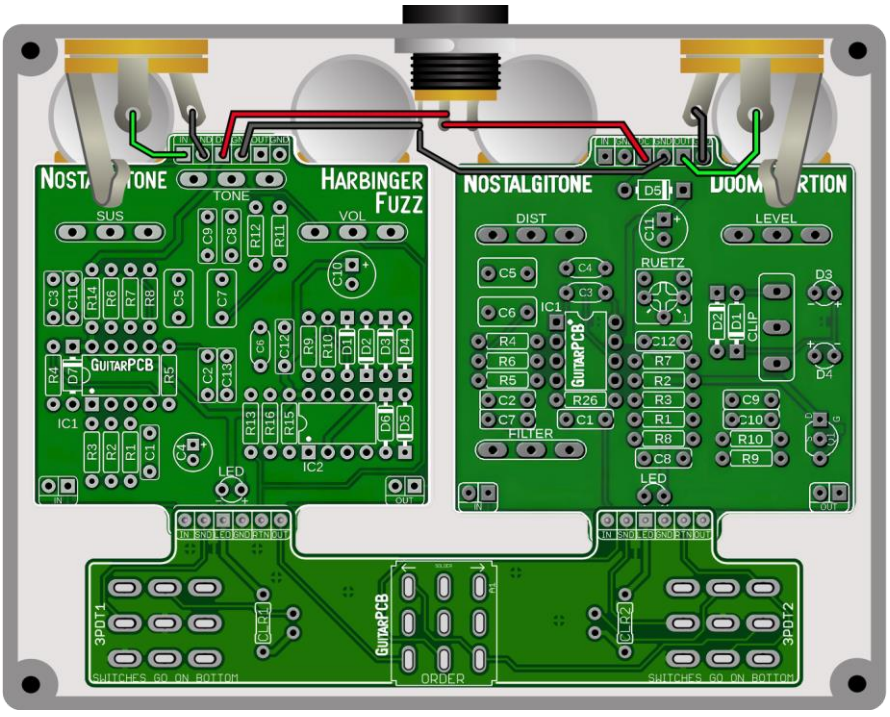
GuitarPCB Presents

Call of Cthulhu - Dual Combo

Introducing the NostalgiTone – Call of Cthulhu Dual Combo, a crushing Doom and Stoner–focused design built for players who want seismic low-end, saturated sustain, and apocalyptic riff power.

This dual combo pairs two proven single circuits from the NostalgiTone lineup: the Doomstortion (inspired by the Rat) and the Harbinger Fuzz (inspired by the Big Muff Opamp), creating a massive tonal arsenal capable of everything from gritty doom dirt to thick, endlessly sustaining fuzz walls.

A standout feature is the integrated order-switching, allowing you to place the circuits in either direction for dramatically different textures from tight distortion feeding a wooly fuzz to huge fuzz tones pushing aggressive clipping in an instant.

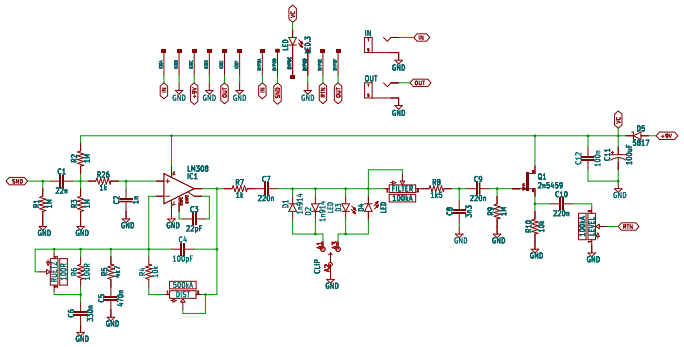


Order switching is built-in, with pin header connections making wiring a breeze.

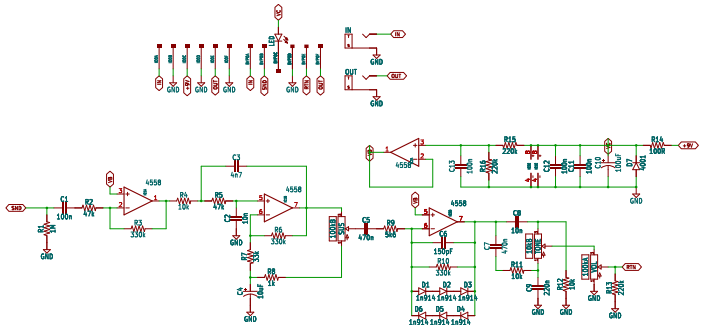
Ideal for a 1590BB2 enclosure, featuring the same dimensions as a 1590BB but with 125B clearance for jacks.

