
GuitarPCB Presents

NostalgiTone AmpEQ Single

Active EQ Preamp. Amplifier-Style Control.

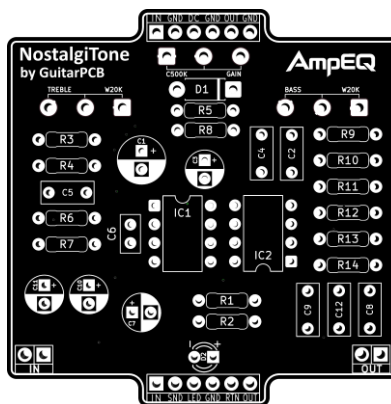
AmpEQ is an active EQ preamp designed to shape your tone without sacrificing clarity. Featuring up to +26 dB of adjustable gain and active Bass and Treble controls, AmpEQ delivers both boost and precise tonal shaping while preserving the natural character of your guitar, pedals, and amplifier.

Its active Bass and Treble EQ provides true boost and cut capability, allowing you to add warmth to brighter guitars, tighten the low end of darker-sounding instruments, or enhance clarity and presence while preserving the dynamics and character of your original signal.

Alternatively, when placed in an amplifier's effects loop after the preamp stage, AmpEQ becomes an effective tone-shaping tool for fine-tuning your amplifier's response to different rooms, speakers, and playing environments without increasing preamp gain or changing your amplifier's core character.

 **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.

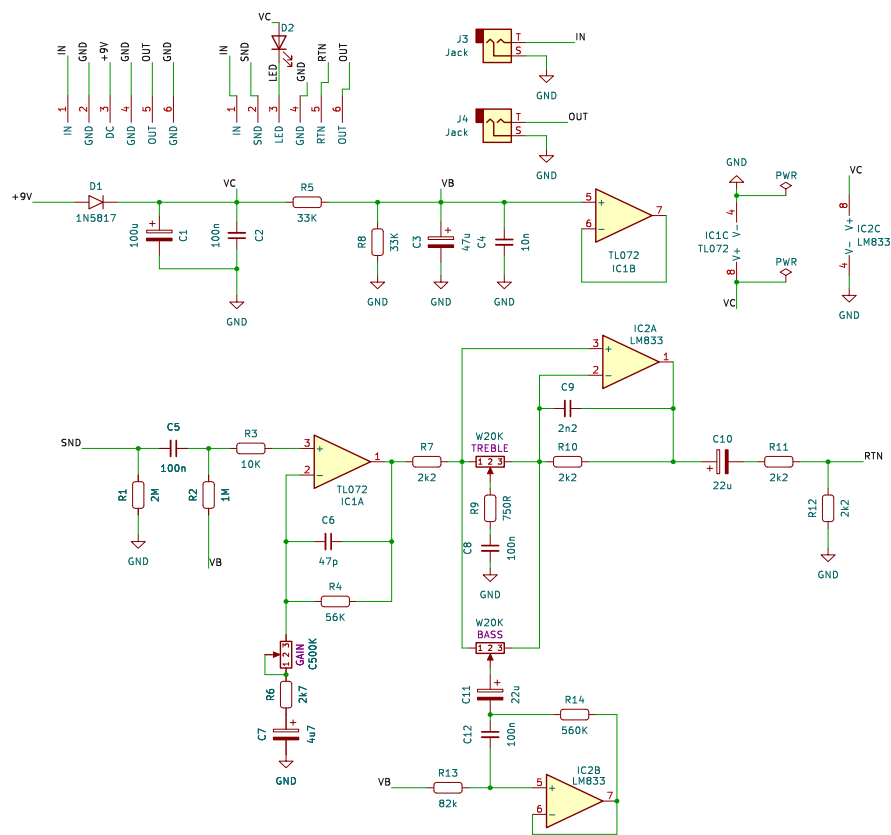
 **Available Components:** We recognize the hurdles of component availability. Rest assured, we've carefully selected components for the **NostalgiTone** series currently available from today's popular vendors.



