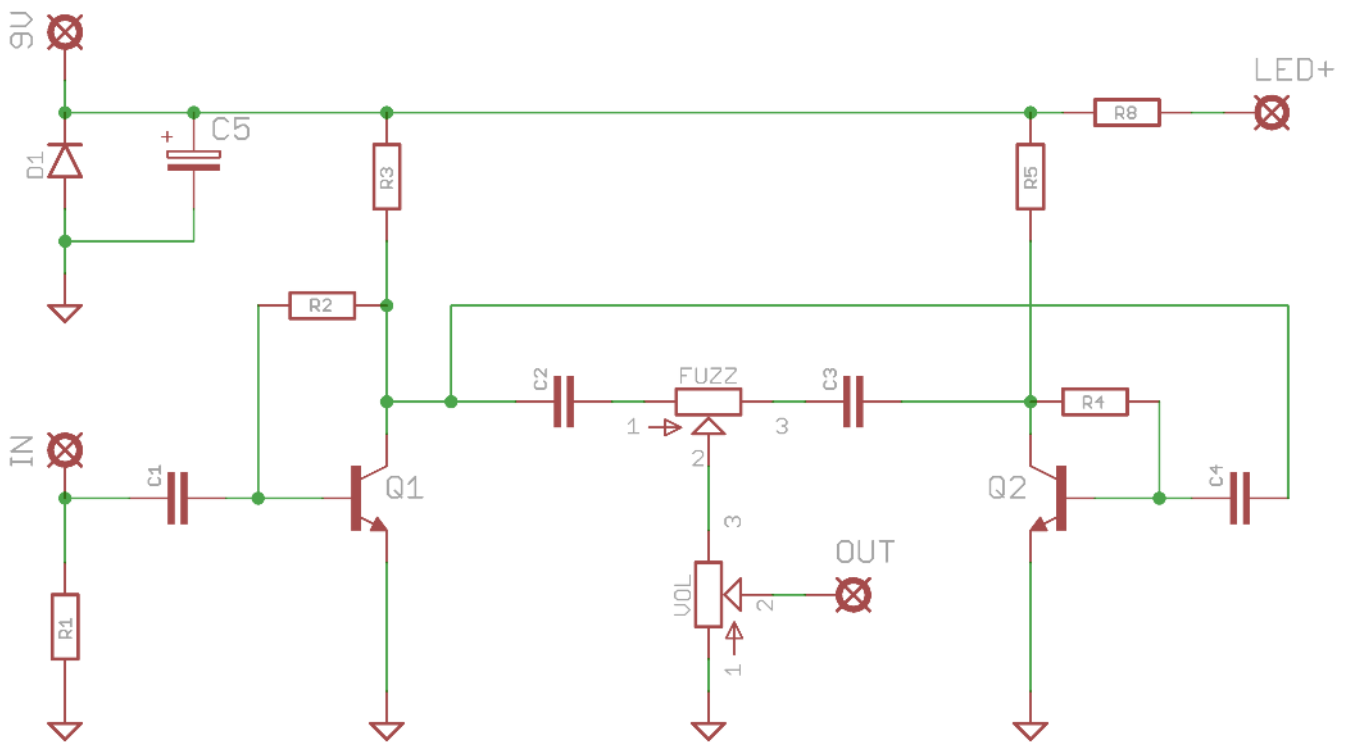


Fuzz Rite v2.0

Mosrite FuzzRite /
Gus' Rite Fuzz



Schematic + BOM - Fuzz Rite

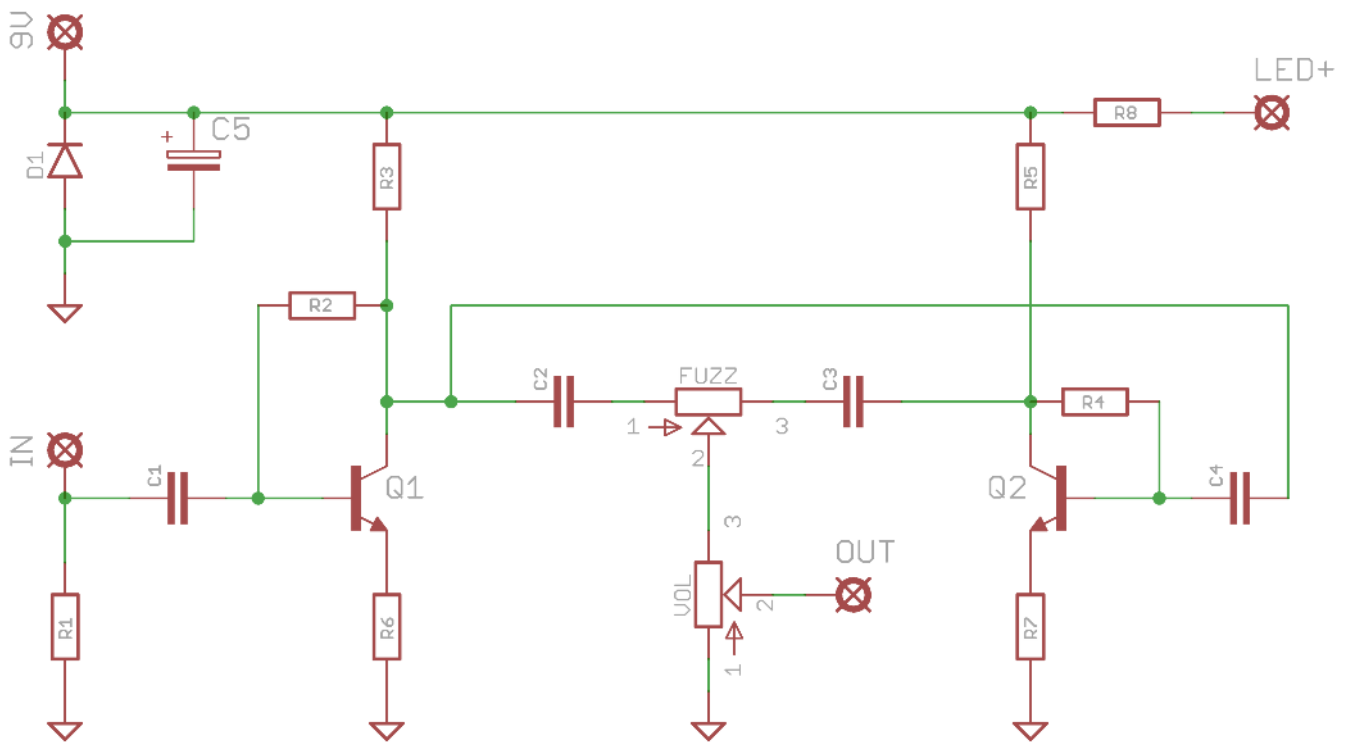


R1	1M	C1	47n
R2	470K	C2	2n2
R3	470K	C3	2n2
R4	470K	C4	47n
R5	470K	C5	100u elec
R6	Jumper	D1	1N4001
