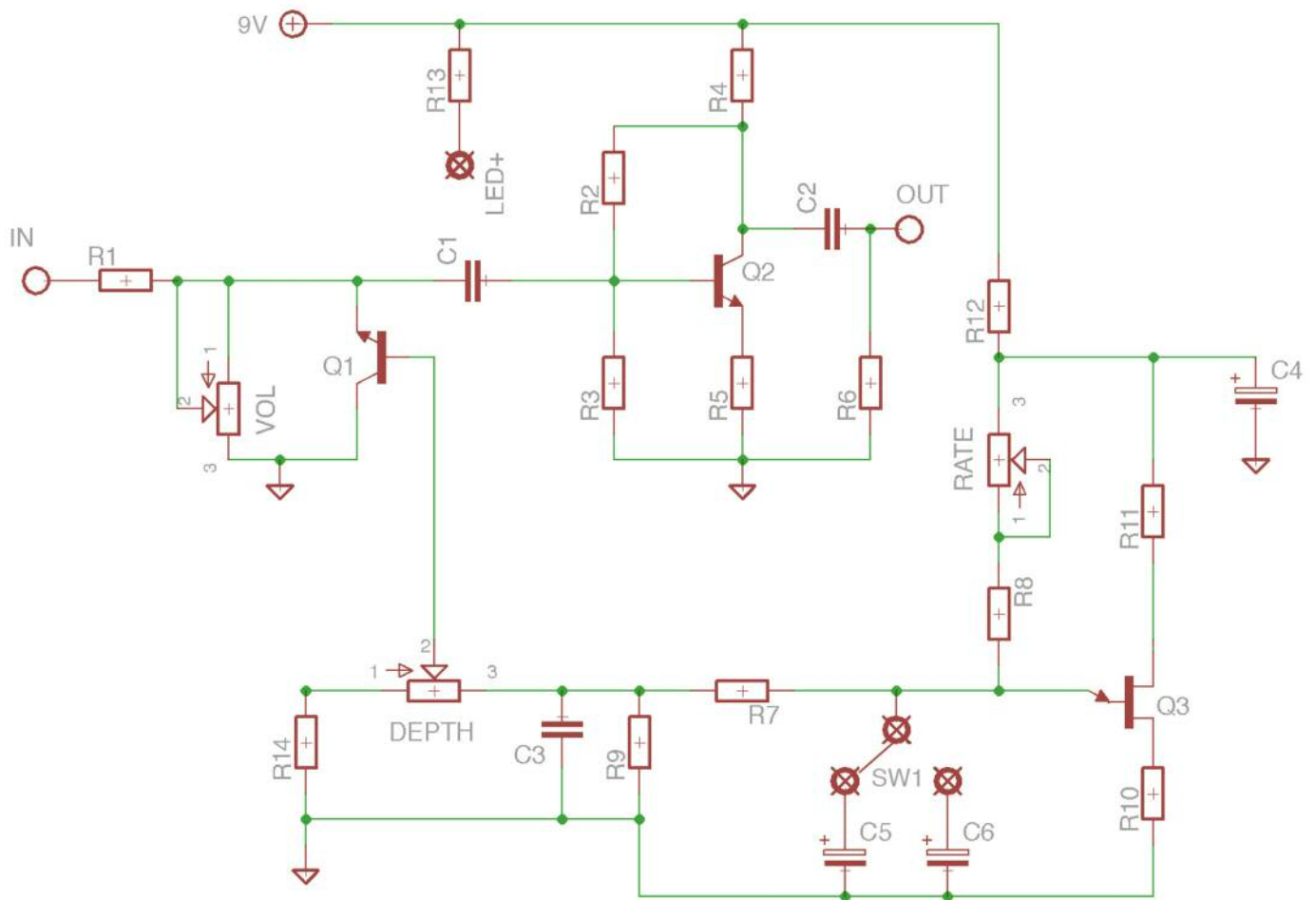


Repeater

Vox Repeat Percussion
with updates and mods

PedalParts.co.uk

