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- Mackie MDB-2P Passive Stereo Direct Box Instruction Manual

#### Mackie MDB-2P

# Mackie MDB-2P Passive Stereo Direct Box Instruction Manual

Model: MDB-2P | Brand: Mackie

## 1. Introduction

The Mackie MDB-2P is a high-quality passive stereo direct box designed to convert unbalanced, high-impedance signals from instruments like keyboards and synthesizers into balanced, low-impedance signals suitable for professional audio mixers and recording equipment. This ensures a clean, noise-free signal over long cable runs, making it an essential tool for electronic musicians, live sound engineers, and recording studios.

## 2. KEY FEATURES

- **High-impedance 1/4" Inputs with Thru Outputs:** Connect your instruments directly and send a parallel signal to an amplifier or monitor.
- Balanced XLR Outputs with Ground Lift: Provides a clean, balanced signal for long cable runs to a mixer, with a ground lift switch to eliminate hum and buzz.
- Ultra-low Noise and Distortion: Ensures pristine audio quality without unwanted artifacts.
- -15dB Pads: Attenuates hot signals from high-output sources, preventing distortion.
- Built-like-a-Tank Construction: Durable design to withstand the rigors of live performance and studio use.

# 3. PRODUCT OVERVIEW

Familiarize yourself with the inputs, outputs, and controls of your Mackie MDB-2P.



**Figure 1:** Angled view of the Mackie MDB-2P, highlighting its compact and robust design.



Figure 2: Detailed view of the front panel with 1/4" Input and Thru jacks for Left and Right channels, along with -15dB Pad switches.



Figure 3: Detailed view of the rear panel featuring Left and Right XLR Output connectors and the Ground Lift switch.

#### **Front Panel**

- INPUT (1/4" TS): Connect your instrument (e.g., keyboard, synthesizer) here.
- THRU (1/4" TS): Provides a direct, unprocessed signal from the INPUT to send to an amplifier or stage monitor.
- PAD (-15dB): Engages a -15dB attenuation pad for high-output sources to prevent input clipping and distortion.

## **Rear Panel**

- OUTPUT (XLR Male): Balanced, low-impedance output to connect to a mixer's microphone input.
- **GROUND LIFT:** Disconnects the ground connection between the input and output to eliminate hum and buzz caused by ground loops.

# 4. SETUP

Follow these steps to set up your Mackie MDB-2P:

- 1. **Connect Your Instrument:** Plug your instrument's 1/4" output cable into the corresponding**INPUT** jack (Left or Right) on the MDB-2P.
- 2. Connect to an Amplifier/Monitor (Optional): If you need to hear your instrument on stage, connect a 1/4" cable from the THRU jack to your instrument amplifier or stage monitor.
- 3. **Connect to a Mixer:** Use standard XLR cables to connect the **OUTPUT** (Left and Right) jacks of the MDB-2P to the microphone inputs on your audio mixer.
- 4. **Engage Pad (If Necessary):** If your instrument has a very high output level and you notice distortion or clipping at the mixer, engage the **-15dB PAD** switch for the affected channel(s).
- 5. **Use Ground Lift (If Necessary):** If you hear a persistent hum or buzz in your audio signal, try engaging the **GROUND LIFT** switch. This can help break ground loops that cause unwanted noise.

The MDB-2P is a passive device and does not require external power.

#### Your browser does not support the video tag

Video: This video demonstrates the connection process for a stereo direct box with high-impedance inputs, similar to the Mackie MDB-2P. It illustrates how to connect instruments and route signals to a mixer and amplifier.

#### 5. OPERATING

Once connected, the MDB-2P operates transparently, converting your instrument's signal without coloring its tone. The primary operational considerations are the use of the Pad and Ground Lift switches.

- **Signal Flow:** Your instrument's signal enters the 1/4" INPUT, is converted to a balanced low-impedance signal, and exits via the XLR OUTPUT. A copy of the input signal is also available at the 1/4" THRU output.
- Pad Usage: Always engage the -15dB pad if your instrument's output is particularly strong (e.g., some active pickups, high-output keyboards) to prevent overloading the DI box or the mixer's input. This ensures a clean signal without unwanted clipping.
- **Ground Lift:** If you encounter a low-frequency hum or buzz, especially when connecting multiple pieces of equipment that share different power sources, toggle the Ground Lift switch. This can often resolve ground loop issues.

#### Your browser does not support the video tag

**Video:** This short preview video demonstrates the basic functionality and connections of a single-channel passive direct box, illustrating the simplicity of operation.

## 6. MAINTENANCE

The Mackie MDB-2P is designed for durability and requires minimal maintenance.

- Cleaning: Use a soft, dry cloth to clean the exterior of the unit. Avoid using harsh chemicals or abrasive cleaners.
- Storage: Store the unit in a cool, dry place away from extreme temperatures and moisture when not in use.
- Inspection: Periodically check all cables and connectors for signs of wear or damage.

## 7. TROUBLESHOOTING

If you encounter issues with your MDB-2P, try the following:

#### · No Sound:

- · Ensure all cables are securely connected.
- · Check the input levels on your mixer.
- Verify that the -15dB PAD is not engaged if your instrument has a low output.
- Test with different cables and instruments to isolate the problem.

## • Hum or Buzz:

- Engage the GROUND LIFT switch.
- Ensure all equipment is plugged into properly grounded outlets.
- Try plugging all audio equipment into the same power strip or circuit.

#### · Distorted Sound:

- Engage the -15dB PAD switch if your instrument has a high output.
- Reduce the output level of your instrument.
- Check the input gain settings on your mixer.

# 8. SPECIFICATIONS

Value	
MDB-2P	
14.4 ounces	
3.4 x 5.8 x 1.5 inches	
Black	
Stereo	
Passive	
January 27, 2018	

# 9. WARRANTY & SUPPORT

Mackie products are built to last, and the MDB-2P is no exception. For detailed warranty information and technical support, please visit the official Mackie website or contact their customer service. Keep your proof of purchase for any warranty claims.

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#### **Related Documents - MDB-2P**



#### Mackie MDB-USB Stereo Direct Box Owner's Manual

Comprehensive owner's manual for the Mackie MDB-USB Stereo Direct Box, covering features, setup, safety instructions, troubleshooting, technical specifications, and warranty information.

