MOOER TDL4

MOOER Ocean Machine II User Manual

Model: TDL4 | Brand: MOOER

Introduction

The MOOER Ocean Machine II is a professional-grade multi-effects pedal designed for guitar, bass, keyboards, and other instruments. It integrates advanced dual delay, reverb, and looper functionalities into a single unit. This device features optimized ambient algorithms, nine distinct delay types, nine hi-fidelity reverb types, and an augmented 120-second looper. With stereo inputs and outputs, MIDI control, expression pedal input, and wireless footswitch compatibility, the Ocean Machine II offers a versatile and adaptable audio processing solution. Its programmable effect chain and adjustable global EQ settings allow for extensive sound customization.

Key Features

- **Dual Delay Engines:** Features 9 distinct delay types, each supporting up to 2 seconds of delay time. Includes Digital, Analog, Tape, Echo, Liquid, Rainbow, Crystal, Low-Bit, and Fuzzy delays.
- **High-Fidelity Reverb:** Offers 9 reverb types: Room, Hall, Plate, Distorted Reverb, Flanger Reverb, Filter Reverb, Reverse, Spring, and Modulated Reverb.
- **Augmented Looper:** Supports up to 120 seconds of recording time with overdubbing capabilities, half-speed, and reverse effects.
- **Preset Storage:** Provides 8 storage banks, each with 3 presets, totaling 24 programmable storage spaces.
- **Flexible Bypass Options:** Supports both true bypass and DSP bypass for signal integrity.
- **Freeze Feedback:** A dedicated feature for both delay and reverb effects.
- **External Control:** Supports external expression pedal via TRS cable and upgraded MIDI control with clock sync.
- **Tap Tempo:** Functionality with independent and relative tempo options.
- **Stereo I/O:** Stereo input and output for versatile connectivity.