Mainboard Dimensions – 2.10" 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	2M	R8	33K	C1	100u	C8	100n	D2	Status LED
R2	1M	R9	750R	C2	100n	C9	2n2	IC1	TL072
R3	10K	R10	2k2	C3	47u	C10	22u	IC2	LM833
R4	56K	R11	2k2	C4	10n	C11	22u	GAIN	C500K
R5	33K	R12	2k2	C5	100n	C12	100n	BASS	W20K
R6	2k7	R13	82k	C6	47p			TREBLE	W20K
R7	2k2	R14	560K	C7	4u7	D1	1N5817	* CLR x1	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.

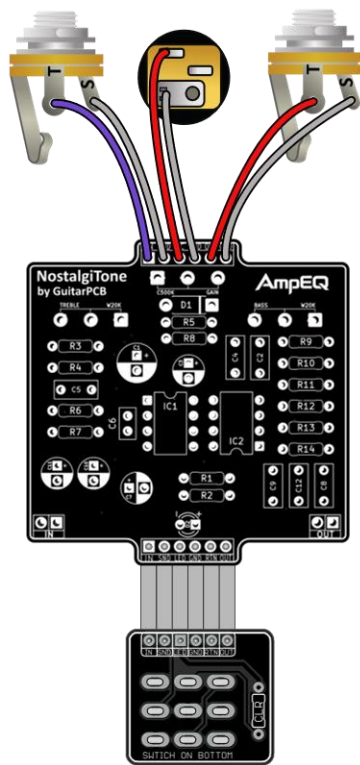
Note the extra IN / Out pads located at the bottom of the PCB which are conveniently placed if you wish to use side jacks.

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. A value of 1k8 to 4k7 may be used.

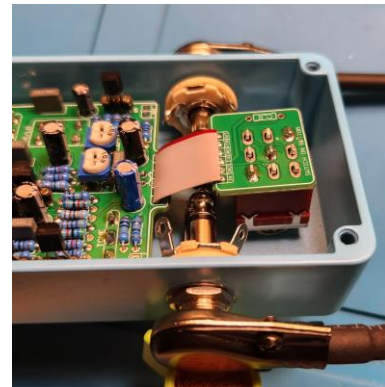
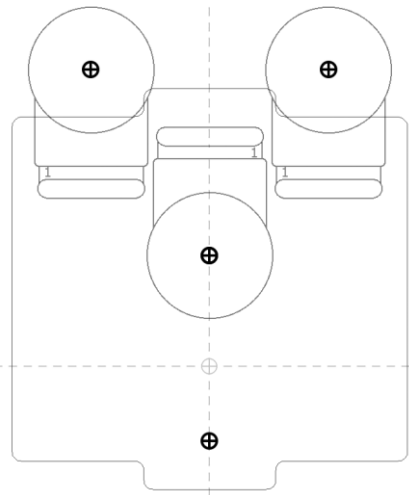
* CLR x1 - Each wiring board requires an onboard (CLR) current limiting resistor. This is for the main board status LEDs. A 1k8 (Bright) value to 4k7 (Dim) may be used. A main Status LED is to show the active status.

Start with all controls set to noon 12:00. Since the Bass and Treble controls are Active you can Boost or Cut from there as needed.

