# GuitarPCB Present

## NostalgiTone CitrusAmp Single

**Classic British rock character with the bold voice of vintage Orange-inspired amplification.**

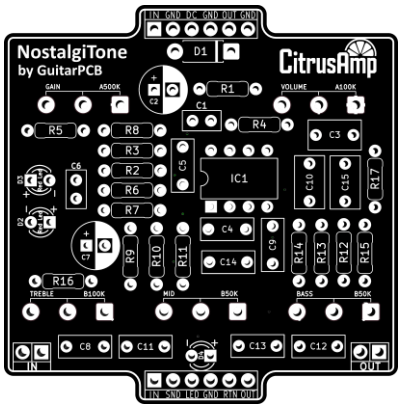
**CitrusAmp captures the unmistakable voice of the legendary British Orange amplifiers that powered the stages of the 1970s rock era. Delivering a massive low-end foundation, rich harmonic texture, and the unmistakable wall-of-sound character that defined classic Orange-style amplification, CitrusAmp brings that iconic amplifier character to a compact pedal format.**

**This powerful preamp features an active 3-band EQ. CitrusAmp puts true amplifier-style tone shaping at your fingertips. Sculpt the Bass, Middle, and Treble controls to move from vintage British crunch and singing lead tones to heavier modern rock voices, all while preserving the touch response and feel of a driven amplifier.**

🔌 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.

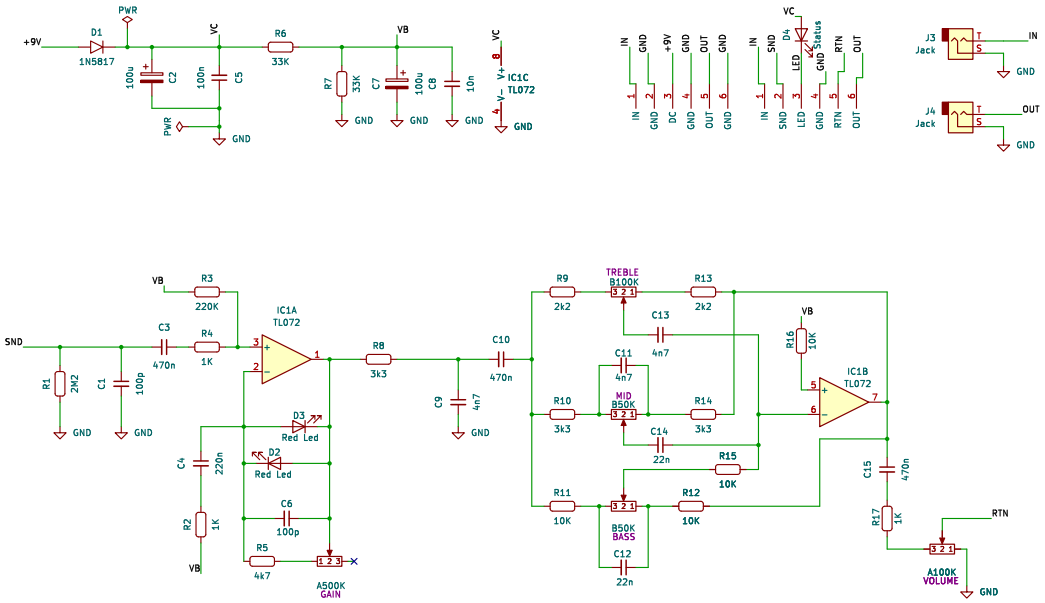
Do not settle for the ordinary when you can have extraordinary. Elevate your tone with the **NostalgiTone** series singles from GuitarPCB. Get yours today and discover a world of sonic possibilities like never before!