Controls and Interface

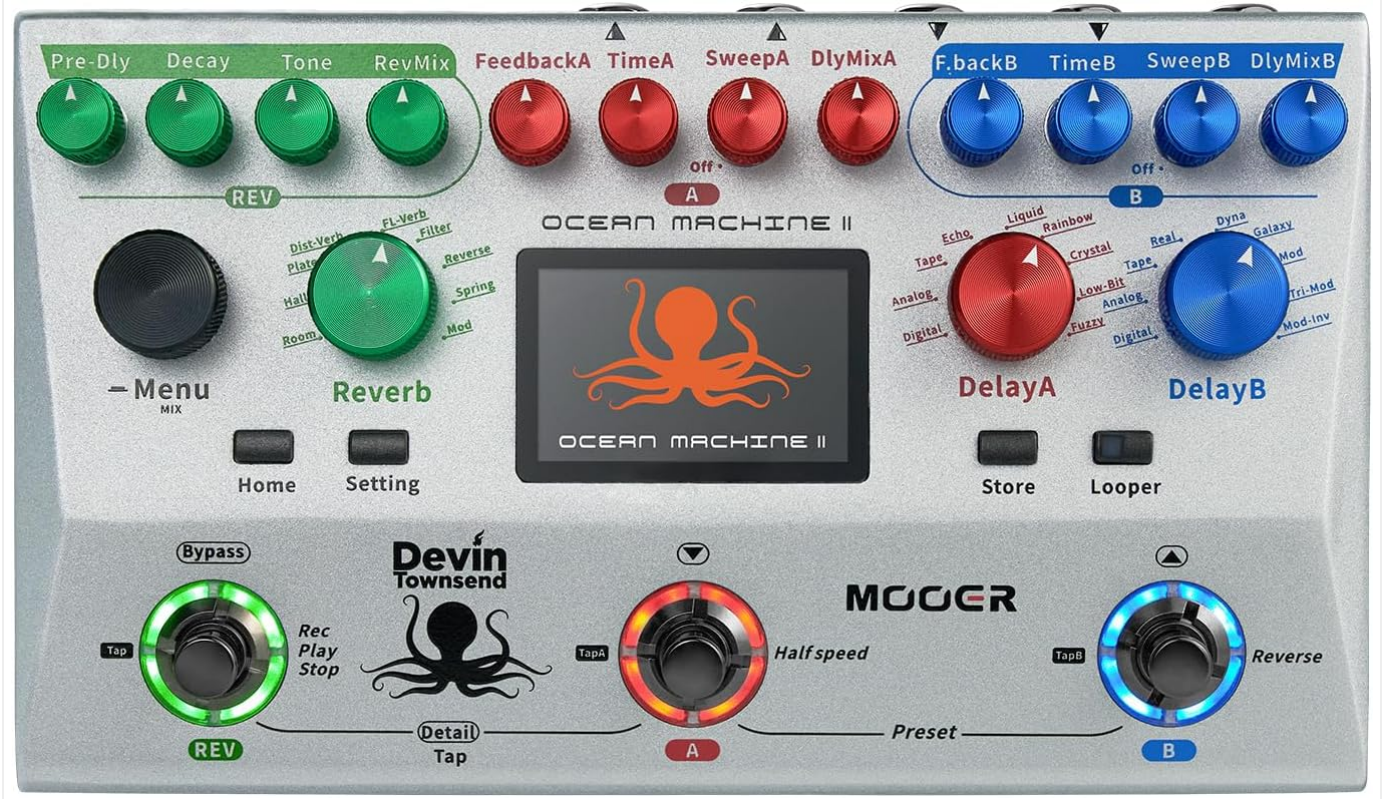


Figure 1: Top panel view of the MOOER Ocean Machine II, illustrating the layout of controls and the central display.

Reverb Section (Green Knobs)

- **Pre-Dly:** Adjusts the pre-delay time before the reverb effect begins.
- **Decay:** Controls the length of the reverb tail.
- **Tone:** Adjusts the tonal character of the reverb.
- **RevMix:** Sets the wet/dry mix level for the reverb effect.
- **Menu/Mix Knob:** Multi-function knob for navigating menus and adjusting mix levels.
- **Reverb Type Selector:** Rotary switch to select one of the 9 reverb algorithms.

Delay A Section (Red Knobs)

- **Feedback A:** Controls the number of repeats for Delay A.
- **Time A:** Adjusts the delay time for Delay A.
- **Sweep A:** Controls a modulation parameter specific to Delay A.
- **DlyMix A:** Sets the wet/dry mix level for Delay A.
- **Delay A Type Selector:** Rotary switch to select one of the 9 delay algorithms for Delay A.

Delay B Section (Blue Knobs)

- **Feedback B:** Controls the number of repeats for Delay B.
- **Time B:** Adjusts the delay time for Delay B.
- **Sweep B:** Controls a modulation parameter specific to Delay B.
- **DlyMix B:** Sets the wet/dry mix level for Delay B.
- **Delay B Type Selector:** Rotary switch to select one of the 9 delay algorithms for Delay B.

Footswitches and Buttons

- **Bypass (REV) Footswitch:** Engages/disengages the reverb effect. Also used for Tap Tempo.
- **Tap A (Half-speed) Footswitch:** Engages/disengages Delay A. Also used for Tap Tempo and Looper half-speed function.

- **Tap B (Reverse) Footswitch:** Engages/disengages Delay B. Also used for Tap Tempo and Looper reverse function.
- **Store Button:** Saves current settings as a preset.
- **Looper Button:** Activates the looper function.
- **Home Button:** Returns to the main display.
- **Setting Button:** Accesses system settings and global parameters.
- **Display Screen:** Shows current preset, effect types, parameters, and menu navigation.

Connections



Figure 2: Rear panel connections of the MOOER Ocean Machine II.

- **EXP (Expression Pedal Input):** Connect an external expression pedal via a TRS cable for real-time parameter control.
- **LEFT/MONO INPUT:** Main audio input. Use this for mono signals.
- **RIGHT INPUT:** Secondary audio input for stereo signals.
- **LEFT/MONO OUTPUT:** Main audio output. Use this for mono signals.
- **RIGHT OUTPUT:** Secondary audio output for stereo signals.
- **MIDI THRU:** Passes MIDI data received at MIDI IN to other MIDI devices.
- **MIDI IN:** Connect to a MIDI controller for external control of the pedal's parameters and functions.
- **USB:** USB-C port for firmware updates and potential future functionalities.
- **DC IN (9V 500mA):** Power input for the pedal. Use only the specified 9V DC power adapter with a minimum of 500mA.

Initial Setup

1. **Power Connection:** Connect the provided 9V DC power adapter to the DC IN jack on the rear of the pedal. Ensure the power source meets the specified requirements (9V DC, 500mA minimum).
2. **Instrument Connection:** Connect your instrument (guitar, bass, keyboard, etc.) to the LEFT/MONO INPUT. For stereo operation, connect a second instrument or stereo output to the RIGHT INPUT.

3. **Audio Output:** Connect the LEFT/MONO OUTPUT to your amplifier, mixer, or audio interface. For stereo output, connect the RIGHT OUTPUT as well.
4. **External Control (Optional):** If using an expression pedal, connect it to the EXP jack. If using MIDI control, connect your MIDI controller to the MIDI IN jack.
5. **Power On:** Once all connections are secure, power on the pedal. The display screen will illuminate.

Operating Instructions

Delay Effects (Delay A & Delay B)



Figure 3: Visual representation of Delay A functionality.



