GuitarPCB Presents

NostalgiTone Cock-It-Wah Single

The iconic parked wah tones that defined rock history.

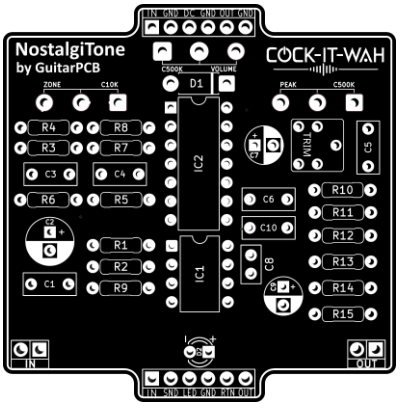
Cock-It-Wah delivers one of the most iconic guitar tones in rock history: the unmistakable voice of a wah pedal left in the perfect position. Rather than sweeping through a traditional wah range, Cock-It-Wah captures the focused, vocal character players discovered by leaving a wah parked at their favorite sweet spot.

From Mick Ronson's legendary guitar tones with David Bowie, to Michael Schenker's signature UFO-era sound, the distinctive parked-wah tones heard in Jimmy Page's solos, the unmistakable filtered character of Soundgarden's "Rusty Cage," and the iconic filtered tone heard in Mark Knopfler's "Money For Nothing," this focused wah voice has helped define some of rock's most recognizable guitar tones.

Unlike a traditional wah pedal, Cock-It-Wah gives you that signature parked-wah character in a compact pedal format without the need for a large enclosure or treadle mechanism. The adjustable PEAK control and internal frequency range trim allow builders to tune the filter response from thick, vocal midrange tones to sharper, more cutting lead voices. Set your perfect position, lock in your signature sound, and make that legendary parked wah character a permanent part of your rig.

🔌 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.

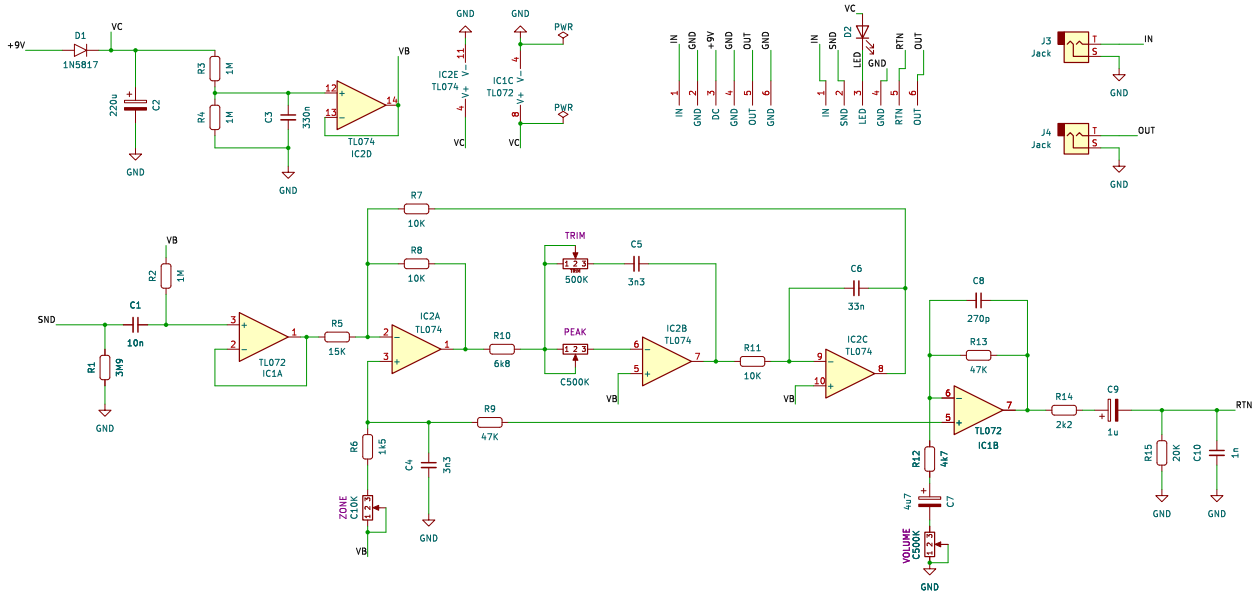
🛠️ Available Components: We recognize the hurdles of component availability. Rest assured, we've carefully selected components for the **NostalgiTone** series currently available from today's popular vendors.



