GuitarPCB Present

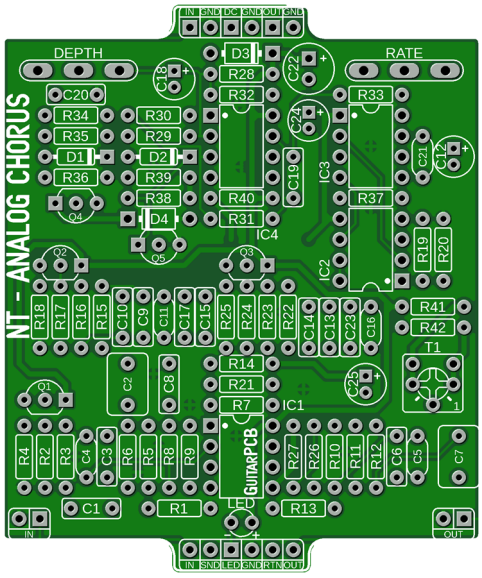
NostalgiTone Analog Chorus Single

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

> **Analog Chorus**: Inspired by the BOSS® CE-2 Chorus Ensemble, first released in 1979, the **NostalgiTone Analog Chorus** captures the essence of the original pedal, famously used by David Gilmour and Eric Clapton. Renowned for its warm, rich analog chorus sound, it offers a milder modulation compared to its predecessor, the CE-1, ensuring the guitar tone remains sharp and well-defined. With just two knobs—**Rate** and **Depth**—it's simple to operate but provides captivating chorus effects, from subtle ambiance to lush, spatial modulation. Whether you're recreating iconic sounds or crafting your own, the **NostalgiTone Analog Chorus** delivers timeless tone with ease.
>
> The **NostalgiTone Analog Chorus** is designed to use the **V3207 / V3102** chipset combo. While you may use the obsolete **MN3207 / MN3102** version, it is **not recommended** due to the large number of counterfeit chips. To ensure the best performance, I strongly recommend sourcing the **V3207D** and **V3102D** chips. These are typically available from reputable sources—use Google to locate a trusted supplier.

🔌 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.

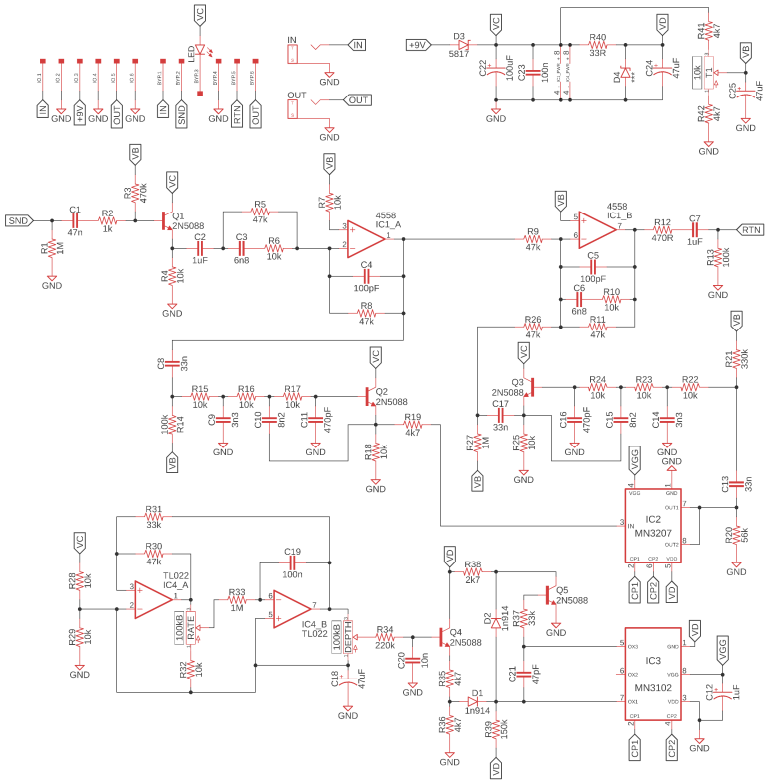
🛠️ Available Components: We recognize the hurdles of component availability. Rest assured, we've carefully selected components for the **NostalgiTone** series currently available from today's popular vendors.



