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MOOER GE250

MOOER GE250 Multi Effects Processor User Manual

Amp Modelling & Multi Effects

1. Introduction

The MOOER GE250 is a multi-effects processor designed for guitarists, offering a comprehensive suite of amp models, effects, and utility features. It integrates advanced non-linear amp modeling technology, impulse response (IR) based speaker cabinet simulations, and a wide array of digital effects. This manual provides detailed instructions for setting up, operating, and maintaining your GE250 unit.
Key features include 70 high-quality AMP models, TONE CAPTURE functionality, 32 IR-based speaker cab models with user slots, 11 effects blocks with over 180 effects, a programmable FX LOOP, MIDI capabilities, a drum machine, and a stereo looper. The GE250 also functions as a low-latency USB audio interface for recording.

2. Safety Information

- **Power Supply:** Use only the specified power adapter (DC 9V, 1A). Using an incorrect adapter may cause damage or malfunction.
- **Environment:** Do not expose the unit to rain, moisture, direct sunlight, or extreme temperatures. Avoid placing it near heat sources.
- **Handling:** Do not drop the unit or subject it to strong impacts. Avoid placing heavy objects on it.
- **Cleaning:** Clean only with a dry, soft cloth. Do not use liquid cleaners.
- **Servicing:** Do not attempt to service the unit yourself. Refer all servicing to qualified personnel.

3. Package Contents

Please check that all items are present in the package:

- MOOER GE250 Multi Effects Processor
- USB cable
- Power supply (DC 9V, 1A)
- Quick guide

4. Setup

4.1 Physical Connections

The GE250 offers a variety of input and output options for integration into different setups.

