

ROCKTRON
TECHNOLOGY FOR GUITARISTS

O.D.B Overdrive Dynamic Blues Instruction Manual



This pedal is:



May be covered by one or more of the following: U.S. Patents #4538297, 4647876, 4696044, 4745309, 4881047, 4893099, 5124657, 5263091, 5268527, 5319713, 5333201, 5402498 and 5493617.

Other patents pending. Foreign patents pending.

Compliance



Your O.D.B - Overdrive Dynamic Blues™ pedal has been tested and complies with the following Standards and Directives as set forth by the European Union:

Council Directive(s): 89/336/EEC Electromagnetic Compatibility

Standard(s): EN55013, EN50082-1

This means that this product has been designed to meet stringent guidelines on how much RF energy it can emit, and that it should be immune from other sources of interference when properly used. Improper use of this equipment could result in increased RF emissions, which may or may not interfere with other electronic products.

To insure against this possibility, always use good shielded cables for all audio input and output connections. This will help insure compliance with the Directive(s).

For more information about other Rocktron products, please see your local dealer or one of our importers closest to you (listed on the Rocktron website (www.rocktron.com)).

Read all instructions contained in this manual.

Keep these instructions

Heed all warnings

Follow all instructions.

Do not use this apparatus near water.

Clean with dry cloth

Precautions

Refer all service to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply or plug is damaged, liquid has been spilled or objects have fallen into the apparatus or if the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.

DO NOT ATTEMPT TO SERVICE THIS EQUIPMENT. QUALIFIED PERSONNEL SHOULD SERVICE THIS EQUIPMENT ONLY. DO NOT MAKE ANY INTERNAL ADJUSTMENTS OR ADDITIONS TO THIS EQUIPMENT AT ANY TIME OR TAMPER WITH INTERNAL ELECTRONIC COMPONENTS AT ANY TIME. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY VOID THE WARRANTY OF THIS EQUIPMENT AS WELL AS CAUSING A SHOCK HAZARD.

OPERATING TEMPERATURE

Do not expose this unit to excessive heat. This unit is designed to operate between 32 F and 104 F (0 C and 40 C). This unit may not function properly under extreme temperatures.

Do not block any ventilation openings (if applicable). Install in accordance with the manufacturer's instructions.

Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.

This product is not equipped with a plug or cable. This pedal runs on a 9 Volt Battery, if a 9 Volt DC adapter is used please follow adapter manufacturer's operation instructions.

Only used attachments/accessories specified by the manufacturer.

Do not use this product with any case, stand tripod, bracket or table that is not specified by the manufacturer. Insure that the case, stand, tripod, bracket etc. is properly adjusted and setup (follow all instructions). Extra care and caution should be taken to avoid tip over and injury.

Unplug this apparatus during lightening storms or when unused during long periods of time.

Introduction:

The O.D.B provides the best Blues tone and unparalleled dynamic control you can get in one pedal. You get total control over the most subtle nuances.

The O.D.B provides two Germanium clipping diodes that may be independently assigned to provide soft knee clipping compression applied to the positive cycle of the overdrive output, negative cycle of the overdrive output or both! Thus providing the musician total control of the overdrive characteristics providing even /odd harmonic enhancement produced when Asymmetric clipping is present.

SYMMETRICAL CLIPPING:

Assigning both + - diodes produces Symmetrical clipping (both halves of the overdrive output waveform have equal volume).

ASYMMETRICAL CLIPPING:

Assigning only one of the diodes produces Asymmetrical clipping (one half of the overdrive output waveform is larger than the other) produces more harmonic overtones.

Germanium diodes are known for their magical soft clipping properties.

The Drange Control determines how much *Soft Knee Clipping* is applied.

Introduction continued....:

OUTPUT: Adjusts the final Output Gain 0db to +3dBu

TONE: Adjusts final High Frequency.

GERMANIUM DIODES:

- + When in applies clipping to the positive portion of overdrive.
- When in applies clipping to the negative portion of overdrive.

DRANGE: Determines how much soft knee clipping compression is applied:

(Controls dynamic range [waveform excursion] of the assigned + or - Germanium process)

DRIVE: Adjust the Overdrive gain (before Germanium diode circuitry)

The footswitch on the O.D.B controls On/Off status (indicated by the LED). This stomp box runs on a 9V Alkaline battery. You may also use the Rocktron DC OnTap Universal Power Adaptor (sold separately).

Descriptions



Descriptions continued.....

