GuitarPCB Present

NostalgiTone Heritage+ Single

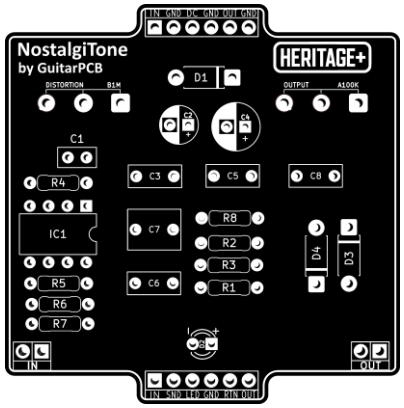
HERITAGE+ brings one of the most iconic distortion circuits in pedal history to the GuitarPCB NostalgiTone platform. Faithfully based on the legendary MXR Distortion+, this circuit has been shaping guitar tone for more than 50 years. Its two-control design takes you from bluesy overdrive and classic crunch to full-on Distortion, delivering the unmistakable voice that has made it a choice of legends.

We've kept the legendary circuit intact while giving it a modern power section designed for protection, filtering, and low-noise operation.

🔌 Easy Wiring: No more daunting wiring hassles! Say hello to beauty under the hood. Enjoy all-analog tones with modern features that will slip into your gig bag, ensuring you are always ready to unleash your musical magic.

🛠️ Available Components: We recognize the hurdles of component availability. Rest assured, we've carefully selected components for the **NostalgiTone** series currently available from today's popular vendors.

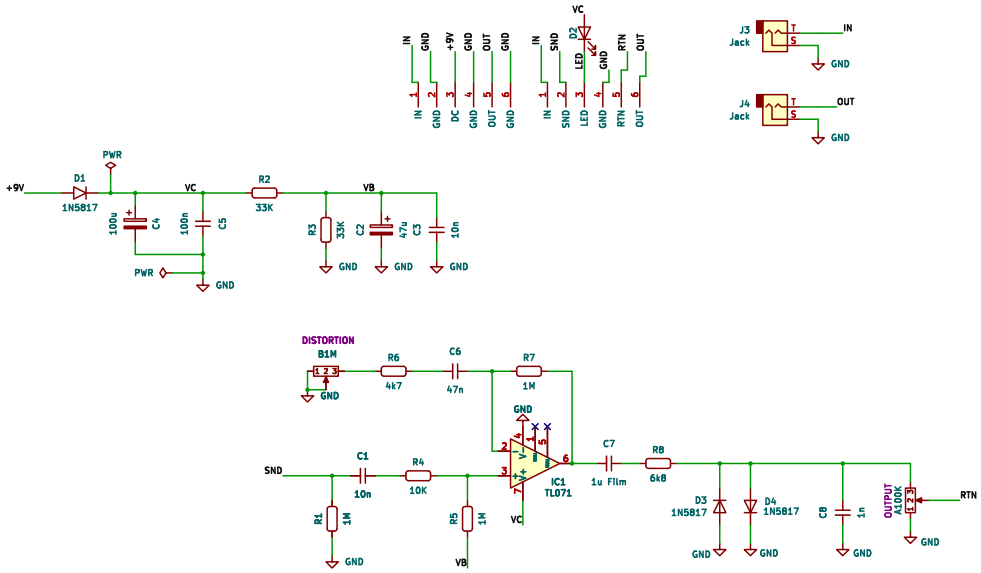
Do not settle for the ordinary when you can have extraordinary. Elevate your tone with the **NostalgiTone** series singles from GuitarPCB. Get yours today and discover a world of sonic possibilities like never before!



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	R8	6k8	C6	47n	D3	1N5817
R2	33K			C7	1u Film	D4	1N5817
R3	33K	C1	10n	C8	1n	IC1	TL071
R4	10K	C2	47u			OUTPUT	A100K
R5	1M	C3	10n			DISTORTION	B1M
R6	4k7	C4	100u	D1	1N5817		
R7	1M	C5	100n	D2	Status LED	* CLR x1	1k8 - 4k7

The BOM reflects standard kit component values. Mods do not come with Kits.

