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**M169** CARBON COPY® ANALOG DELAY



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92503006607revD

# M169 CARBON COPY® ANALOG DELAY

## DESCRIPTION

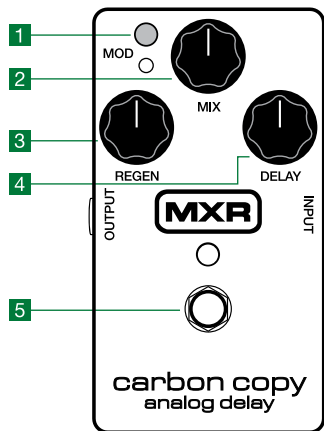
- 100% analog bucket-brigade technology
- Up to 600ms of delay with switchable modulation
- Internally adjustable modulation circuit
- True bypass

## POWER

The MXR Carbon Copy Analog Delay is powered by one 9-volt battery (remove bottom plate to install), a 9-volt AC Adapter such as the Dunlop ECB003/ECB003EU or a DC Brick™ power supply.

## CONTROLS

- 1 MOD switch toggles modulation on/off (blue LED indicates on)
- 2 MIX knob controls blend of wet and dry signals
- 3 REGEN knob sets number of repeats
- 4 DELAY knob sets delay time
- 5 FOOTSWITCH toggles effect on/bypass (blue LED indicates on)



## DIRECTIONS

- Run a cable from your guitar to the Carbon Copy's INPUT jack and another cable from the Carbon Copy's OUTPUT jack to your amplifier.
- Start with all controls at 12 o'clock.
- Turn the effect on by depressing the footswitch.
- Rotate the REGEN knob clockwise to increase the number of repeats or counterclockwise to decrease it.
- Rotate the MIX knob clockwise to increase the ratio of wet to dry signal or counterclockwise to decrease it. Fully clockwise results in 100% wet signal while fully counterclockwise results in 100% dry signal.
- Rotate the DELAY knob clockwise to increase delay time or counterclockwise to decrease it.
- Push in the MOD switch to add modulation to your delay signal. Modulation width and speed can be adjusted internally with a 2mm slotted screwdriver (see Diagram A).

## DIAGRAM A

### MODULATION

WIDTH  -  +      SPEED  -  +

## SAMPLE SETTINGS



## SPECIFICATIONS

|                  |                               |
|------------------|-------------------------------|
| Input Impedance  | 1 MΩ                          |
| Output Impedance | 1 kΩ                          |
| Max Input Level  | +5 dBV at 500 Hz              |
| Max Output Level | +8 dBV                        |
| Noise Floor*     |                               |
| Mix at Max CW    | -96 dBV                       |
| Mix at Max CCW   | -104 dBV                      |
| Delay Distortion | <1% at 1 kHz,<br>-5 dBV Input |
| Delay Time       | 20 ms to 600 ms               |
| Noise Reduction  | 2:1 ratio                     |
| Modulation Speed | 0.2 Hz to 2.2 Hz              |
| Bypass           | True Hardware                 |
| Current Draw     | 26 mA                         |
| Power Supply     | 9 volts DC                    |

\*Regen at max CCW, A-weighted