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Rowin LEF-3801

Rowin ROTO ENGINE LEF-3801 Rotary Speaker Simulator Guitar Effect Pedal User Manual

Model: LEF-3801 | Brand: Rowin

1. PRODUCT OVERVIEW

The Rowin ROTO ENGINE LEF-3801 is a mini digital guitar effects pedal designed to simulate rotary speaker effects, offering three distinct modulation modes: Phaser, Vibrato, and Chorus. This pedal features a full metal shell for durability and a true bypass switch to minimize tone loss when the effect is disengaged. Its compact size makes it suitable for various pedalboard setups.

The ROTO ENGINE pedal provides a versatile sound palette, from classic 60s vibrato to modern phaser and warm chorus effects, achieved through sophisticated algorithms.

Key Features:

- **Three Distinct Modes:** Phaser, Vibrato, and Chorus for a wide range of modulation effects.
- **Intuitive Control:** Dedicated knobs for Level, Intense, and Speed allow for precise tone shaping.
- **True Bypass:** Ensures signal integrity and minimizes tone loss when the pedal is off.
- **Durable Construction:** Full metal shell made of high-quality zinc alloy for robust performance.
- **Compact Design:** Mini size for easy integration into any pedalboard.
- **LED Indicator:** Clearly shows the working state and bypass status.

3 Unique Modes with ROTO ENGINE



Phaser



Chorus



Vibrato



Figure 1: The Rowin ROTO ENGINE pedal highlighting its three unique modes.

2. SETUP AND CONNECTIONS

Follow these steps to properly set up your Rowin ROTO ENGINE pedal:

1. **Power Supply:** Connect a standard 9V DC AC adapter (center minus plug) to the DC 9V input jack. The power adapter is not included with the pedal. Ensure the power supply meets the specified requirements (128 mA current draw).
2. **Input Connection:** Connect your guitar or other instrument to the 1/4" monaural input jack (impedance: 470k Ohms) on the right side of the pedal.
3. **Output Connection:** Connect the 1/4" monaural output jack (impedance: 100 Ohms) on the left side of the pedal to your amplifier or the next pedal in your signal chain.
4. **Placement:** Place the pedal on a stable surface or integrate it into your pedalboard.



Figure 2: Power requirements and compatible instruments for the ROTO ENGINE pedal.

3. OPERATION

The ROTO ENGINE pedal features a simple and intuitive control interface. The LED indicator will illuminate when the effect is active.

Controls:

- **Mode Switch:** A three-position toggle switch located at the top of the pedal. Use this switch to select between the three available modes: PHASER, VIBE (Vibrato), and CHORUS.
- **LEVEL Knob:** Adjusts the overall output level or intensity of the selected effect. Turn clockwise to increase the effect level, counter-clockwise to decrease.
- **INTENSE Knob:** Controls the depth or richness of the effect. Higher settings result in a more pronounced modulation.
- **SPEED Knob:** Adjusts the rate or speed of the modulation effect. Turn clockwise for faster modulation, counter-clockwise for slower modulation.

- **True Bypass Footswitch:** Engages or disengages the effect. When engaged, the LED indicator will light up. When disengaged, the signal passes through unaffected.



Figure 3: Detailed view of the ROTO ENGINE's intuitive control interface.

Mode Descriptions:

- **Phaser:** Provides a modern phaser effect, characterized by rich and deep swirling sounds.
- **Vibrato:** Delivers a vintage 60s vibrato sound, capable of achieving a wide range of pitch modulation effects.
- **Chorus:** Offers a high-quality standard chorus effect, producing warm and psychedelic tonal textures.

Rich Sound Performance

ROTO ENGINE's Phaser mode simulates a variety of classic speaker effects, bringing a layered sound texture to music and enhancing the immersion of live performances.



Figure 4: The ROTO ENGINE pedal delivers rich sound performance across its modes.

Official Product Video:

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Video 1: Demonstration of the Rowin ROTO ENGINE pedal's Phaser, Vibe, and Chorus modes. This video showcases the various sound effects produced by the pedal.

4. MAINTENANCE

To ensure the longevity and optimal performance of your ROTO ENGINE pedal, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the pedal's exterior. Avoid using abrasive cleaners or solvents, as they may damage the finish.
- **Storage:** Store the pedal in a cool, dry place away from direct sunlight and extreme temperatures. When not in use for extended periods, disconnect the power supply.
- **Connections:** Periodically check all input and output connections for secure fit. Loose connections can lead to

signal loss or noise.

- **Power:** Always use a compatible 9V DC center-negative power supply. Incorrect power can damage the unit and void the warranty.

5. TROUBLESHOOTING

If you encounter issues with your ROTO ENGINE pedal, refer to the following troubleshooting tips:

- **No Sound:**
 - Ensure all cables are securely connected to the input, output, and power jacks.
 - Verify the power supply is correctly connected and providing the specified 9V DC (center-negative) power.
 - Check if your guitar, amplifier, and other pedals in the chain are functioning correctly.
- **Weak or Distorted Sound:**
 - Check the LEVEL knob setting; it might be too low or too high.
 - Ensure the INTENSE knob is set appropriately for the desired effect depth.
 - Test with different cables to rule out faulty connections.
- **Effect Not Engaging/Disengaging:**
 - Press the True Bypass footswitch firmly. The LED indicator should change state.
 - If the LED does not light up, check the power supply.
- **Unwanted Noise/Hum:**
 - Ensure you are using a regulated 9V DC power supply specifically designed for guitar pedals.
 - Try isolating the pedal from other power sources or electronic devices that might cause interference.
 - Check for ground loops in your setup.

