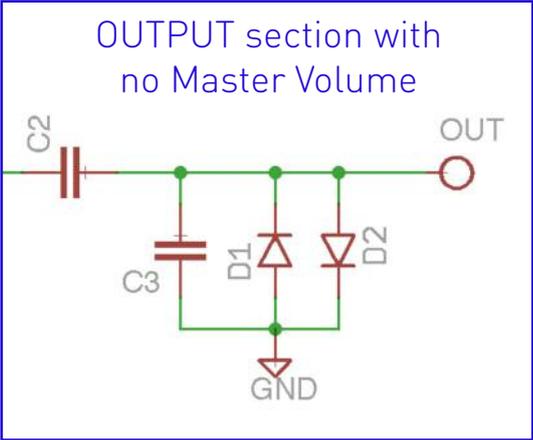
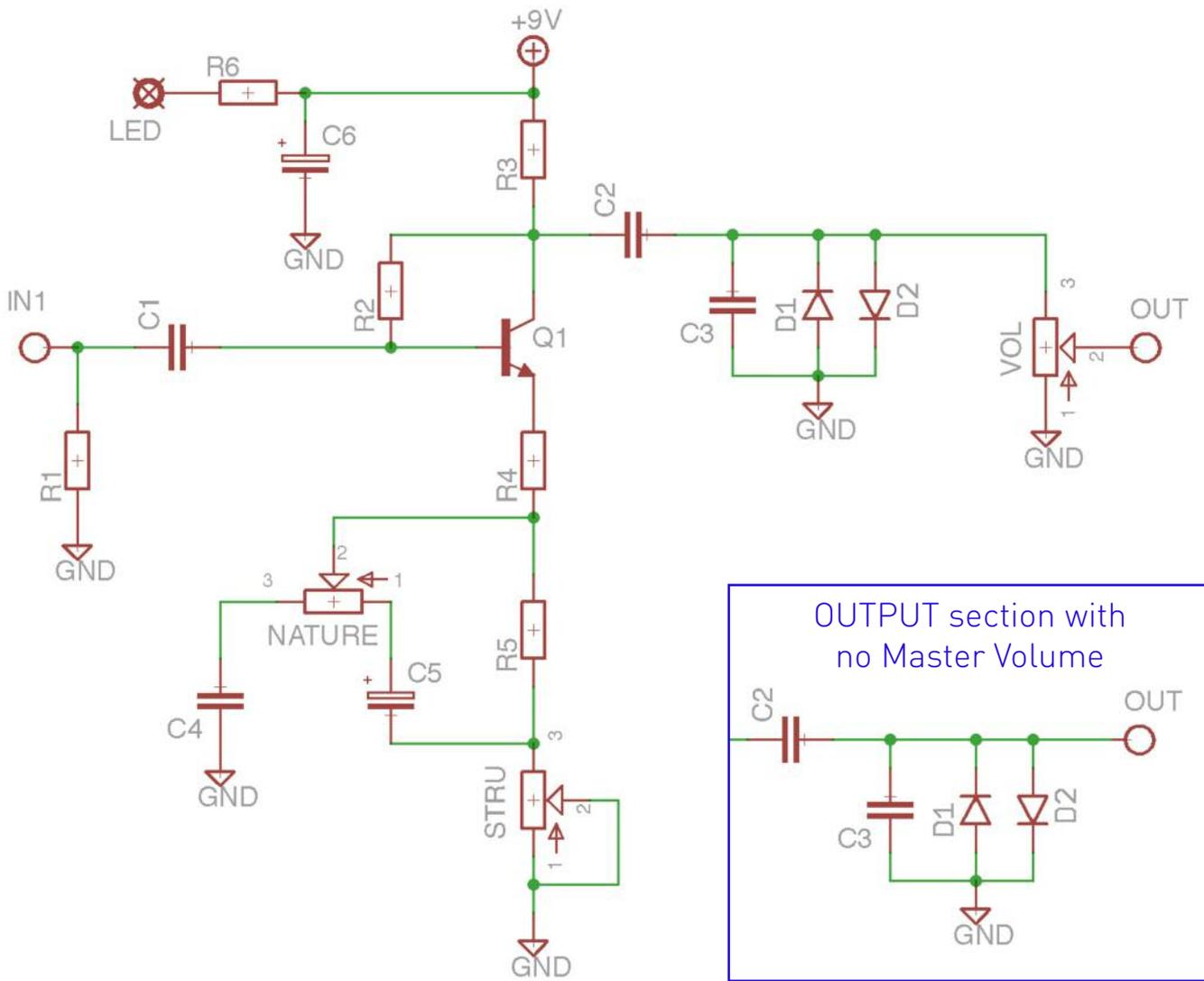


