

## Driving other pedals

The EP+ CUSTOM has much lower output impedance than the EP-PRE. This makes the EP+ CUSTOM capable of driving most other pedals. In spite of this, we don't recommend using it before some of the lower impedance vintage Fuzz pedals because most vintage fuzz pedals rely on direct interaction with guitar pickups.

## Where in the signal chain?

The EP+ CUSTOM in the same position as the EP-PRE, after dirt pedals and before modulation, but we have found that it can be used to push other pedals into overdrive. We have also found that the EP+ CUSTOM can push the preamp section of a tube amp into smooth overdrive tones.

The bottom line is, try the EP+ CUSTOM before and after all of your other pedals and find your own preference. We would love to see everyone's favorite setups on the forums.

Enjoy!

### Warranty

The ClinchFX EP+ CUSTOM is covered against manufacturing defects for a period of one year from date of purchase. At our discretion we will either repair or replace faulty units. We will not accept responsibility for failures in other connected equipment.

Warranty does not cover failures resulting from misuse including, but **not limited to**: Immersion in liquids, physical damage, incorrect power supply, unauthorized modifications, faults in connected equipment, acts of God, etc.

Return shipping and insurance costs shall be the responsibility of the owner.

Should you wish to make a warranty claim, please notify us using the "contact us" page at [www.clinchfx.com](http://www.clinchfx.com) quoting pedal serial number, purchase date, contact details and proof of purchase from ClinchFX or an authorized retailer. We will then contact you to make arrangements for return or replacement. Should we have an authorized service agent in your area, we may direct you to that agent.



# ClinchFX EP+ CUSTOM

## Clean Boost



[www.clinchfx.com](http://www.clinchfx.com)

### Warning

It is the sole responsibility of the user to ensure that this pedal and any associated cables and equipment are used in a manner that will not present a danger to either the user or any other person, in conformance with any applicable health and safety laws. ClinchFX accepts no responsibility for any personal injury or damage of any kind resulting from improper use of this pedal.

## Power Supply

The EP+ CUSTOM is designed to operate from a 9V or 12V DC supply. **Maximum allowed voltage is 12V DC.**

The EP+ CUSTOM has an internal Charge Pump power supply that boosts a 9 Volt supply to around 17.3 Volts or a 12 Volt supply to around 23.2 Volts. If the 12 Volt maximum power supply is exceeded, the internal voltage will exceed the ratings of the Charge Pump IC. We have designed in some protection against short term excess voltage, but continued operation from a supply greater than 12 Volts DC will cause the electronics to fail.

## External Power Supply

Power can be supplied from a **9V or 12V DC regulated** power pack with a 2.1mm coaxial plug with negative connected to the centre pin. The power pack should be rated at greater than 20mA. The pedal is protected from reverse power connection by a diode, reverse connected across the positive and negative contacts of the DC jack. If an incorrectly polarized or AC supply is connected, this diode will effectively short circuit the supply, protecting the pedal circuitry from damage. **If an incorrect power supply remains connected, the power supply will be damaged.**

## Battery

I do not recommend powering the EP+ CUSTOM from a battery, but a battery compartment is provided for powering the pedal from a **9V battery**.

To access the battery compartment, peel off the non-slip base, which is attached with genuine Velcro, commercial quality, hook and loop tape. Remove the four screws that hold the bottom of the box in place.



The battery snap is held to the inside of the box with Velcro. Separate the Velcro and attach the snap to the battery. The battery will fit between the switch and the end of the box. The pedal serial number is also located in this area.

Replace the bottom of the box and the non-slip base. **Note:** The bottom of the box has foam rubber on the inside, but the rubber does not cover the area where the battery sits. If the bottom is the wrong way round, it won't fit over the battery.

## EP+ CUSTOM Description

The EP+ CUSTOM is a clean boost that can boost a guitar signal by up to 18db. It has two modes, **EP-PRE Tone Enhancement** at a little above Unity Gain, and **Boost Mode**. In both modes, the EP+ adds that almost intangible magic tone of the famed Echoplex® EP-3®.

We call it the CUSTOM, because we built the first one for a customer who wanted the EP magic always on, with switchable boost.. Like the EP+, the CUSTOM has a second common Source JFET stage to provide the boost and lower output impedance than the EP-PRE. The lower output impedance will allow longer cables between the EP+ CUSTOM and the amp without losing high frequencies.

## Using the EP+ CUSTOM

### Foot Switch

The switch is 3PDT and has gold contacts for reliability.

**Note:** The switch can assume a “half-operated” state if the plunger is bumped during travel and set-up. This is a characteristic of the gold contact mechanism and **not** a fault. Always fully operate the stomp switch once before using the pedal.

### Volume Control

The Volume control works like most volume controls. When fully counter-clockwise, there is no output from the pedal. When fully clockwise, pedal output is maximum.

### PCB Jumper

The EP+ CUSTOM uses the new EP circuit board that allows you to select the tone of either early model EP-3 (S/N 9068 to 9450) or later versions.

When you remove the back cover from the EP+, you will see the rear of the PCB with the jumper fitted to both terminal pins. This will give the tone of the early EP-3.

To get the tone of the later EP-3, remove the DC power plug and/or battery. Gently slide the jumper to the right so that it slides off both pins. Then slide the jumper back on to one pin only in order to prevent losing the jumper, in case you wish to change back to the original EP-3 tone.

Re-connect power or battery, connect your guitar and amp and try the tone.

