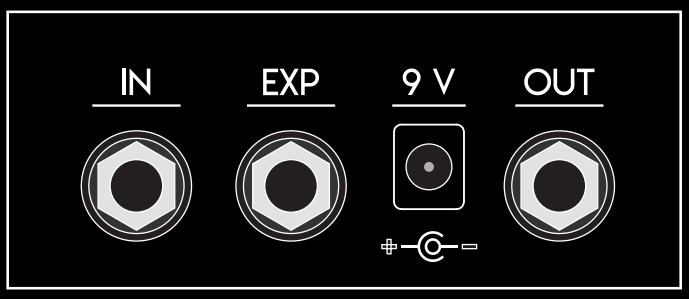
THE OFF1 PEDAL FEATURES 3 ANALOG STAND ALONE CIRCUITS IN SERIES: OCTAVE (SUB1 & SUB2) + FUZZ (WITH SWITCHABLE OCTAVE UP EFFECT) + LADDER FILTER.

OCTAVE AND FUZZ CAN BE USED INDIVIDUALLY FOR A MORE CANONICAL APPROACH OF THE TWO EFFECTS, WHILE FROM THEIR COMBINATION MORE EXPERIMENTAL RESULTS CAN BE OBTAINED. THE FIRST EFFECT IN THE INTERNAL SIGNAL CHAIN IS THE OCTAVE AND THEN IN SERIES COME THE FUZZ AND THE FILTER. BY APPLYING THE FUZZ'S HIGH OCTAVE AND FILTER ON THE LOW OCTAVES YOU GET OUT OF THE ORDINARY SOUNDS AND ARE PROJECTED TOWARDS MOODS CLOSE TO THE WORLD OF SYNTHS.

MAIN FEATURES

- 3 ANALOG CIRCUITS
- SYNTHS STYLE LADDER FILTER
- 2 FOOTSWITCHES CONFIGURATION MODES
- BOTH BUTTONS CAN BE USED IN LATCHING OR MOMENTARY MODE
- EXPRESSION PEDAL INPUT



FRONT PANEL

OCTAVE

DRY: controls the amount of the dry signal.
SUB 1: controls the amount of the first sub-octave.
SUB 2: controls the amount of the second sub-octave.

FUZZ

GAIN: defines the amount of fuzz from low gain to full saturation.
TONE: controls tone, right for brighter sounds, left for darker and fat tones.
VOLUME: controls the fuzz volume.
MID switch: positioned downwards applies a cut in the mid frequencies.
UP switch: positioned upwards engages the high octave.

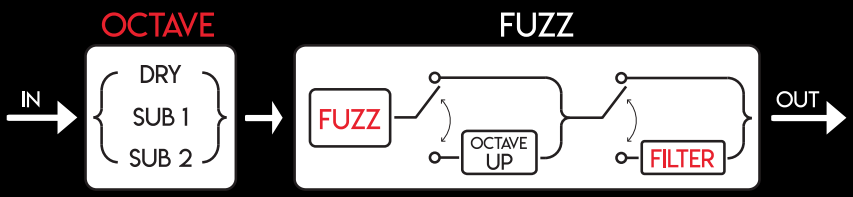
FILTER

CUTOFF: controls the cutoff frequency of the filter. Harmonic content or sound below the filter Cutoff Frequency will freely pass unaffected.
RESO: controls the amount of the filter resonance. The RESO knob takes a portion of the output of the filter and sends it back to the input, creating a resonance peak that occurs at the filter's cutoff freq. The filter can self-oscillate if you crank the resonance above 3 o'clock.
FILTER switch: positioned downwards engages the filter.

REAR PANEL

IN: input mono jack
9V: power jack 9 V DC - 100 mA
center negative - isolated power supply
OUT: output mono jack
EXP: expression pedal or CV input (TRS cable). Connect an expression pedal or a Control Voltage to control the cutoff frequency. When the TRS cable is plugged in, the CUTOFF knob adjusts the minimum cutoff frequency.
Expression pedal: standard EXP pedals - Tip to wiper.
Control Voltage: (CV) 0-5V range on Tip. The Ring must be left foating in this case.

