

## General Operation

ToadWorks Barracuda is an analog flanger designed to emulate the original custom-built flanger used on the 1977 recording of the song "Barracuda". Please refer to page 2 of the operation manual for suggested settings. **NOTE: This is the second version of this pedal. Production on this version began in June, 2012. If you are unsure which version you have, please refer to the ToadWorks Website: <http://www.ToadWorksUSA.com/FAQ.html>**

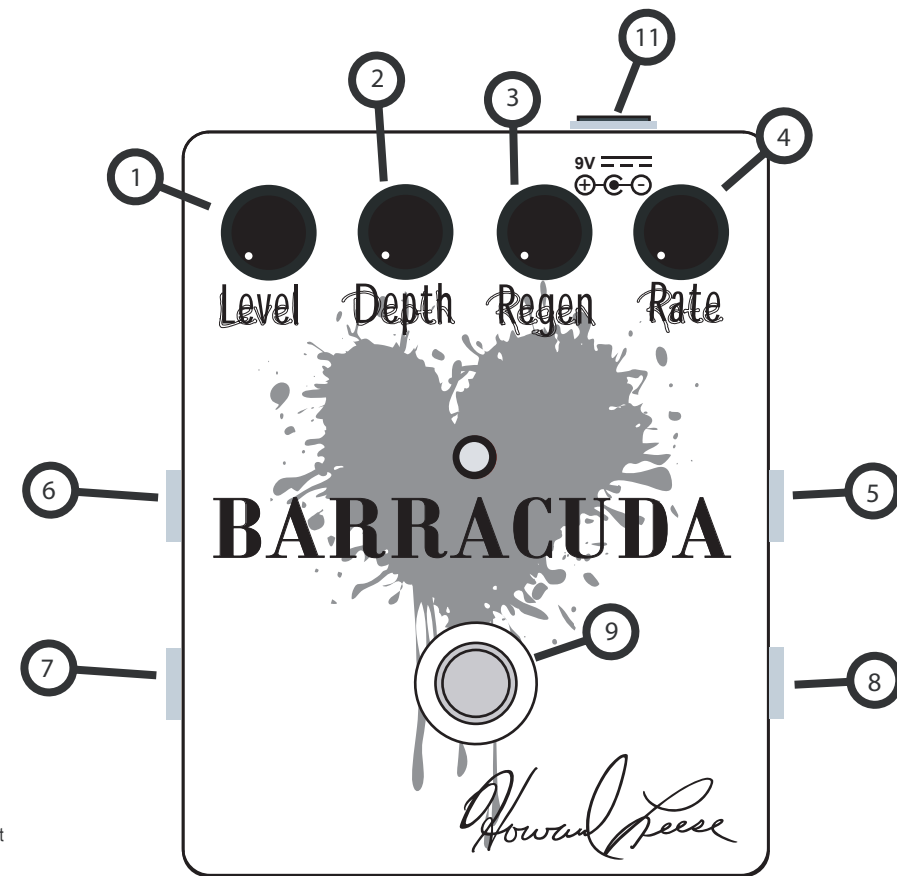
- 1 Level**  
The Level knob controls the overall output volume of the pedal. Turning the knob clockwise increases the signal level, turning the knob counter-clockwise decreases the signal level. In most cases, adjusting the level to 12 o'clock will result in unity gain.
- 2 Depth**  
The Depth knob controls the amount of flanger effect present in the signal. Turning the knob clockwise increases the effect, turning the knob counter-clockwise decreases the effect. The ideal setting for correct wet/dry mix is 3 o'clock.
- 3 Regen**  
The Regen knob controls the amount of signal regeneration. Turning the knob clockwise increases the regeneration, turning the knob counter-clockwise decreases the regeneration.
- 4 Rate**  
The Rate knob controls the speed of the LFO. Turning the knob clockwise increases the sweep rate, turning the knob counter-clockwise decreases the sweep rate.
- 5 In**  
The input jack is clearly labeled on the right side of the pedal. It is designed for use with 1/4" phone plugs only. NOTE - Barracuda is designed to accommodate both high and low output pickups. To avoid overloading the input and excessive signal distortion, hotter pickups may require the Depth and/or Regen controls to be backed off a bit.
- 6 Out (primary)**  
The primary output jack is clearly labeled on the left side of the pedal. It is designed for use with 1/4" phone plugs only. Use this jack for mono applications.
- 7 Out (secondary)**  
The secondary output jack is located on the left side of the pedal. It is designed for use with 1/4" phone plugs only. When a cable is inserted into this jack, the output signal is split - the affected signal is sent to the primary Out jack, and the unaffected (clean) signal is sent to the secondary Out jack. This creates a true stereo output, and when used with two amplifiers, the 'flange' effect becomes an aural phenomenon. NOTE: while the affected and clean signals are sent to different output jacks, any added regen is applied to BOTH output jacks. NOTE: This is the second version of this pedal. Unlike the previous version, this version features 'True-Stereo' output - this means that BOTH output jacks produce sound when the pedal is 'off', AND the circuit remains 'True-Bypass'.
- 8 Exp. Pedal**  
The Expression Pedal jack is clearly labeled on the right side of the pedal. It is designed for use with the EP1-TB expression pedal from Mission Engineering ( <http://www.mission-engineering.com/Mission-Engineering/Toadworks.html> ) . Inserting the expression pedal plug into this jack will disable the LFO, and the expression pedal becomes a manual sweep controller.
- 9 Switch**  
The switch is located directly on top of the pedal, and is used to turn the effect on and off (Note: Barracuda is wired for "True Bypass." This means that when the switch is in the "off" position, the original signal is routed around the effect circuit, resulting in no signal loss or coloration).
- 9V Battery Clip**  
Barracuda has extremely high current requirements. If a battery must be used, we recommend a high-quality lithium 9V.
- Power Supply Jack**  
Barracuda is equipped with a 2.1mm barrel jack for use with a tip-negative 9 Volt DC REGULATED power adapter (Note: Many 9V power adapters are grossly out of spec, and the actual voltage can range anywhere from 7.5 Volts to 16 Volts. Voltages of 11V and above will affect the operation of the pedal and can damage the components. To avoid damage and/or incorrect operation, use only the highest quality power adapters). ToadWorks recommends the 1-Spot 9VDC adapter.

