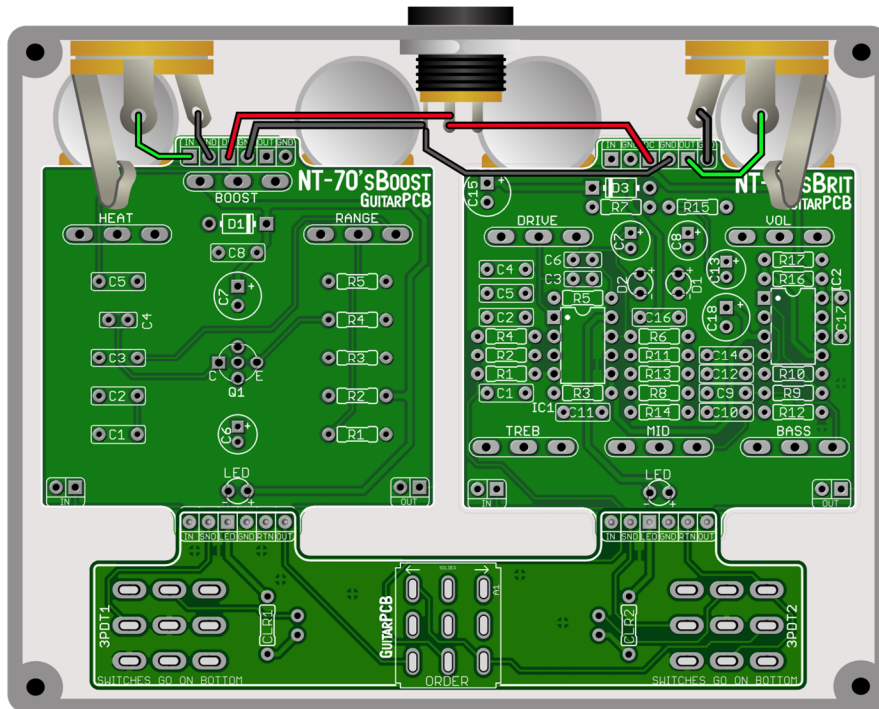

GuitarPCB Presents

Metal Godz - Dual Combo

Prepare for an extraordinary fusion of two legendary designs. The Metal Godz Dual Combo faithfully represents the raw energy found in the 70s Metal, Doom, and NWOBHM genres. With its comprehensive Marshall-style tone stack, achieving the iconic British sound is effortless. Designed to accommodate a full spectrum of Bass tones, even drop tuning is faithfully represented. Embrace the power, and unleash the fury with the Metal Godz Dual Combo.

Combining both circuits unleashes an unparalleled array of tones, unmatched by any other combination. Included is the secret used by Metal pioneers, evident the moment you hear it. Equipped with the Rangemaster-style Boost, you have complete control over your tone, whether you want to go full Doom mode or cut through the mix. With built-in Order switching, you have complete control over your tone like having an entirely different pedal at the flip of a switch. Point the toggle at the effect you want first.

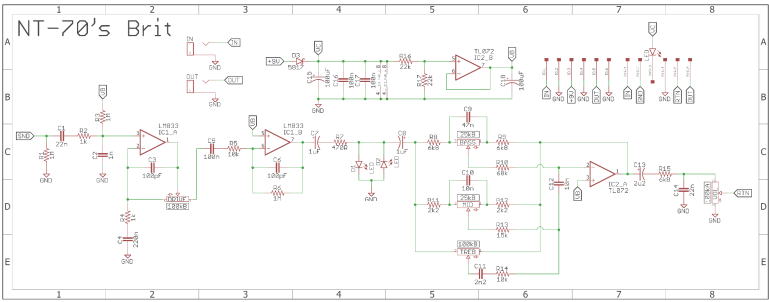


Order switching is built-in, with pin header connections making wiring a breeze.

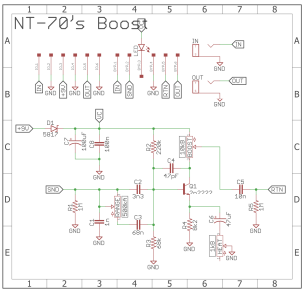
Ideal for a 1590BB2 enclosure, featuring the same dimensions as a 1590BB but with 125B clearance for jacks.