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
R1	3M9
R2	1M
R3	1M
R4	1M
R5	15K
R6	1k5
R7	10K

PART	VALUE
R8	10K
R9	47K
R10	6k8
R11	10K
R12	4k7
R13	47K
R14	2k2

PART	VALUE
R15	20K
C1	10n
C2	220u
C3	330n
C4	3n3
C5	3n3

PART	VALUE
C6	33n
C7	4u7
C8	270p
C9	1u
C10	1n
D1	1N5817
D2	Status LED

PART	VALUE
IC1	TL072
IC2	TL074
TRIM	500K
ZONE	C10K
PEAK	C500K
VOLUME	C500K
* CLR - 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. A value of 1k8 to 4k7 may be used.

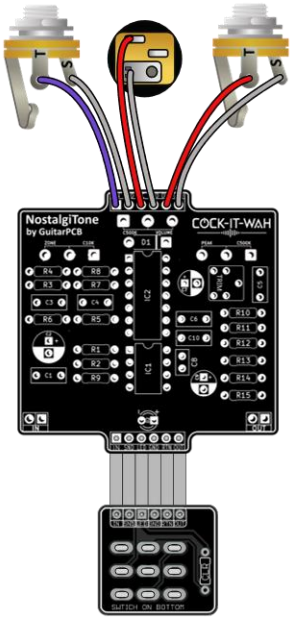
*** CLR x1** - Each wiring board requires an onboard (CLR) current limiting resistor. This is for the main board status LEDs. A 1k8 (Bright) value to 4k7 (Dim) may be used. A main Status LED is to show the active status.

TRIM and PEAK Adjustment

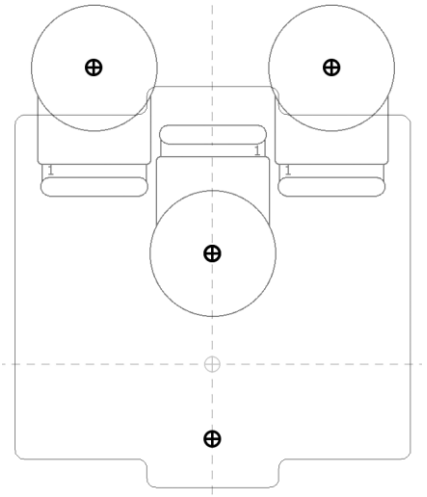
Cock-It-Wah uses two controls to shape the final wah character. The external PEAK control allows players to select the desired parked wah frequency, while the internal TRIM adjustment allows builders to fine-tune the available frequency range of the circuit.

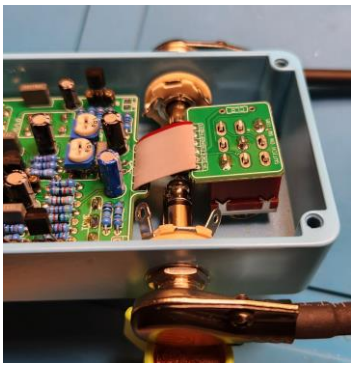
Think of TRIM as setting the overall range and PEAK as selecting the final position within that range. Adjusting TRIM allows the PEAK control to be centered around different tonal areas, from thicker, more vocal midrange tones to brighter, more cutting lead voices. While most people will appreciate this TRIM control as a set and forget type, you might also consider making this an externally mounted control if you like. Use a B500K potentiometer in that case.

