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# GuitarPCB Presents

## Zoso Tone - Dual Combo

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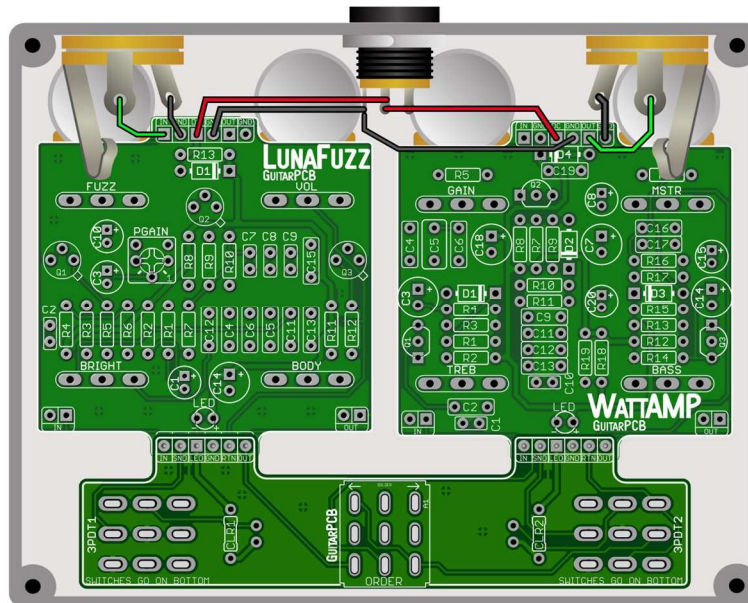
Introducing the Zoso Tone Combo, a new Dual Combo that combines two iconic circuits to capture the legendary sound of Jimmy Page. This Combo features the "WattAMP" and "Luna Fuzz" circuits, designed to work in perfect harmony to recreate the searing tones that defined the Early Years of Led Zeppelin music.

The AMP tone captures the robust, high-headroom clarity of Hiwatt amps and delivers rich overdrive tones without excessive volume. With its intuitive controls, you can effortlessly dial in your perfect preamp tone, achieving the amplifier sounds that define an era.

The FUZZ delivers a thick, substantial Fuzz tone without any temperamental behavior. With its vast range spanning from tight, aggressive overdrive to ultra-saturated fuzz, the Luna Fuzz opens endless possibilities for tone exploration.

### Key Features:

- Authentic HiWatt-style preamp and tone stack with adjustable EQ for precise tonal control.
- Fuzz is used for soaring solos and powerful riffs, equally effective as a standalone Fuzz tone or in tandem with the Preamp.
- Built-in order switching for endless tonal possibilities, allowing you to easily reverse the signal path.

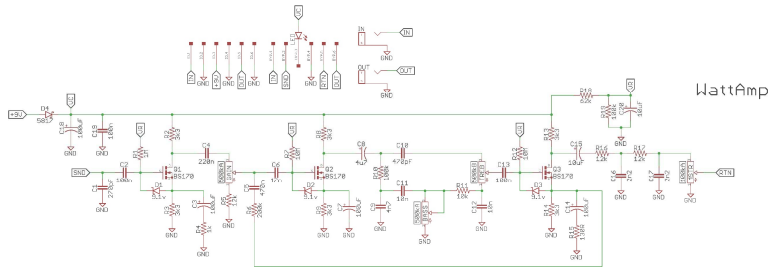


**Order switching is built-in, with pin header connections making wiring a breeze.**

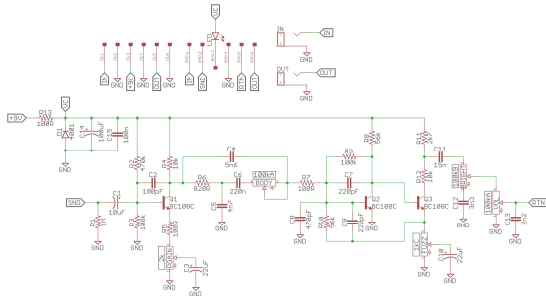
Ideal for a 1590BB2 enclosure, featuring the same dimensions as a 1590BB but with 125B clearance for jacks.