### DO NOT UNDER ANY CIRCUMSTANCES USE AN 18V ADAPTER!

Forget about "increasing headroom" - if the pedal was intended to be used with 18V, we would say so. Any voltage higher than 11 VDC will DESTROY the op-amps, and we won't fix it for free.

### A Word About Component Tolerances

The potentiometers in our pedals have a 20% tolerance - that's a pretty big potential for variance. For this reason, each pedal will require slightly different control adjustments to achieve the same control response, and as a result the suggested settings are just that - suggestions.



### Warranty

We guarantee that your pedal will be free of defects in workmanship for a period of two (2) years from the date of purchase. However, each pedal is hand made, and as a result certain imperfections are unavoidable; color & finish will ALWAYS be slightly imperfect. Just think of it as "unique." We also guarantee the continued operation of all components for a period of two (2) years from the date of purchase. Within this two year period ToadWorks will repair or replace at our discretion any pedal that ceases to function properly as a result of faulty workmanship or materials.

This warranty can be voided by any of the following:

- Removal or replacement of any component*
- Prolonged exposure to elements*
- Abuse above and beyond normal wear and tear*
- Application of incorrect power supply*

No pedal shall be repaired or replaced that shows signs of abuse and/or modification. All requests for warranty service must be accompanied by documented proof of purchase. This warranty is non-transferable. As of January 1, 2006, units purchased from US domestic dealers and shipped to Europe, Asia and Australia are not eligible for warranty services.

### ToadWorks USA

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### REAR VIEW

