Xotic EP PRO

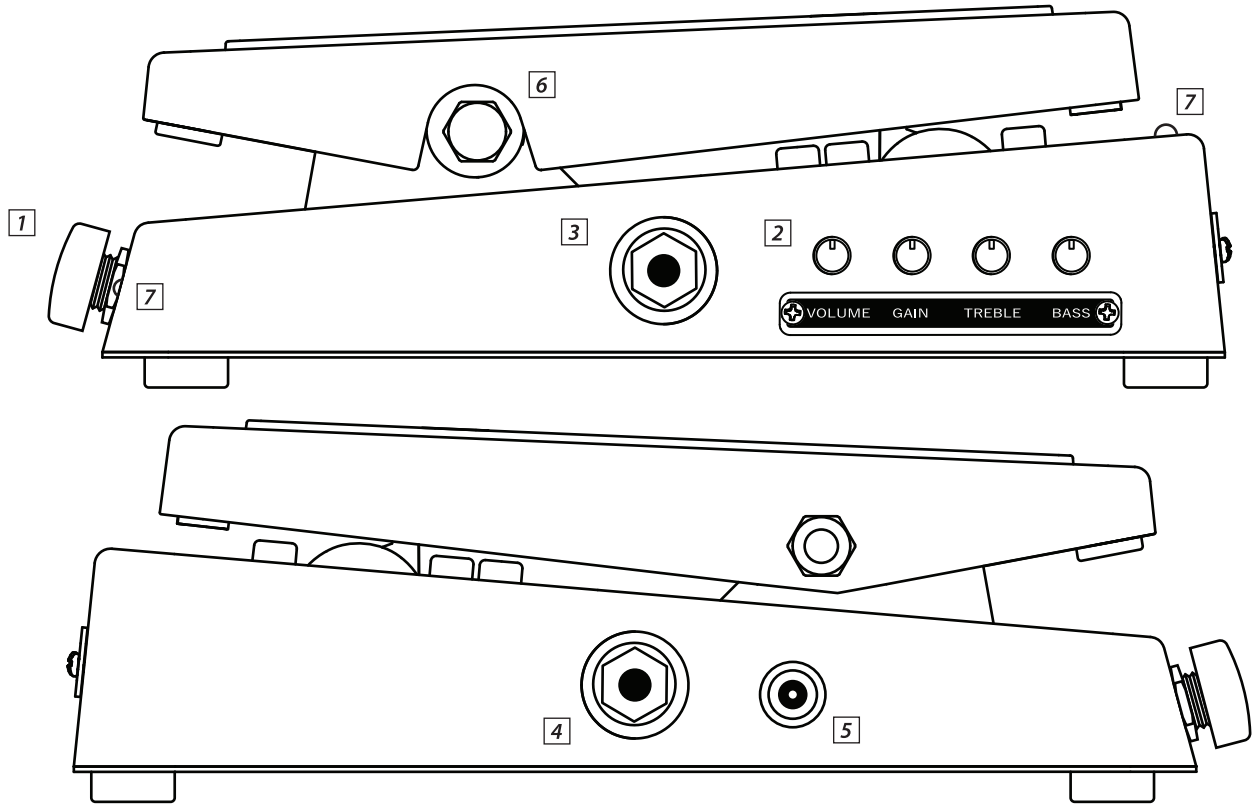
User Manual

The EP Pro is the next evolution of the original EP Booster that debuted back in 2008. Building on the legacy of the Echoplex preamp sound cherished by legendary guitarists like Jimmy Page and Eddie Van Halen, the original EP Booster was loved for its always-on magic: just plug it into your signal chain and instantly get that sweeter, richer tone.
Now, the EP Pro takes that concept to the next level, offering modern players enhanced flexibility and functionality. It's not just a booster anymore—it's a multi-functional preamp and volume pedal that gives you detailed tone-shaping control and versatile volume management. Even in today's rapidly digitizing music production world, the EP Pro adds an analog, organic quality at the front end of your signal chain, preserving and enriching your tone in a natural way. In short, the EP Pro is that always-on tone enhancer you'll want on your board, now with the flexibility to meet the demands of any gig.

Key Features

- *Equipped with a 2-band EQ (Treble/Bass), gain, and volume controls for fine-tuning your sound.*
- *Internal dip switches let you customize the frequency response of treble, mid, and bass to your preference.*
- *Built-in active buffer circuit maintains signal quality even when the boost is off, allowing smooth volume adjustments as an active volume pedal.*
- *Passive volume pedal mode is also available for pure volume control.*
- *Nylon pivot design ensures smooth pedal operation and adjustable torque.*
- *Lightweight yet rugged aluminum chassis for durability without the bulk.*

