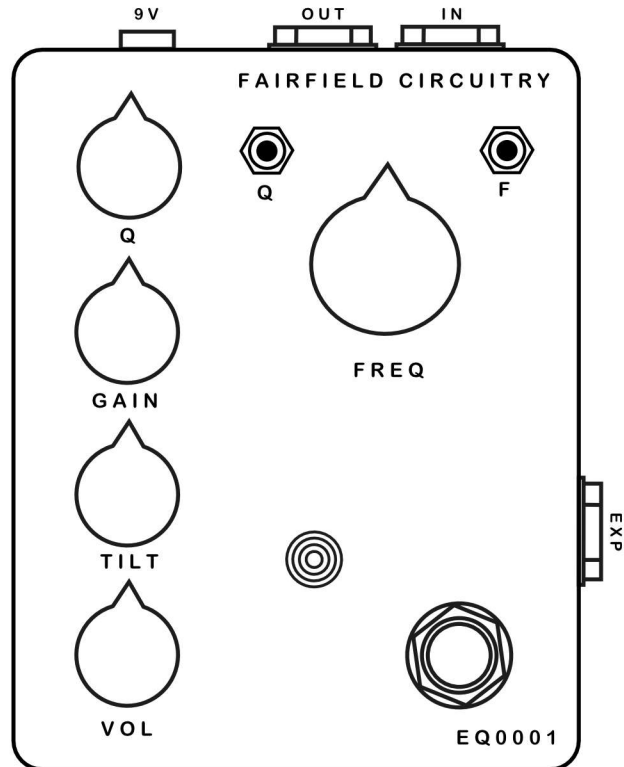


LONG LIFE

Parametric EQ
w/ tilt & CV



long life
the wild pines want it too

-Ikkyu

CONTROLS

FREQ

Corner frequency of filter. Summed with CV F input and expression input.
Frequency range without external control - 8Hz - 6kHz

Q

Quality factor or resonance control. Before noon for softer equalization.
Aggressive past noon. Self oscillates past 3 o'clock. Summed with CV Q input.

GAIN

Negative and positive gain of bandpass filter section allows for notch or boost of selected frequency (FREQ).

TILT

Frequency response can be tilted around the center frequency. At one extreme, a low-pass response; at the other, high-pass. At noon, the response is flat. In between these points, various degrees of flat. In between these points, various degrees of shelving.

VOL

Unity gain is around 2 o'clock for a flat frequency response.

CONNECTIONS

IN

1/4" Instrument or line level input

OUT

1/4" Output

EXP

TRS expression pedal input or TS alternate CV input to control center frequency

Q and F

1/8" control voltage (CV) inputs for Q and F with V/octave scaling on frequency.

9V

2.1mm 9VDC center-negative tip, at least 150mA

Caution should be exercised when pushing high-Q settings. Strong oscillations will occur.

It is normal to get some hiss, even slight clicks, when the corner frequency is past 2 kHz (~2 o'clock).

PRINCIPLE OF OPERATION

A state-variable filter with wide range and application. Versatile. Combining tilt and notch/boost equalization around a 2nd-order (-12dB/octave) state-variable core.

Very much a one-band parametric equalizer with gritty extras:

- Shelving filter, from low-pass to high-pass
- CV inputs for resonance (Q) and frequency (F)
- V/octave scaling synthesizer interface
- Fully variable Q goes well into tasty sweet self-oscillations
- Soft clip zener zesty mordant
- Expression pedal input controls center frequency

USES

- Flexible tone stack allowing for careful tuning of desired response
- Stacking before/after other pedals for dramatic emphasis/deemphasis
- With an expression pedal for wah-type debaucherie
- Standalone channel strip EQ for outboard processing
- Integrated with a modular synthesizer mindset, can act as a VCF and a VCO
- With external CV control such as sequencers and keyboards

TECHNICALS

- true bypass
- dimensions 4.7" x 3.8" x 1.9"
- input impedance 1M Ω
- output impedance <5k Ω
- power supply 5 to 15 VDC
- current draw 150mA @ 9.6VDC
115mA @ 12VDC
100mA @ 15VDC

NOTES ON POWERING

Long Life was designed to operate using your typical centre negative, regulated 9 VDC power supply but can safely be operated from 5VDC to 15VDC. The pedal is protected against reversed polarity conditions.

Always check your power supply for proper voltage and polarity before connecting. There is no battery connection inside the pedal.

EXTENDED WARRANTY

Fairfield Circuitry will repair or replace any malfunctioning product for a period of 2 years after purchase date. Problems resulting from modifications or misuse may cancel this warranty. The owner will cover all shipping expenses.

In short, the best thing to do is to contact us as soon as possible with a description of the symptoms, even if the warranty is expired.

POSSIBLE RESPONSES

(6dB/div; 20Hz-20kHz, markers at 100Hz, 1kHz, 10kHz)