Schematic



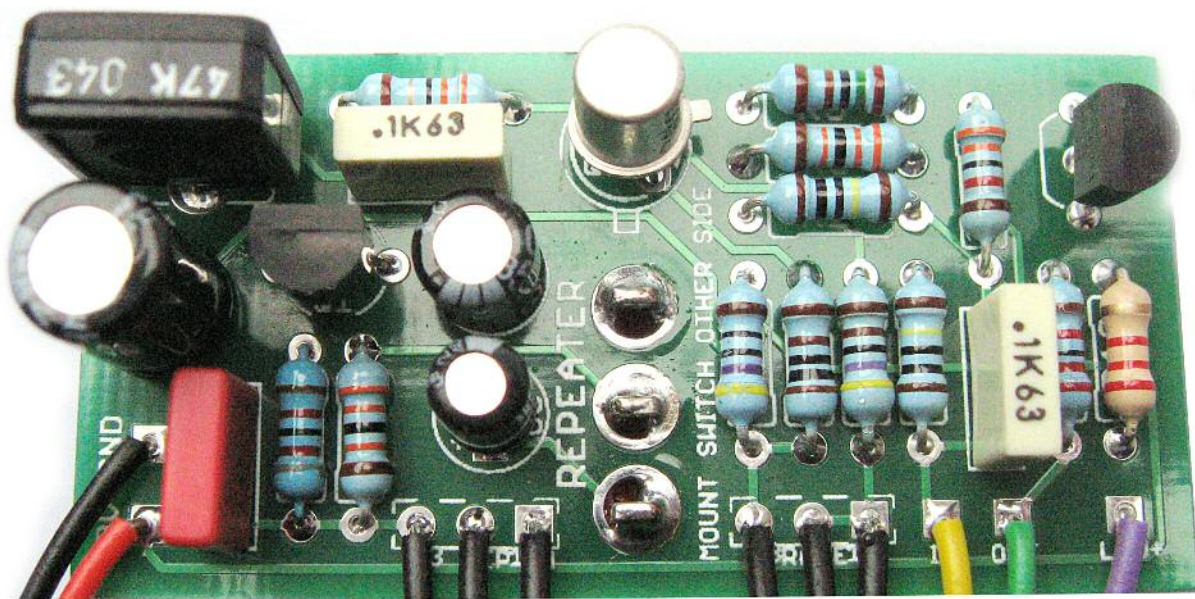
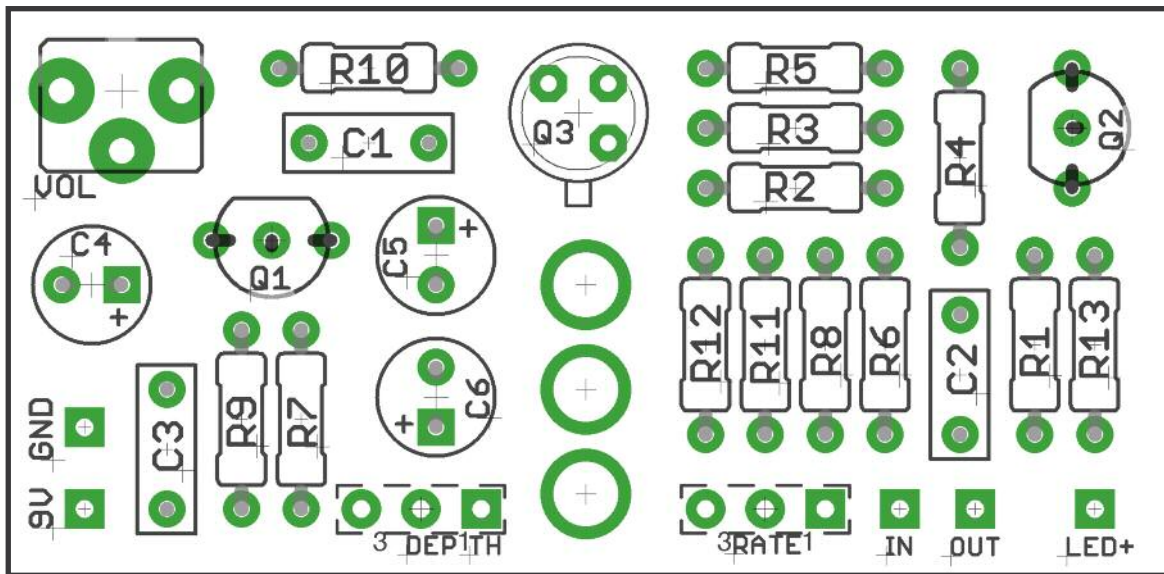
BOM

