MOOER Pedalboard

MOOER L6 MKII Guitar Multi Effects Pedalboard Instruction Manual

Model: Pedalboard | Brand: MOOER

1. Introduction

The MOOER L6 MKII is a programmable loop switcher designed to enhance and control complex pedal and multi-effects setups for guitar and bass. This manual provides detailed instructions for setting up, operating, and maintaining your L6 MKII to ensure optimal performance.

Key features include:

- Six independent effects loops for comprehensive pedal management.
- Two operational modes: PLAY mode for recalling saved presets and LIVE mode for direct loop control.
- Selectable pre-position (BUF-F) and post-position (BUF-B) buffers to minimize signal attenuation and tone loss.
- Integrated tuner with dedicated MUTE footswitch.
- Clear LED display and footswitch indicators for easy visibility.



Figure 1.1: Top and rear view of the MOOER L6 MKII Pedal Controller, showing all inputs, outputs, and controls.

2. Setup and Connections

Proper connection of the L6 MKII is crucial for its functionality. Follow these steps to integrate the unit into your existing pedalboard and amplifier setup.

2.1 Power Supply

Connect a standard 9V DC power supply (center negative) to the DC IN jack on the rear of the L6 MKII. Ensure the power supply meets the required specifications to prevent damage to the unit.

2.2 Audio Connections

1. **Input:** Connect your guitar or instrument to the INPUT jack on the right side of the L6 MKII.
2. **Output:** Connect the OUTPUT jack on the left side of the L6 MKII to your amplifier's input or the next device in your signal chain.
3. **Effects Loops (LOOP 1-6):** Each loop consists of a SEND and a RETURN jack.
    - Connect the SEND jack of a loop to the input of your effect pedal.
    - Connect the output of the effect pedal to the RETURN jack of the same loop.

    This allows the L6 MKII to bypass or engage the connected pedal within the signal path.
4. **Tuner Out:** Connect an external tuner to the TUNER OUT jack. This output is active when the MUTE footswitch is engaged, allowing silent tuning.



Figure 2.1: Connection diagram illustrating the L6 MKII integrated into a guitar and amplifier setup with multiple effects pedals.



Figure 2.2: The L6 MKII connected to various effects pedals on a pedalboard, demonstrating its ability to manage multiple effects.

3. Operation

The L6 MKII offers two primary operational modes: PLAY mode for recalling presets and LIVE mode for direct control of individual loops.

3.1 Operational Modes

- **PLAY Mode:** In PLAY mode, the footswitches (1-6) are used to recall up to 36 saved presets. Each preset stores the on/off status of the six effects loops. This mode is ideal for quickly switching between complex effect combinations during a performance.
- **LIVE Mode:** In LIVE mode, each footswitch (1-6) directly toggles the corresponding effects loop on or off. This functions like a traditional pedalboard, allowing immediate engagement or disengagement of individual pedals.

To switch between PLAY and LIVE modes, refer to the specific instructions in the full user manual (not provided here, but typically involves holding down a combination of footswitches or a dedicated button).



Figure 3.1: Visual representation of PLAY and LIVE modes, and the concept of banks and presets on the L6 MKII.

3.2 Buffer Options (BUF-F / BUF-B)

The L6 MKII features two buffer options to maintain signal integrity:

- **BUF-F (Pre-position Buffer):** Activates a buffer before the effects loops. This is useful for minimizing tone loss caused by long cable runs from your instrument to the pedalboard.
- **BUF-B (Post-position Buffer):** Activates a buffer after the effects loops. This can help maintain signal strength when running long cables from the pedalboard to the amplifier.

Activating these buffers can significantly reduce signal attenuation and preserve the clarity of your guitar tone, especially when using multiple true-bypass pedals or long cable lengths.



Figure 3.2: The L6 MKII highlighting the BUF-F and BUF-B options, with a description of their function in preserving signal quality.

3.3 MUTE Footswitch and Tuner

The dedicated MUTE footswitch allows for silent tuning. When pressed, the audio output of the L6 MKII is muted, and the built-in tuner is activated. The large LED display panels allow for easy reading of tuning information from a distance.



Figure 3.3: A user's foot engaging a footswitch on the L6 MKII, demonstrating typical interaction with the unit's controls and visible display.

4. Maintenance

To ensure the longevity and optimal performance of your MOOER L6 MKII, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Avoid using abrasive cleaners, solvents, or waxes, as these can damage the finish and internal components.
- **Storage:** When not in use for extended periods, store the L6 MKII in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Connections:** Periodically check all cable connections for tightness and wear. Loose or damaged cables can lead to signal loss or intermittent issues.
- **Power:** Always use the specified 9V DC (center negative) power supply. Incorrect voltage or polarity can cause irreversible damage.

5. Troubleshooting

If you encounter issues with your MOOER L6 MKII, consider the following common troubleshooting steps:

Problem	Possible Cause / Solution
No sound output	Ensure power supply is connected and functional. Check all audio cables (input, output, loop sends/returns) for proper connection and integrity. Verify that the MUTE footswitch is not engaged. Confirm that the connected amplifier and instrument are working correctly.
Humming or unwanted noise	Check for ground loops; try using an isolated power supply for your pedals. Ensure all cables are shielded and in good condition. Test with and without the BUF-F/BUF-B buffers engaged to see if it affects the noise. Isolate the noisy pedal by bypassing loops one by one.
Pedal in loop not engaging/disengaging	Verify the pedal itself is powered and functional. Check the SEND and RETURN connections for that specific loop. Ensure you are in the correct operational mode (PLAY or LIVE) for your intended action.
Display not working or erratic behavior	Power cycle the unit (unplug and replug power). Ensure stable power supply. If issues persist, contact MOOER support.

6. Specifications

The following are the technical specifications for the MOOER L6 MKII Pedal Controller:

Feature	Detail
Item Weight	2.62 pounds (1.19 Kilograms)
Product Dimensions	14.57 x 3.82 x 2.13 inches
Power Source	Corded Electric (9 Volts DC)
Hardware Interface	1/4-inch Audio
Signal Format	Digital
Color	White
Style	Loop Switcher
First Available Date	April 13, 2021

7. Warranty and Support

For warranty information and technical support, please refer to the official MOOER website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

Official MOOER Store: MOOER Amazon Store

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