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Keeley KCav2

Keeley Caverns V2 Reverb and Delay Pedal User Manual

Model: KCav2

Brand: Keeley

1. INTRODUCTION

The Keeley Caverns V2 is a dual-effect pedal designed to combine delay and reverb functionalities into a single, compact unit. It features an analog-style tape delay with modulation options and versatile reverb modes. This manual provides detailed instructions for setup, operation, and maintenance of your Caverns V2 pedal.

Key Features:

- 650ms Delay with Modulation
- Spring, Shimmer, and Modulated Reverb options
- Switchable True-Bypass or Trails operation
- Compact design suitable for various pedalboard setups
- Designed for 9V Center Negative power supply (not included)
- 9V Battery Compatible (battery not included)



Image: Front view of the Keeley Caverns V2 pedal, showcasing its white enclosure and control knobs.

2. SETUP

Power Requirements:

The Caverns V2 pedal requires a 9V DC power supply with a center-negative polarity. Ensure your power supply meets these specifications to prevent damage to the unit. The pedal is also compatible with a 9V battery (not included).

- **Voltage:** 9 Volts DC
- **Polarity:** Center Negative
- **Current Draw:** 75mA+ (minimum)

Connections:

Connect your instrument to the "IN" jack and your amplifier or next pedal in the signal chain to the "OUT" jack. Both are standard 1/4-inch audio jacks.

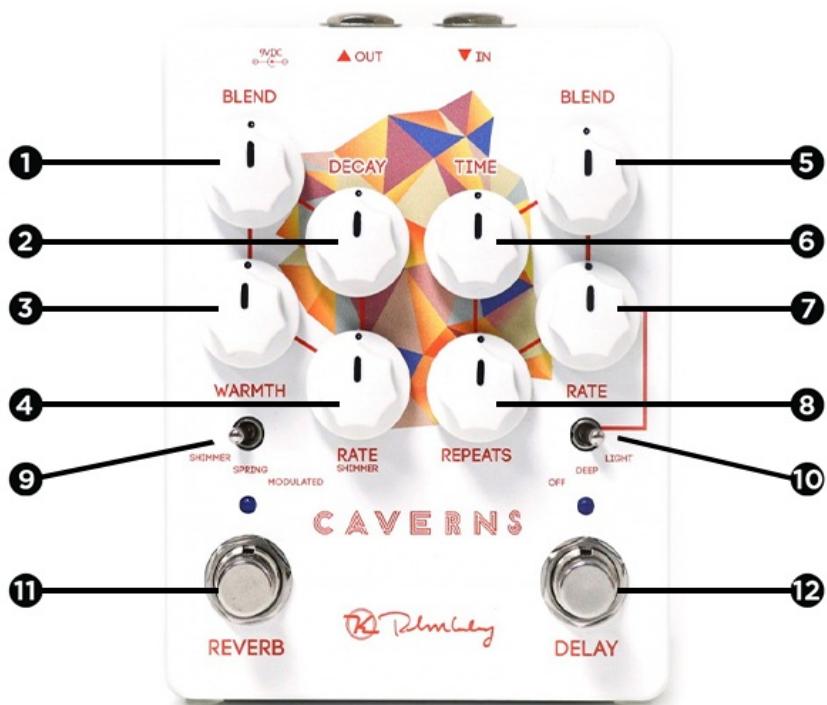
1. Connect a 9V DC center-negative power supply to the power input jack (9VDC).
2. Connect your guitar or other instrument to the "IN" jack.
3. Connect the "OUT" jack to your amplifier's input or the input of the next pedal in your signal chain.



Image: Top view of the Keeley Caverns V2 pedal, showing the input (IN), output (OUT), and power (9VDC) jacks.

3. OPERATING THE PEDAL

The Caverns V2 features independent controls for its Reverb and Delay sections, allowing for versatile sound shaping. Refer to the diagram below for control identification.



EFFECT TYPE: DELAY AND REVERB WITH MODULATION AND SWITCHABLE TRAILS
POWER REQUIREMENT: 9VDC CENTER NEGATIVE, 75mA+ POWER SUPPLY REQUIRED
INPUT/OUTPUT: MONO INSTRUMENT INPUT, MONO INSTRUMENT OUTPUT

Image: Detailed diagram of the Keeley Caverns V2 pedal's controls, with each knob and switch numbered for reference.

