
GuitarPCB Present

NostalgiTone Magnetar Single

NostalgiTone MAGNETAR brings powerful, Sunn-inspired tone to your rig, with a full-range response that retains its weight and character in both standard and drop tunings. Its BURST and IMPACT controls shape its raw, amp-driven saturation, while two J201 gain stages and internal bias trims give the circuit its distinctive voice. MAGNETAR puts the focus on driving those gain stages and exploring the intensity, texture, and character of the resulting breakup.

MAGNETAR stands on its own as a powerful gain circuit, but it also excels when stacked with other overdrive and distortion pedals. Push an already driven signal into more saturation and harmonic complexity, or add another layer of aggression and density to a cleaner sound. Whether it's the main source of drive or part of a larger gain chain, MAGNETAR delivers its own bold character without sacrificing the low-end weight that makes it equally compelling in standard and drop tunings.



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.

[J201 factory soldered SMD boards are available in the shop.](#)

PART	VALUE	PART	VALUE	PART	VALUE	PART	VALUE
R1	68K	C1	220p	C8	omitted	Trim 1	20K
R2	1M	C2	100u	C9	omitted	Trim 2	20K
R3	680R	C3	220u	C10	270p		
R4	470K	C4	22n	C11	220p	IMPACT	A100K
R5	820R	C5	100n	Q1 - Q2	J201	BURST	A1M
R6	omitted	C6	470p	D1	1N5817		
R7	100K	C7	100n	D4	Status	* CLR x1	1k8 - 4k7

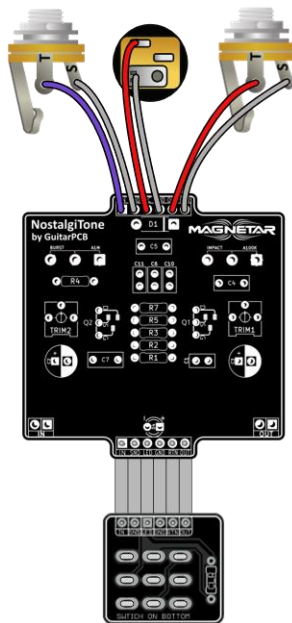
J201 factory soldered SMD boards are available in the shop.

MAGNETAR takes the two-stage JFET architecture behind SUNN tone in a more gain-focused direction, with BURST and IMPACT shaping its powerful saturation and raw, amp-driven character. It makes a natural companion to amplifiers and other overdrive and distortion circuits to add another layer of saturation and harmonic complexity.

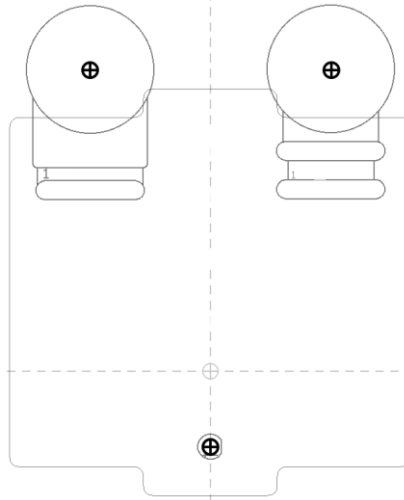
Biasing Note: With the circuit powered by 9V, connect your multimeter black probe to ground and the red probe to the Drain lead of J201 which is labeled as D on the PCB silkscreen. Adjust the bias trimmer until the reading is approximately 4.5v - 5.0V.

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.