Included with each Dual Combo purchase. – (2) Mainboards, (2) pin headers, (1) Dual wiring board.

Schematic Doomstortion:



Schematic Harbinger Fuzz:



Bill of Materials Doomstortion:

Part	Value
R1	1M
R2	1M
R3	1M
R4	10k
R5	4k7
R6	100R
R7	1k
R8	1k5

Part	Value
R9	1M
R10	10k
R26	1k
C1	22n
C2	1n
C3	22pF
C4	100pF

Part	Value
C5	470n
C6	330n
C7	220n
C8	3n3
C9	220n
C10	220n
C11	100uF
C12	100n

Part	Value
D1	1N914
D2	1N914
D3	LED
D4	LED
D5	1N5817
RUETZ	Trim 100R
Q1	2N5458 / 57

Part	Value
LEVEL	A100K
DIST	A500K
FILTER	A100K
CLIP	On/Off/On
IC1	OP07
LED	Status
*CLR x1	1k8 - 4k7

Bill of Materials Harbinger Fuzz:

Part	Value
R1	1M
R2	47k
R3	330k
R4	10k
R5	47k
R6	330k
R7	33k
R8	1k
R9	5k6
R10	330k

Part	Value
R11	10k
R12	10k
R13	220k
R14	100R
R15	220k
R16	220k
C1	100n
C2	10n
C3	4n7

Part	Value
C4	10uF
C5	470n
C6	150pF
C7	470n
C8	10n
C9	220n
C10	100uF
C11	100n
C12	100n
C13	100n

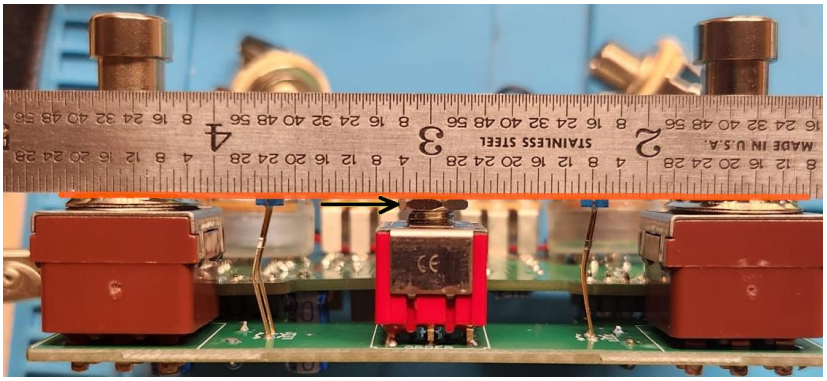
Part	Value
SUS	B100K
TONE	B10k
VOL	A100K
D1 - D6	1N914
D7	1N4001
IC1 - IC2	RC4558
LED	Status
*CLR	1k8 - 4k7

*** You'll need a 3PDT toggle switch On/On (solder lug version) with a short shaft for order switching on the dual wiring board PCB.**

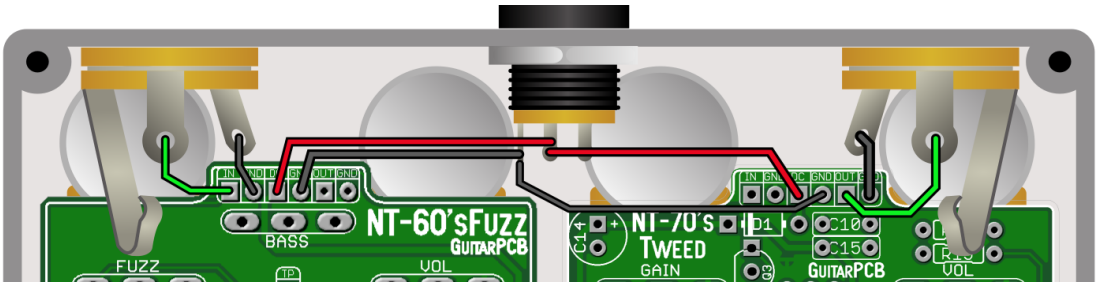
Build Notes:

1. **Solder the short side of both pin headers to the top of each main board, pointing upward. Next, solder all three switches, and (CLRs), to the Dual PCB. Crimp hang the LEDs (optional) if mounting to the dual wiring board.**
2. **Since the Dual PCB offers an additional LED Status location, you can choose your preferred setup. Whichever option you pick, solder a small jumper on the unused LED pads. (CLRs) are essential regardless of the installation choice.**
3. **Remove both nuts on each of the 3PDT foot switches for the best height match. Adjust the height of the Order Switch height adjustment nut so it is level with the foot switches (see photo next page). Do not over-tighten.**
4. **Install the Dual PCB by sliding it over both pin headers. Once the foot switches and toggle switch are secured correctly within the enclosure, proceed to solder the long side of the pin header to the dual wiring board.**
5. **There are two (CLR) Current Limiting Resistors crucial to protect and adjust the brightness of their corresponding status LED. You may use a value of 1k8 (Bright) to 4k7 (Dim).**

