MOOER GE300

MOOER GE300 Amp Modelling and Multi-Effects Guitar Synth Pedal User Manual

Model: GE300

1. Introduction

The MOOER GE300 is a flagship multi-effects processor designed for guitarists, offering a comprehensive suite of amp modeling, multi-effects, and guitar synthesizer capabilities. Equipped with dual-DSP processors, it delivers detailed sound characteristics for various effects and amp models. This unit serves as an all-in-one workstation suitable for live performances, studio recording, and home practice.
Key features include a wide array of amp models, speaker cabinet simulations, diverse effects, a powerful synth module, and a versatile looper. Its intuitive user interface, controls, and connectivity options ensure ease of use for musicians at all levels.

2. Key Features

- **Dual-DSP Processors:** Delivers detailed characteristics for delays, reverbs, modulations, and amp models.
- **Extensive Amp Models:** Features 108 high-quality digital amp models utilizing MOOER's non-linear amp modeling technology, replicating the tone, dynamics, and feel of real tube amplifiers.
- **Cabinet Simulations:** Includes 43 IR (Impulse Response) based factory speaker cabinet models.
- **Diverse Effects:** Offers 164 high-quality effects to shape your sound.
- **Preset Banks:** Provides 255 preset banks to store your favorite tone settings.
- **Synth Module:** Transforms your instrument into an electronic synthesizer without special pickups, expanding creative possibilities.
- **Looper Functionality:** A 30-minute capacity loop station with undo/redo, direct dubbing, reverse, and half-time effects. Looper sessions can be stored and backed up.
- **MIDI Connectivity:** MIDI IN/OUT/THRU with easy mapping for external control of other pedals and amplifiers.
- **Programmable Footswitches:** User-selectable LED colors and assignable functions allow for complete customization of the control scheme.
- **USB Audio Interface:** Allows for direct recording to a DAW.

3. Setup

This section outlines the basic steps to set up your MOOER GE300 for operation.

3.1 Unpacking and Inspection

Carefully remove the GE300 from its packaging. Inspect the unit for any signs of damage. Ensure all included accessories, such as the power adapter, are present.

3.2 Power Connection

Connect the provided DC 9V power adapter to the 'DC IN' port on the rear panel of the GE300. Plug the adapter into a suitable power outlet. Ensure the power switch is in the OFF position before connecting.

3.3 Audio Connections

The GE300 offers various input and output options for different setups:

- **Guitar Input:** Connect your guitar to the 'GUITAR IN (MONO)' jack.
- **Output to Amplifier/Mixer:**
  - For connecting to a guitar amplifier, use the 'OUTPUT (MONO)' or 'OUTPUT (L/R)' 1/4" jacks.
  - For direct connection to a PA system or audio interface, use the 'XLR OUT (L/R)' balanced outputs.
- **Headphones:** Connect headphones to the 'PHONES' jack for silent practice.
- **Auxiliary Input:** Use the 'AUX IN' jack to connect external audio sources like an MP3 player.
- **Effects Loop:** The 'SEND' and 'RETURN' jacks allow you to integrate external effects pedals into the GE300's signal chain.



Figure 3.1: Front view of the MOOER GE300, showcasing the main display, control knobs, and footswitches.



Figure 3.2: Rear panel connections, including Guitar In, Send/Return, Outputs, Phones, Aux In, MIDI, and USB.

3.4 USB and MIDI Connections

- **USB:** Connect the GE300 to your computer via the USB Type B port for firmware updates, software editing, and using the unit as an audio interface.
- **MIDI:** Use the MIDI IN/OUT/THRU ports to integrate the GE300 with other MIDI-compatible devices for advanced control.

4. Operating Instructions

This section provides an overview of the GE300's operational features.

4.1 Powering On and Initial Boot-up

After all connections are made, switch the power button to the ON position. The unit will boot up, displaying the MOOER logo before loading the main interface.

4.2 User Interface Navigation

The GE300 features a clear display, several control knobs, and footswitches for navigation and parameter adjustment.

