GuitarPCB Present

NostalgiTone Phaser

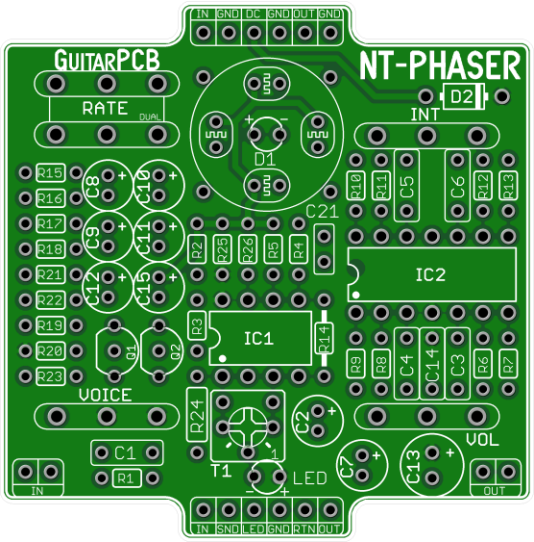
Are you ready to elevate your game? The **NostalgiTone Phaser** is here to give you the ultimate sonic experience.

Phaser: The Phaser combines elements from several iconic designs, inspired by the legendary BOSS PH1r. Using LDRs (Light Dependent Resistors) just like the original, it achieves smooth transitions between phase shifts, enhancing modulation for an organic tone. The Phaser offers precise control over Rate, Intensity, Volume, and Voice, allowing you to fine-tune your sound like never before. Enjoy reduced noise levels for a cleaner audio experience. When placed pre-distortion in your signal chain, the Phaser faithfully reproduces the classic tone, perfectly complementing other effects.

🔪 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.

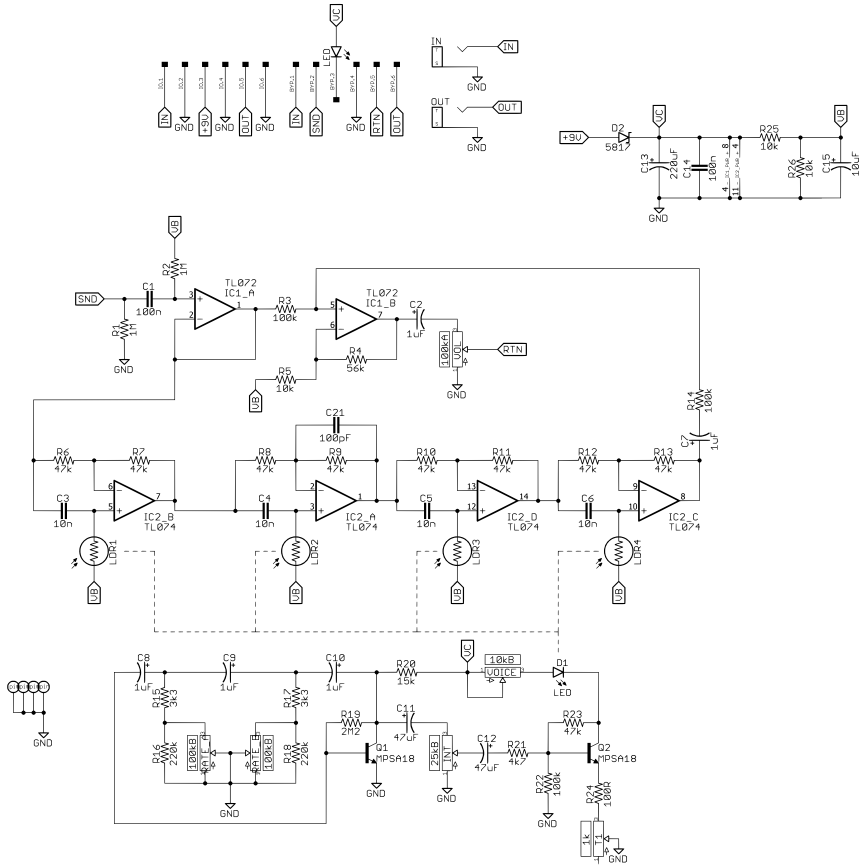
Do not settle for the ordinary when you can have extraordinary. Elevate your tone with the **NostalgiTone** series singles from GuitarPCB. Get yours today and discover a world of sonic possibilities like never before!



