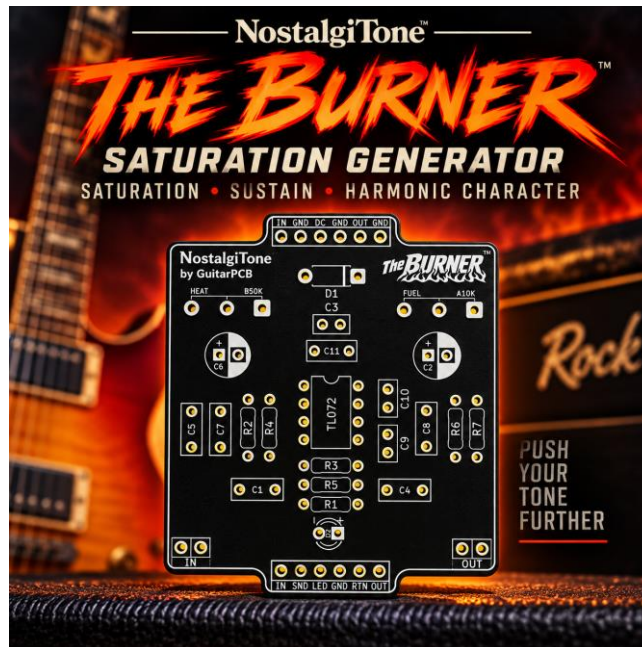

GuitarPCB Present

NostalgiTone The Burner Single

The Burner is a saturation generator engineered to add sustain and harmonic content to your signal. It is intended to push an already driven amplifier or another gain device further, creating a thicker response.

Saturation and distortion are related, but they serve different purposes. Distortion creates its own character through clipping, whether in an amplifier or a pedal, while saturation adds harmonic content as a driven signal is pushed further. The Burner is designed to work with an already driven amp or distortion circuit, adding that extra layer of harmonics and sustain without simply replacing the sound that's already there.

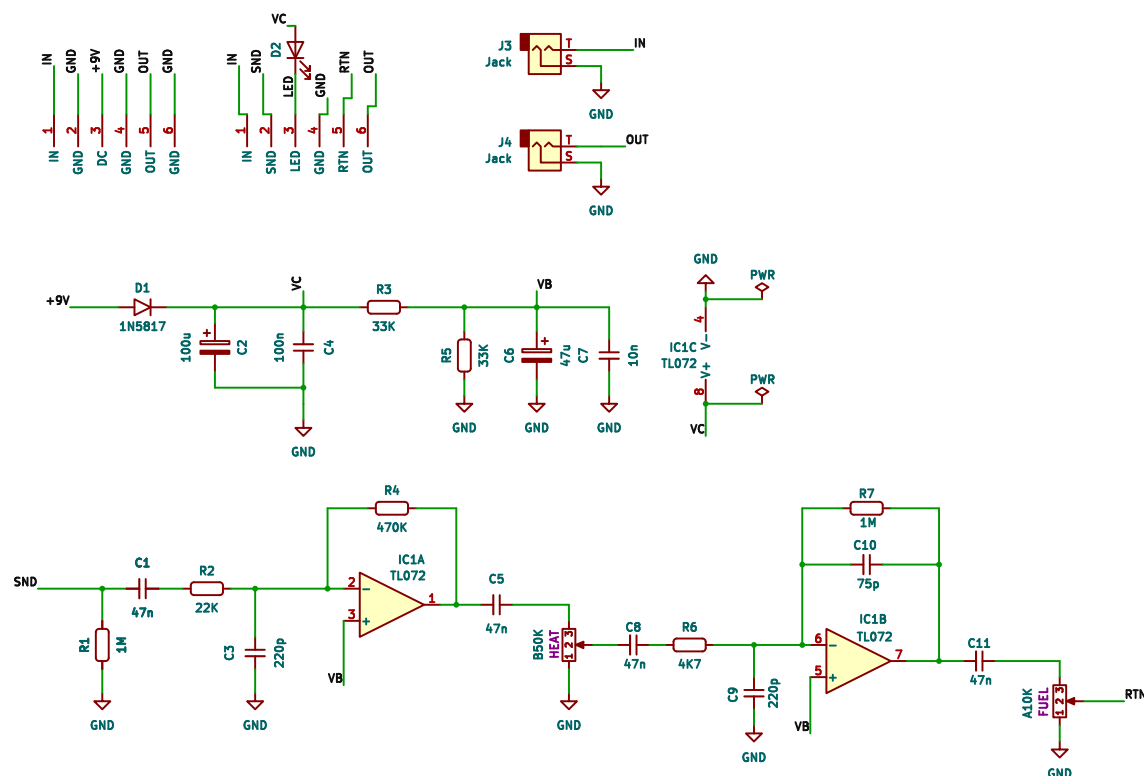
The Burner takes inspiration from the approach used on the iconic first Boston album, focusing on taking an already driven Marshall amplifier signal further by adding sustain and harmonic complexity. It's a concept that fits tones ranging from Moore, Satriani and Sykes, helping define an entire genre.