THE SIGNAL CHAIN – 3 ANALOG CIRCUITS



OCTAVE:
The Octave circuit belongs to the family of the old monophonic octaves and can add the two octaves below the original note.
Each octave has a separate volume control and plays back with outstanding clarity, thanks to the very precise and fast-tracking circuit, which allows even bridge pickups to be used without difficulty.
Controls: DRY - SUB 1 - SUB 2

FUZZ:
Fuzz has an edgy and grumpy character; it doesn't like being compared to other Fuzz tones.
It's capable of producing a wide range of tones from every fuzz era with careful tweaking of Gain, Tone and Mid frequencies controls. From thin and harmonic, to thick and growling.
A pair of diodes is also used in the circuit to achieve the octave doubling effect reminiscent of the old octave up tones of the late 60's and early 70's. The high octave can be activated manually via the toggle switch or via the left footswitch when the pedal is in Mode 2.
Controls: GAIN - TONE - VOLUME - MID toggle - Octave UP toggle.

FILTER:
The filter circuit belongs to the family of the legendary synths ladder filters and comes with the inevitable Cutoff and Resonance controls. You can crank the resonance and sweep the cutoff to hear those characteristic and wonderful harmonic peaks.
The Cutoff control can also be controlled via an expression pedal (or CV) using the dedicated rear jack.
The filter works combined with the Fuzz when the filter toggle switch is positioned downwards.
Controls: CUTOFF - RESO - FILTER toggle - EXP.

FOOTSWITCHES

The footswitches can be set in two different ways. In Mode 1 (which is the default) the left button activates the Octave and the right one the Fuzz. In the Mode 2 instead, on the right button we find the general bypass of the pedal (octave + fuzz), while the left button controls the engagement of the high octave. In Mode 2 the UP toggle switch must be positioned upwards.
To change the Modes, power up while pressing the left footswitch. The LED will flash for a few seconds to show that the mode has been changed.
The OFF1 is equipped with an original/proprietary timed switching system that allow to simultaneously use the footswitches in latching or momentary mode:

- For standard latching operation, tap the footswitch once to activate the effect and then tap again to bypass.
- For momentary operation, hold the footswitch down for as long as you'd like to use the effect. Once you release the switch the effect will be bypassed.