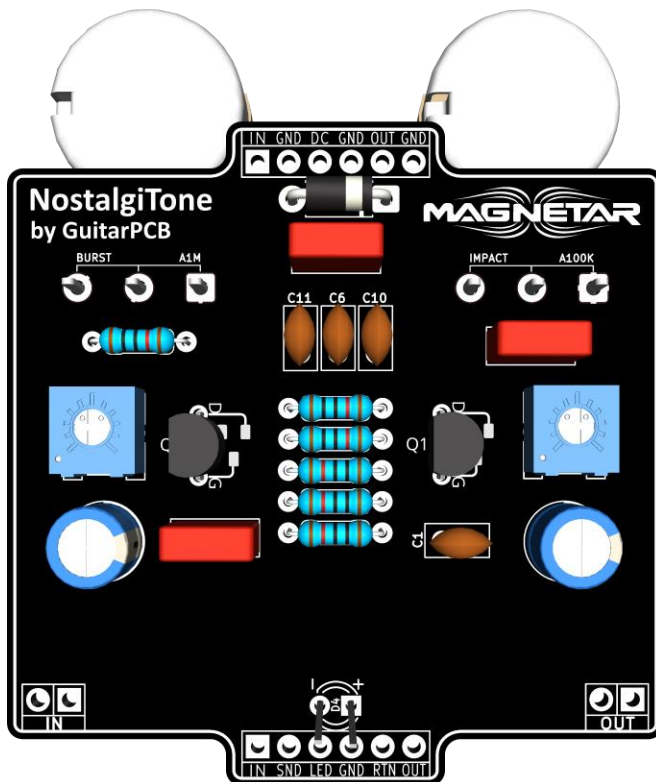
Wiring Diagram



Generic Drill Template

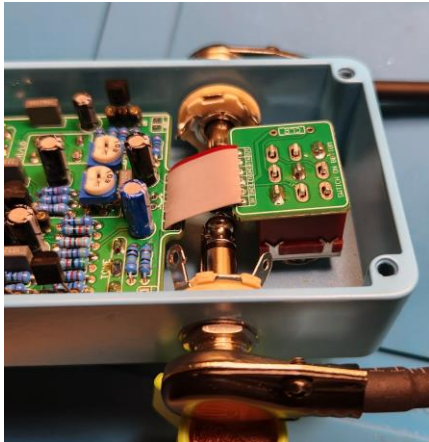


Note: Extra IN/OUT pads are located at the bottom of the PCB for convenient side jack wiring. The square pad connects the audio signal (Tip), and the round pad connects the ground.



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.

