

GR2 Envelope Filter

Introducing the new GR2 envelope filter, the latest incarnation of the fattest, funkiest envelope filter ever created. The GR2 is a powerful and versatile effects pedal - to get the most out of it, please take some time to read this instruction manual.

Controls

For the purposes of this manual, a lower setting refers to a counter-clockwise turn, and a higher setting refers to a clockwise turn.

Sensitivity

This controls the sensitivity of the filter. This should be adjusted based on the output of your instrument. Set sensitivity lower for high-output instruments and higher for low-output instruments. The sensitivity knob works best when the volume control on your instrument is at full volume.

Attack

This controls the initial response of the filter. Start with it at the minimum position and turn clockwise until the desired sound is reached.

Decay

This controls the time it takes for the filter to sweep the note. Higher settings develop long, sweeping envelope sounds, while lower settings develop shorter, more "bubbly" envelope sounds. Decay should be set higher than attack so that the filter can sweep effectively.

Tone

This controls the maximum cutoff frequency of the filter. It works like the tone knob of a guitar or bass. Higher settings will accentuate the treble frequencies; lower settings increase the filter's warmth.

Wet/Dry Blend

Controls the wet/dry mix. Try blending in some of the clean (dry) signal to achieve subtle new sounds.

Range

This controls the frequency range of the filter. The default position is **HI** which works well on guitar and bass. For users that want the fattest low-end sound, the **LO** setting is recommended.

WARNING: The **LO** position of the range switch puts out frequencies so thick and juicy that it is possible to blow speakers. Please start with the volume on your amp low and turn up until reaching the desired volume.

Sweep

This 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 need to change the settings of the attack and decay knobs; settings that work in the **UP** position won't always work well in the **DOWN** position.



Power

The GR2 can be powered by an internal 9v alkaline battery or with a 9-18v DC adapter. Make sure that the plug is the 2.1mm center-negative (Boss-style) type. Use of an improper adapter will void your warranty. Insertion of an adapter plug disconnects the circuit to the internal 9v battery so that it won't be drained when using an adapter.

Jacks

Plug your instrument into the **IN** jack and your amp into the **OUT** jack.

The FX loop send and return jacks can be used to trigger other effects with the GR2. Run a cable from **FX SEND** to the input of an effect, and run another cable from the output of that effect to **FX RETURN**. If the pedal in the FX loop is left on, it will turn on and off with the GR2. The GR2 is still triggered by the signal coming through the **IN** jack, but the filter affects the signal coming through the **FX RETURN** jack.

The FX loop can also be used with external triggers. If you plug your instrument into **FX RETURN**, then whatever is plugged into the **IN** jack will trigger the filter. You can use anything as an external trigger; the possibilities are limited only by your imagination.

Warranty

Your GR2 is guaranteed against defects for one year. The warranty covers the pedal under normal use, not abuse. If you damage your pedal, repair will be the cost of parts plus shipping. If you need to send your pedal in for repair, shoot me an email.

Specifications

Size	4.7 x 3.9 x 2.2 inches (12 x 10 x 5.5 cm)
Weight	14.3 oz (406 g)
Power Requirements	9-18v DC, 25mA max.
Battery Life	15 - 20 hours
Bypass	True/Buffered
Circuit	100% Analog
Handbuilt in Seattle, Washington, USA	

Got questions or comments? Email me!
spencer@3leafaudio.com

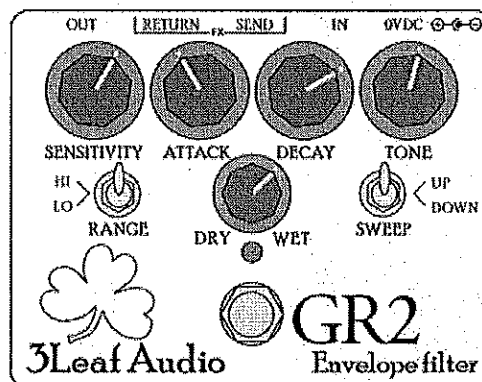
Internal Controls

The lowpass/bandpass switch sets the filter type. Lowpass is a deep, full sound that retains all your low end. Bandpass is a more aggressive sound that cuts through the mix and loses your low end. Bandpass sounds great with some dry signal blended in.

The RES+/RES- switch is the equivalent of the feedback switch on the original model. RES+ produces a wetter, more resonant sound, while RES- produces a more subtle sound.

The gain trimpot can be used to get more volume out of the filter. Fully counter-clockwise is unity gain, and fully clockwise gives about 6dB of gain.

The true/buffered bypass switch switches between true bypass and buffered bypass. True bypass connects the input to the output for the purest possible signal path. Buffered bypass routes the bypassed signal through an input buffer, good for driving long cable runs and eliminating the true bypass pop. **When the pedal is set to buffered bypass, the effects loop will still be active when the GR2 is bypassed.**



Have fun!

Spencer Doren / 3Leaf Audio