



Proton Envelope Filter

Built in Seattle, Washington, USA

Thanks for purchasing the Proton envelope filter! Version 2 of the Proton features the same classic sound as the original, but adds a decay control, soft-touch relay true bypass, and it comes in a new custom enclosure. The Proton is designed to get a great sound without having to fiddle around with the controls, but you might find some helpful info here.

Power

Use a 9-18v DC power supply with a 2.1 center-negative (Boss-style) plug. The Proton will draw up to 25mA of current. The Proton is protected internally against AC and reverse polarity supplies. Don't use more than 18 volts!

Controls

Gain

Controls how sensitive the filter is to your playing dynamics. If the gain control is all the way counter clockwise, the filter won't open at all. Start there and turn it up until you reach the desired tone and response. The gain control is very powerful; where it is set will affect the filter's attack and decay speeds, as well as the overall brightness.

Peak

Controls the resonance, or wetness, of the filter. Everything up to 12 o'clock is on the subtle side. For the classic 70's filter sound, set it between 12 and 3 o'clock. Anything past 3 o'clock is extra juicy and contains harsh resonant peaks, so use caution.

Range

Controls the frequency range of the filter sweep. The up position is a brighter, more focused sound. The down position is a thick, juicy sound with a deep sweep.

Decay

The speed the filter closes as your note decays. Set around 3 o'clock for a Mutron-like decay. Set around 12 o'clock for a faster, more bubbly decay that grabs every note.

Sweep

Controls the direction of the filter's sweep. In the up position, the filter sweeps normally. In the down position, the sweep is reversed. You may find that the down sweep works best with the gain control cranked up a bit.

WARNING: In certain settings, the Proton can put out very loud resonant peaks that can blow speakers. This is especially true if you crank up the peak control and set the range and sweep switches to the down position. Use caution and start with your amp volume low when dialing in your settings.

Warranty

Your Proton is guaranteed against defects for one year. The warranty covers the pedal under normal use, not abuse. If you need to send your pedal in for repair, shoot me an email.

You can always reach me at
spencer@3leafaudio.com