Mainboard Dimensions – 2.35" x 2.78" – Sized for a 125B enclosure only.

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

Schematic:



Bill of Materials:

Part	Value
R1	1M
R2	1k
R3	470k
R4	10k
R5	47k
R6	10k
R7	10k
R8	47k
R9	47k
R10	10k
R11	47k
R12	470R
R13	100k
R14	100k
R15	10k
R16	10k

Part	Value
R17	10k
R18	10k
R19	4k7
R20	56k
R21	330k
R22	10k
R23	10k
R24	10k
R25	10k
R26	47k
R27	1M
R28	10k
R29	10k
R30	47k
R31	33k
R32	10k

Part	Value
R33	1M
R34	220k
R35	4k7
R36	4k7
R37	33k
R38	2k7
R39	150k
R40	33R
R41	4k7
R42	4k7
LED	Status LED
C1	47n
C2	1uF
C3	6n8
C4	100pF
C5	100pF

Part	Value
C6	6n8
C7	1uF
C8	33n
C9	3n3
C10	8n2
C11	470pF
C12	1uF
C13	33n
C14	3n3
C15	8n2
C16	470pF
C17	33n
C18	47uF
C19	100n
C20	10n
C21	47pF

Part	Value
C22	100uF
C23	100n
C24	47uF
C25	47uF
IC1	RC4558
IC2	V3207
IC3	V3102
IC4	TL022
DEPTH	B100K
RATE	B100K
T1 Trim	10k
* CLR	1k8 - 4k7
Q1 - Q5	2N5088
D1 - D2	1N914
D3	1N5817
D4	1N4739 / 9.1v

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. This simplifies the wiring process while keeping troubleshooting and noise to a minimum.

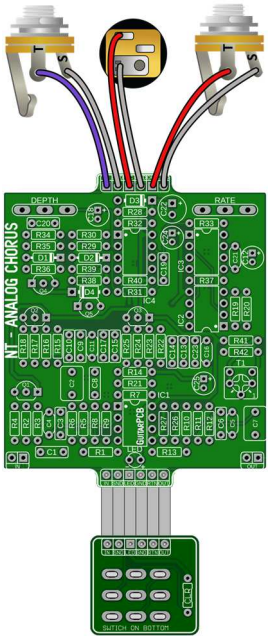
* **LED** mounting: A main Status LED is to show the active status. You must use a 1k8 (Bright) to 4k7 (Dim) **CLR** mounted on the wiring board.

Biasing: Set your Rate and Depth to maximum. Adjust T1 trimmer until you get the maximum chorus effect. **USE TL022** No substitution!

MODS: The original CE-2 was not designed for fast vibrato. Modifying the LFO can achieve a faster max speed, but it shifts the slowest speed forward. To experiment with speed ranges, socket C19 and swap it with an 82n or 68n capacitor, or use a DPDT On/On switch with one of our DPDT wiring boards for easy switching between speed ranges. **Note:** Mods are not typically available through KIT SUPPLIERS.

Bass Mod: Replace C17 (33n) with 12n. **Intensity Mod:** replace C21 (47pF) with 68pF to 100pF to increase intensity.

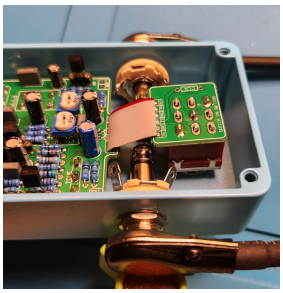
Wiring Diagram



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

Use a 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 protect and adjust the brightness of their corresponding main board status LEDs. A value of 1k8 to 4k7 may be used.

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 can be found on the following page. Additionally, you can find a link to Tayda's pre-drilled enclosures on the shop page at GuitarPCB.com.