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

## Schematic WattAMP:



## Schematic Fuzz:



## Bill of Materials WattAMP:

Part	Value	Part	Value	Part	Value	Part	Value	Part	Value
R1	1M	R11	10k	C1	270pF	C11	10n	Q1 - Q3	BS170
R2	3k3	R12	10M	C2	100n	C12	10n	D1 - D3	1N4739
R3	3k3	R13	3k3	C3	100uF	C13	100n	D4	1N5817
R4	1k	R14	3k3	C4	220n	C14	100uF	LED	Status
R5	12k	R15	130R	C5	470n	C15	10uF	* CLR	1k8 - 4k7
R6	200k	R16	12k	C6	47n	C16	2n2		
R7	10M	R17	12k	C7	100uF	C17	2n2	MSTR	A100K
R8	3k3	R18	62k	C8	4u7	C18	100uF	GAIN	A500K
R9	3k3	R19	100k	C9	4n7	C19	100n	BASS	A500K
R10	100k			C10	470pF	C20	10uF	TREB	B500K

## Bill of Materials Luna Fuzz:

Part	Value	Part	Value	Part	Value	Part	Value
R1	1M	R11	2k7	C7	220pF	VOL	A100K
R2	470k	R12	10k	C8	470pF	FUZZ	C1K
R3	100k	R13	100R	C9	220pF	BODY	A100K
R4	10k			C10	22uF	BRIGHT	B100K
R5	100R	C1	10uF	C11	15n	PGAIN	Trim 2k
R6	820R	C2	100pF	C12	3n3		
R7	100R	C3	22uF	C13	2n2	Q1 - Q3	BC108C
R8	56k	C4	5n6	C14	100uF	LED	Status
R9	100k	C5	4n7	C15	100n		
R10	56k	C6	220n	D1	1N5817	* CLR x1	1k8 - 4k7

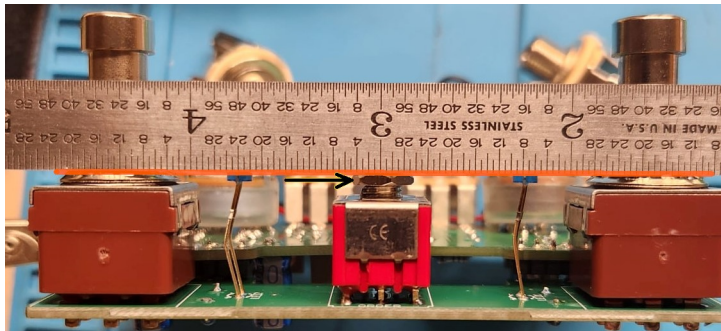
\* You'll need a 3PDT toggle switch On/On (solder lug version) with a short bat (stubby) for order switching on the dual wiring board PCB.

## Build Notes:

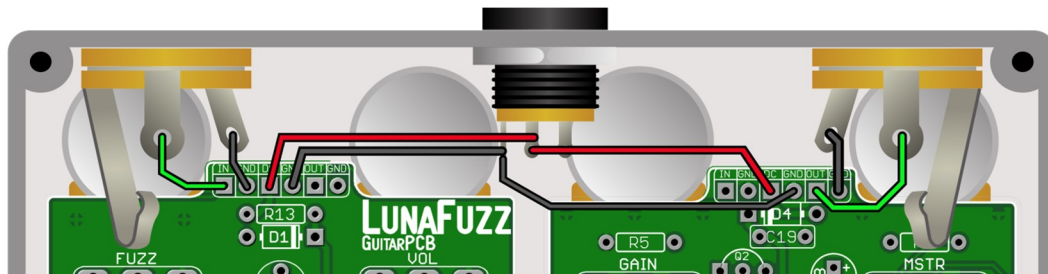
1. Solder the short side of both pin headers to the top of each main board, pointing upward. Next, solder all three switches, and (CLR)s, to the dual wiring board. Dry hang the LEDs (optional) if mounting to the dual wiring board.
2. Since the dual wiring board offers an additional LED location for each circuit, you can choose your preferred setup. Whichever option you pick, solder a small jumper on the unused LED pads. (CLR)s are essential regardless of the location choice.
3. If you order the Tayda drilled enclosure with my link (see shop page) you must install the Status LEDs on the wiring board.
4. Remove both nuts on each of the 3PDT foot switches for the best height match. Adjust the height of the inner Order Switch adjustment nut so it is level with the foot switches' height relative to the enclosure. Do not over-tighten the outer Switch nut.
5. Install the wiring board by sliding it over both 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.
6. \* 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).



