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# GuitarPCB Presents

## NostalgiTone Behemoth Fuzz

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Some fuzz pedals get big. The Behemoth gets enormous.

The Behemoth is all about low-end weight, thick saturation, and fuzz that can go from surprisingly tame to completely unruly. It sounds great on guitar, but plug in a bass or a down-tuned guitar and you start to hear what this thing was really built to do.

The Wool control takes you from a more open, defined fuzz into increasingly thick and saturated territory. There's plenty of fuzz available, but backing it down reveals some surprisingly usable tones.

The EQ control lets you decide just how much of that low end you want to unleash. Dial it toward the bass side and the Behemoth delivers huge, crushing low end. Turn it clockwise and the sound moves toward a more familiar fuzz character, making it equally at home on standard-tuned guitar.

And then there's Pinch. With Pinch counterclockwise, the Behemoth is big, full and relatively well behaved. Start turning it clockwise and things begin to tighten up, gate, sputter and break apart. At the extreme, it gets downright nasty. That's where the Behemoth really earns its name.

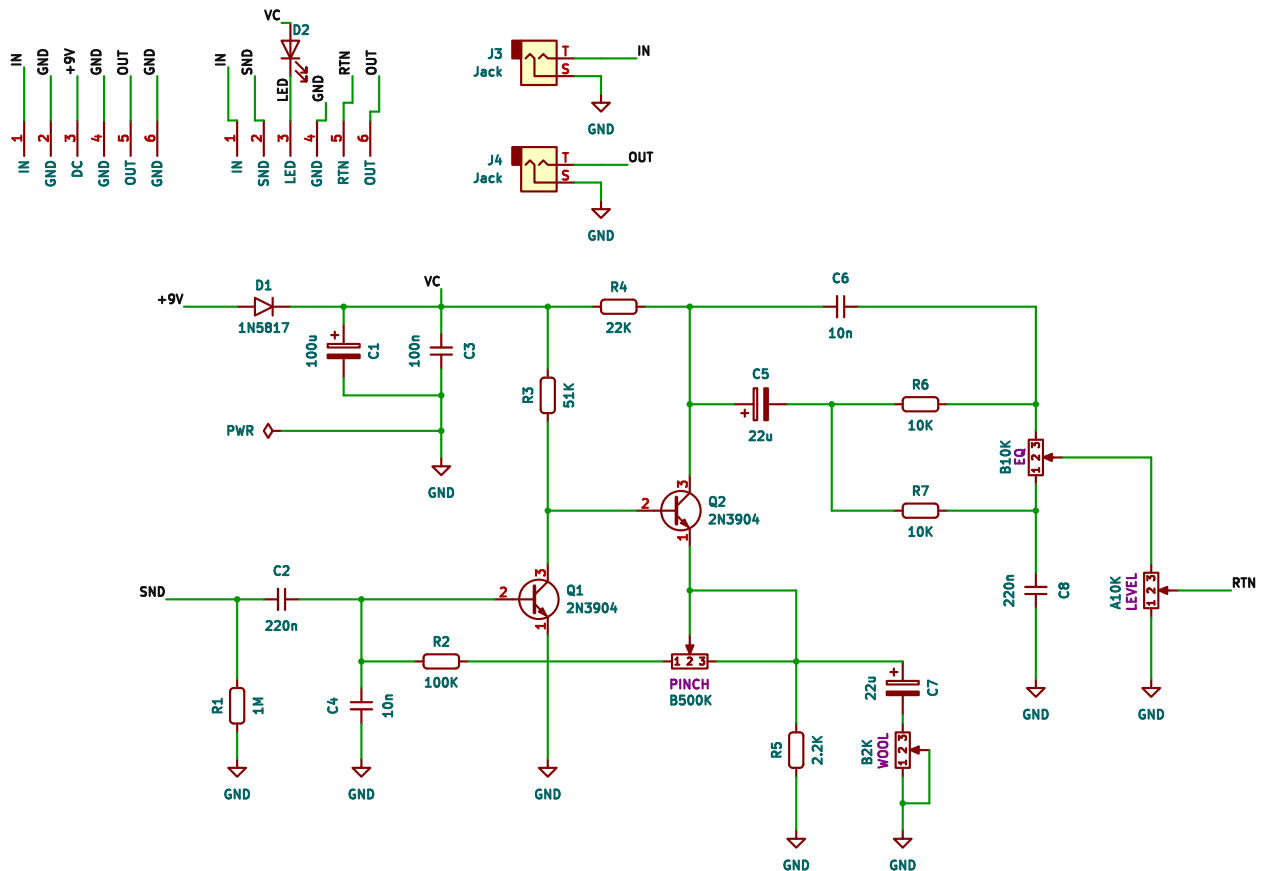
Doom. Desert Rock. Stoner Rock. Down-tuned riffs. Bass or Guitar, the Behemoth is ready.