R7	Jumper	FUZZ	500KB**
R8	CLR (2K2)	VOL	50KA**
Q1	BC107*		
Q2	BC108*		

*Experiment with any low gain NPN silicon transistors. This was our favourite combo.

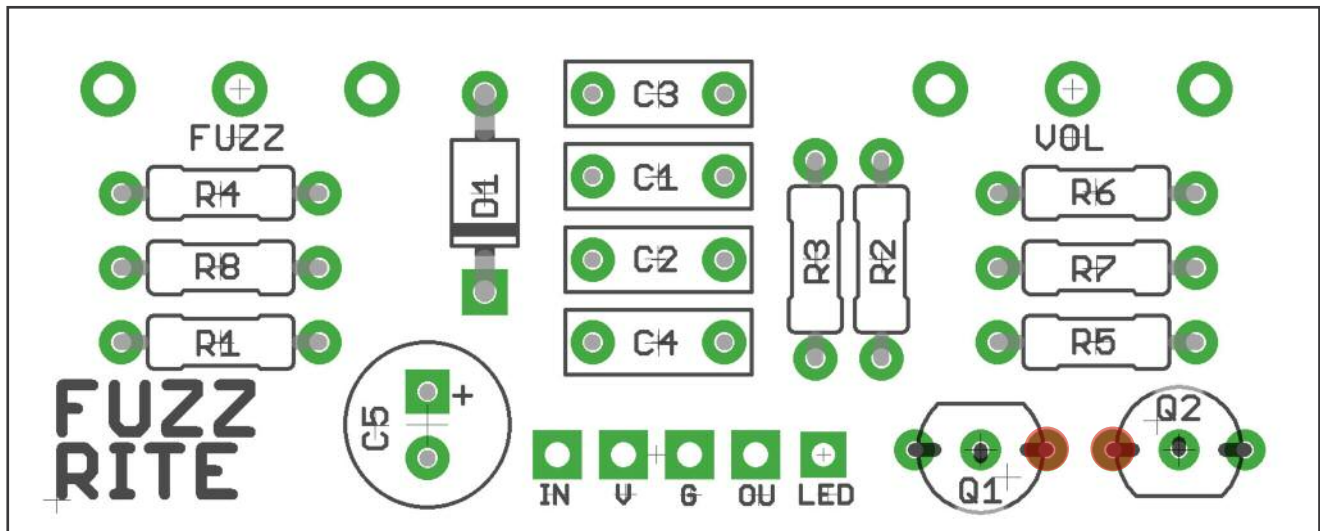
**Originally 350K and 33K but these are the closest available modern values.

