GuitarPCB Present

NostalgiTone “The Mule” Single

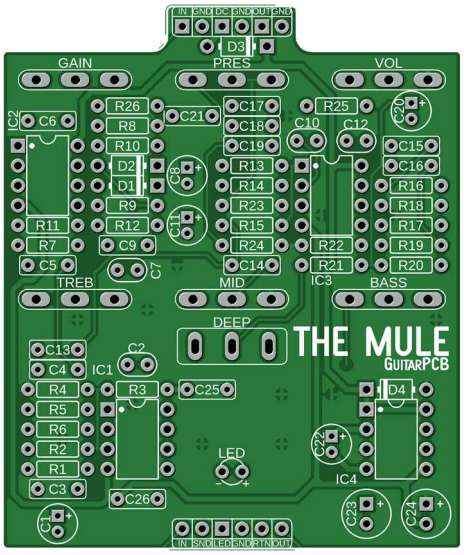
Are you ready to elevate your game? **The Mule** is here to give you the ultimate sonic experience.

> **The Mule is the most versatile preamp in the NostalgiTone series, offering a full EQ section with Bass, Mid, Treble, Presence, and a Tight switch for superior tone control. Based on one of the most iconic high-gain amps of the late '80s and early '90s, this Super Lead Overdrive-inspired circuit delivers saturated lead tones, articulate cleans, and everything in between making it a standout choice for serious builders.**

🔌 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.

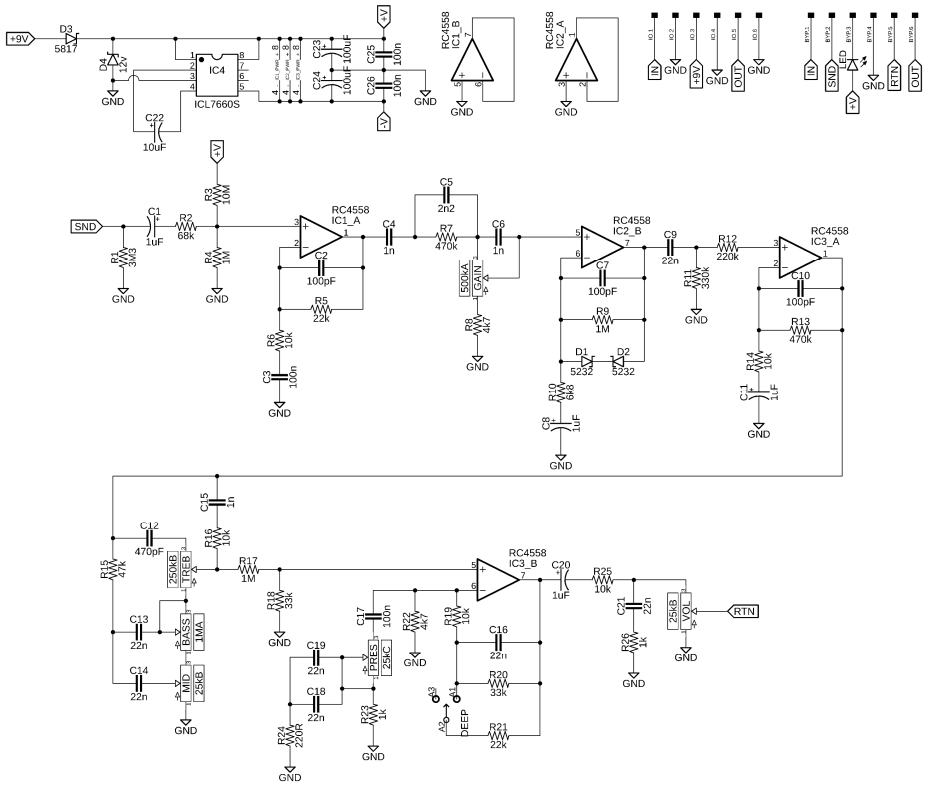
Do not settle for the ordinary when you can have extraordinary. Elevate your tone with the **NostalgiTone** series singles from GuitarPCB. Get yours today and discover a world of sonic possibilities like never before!



Mainboard Dimensions – 2.35” x 2.78” – Exclusively sized for a 125B enclosure.