Mainboard Dimensions – 2.10" x 2.12" – Perfectly sized for a 1590B or 125B enclosure

Included with each PCB purchase. – (1) Mainboard, (1) wiring board, and (1) ribbon cable.

## Schematic:



## Bill of Materials:

| PART | VALUE | PART | VALUE      | PART     | VALUE     |
|------|-------|------|------------|----------|-----------|
| R1   | 1M    | C3   | 100n       | Q1       | 2N3904    |
| R2   | 100K  | C4   | 10n        | Q2       | 2N3904    |
| R3   | 51K   | C5   | 22u        |          |           |
| R4   | 22K   | C6   | 10n        | LEVEL    | A10K      |
| R5   | 2.2K  | C7   | 22u        | WOOL     | B2K       |
| R6   | 10K   | C8   | 220n       | EQ       | B10K      |
| R7   | 10K   |      |            | PINCH    | B500K     |
|      |       |      |            |          |           |
| C1   | 100u  | D1   | 1N5817     | * CLR x1 | 1k8 - 4k7 |
| C2   | 220n  | D2   | Status LED |          |           |

## Build Notes:

Included with the purchase of the main PCB board will be (1) standard foot switch wiring board (6 pins), and (1) 6 pin ribbon cable.

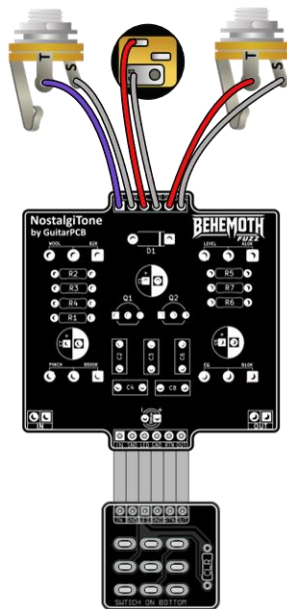
There are extra IN / Out pads located at the bottom of the PCB which are conveniently placed if you wish to use side jacks.

Use a standard 6-pin ribbon cable to connect the foot switch wiring board with the main board. The 3PDT wiring board contains an onboard (CLR) current limiting resistor. This is to adjust the brightness of the corresponding main board status LEDs. A value of 1k8 to 4k7 may be used.

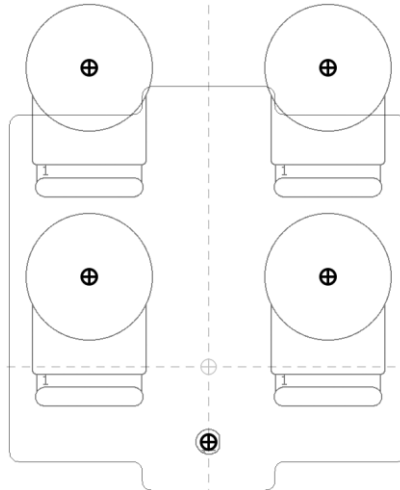
\* CLR x1 - Each wiring board requires an onboard (CLR) current limiting resistor. This is for the main board status LED.

MOD: Feel free to try other transistors with the same pinout with different hFE. Lookup datasheets and compare with 2N3904.

