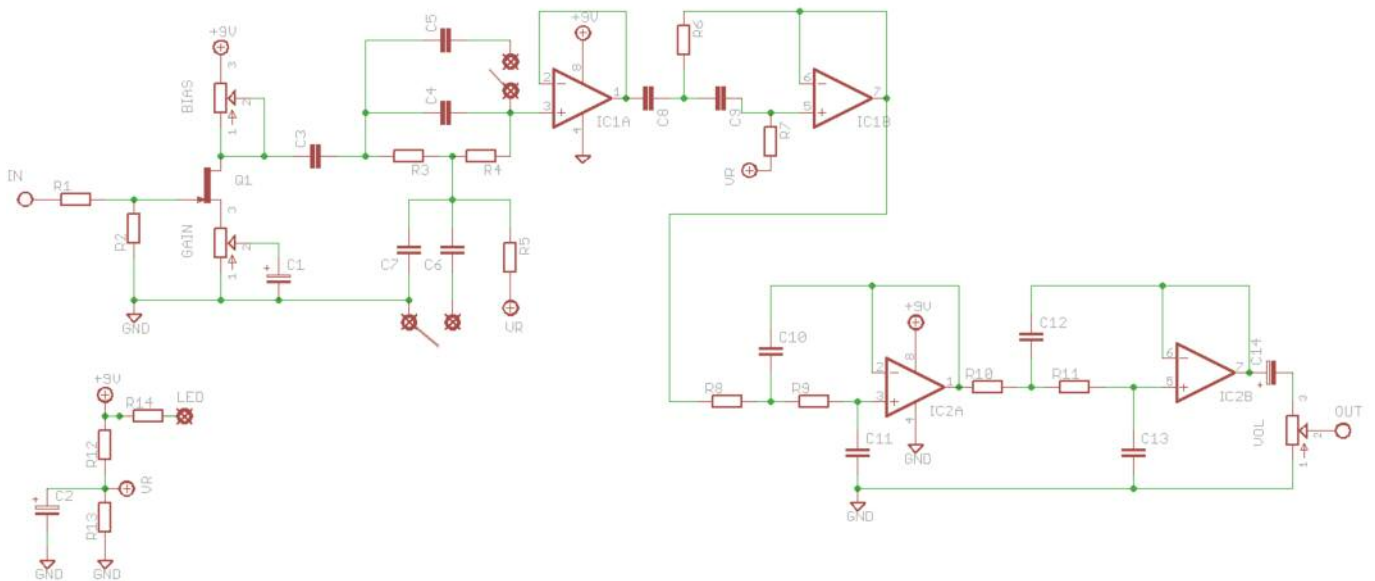


Cab Sim

Cabinet Simulator
based on the ROG Condor

PedalParts.co.uk

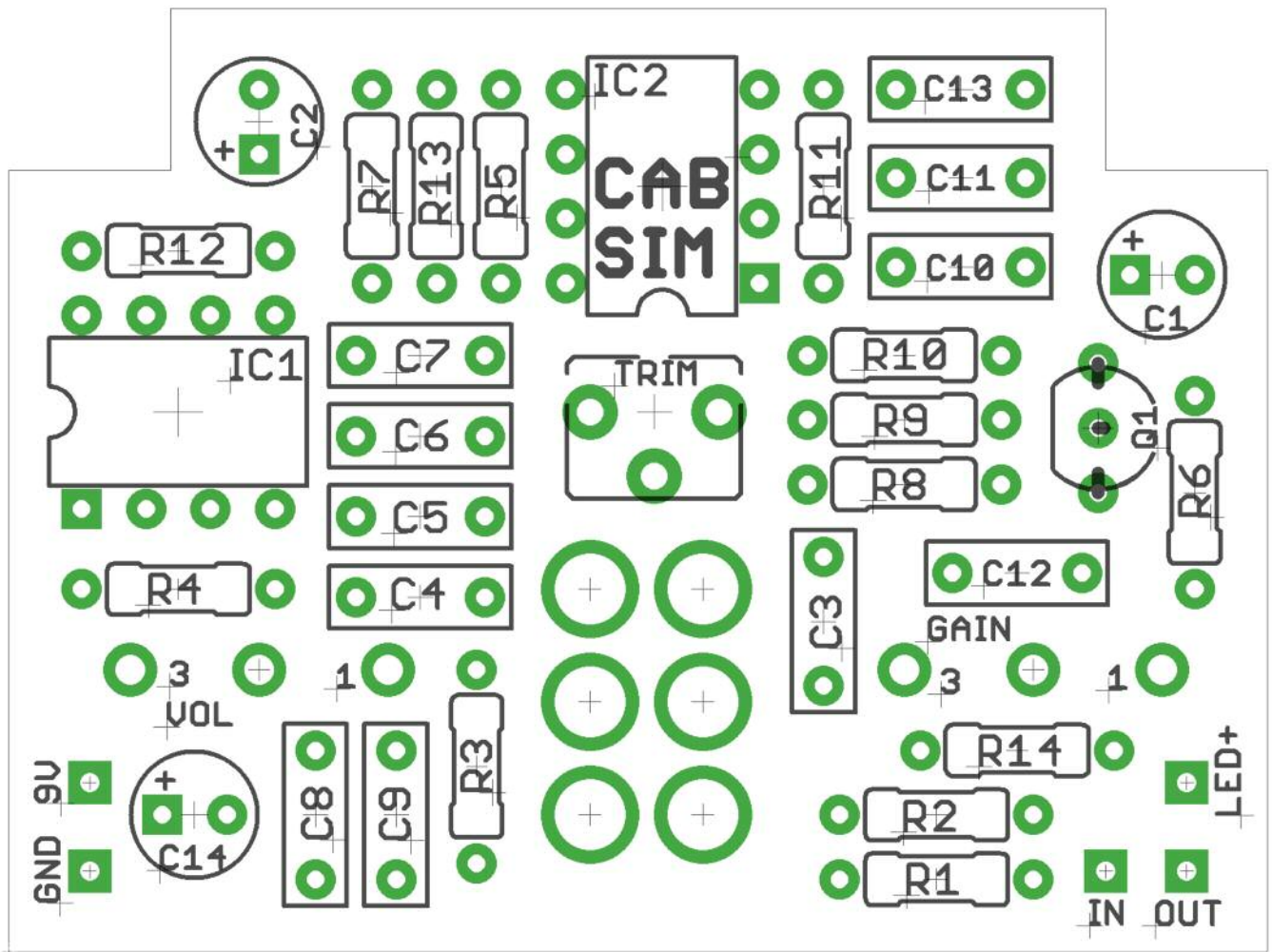
Schematic



Parts listed in black are for the full build, including the Marshall Notch Depth switch. To build the circuit stock, see [values in BLUE](#) for C5-7 and omit the DPDT switch.

BOM

R1	18K	C1	22u electrolytic
R2	1M	C2	22u electrolytic
R3	100K	C3	47n
R4	100K	C4	1n
R5	100K	C5	1n2 (empty)
R6	18K	C6	8n2 (empty)
R7	100K	C7	6n8 (15n)
R8	22K	C8	47n
R9	22K	C9	47n
R10	22K	C10	3n9
R11	22K	C11	1n
R12	22K	C12	3n9
R13	22K	C13	1n
R14	2K2 (CLR)	C14	22u electrolytic
BIAS	100K TRIM	GAIN	1KB
IC1, 2	4558	VOL	10KA
Q1	J201	SWITCH	DPDT ON-ON



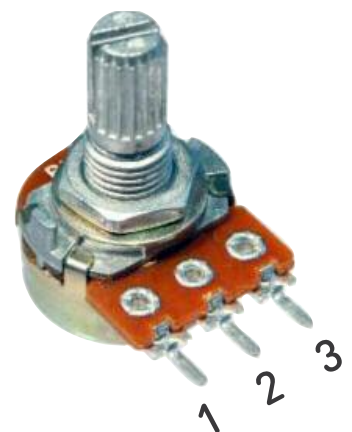
Pots can be mounted in position using header pins or snipped leg components, or just use wire as normal.