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:



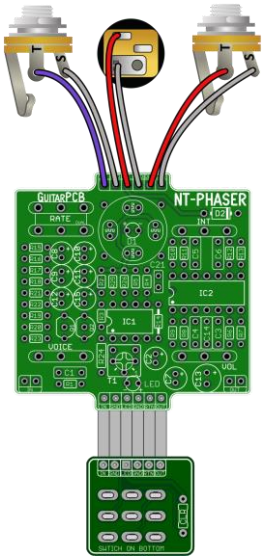
Bill of Materials:

Part	Value	Part	Value	Part	Value	Part	Value	Part	Value
R1	1M	R13	47k	R25	10k	C10	1uF	IC1	TL072
R2	1M	R14	100k	R26	10k	C11	47uF	IC2	TL074
R3	100k	R15	3k3			C12	47uF		
R4	56k	R16	220k	C1	100n	C13	220uF	T1	1K Trim
R5	10k	R17	3k3	C2	1uF	C14	100n		
R6	47k	R18	220k	C3	10n	C15	10uF	LDR 1 - 4	PDV-P9203
R7	47k	R19	2M2	C4	10n	C21	100pF	*CLR	1k8-4k7
R8	47k	R20	15k	C5	10n				
R9	47k	R21	4k7	C6	10n	D1	LFO LED	INT	B25K
R10	47k	R22	100k	C7	1uF	D2	1N5817	RATE	B100K Dual
R11	47k	R23	47k	C8	1uF	LED	Status LED	VOL	A100K
R12	47k	R24	100R	C9	1uF	Q1 - Q2	MPSA18	VOICE	B10k

Build Notes:

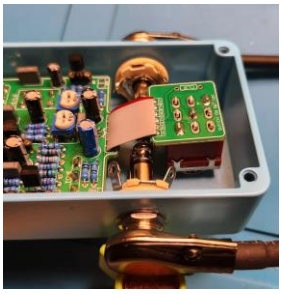
- Do not populate C1, or C13 until after installing the potentiometers. This will allow plenty of clearance for your solder tip.
- You may use flat-laying 1/8-watt resistors or standing 1/4-watt resistors. Adjust how you populate the PCB accordingly.
- T1: LED trimmer provides more control over the LFO LED brightness. Set to middle position and adjust if needed.
- LDR 1 - 4 requires part PDV-P9203. Do not substitute. D1 requires a Yellow or clear White LED (3mm or 5mm).
- Use a 6-pin ribbon cable to connect the 3PDT foot switch wiring board with the main board. It contains an onboard **(*CLR)** current limiting resistor. This is to adjust the brightness of the main board status LED. A value of 1k8 to 4k7 may be used. 1k8 is brightest.
- Note the extra IN / OUT pads located at the bottom of the PCB are conveniently placed if you wish to use side jacks.
- Use a small spacer of non-conductive material to place between the dual gang pot and the solder side of the PCB before soldering.

Wiring Diagram



Controls: For an optimal Phaser circuit experience, begin with all controls centered at noon. Set the Volume control at a reasonable level to complement the other circuits. Adjust the Rate control to your preference. Fine-tune the Intensity, starting at the classic noon position. The Voice control adds or subtracts low-end tones, making noon an ideal starting point. Explore these settings to craft your perfect Phaser tone.

