

INSTALLATION MANUAL



MASTER SERIES MS-6, MS-8, MS-10 AND MS-12

SPECIFICATIONS

Power Handling: 250 Watts RMS.
Size: 17"W x 3.5"H x 5"D.
Connectors: Screw type connectors.

Your MASTER SERIES speaker selector uses high power transformers with selectable taps which allow you to obtain maximum power transfer while maintaining a safe load of 4 Ohms or higher on the driving amplifier, regardless of the number of speakers in use at the time. A six position rotary switch is provided on the bottom of the unit, accessible with a blade type screw driver inserted through the access hole. This permits selection of the appropriate tap. Note that there is no significant power loss with transformer matching. When optimally set, there will be a level drop, but the full amplifier power output will be available, divided equally among speakers in operation.

This system is capable of transforming a 1/3 Ohm load to appear as a 4 Ohm load to the amplifier, which is equivalent to 12-4 Ohm or 24-8 Ohm speakers operating simultaneously. Thus it is apparent that many more speakers can be used than the number of ON-OFF switches (6-12) suggest. Some switches can be used to control individual speaker pairs, while others may be used to control "zones" consisting of several pairs on the same switch.

The impedance matching transformers are rated for continuous operation at 250 Watts RMS (750 Watts music power). They are connected so that the right and left channels are completely isolated electrically. Wiring of the switch box is to screw terminals on the rear panel, which can accommodate wire up to 10 gauge, more than adequate for most installations.

The optional SONIC STABILIZER and IMPEDANCE INDICATING SYSTEM do not require any different connections; the following information is applicable to all model variations. Information about these special features follows the installation instructions.

INSTALLATION

Prepare your wire leads by stripping about 1/4" of insulation off each of the wire ends. Twist strands tightly together so that none stick out to cause possible short circuits. Wire the unit following the diagram on the following page. OBSERVE POLARITY! (Note that the INPUT connector block is green and the OUTPUT connector blocks are black).

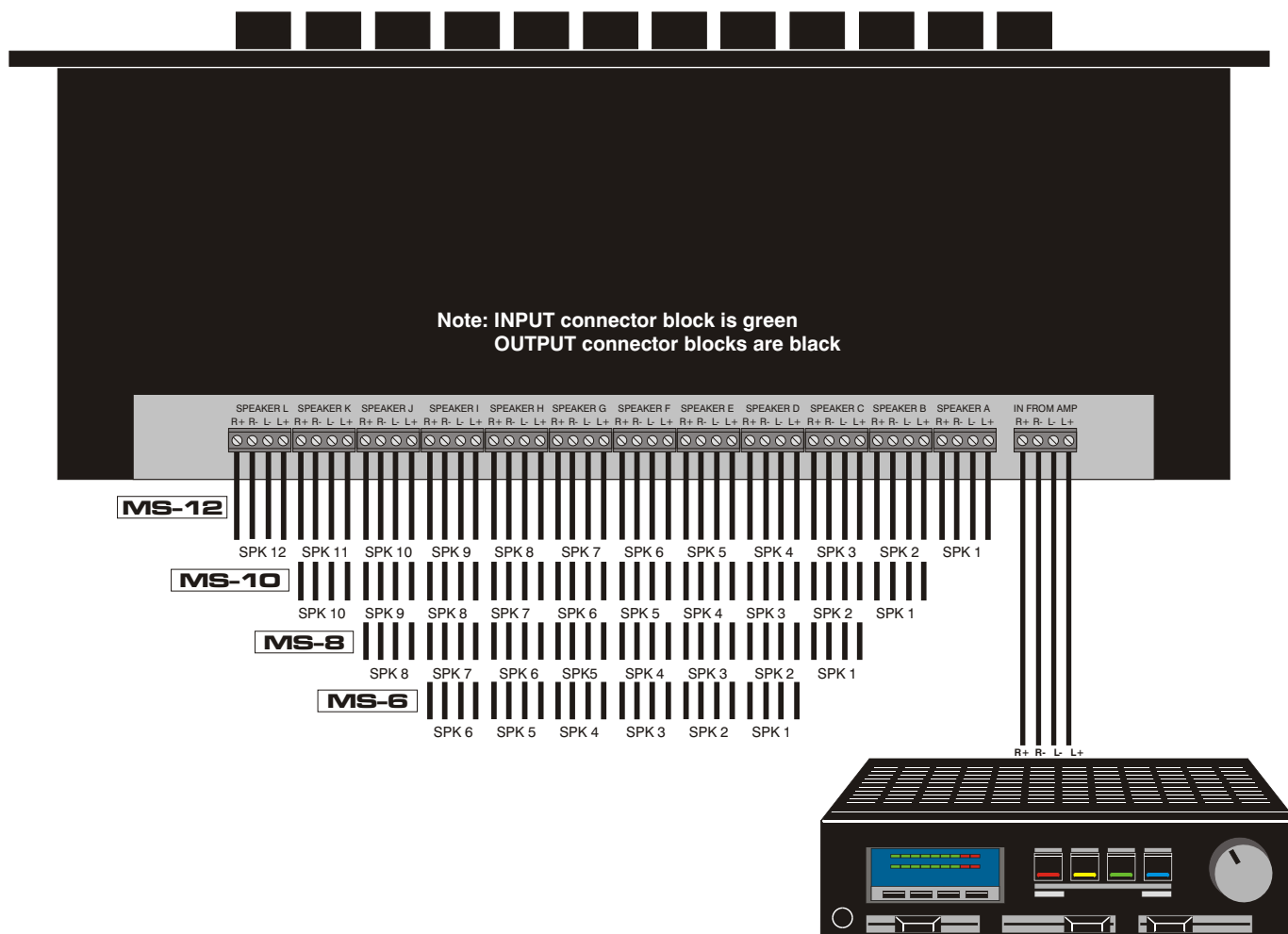
If connecting several pairs of speakers in a "zone" configuration, best results will be obtained with all of them connected in parallel. Series arrangements can be used, but usually with some sacrifice in sound quality.

