GuitarPCB Presents

SKYN TONE – “74” Limited Edition

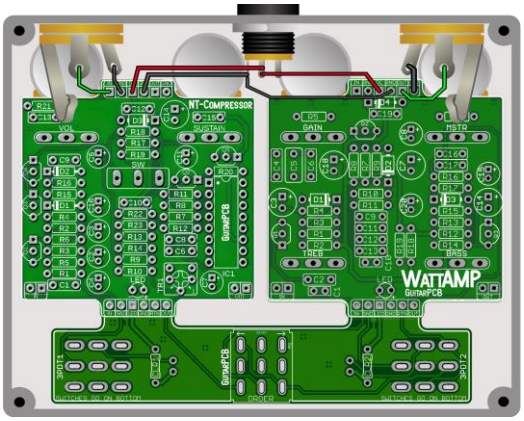
Introducing the SKYN TONE “74” Limited Edition that combines two iconic circuits to capture the legendary sound of Lynyrd Skynyrd. This “74” Edition features the "Compressor" and "WattAmp" circuits, instead of the Dumbletone to recreate their tones.

The Compressor: is a versatile tool, offering both subtle tone smoothing and heavy compression. The Volume knob adjusts the overall output. The Sustain knob controls the compression level perfect for country, blues, and Southern Fried rock. The Attack switch (SW1) fine-tunes the compression’s response to match your playing style. (see page 3 for Compressor Attack explanation).

WattAmp: The signature Lynyrd Skynyrd tones of 1974 were built on HIWATT amplifiers, known for their massive clean headroom, fast response, and authoritative punch. Players like Gary Rossington relied on these powerful, clean platforms to maintain clarity and articulation at high volumes, allowing the guitar’s dynamics and front-end to define the overdrive rather than heavy amp saturation.

Key Feature:

- **Built-in order switching for endless tonal possibilities, to easily reverse the signal path. Use a “Stubby” or short bat switch. Try starting with the Compressor set to be first in the order for a traditional tone.**

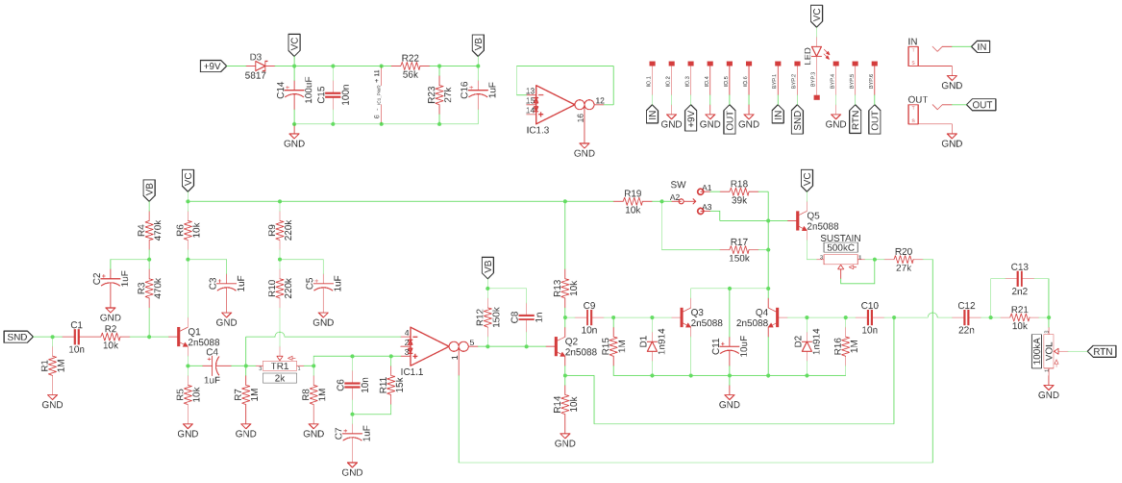


Order switching is built-in, with pin header connections making wiring a breeze.

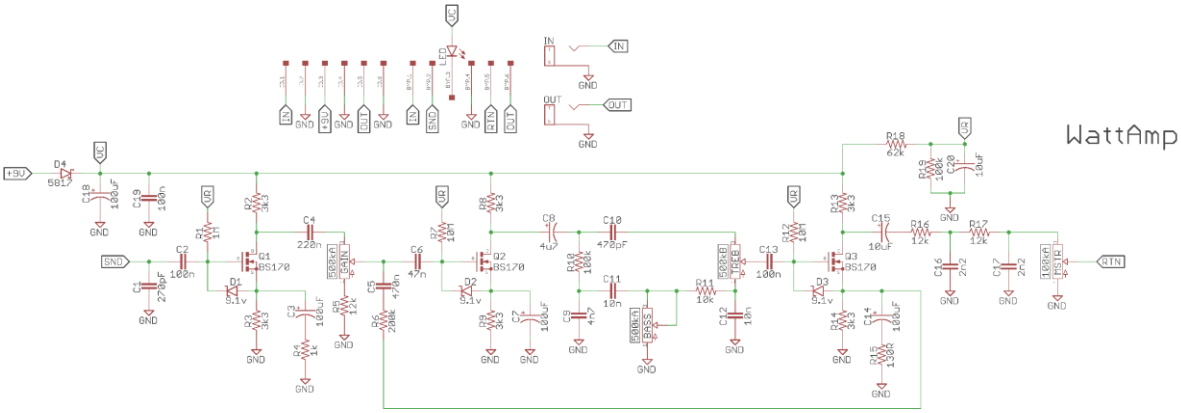
Ideal for a 1590BB2 enclosure, featuring the same dimensions as a 1590BB but with 125B clearance for jacks.