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



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

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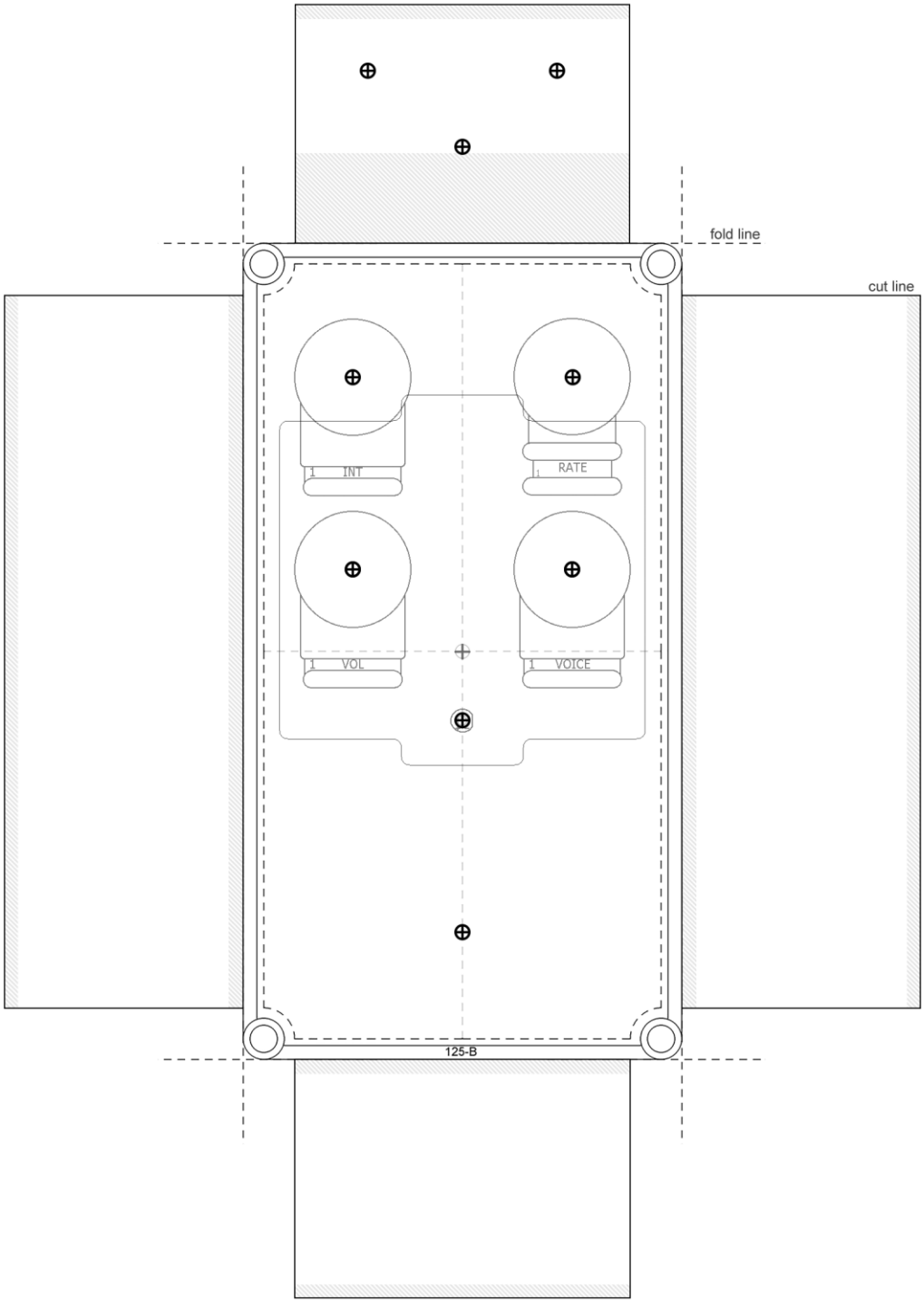
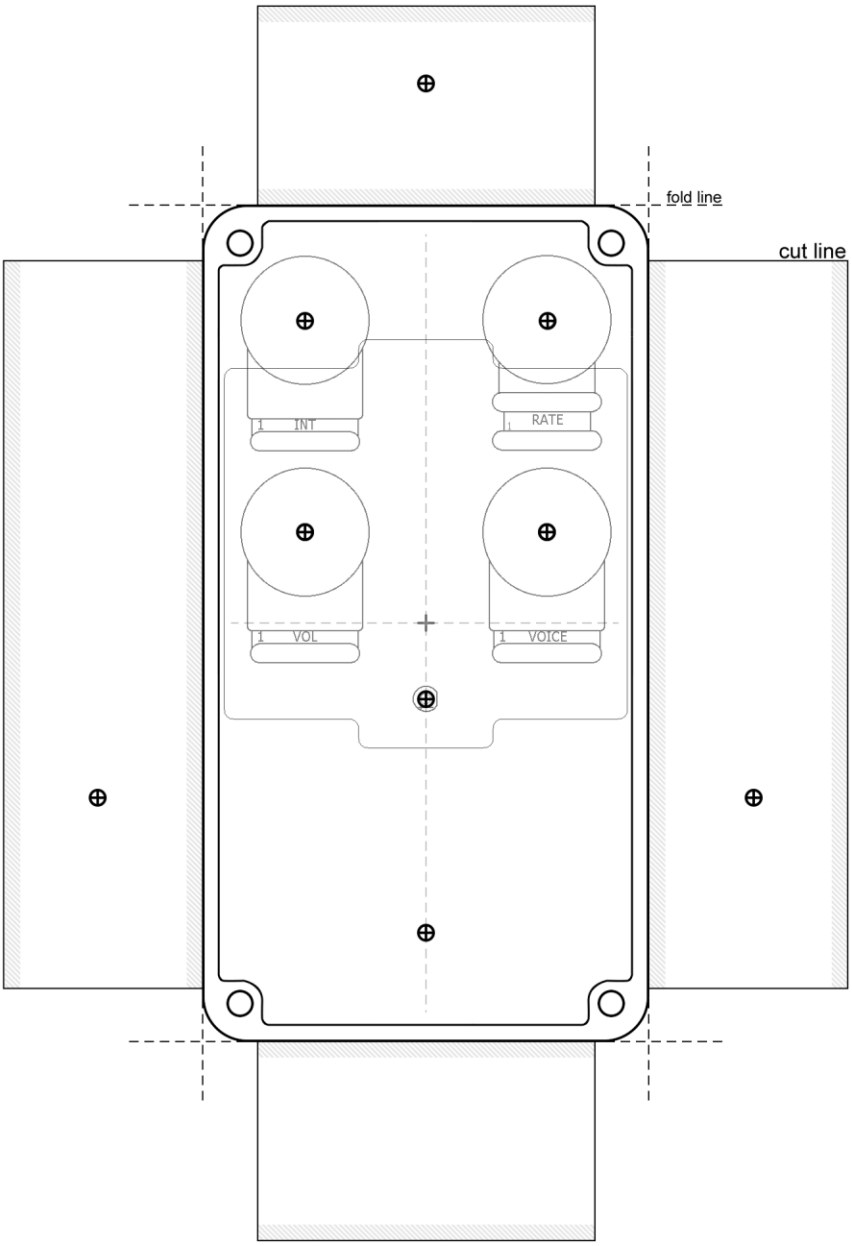


125B Drill Template



1590B Drill Template