



PROTON is an optically-controlled analog envelope filter. Think of it like a tone knob with a resonant peak at the cutoff frequency that sweeps through its range in response to your playing dynamics. It's an expressive effect that you have to play like an instrument. MK4 incorporates an original detector circuit which tracks your instrument more accurately and musically than classic designs. The controls are interactive to an extent. Turn them and see for yourself.

GAIN adjusts the gain of the detector circuit, effectively controlling how sensitive the circuit is to your instrument signal. *This is the most important control on the pedal.*

Start all the way down and turn it up while playing until you find a response you like. Gain placed upstream in the signal chain will affect the response of the detector circuit.

DECAY adjusts the speed at which the filter closes after the input signal falls below the threshold of the detector. Longer settings allow the filter to stay open during passages of notes, while short settings will make the filter try to close around every note.

POWER 9V DC // 33mA // 2.1mm center-negative connector.

INPUT IMPEDANCE very high.

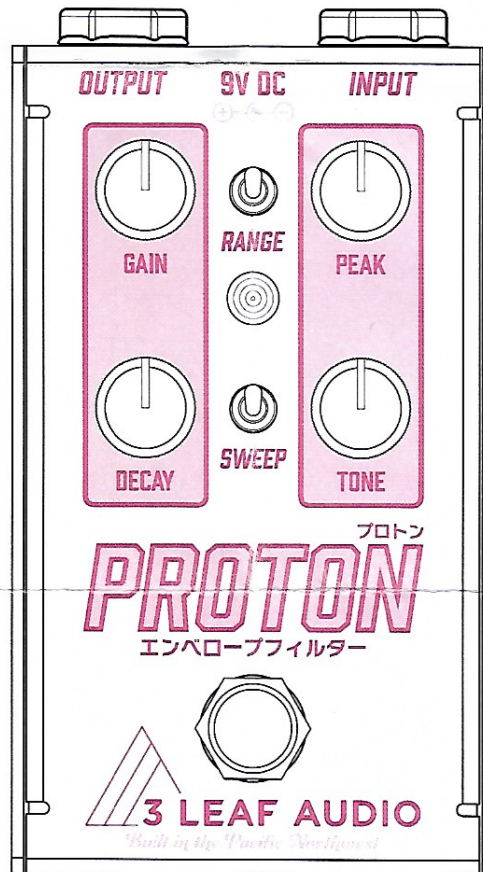
OUTPUT IMPEDANCE very low.

BYPASS transparent active bypass system with proprietary electronic switching. No clicks, no pops, will never break.

FOOTPRINT 64 mm x 118 mm

TOOLS #2 Phillips driver, 1/16" hex driver, 10mm // 14mm // 15mm deep sockets

WARRANTY PROTON is guaranteed to the original purchaser for a period of one year.



PEAK adjusts the amplitude of the filter's resonant peak. The higher you set it, the more prominent the filter will sound.

TONE adjusts the maximum cutoff frequency of the filter.

RANGE toggles the minimum cutoff frequency of the filter.

SWEEP toggles the direction of the filter. When you change the direction, you may have to adjust other controls to compensate for the change in behavior.

PROTON before distortion is psychedelic. The filter peak will move underneath the distortion and cause it to saturate at different frequencies. After distortion is more of a synthy sound where you predominantly hear the filter sweeping around the harmonics of the distortion.

PROTON is made in the USA.

PCB Fabrication ////////////////////////////////// UTAH
PCB Assembly ////////////////////////////////// WASHINGTON
Enclosure Fabrication ////////////////////////////////// OREGON
Screen Printing ////////////////////////////////// WASHINGTON

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