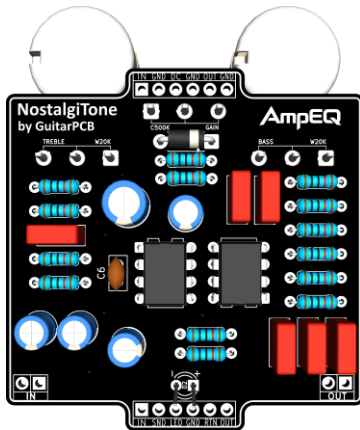
Wiring Diagram



Generic Drill Template

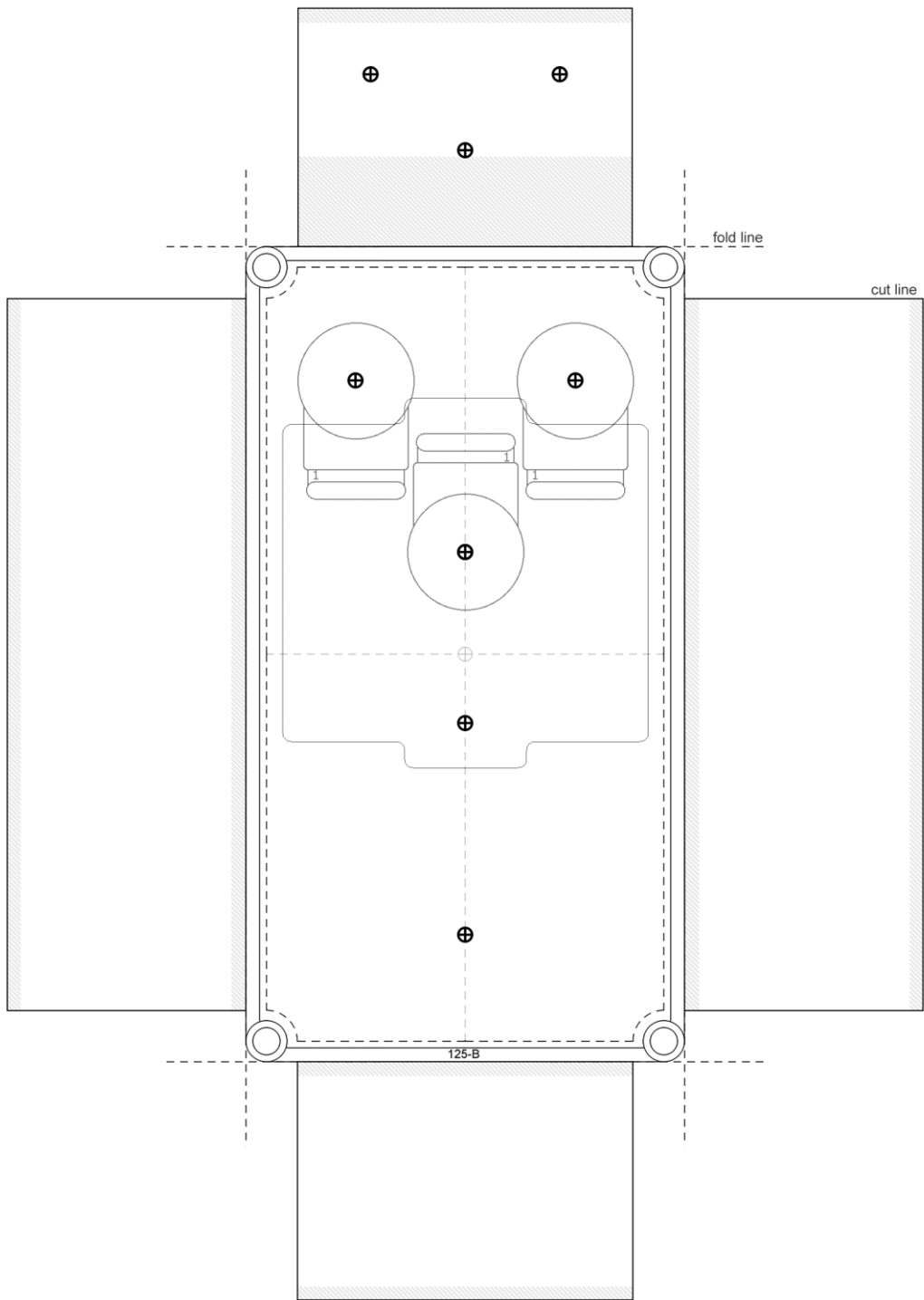


When using 1590B enclosures, it is best to mount the ribbon cable on top of the main board/3PDT wiring board instead of underneath. This is because the enclosure's compact size restricts space for the side jack Input and Output plugs.