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

Schematic British:



Schematic Boost:



Bill of Materials British:

Part	Value	Part	Value	Part	Value	Part	Value
R1	1M	R13	15k	C7	1uF	IC1	LM833
R2	1k	R14	10k	C8	1uF	IC2	TL072
R3	1M	R15	6k8	C9	47n	D1 - D2	LED
R4	1k	R16	22k	C10	10n	D3	1N5817
R5	10k	R17	22k	C11	2n2	LED	Status
R6	1M			C12	10n		
R7	470R	C1	22n	C13	2u2		
R8	6k8	C2	1n	C14	22n	VOL	A100K
R9	6k8	C3	100pF	C15	100uF	DRIVE	B100K
R10	68k	C4	220n	C16	100n	BASS	B25K
R11	2k2	C5	100n	C17	100n	MID	B25K
R12	2k2	C6	100pF	C18	100uF	TREB	B100K

Bill of Materials Boost:

Part	Value	Part	Value	Part	Value
R1	1M	C2	3n3	LED	Status
R2	220k	C3	68n		
R3	68k	C4	47pF	Q1	2n2222
R4	8k2	C5	10n		
R5	1M	C6	47uF	RANGE	A500K
D1	1N5817	C7	100uF	BOOST	B10K
C1	1n	C8	100n	HEAT	B1K

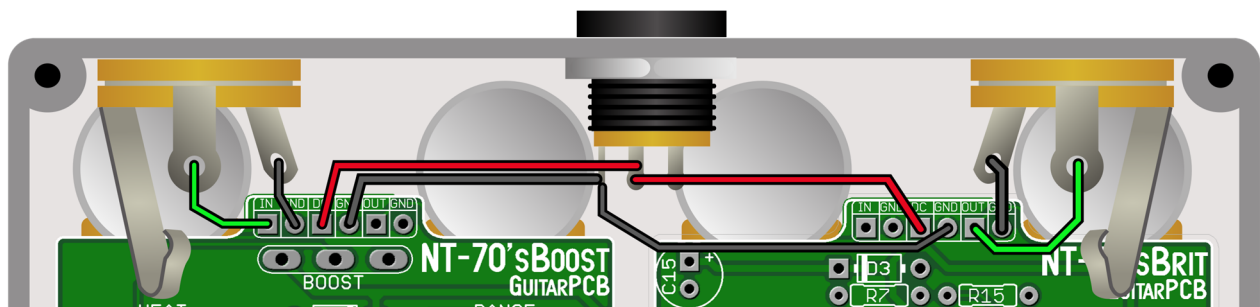
* You'll need a 3PDT toggle switch On/On (solder lug version) with a short shaft for order switching on the dual wiring board PCB.

Build Notes:

