tm) equipped:	Will match impedance for almost any situation. Mechanical index permits presetting load impedance multiplication by X2, X4, X8, X16, X32, X64 etc., which can be changed at any time.



OPERATION

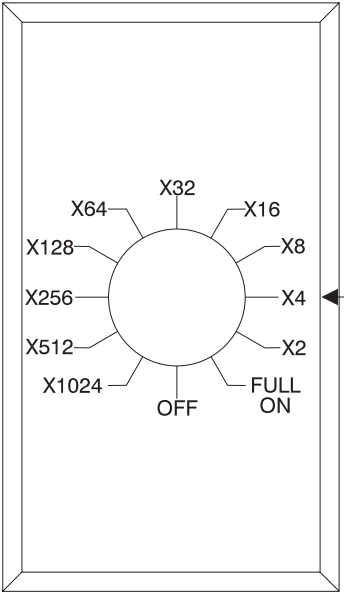
Operation of your VolumeMate(tm) is similar to a room with a lamp and two light switches to control that lamp. In this case, a pair of speakers is controlled by two volume controls. On the front of each volume control is a rocker switch. On approaching either volume control, turn it's knob and observe whether or not the volume changes. If it doesn't, throw the rocker switch on that volume control. It is NOT necessary to go back to the other volume control to transfer control. This makes indoor/outdoor control very easy. There's no need to go into the house to control volume, or if in the house, the outside volume can be turned off from inside.

INSTALLATION

The VolumeMate(tm) system requires two separate wiring groups. The first is a 4 conductor wire connecting the amplifier to both VolumeMate(tm) controls. The other is a 6 conductor wire connecting both VolumeMate(tm) controls. Installation requires a double and a separate single gang box mounted in the walls. The speakers should be wired to the single gang box location. Follow the wiring diagram on the back of this page observing the following:

1. Make connections by stripping the wire insulation back about 3/16". Twist any loose strands tightly.
2. Insert the wires into the openings on the connectors, then tighten the screws. Check for any loose strands that might cause a short circuit. Make sure the metal part of the screw connector engages the bare wire, NOT the insulation.
3. If using the OPTIMATCH(tm) impedance matching version, set the index following the chart below. To set, remove knob and loosen nut to reposition index. Make sure the index is not between detent positions and tighten.
4. Install the control in its operating location. (SUGGESTION: Leave control 3 or 4 positions CCW from maximum before firing up the system for the first time to avoid "blasting" the speakers, while still having enough sound to observe operation.

OPTIMATCH(tm) is a new concept in self-impedance matching controls. It can be used either as a full range volume control, or as a impedance matching volume control that can be adjusted to meet the requirements of your installation. One simple adjustment can be made when the control is connected, and can be changed to accommodate additions to the installation at any time. It can also be easily retrofitted to almost any existing system.

IMPEDANCE MULTIPLES	#4 Ohm Speakers Per Channel	#8 Ohm Speakers Per Channel	Load (Ohms)	Tap Setting For Matchit(tm)	No. of Available Steps for Optimatch(tm) Controls	
		2	4.0000	X2	11	
			3	2.6667	X4	10
	2	4	2.0000	X4	10	
		5	1.6000	X8	9	
	3	6	1.3333	X8	9	
		7	1.1429	X8	9	
	4	8	1.0000	X8	9	
	5	9	0.8889	X16	8	
	6	10	0.8000	X16	8	
		11	0.7273	X16	8	
	7	12	0.6667	X16	8	
		13	0.6154	X16	8	
	8	14	0.5714	X16	8	
		15	0.5333	X16	8	
	9	16	0.5000	X16	8	
		17	0.4705	X32	7	
16	18	0.2500	X32	7		