Clock of Tone

Modified (by Fred Briggs)
Boutique Boost/Overdrive

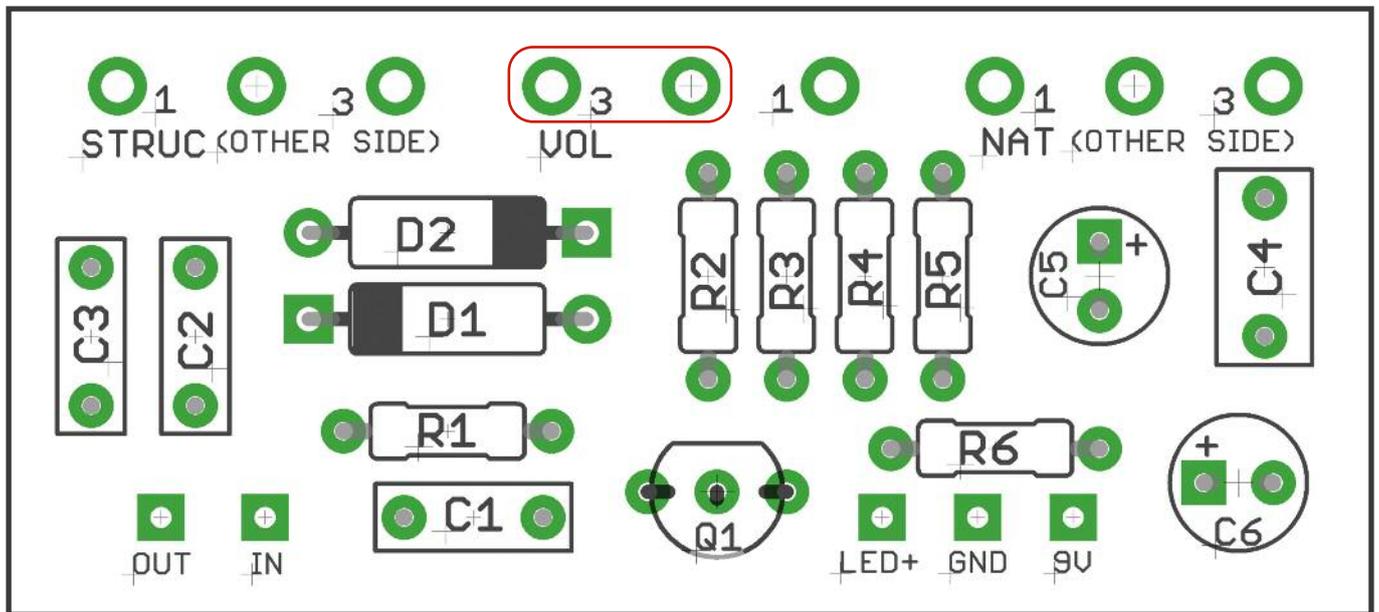
PedalParts.co.uk

Schematic



BOM

R1	1M	C1	56n
R2	2M2	C2	120n
R3	3K3	C3	47n
R4	47R	C4	470n
R5	330R	C5	47u electrolytic
R6	2K2 (CLR)	C6	47u electrolytic
D1,2*	1N270	STRUC	1KB
Q1	2N5088	NATURE	1KB
		VOL	470-500KA



The PCB is designed to have the pots mounted directly to it. You can use wire if you like - simply connect the board pads to the corresponding pins on the pots.

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

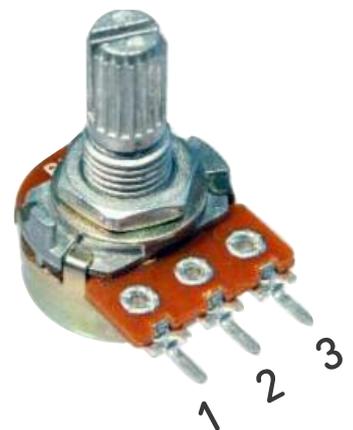
Snap the little metal tag off the pots to mount them flush in the box.