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

Schematic Compressor:



Schematic WattAmp:



Bill of Materials Compressor:

Part	Value	Part	Value	Part	Value	Part	Value
R1	1M	R15	1M	C5	1uF	Volume	A100K
R2	10k	R16	1M	C6	10n	Sustain	C500K
R3	470k	R17	150k	C7	1uF		
R4	470k	R18	39k	C8	1n	SW - SPDT	On-Off_On
R5	10k	R19	10k	C9	10n	TR1	2k
R6	10k	R20	27k	C10	10n		
R7	1M	R21	10k	C11	10uF	D1 - D2	1N914
R8	1M	R22	56k	C12	22n	D3	1N5817
R9	220k	R23	27k	C13	2n2		
R10	220k			C14	100uF	IC1	LM13700
R11	15k	C1	10n	C15	100n		
R12	150k	C2	1uF	C16	1uF	Q1 - Q5	2N5088
R13	10k	C3	1uF			LED	Status
R14	10k	C4	1uF			*CLR x 1	1k8 - 4k7

Bill of Materials WattAmp:

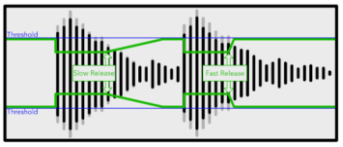
Part	Value	Part	Value	Part	Value	Part	Value	Part	Value
R1	1M	R11	10k	C1	270pF	C11	10n	Q1 - Q3	BS170
R2	3k3	R12	10M	C2	100n	C12	10n	D1 - D3	1N4739
R3	3k3	R13	3k3	C3	100uF	C13	100n	D4	1N5817
R4	1k	R14	3k3	C4	220n	C14	100uF	LED	Status
R5	12k	R15	130R	C5	470n	C15	10uF	* CLR	1k8 - 4k7
R6	200k	R16	12k	C6	47n	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

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

Compressor Attack explained:

The speed at which Q5 turns on depends on how fast C11 changes from a discharged to a charged state; this is controlled by the resistance value of R17-R19, smaller resistance - faster capacitor charging - quicker turn-on time for Q5.

- SW1 UP: 10k (150k shorted). This is the fastest release time.
- SW1 MIDDLE: 10k + 150k in series which is the longest release.
- SW1 DOWN: 10k + 39k (which is in parallel to the150k) is medium attack.

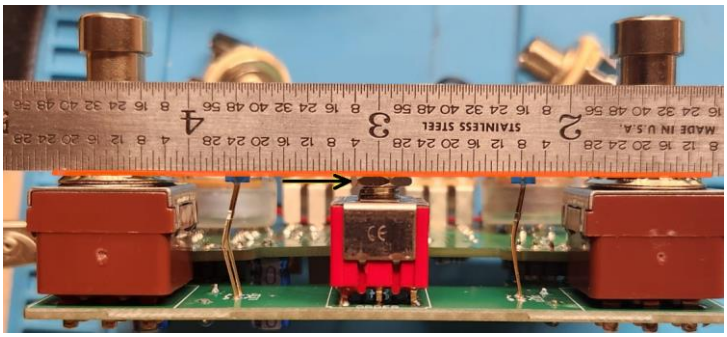


While it does not affect the overall tone a fast attack setting will reduce the volume of the initial pick strike, and depending on the amount of sustain, this can sound dramatic. For a natural, transparent effect, a slower attack time will let the initial pick or finger attack through.