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	PART	VALUE
R1	1M	C1	47n	C8	47n	D1	1N5817
R2	22K	C2	100u	C9	220p	D2	
R3	33K	C3	220p	C10	75p		
R4	470K	C4	100n	C11	47n	HEAT	B50K
R5	33K	C5	47n			FUEL	A10K
R6	4K7	C6	47u				
R7	1M	C7	10n	IC1	TL072		
						* CLR x 1	1k8 - 4k7

The BOM reflects standard kit component values.

Build Notes:

C10: This is a crucial value. Do not substitute. 75p – 82p is fine.

Included with the purchase of the main PCB board will be (1) standard foot switch wiring board (6-pins), and (1) standard 6-pin ribbon cable. This simplifies the wiring process while keeping troubleshooting and noise to a minimum.

Use a standard **6-pin ribbon cable** to connect the foot switch wiring board to the main board. Each **3PDT wiring board** includes an onboard Current Limiting Resistor (CLR) location to control and protect the brightness of the main board's status LED. * **CLR** requires a value between 1k8 (brighter) and 4k7 (dimmer), depending on your preferred LED brightness.

Using The Burner

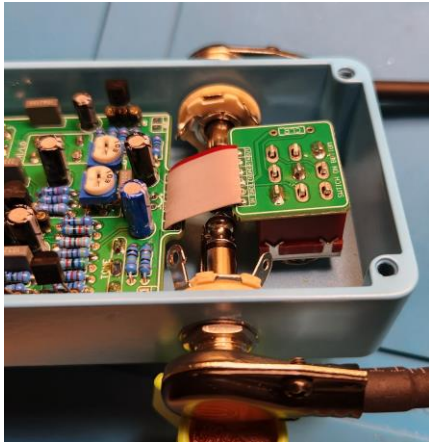
On its own: Start with **FUEL** around **11:00** and **HEAT** between **12:00** and **2:00**. Increase **HEAT** as desired for more saturation and sustain.

Into another gain stage: Start with **FUEL** around **9:00** and **HEAT** at **12:00**. With **The Burner** → **Stadium Rock (or other Gain device)**, start with a **medium GAIN (Heat)** on both devices and adjust from there. Balancing the two stages can produce smooth, singing saturation.

The diagram illustrates a four-terminal device. The top half shows a cross-section of two input ports (left and right) and two output ports (bottom left and bottom right). The bottom half shows a top-down view of the device, with a central cross-section line and a central cross-section symbol.

Note: When soldering components to your DPDT On/On switch, take care not to overheat or shift the lugs, as this can cause the Mod to malfunction. For easier and more reliable modding, consider using one of our DPDT wiring boards from the Shop.