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

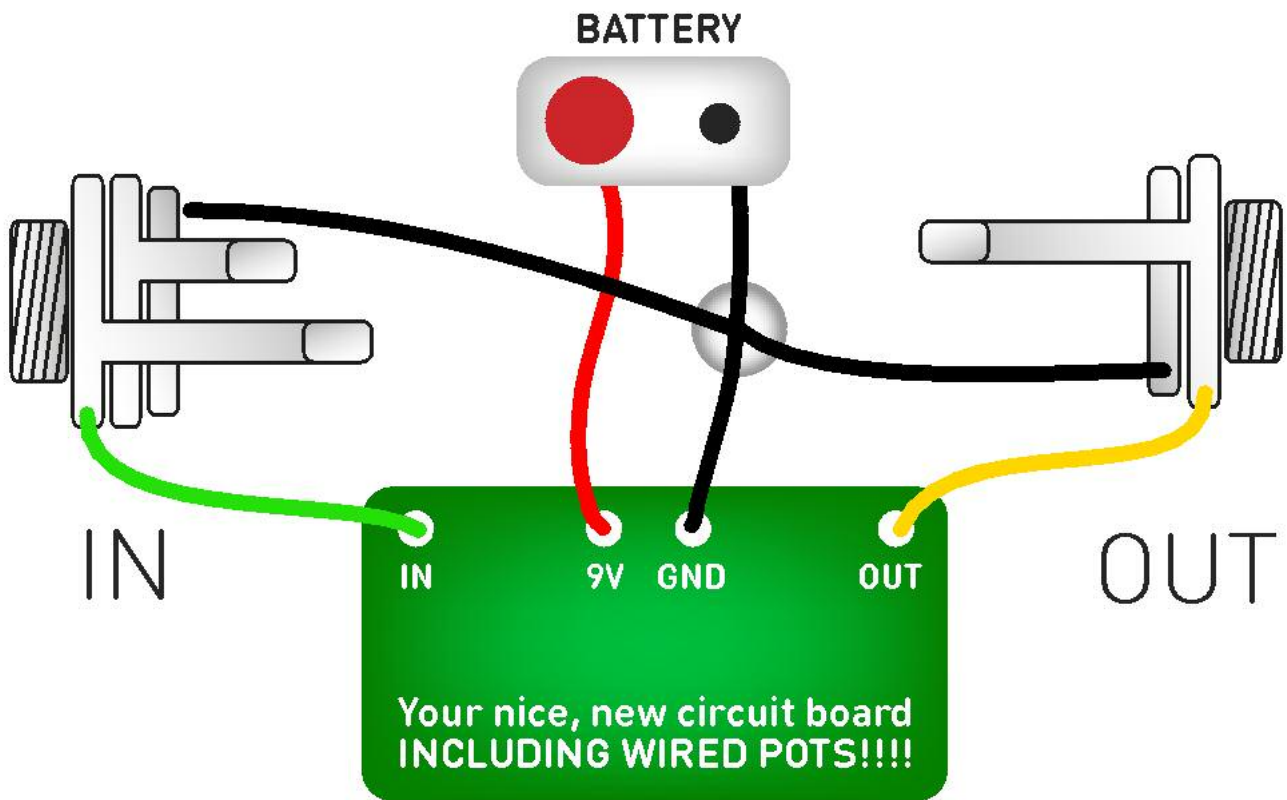
Snap the little metal tag off the pots to mount them flush in the box.

Pots and switch (if you're using one) mount on the underside of the PCB.

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.



Test the board!