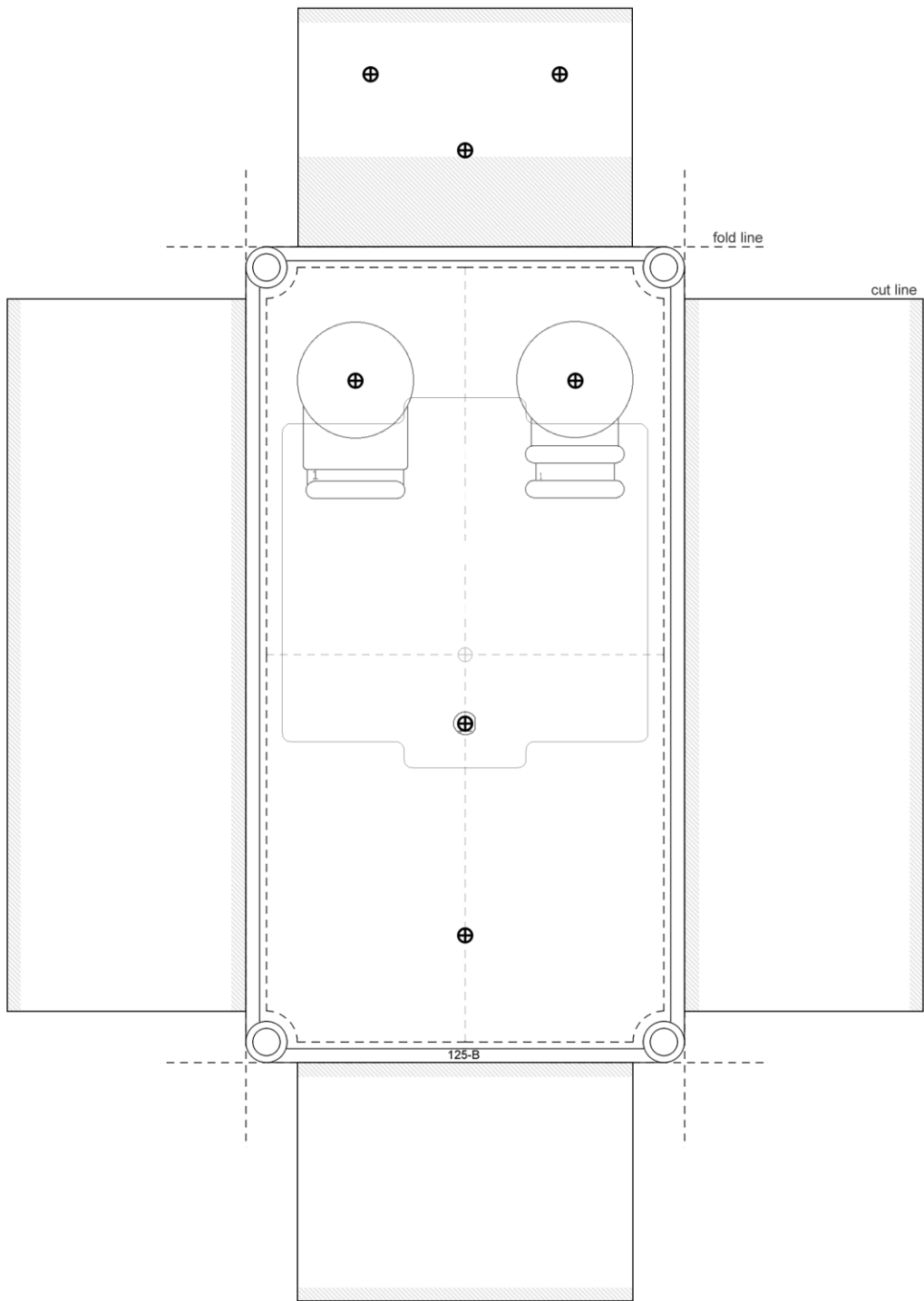


The full-size drill templates for 125B and 1590B enclosures can be found on the following two pages. Additionally, you can find a link to Tayda's pre-drilled enclosures on the shop page at GuitarPCB.com.

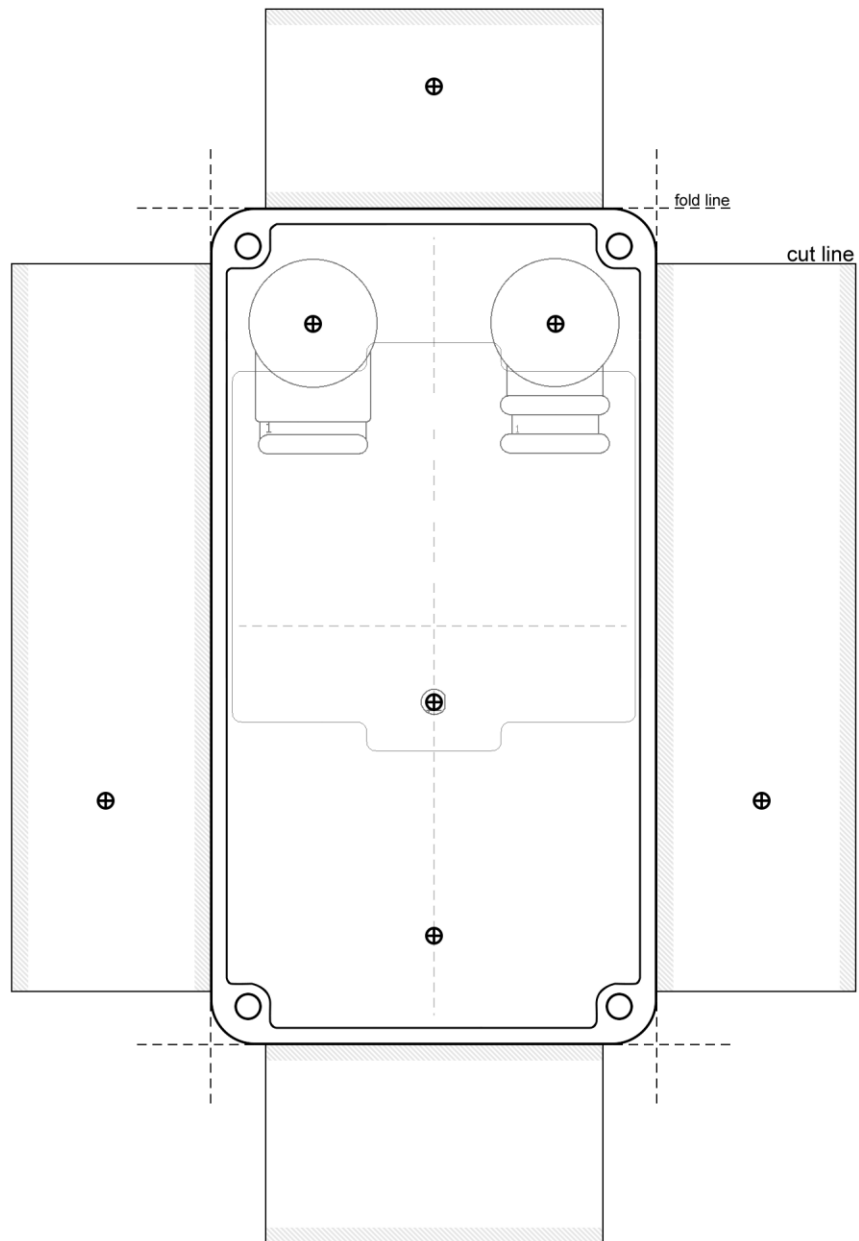


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Drill Templates for 1590B and 125B are on the next two pages.



125B Drill Template



1590B Drill Template