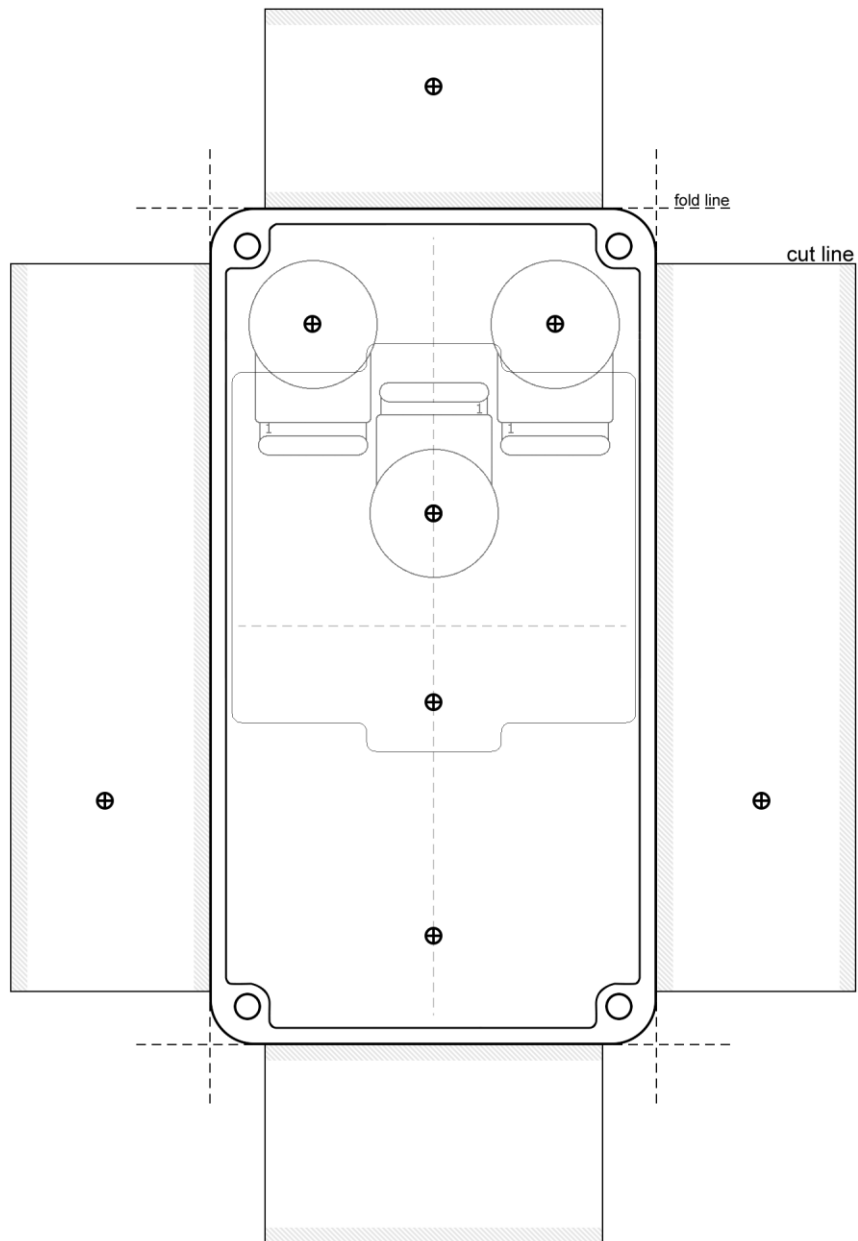


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The full-size drill templates for 125B and 1590B enclosures can be found on the following two pages. Additionally, you can find a link to Tayda's pre-drilled enclosures on the shop page at GuitarPCB.com.



125B Drill Template



1590B Drill Template