

Toob Creamer

Tube Screamer
TS808 / TS9

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BOM

R1	1K	C1	22n	IC	4558
R2	510K	C2	1u	Q1,2	2N3904
R3	10K	C3	47n	D1,2	1N4148
R5	10K (470K)	C4	47p	D3	1N4001
R6	4K7	C5	.22u tant	TONE	20KB/W
R7	51K	C7	47u (4.7u)	DRIVE	500KA
R8	1K	C8	1u	LEVEL	100KA
R9	10K	C9	.22u tant		
R10	10K	C10	100n		
R11	220R	C11	10u		
R12	510K	C12	100u		
R13	10K (100K)				
R14	10K				
R15	100R (470R)				
R16	10K				
R17	1K				
R18	1K				
R22	1M				

Parts listed are for the TS808 version.

For TS9 substitute parts in blue.

For Boutique version without buffers replace R5.

Boutique-erise that mofo!

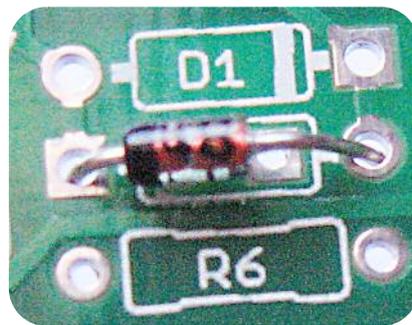
To eliminate the input and output buffers:

- > Leave out all parts shown in the red shaded areas on the schematic
- > Add jumper wires from A to B and C to D. You could also just take the OUT wire from pin two of the LEVEL pot and leave out the C to D jumper
- > Replace R5 with 470K
- > Connect pin 1 of LEVEL pot to GND instead of pad 1 on the board. Handy points to do this are marked with **X** on the layout on page 2.

Clipping

Notice D2 has two extra pads. This gives you the choice of symmetric or asymmetric clipping. For symmetric simply put D2 across the outer pads.

For asymmetric put two diodes in there, both with the stripe pointing to the left.

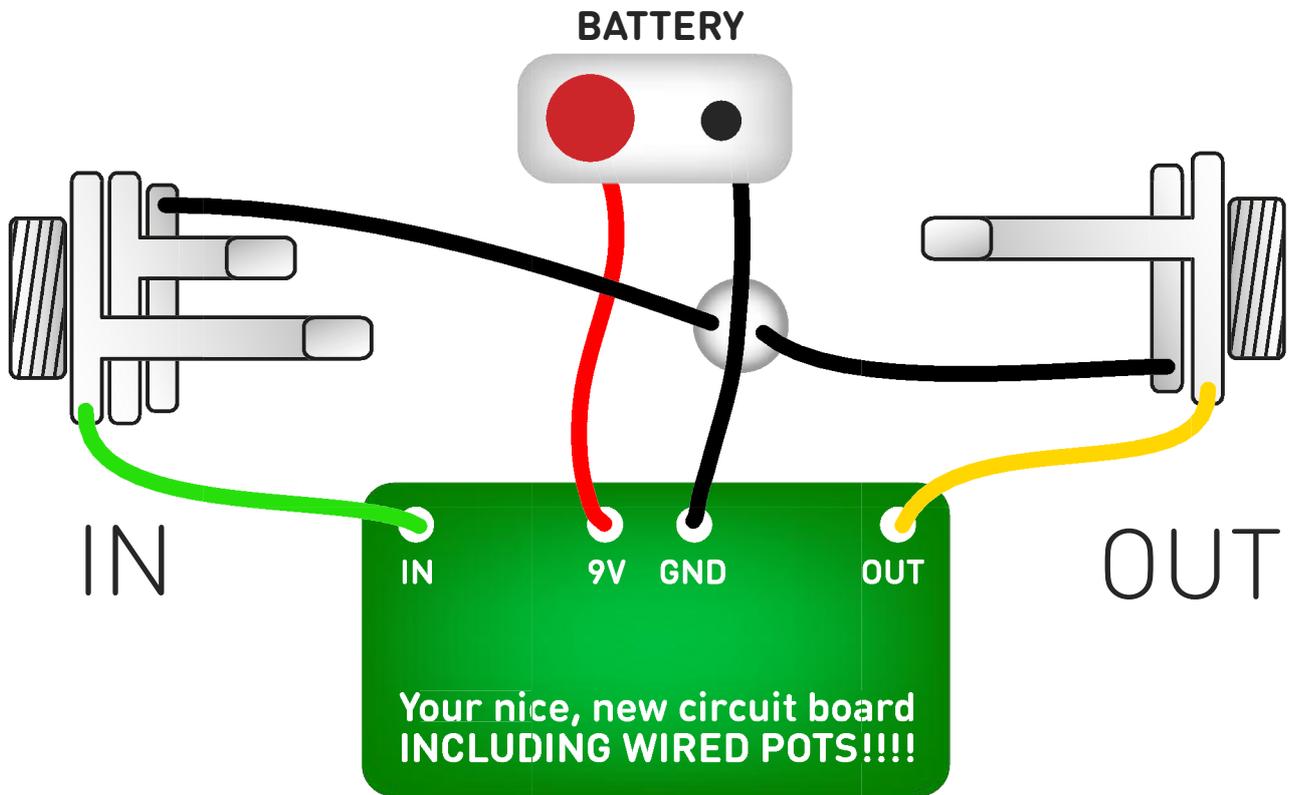


Symmetric



Asymmetric

Test the board!