**Mainboard Dimensions – 2.10" x 2.12"**

**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 | 2M2 | R10 | 3k3 | C1 | 100p | C10 | 470n | IC1 | TL072 |
| R2 | 1K | R11 | 10K | C2 | 100u | C11 | 4n7 | | |
| R3 | 220K | R12 | 10K | C3 | 470n | C12 | 22n | GAIN | A500K |
| R4 | 1K | R13 | 2k2 | C4 | 220n | C13 | 4n7 | TREBLE | B100K |
| R5 | 4k7 | R14 | 3k3 | C5 | 100n | C14 | 22n | MID | B50K |
| R6 | 33K | R15 | 10K | C6 | 100p | C15 | 470n | BASS | B50K |
| R7 | 33K | R16 | 10K | C7 | 100u | D1 | 1N5817 | VOLUME | A100K |
| R8 | 3k3 | R17 | 1K | C8 | 10n | D2 - D3 | Red Led | | |
| R9 | 2k2 | | | C9 | 4n7 | D4 | Status | * CLR x1 | 1k8 - 4k7 |

Bill of Materials represents Kit values. Mods are not included with Kits.

## 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.

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

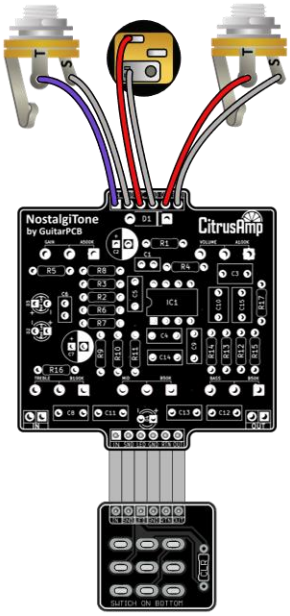
Use a standard 6-pin ribbon cable to connect the foot switch wiring board with the main board. The 3PDT wiring board contains an onboard (CLR) current limiting resistor. This is to protect and adjust the brightness of their corresponding main board status LEDs. A value of 1k8 to 4k7 may be used.

* 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.

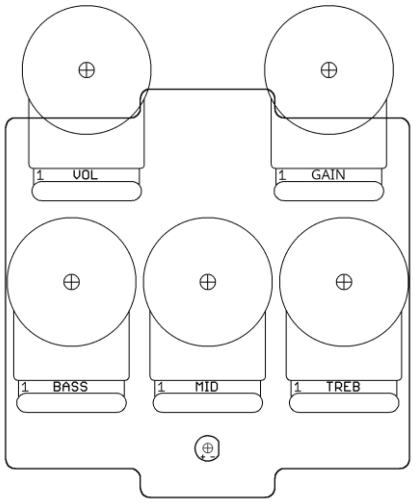
**Optional Low-End Extension Mod:** CitrusAmp is voiced with a balanced amplifier-style low end using the stock 22n C12 value. For detuned guitars, baritone guitars, or extended-range instruments, experiment with increasing C12 to 33n or 47n to extend the Bass control further into the low-frequency range.

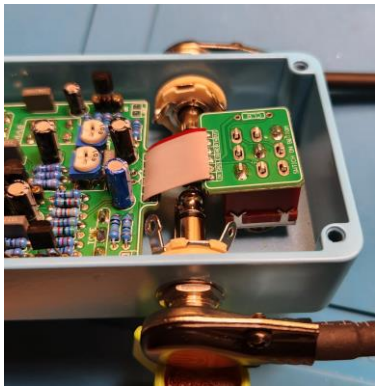
**Optional Saturation Mod:** CitrusAmp is voiced to capture the open, dynamic character of early British amplifier tones. For builders looking for a more saturated and compressed response, replace the stock red LED clipping pair with **1N5817 Schottky diodes** for earlier clipping, increased saturation, and a more aggressive distortion character. The PCB pads are designed for LED installation, so the 1N5817 diodes will need to be mounted vertically. Match the original LED polarity by observing the correct **anode and cathode orientation** before installation.

