
GuitarPCB Presents

NostalgiTone Compressor Single

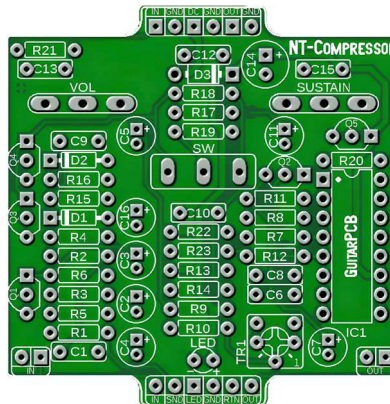
Are you ready to elevate your game? The **NostalgiTone Compressor** is here to give you the ultimate sonic experience.

Compressor: The Compressor is a versatile tool, offering both subtle tone smoothing and heavy compression. The Volume knob adjusts the overall output, allowing for unity gain or a boost. The Sustain knob controls the compression level, ranging from light compression for tap solos and arpeggios to a satisfying squash, perfect for country, blues, and Southern Fried rock. The Attack switch (SW1) fine-tunes the compression's response to match your playing style.

🔧 **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.

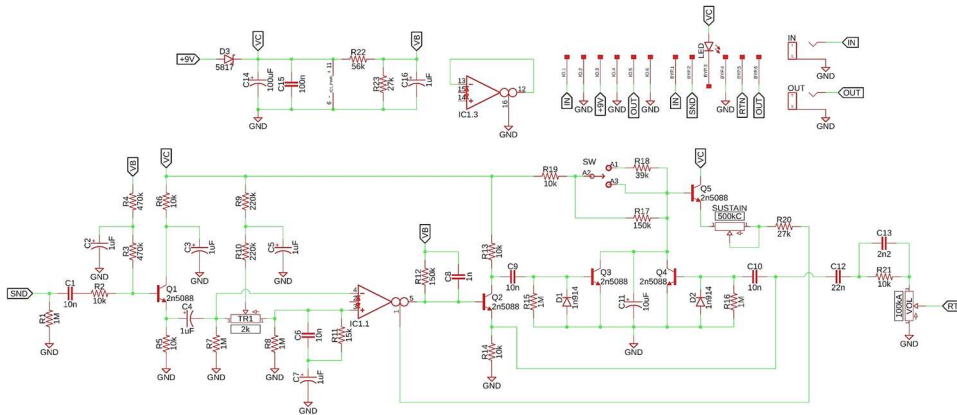
Do not settle for the ordinary when you can have extraordinary. Elevate your tone with the **NostalgiTone** series singles from GuitarPCB. Get yours today and discover a world of sonic possibilities like never before!



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
R1	1M	R15	1M	C5	1uF	Volume	A100K
R2	10k	R16	1M	C6	10n	Sustain	C500K
R3	470k	R17	150k	C7	1uF		
R4	470k	R18	39k	C8	1n	SW - SPDT	On-Off_On
R5	10k	R19	10k	C9	10n	TR1	2k
R6	10k	R20	27k	C10	10n		
R7	1M	R21	10k	C11	10uF	D1 - D2	1N914
R8	1M	R22	56k	C12	22n	D3	1N5817
R9	220k	R23	27k	C13	2n2		
R10	220k			C14	100uF	IC1	LM13700
R11	15k	C1	10n	C15	100n		
R12	150k	C2	1uF	C16	1uF	Q1 - Q5	2N5088
R13	10k	C3	1uF			LED	Status
R14	10k	C4	1uF			*CLR x 1	1k8 - 4k7

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. Value 1k8 to 4k7.

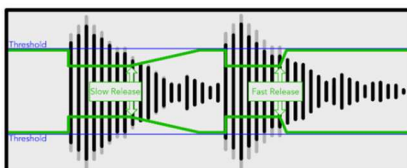
* **CLR x1** - Each wiring board requires an onboard (CLR) current limiting resistor. This is for the main board status LEDs. A 1k8 (Bright) value to 4k7 (Dim) may be used. A main Status LED is to show the active status.

TR1 – This is a fine tolerance adjustment. Start by centering the trimmer. Using your digital multimeter (DMM), place the black probe on any ground and the red probe on leads 1 and 3, one at a time. Adjust the trimmer until the readings on both leads are as close to equal as possible.

Compressor Attack explained:

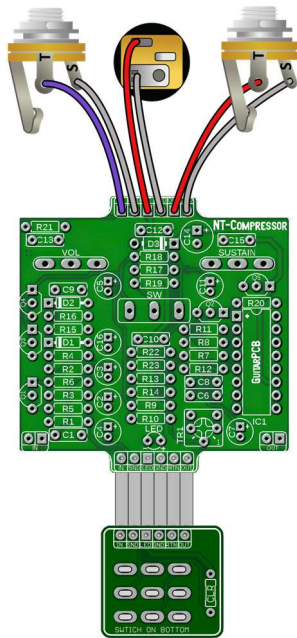
The speed at which Q5 turns on depends on how fast C11 changes from a discharged to a charged state; this is controlled by the resistance value of R17-R19, smaller resistance - faster capacitor charging - quicker turn-on time for Q5.

