

INSTALLATION MANUAL



OPT-6 SPEAKER CONTROL

Your OPT-6 Speaker Selector-Volume Control is designed to operate with up to 6 pairs of loudspeakers of 4, 8, and 16 Ohms impedance in any combination. It can be used with one or two stereo amplifiers, or with 4 Channels of a surround-sound type sound system. Each of the 6 output control channels can be individually switched to the amplifier connected to A AMPLIFIER INPUT, or one connected to the B INPUT (if any). Thus it is convenient to listen to different program material in different rooms, swap front and rear channels in a surround-sound system, etc.

Impedance loading protection for the power amplifier (s) is built-in, and fully automatic. Six 72 Watt OPTIMATCH (tm) attenuators are employed, pre-set so that the worst-case operating condition (six pairs of 4 Ohm speakers operating simultaneously at maximum volume) will appear as a 5.3 Ohm load on the amplifier. Higher impedance speakers and/or lower volume settings of the controls will reflect a higher impedance to the amplifier, so that cool, safe operation is assured.

Since impedance matching protection is achieved by use of OPTIMATCH (tm) transformers, there is no heat generated in the matching process- this assures safe operation in a closed environment. There are no extra buttons to operate that must be remembered to maintain safe operation. An additional advantage is that there is no power loss in the OPT-6. There is a level drop of -9 dB to the speakers at maximum volume settings of the OPT-6 controls (at the factory setting), but this is not a power loss. When all 6 controls are set at maximum volume, the full power of the source amplifier is available, divided equally among each of the 6 speaker pairs.

Both the A and B amplifier inputs are identical, and completely independent of each other. Speakers selected for operation with the A amplifier input will have the same impedance protection as those that may be operating with the B amplifier. The number of pairs of speakers in operation on either channel will have no effect on any operating on the other.

Other OPT-6 features include power handling capability of up to 72 Watts RMS continuous (216 Watts audio) at 8 Ohms in any switching mode. The LEFT and RIGHT channels are completely separate to assure safe operation with all types of amplifiers, including those with "bridging" outputs.

The volume attenuators are tapped auto-transformer type with attenuation of 3 dB/step except for the last 2, which are 4 and 6 dB. These controls do not heat up in operation, nor do they deteriorate over long time use.

Connections to amplifiers and speakers are illustrated in the back of these instructions. Remember that the LEFT and RIGHT circuits are separate, so connections must be made correctly or the system will not operate properly (note that the INPUT connector blocks are green and the OUTPUT connector blocks are black).

Heavy duty screw down connections are provided on the rear panel to insure positive, long lasting connections. These connections can be used with wire up to 3/16" diameter. To make connections, strip about 3/8" of insulation from the wire end. Unscrew the connector on the rear panel to open the hole. Insert the stripped wire end into the opening and tighten the screw. Make sure no loose ends stick out to cause problems. Check that the bare wire is connected to the hole, not the insulation.

If only one amplifier is to be used, connect it to the AMPLIFIER "A" terminals as shown. Make sure the + and -, and L and R channel connections are correct to avoid unsatisfactory operation or dead channels.

The same precautions should be used when connecting the speakers, crossed channels, polarity, or grounds will result in improper operation.

OPERATION

Push all ON-OFF switches that will be used in to ON. Initially, best results will probably be obtained with all AMPLIFIER A-B switches, out at A. Set the volume control for what is likely to be the loudest location at maximum (fully clockwise), and the rest about halfway down. Turn the HI-FI system on, and adjust it's volume for normal listening level at the loudest location. Then adjust the volume for the remaining locations to a satisfactory loudness. If necessary, the same procedure can be repeated for the B AMPLIFIER channel (if any).

