

Subdecay Studios – Blackstar-Distortion
Your Blackstar pedal was hand made in Dundee, OR with high quality components. Thank you for purchasing The Subdecay Blackstar.

Features:
Die cast metal enclosure for durability. 3PDT switches for true bypass switching. Powered by a 9 volt battery, or can be powered by a regulated 9VDC adapter with a 2.1 mm negative center barrel plug. 3 stage fet based distortion circuit for an amp like tone rich in even harmonics. Controls: Drive, Tone, Volume, Volume. Blue LED indicator.

Explanation:
The Blackstar essentially starts off where the Subdecay Liquid Sunshine stops. The idea was inspired by running a mosfet booster pedal straight in to a Liquid sunshine pedal.

This was more or less a starting point. A few things had to be changed to give the effect the versatility to work with a wide range of amplifiers, and guitars.

The input stage is basically a mosfet booster with the gain knob all the way up. The input is very reactive to different types of guitar pickups, volume and tone controls. For the most versatility it is recommended that the blackstar be the first pedal in the signal chain or preceded by true bypass pedals.

From there the signal goes to the lower drive knob, essentially controlling the gain of the lower frequencies. This is a little different than the liquid sunshine, and was necessary since lower frequencies can be overly emphasized in high gain circuits, and low end response of guitar pickups can vary widely.

The signal from the lower drive knob then goes to the two jfet gain stages. The upper drive knob increases the overall gain of these two stages through a feedback network. The feedback network is a significant change from the liquid sunshine circuit, and allows for different flavors of distortion rather than a simple altered frequency response. Originally this knob was to be labeled "saturation" but it wouldn't fit in the graphics of the pedal. Turned to the right, not only is overall gain increased, but some compression is added as well.

The tone control is the most the most obvious addition from the Liquid Sunshine Design. This was essential to make the Blackstar work with well with a wide range of guitar amps as well. Combo amps tend to favor the tone control to the left. Stack style amps tend to favor the tone control to the right.

From there the signal goes straight to the passive volume control, and then to the effect output.

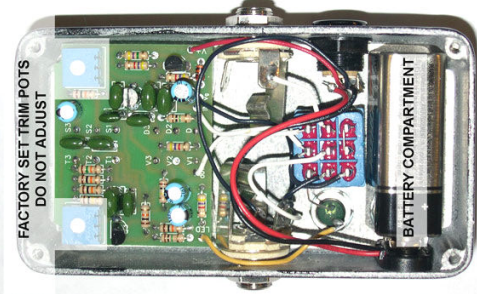
Warranty:
Subdecay Studios offers a 3 year, limited warranty from the purchase date to the original purchaser. This warranty does not cover misuse, or the neglect by the user. It also does not cover the finish, paint, or any exterior, or superficial damage. Any unauthorized repairs will void warranty. Subdecay Studios, Inc. will assume NO LIABILITY for this product.

Note:
When using a battery always unplug the instrument input to conserve battery life. When a cable is plugged in the pedal is always on even when bypassed.

To change the battery you must first remove the 4 rear screws and the rear cover. The battery should be placed next to the switch in the battery compartment. The battery should be able to slide in and out with out any friction. If the battery needs to be forced in to place, it could damage the switch, or other hardware.

About your Blackstar:
Power:
The Blackstar can be powered by standard 9 volt battery, or by a dedicated Class 2 regulated 9 volt DC power supply with a negative center 2.1mm barrel type plug.
Specifications:
Input impedance: 1 M
Output Impedance: Varies with volume setting from 10K to 50K
RoHS compliant
Current draw is less than 10mA.

Operation and Care:
Keep away from extreme heat, cold and moisture.
Use only a dry towel to clean.
No user serviceable parts. Contact Subdecay Studios, Inc. for repair or maintenance.



SUBDECAY

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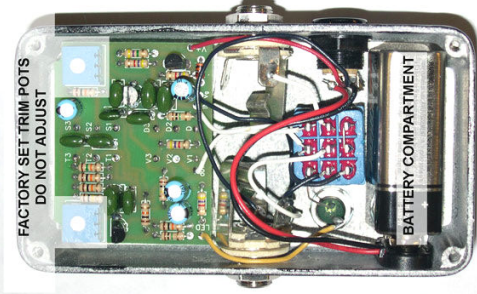
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