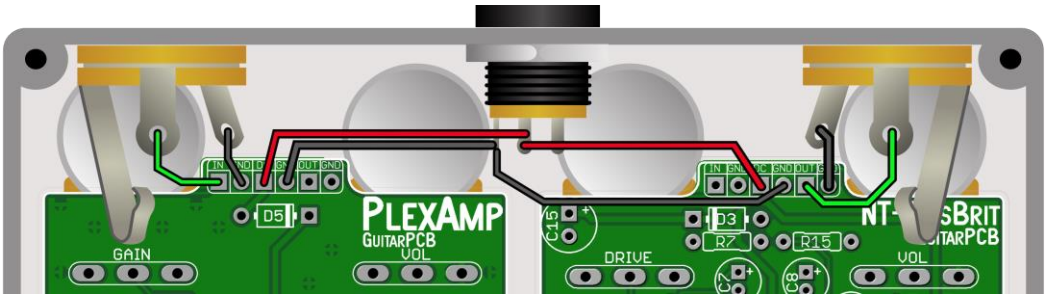
Build Notes:

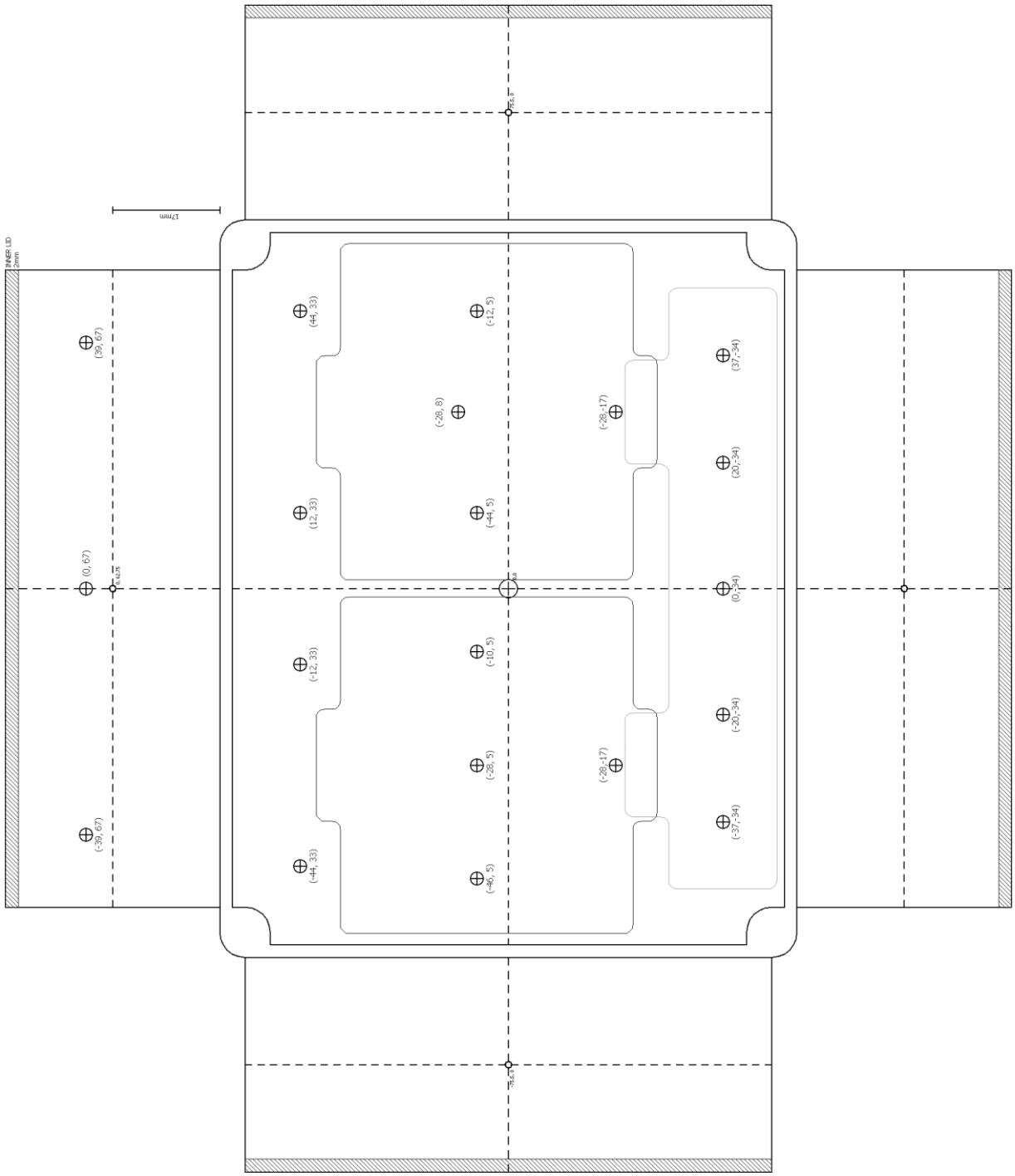
1. **Solder the short side of both pin headers to the top of each main board, pointing upward. Next, solder all three switches, and (CLRs), to the dual wiring board. Dry hang the LEDs (optional) if mounting to the dual wiring board.**
2. **Since the dual wiring board offers an additional LED location for each circuit, you can choose your preferred setup. Whichever option you pick, solder a small jumper on the unused LED pads. (CLRs) 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





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.