MXR M292

MXR M292 Carbon Copy Deluxe Analog Delay Pedal Instruction Manual

Model: M292 | Brand: MXR

1. Introduction

The MXR Carbon Copy Deluxe Analog Delay Pedal (Model M292) is an advanced analog delay unit designed to provide a warm, organic delay sound with enhanced control and versatility. This pedal expands upon the original Carbon Copy with extended delay time, tap tempo functionality, and additional modulation options. It is suitable for use in various musical setups, offering both classic and modern delay effects.

2. Key Features

- Warm analog delay sound, characteristic of the original Carbon Copy.
- Extended delay time, up to 1.2 seconds, for longer repeats.
- Tap Tempo functionality for precise synchronization of delay repeats with musical timing.
- Four Tap Division settings (dotted 8ths, 8ths, triplets, 16ths) with an easy-to-read status display.
- Bright switch to select between the original dark, mellow delay and a vibrant, articulate tone.
- Modulation section with Speed and Width controls to shape chorusing effects on repeats.
- Expression jack for external control over various functions.
- Programmable presets for saving and recalling preferred settings.
- Internal Line Level/Instrument Level switch for optimal performance in front of an amplifier or in an effects loop.
- Internal Dry Kill switch for a "wet only" effect, ideal for studio recording applications.
- True bypass switching to maintain signal integrity when the effect is disengaged.
- Rugged construction for durability.

3. Controls and Connections

3.1. Top Panel Controls

This image displays the top panel of the MXR Carbon Copy Deluxe pedal, showing all control knobs, switches, and footswitches.

- **MIX Knob:** Adjusts the blend of the dry signal with the delayed signal. Turn clockwise for more delay effect.
- **REGEN Knob:** Controls the number of delay repeats. Higher settings produce more repeats.
- **DELAY Knob:** Sets the delay time. This knob works in conjunction with the Tap Tempo function.
- **SPEED Knob:** Adjusts the speed of the modulation effect when the MOD switch is engaged.
- **WIDTH Knob:** Adjusts the intensity or depth of the modulation effect when the MOD switch is engaged.
- **BRIGHT Switch:** Toggles between the classic dark analog delay tone and a brighter, more articulate delay tone.
- **TAP DIV Switch & Display:** Selects the tap tempo subdivision (dotted 8ths, 8ths, triplets, 16ths). The display indicates the current subdivision.
- **MOD Switch:** Engages or disengages the modulation effect on the delay repeats.

- **TAP-BEAT Footswitch:** Used to tap in the desired delay tempo. Can also be used to cycle through presets.
- **EFFECT Footswitch:** Engages or bypasses the delay effect.

3.2. Rear Panel Connections

This image shows the rear panel of the MXR Carbon Copy Deluxe pedal, highlighting the input, output, power, and expression pedal jacks.

- **IN Jack:** Connect your instrument or the output of a preceding effect pedal here.
- **OUT Jack:** Connect this to your amplifier's input or the input of a subsequent effect pedal.
- **POWER Jack:** Connect a 9V DC power adapter (center negative) here.
- **EXP Jack:** Connect an optional expression pedal for real-time control over various parameters.

4. Setup

1. **Power Connection:** Connect a 9-volt DC power adapter (center negative) to the POWER jack. The pedal can also be powered by a 9-volt battery (not included, access via bottom plate).
2. **Audio Connections:**
    - Connect your guitar or the output of another pedal to the IN jack.
    - Connect the OUT jack to your amplifier's input or the input of the next pedal in your signal chain.
3. **Expression Pedal (Optional):** For external control, connect an expression pedal to the EXP jack. Refer to the operating section for details on assigning functions.
4. **Internal Switches:**
    - **Line Level/Instrument Level Switch:** Located inside the pedal. Set to "Instrument" for typical guitar setups (in front of amp) or "Line" for effects loops or studio use.
    - **Dry Kill Switch:** Also located inside. Engage for a "wet only" signal, useful for parallel effects loops or re-amping in a studio environment.

5. Operating the Pedal

5.1. Basic Delay Operation

- Engage the effect by pressing the **EFFECT** footswitch. The blue LED will illuminate.
- Adjust the **MIX** knob to set the balance between your dry signal and the delay repeats.
- Use the **REGEN** knob to control the number of repeats. Lower settings result in fewer repeats, while higher settings can lead to self-oscillation.
- The **DELAY** knob sets the initial delay time.
- Toggle the **BRIGHT** switch to select between the darker, warmer original Carbon Copy tone and a brighter, more pronounced delay.

5.2. Tap Tempo Functionality

- To set the delay tempo, tap the **TAP-BEAT** footswitch two or more times in rhythm. The delay time will synchronize with your taps.
- Use the **TAP DIV** switch to select the desired subdivision for your tapped tempo. The LED display will show the selected subdivision (e.g., a single dot for 8ths, two dots for dotted 8ths, etc.).

5.3. Modulation Effects

- Engage the modulation by pressing the **MOD** switch. The blue LED next to the switch will illuminate.
- Adjust the **SPEED** knob to control how fast the modulation oscillates.
- Adjust the **WIDTH** knob to control the depth or intensity of the modulation.

5.4. Presets and Expression Pedal

- The Carbon Copy Deluxe features programmable presets. Consult the full manual for detailed instructions on saving and recalling your custom settings.
- An expression pedal connected to the **EXP** jack can be assigned to control various parameters in real-time, such as delay time, mix, or modulation speed.

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the pedal's exterior. Avoid abrasive cleaners or solvents.
- **Storage:** Store the pedal in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Battery Replacement:** If using battery power, replace the 9-volt battery when the pedal's performance degrades or the power LED dims. To replace, remove the bottom plate screws.
- **Cable Care:** Ensure all audio and power cables are in good condition to prevent signal loss or damage.

7. Troubleshooting

- **No Sound/Weak Signal:**
  - Check all cable connections (instrument to IN, OUT to amp).
  - Ensure the power adapter is correctly connected and functioning, or the battery is fresh.
  - Verify the EFFECT footswitch is engaged (blue LED on).
  - Check the MIX knob setting; if set too low, the effect may be inaudible.
  - Ensure internal Line Level/Instrument Level switch is set appropriately for your setup.

- **Unwanted Noise/Hum:**
  - Use a high-quality, regulated 9V DC power supply.
  - Ensure all cables are properly shielded and not damaged.
  - Try isolating the pedal from other power sources or pedals that might introduce noise.
- **Delay Not Syncing with Tap Tempo:**
  - Ensure you are tapping the **TAP-BEAT** footswitch at least twice in a consistent rhythm.
  - Check the **TAP DIV** setting to ensure the correct subdivision is selected.

8. Specifications

Parameter	Value
Brand	MXR
Model Name	Carbon Copy Deluxe
Model Number	M292
Signal Format	Analog
Max Delay Time	Up to 1.2 seconds
Power Source	9V DC (center negative) or 9V Battery
Voltage	9 Volts
Amperage	9 Milliamps
Item Weight	1.11 Kilograms
Connectivity	Input, Output, Power, Expression Pedal
Switching	True Bypass

9. Product Demonstration

[redacted]

This video provides a demonstration of the MXR Carbon Copy Deluxe Analog Delay Pedal, showcasing its various features and sound capabilities, including tap tempo and modulation effects.

10. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the official MXR website or contact their customer service department. Keep your purchase receipt as proof of purchase for warranty claims.