Be VERY careful when bending the legs of the 1N270. The glass case is very fragile and likely to break. Best to hold the leg with some needle-nosed pliers against the case, and bend the leg with your finger so the pliers are taking any strain away from the diode.

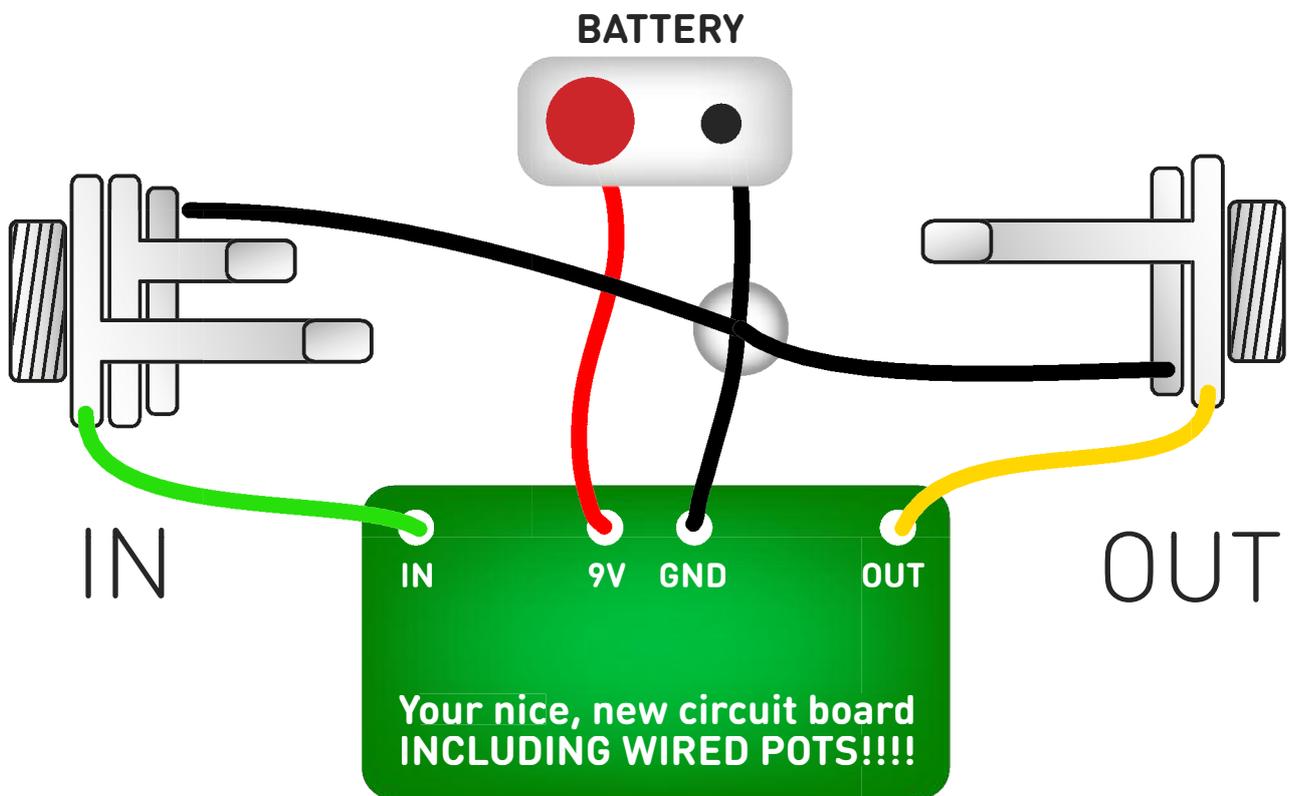
Diodes and transistors do NOT like heat. Be very careful when soldering them, and don't leave the iron on them for more than a couple of seconds. Using a heatsink (self-closing tweezers, crocodile clip) on the leg you're soldering will help avoid frying them. Same goes for the LED.

STRUC and NATURE pots mount on the rear of the PCB, VOL (if you're adding it) goes on the same side as the components.