BUILD NOTES

Circuit: Faithful reproduction of the iconic MXR Distortion+ circuit, with an updated power section incorporating reverse-polarity protection and improved filtering for low-noise operation.

Clipping Diodes: The original 1N34A germanium diodes have been replaced with 1N5817 Schottky diodes for their availability, affordability, and consistency. With forward voltages of approximately 0.31 V for 1N34A vs. 0.28 V for 1N5817, they are extremely close in this application. While the 1N34A has a slightly softer knee, testing has revealed no meaningful audible difference.

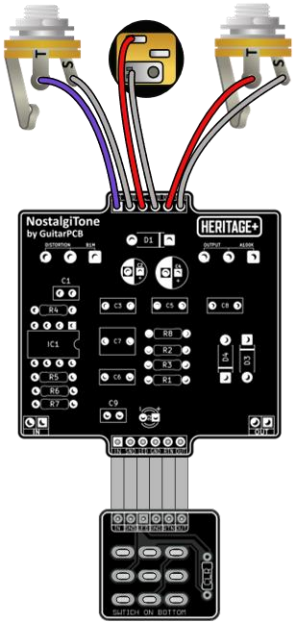
Bottom Line: The classic Distortion+ circuit and character, with modernized power protection, and filtering.

Mod: For additional high-frequency filtering, add a 10p–100p capacitor in parallel with R7 at the solder pads.

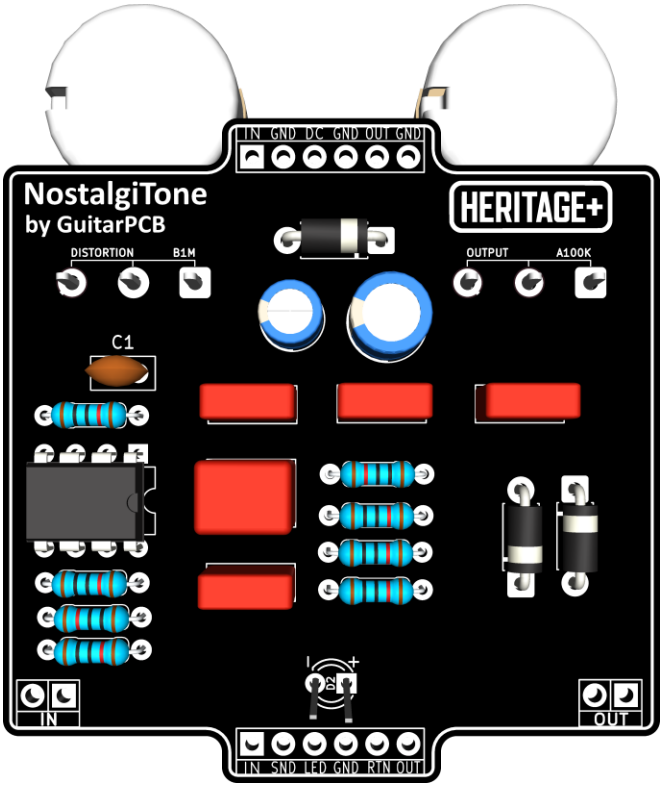
Included with the purchase of the main PCB board will be (1) standard foot switch wiring board (6-pins), and (1) standard 6-pin ribbon cable. This simplifies the wiring process while keeping troubleshooting and noise to a minimum.

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.

Wiring Diagram

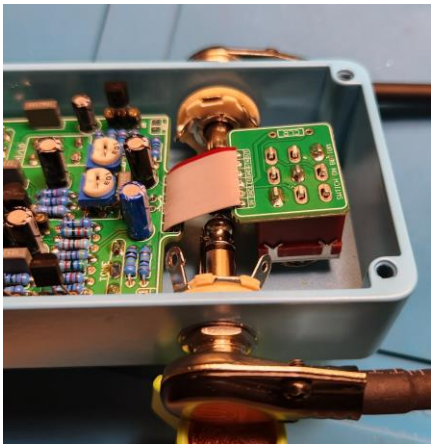


Note: Extra IN/OUT pads are located at the bottom of the PCB for convenient side jack wiring. The square pad connects the audio signal (Tip), and the round pad connects the ground.