R1	22K	C1	100n (4n7**)	Q1,2	2N5088‡
R2	1M	C2	100n	Q3	2N2646
R3	330K	C3	68n	DEPTH	500KC (or B)
R4	33K	C4	220u	RATE	100KC (or B)
R5	1K5	C5	10u	VOL	47K Trimmer
R6	1M	C6	2u2***	Switch	SPDT
R7	330K				
R8	4K7				
R9	82K				
R10	33R				
R11	1K				
R12	470R				
R13	2K2 (CLR)				
R14	330K				

** Original was 4n7, but this gives a really thin sound. Both caps are included.

*** Added, along with switch, to give a bigger range.

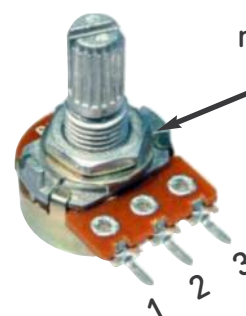
‡ Many high gain NPN wil work here, e.g. 2N3904, MPSA18, 2N5089



You can omit the depth pot altogether by connecting DEPTH pads 2 and 3 together with a jumper.

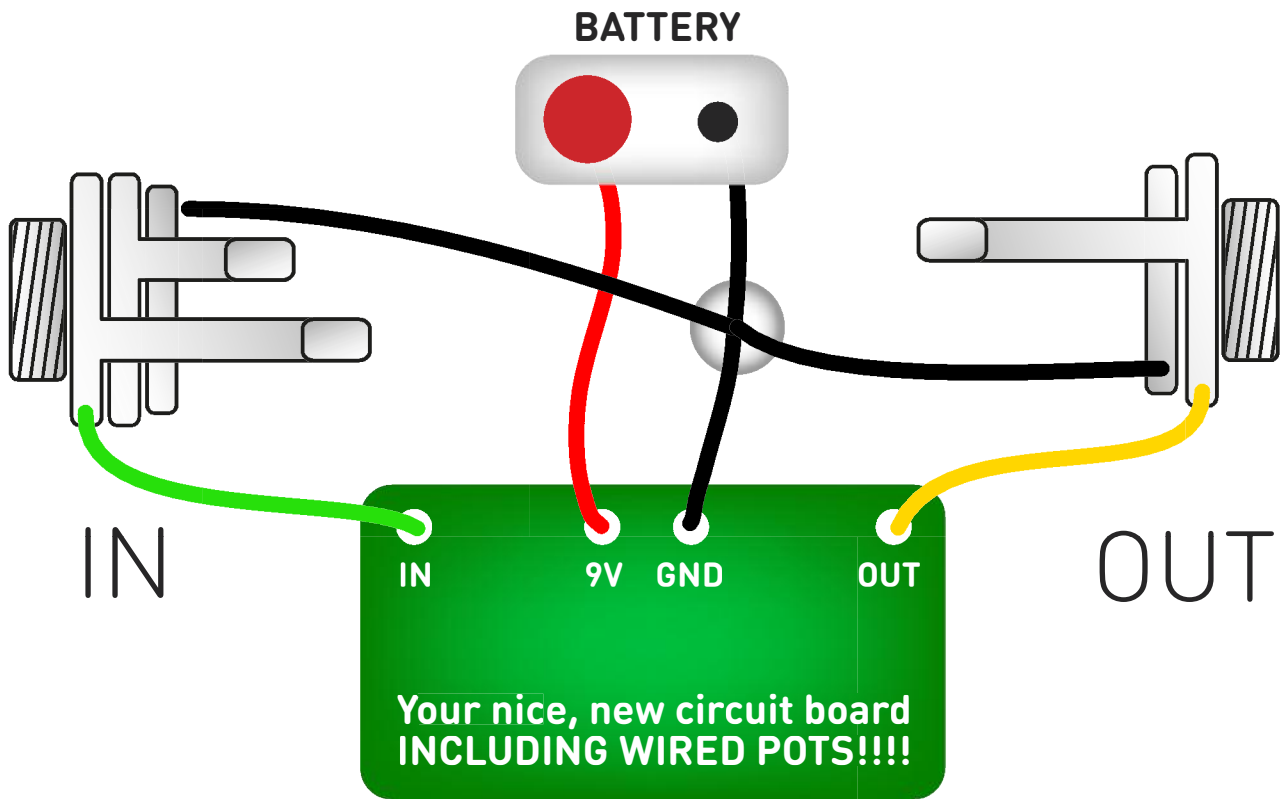
You should use some kind of heat sink (crocodile clip, self-closing tweezers, etc) on the legs of the transistors when soldering them. They don't like much heat.