Schematic + BOM - Gus' Rite Fuzz



R1	1M	C1	100n
R2	470K	C2	100n
R3	10K	C3	100n
R4	470K	C4	100n
R5	10K	C5	100u elec
R6	100R	D1	1N4001
R7	100R		
R8	CLR (2K2)		
Q1	2N3904	FUZZ	100KB
Q2	2N3904	VOL	100KA

Much beefier than the stock circuit. Depends what you're after...



The power and signal pads on the PCB conform to the FuzzDog Direct Connection format, so can be paired with the appropriate daughterboard for quick and easy offboard wiring. Check the separate daughterboard document for details.

Be very careful when soldering the diode and transistors. They're very sensitive to heat. You should use some kind of heat sink (crocodile clip or reverse action tweezers) on each leg as you solder them. Keep exposure to heat to a minimum (under 2 seconds). Snap the small metal tag off the pots so they can be mounted flush in the box.

Positive (anode) legs of the electrolytic caps go to the square pads. There's space to lay C5 flat across the PCB to give you extra clearance in the enclosure.

Negative (cathode) legs of the diodes go to the square pads.

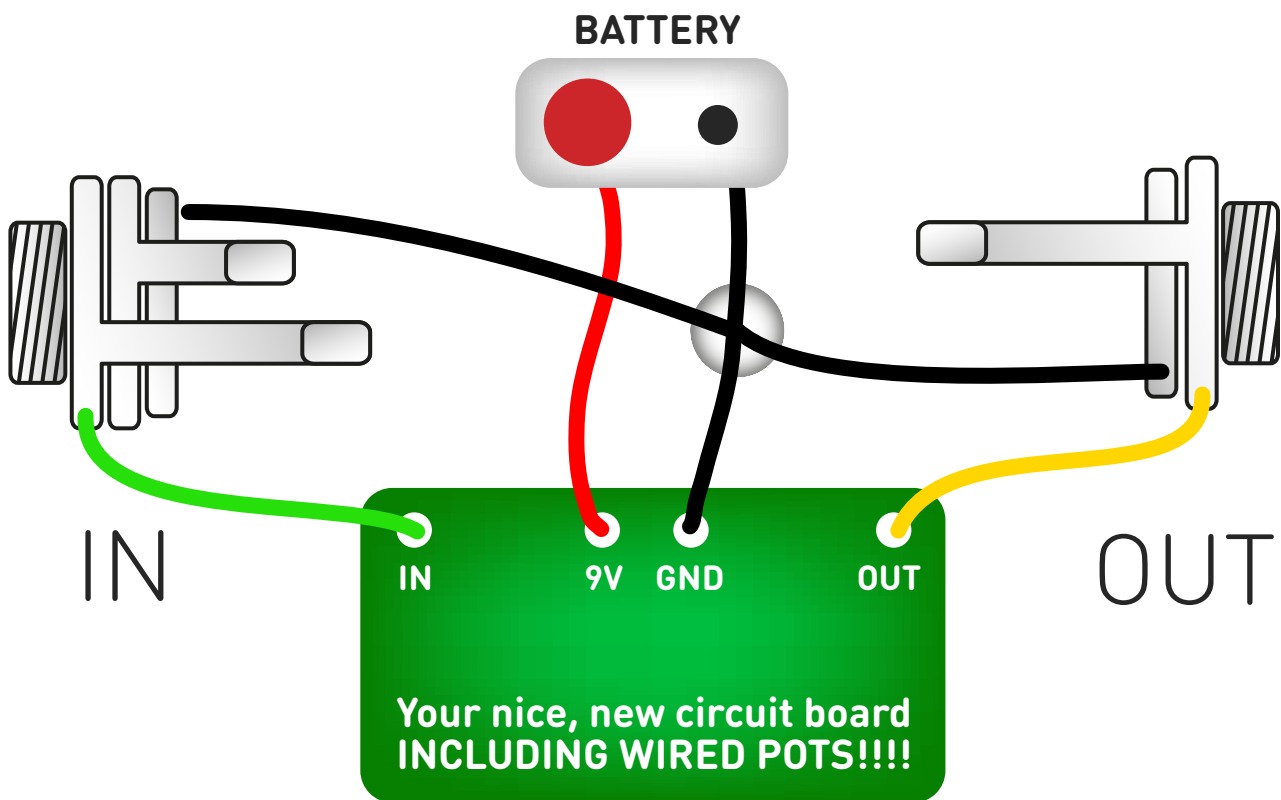
You should solder all other board-mounted components before you solder the pots. Once they're in place you'll have no access to much of the board. Make sure your pots all line up nicely. The best way to do that is to solder a single pin of each pot in place then melt and adjust if necessary before soldering in the other two pins. If your pots don't have protective plastic jackets ensure you leave a decent gap between the pot body and the PCB otherwise you risk shorting out the circuit.

