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MONKEY LOOP ML-DT1

MONKEY LOOP ML-DT1 Distortion Pedal User Manual

Model: ML-DT1

INTRODUCTION

Thank you for choosing the MONKEY LOOP ML-DT1 Distortion Pedal. This pedal is designed to provide a wide range of distortion effects for electric guitars, allowing you to sculpt your sound with precision. Featuring intuitive controls for Tone, Gain, and Level, along with True Bypass circuitry, the ML-DT1 ensures signal integrity and versatile sound shaping. Please read this manual carefully to understand the pedal's features and ensure proper operation.

PRODUCT OVERVIEW

The MONKEY LOOP ML-DT1 is a compact and robust distortion pedal for electric guitars. It features three primary control knobs and a footswitch for engaging the effect.

Key Features:

- **Distortion Effect:** Delivers a powerful distortion sound for electric guitars.
- **Tone Control:** Adjusts the tonal characteristics of the distorted sound.
- **Gain Control:** Manages the amount of distortion applied to the signal.
- **Level Control:** Sets the overall output volume of the effect.
- **True Bypass:** Ensures that your guitar's signal remains unaffected when the pedal is disengaged.
- **Compact Design:** Small footprint for easy integration into any pedalboard.
- **Efficient Power Consumption:** Operates on a standard DC 9V power supply with low current draw.

Controls and Connections:

Familiarize yourself with the pedal's layout:

GAIN Knob: Controls the intensity of the distortion. Turn clockwise for more distortion.

TONE Knob: Adjusts the equalization of the distorted sound, from darker to brighter tones.

LEVEL Knob: Sets the output volume of the effect.

Footswitch: Toggles the effect on/off. The LED indicator illuminates when the effect is active.

IN Jack: 1/4-inch input for your guitar.

OUT Jack: 1/4-inch output to your amplifier or next pedal in the chain.

DC 9V Input: Power input for a standard 9V DC adapter (center negative).



Figure 1: Top view of the ML-DT1 pedal with controls labeled.

This image displays the top surface of the ML-DT1 Distortion Pedal. Visible are the three control knobs: GAIN, TONE, and LEVEL, which allow for precise adjustment of the distortion effect. The prominent footswitch is located at the front, used to activate or deactivate the pedal. The red LED indicator, when lit, signifies that the distortion effect is engaged. The "TRUE BYPASS" label is also visible, indicating the pedal's signal routing when off.



Figure 2: Angled view of the ML-DT1 pedal, highlighting input, output, and power connections.

This image provides an angled perspective of the ML-DT1 Distortion Pedal. It clearly shows the 1/4-inch input jack labeled "IN" on the right side, where the guitar signal enters. The 1/4-inch output jack labeled "OUT" is on the left side, connecting to an amplifier or subsequent effects. The DC 9V power input is visible on the rear, indicating where the power adapter should be connected. The control knobs and footswitch are also visible from this angle.

SETUP

Follow these steps to set up your ML-DT1 Distortion Pedal:

1. **Power Connection:** Connect a standard 9V DC power adapter (center negative, not included) to the DC 9V input jack on the pedal. Ensure the power supply meets the specifications (5.5 mA current consumption).
2. **Guitar Input:** Connect your electric guitar to the "IN" jack on the right side of the pedal using a 1/4-

inch instrument cable.

3. **Output to Amplifier:** Connect the "OUT" jack on the left side of the pedal to your guitar amplifier's input or to the input of the next effect pedal in your signal chain, using another 1/4-inch instrument cable.
4. **Initial Settings:** Before turning on your amplifier, set the GAIN, TONE, and LEVEL knobs to their minimum positions (fully counter-clockwise) to avoid sudden loud sounds.
5. **Power On:** Turn on your amplifier, then apply power to the ML-DT1 pedal.



Figure 3: Side view illustrating the input and output connections of the ML-DT1 pedal.

This image shows a side view of the ML-DT1 pedal, emphasizing the 1/4-inch audio input and output jacks. The "IN" jack is on the right, and the "OUT" jack is on the left. This view helps in understanding the correct orientation for connecting instrument cables from your guitar and to your amplifier or other pedals.