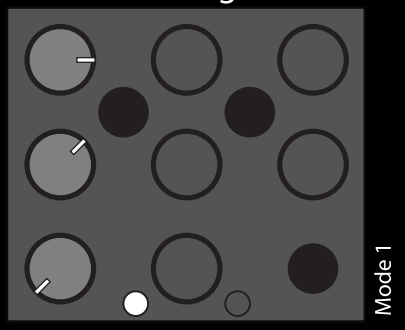
Mastro Valvola

OFF1

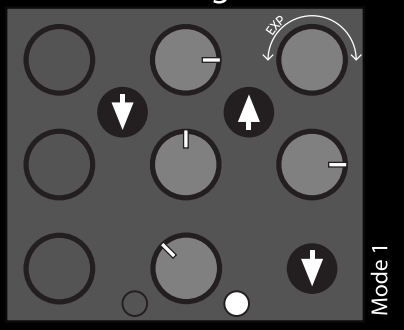
OCTAVEFU
ZZFILTER

SETTINGS - FOR GUITAR & BASS

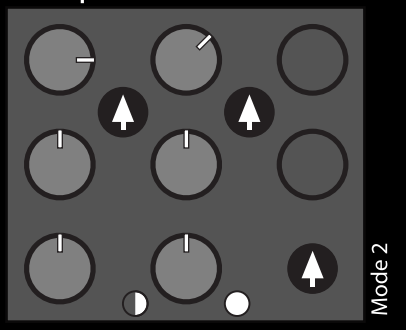
Classic analog octave



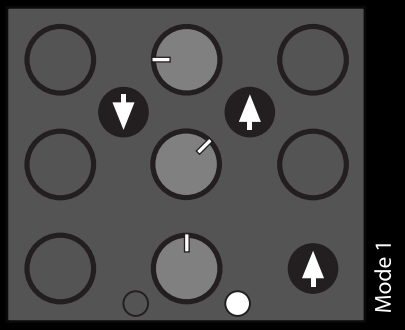
Screaming fuzz



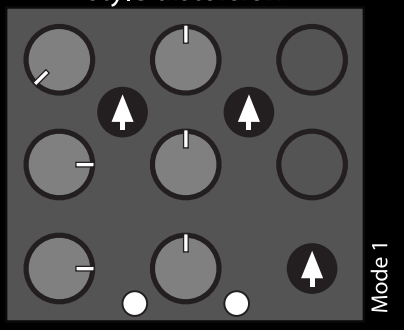
Monophonic combat bass



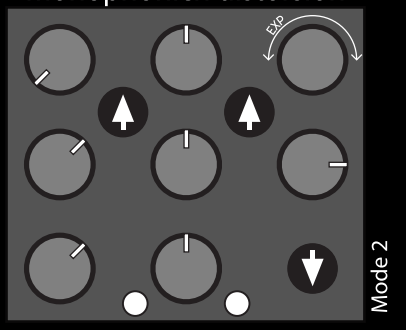
Seventies sour fuzz



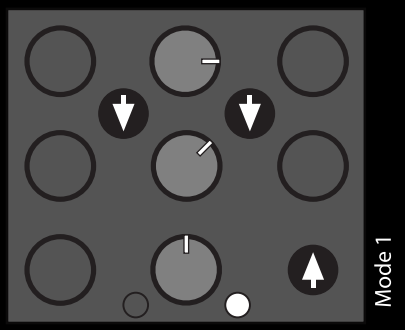
Monophonic synth style distorsion



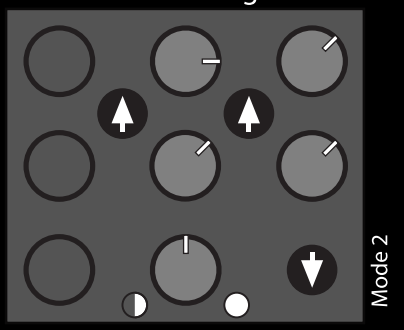
Super square monophonich distorsion



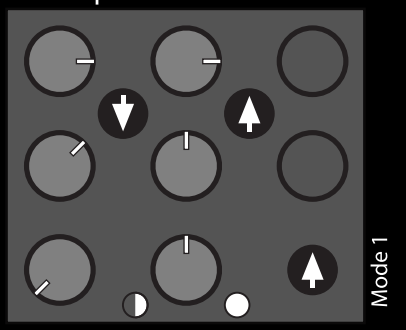
Thick fuzz



Filtered fuzz with momentary insertions of the high octave

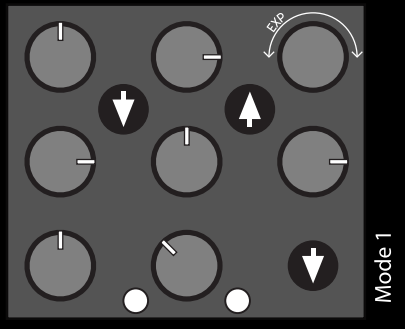


Fat fuzz with low octave quick insertions

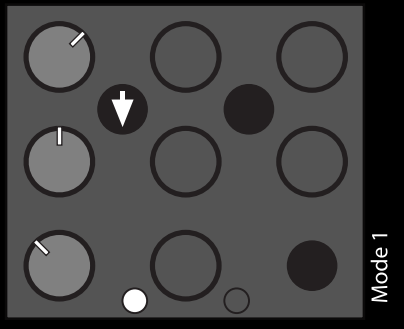


SETTINGS - FOR KEYBOARD / SYNTH

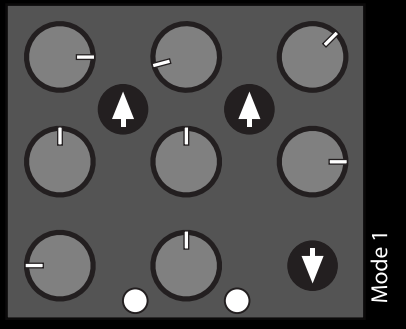
Lead for keyboard with ladder filter



Piano bass



Soft lead for keyboard with static cutoff



Note: ◑ use momentary bypass function