Figure 4: Visual representation of Delay B functionality.

The Ocean Machine II features two independent delay engines, Delay A and Delay B, each with 9 distinct types. Use the dedicated rotary switches to select the desired delay type. Adjust the Feedback, Time, Sweep, and Mix knobs for each delay engine to sculpt your sound. The Time knobs control the delay duration, while Feedback determines the number of repeats. The Sweep knob introduces modulation or other specific parameters depending on the selected delay type. The Mix knob blends the wet (effected) signal with the dry (original) signal.

Reverb Effects



Figure 5: Visual representation of Reverb functionality.

The reverb section offers 9 high-fidelity reverb types. Select your desired reverb type using the dedicated rotary switch. The Pre-Dly knob controls the time before the reverb effect starts, allowing for clearer initial attack. Decay adjusts the length of the reverb tail, while Tone shapes the frequency content of the reverb. The RevMix knob controls the blend of the wet and dry signals for the reverb effect.

Looper Functionality



Figure 6: Visual representation of Looper functionality.

The integrated looper supports up to 120 seconds of recording time. Press the Looper button to enter looper mode. Use the footswitches to record, overdub, play, and stop loops. The Tap A footswitch can be used to engage half-speed playback, and the Tap B footswitch can activate reverse playback for creative looping possibilities.

Presets and Storage

The Ocean Machine II provides 8 storage banks, each containing 3 presets, for a total of 24 user-programmable preset slots. To save a preset, adjust your desired effect settings, then press the Store button. Follow the on-screen prompts to select a bank and slot for saving. To recall a preset, navigate through the banks and slots using the appropriate controls (refer to the display for guidance) and select the desired preset.

Tap Tempo

Tap Tempo functionality allows you to set the delay time by tapping one of the footswitches. The pedal supports independent and relative tempo options. Consult the on-screen menu for specific configurations of Tap Tempo behavior.

Bypass Options

The pedal offers flexible bypass options, including both true bypass and DSP bypass. True bypass ensures that your signal remains completely unaffected when the pedal is disengaged, while DSP bypass provides seamless transitions and spillover effects. The bypass mode can typically be configured in the system settings menu.

Expression Pedal Control

An external expression pedal can be connected to the EXP jack using a TRS cable. This allows for real-time control over various parameters, such as delay time, feedback, or mix levels, providing dynamic performance capabilities. Parameter assignments are typically configured within the pedal's settings menu.

MIDI Control

The Ocean Machine II features upgraded MIDI control capabilities, including MIDI clock sync. Connect a MIDI controller to the MIDI IN port to control parameters, recall presets, and synchronize the pedal's tempo with other MIDI-enabled devices in your setup.

Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the pedal's surface. Avoid using abrasive cleaners or solvents, which may damage the finish or internal components.
- **Storage:** Store the pedal in a cool, dry place away from direct sunlight and extreme temperatures. If transporting, use a padded case to protect it from physical damage.
- **Power Supply:** Always use the specified 9V DC power adapter. Using an incorrect power supply can damage the unit and void the warranty.

Troubleshooting

Problem	Possible Cause	Solution
No sound or weak signal	Incorrect cable connections, power issue, volume knobs set too low.	Check all audio cables and ensure they are securely connected. Verify the power adapter is correctly plugged in and providing sufficient power. Ensure the Mix/DlyMix/RevMix knobs are not set to minimum.
Unwanted noise or hum	Ground loop, faulty power supply, interference from other equipment.	Ensure you are using a high-quality, isolated power supply. Try moving the pedal away from other electronic devices. Check for faulty cables.
Pedal not responding to footswitches	Firmware issue, internal malfunction.	Try restarting the pedal. If the issue persists, check the MOOER website for firmware updates or contact customer support.
Cannot save or recall presets	Incorrect procedure, memory full.	Refer to the 'Presets and Storage' section for correct saving/recalling steps. Ensure you are selecting an available slot.

Specifications

Feature	Detail
Item Model Number	TDL4
Product Dimensions	4.99 x 2.2 x 8.5 inches (12.67 x 5.59 x 21.59 cm)
Item Weight	2.42 pounds (1.1 Kilograms)
Hardware Interface	3.5mm Audio
Signal Format	Analog
Voltage	9 Volts
Amperage	500 Milliamps
Delay Types	9 (Digital, Analog, Tape, Echo, Liquid, Rainbow, Crystal, Low-Bit, Fuzzy)
Reverb Types	9 (Room, Hall, Plate, Distorted, Flanger, Filter, Reverse, Spring, Modulated)
Looper Recording Time	Up to 120 seconds

Feature	Detail
Presets	24 (8 banks x 3 presets)

Warranty and Support

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

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question