


# Cozy Manual

Hello and thank you for supporting Magpie Pedals by getting one of my creations!

Feel free to use it with guitar/bass/synths/drums/voice or anything in between (results may vary).

It works on 9VDC (2.1mm) +  - center negative.

Input is on the right side (black ring) and output is on the left (white ring).

## 1. Triple Bypass (Right Footswitch):

This pedal uses a unique bypass switching system that I call "**Triple Bypass**", where you have three different "modes" for turning the pedal on and off:

**Short Press:** Works like any regular pedal. Press to turn it on and then press to turn it off.

**Momentary/Hold:** If you press and hold for about 1-2 seconds the pedal will enter a hold mode. Here it will simply stay in the state it entered when pressing down the button, for however long you decide to hold down the button, and then return when you release the button.

So if you press down when the pedal is turned OFF it will stay ON for as long as you hold the button pressed down, and vice versa.

**Tap Tempo Bypass:** If you quickly double tap the bypass button (either when on or off) the pedal will enter the "Tap Tempo Bypass" mode. Here the pedal automatically turns itself on/off in whichever tempo you tap. So to change tempo you simply tap a new tempo.

It continuously counts time since your last tap. So if you have been in a tempo for some time and just tap a single tap, it will count the time between this tap and the last tap in previous tempo as your new tempo. With a max length of around 1min.

To exit "tap tempo bypass" you simply press and hold the button for about 1-2 seconds. Note that when exiting this mode the pedal will be ON (regardless if you exit in a OFF or ON state).


## 2. info:

Cozy is a PT2399 delay with the time parameter being controlled by a **sample and hold (S&H)**.

It has two different modes of operation:

**1: Manual Mode**, where you *sample* by either pressing the *left footswitch* or connecting a *5V CV-Clock* to the 3,5mm jack on the back. Additionally the "*tap tempo bypass*" will sync to the S&H in manual mode so that every time the pedal turns back on, it has sampled a new signal.

(Whenever entering *manual mode* from *tap tempo mode* the S&H will be in a "open" state of constantly sampling the analog signal. This makes it follow the LFO directly and you now have a more traditional modulated delay. To end this you simply *tap the left footswitch once* and you are back to regular manual mode).

**2: Tap Tempo Mode**, where the S&H is automatically sampling and holding. You set the rate by either *tapping on the left footswitch* or adjusting the *speed knob* (  ). It will automatically switch over to whatever you change last.

*To change between modes you simply press and hold the left footswitch for about 1-2 seconds.*

### 3. Controls:

**X**: **Mix** knob. From 100% dry, to introducing delay, to slight overdriving of the delay lines

**F**: **Repeats/Feedback** knob. Fully clockwise to self-oscillate (more in shorter delay times).

**T**: **Master Time** knob. Sets the range of how much the S&H can affect time. Fully clockwise for max range.

**L**: **LFO Speed** knob. Sets the speed of the analog signal which is being sampled by the S&H.

**C**: **S&H Speed** knob. This knob sets the rate of sampling.

**D**: **S&H Depth** knob. Sets the depth of how much the S&H will affect the delay time.

*Going fully clockwise on both the S&H Depth and Master Time can make it to much for the PT2399. Meaning that it will silence until it get's a new sample within a functioning range.*

**Inside Trimpot:** On the Cozy PCB there is a LFO Shape trimpot. Since the LFO is analog you tune the waveform yourself with a "voltage divider". Sweet spot is between 1-3 o'clock. To far in any direction and the LFO stops working. Enjoy!