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**MSA-10A
SPEAKER SELECTOR / MATCHING SYSTEM
HOOKUP & OPERATING INSTRUCTIONS**

Please fill out and mail the enclosed warranty registration card.

NOTE TO OWNERS OF TUBE AMPLIFIERS: VIRTUALLY ALL TUBE AMPLIFIERS MUST HAVE A LOAD CONNECTED AT ALL TIMES. IF THE AMPLIFIER TO BE CONNECTED TO THE MSA-10A IS A TUBE AMPLIFIER, BE SURE TO ALWAYS HAVE AT LEAST ONE PAIR OF SPEAKERS SWITCHED ON AT ALL TIMES. AN ALTERNATIVE IS TO PERMANENTLY CONNECT A 150 OHM, 5 WATT RESISTOR ACROSS THE TUBE AMPLIFIER'S OUTPUT IN PARALLEL WITH THE MSA-10A. SEE FIGURE #2 FOR THE HOOKUP DIAGRAM.

INTRODUCTION

The MSA-10A allows you to connect up to ten pairs of speakers to your stereo receiver or amplifier and play any or all pairs simultaneously. You don't have to worry about overloading your amplifier. The MSA-10A uses a special autoformer matching system that keeps your amplifier running safely -- even if you have all ten pairs of speakers playing at the same time. The autoformers maintain a nominal 8 ohm load on the amplifier, making it safe for use with most quality amplifiers. Each of the ten speaker pairs can have a nominal impedance of anywhere between 4 and 16 ohms. Isolated left and right channel ground returns make the MSA-10A compatible with all types of amplifiers including those with "isolated" or "floating" output grounds. The removable rear panel connector blocks accept speaker wire up to 14 gauge in size.

NOTE: The MSA-10A is designed for use with a receiver or amplifier having a maximum power output of 200 Watts per channel (RMS). Damage caused by the use of a higher power receiver or amplifier will void the warranty.

CONNECTIONS

NOTE: When connecting the MSA-10A to receivers or amplifiers with "A" and "B" speaker selection, connect the MSA-10A to speaker position "A". DO NOT connect anything to speaker position "B" to prevent the amplifier from driving an unusually low impedance load.

Refer to figure #1 on the reverse side for hookup diagram.

Use #20 through #14 gauge speaker wire for all connections.