Your MASTER SERIES speaker selector can be placed anywhere there is space for it. No special precautions are necessary because no significant amount of heat is generated in normal operation.

The rotary IMPEDANCE MATCH switch (accessible from the chassis bottom) is used to make connection to the appropriate impedance matching tap on the transformers. The markings around the hole show the attenuation of level for each position. As the attenuation is increased (CCW rotation of the shaft), the number of speakers that can be operated simultaneously also increases. Matching impedance for each switch setting are shown below (for a 4 Ohm load to appear on the amplifier output). The first number indicates the level drop in decibels, as marked on the switch access opening, followed by the number of speakers that can be operated at that setting.

0 dB Straight through, 1-4 or 2-8 Ohm speakers.
-3 dB Load X2, 2-4 or 4-8 Ohm speakers.
-6 dB Load X4, 4-4 or 8-8 Ohm speakers.
-8 dB Load X6, 6-4 or 12-8 Ohm speakers.
-10 dB Load X9, 9-4 or 18-8 Ohm speakers.
-11 dB Load X12, 12-4 or 24-8 Ohm speakers.

WIRING DIAGRAM



OPTIONAL IMPEDANCE INDICATING SYSTEM

When purchased, this system is built in and self powered. It is a handy aid in choosing the best settings of the impedance matching rotary switch. A red and green light indicator on the front panel shows a constant indication of operating status. The amplifier is 4 Ohms or higher when the green lamp is lit, below 4 Ohms if the red is on. If red, simply rotate the matching switch CCW until the indication turns green, and you are operating within safe parameters.

This indicator system is useful for maintaining maximum power transfer to the speakers in actual use. If this is desired, rotate the matching control clockwise until the red lamp comes on, then back off one position at a time until the green lamp lights. You will then be matched as closely as safely possible to 4 Ohms at the amplifier output, which is the maximum power transfer for the speakers in operation.

Note that this system derives its power from the left channel only, although impedance is measured on both channels. Also note that the red-green light indicating system is self-powered and may flicker somewhat, especially if the driving amplifier is operating at very low power. Approximately 1 Watt minimum is required to light up the system. When closely matched, the green indication may occasionally change to brief red flashes. This is due to the non-linear impedance characteristics of most speakers and need not be cause for concern. If the duration of red is longer than the green, the impedance selector switch should be backed off one position or more until the green indication predominates.

OPTIONAL SONIC STABILIZER

If purchased, this unit is also built-in. It is a high-pass filter that reduces very low frequency (subsonic) input into the impedance matching system, reducing amplifier over loading caused by very low frequency transients. This allows higher power operation in the main audio spectrum without amplifier shutdown, even when heavy bass is present.

An additional advantage is that ceiling and in-wall speakers are helped from being severely damaged by subsonic bass and transients that can otherwise invert the woofer cones of this class of speakers, which are almost never properly baffled for very low frequency operation.

WARRANTY

Your AUDIOPLEX TECHNOLOGY® MASTER SERIES speaker selector is covered by a 10 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.

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 unit must be returned expenses prepaid, with written authorization from the company.

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.

This warranty gives you specific legal rights. You may have other rights which vary from state to state.

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