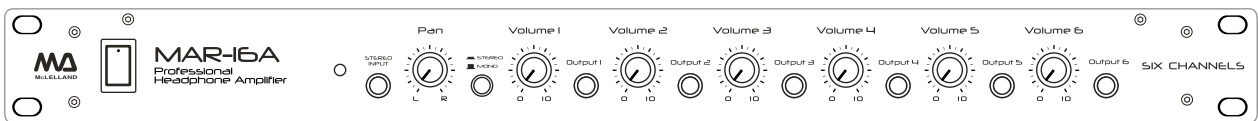




MAR-16A

Headphone Amplifier



OWNER'S MANUAL

INTRODUCTION

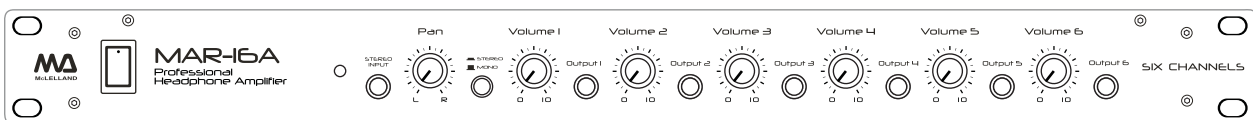
Thanks for your choice of the MAR-16A Stereo Headphone Amplifier. The MAR-16A is a six-channel headphone amplifier to provide high performance of audio monitoring with 6 outputs. Each output has independent level control as well as a master control for all 6 channels, and the unit performs a Mono/Stereo switch. This product can be used for sound reinforcement, choir, studio and other applications where high channel to size ratio is desirable. Since the Mono/Stereo switch is after the Pan control, it will mix two MONO signals and their balance can be adjusted with the Pan control. Up to six individual monitor mixes may be listened to via the rear panel TRS stereo insert jacks. It has 1/4" stereo headphone outputs, 1/4" TRS Insert jacks are located on the rear panel. There are two Auxiliary Inputs (Left and Right) located on the rear panel.

FEATURES

- 6 TRS Stereo Insert jacks for individual use of each channel
- 6 Headphone Outputs with Level Controls
- Up to 500 mW output per jack
- Stereo/Mono Switch allows mixing 2 mono signals
- Front and rear panel input jacks
- DC to 30K Hz response for accurate sound reproduction

DESCRIPTION

FRONT PANEL



Note: Descriptions for Channel 1 through Channel 6 are identical.

OUT 1-6: 1/4" TRS jack for connection to a standard pair of headphones.

Volume 1-6: Controls the amount of output signal from the indicated channel.

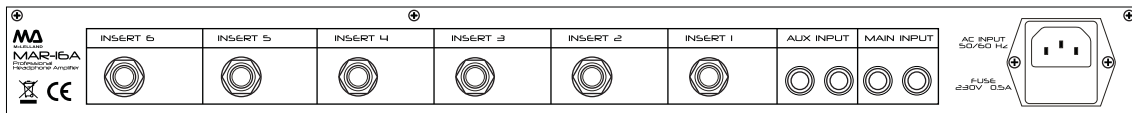
Mono/Stereo Switch: When this switch is pressed in, the Left and Right channels are summed together providing a mono output signal.

Pan: Controls the relative amount of signals to the Left and Right output channels.

Stereo In: 1/4" TRS input jack which parallels the rear panel Left and right input jacks.

POWER LED: Indicates that the MAR-16A is connected to the power supply and is on.

REAR PANEL



115/230 VAC Input: Connect to a properly grounded AC outlet.

Main Input: 1/4" TRS jacks for connection to the desired Left and Right program material.

AUX Inpu: Additional 1/4" unbalanced inputs for use in the event.

Note: The description for the channel Inserts pertains to all six channels.

CONNECTION

Connect the AC cord to a properly grounded AC outlet.

Determine which input configuration you will use: either discreet left/right, TRS stereo, or mono.

For a discreet left/right input configuration, connect a 1/4" TS plug containing the right portion of the stereo signal to right main input. Connect a 1/4" TS plug containing the left portion of the stereo signal to the left main input.

For a TRS stereo input configuration, connect a TRS stereo plug into the

front panel STEREO IN input. This cable may come from a mixer's headphone output for example.

To send a mono signal to MAR-16A, connect a 1/4" TS plug into either the left or right input and press in the front panel Mono/Stereo switch. This mono signal will be fed to both the left and right sides of the headphone outputs.

The AUX inputs are connected in the same manner as the discreet left/right input configuration listed above.

INSERT

The inserts have been provided so you can directly access each headphone output with its own program material.

The inserts require TRS connectors, with left and right signals on the Tip and Ring respectively. If you use a TS mono plug you will only hear sound out of one side.

When these insert jacks are used, the main Right/Stereo and Left/Mono, as well as the Aux inputs are disconnected. Only the stereo signals sent to the Insert jacks go to that corresponding output.

SPECIFICATION

| | |
|------------------------------|-------------------------------------|
| Input Impedance: | 100K Ohms unbalanced |
| Insert Impedance: | 100K Ohms |
| Max Input Level: | +18 dBV |
| Input Connectors: | Stereo 1/4" phone front, L & R 1/4" |
| Outputs: | 6 1/4" stereo on front |
| Max Gain: | 20 dB/channel |
| Maximum Output Power: | ≤ 800 mW per channel |
| Output Impedance: | 32 - 600 Ohms |
| Mono/Stereo switch: | Mixes L & R channels |
| S/N Ratio: | > 90 dB |
| THD: | < 0.08% |
| IMD(SMPTE): | < 0.08% |
| Power: | 115/230 VAC, 50/60 Hz, 15 VA |
| Size: | 19" L x 6" W x 1.75" H |
| Weight: | 2.2 kg |