- 1 OUTPUT & TONE Control - The larger outside knob (Tone Control) controls the final HIGH FREQUENCY. The smaller inside knob (Output Control) adjusts the final output gain 0db to +3dBu.
- 2 GERMANIUM DIODES Switches - these two switches turn ON and OFF the positive and negative portion of the overdrive.
 - + Applies clipping to the positive portion of overdrive.
 - applies clipping to the negative portion of overdrive.
- 3 9VDC Input - This input jack provides 9VDC power to the pedal from the Rocktron DC OnTap 9V power supply (sold separately).
- 4 DRIVE & D-RANGE Control- The larger outside knob (D-Range Control) Determines how much soft knee clipping compression is applied. Controls dynamic range (waveform excursion) of the assigned + or - Germanium process. The smaller inside knob (Drive Control) adjusts the overdrive gain (before the Germanium diode circuitry).
- 5 INPUT Jack - Using a standard 1/4" guitar cable, plug your guitar into this jack.

Descriptions continued.....

- 6 ON/OFF Led - This LED shows if the pedal is on or off. When the LED is light the pedal is on. When the LED is not light the pedal is off.
- 7 OUTPUT Jack - This jack provides the summed output of the effect. Use a 1/4" guitar cable to plug into the next effect or into a guitar amplifier.
- 8 FOOTSWITCH - Use this switch to turn on or off the pedal. The On/Off Led will show you if the pedal is on or off.

Typical Connection



Specifications

Maximum Input	2.2dBu
Maximum Output	-0.64dBu
Input Impedance	1MΩ
Output Impedance	1Ω
Current Consumption	15mA
Power Requirements	9V Alkaline Battery or Rocktron DC OnTap Universal Power Supply (sold separately). Negative tip.
Dimensions	95mm x 120mm x 56mm 3.75" x 4.75" x 2.25"
Weight	410g 14.46 oz

How to change the battery:

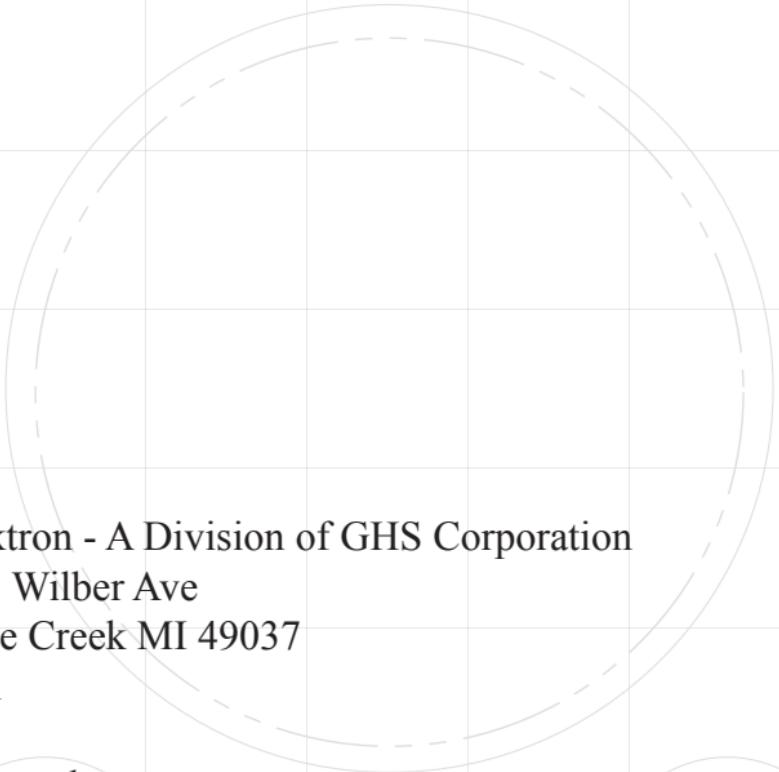
To change the battery, turn the pedal over and remove the 4 screws on the bottom. Remove the back cover. Carefully remove the old battery and replace it with a new 9V Alkaline battery. Replace battery in the same area as the old battery was located. Place the back cover on the pedal and re-insert the screws.

Save yourself tons of money in batteries by using the Rocktron DC OnTap Universal Power Supply to power this pedal (sold separately). The Rocktron DC OnTap provides a constant flow of power to the pedal, unlike a battery that will degrade over time. The Rocktron DC OnTap Universal Power Supply can also power up to 20 pedals and can be used with both 110V and 220V power sources.

Check, www.rocktron.com for more information on the DC OnTap and where to purchase.

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