If you aren't adding a VOL pot, connect pads 2 and 3 together where the pot would have gone.



Test the board!

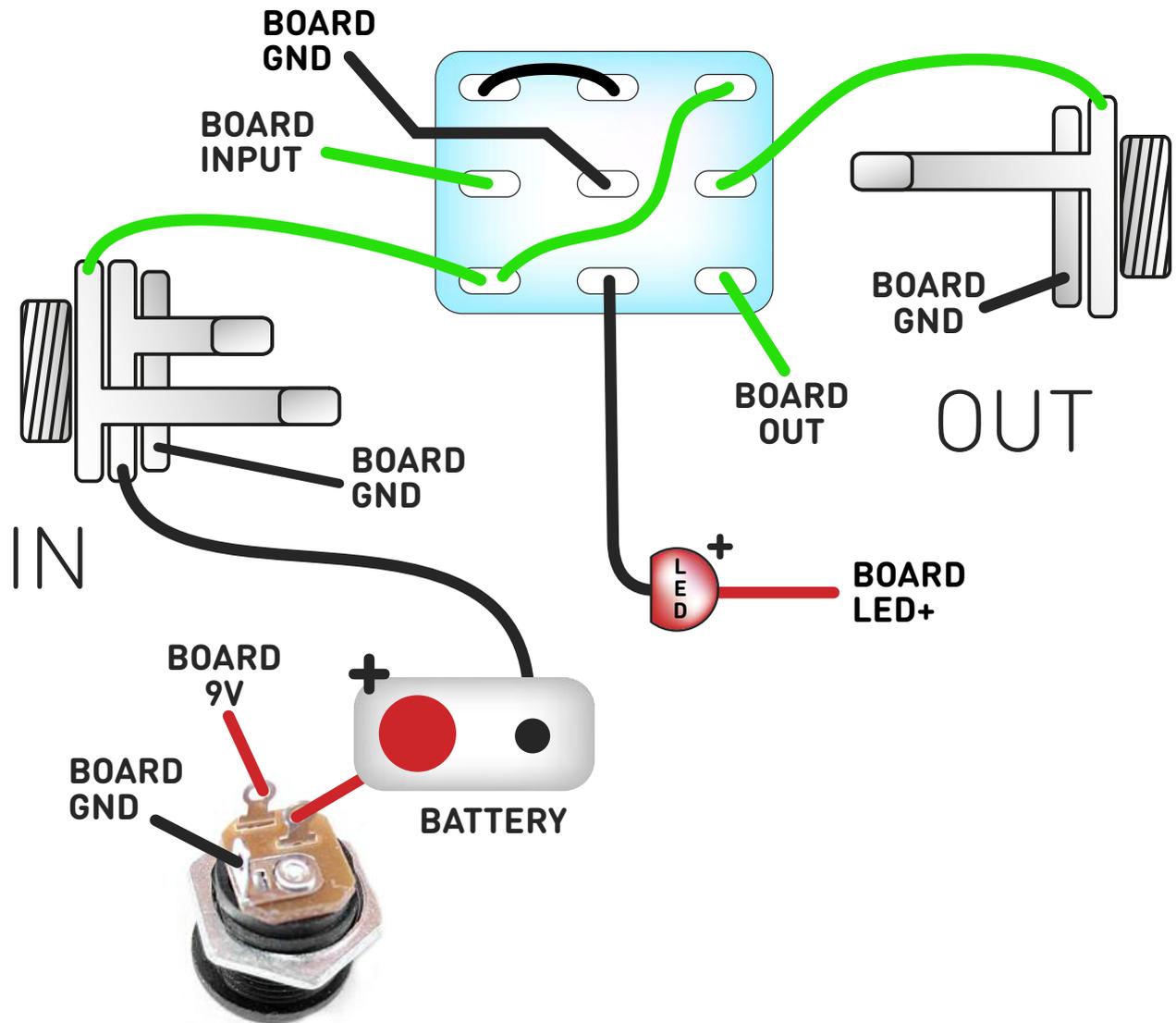


Once you've finished the circuit it makes sense to test it before starting on the switch and LED wiring. It'll cut down troubleshooting time in the long run. If the circuit works at this stage, but it doesn't once you wire up the switch - guess what? You've probably made a mistake with the switch.

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



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... crank it!

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