Easy Pre-installation Height Adjustment



Easy Wiring Diagram



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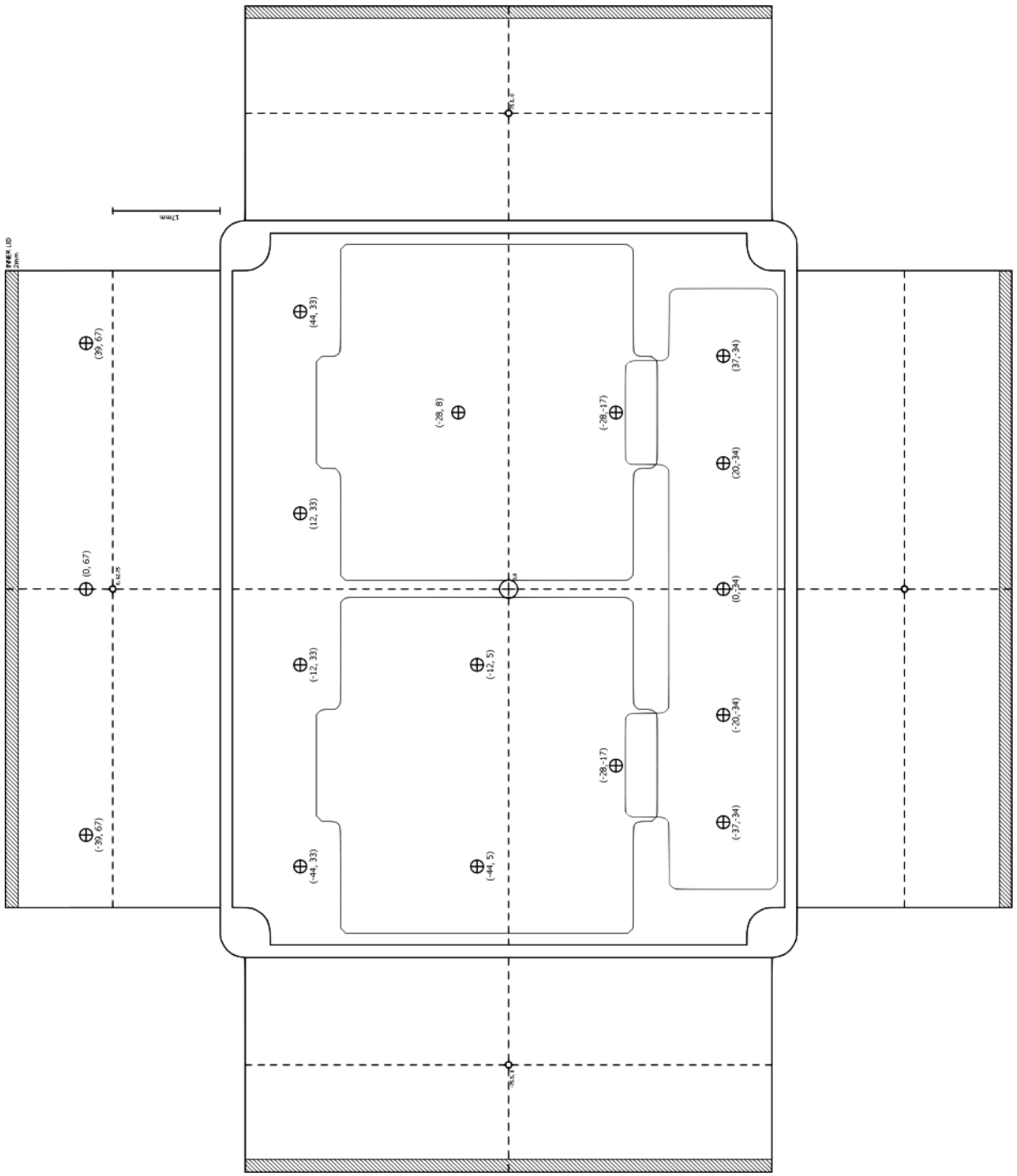

1590BB2 Drill Template

Drill only the holes required for your chosen project. LED holes can be located on either the wiring board or the main boards, giving you flexibility in how you lay out your build.

A link to a Tayda-drilled enclosure is available on the GuitarPCB Shop page. If you use the Tayda-drilled enclosure, both status LEDs must be installed on the dual wiring board.