

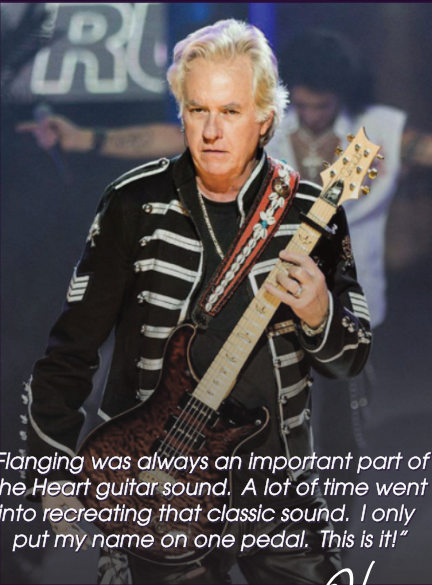


# Owner's Manual

**Congratulations on your purchase of the Howard Leese Signature Model effect pedal, Barracuda®**

My name is Ryan Dunn, and I built this pedal, with my own hands. I soldered, sanded, polished and tested it. I want your experience to be perfect, and that means my product has to exceed your expectations. Every unit gets my full attention, and my only hope is that you love it as much as I do.

IMAGE © ERIK NIELSEN



*"Flanging was always an important part of the Heart guitar sound. A lot of time went into recreating that classic sound. I only put my name on one pedal. This is it!"*

*Howard Leese*

In keeping with the innovative nature of the original custom-made unit used on the recording, I have elected to add some features that the original didn't have... of course you can nail "Barracuda", but there are many more sounds lurking inside, waiting for you to release them.

I've sought out the very best components I could find; From the knobs down to the feet, every single part was chosen for its superior quality and durability.

This is the result of hundreds of hours of work, learning, tweaking, experimenting, playing, and ultimately succeeding.

With the encouragement and guidance of Howard Leese, this is the best thing I have ever produced. It is part of me, and I stand behind it, 100%.

*Ryan Dunn*

## Features and Controls ❖

Barracuda® is an analog flanger designed to reproduce the original flange effect featured on the 1977 recording of 'Barracuda' by Heart. The original unit featured monophonic output, regeneration and a unique series of filter networks. Because some key components are obsolete, with no modern equivalents, a new circuit was designed, with a few additional features:

- ◆ *True-Stereo Output*
- ◆ *Manual sweep via Expression Pedal*
- ◆ *Level and Depth controls*
- ◆ *9V DC Compatible*
- ◆ *Improved noise floor*
- ◆ *Alternate Regeneration Path Switch*

Barracuda is a True-Bypass effect - this means the signal is mechanically routed around the active circuit. Both the mono and stereo outputs are bypassed in this manner.

Inserting a plug into the stereo (lower left) output jack places the pedal in Stereo mode. This is a true aural phenomenon - the flanging occurs in the air.

The enclosure is rugged, with a custom anodized aluminum faceplate and laser-etched graphics, designed to withstand years of use.

### Technical Specifications:

*Power Requirement: 9V, DC*

*Power Connector: 2.1mm barrel*

*Polarity: Tip/Neg + - G -*

*Audio Connector: 1/4" phone*

*Current Draw: ~90mA*

*Dim: (h)4.6" x (w)3.6" x (d)2.5"*

## ❖ Features and Controls (cont.)

- 1. Level** - controls the signal level at the output.
- 2. Depth** - controls the affected/unaffected mix.
- 3. Regen** - controls the amount of regeneration present in the signal (also known as feedback).
- 4. Rate** - controls the speed at which the LFO modulates the affected signal.
- 5. Alternate Regen Path (ARP)** - switches the regeneration. 'ALT' setting creates a throaty, flanged filter effect, similar in tone to a talk box. Turn Regen to max for full effect.
- 6. On/Off** - switches the effect on and off.
- 7. Input** - signal from instrument.
- 8. Mono Output** - mono signal to amplifier.
- 9. Stereo Output** - stereo signal to amplifier. Connecting a plug to this output places the effect in Stereo mode, altering the signal coming from the Mono Output.
- 10. EXP** - connects to an expression pedal for controlling the modulation manually. This does not replace the 'Rate' control - it is a 'Manual Sweep'.
- 11. DC Power Jack** - connects to a 9V DC power supply.



TEN Effects are not individually serialized. Instead, each pedal is marked with a batch number. The batch number is stamped into the lid, and is visible from the rear.

# Connection Guide

To prevent malfunction and/or damage to speakers, turn off the power on all devices before making any connections.

Mono Output



Stereo Output



\*Inserting a plug into the Stereo Out Jack will place the pedal into Stereo Mode



Instrument

Expression Pedal for Manual Sweep



## Connections and Settings ❖

Level Depth Regen Rate

**BARRACUDA** ARP Switch: STD

Level Depth Regen Rate

**LIGHT CHORUS** ARP Switch: STD

Level Depth Regen Rate

**LESLIE SIM** ARP Switch: STD

Level Depth Regen Rate

**DEEP FUNK** ARP Switch: ALT

Level Depth Regen Rate

**VIBRATO** ARP Switch: ALT

\*Settings are approximate

## ❖ Troubleshooting

When troubleshooting, remove everything non-essential from the signal chain. Starting with just an instrument, pedal and amplifier will eliminate possible points of failure and speed up the troubleshooting process.

### No sound in Bypass

Check Input & Output connections  
Check cables, swap if necessary  
Check volume/output on instrument

Note: In the event of a loss of power, your effect pedal will automatically revert to 'Bypass' mode.

### No sound when Effect is engaged

Is the LED indicator on?

Yes: Check Input & Output connections

No: Check power supply, swap if necessary

### Effect is distorting

Is the instrument active?

Yes: Dial back the instrument volume

No: Dial back the Depth control

## Warranty and Contact Information ❖

### Warranty

All TEN Effects come with a Limited Lifetime Warranty for the original purchaser.

I guarantee that your pedal will be free of defects in workmanship for the life of the product.

I also guarantee the continued operation of all components for a period of five (5) years from the date of purchase. Within this five year period TEN Effects will repair (or replace, at our discretion) any pedal that ceases to function properly as a result of faulty 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 showing signs of abuse and/or modification will receive warranty service. All requests for warranty service must be accompanied by documented proof of purchase. This warranty is non-transferable.

### Contact Information:

Please send all requests for service to:

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