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.

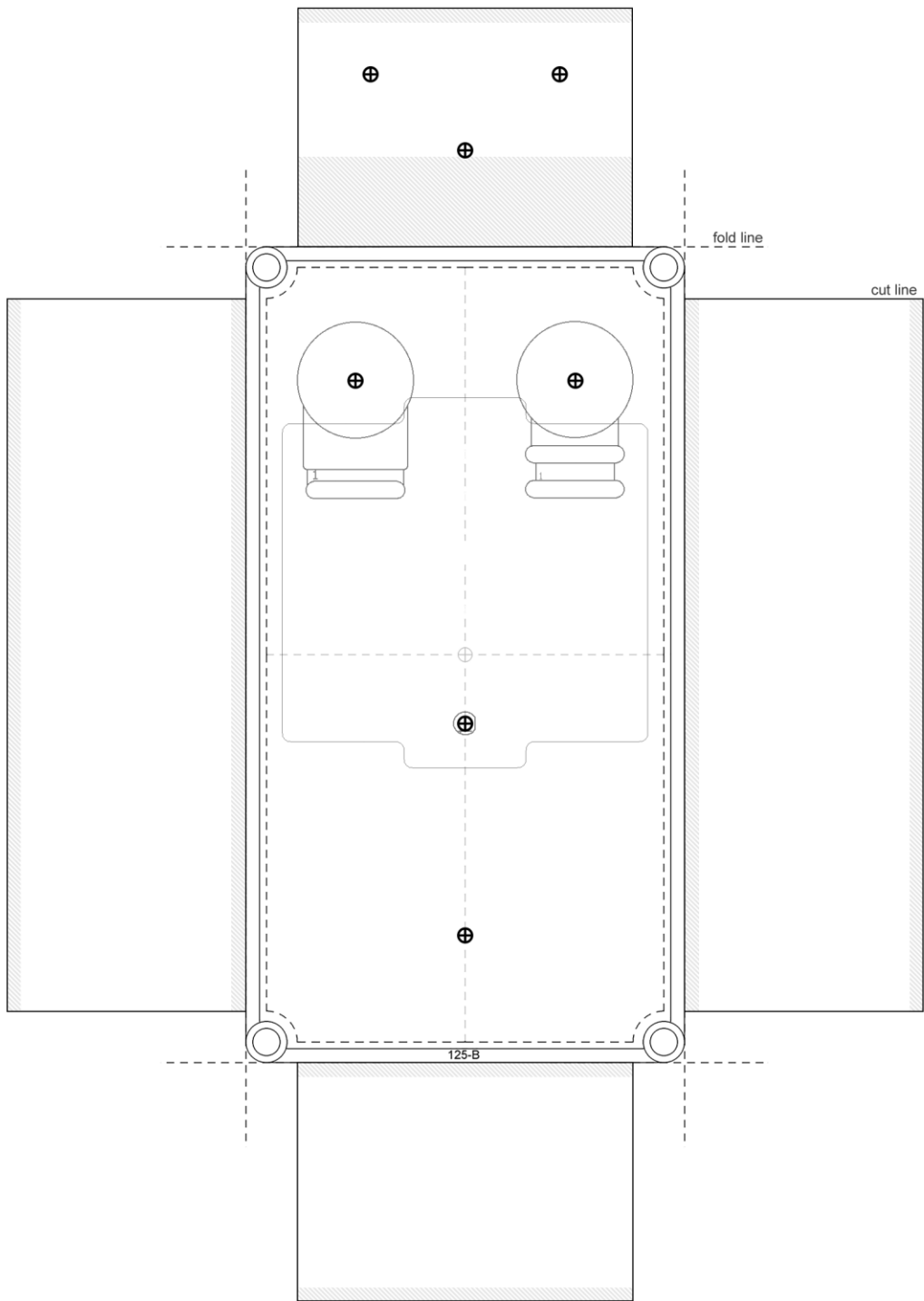


The full-size drill templates for 125B and 1590B enclosures can be found on the following two pages. Additionally, you can find a link to Tayda's pre-drilled enclosures on the shop page at GuitarPCB.com.