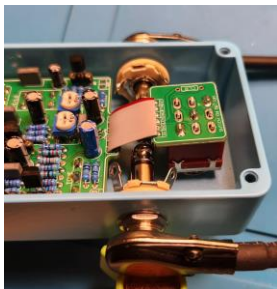
Wiring Diagram



Generic Drill Template



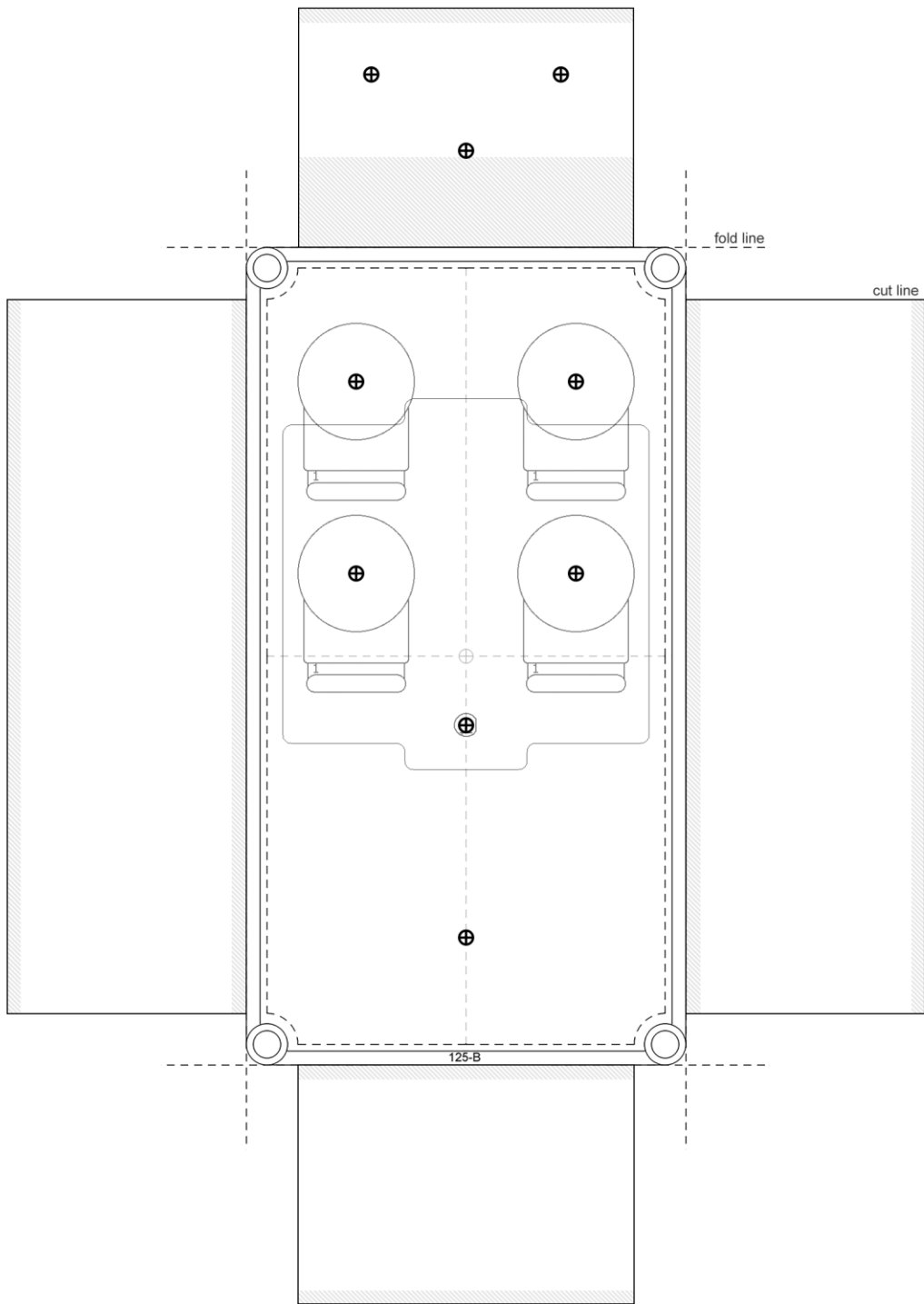
When using 1590B enclosures, it is best to mount the ribbon cable on top of the main board/3PDT wiring board instead of underneath. This is because the enclosure's compact size restricts space for the side jack Input and Output plugs.