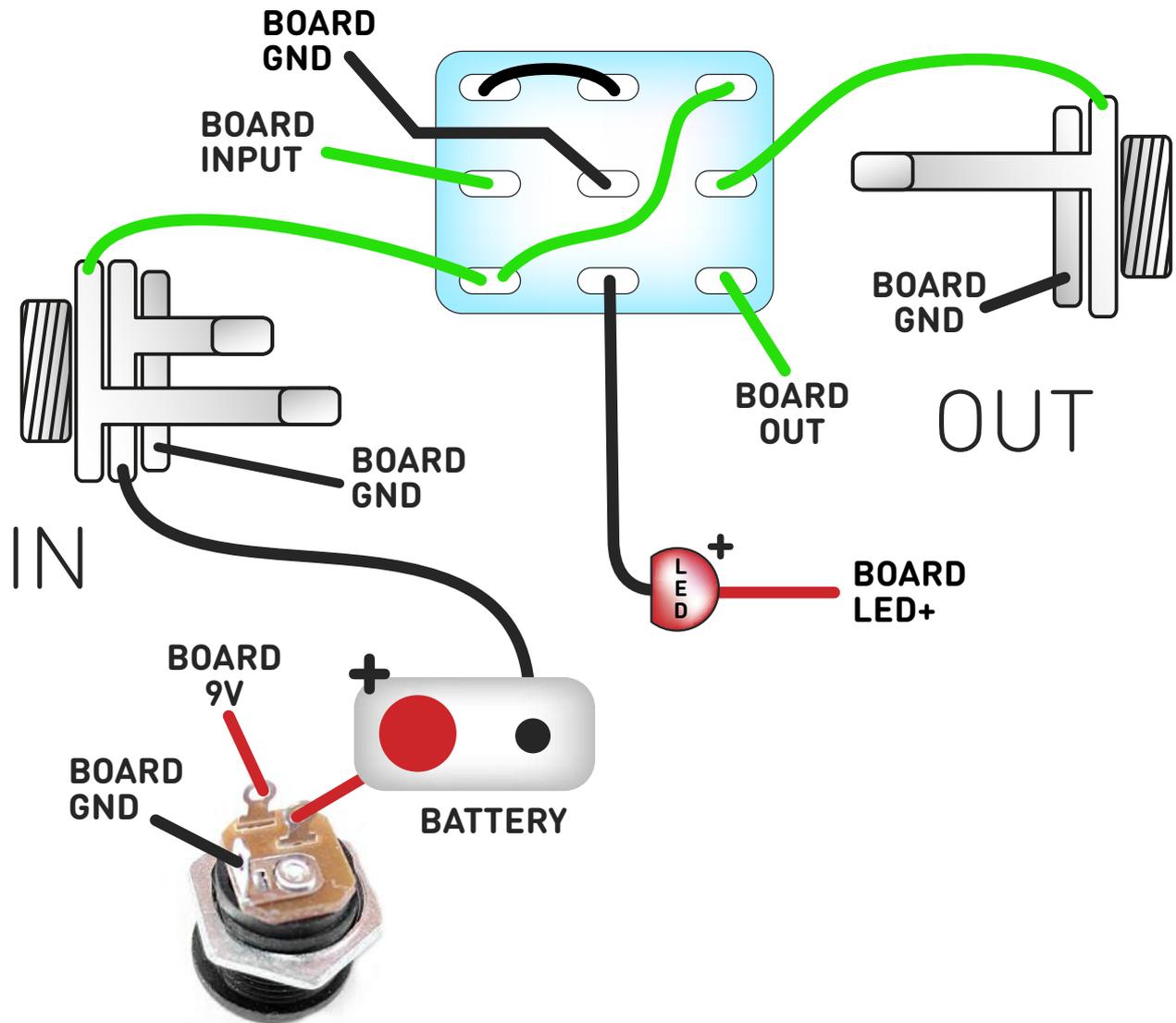


Once you've finished the circuit it makes sense to test it before starting on the switch and LED wiring. It'll cut down troubleshooting time in the long run. If the circuit works at this stage, but it doesn't once you wire up the switch - guess what? You've probably made a mistake with the switch.

Solder some nice, long lengths of wire to the board connections for 9V, GND, IN and OUT. Connect IN and OUT to the jacks as shown. Connect all the GNDs together (twist them up and add a small amount of solder to tack it). Connect the battery + lead to the 9V wire, same method. Plug in. Go!

If it works, crack on and do your switch wiring. If not... aw man. At least you know the problem is with the circuit. Find out why, get it working, THEN worry about the switch etc.

Wire it up



Wiring shown above will disconnect the battery when you remove the jack plug from the input, and also when a DC plug is inserted.

The Board GND connections don't all have to directly attach to the board. You can run a couple of wires from the DC connector, one to the board, another to the IN jack, then daisy chain that over to the OUT jack.

It doesn't matter how they all connect, as long as they do.

This circuit is standard, Negative GND. Your power supply should be Tip Negative / Sleeve Positive. That's the same as your standard pedals (Boss etc), and you can safely daisy-chain your supply to this pedal. Now... GO ROCK!

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