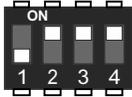


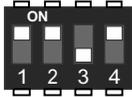
## BOOT OPTIONS

You can use a DIP switch(14) to determine how The Banshee will operate after being plugged into power. The factory default is STOMPBOX BYPASS. Unscrew the 4 screws on the bottom lid to set the 4 DIPs:

Example:  
Startup in MIDI mode with Custom CC messages and with Booster active:



Example:  
Startup in STOMPBOX MODE mode with both Booster and Phaser active:



	1	2	3	4
	A	B		
Bypass	0	0		
Boost	0	1		
Phaser	1	0		
Bst+Ph	1	1		

**BOOT OPTIONS**  
0=DEFAULT 1=CUSTOM  
0=MANUAL 1=MIDI

Every unit is finalized by hand and tested for proper operation. If your unit has any problems, is damaged, or if you have any questions, email [support@pfhUUU.rocks](mailto:support@pfhUUU.rocks).

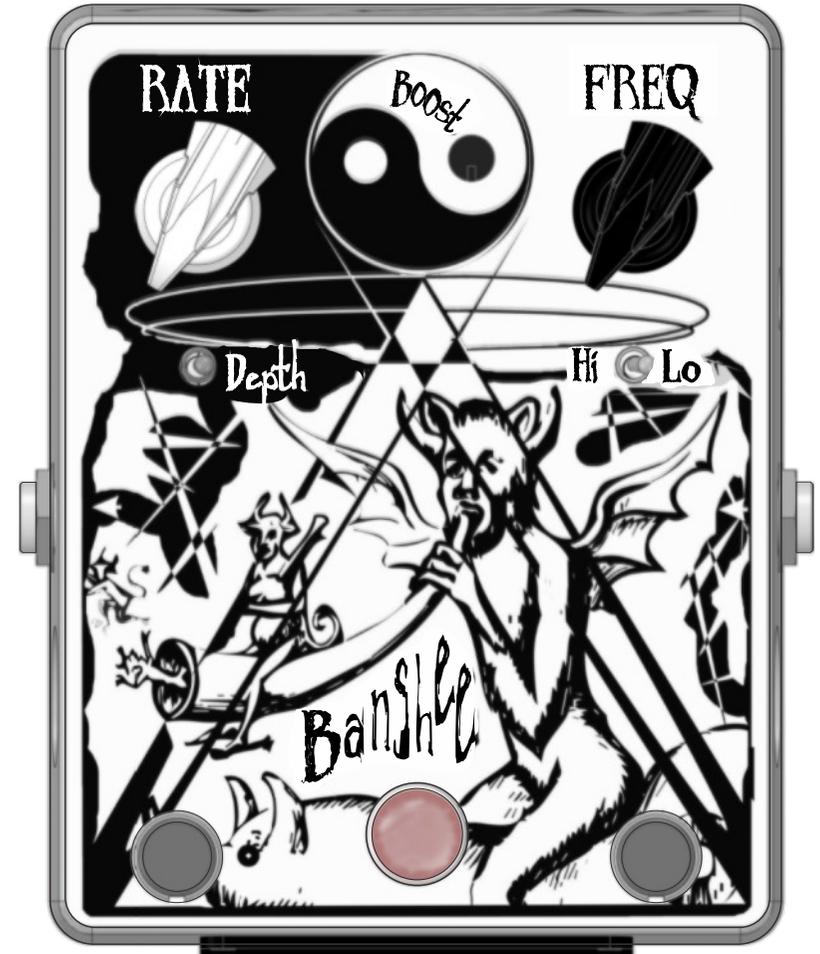
This device has a 2-year warranty. Repair service will be provided after this period.

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last update: 5/2023

# THE BANSHEE

user manual and warranty list



**PFHUUU**  
LABORATORIES  
[www.pfhUUU.rocks](http://www.pfhUUU.rocks)

designed and made for R&R sinners

After almost three years of collaboration with Kai Hansen, we proudly present to you The Banshee - Kai's secret weapon! The Banshee is the right medicine if you're looking to add some vibes and clarity to your solos or lead parts. For easy implementation on modern pedalboards and rigs, you're also able to control it via MIDI. You can adjust the frequency response to work well with darker vintage or modern amps, and also with modern hot pickups. The Banshee is a true bypass unit. Kai loves it! He uses it with amps, multi-effects, or when recording sketch ideas directly to a sound card. The Banshee is always in his rig! So, have a look and enjoy the ride!

Inside The Banshee is a booster and a modulator. You can use them separately or together.

It can operate as a "classic" stompbox or via MIDI.

MIDI controls the activation or bypass of the booster and the modulation. You can use factory CC(control change) messages or teach The Banshee custom ones.

You can also set a power-up configuration to determine how The Banshee will operate after power-on.

The BANSHEE has 4 operation modes that can be predetermined with the DIP switch(14). See BOOT OPTIONS for details.

The LED indicator(3) shows the current mode.

BLUE	Booster
GREEN	Modulation
RED	Booster and Phaser together
OFF	Bypass

In Booster mode, you can adjust the level of boost via knob(11) and the HP filter for boost via knob(10).

In Modulation mode, you can adjust the phaser rate via knob(9) and use the switch(12) for a wider sweep and more feedback to the LFO.