- **Display:** The central screen shows patch information, effect blocks, and parameter values.
- **SELECT Knob:** Used to navigate menus and select options.
- **Control Knobs:** Dedicated knobs above the footswitches and below the display allow for quick adjustment of effect parameters.
- **Footswitches:** The GE300 has multiple footswitches for patch changes, effect toggling, looper control, and tuner activation. These are programmable and feature user-selectable LED colors.



Figure 4.1: Angled view highlighting the expression pedal and the layout of the footswitches.



Figure 4.2: Detailed view of the main display, showing active effects and patch settings.

4.3 Amp Modelling and Effects

The GE300 provides a vast library of amp models and effects. Navigate through the effect chain on the display to select and adjust individual blocks. Each block (e.g., AMP, CAB, MOD, DLY, REV) can be customized using the dedicated control knobs.

4.4 Guitar Synth Module

Activate the synth module to transform your guitar signal into various synthesizer sounds. Explore different oscillator types, filters, and envelopes to create unique textures. No special pickups are required for this feature.

4.5 Looper Functionality

Engage the looper footswitch to record, overdub, and playback guitar phrases. The 30-minute recording capacity allows for complex arrangements. Utilize undo/redo, reverse, and half-time functions for creative looping. Looper sessions can be saved and recalled.

4.6 Tone Capture

The Tone Capture feature allows you to sample and recreate the sound characteristics of your favorite amplifiers, cabinets, or even specific guitars. Follow the on-screen prompts to capture and store these tones for later use.

4.7 Saving and Recalling Presets

Once you have crafted a desired sound, save it to one of the 255 available preset banks. Use the footswitches to navigate and recall your saved presets during performance or practice.

5. Maintenance

Proper maintenance ensures the longevity and optimal performance of your MOOER GE300.

- **Cleaning:** Use a soft, dry cloth to clean the unit. Avoid abrasive cleaners, solvents, or waxes. Do not spray liquid directly onto the unit.
- **Storage:** Store the GE300 in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity.
- **Transportation:** When transporting, use a padded case to protect the unit from physical shock and damage.
- **Firmware Updates:** Regularly check the official MOOER website for firmware updates. Keeping your unit updated can improve performance and add new features.

6. Troubleshooting

This section addresses common issues you might encounter with your GE300.

Problem	Possible Cause	Solution
No sound output	Incorrect connections, volume levels too low, power issue, effect block bypassed.	Check all cable connections (input, output, power). Ensure master volume and individual patch volumes are not at zero. Verify that the correct output mode is selected. Check if any essential effect blocks are accidentally bypassed.
"DSP Error" message on display	Internal processing error, possibly due to a software glitch or hardware malfunction.	Try restarting the unit. If the error persists, perform a factory reset (refer to the full manual for instructions). If the issue continues, contact MOOER support.
Footswitch unresponsive	Physical damage, software glitch, incorrect assignment.	Check for any physical obstructions. Restart the unit. Verify the footswitch assignment in the system settings. If the problem persists, it may indicate a hardware issue requiring service.
Unit freezes or crashes	Software bug, power instability.	Disconnect and reconnect power. Ensure you are using the official power adapter. Check for and install the latest firmware updates.
Poor sound quality / Noise	Ground loop, faulty cables, high gain settings, incorrect input level.	Use high-quality shielded cables. Ensure proper grounding. Adjust input gain to avoid clipping. Reduce high-gain settings on amp models or distortion effects.

7. Specifications

Detailed technical specifications for the MOOER GE300.

Feature	Specification
Item Weight	1.34 Kilograms (2.95 pounds)
Product Dimensions	16.14"L x 2.44"W x 7.91"H (41 x 6.2 x 20.1 cm)
Model Number	GE300
Connector Type	USB Type B, 5 Pin Female MIDI
Hardware Interface	USB
Signal Format	Analog
Power Source	DC Power Supply
Voltage	9 Volts
First Available Date	June 13, 2019

8. Warranty and Support

For warranty information and technical support, please refer to the official MOOER website or contact your authorized dealer. Warranty terms may vary by region and retailer.
You can visit the official MOOER store for additional resources and product information: MOOER Store
Protection plans may be available for purchase separately to extend coverage beyond the standard manufacturer's warranty.

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