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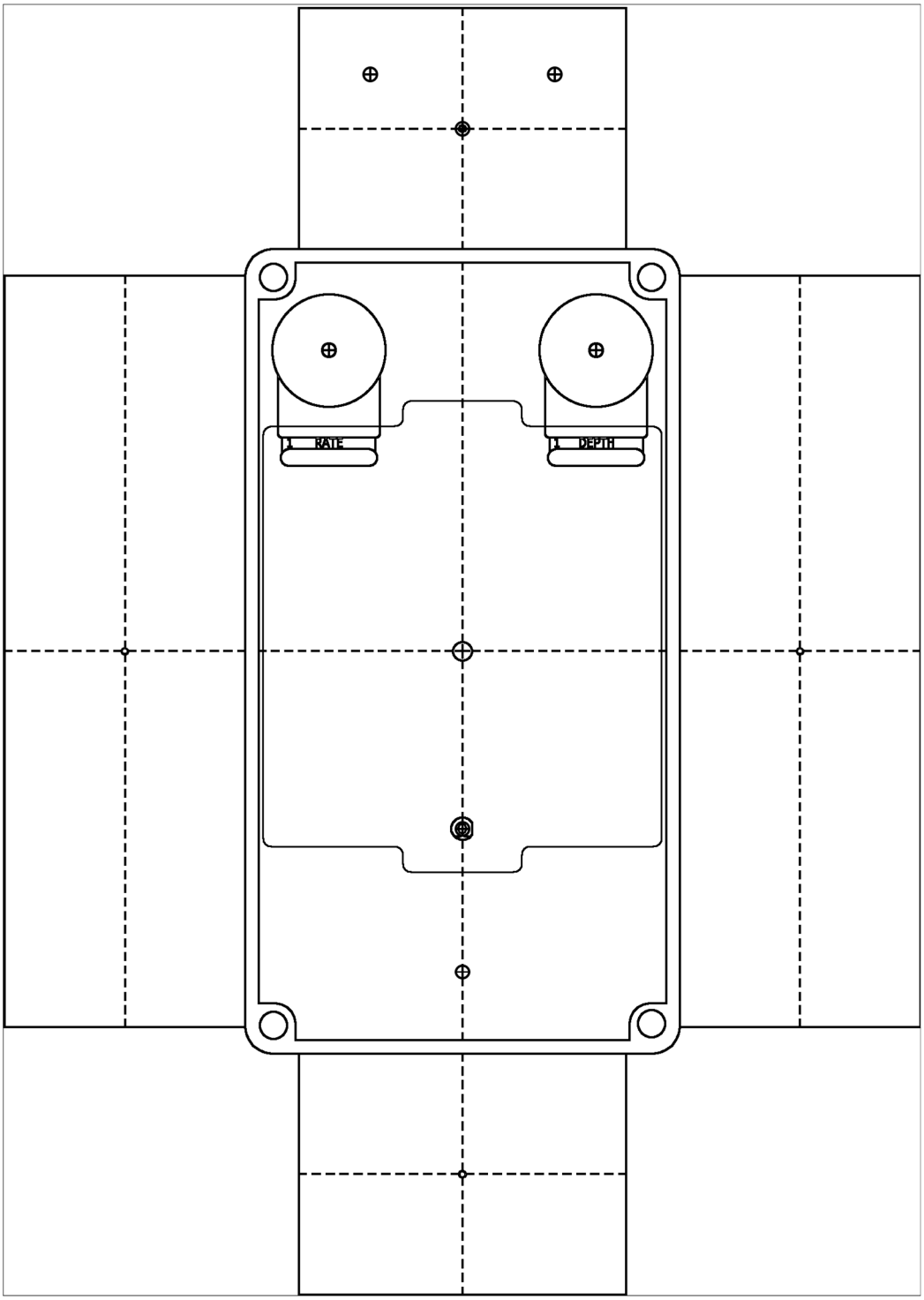

125B Drill Template

This project will not fit into a 1590B