



Diamond

BASS COMP/EQ

OPERATING INSTRUCTIONS



CONNECT WITH US

WEB: www.diamondpedals.com

E-MAIL: hello@diamondpedals.com

SOCIALS: [@diamondpedals](https://www.instagram.com/diamondpedals)

Sought out by musicians for almost two decades, the Diamond Compressor is the magical yellow box that started it all. This next generation Diamond BASS COMP/EQ maintains the classic circuit architecture while increasing range and functionality. In addition to providing smooth, optical compression, the Diamond BASS COMP/EQ is armed with our classic Tilt-EQ tone control with three selectable fulcrum frequencies and an active 10dB Mid Boost/Cut circuit. Relay based, soft-touch, true bypass switching, Bi-Colour LED indication and 9-18VDC operation complete the package.

Place the BASS COMP/EQ either as the first pedal in your effects chain or very close to first for a traditional compression effect. Place it at the end of your chain and it will act as a limiter. The BASS COMP/EQ can also be used as a boost or tone shaping tool placed before or after drives and fuzzes with the COMP knob turned down low. Switch it on to even out your tone, add sustain, increase gain or carefully sculpt and EQ your signal, the Diamond COMP/EQ is the perfect mastering solution for your pedalboard.

Diamond COMP|EQ Specifications

Input Impedance: > 1M Ω

Output Impedance: < 10K Ω

Switching: Relay True Bypass

Power Requirement: 9-18 VDC, negative tip, 2.1 mm barrel jack.

Current Draw @ 9 VDC: 22mA

Tilt EQ Fulcrum Frequency: 250 || 500 || 900 Hz +/- 6 dB

Mid EQ Center Frequency: 500 Hz +/- 10 dB

Dimensions: 122 x 66.98 x 39.64 mm (4.8 x 2.64 x 1.58")

Weight: 280 g

Made In Canada

THE USE OF AN IMPROPER POWER SUPPLY WILL VOID THE WARRANTY.

BASS COMP/EQ CONTROLS

OUTPUT JACK

Send audio to your amplifier or next pedal from here.

POWER INPUT

Connect your 2.1mm, negative tip, 9-18V, DC, power source here.
Current Draw: 22mA

INPUT JACK

Send audio from your instrument to here.

LEVEL KNOB

Sets output level.
Note: Adjust the compression and EQ knobs prior to using this knob to dial in your sound and then adjust the overall output level.

COMPRESSION KNOB

Sets the amount of compression applied to the audio. Backing off gives just a touch of compression on signal peaks, while turning it up increases the amount of signal squash.

Note: The level at which compression begins to take effect, compression threshold, is sensitive to input signal variations such as pickups and pick attack. Experiment with this control to dial it in to suit your particular style.

MIDS KNOB

Cuts or boosts the midrange frequency with a flat response at the center detent position.

LEVEL
COMP

MIDS
TILT

TILT FREQ
250|900|500

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TILT FREQUENCY SWITCH

Selects the TILT EQ's fulcrum frequency.

Up - 250Hz | Down - 500Hz
Center - 900Hz

TILT EQ KNOB

Sets the overall spectral tilt pivoted around a fulcrum frequency selected by the toggle switch. This filter essentially acts as a seesaw that can be tipped to raise the low end and cut high end or raise high end and cut low end centered at this fulcrum frequency.

BI-COLOUR LED INDICATOR

A glowing red colour indicates the pedal is on. The yellow colour indicates increasing levels of compression on the instrument signal.

BYPASS SWITCH

Sets the pedal into bypass or in-circuit operation using a silent, soft touch, relay based, true bypass switching system.

Center detent - flat
CCW - darker | CW - brighter

OPTICAL COMPRESSION

Optical isolator based compression has been a desired form of compression in professional recording studios for decades. The optical isolator works by shining an LED, with brightness proportional to signal strength onto a variable resistance photocell to reduce gain. The photocell itself has finite attack and decay characteristics for its resistance, in the order of milliseconds, which turns out to be about the right time lags to provide smooth gain adjustments and allows just the right amount of initial signal transients through to permit the compressed signal to breathe.



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