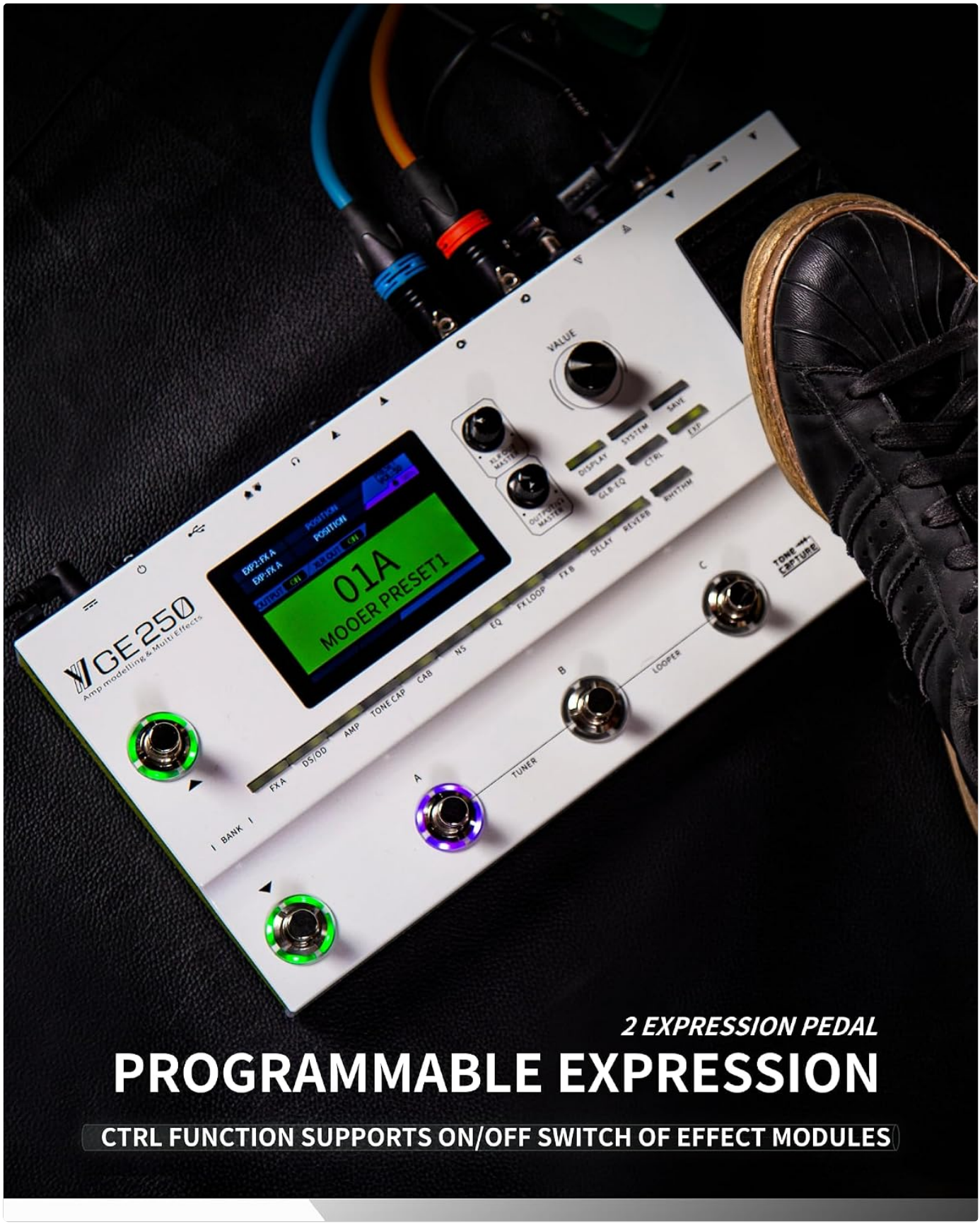


Figure 4.1: Rear panel connections of the MOOER GE250. This image displays the AUX IN, EXP 2, IN, FX LOOP (SEND/RETURN), XLR OUT (L/MONO, R), OUTPUT (L/MONO, R), Headphone Out, MIDI IN/OUT, USB, Power Switch, and DC 9V power input.

- **Guitar Input (IN):** Connect your guitar to the 1/4" mono input jack.
- **Output (L/MONO, R):** Connect these 1/4" unbalanced outputs to your amplifier, mixer, or audio interface. Use L/MONO for

a mono signal.

- **XLR Output (L/MONO, R):** Use these balanced XLR outputs for direct connection to a PA system or recording console. A ground lift switch is available to eliminate hum.
- **FX LOOP (SEND/RETURN):** Integrate external effects pedals into your signal chain. The FX Loop is programmable for flexible routing.
- **AUX IN:** Connect an external audio player (e.g., smartphone, MP3 player) to this 1/8" stereo input for practice.
- **Headphone Output:** Connect stereo headphones to the 1/8" output for silent practice.
- **MIDI IN/OUT:** Connect to other MIDI devices for control or synchronization. The GE250 supports automatic signal source matching.
- **USB:** Connect to a computer for editing software, firmware updates, and using the GE250 as a USB audio interface.
- **EXP 2:** Connect an optional external expression pedal for additional real-time control.
- **Power Input:** Connect the included DC 9V power adapter to this jack. Ensure the power switch is off before connecting.



Figure 4.2: The GE250 connected with various cables, illustrating its comprehensive input/output flexibility for studio recording or live performance setups.

4.2 Initial Power On

After making all necessary connections, ensure the power adapter is securely plugged into a power outlet and the GE250. Flip the power switch located on the rear panel to the 'ON' position. The display will illuminate, and the unit will boot up.

5. Operating the GE250

5.1 Overview of Controls



Figure 5.1: Front panel of the MOOER GE250, highlighting the main display, footswitches, and control layout.

The GE250 features a clear LCD display, three footswitches (A, B, C), an expression pedal, and several control knobs and buttons for navigation and parameter adjustment.

- **Display:** Shows current preset, effect chain, and parameter values.
- **Footswitches (A, B, C):** Used for switching presets, engaging/disengaging effects, tuner, and looper functions.
- **Expression Pedal:** Provides real-time control over various parameters like volume, wah, or other effects.
- **Value Knob:** Used to scroll through options and adjust parameter values.
- **Output Master Knob:** Controls the overall output volume.
- **Navigation Buttons (DISPLAY, SYSTEM, SAVE, GLB-EQ, CTRL, EXP):** Access different menus and functions.

5.2 Preset Management

The GE250 organizes sounds into presets, which can be grouped into banks. You can navigate through presets using the footswitches or the Value knob. To edit a preset, select it and then use the dedicated effect block buttons (FXA, DS/OD, AMP, etc.) to access and modify parameters. Press the SAVE button to store your changes.

5.3 Effect Blocks and Parameters

The GE250 features 11 distinct effect blocks, offering over 180 high-quality effects. These blocks cover a wide range of sounds, from classic stompboxes to studio-grade rack units.



Figure 5.2: The GE250's effect block buttons, allowing direct access to various effect categories such as FXA, DS/OD, AMP, TONE CAP, CAB, NS, EQ, FX LOOP, FXB, DELAY, REVERB, and RHYTHM.

Each button corresponds to an effect block. Pressing a button will display the parameters for that block on the screen, which can then be adjusted using the Value knob.

- **FXA/FXB:** Modulation, pitch, and other effects.
- **DS/OD:** Distortion and Overdrive effects.
- **AMP:** Amplifier models.

- **TONE CAP:** Tone Capture function.
- **CAB:** Speaker Cabinet simulations.
- **NS:** Noise Suppressor.
- **EQ:** Equalization.
- **FX LOOP:** External effects loop settings.
- **DELAY:** Delay effects.
- **REVERB:** Reverb effects.
- **RHYTHM:** Drum machine settings.