- SW1 UP: 10k (150k shorted). This is the fastest release time.
- SW1 MIDDLE: 10k + 150k in series which is the longest release.
- SW1 DOWN: 10k + 39k (which is in parallel to the 150k) is medium attack.

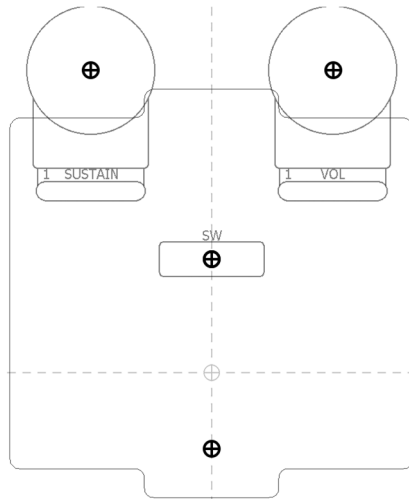


While it does not affect the overall tone a fast attack setting will reduce the volume of the initial pick strike, and depending on the amount of sustain, this can sound dramatic. For a natural, transparent effect, a slower attack time will let the initial pick or finger attack through.

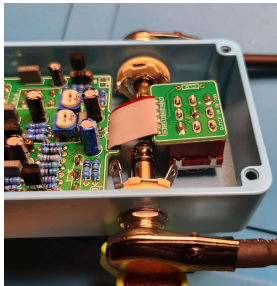
Wiring Diagram



Generic Drill Template



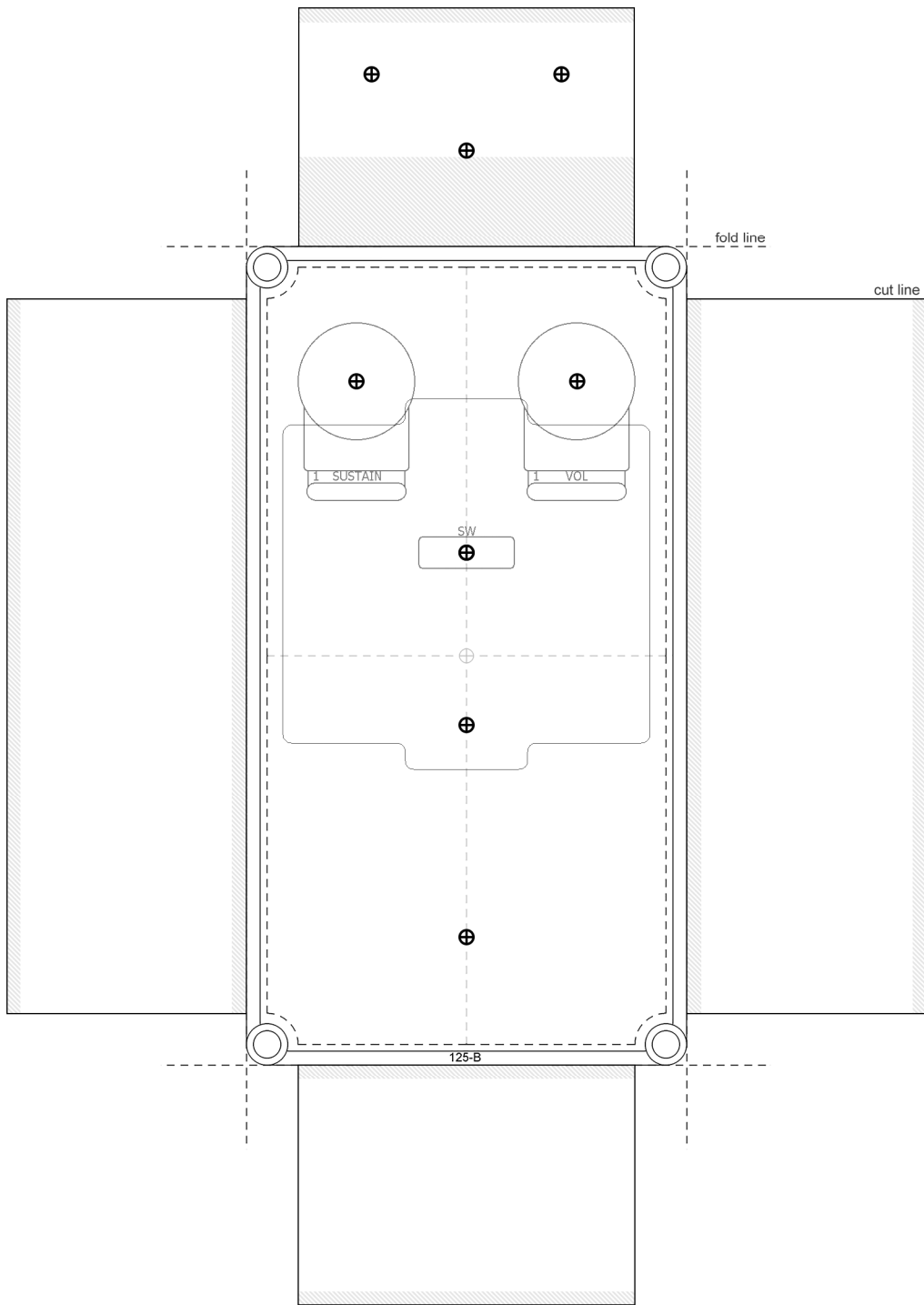
When using 1590B enclosures, it is best to mount the ribbon cable on top of the main board/3PDT wiring board instead of underneath. This is because the enclosure's compact size restricts space for the side jack Input and Output plugs.