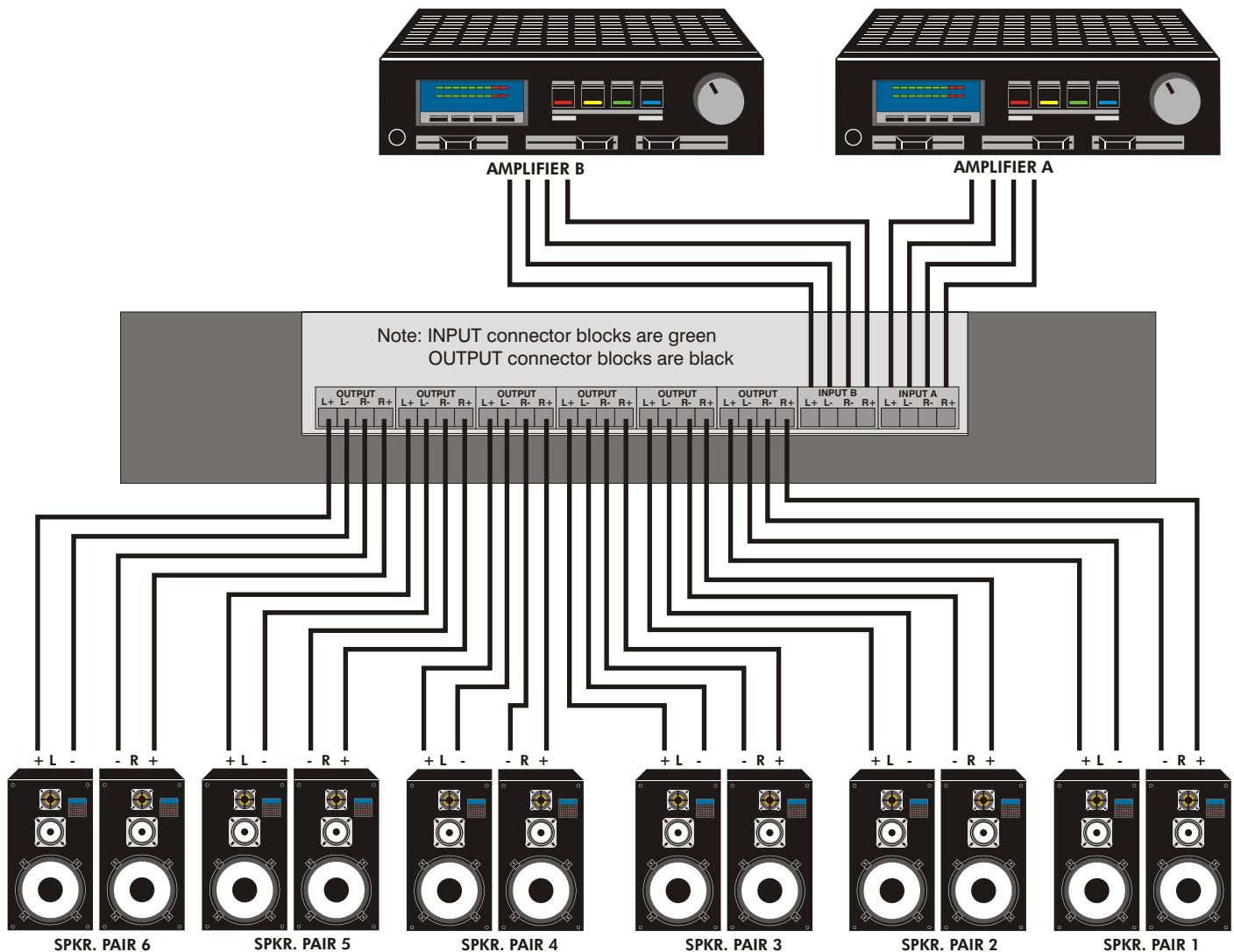
WARRANTY

Your AUDIOPLEX TECHNOLOGY® OPT-6 Speaker Selector is covered by a LIFETIME warranty against any defects in workmanship and materials. Any defects will be remedied without charge for labor or parts.

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

The unit must be properly installed and operated according to instructions for the warranty to apply. Any necessary servicing must be done by AUDIOPLEX TECHNOLOGY.® 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.

WIRING DIAGRAM



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