Component and Mechanical Guide



1. ***BOOST ON/OFF SWITCH :*** *This heavy-duty switch turns the boost on or off. Depending on whether the internal buffer circuit is on or off, this switch lets you toggle between boost and true bypass, or between boost and a buffered bypass signal.*
2. ***CONTROL KNOBS :*** *These controls are used to adjust the boost signal.*
3. ***INPUT JACK :*** *Nominal input -20dB. To preserve battery life, unplug when not in use. Use only a TS plug — The unit is not compatible with TRS plugs. Input Impedance: 500K ohm (Boost / Buffer activated) In true bypass, the signal passes through a 250K potentiometer*
4. ***OUTPUT JACK :*** *Use only a TS plug — The unit is not compatible with TRS plugs. Output Impedance: 2K ohm*
5. ***POWER SUPPLY JACK :*** *Power Consumption: 9VDC/10mA (max) Approx. 40hrs continuous use with alkaline battery Battery Type: 9VDC (006P) x 1 AC Adapter (Optional): 9-18VDC Negative Tips (Regulated Only)*
6. ***TREADLE TORQUE NUT :*** *By tightening this nut with a wrench , you can adjust the torque of the treadle pedal. Tightening it will make the pedal stiffer, and loosening it will allow the pedal to move more lightly and smoothly.*
7. ***STATUS LED :*** *The status LED will illuminate when the boost is activated. If the LED blinks, it indicates that the battery is low and needs to be replaced.*
8. ***DIMENSIONS :*** *Width / Depth / Height : 3.94" x 8.78" x 2.64" (100mm X 223mm X 67mm) Weight: 2.07 lbs. (940g)*

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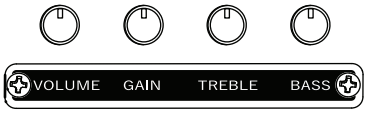
Volume & Gain Controls

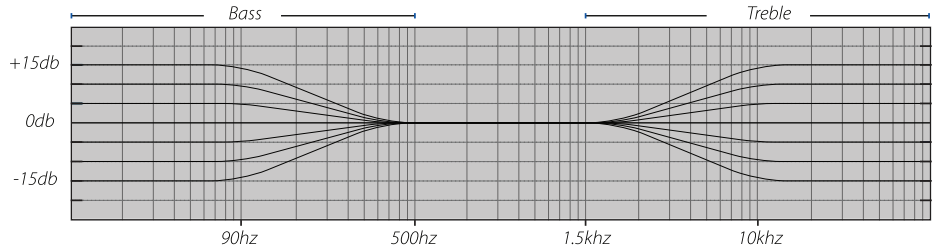
The gain knob provides up to +20 dB of gain, boosted by the EP's unique FET circuit. By using the booster function to increase the gain, you can achieve a more shimmery, sparkly tone. The volume knob then allows you to bring that boosted level back down to a reasonable volume. In addition, having this extra stage of control before the signal hits the volume pedal makes the whole setup even easier to manage.

Treble & Bass EQ



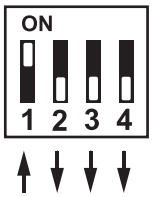
The EQ features a treble adjustment of ±15 dB and a bass adjustment of ±15 dB.
When the EQ knob is set to 12 o'clock, the response is flat — both treble and bass remain neutral at that position.
Boosts frequencies when turned clockwise; cuts when turned counterclockwise.

Treble and Bass Control Range



Internal Dip Switch Settings

DEFAULT SETTINGS



1. *Provides a well balanced, full band boost.*
2. *Provides the same boost and frequency range as the original EP.*
3. *Shelving high-frequency boost emphasizing around 6kHz with a +8dB boost.*
4. *Shelving high-frequency boost emphasizing around 10khz with a +6dB boost.*

Note: *When all the DIP switches are turned off, you'll get the least amount of boost and a slightly mid-focused boosted tone. All dip switches can be used in any combination of on and off settings. Each dip switch description only explains what that individual switch does. When multiple dip switches are turned on, their effects will be combined. When the gain knob is set past 12 o'clock, the effects of DIP switches 3 and 4 become less noticeable.*

DIP Switch Settings

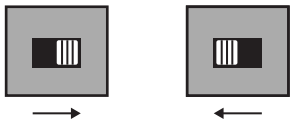
DIP Switch	Mode	Type	Start Frequency	Gain
High-Shelf (3 & 4)	DIP 4	High-Shelf	1.5 kHz	+6 dB
	DIP 3	High-Shelf	1 kHz	+8 dB
	DIP 3 + 4	High-Shelf	900 Hz	+10 dB
Full-Band (1 & 2)	DIP 1	Full Band	-	+6 dB
	DIP 2	Full Band	-	+7 dB
	DIP 1 + 2	Full Band	-	+7.5 dB

Buffered / True Bypass Settings

The internal slide switch allows you to choose whether the signal remains in true bypass mode or is buffered when the pedal is bypassed.

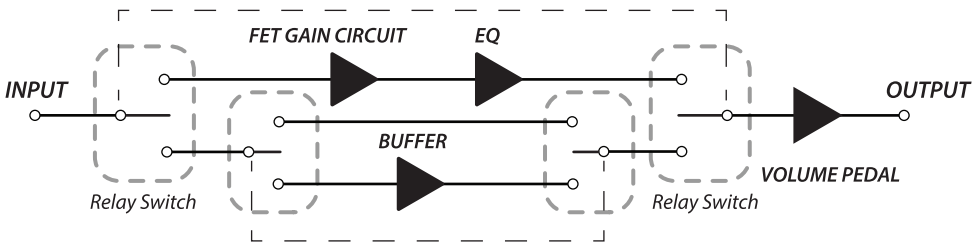
True Bypass: When the switch is set to true bypass, the signal coming from the input passes through as a passive signal, going through a 250k pot and then out to the output. In this mode, when the pedal is bypassed, it effectively functions like a passive volume pedal.

Buffered: When the buffered is selected, the input signal passes through a buffer circuit and then through the 250k pot before going to the output. This occurs when the pedal is in bypass mode.



True Bypass *Buffered*

Circuit Diagram



Xotic Effects
CALIFORNIA
14920 Calvert Street
Van Nuys, CA 91411 USA
support@xotic.us