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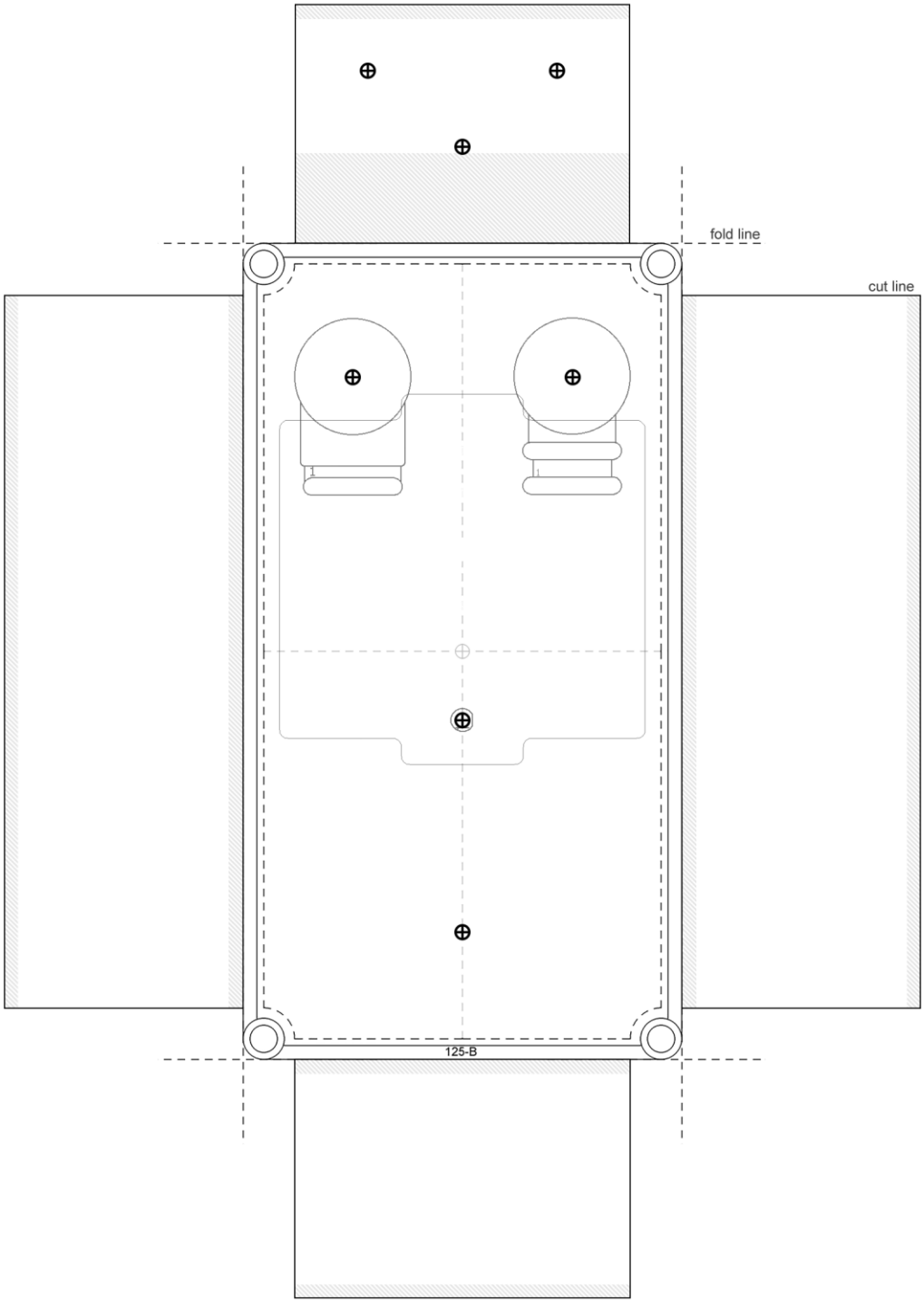
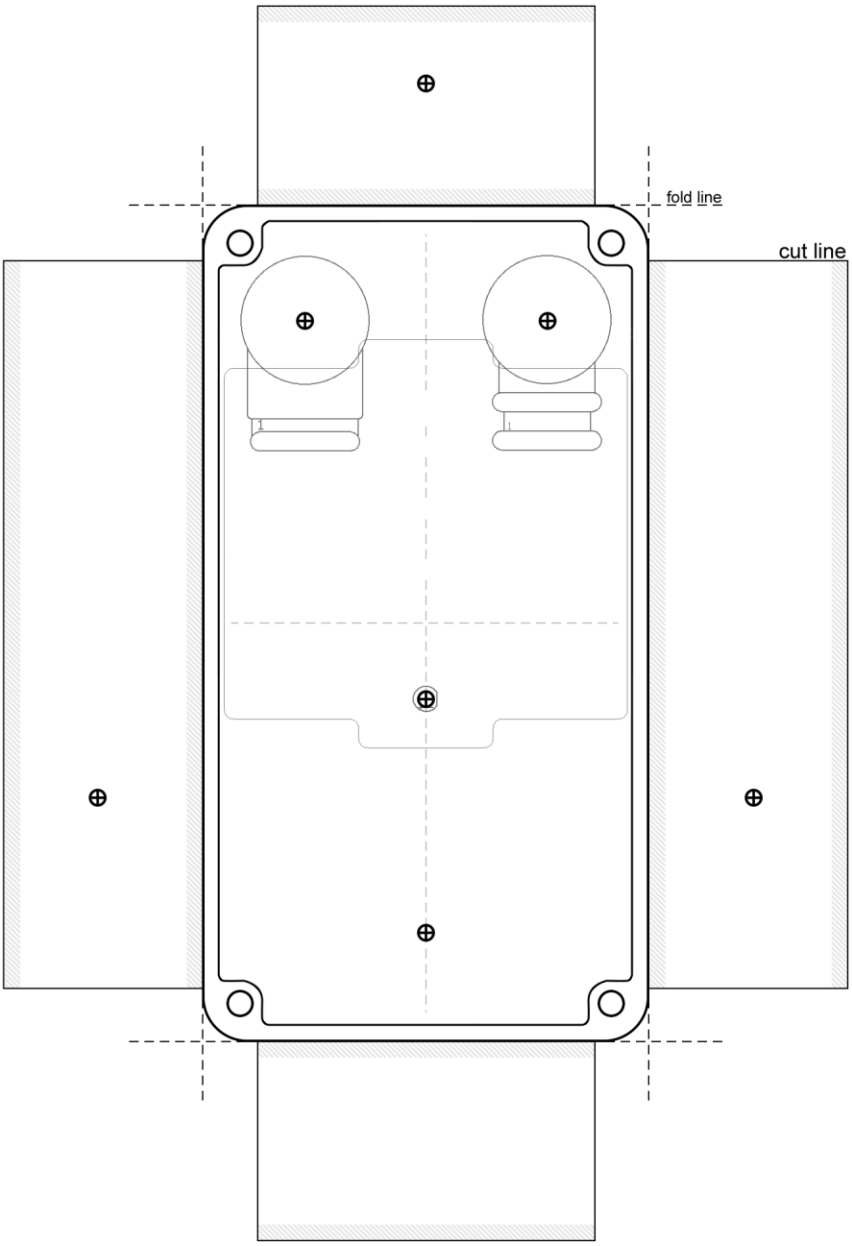
Drill Templates for 1590B and 125B are on the next two pages.



125B Drill Template



1590B Drill Template