**Wiring Diagram**

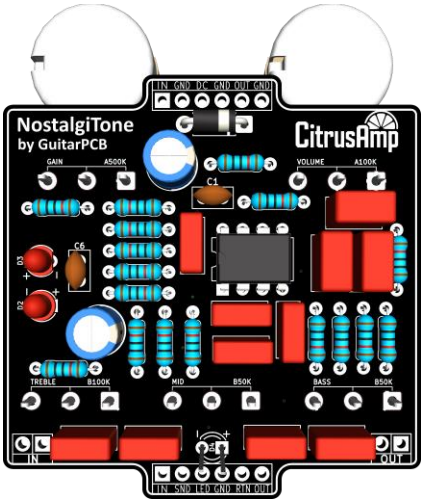



**Generic Drill Template**



**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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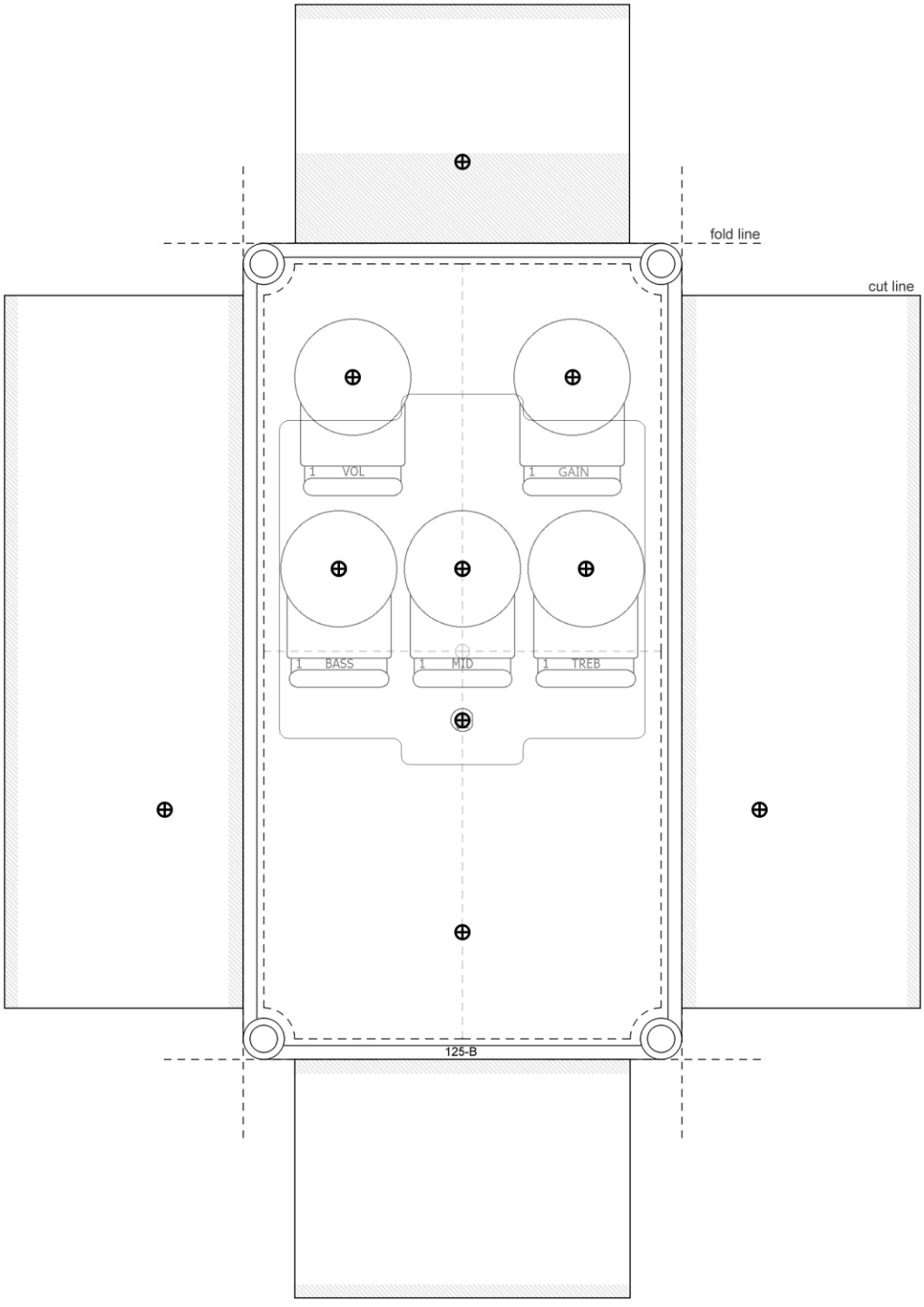
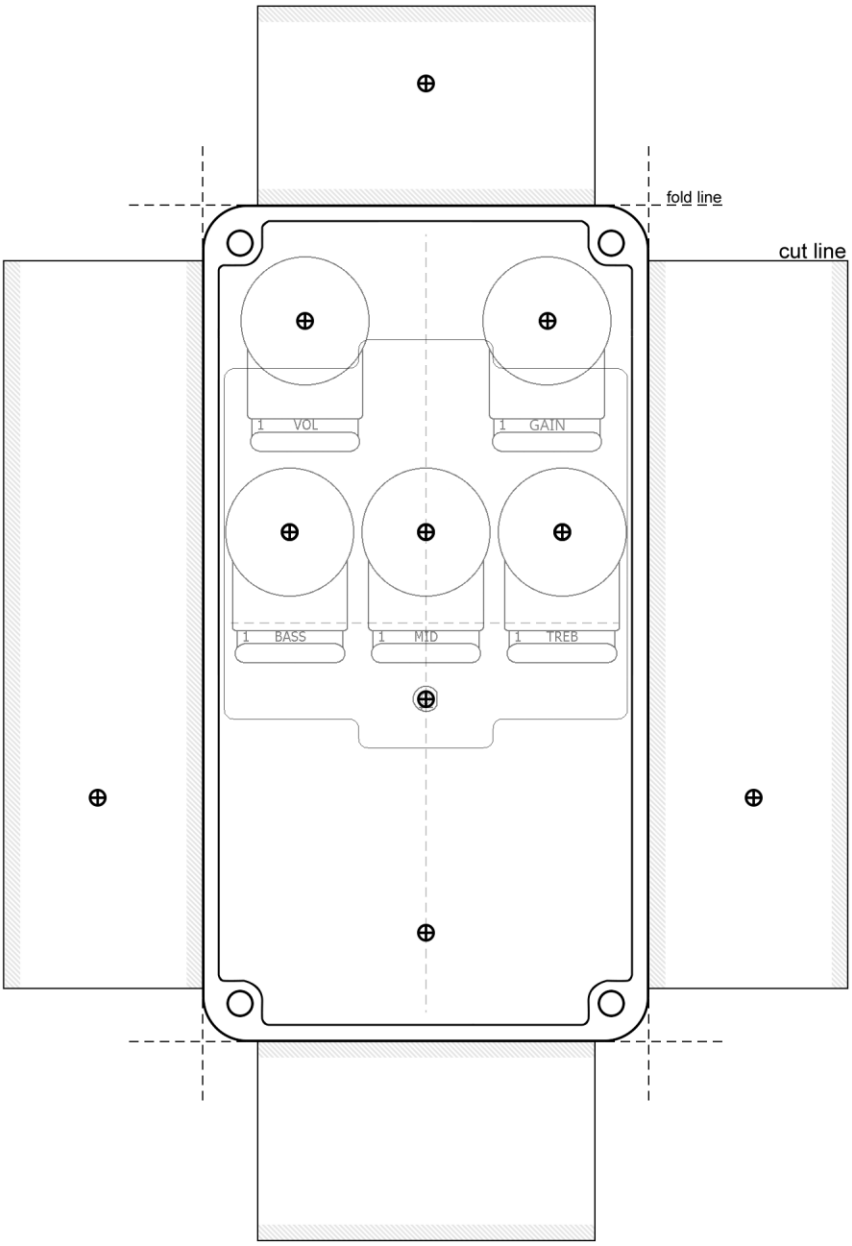



**125B Drill Template**




**1590B Drill Template**