

LIGHTFOOT LABS: GK2 User's Guide

Thank you for choosing Goatkeeper 2 by Lightfoot Labs.

Waveform Select Knob: Select between 6 built-in waveform shapes and 5 user-defined waveforms.

Depth / Wave Knob: This is a dual function knob. The first is that it functions as a depth adjustment. The second is that it determines the amplitude level when using the Waveshape Record function.

Bypass / RST SEQ Switch: This switches the effect in and out. It will also reset the sequencer to the first active step in the sequence. That is, the first step that's not set to the (>>) position. The top middle LED indicates Bypass status.

Tap Tempo Switch: This sets the LFO rate by measuring time between taps. The range is approximately 200 milliseconds to 6 seconds. Tap twice to set.

DC IN: Use a 9V negative tip (Boss style) power supply. One-spot and Godlyke daisy chain supplies work fine.

VOL Knob: Adjusts the output volume.

LFO OUT: This jack outputs Goatkeeper's LFO as a 0 to 5V control voltage signal.

SYNC IN: Input an audio click track from a sequencer/metronome/drum machine/etc to sync Goatkeeper. The source should be a short "click" type sound. Sounds with long decay or reverb will not work reliably. Adjust the source's volume so that Goatkeeper is locked in Sync (Sync In should over-ride tap tempo and Expression/CV control).

EXPR IN: Expression/ Control Voltage input. Use an expression pedal with Tip-Ring-Sleeve plug or Control Voltage from 0 to 5V to control Goatkeeper's LFO rate.

Using the Waveshape Record Function

The Waveshape Record function allows for the user to create and store an LFO waveform in each of the A - E positions of the Waveform Select Knob. Once the function has been initiated by pressing and holding both the Bypass and Tap Tempo switches, the Bypass Status LED will start to flash, indicating the mode has been entered. At this point, moving either the Depth knob or Expression input will select it as the recording source. When ready to record the waveshape, press and hold the Bypass switch. Movements will be recorded as the amplitude of the waveform. Recording ends when the Bypass switch is no longer depressed, or after approximately 6 seconds.

Use the flashing LED to help time the waveshape. Try to keep your created waveforms fairly simple. A complex waveform will be distinguishable only at slow LFO speeds. If using an expression pedal to record waveshapes, press the Tap Tempo switch after Waveshape Record has been armed with the expression pedal in the max position. This will calibrate so that the pedal's maximum position corresponds to maximum amplitude. This calibration is lost when Goatkeeper is powered off.

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Time Division/Sequence Knobs:

Skip the current step and go to the next (>>)

Multiply the LFO's rate by the number specified (1 through 16)

Full amplitude (F), Minimum amplitude (M)

