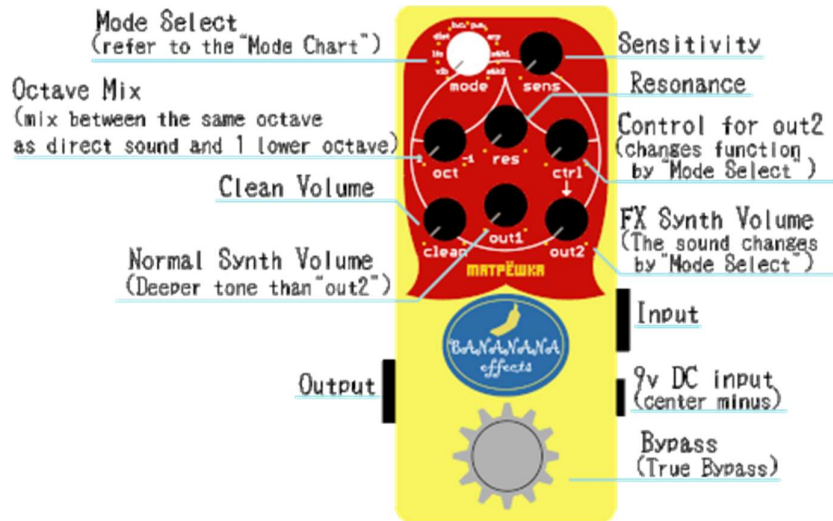


Bananana Matryoshka



MATRYOSHKA is a compact yet powerful bass synth pedal that has **8 selectable modes**. This pedal detects your input pitch and envelope and produces a fat synth sound. The colour of the "Mode Knob" changes for each mode.

Mode Chart

- 1) Red - Vibrato (ctrl: Rate)
- 2) Orange - LFO (ctrl: Rate)
- 3) Yellow - Distortion (ctrl: Gain) [Note ✕1]
- 4) L Green - Bit Crush (ctrl: Bit Rate)
- 5) Green - Pitch Shift (ctrl: -4th, Detune, 5th, OctUp)
- 6) L Blue - Arpeggiator (ctrl: Rate) [Note ✕2]
- 7) Blue - Filter Sample & Hold (ctrl: Rate)
- 8) Violet - Aliaser Sample & Hold (ctrl: Rate)

This pedal can output 2 types of synth sounds simultaneously:

- i. **out1**: Normal synth sound that has a deeper tone than "out2".
 - ii. **out2**: FX synth sounds that change the sound by "Mode knob".
- Levels of these synth sounds can be controlled separately allowing you to make various sounds while keeping a deep bass tone..

Further:

- iii. you can mix in **clean** (e.g. allowing for make unison phrases).
- iv. The **octave mix** knob (between the same octave as direct sound and one octave lower) can provide for a deeper synth tone.

Notes

✕1: In this mode, the out1 tone is darker than other modes to match the out2 tone.

✕2: In this mode, the out1 tone is brighter than other modes to match the out2 tone.

Specifications

- Dimensions: 52mm(W) x 93mm(D) x 49mm(H) [1590A Hammond]
- Input Impedance: 1MΩ
- Power Source: 9V DC (Centre Minus)
- Current Draw: 60mA

[Source – Bananana Effects website]

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Settings - initial run through (all settings are 0 to 10)

Out 1 – this provides a supporting / underlying synth tone (and is definitely not the ‘main course’ of this pedal – that is **Out 2**). It’s not particularly impacted by the sensitivity dial and works well with resonance set at 7 to 8. Anything above 8 on resonance didn’t sound good. Out1 is pretty uniform / invariant with the different modes but it is noticeably louder on **Arpeggiator** and a little more muffled on **Aliaser**.

Clean – set at 2 to 3 introduces a clear and balanced amount of clean; any higher and the clean becomes over-bearing.

Octave – introduces an octave into the mix to fatten up the sound.

Out 2 – this is the where the party is at for this pedal!

- **Vibrato** a synthy dirty vibrato, ctrl adjusts rate of vibrato from slow (0) to fast (10)
- **LFO** a cleaner version of Vibrato and one of the ‘purer’ synth tones on the pedal, ctrl adjusts rate of ‘vibrato’ from slow (0) to fast (10)
- **Distortion** a synth dirt (similar to Vibrato in sound but without the vibrato); ctrl adjusts the level of gain / dirt
- **Bit Crush** ctrl adjusts the bit rate and therefore the pitch with high pitch (0) to low pitch (10)
- **Pitch Shift** ctrl - approx dial settings: (0 - 4) -4th, (4 - 6) Detune, (6 – 8) +5th, (9 - 10) OctUp
- **Arpeggiator** a dirtier version of Vibrato. Ctrl adjusts rate of vibrato
- **Filter Sample & Hold** ctrl: rate
- **Aliaser Sample & Hold** combines Filter S&H with Bit Crush; ctrl: rate

Here’s some initial settings for each that I thought worked well:

Out2 set on 10 to match clean-bypass volume; Clean = 3; Res = 7;

Sens = 5; Oct = 0; or ‘dusty end’ / high notes Sens = 2; Oct = 5

Mode	Out1	Ctrl
Vibrato	5	7
LFO	0	8
Distortion	5	7
Bit Crush	5	7
Pitch Shift	5	5
Arpeggiator	5	2
Filter S & H	5	var
Aliaser S & H	5	var

“Boss OC2” sound with:

Mode = Arp. (for max vol Out1); Octave and Out1 =10, everything else set = 0

[Al Krow - July 2018]