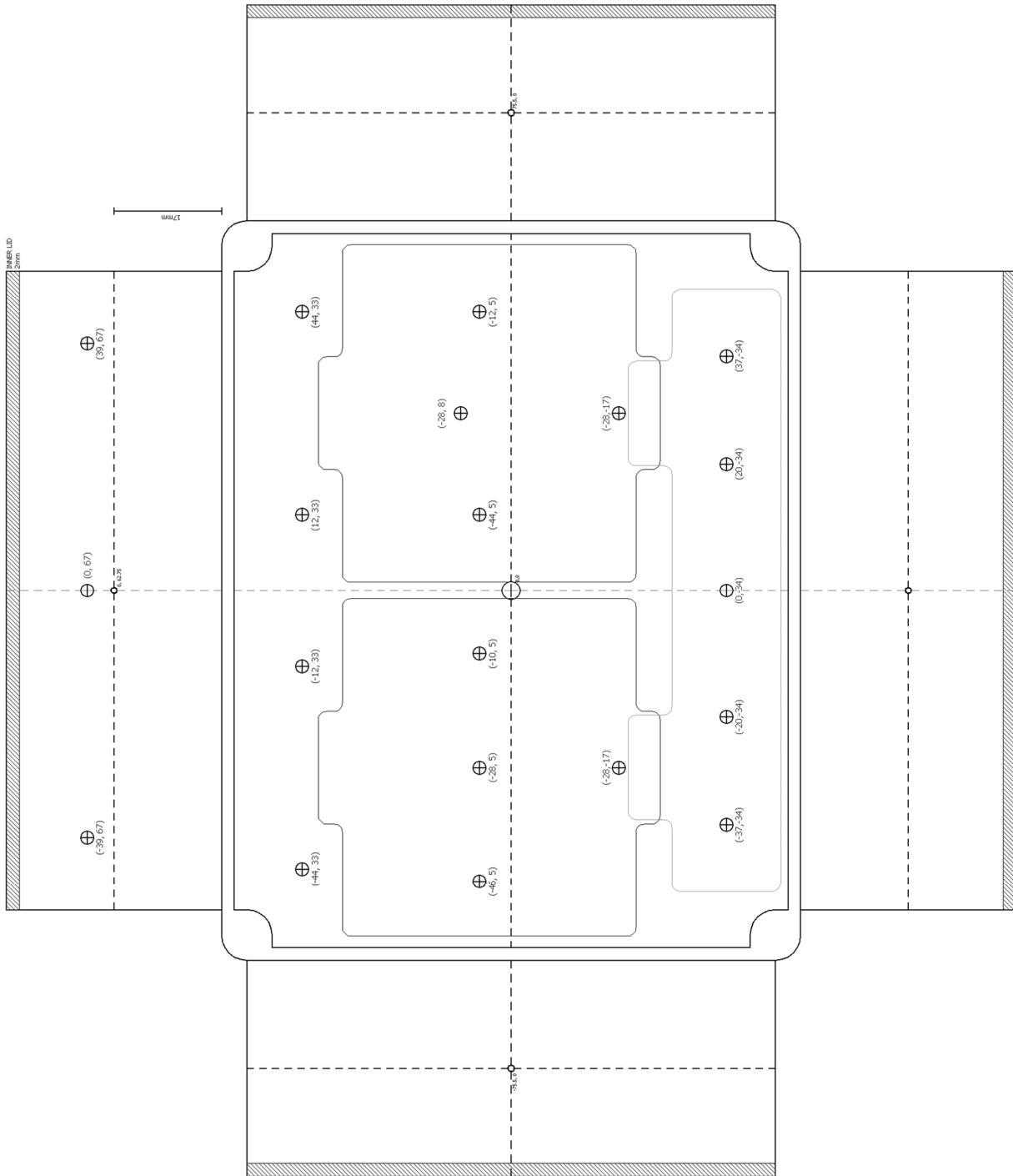
1. Solder the short side of both pin headers to the top of each main board, pointing upward. Next, solder all three switches, and (CLRs), to the dual wiring board. Dry hang the LEDs (optional) if mounting to the dual wiring board.
2. Since the dual wiring board offers an additional LED location for each circuit you have flexibility to choose your preferred setup. Whichever option you pick, solder a small jumper on the unused LED pads. (CLRs) are essential in either location.
3. Remove both nuts on each of the 3PDT foot switches for the best height match. Install the wiring board by sliding it over both sets of pin headers. Once the foot switches and toggle switch are tightened within the enclosure, proceed to solder the long side of the pin header to the dual wiring board. Solder both LEDs in place if you mounted them to the dual wiring board.
4. The (CLR) Current Limiting Resistor is crucial to protect and adjust the brightness of their corresponding status LED. You may use a value of 1k8 (Bright) to 4k7 (Dim).
5. Remove pot protectors for the side-by-side 3x tone section. Use non-conductive backing instead to save space between pots.



Easy Wiring Diagram



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1590BB2 Drill Template

Note: The left section features drill holes for a five-knob and the right side is a three-knob circuit.

Study the template and drill only the holes you need for your project.

You can find a link to a Tayda Drilled enclosure on the GuitarPCB shop page. You must install both status LEDs on the dual wiring board only if you order the Tayda drilled enclosure.