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

Schematic:



Bill of Materials:

Part	Value
R1	3M3
R2	68k
R3	10M
R4	1M
R5	22k
R6	10k
R7	470k
R8	4k7
R9	1M
R10	6k8
R11	330k
R12	220k
R13	470k

Part	Value
R14	10k
R15	47k
R16	10k
R17	1M
R18	33k
R19	10k
R20	33k
R21	22k
R22	4k7
R23	1k
R24	220R
R25	10k
R26	1k

Part	Value
C1	1uF
C2	100pF
C3	100n
C4	1n
C5	2n2
C6	1n
C7	100pF
C8	1uF
C9	22n
C10	100pF
C11	1uF
C12	470pF
C13	22n

Part	Value
C14	22n
C15	1n
C16	22n
C17	100n
C18	22n
C19	22n
C20	1uF
C21	22n
C22	10uF
C23	100uF
C24	100uF
C25	100n
C26	100n

Part	Value
IC1 - IC3	RC4558
IC4	ICL7660S
D1 - D2	1N5232 - 5.6v
D3	1N5817
D4	1N4742A - 12v
LED + *CLR	Status
VOL	B25K
PRES	C25K
GAIN	A500K
BASS	A1M
MID	B25K
TREB	B250K
DEEP	SPDT switch

Build Notes:

Presence POT: In place of the C25K pot, a C20K pot may be used since potentiometers have a wide tolerance. A W taper is also suitable, as it combines C taper behavior for the first half of its rotation and A taper for the second.

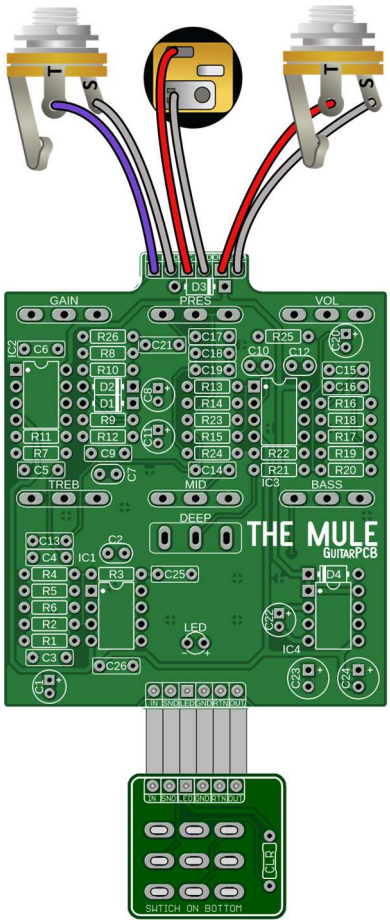
D1 and D2 require 5.6V Zener diodes (no substitutions), while D4 requires a 12V Zener diode. Do not mix them up, as each serves a specific purpose in the circuit. For D4, a Zener diode rated between 10V and 12V is acceptable.

***CLR** (Current Limiting Resistor) controls and protects the brightness of the main board's status **LED** and is located on each 3PDT foot switch wiring board. Use a standard 6-pin ribbon cable to connect the foot switch wiring board to the main board. ***CLR** should be set between 1k8 (brighter) and 4k7 (dimmer), depending on your preferred LED brightness.

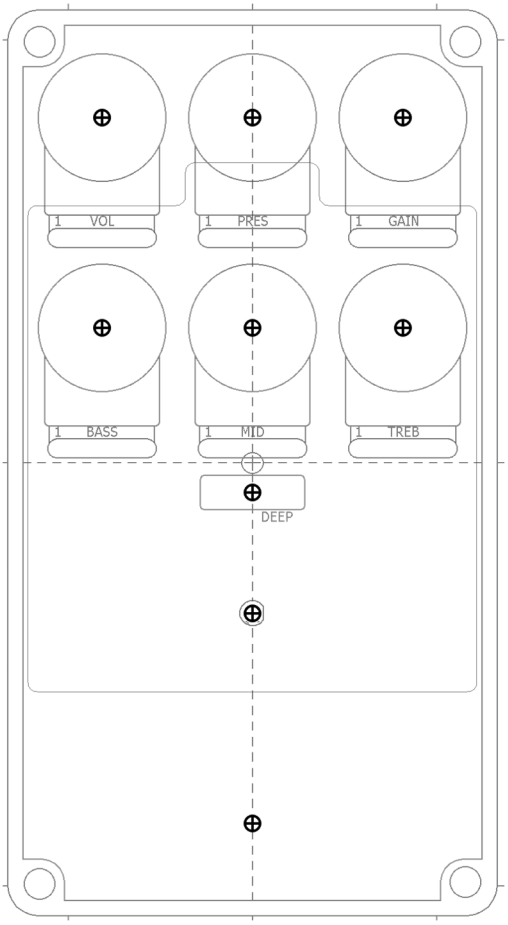
This project is **specifically designed for a 125B** enclosure and **will not fit** in a 1590B. If you're using the **Dual Combo Creator PCB** for creating a custom dual combo, it will not fit in a 1590BB2. For that setup, you'll need to use a **1590XX** or **1790NS** enclosure instead.

Only use a 9-volt Negative Tip power Supply. Do not use higher voltages to prevent damage to the Charge Pump.

Wiring Diagram



Generic Drill Template



Note: CLR on the wiring board must be used.

