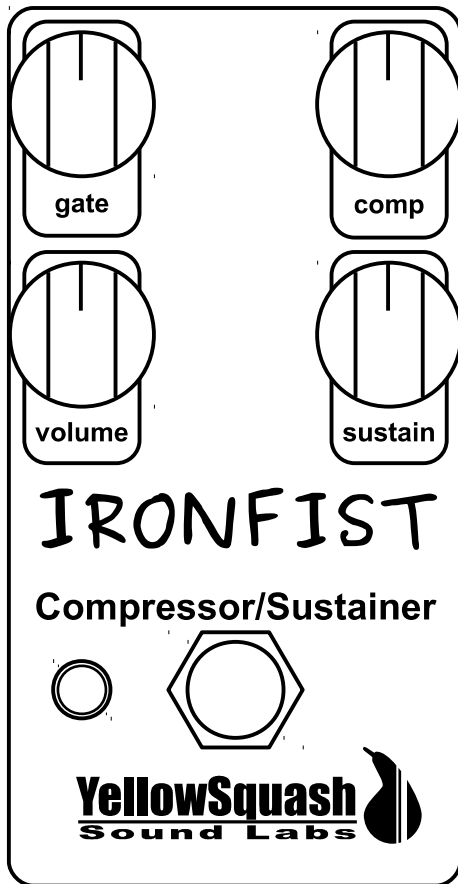


USER'S GUIDE

YELLOW SQUASH SOUND LABS IRONFIST COMPRESSOR/SUSTAINER



DESCRIPTION

IronFist is a 4-knob compressor/sustainer pedal with a built-in noise gate. It works by making loud notes quieter (compression), and quiet notes louder (sustain) without changing the original tone or adding any distortion. Additionally, the noise gate circuit eliminates any sounds that are quieter than the set

threshold. This can be useful for reducing or eliminating the power grid hum, and hiss. It also comes with a true-bypass switch to ensure that the signal passes through unaffected as if the pedal were completely taken out of the signal chain when disengaged. It can be used with both clean and overdriven sounds and in combination with other pedals.

USAGE

To take advantage of the built-in noise gate feature, the general recommendation is to place IronFist after the biggest noise contributors in your signal chain, but before any gain stages (overdrive, fuzz, distortion, etc) which tend to make any input noise much worse. For example, if most of the noise comes from the guitar (hum or hiss), make IronFist the first pedal in your chain. This will make sure that the rest of the chain gets a much cleaner signal. Likewise, if you have a clean but noisy pedal early in your signal path, put IronFist behind it to suppress the added noise.

The general recommendation for the compression/sustain feature is to feed a clean signal into the pedal to make sure that the playing dynamics is correctly detected. Overdriven signals are not well suited as input as they are naturally compressed and may reduce IronFirst's effectiveness.

INTERNALS

The IronFist pedal uses a specialized audio circuit with a wide dynamic range in excess of 100dB which coupled with a true RMS detector allows it to achieve huge amounts of sustain and to quickly and precisely respond to volume changes without any lag. Thanks to its low total

harmonic distortion and wide and flat frequency response the guitar sound is unchanged. In addition, it features a noise gate control with a soft knee characteristic that simply fades out naturally without any popping or switching. True bypass is achieved with a relay controlled by a quiet momentary switch. It is powered by a 9 V battery (not included) or a center-negative 9-12 V power supply (not included).

CONTROLS

Volume: Controls the output signal level.

Gate: Controls the noise gate. Turn clock-wise to reduce or eliminate hum and hiss. Find the right balance as too little will let the noise through, but too much will choke off the useful signal.

Sustain: Controls how much the quiet notes are amplified, effectively making notes play longer.

Comp: (Compression) Controls how much the note attack is squashed.

SPECIFICATIONS

Dimensions (W x L x H) : 5 x 2.75 x 2.25 in

Supply voltage: 9-12 V

Current draw: 25 mA (engaged)
1 mA (bypassed)

Input impedance: 680 k Ω @1 kHz

Output impedance: \leq 12.5 k Ω @1 kHz