

Diamond

J - D R I V E

Thanks for purchasing a Diamond J-Drive!

We hope you have as much fun playing guitar through this pedal as we did designing and testing it. Our goal is to provide new twists on classic drive tone, and to make it just plain fun to play. The J-Drive is a cool pedal - independently switchable clean boost and overdrive functionality that lets you use the clean boost section as a lead gain stage when the pedal is in overdrive.

Remember to protect your hearing and wear appropriate hearing protection when playing loud...

Design Features

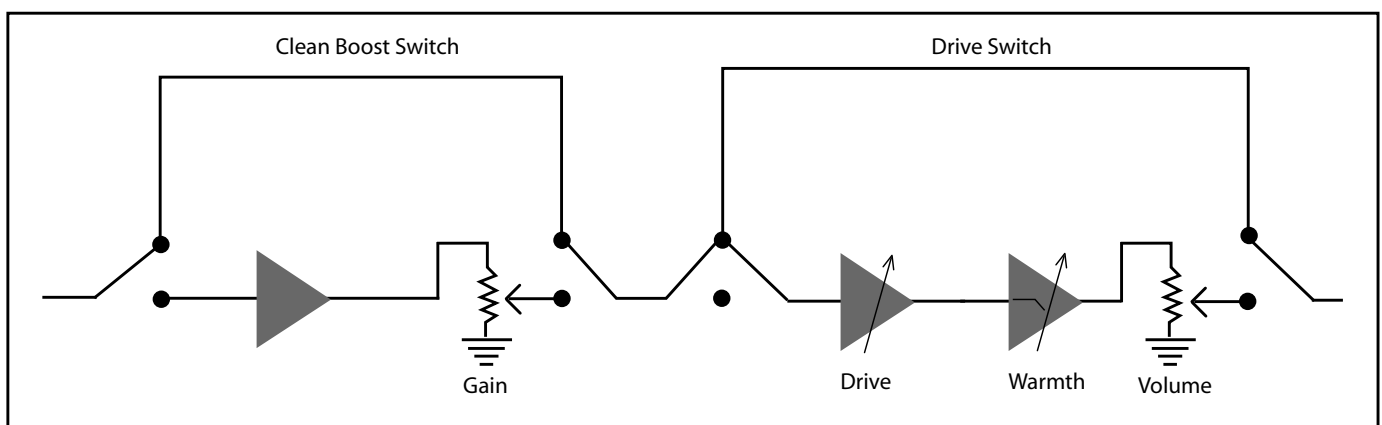
True bypass signal path

Dual function clean boost / lead boost as a separately switchable gain section

3-transistor discrete clean boost stage with high impedance JFET input, BJT gain and class A output stage

Premium audio components, including 2% polypropylene capacitors and 1% metal film resistors.

Warmth control - replaces the traditional fixed frequency cut/boost circuit with a variable high-frequency cutoff filter coupled with variable low-frequency gain.



Switchable Diamond Drive signature raw compression or conventional overdrive compression/sustain.

Battery or standard negative tip 9V DC adapter operation.

Controls

Drive

This controls the basic overdrive level. Backing it off gives a mild and controlled overdrive sound, while opening it up gives more of a straight ahead distortion. Pickup output levels will also impact the drive level - humbuckers generally will more easily push the drive and your amp into distortion.

Warmth

The tone control, as mentioned previously, is not a typical fixed frequency cut/boost circuit. The warmth control acts as a low-pass filter coupled with gain boost as the cut off frequency drops. This certainly adds a different flavor to the feel of the overdrive than traditional overdrive circuits. Moving the dial clockwise moves the filter cutoff point lower, darkening the signal, but at the same time increasing gain, potentially adding more harmonics depending on the signal and level.

Volume

This adjusts the overall output volume of the drive section (and of the overall box if both clean boost and drive are enable simultaneously).

Gain

This adjusts the gain of the clean boost section. If only the clean boost section is enabled, this is the only control that effects its operation. If both drive and clean stages are enabled, this control then becomes an extra gain section into the overdrive circuit for lead tones.

There are many different interesting combinations of drive, lead and warmth settings. You'll get great tone with everything set to 12 o'clock, but it's worth taking some time to explore the different settings and interplay between the controls.

Switches

Drive

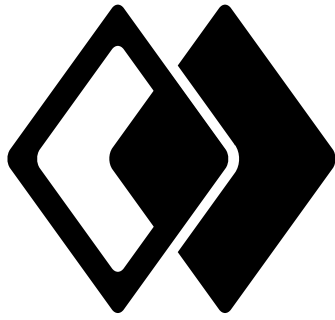
This switches the overdrive section in and out. An orange LED indicates the drive circuit in on.

Boost

This switches the clean boost section in and out. A green LED indicates the clean boost section is on.

Compression

A small unlabeled switch on the front facing edge, past the Warmth and Volume controls, gives two settings of compression and sustain. The up position of the switch is a more traditional overdrive setting, with lots of smooth compression, while the down position has a more raw sound. We've found the up position sounds best for Marshall-style mid-gain amplifiers, but the best thing to do is experiment to find the best setting for your particular guitar/amp setup.



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Powering

Changing the battery

Changing the standard 9V battery first requires the removal of the four back corner screws of the pedal. The battery clip is attached to the inside of the back plate - gently pull the back plate off so as not to strain the connecting wires between the battery clip and main circuit board. After replacing the battery, carefully place any slack in the connecting wires into the box cavity, and replace the back plate with the four screws, taking care not to pinch the connecting wires.

Using a 9V adapter

Any standard 9V DC negative pin AC adapter for effect pedals can be used to power the Diamond Drive. The insertion of the AC adapter plug automatically removes the internal battery from the circuit.

Warranty

Diamond Pedals carry a full five year warranty on registered products - make sure to send us your warranty card! The warranty is simple - if you have a problem, call us, send us the pedal if necessary, and we'll make it right.