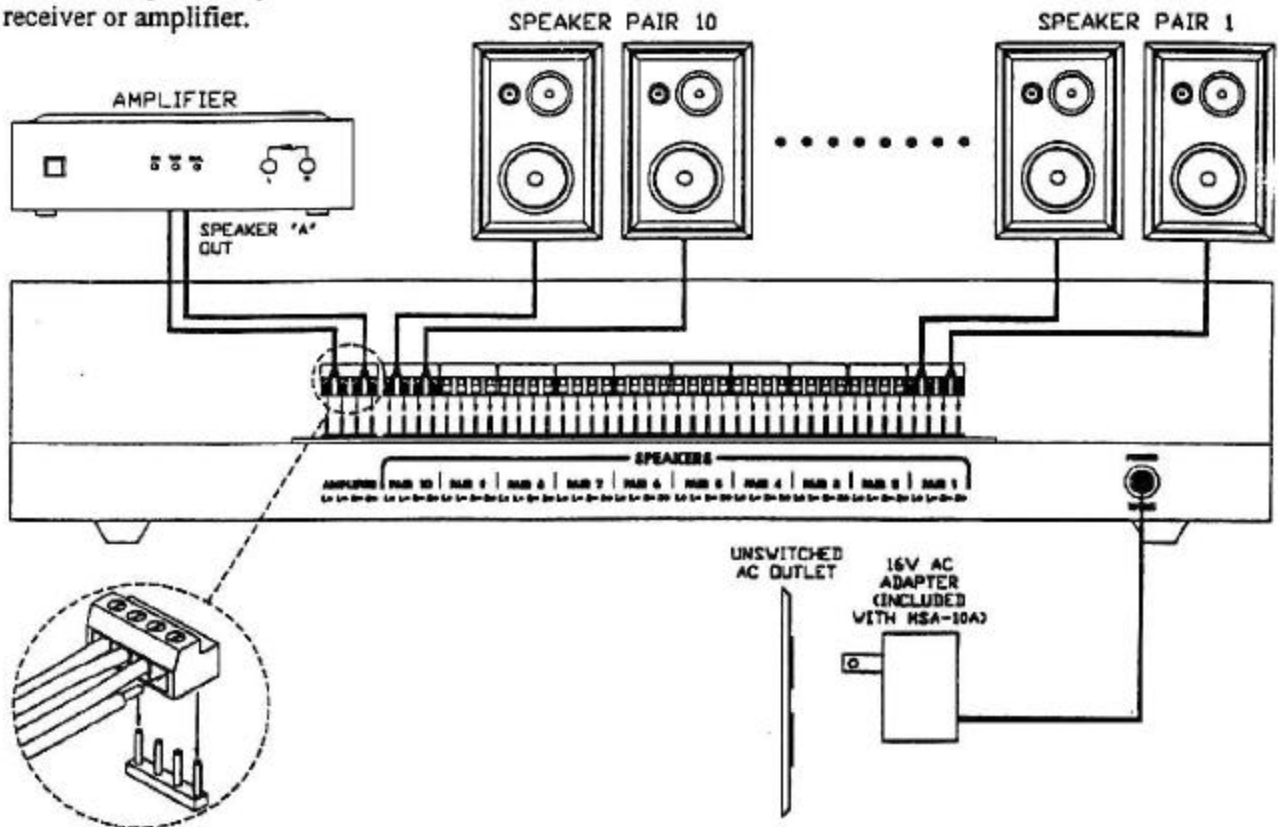
The insulation on each wire should be stripped 1/4" - no more - the ends twisted tightly together, then inserted into the appropriate hole on each rear panel terminal block. Secure each wire by tightening the small set screws on the top of the terminal blocks. Be certain that proper "phasing" is observed: connect the positive (+) terminals on the MSA-10A to the positive terminals on the amplifier and speakers and negative (-) terminals on the MSA-10A to the negative terminals on the amplifier and speakers.

OPERATION

Operation is straightforward. Simply depress the button(s) corresponding to the speaker pair(s) you wish to play. To turn a pair off, simply press the button again.

Figure 1

Example of using the MSA-10A to connect 10 pairs of speakers to a receiver or amplifier.



NOTE: When connecting the MSA-10A to receivers or amplifiers with "A" and "B" speaker selection, connect the MSA-10A to speaker position "A". DO NOT connect anything to speaker position "B" to prevent the amplifier from driving an unusually low impedance load.

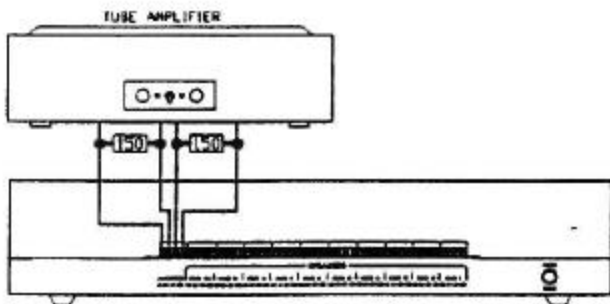


Figure 2

Example of using the MSA-10A with a tube-type amplifier.

SPECIFICATIONS

Audio Power Handling

200 Watts per channel (RMS)

350 Watts per channel (peak music power)

AC Power Requirements

120-volt to 16-volt AC transformer (supplied)

Overall Dimensions

17 3/8" Wide x 3 7/8" High x 7 5/8" Deep

Weight

15 lbs.

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11/12/92 REV. A