Wiring Diagram

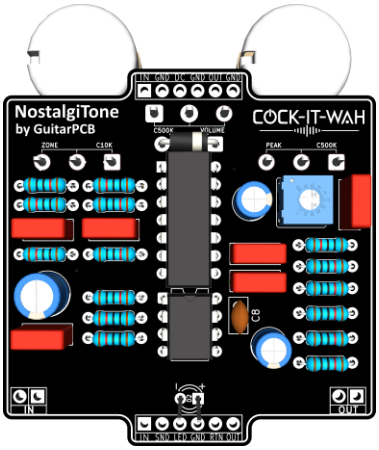


Generic Drill Template



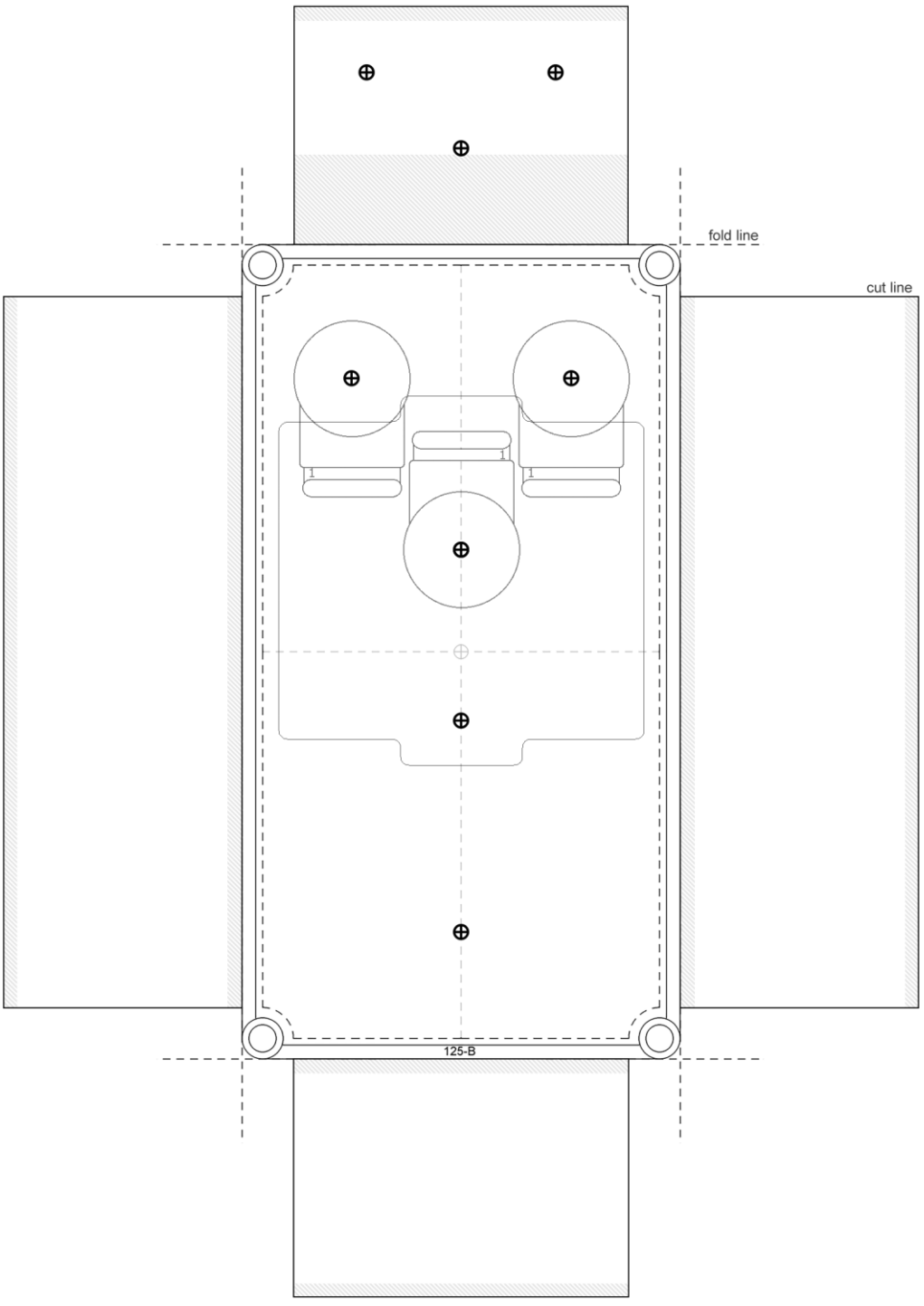


When using 1590B enclosures, it is best to mount the ribbon cable on top of the main board/3PDT wiring board instead of underneath. This is because the enclosure's compact size restricts space for the side jack Input and Output plugs.

