


Bubbles V.2 Mega 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:

Bubbles is a PT2399 delay with the time parameter being controlled by a ten step sequencer.


The new and improved V.2 has two different modes of operation:


1: Tap Tempo Mode, where you set the sequencer tempo by either tapping on the left footswitch or adjusting the speed knob ( ). It will automatically switch over to whatever you change last.


2: Manual Mode, where the sequencer is frozen and you move 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 sequencer in manual mode so that every time the pedal turns back on, it has moved a step in the sequencer.


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

3. Controls:

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

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

: **Master Time** knob. It decides the range of the ten mini pots. Fully clockwise for max range.

: **Steps** knob. This knob is where you pick how many steps the sequencer will utilize. From 1-10.

: **Speed** knob. This knob sets your sequencer speed. From slow as a snail to fast as a rocket.

Mini Pots: The ten small pots are all identical time pots (scaled by the master time knob).

Since "jumping" in delay time affects pitch, they are *reversed*. Meaning that whereas your standard time knobs will increase delay time when turning clockwise, the mini pots go *counter clockwise for longer delay time*. Since it makes more sense in a sequencer that clockwise is higher pitch (shorter time) and counter clockwise is lower pitch (longer time).

Going fully counter clockwise on the mini pots with the MASTER TIME fully clockwise will be too much for the PT2399. Meaning that it will silence that step.

(If the first mini pot is in this state when plugging in power, Bubbles may get stuck in this silent mode and no sound will pass through the PT2399. To solve this you simply unplug power and put the MASTER TIME knob counter clockwise before plugging power back in).