In Stompbox mode, Footswitch A(1) switches between Active FX and bypass. In MIDI mode, you can hold it for a few seconds to set The Banshee to LEARN mode.

In Stompbox mode, Footswitch B(2) switches between Booster/Phaser/Both. In MIDI mode, it switches between FACTORY and CUSTOM CC messages.

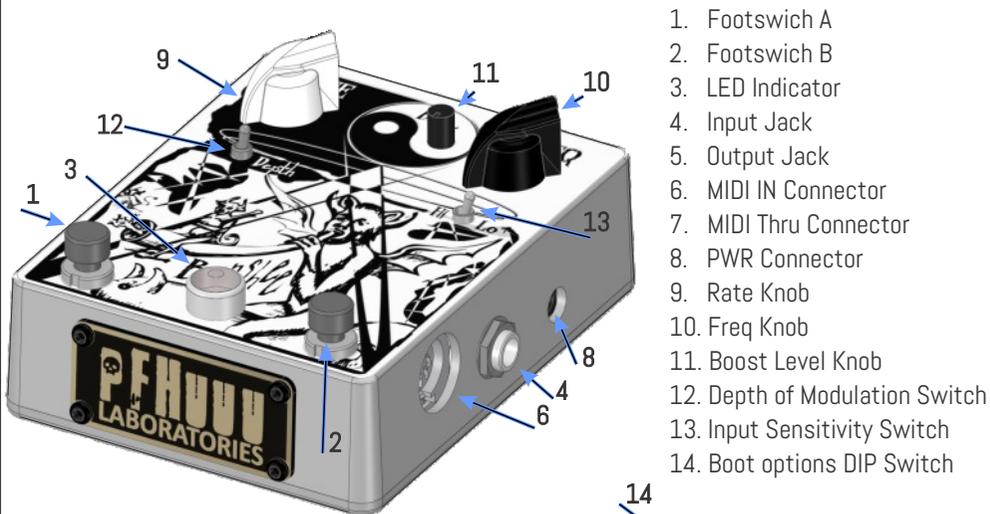
When you hold Footswitch B(2) for a few seconds, it switches between Stompbox and MIDI mode.

## Technical Specifications

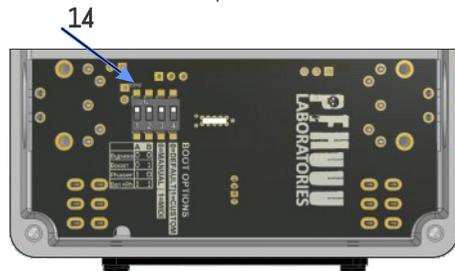
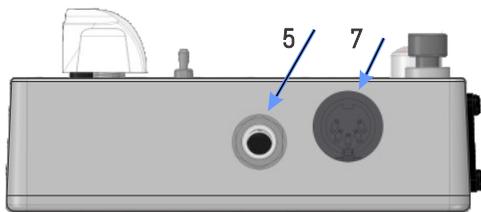
This device is powered with a standard 9VDC power supply with a 2.1mm negative center connector(8). For best performance, always use a well filtered power supply. Using it in a daisy chain power supply with digital pedals could possibly make an unwanted hum or interference.

DO NOT RUN AT HIGHER VOLTAGES!

Current Draw: 50mA



1. Footswitch A
2. Footswitch B
3. LED Indicator
4. Input Jack
5. Output Jack
6. MIDI IN Connector
7. MIDI Thru Connector
8. PWR Connector
9. Rate Knob
10. Freq Knob
11. Boost Level Knob
12. Depth of Modulation Switch
13. Input Sensitivity Switch
14. Boot options DIP Switch



## MIDI operation

To check if The Banshee is in MIDI mode, press FOOTSWITCH B(2) once. If the LED (3) blinks once or 3 times, you are in MIDI mode. If not, you are in STOMPBOX mode. You need to activate BOOSTER, PHASER, or BOTH and then press and hold FOOTSWITCH B(2) for a few seconds until the LED Indicator(2) blinks. Or you can set up the BOOT OPTION to start in MIDI mode (see next page).

In MIDI mode, pressing FOOTSWITCH B(2) once switches between factory and custom messages. The LED(3) blinks once for FACTORY CC or blinks 3 times for CUSTOM CC. When held for a few seconds, it switches The Banshee to STOMPBOX mode.

The Banshee listens to MIDI CC messages on all channels.

The factory messages are (0-63 for BYPASS and 0-127 to ACTIVATE):

- CC 16 Treble Booster
- CC 17 Phaser
- CC 18 Treble Booster and Phaser

In MIDI mode, FOOTSWITCH A(1) works only to activate LEARN mode, press and hold it for a few seconds. The LED(3) will start flashing. Now, the unit is waiting for 3 different CC messages. Flashing BLUE for Treble Booster, GREEN for Phaser and RED for both. Send the first CC message and wait for the color change, then the second, and then the last.

If the received MIDI message is not a CC The Banshee will ignore it and wait for the next message. If you send two same CC messages, the process is aborted, factory defaults are written, and the status LED(3) blinks light BLUE. In that case, just power-down the unit and start again. If everything is right the status LED(3) will be GREEN. If not, power down the unit and start again.

After learning CCs, The Banshee needs to be powered down and up.