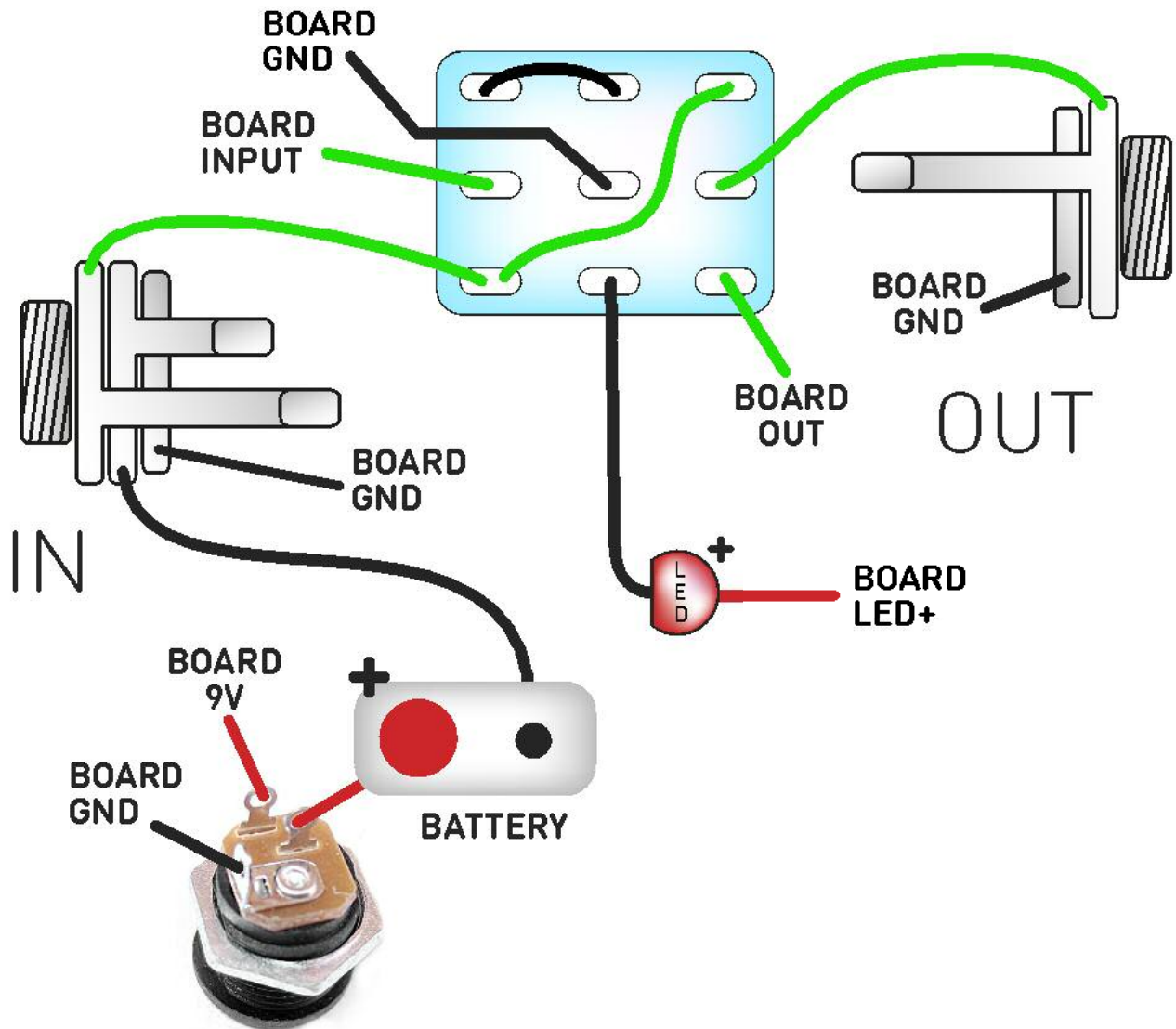


Once you've finished the circuit it makes sense to test it before starting on the switch and LED wiring. It'll cut down troubleshooting time in the long run. If the circuit works at this stage, but it doesn't once you wire up the switch - guess what? You've probably made a mistake with the switch.

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.

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