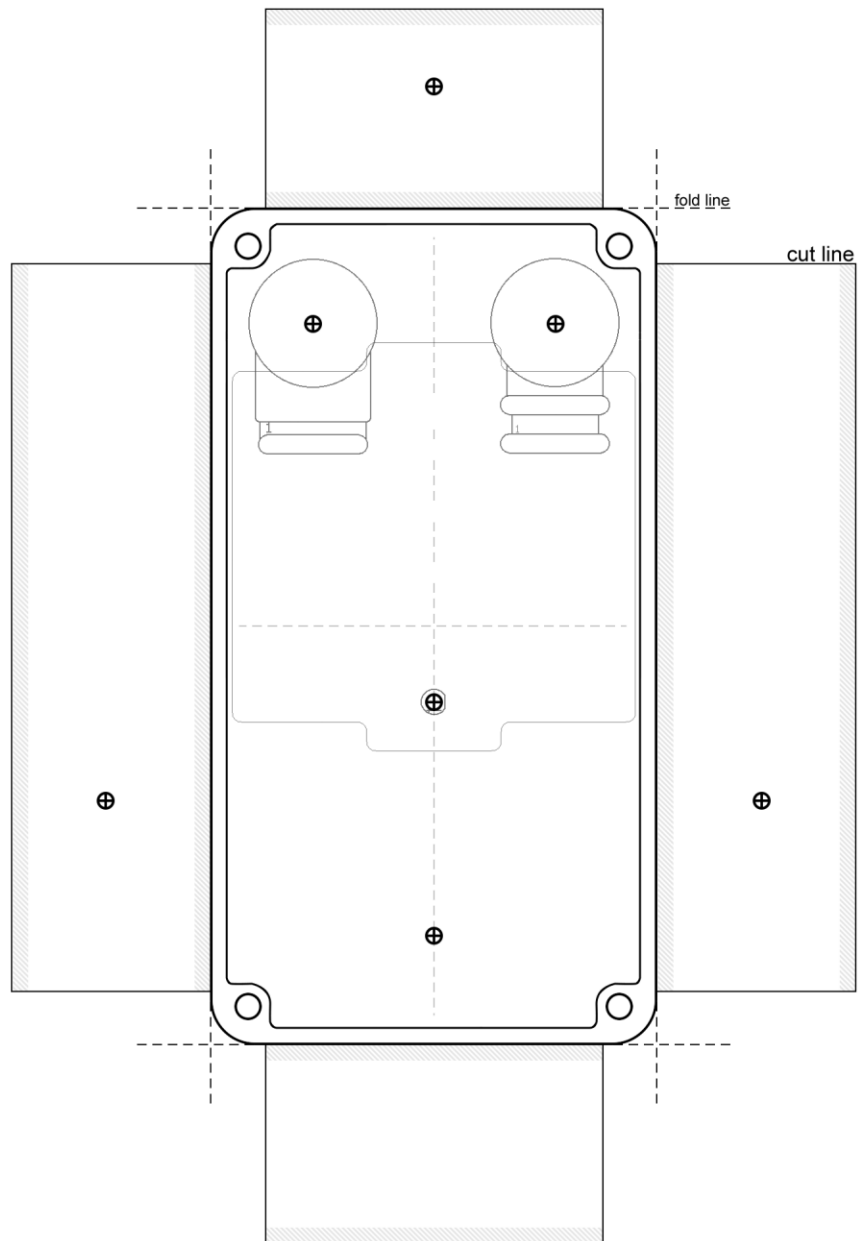


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Drill Templates for 1590B and 125B are on the next two pages.



125B Drill Template



1590B Drill Template