Any supplied 2N2646 have been tested and confirmed as working. If you're sourcing your own I recommend socketing it as they are notoriously flakey.



Snap the little metal tag off the pots to mount them flush in the box. They ain't so tough!

Test the board!

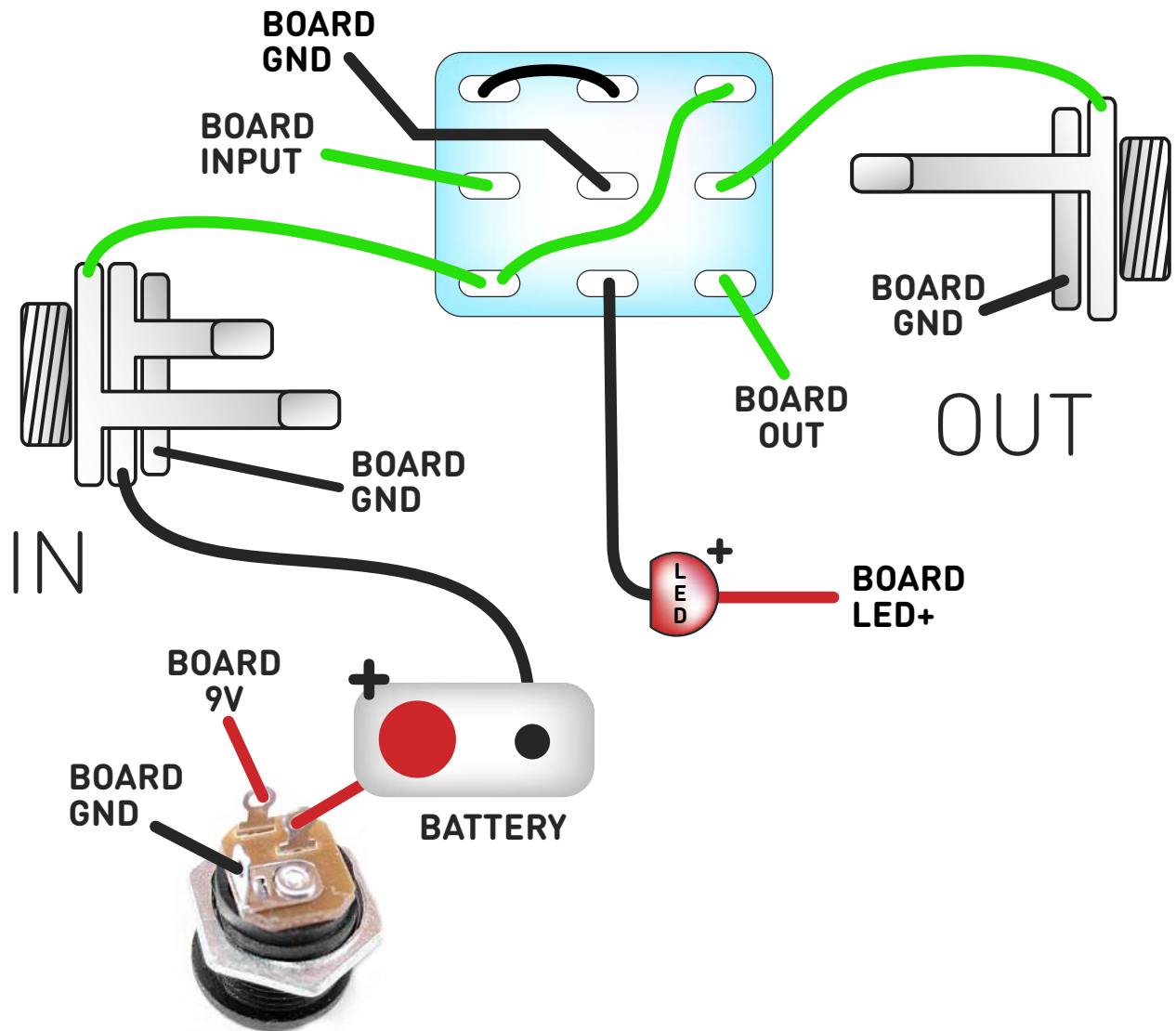


Once you've finished the circuit it makes sense to test it before starting on the switch and LED wiring. It'll cut down troubleshooting time in the long run. If the circuit works at this stage, but it doesn't once you wire up the switch - guess what? You've probably made a mistake with the switch.

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... nang nang nang!

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