OPERATING INSTRUCTIONS

Once the pedal is set up, you can begin to explore its distortion capabilities:

1. **Engaging the Effect:** Press the footswitch to activate the distortion effect. The red LED indicator will light up. Press it again to bypass the effect (LED off).
2. **Adjusting Gain:** Start with the GAIN knob at a low setting. Slowly turn it clockwise to increase the amount of distortion, from a subtle crunch to heavy saturation.
3. **Adjusting Tone:** Use the TONE knob to shape the frequency response of the distorted sound. Turn it counter-clockwise for a warmer, darker tone, and clockwise for a brighter, more cutting sound.
4. **Adjusting Level:** The LEVEL knob controls the overall output volume of the pedal when the effect is engaged. Adjust it to match the volume of your bypassed signal or to boost your sound for solos.

5. **Experimentation:** The interaction between GAIN, TONE, and LEVEL allows for a wide variety of distortion sounds. Experiment with different settings to find your desired tone.



Figure 4: The ML-DT1 pedal in use, demonstrating the footswitch operation.

This image shows the ML-DT1 pedal on the floor, connected with cables, and a foot positioned to press the footswitch. This illustrates the typical usage scenario for a guitar effect pedal, where the musician uses their foot to engage or disengage the effect during performance. A guitar is visible in the background, indicating the context of use.

MAINTENANCE

Proper care will ensure the longevity and optimal performance of your ML-DT1 pedal:

- **Cleaning:** Use a soft, dry cloth to clean the pedal's exterior. Avoid using abrasive cleaners, solvents, or waxes, as these can damage the finish or internal components.
- **Storage:** Store the pedal in a cool, dry place away from direct sunlight and extreme temperatures. If not in use for an extended period, disconnect the power supply.
- **Handling:** Handle the pedal with care. Avoid dropping it or subjecting it to strong impacts.
- **Power Supply:** Always use a regulated 9V DC power supply with a center-negative polarity. Using an incorrect power supply can damage the unit and void the warranty.

TROUBLESHOOTING

If you encounter issues with your ML-DT1 pedal, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No sound when pedal is engaged.	<ul style="list-style-type: none"> ◦ Incorrect power supply. ◦ Cables not connected properly. ◦ LEVEL knob set to minimum. ◦ Faulty cable or amplifier. 	<ul style="list-style-type: none"> ◦ Ensure 9V DC, center-negative power supply is used. ◦ Check all cable connections (IN, OUT). ◦ Increase the LEVEL knob. ◦ Test with different cables and amplifier.
Unwanted noise or hum.	<ul style="list-style-type: none"> ◦ Ground loop issue. ◦ Interference from other electronics. ◦ High GAIN setting. ◦ Faulty power supply. 	<ul style="list-style-type: none"> ◦ Use an isolated power supply. ◦ Move pedal away from power transformers or fluorescent lights. ◦ Reduce GAIN setting. ◦ Try a different power supply.
LED not lighting up.	<ul style="list-style-type: none"> ◦ No power. ◦ Faulty LED. 	<ul style="list-style-type: none"> ◦ Check power connection and supply. ◦ If power is confirmed, contact support.

SPECIFICATIONS

Technical specifications for the MONKEY LOOP ML-DT1 Distortion Pedal:

Model	ML-DT1
Effect Type	Distortion
Input Impedance	500 Kohm
Output Impedance	150 Ohm
Equivalent Input Noise	-90 dBu or less
Power Requirement	DC 9V (center negative)
Current Consumption	5.5 mA
Dimensions (L x W x H)	94 mm × 42 mm × 48 mm
Weight	133 g
Material	Plastic, Metal
Hardware Interface	1/4-inch Audio Jack



Figure 5: ML-DT1 pedal with key technical specifications highlighted.

This image presents an angled view of the ML-DT1 pedal, similar to Figure 2, but with an overlay of text detailing several key specifications. These include "DISTORTION EFFECT WITH TONE AND GAIN CONTROL", "INPUT IMPEDANCE: 500 KOHM", "OUTPUT IMPEDANCE: 150 OHMS", "EQUIVALENT INPUT NOISE: -90 DBU OR LESS", and "CURRENT CONSUMPTION: 5.5 MA (DC 9V)". This visual summary reinforces the technical data provided in the specifications table.





Figure 6: Bottom view of the ML-DT1 pedal, displaying power requirements and compliance markings.

This image shows the bottom panel of the ML-DT1 pedal. Clearly visible are the power specifications: "Power: DC 9V Adapter" and "Polarity: Center Negative". Regulatory compliance marks such as "FC CE" and "RoHS" are also present, along with "Made in China". This information is crucial for ensuring correct power supply usage and understanding product certifications.

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official MONKEY LOOP website. Keep your proof of purchase for any warranty claims.

