

| CIO7BK00003 MYXA Monitor Power Inpot 127 AC CALIERS 1001 Jeck McKey Bird, Emit, Tr 72113 1001 Jeck McKey Bird, Emit, Tr 72113 | | | | | | Notice: For Channel DIP SW settings refer to top cover |
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Potential Audio Crosstalk Issues

Please note, crosstalk can occur between adjacent channels when monitoring amplifier outputs that are using non-grounded amplifier designs.

Today, many manufactures use circuit designs where the (-) speaker terminal of the amplifier is not referenced to a chassis / circuit ground. This is known as a "Floating Output or Bridged Output". When connected to the MVXA-2016, these types of amplifiers can induce a high amount of audio signal into the Ground of the MVXA-2016, causing high levels of crosstalk in the monitoring circuits.

If you are unsure as to whether your amplifier is using this topology, you can check the amp by using a DVM. First, make sure the amplifier is unplugged from the AC power source. Using the low ohms scale, measure between the amplifier chassis ground (we suggest the ground pin of the AC Power cord for a good ground point) and the speaker output (-) terminal.

- A. If it is floating type, then the DVM will read open or a very high resistance above 1K Ω .
- B. For a ground reference amplifier, the measurement between the chassis ground and the (-) terminal will be less than 100 Ω or a dead short.

Wiring practices for an amplifier to MVXA-2016 are listed below. If you are unsure or do not have a DVM to test the amplifier, we suggest wiring using the "Floating Output" method.

Wiring the MVXA-2016 to a Ground Reference Amplifier

- 1. Connect the (+) Input terminal on the back of the MVXA-2016 to the (+) Output on your amplifier.
- 2. Connect the (-) Input terminal on the back of the MVXA-2016 to the amplifier (-) Output on your amp.

Note: Ensure wire polarity is correct or high levels of channel crosstalk will occur.

Wiring the MVXA-2016 to a Floating Amplifier output

- 1. Connect the (+) Input terminal on the back of the MVXA-2016 to the (+) Output on your amplifier.
- 2. Connect the (-) Input terminal on the back of the MVXA-2016 to chassis ground on your amplifier. Do not connect this to the amplifier (-) Output on your amp.
- 3. In this configuration the MVXA-2016 "sees" only half of the amplifier's output voltage and approximately 6dB of meter reader level loss will need to be added for that channel. Use the trim pot on the top of the MVXA-2016 for calibration.

CP400

CP700

E6 with EM250-4

Note: By wiring the MVXA-2016 in this manor it will not effect the amplifier output to the main system speakers.

Atlas Sound Amplifiers with Floating Output Design

- MA40G/MA60G
- PA40G/PA60G
- PA1001G
- PA702
- F6 with FM250-70
- TSD-PA122G
- TSD-PA252G



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Atlas Sound Amplifiers with Ground Reference Design

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