6. SPECIFICATIONS

Feature	Detail
Brand	Rowin
Model	LEF-3801
Effect Type	Rotary Speaker Simulator (Phaser, Vibrato, Chorus)
Material	Zinc Alloy (Full Metal Shell)
Input	1/4" Monaural Jack (Impedance: 470k Ohms)
Output	1/4" Monaural Jack (Impedance: 100 Ohms)
Power Requirements	9V DC AC Adapter (Center Minus Plug)
Current Draw	128 mA
Dimensions (L x W x H)	3.7 x 1.5 x 2 inches (approx.)
Item Weight	7.8 ounces (approx.)

Feature	Detail
Bypass	True Bypass

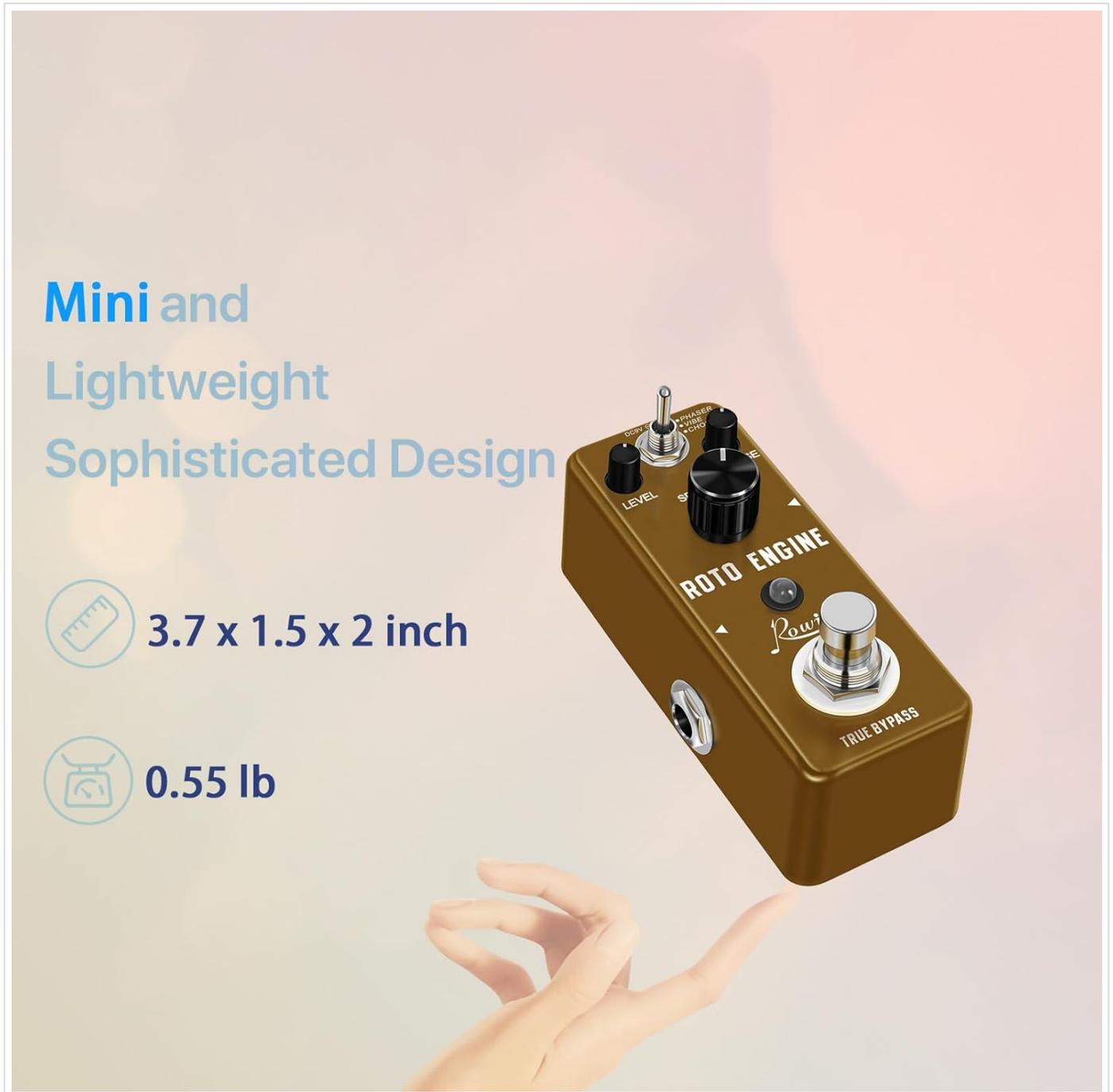


Figure 5: The compact and lightweight design of the ROTO ENGINE pedal.

7. WHAT'S IN THE BOX

The package for your Rowin ROTO ENGINE pedal includes:

- 1 x Rowin ROTO ENGINE Guitar Effect Pedal
- 1 x User Manual

Note: The power adapter is not included and must be purchased separately.

8. WARRANTY AND SUPPORT

Rowin products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please refer to the contact details provided on the official Rowin website or contact your authorized dealer. Please retain your proof of purchase for warranty claims.

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