



COMP EQ

INSTRUCTION MANUAL

A LEGEND REBORN

Sought out by musicians for almost two decades since its initial release, the **Diamond COMPRESSOR** is the magical yellow box that started it all.

This next generation Diamond **COMP/EQ** maintains the classic circuit architecture while increasing range and functionality.

In addition to providing smooth, optical compression, the Diamond **COMP/EQ** features our classic **TILT-EQ** tone control and an active **MID BOOST/CUT** circuit set at the Tilt's center frequency.

A new **ATTACK** toggle provides the original Diamond snappy response or a softer, more transparent compressor feel. Relay based, soft-touch true bypass switching, bi-color LED indication and 9-18V_{DC} operation complete the package.



FEATURE SET

SIGNATURE COMPRESSION

Rather than mess with perfection, the Diamond **COMP/EQ** augments the original yellow box design with a new **MIDS BOOST/CUT** control, **ATTACK** switch, custom spec'd, US-made opto-isolators and modern, quiet switching.

PEDALBOARD MASTERING

Combining silky smooth, natural optical compression with our signature hi-fi inspired, center-detent active **TILT EQ** and **MID BOOST/CUT** control, the **COMP/EQ** is a mastering solution for your effects chain—one you might never turn off.

THE NEW STANDARD

For the modern pedal-user's needs. Space-saving design, without any loss of quality. Complete with all analog, Burr-Brown audio path, top-mounted jacks, 9-18V_{DC} operation and relay based true bypass switching.

Place the **COMP/EQ** either as the first pedal in your effects chain or very close to first for a traditional compression effect.

Position it at the end of your chain and it will act as a limiter.

The **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.

FEATURE SET

OUTPUT JACK

Send audio to your amplifier or next pedal 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.

MIDS KNOB

Cuts or boosts the midrange frequency, set at the fulcrum of the TILT EQ (800 Hz), with no cut/boost at the center detent position.

ATTACK TOGGLE SWITCH

Selects the attack response of the compressor.

Click ∇ : original, quick response with a snappier attack.

Click \wedge : slow response with a transparent, less squashed, and longer sustained sound.

BYPASS FOOTSWITCH

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

Connect your 2.1mm, negative tip, 9-18V, DC, power source here.

Current Draw: 17mA

POWER INPUT

INPUT JACK

Send audio from your instrument here.

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 pickup and pick attack. Experiment with this control to dial it in to suit your particular style.



ATTACK



Diamond
COMP/EQ

TILT EQ KNOB

Sets the overall spectral tilt pivoted around a fulcrum frequency in the midrange (800 Hz). 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.

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 curve, 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.

WARRANTY

All Diamond product(s) purchased through the diamondpedals.com website or an authorized Diamond retailer comes with a three (3) year warranty against failure resulting from defective parts, and/or faulty workmanship. Cosmetic flaws or issues related to wear and tear are not covered.

The warranty applies only to the original purchaser of the product and is not transferable. Warranty coverage terminates three years after the date of purchase. While a product is under warranty, the product will be repaired free of charge. The owner of the product will be responsible for both shipping to and from Diamond Pedals HQ located in Montreal, Quebec, Canada. Warranty coverage will be automatically canceled should the product be tampered with, modified, damaged through misuse and/or abuse, repaired by an unauthorized third-party, or damaged through failure to follow our operating instructions.

USE OF AN IMPROPER POWER SUPPLY AUTOMATICALLY VOIDS THE WARRANTY.

SPECIFICATIONS

<u>Input Impedance:</u>	> 1 MΩ
<u>Output Impedance:</u>	< 10 KΩ
<u>Switching:</u>	Relay True Bypass
<u>Power Requirement:</u>	9-18V_{DC} negative tip, 2.1mm Barrel Jack
<u>Current Draw @ 9V:</u>	22mA
<u>Current Draw @ 18V:</u>	45mA
<u>Tilt EQ Fulcrum Frequency:</u>	800 Hz +/- 6 dB
<u>Mid EQ Center Frequency:</u>	800 Hz +/- 10 dB
<u>Dimensions:</u>	4.8 x 2.64 x 1.58"
<u>Weight:</u>	280 g



CONNECT WITH US

HELLO@DIAMONDPEDALS.COM

@DIAMONDPEDALS