5.4 AMP Models and TONE CAPTURE

The GE250 includes 70 high-quality AMP models derived from MOOER's non-linear amp modeling technology. These models accurately replicate the characteristics of various amplifiers. You can also load additional amp models via the editing software. The TONE CAPTURE function allows you to sample and digitally recreate the sound of your physical amplifier. This feature enables the creation of new digital amp models based on your own gear.



Figure 5.3: The TONE CAPTURE function in use, allowing users to sample and capture the characteristics of their real-life amplifiers.

5.5 Speaker Cab Models (IRs)

The unit comes with 32 IR-based factory speaker cabinet models, designed to emulate the dynamics and feel of real tube amplifiers. Additionally, there are 10 user slots available for loading your preferred third-party IR files, supporting 2048 sample points.



Figure 5.4: Display showing Impulse Response (IR) settings, including format (.wav), sampling rate (44.1kHz), sampling accuracy (24bit), sampling points (2048pts), 32 CAB models, and 10 MIC models.

5.6 Programmable FX LOOP

The GE250 features a programmable FX LOOP, allowing you to integrate your favorite external effects pedals into the signal chain. This provides ultimate flexibility for various setups, including the 4-cable method with an amplifier.



Figure 5.5: The programmable FX LOOP in action, demonstrating easy integration of external effects for enhanced flexibility.

5.7 MIDI Functionality

The MIDI function allows the GE250 to automatically match the signal source. It supports both MIDI IN and MIDI OUT, configurable by the user, enabling integration with other MIDI-controlled devices for complex setups and control.

5.8 Drum Machine and Stereo Looper

The GE250 includes a built-in drum machine with various patterns for practice and songwriting. It also features a stereo looper, allowing you to record and layer guitar phrases for creative expression or practice.

5.9 USB Audio Interface and Editing Software

The GE250 can function as a direct, low-latency USB audio interface, making it suitable for studio recording. The included editing software provides a comprehensive platform for managing presets, effects, and other settings on your computer, streamlining the recording process.

Figure 5.6: The GE250 connected to a computer, showcasing the intuitive editing software for detailed parameter adjustments and preset management.

5.10 Global EQ

The Global EQ function allows for individual equalization settings for the main output, headphone output, and XLR balanced output. This ensures optimal sound quality regardless of your monitoring or output destination.



Figure 5.7: The Global EQ interface, allowing independent EQ adjustments for the main output, headphone output, and XLR balanced output.

6. Maintenance

6.1 Cleaning

To clean the GE250, use a soft, dry cloth. Do not use abrasive cleaners, solvents, or waxes, as these can damage the finish or internal components.

6.2 Firmware Updates

MOOER periodically releases firmware updates to improve performance, add new features, or fix bugs. It is recommended to connect your GE250 to a computer and check for updates using the official MOOER software. Follow the instructions provided with the update package carefully to avoid damaging the unit.

7. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No power	Power adapter not connected or faulty; power switch off.	Ensure power adapter is securely connected and functional. Check power switch position.
No sound output	Incorrect cable connections; output volume too low; effect block bypassed.	Verify all audio cables are correctly connected. Increase Output Master volume. Check if any essential effect blocks are bypassed.
Humming or noise	Ground loop; faulty cables; high gain settings.	Engage the XLR ground lift switch if using XLR outputs. Try different cables. Reduce gain settings or use the Noise Suppressor (NS) block.
USB connection issues	Incorrect USB cable; driver not installed; software not recognizing device.	Use the provided USB cable. Install the latest drivers from the MOOER website. Ensure the editing software is up-to-date.

8. Specifications

- **Item Weight:** 5.74 pounds
- **Product Dimensions:** 12.76 x 6.38 x 2.36 inches
- **Item Model Number:** GE250
- **Power Source:** Corded Electric
- **Voltage:** 9 Volts
- **Connector Type:** USB Type-B
- **Hardware Interface:** USB
- **Signal Format:** Analog
- **AMP Models:** 70 (with non-linear amp modeling technology)
- **Speaker Cab Models:** 32 IR-based factory models, 10 user slots (2048 sample points)
- **Effects:** Over 180 high-quality effects across 11 blocks
- **Looper:** Stereo Looper
- **Drum Machine:** Yes
- **FX Loop:** Programmable
- **MIDI:** MIDI IN/OUT with automatic signal source matching
- **USB Audio:** Direct, low-latency audio interface functionality

9. Warranty and Support

For warranty information, please refer to the documentation included with your purchase or visit the official MOOER website. For technical support, product inquiries, or service requests, please contact MOOER customer support through their official channels. You can also visit the MOOER Store on Amazon for additional product information and resources.

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