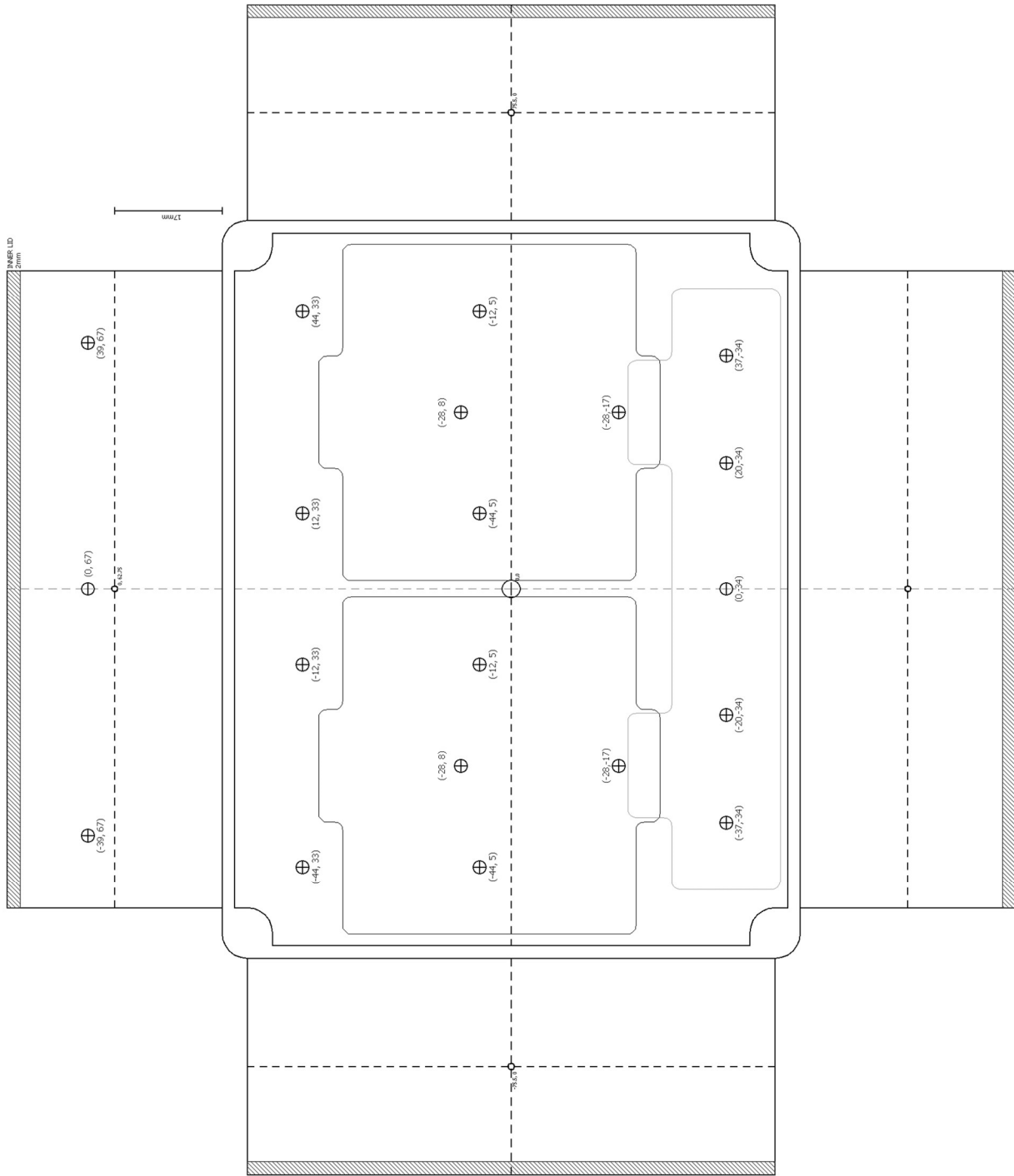
**Order Switch Height Adjustment**



**Easy Wiring Diagram**



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### 1590BB2 Drill Template

**Note:** Study the template and drill only the holes you need for your project. Pay attention to the LED section so you drill the LED holes in the location of your choice. Above the footswitch or beside it. You must install both status LEDs on the dual wiring board (beside the footswitches) if you order the Tayda drilled enclosure.