

## BAKFRAM

BAKFRAM is a granular synthesizer masquerading as a forward and reverse delay. It can delay stuff, timestretch stuff, freeze stuff, pitch stuff upwards, pitch stuff downwards and generally make lots of narly noises.

- LEVEL** Master volume. Unity gain is around noon. Max gain is +16dB.
- MIX** Dry/Wet mixer.
- MOD** Random tape flutter modulation depth. Only applied to the wet signal.
- TIME/  
STRETCH** Delay time and time stretch parameter. From full ccw to noon increases the delay time. Cw from noon the pedal will perform timestretching. At the max position the audio playback speed is frozen. The memory buffer size range depends on the CLK parameter.
- LOOP/  
REGEN** Decay parameter. At noon there's no regeneration. Increasing cw adds non-destructive looping feedback. At max audio is repeated indefinitely. With looping feedback the modulation and octave effects will not be regenerated, meaning you'll stay at the same modulation depth and pitch at every repeat cycle. Decreasing ccw from noon adds destructive direct feedback. This will regenerate the granulation, modulation and octave of the wet signal. Engaging the left footswitch will maximize the parameter.
- CLK** Digital signal processor system clock frequency. From approximately 12kHz to 50kHz. Sets the sampling rate, grain size, modulation speed and delay buffer length. The buffer length varies from approximately 2700 to 650 ms (ccw → cw). In addition any audio currently being processed will have its pitch shifted. Cw rotation shifts the pitch upwards. Very low clock settings will produce some noise on the wet signal path.
- DIRECTION** Select between forward and reverse granular delay/stretch. Note that this is not a true reverse delay, but an effect where the grains of audio can be arranged in reverse. The pedal is not intended to sound like a true reverse delay. To change the direction hold down the bypass switch, turn the CLK knob from noon to min, then release the bypass switch.
- OCTAVE** Select between -1, regular and +1 octave pitch shifting as well as two glitchy bonus programs. The bonus programs do their own thing which won't be detailed in this manual. Watch the demovideo! To change octave hold down the bypass switch, turn the CLK knob from noon to max, then release the bypass switch.
- FOOTSWITCHES** Right switch is the bypass, left is the LOOP parameter maximizer. Holding down either switch for more than 500ms will only momentarily change their state.

## TECHNICAL DATA

Voltage	9VDC center negative. No battery operation.
Current	100mA
Input Z	1MΩ
Output Z	< 1kΩ
Size	125 x 66 x 60 mm