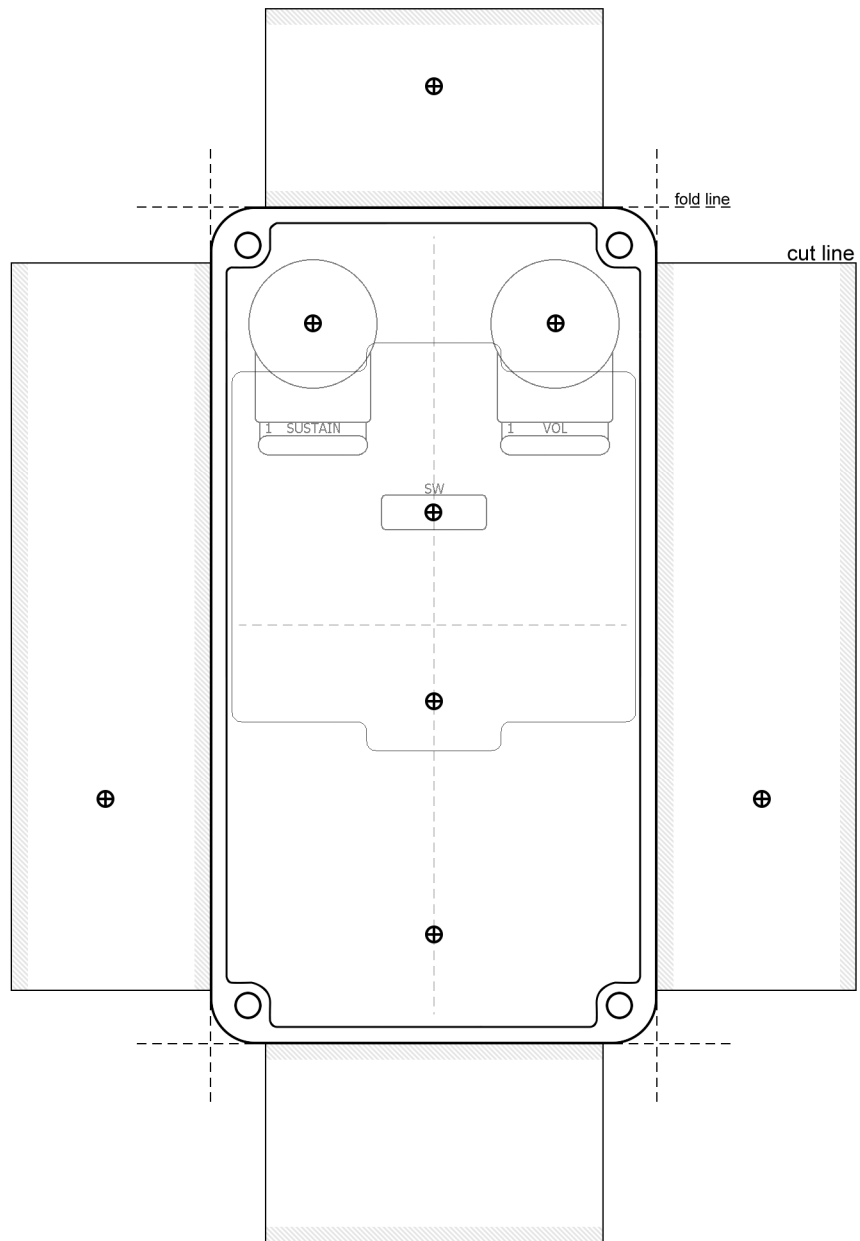
The full-size drill templates for 125B and 1590B enclosures can be found on the following two pages. Additionally, you can find a link to Tayda's pre-drilled enclosures on the shop page at GuitarPCB.com.



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125B Drill Template



1590B Drill Template