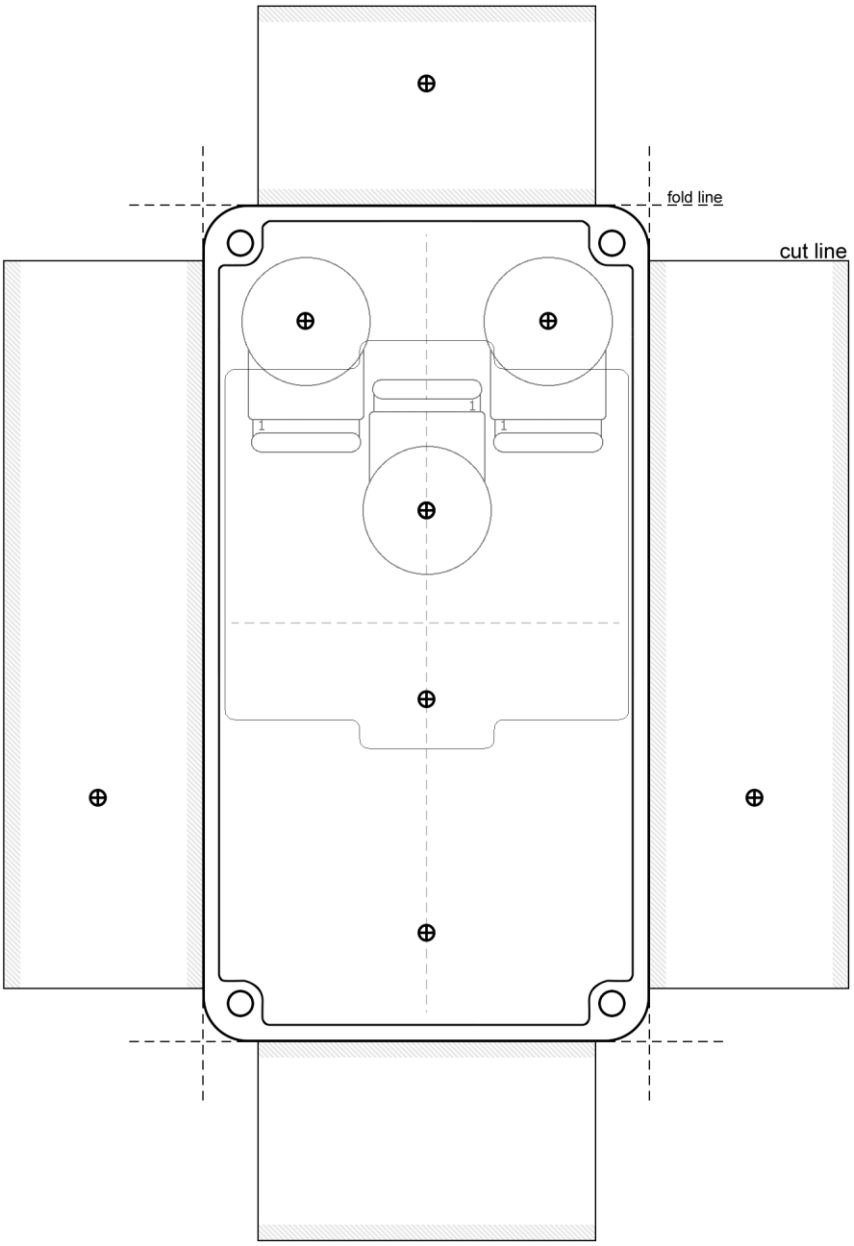


This Build Document, PCB, Artwork and Schematic image are property of ©GuitarPCB.com
All copyrights, trademarks and artworks remain the property of their owners.
Any company or product names used are for identification and educational purposes only.
GuitarPCB is in no way affilliated with any said companies and are not to be misrepresented.

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