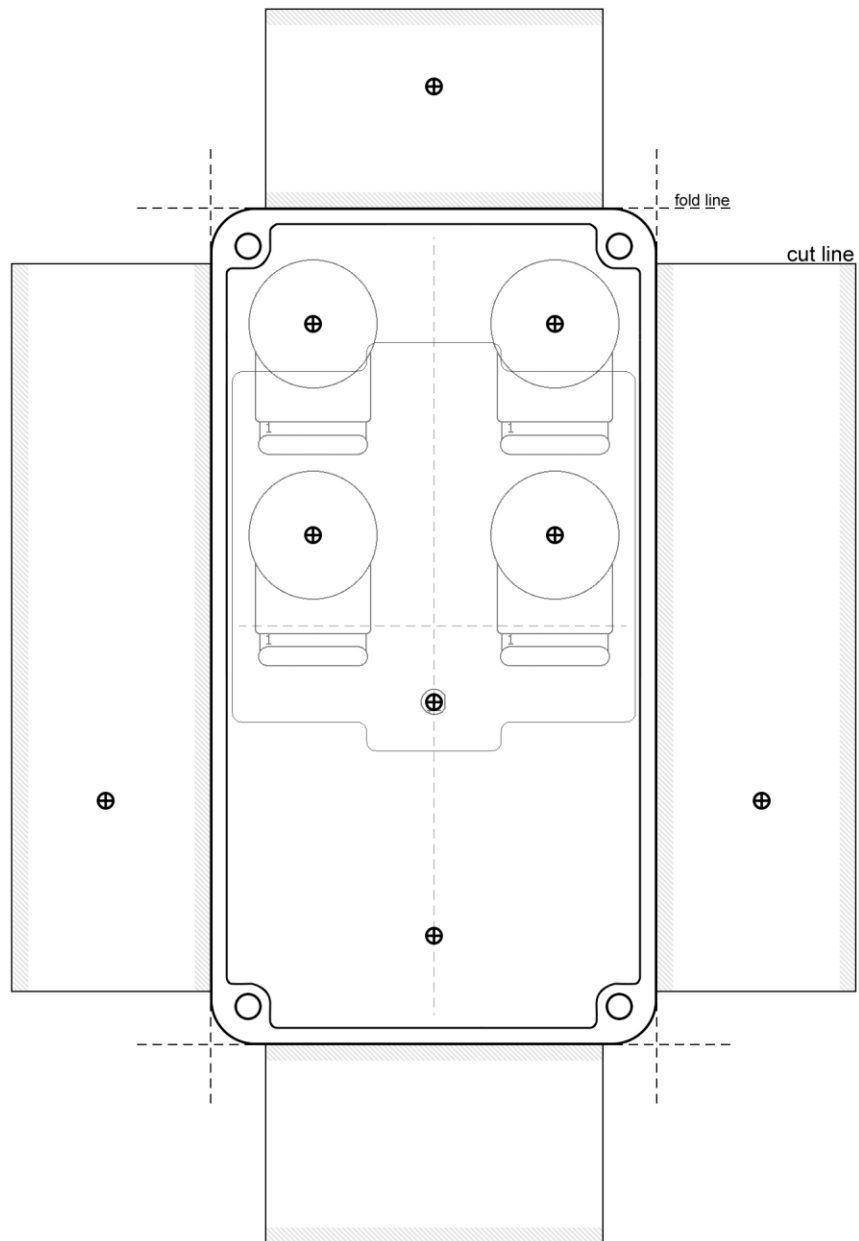
The full-size drill templates for 125B and 1590B enclosures can be found on the following two pages. Additionally, you can find a link to Tayda's pre-drilled enclosures on the shop page at GuitarPCB.com.



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**125B Drill Template**



**1590B Drill Template**