Control Descriptions:

No.	Control	Function
1	Reverb Blend	Adjusts the mix of the wet (effected) reverb signal with the dry (unaffected) signal. Turn clockwise for more reverb.
2	Reverb Decay	Controls the length of the reverb tail. Higher settings result in longer, more expansive reverb.
3	Reverb Warmth	Shapes the tone of the reverb, adding warmth or brightness.
4	Reverb Rate / Shimmer	Controls the modulation rate for the Modulated Reverb mode. In Shimmer mode, this knob adjusts the intensity of the shimmer effect.
5	Delay Blend	Adjusts the mix of the wet (effected) delay signal with the dry (unaffected) signal. Turn clockwise for more delay.
6	Delay Time	Sets the delay time, from short slap-back echoes to long, atmospheric repeats (up to 650ms).
7	Delay Repeats	Controls the number of delay repeats. From a single echo to infinite oscillation.
8	Delay Rate	Adjusts the rate of the modulation applied to the delay repeats.
9	Reverb Mode Switch	Selects the reverb type: Shimmer (up), Spring (middle), or Modulated (down).

No.	Control	Function
10	Delay Modulation Switch	Selects the delay modulation intensity: Light (up), Off (middle), or Deep (down).
11	Reverb Footswitch	Activates or deactivates the Reverb effect. The LED indicates status (on/off).
12	Delay Footswitch	Activates or deactivates the Delay effect. The LED indicates status (on/off).

True-Bypass vs. Trails Mode:

The Caverns V2 offers a switchable True-Bypass or Trails mode. In Trails mode, the reverb and delay tails naturally decay after the effect is disengaged, providing a smoother transition. In True-Bypass mode, the effect cuts off immediately when disengaged, preserving signal integrity when the pedal is off.

To switch between modes, consult the internal dip switches or the manufacturer's official documentation for the specific procedure. This setting is typically located inside the pedal enclosure and requires careful handling.

4. MAINTENANCE

To ensure the longevity and optimal performance of your Keeley Caverns V2 pedal, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the pedal's exterior. Avoid abrasive cleaners or solvents, which can damage the finish or internal components.
- **Storage:** Store the pedal in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity.
- **Power:** Always use the correct power supply (9V DC, center-negative) to prevent electrical damage. Disconnect power when the pedal is not in use for extended periods.
- **Connections:** Periodically check all cable connections for wear and tear. Ensure jacks are free of dust and debris.
- **Avoid Physical Shock:** Protect the pedal from drops or impacts, which can damage internal circuitry or external components.

5. TROUBLESHOOTING

If you encounter issues with your Caverns V2 pedal, refer to the following common troubleshooting steps:

- **No Sound:**

- Ensure the power supply is correctly connected and providing the specified 9V DC center-negative power.
- Check all instrument cables. Try different cables to rule out faulty connections.
- Verify that both the Reverb and Delay footswitches are engaged (LEDs lit) if you expect an effect.
- Ensure the Blend knobs for both effects are not set to minimum (fully dry).

- **Unwanted Noise/Hum:**

- Use a high-quality, isolated power supply. Daisy-chaining power supplies can sometimes introduce noise.
- Check for ground loops in your signal chain.
- Ensure all cables are properly shielded and in good condition.
- Move the pedal away from power transformers or other sources of electromagnetic interference.

- **Effect Not Engaging:**

- Confirm the footswitch is fully pressed and the corresponding LED illuminates.
- If in Trails mode, ensure the effect is not simply decaying from a previous engagement.

If these steps do not resolve the issue, please contact Keeley Electronics customer support for further assistance.

6. SPECIFICATIONS

Attribute	Detail
Model Number	KCav2
Effect Type	Delay and Reverb with Modulation
Power Requirement	9V DC Center Negative, 75mA+ Power Supply Required
Battery Compatibility	9V Battery (not included)
Input/Output	Mono Instrument Input, Mono Instrument Output (1/4 inch audio)
Signal Format	Analog
Dimensions (L x W x H)	6.75" x 4.3" x 3.25" (approximate)
Item Weight	1.02 pounds (approximate)
Body Material	Metal, Plastic
Color	White

7. WHAT'S IN THE BOX

Upon unboxing your Keeley Caverns V2 pedal, you should find the following components:

- Keeley Caverns V2 Reverb and Delay Pedal
- 2 Footswitches (integrated into the pedal)
- *(Note: Power supply and 9V battery are not included and must be purchased separately.)*

8. WARRANTY AND SUPPORT

Keeley Electronics products are built with quality and reliability in mind. For information regarding the product warranty, please refer to the official Keeley Electronics website or contact their customer support directly. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase.

For technical support, troubleshooting beyond this manual, or warranty claims, please visit the [Keeley Electronics Store on Amazon](#) or their official website.



Image: Official logo of Keeley Electronics.