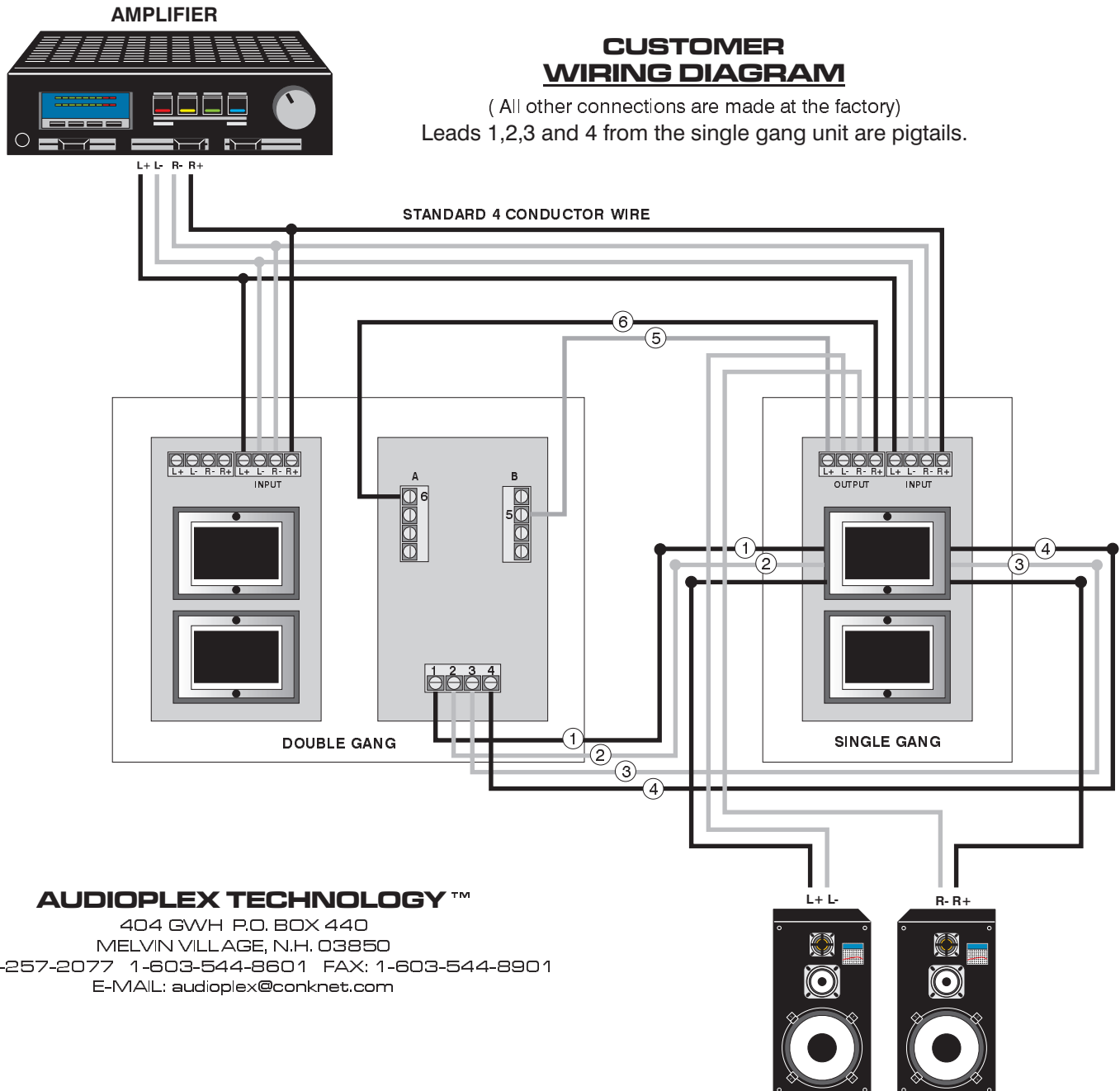
We do not recommend wiring more than 12 Optimatch(tm) controls in parallel. In these instances more impedance protection should be inserted before the volume controls. The OC-12 is a good choice in this case.

WARRANTY

Your AUDIOPLEX TECHNOLOGY(tm) VolumeMate(tm) is covered by a ten year warranty against any defects in workmanship and materials. Any defects will be remedied without charge for labor or parts during this period of time following the date of purchase.

Damage incurred by shipping or accident is not considered to be a defect, and not covered by this warranty. AUDIOPLEX TECHNOLOGY(tm) is not responsible for defective operation caused by modification or service by any unauthorized person or agency.

The product must be properly installed and operated according to instructions for the warranty to apply. Any necessary servicing must be done by AUDIOPLEX TECHNOLOGY(tm). The product must be returned expenses prepaid, with written authorization from the company. The product must be shipped with the proof of purchase and in the original carton and packing material to avoid damage. This warranty gives you specific legal rights. You may have other rights which vary from state to state.



AUDIOPLEX TECHNOLOGY™

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