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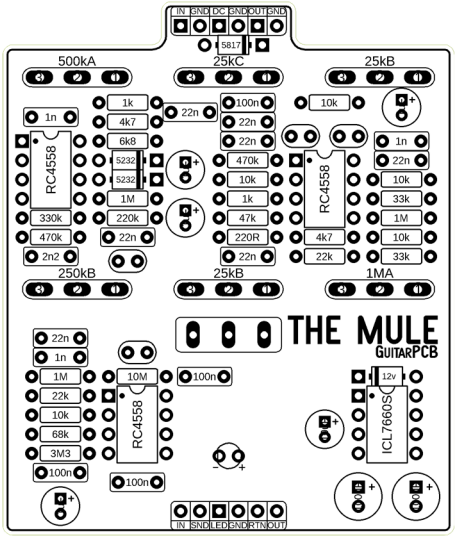
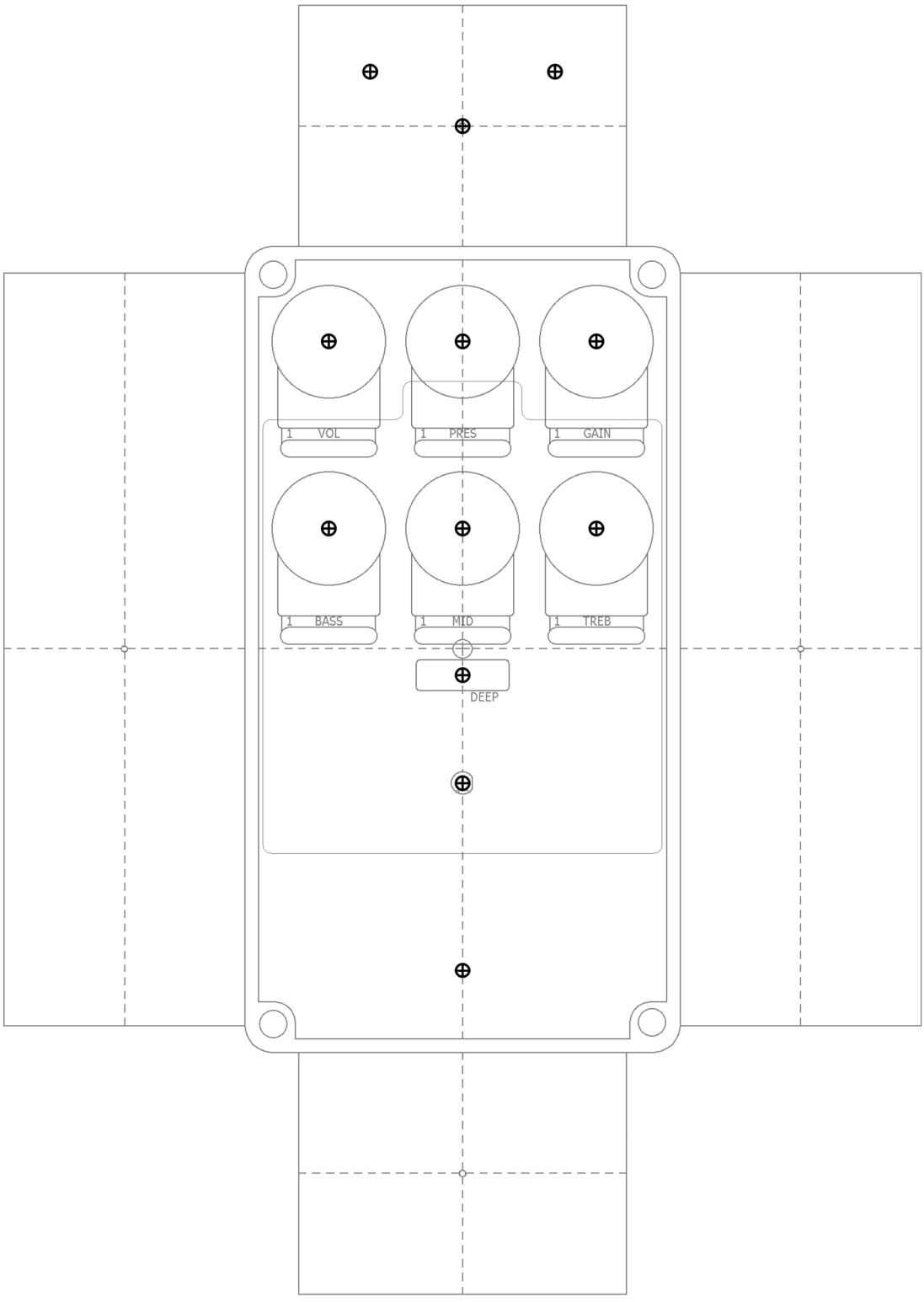


Drill Templates for 125B are on the next page.



125B Drill Template

(125B only, it will not fit into a 1590B)