Transistor Orientation

If you're using 2N3904, follow the shapes shown on the PCB screen print.

If you're using BC107-8, see the cover image. Emitter pads are marked in red on the PCB image at the top of the page.

Test the board!



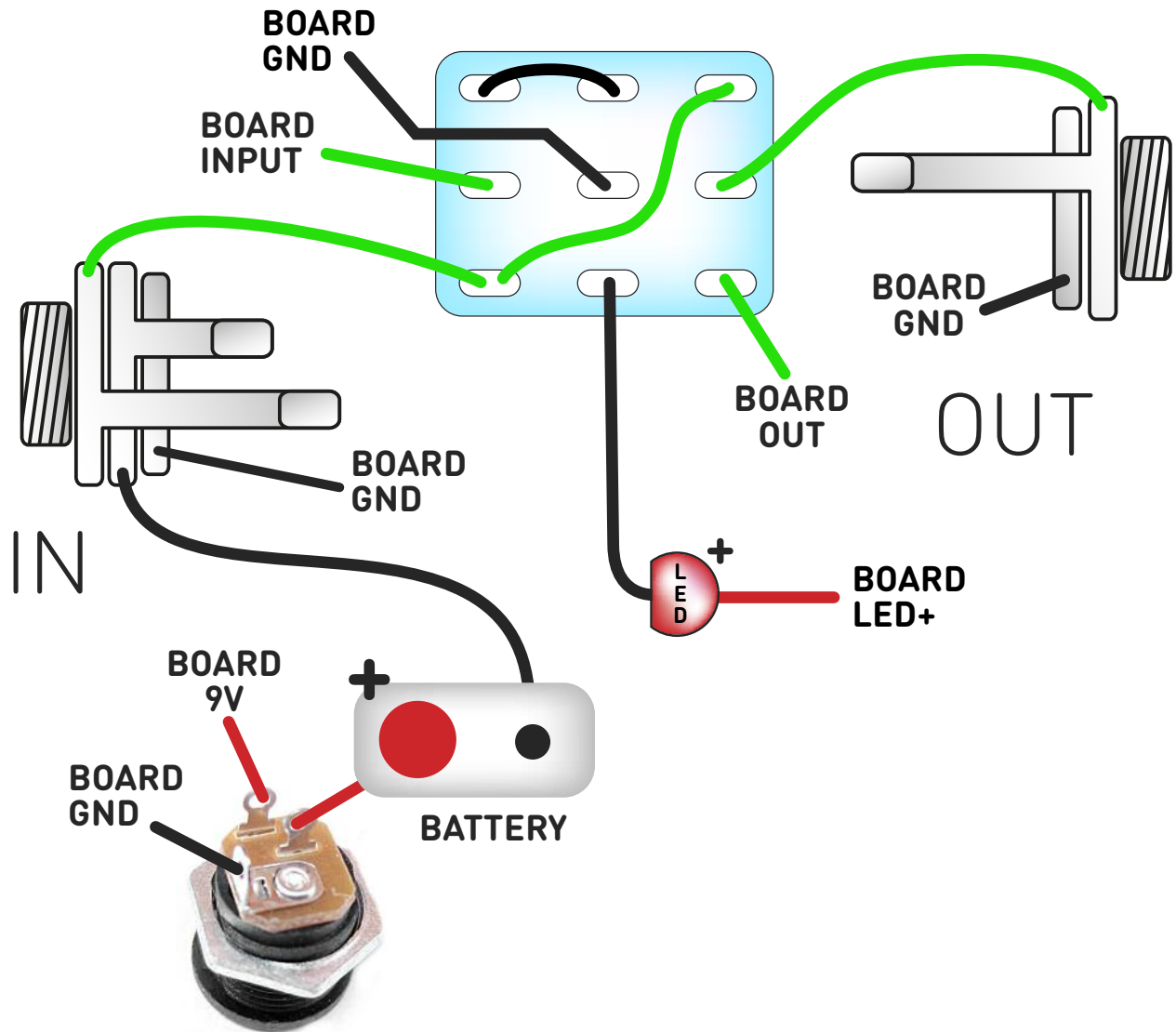
UNDER NO CIRCUMSTANCES will troubleshooting help be offered if you have skipped this stage. No exceptions.

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 (if using a daughterboard please refer to the relevant document)



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.

PedalParts.co.uk

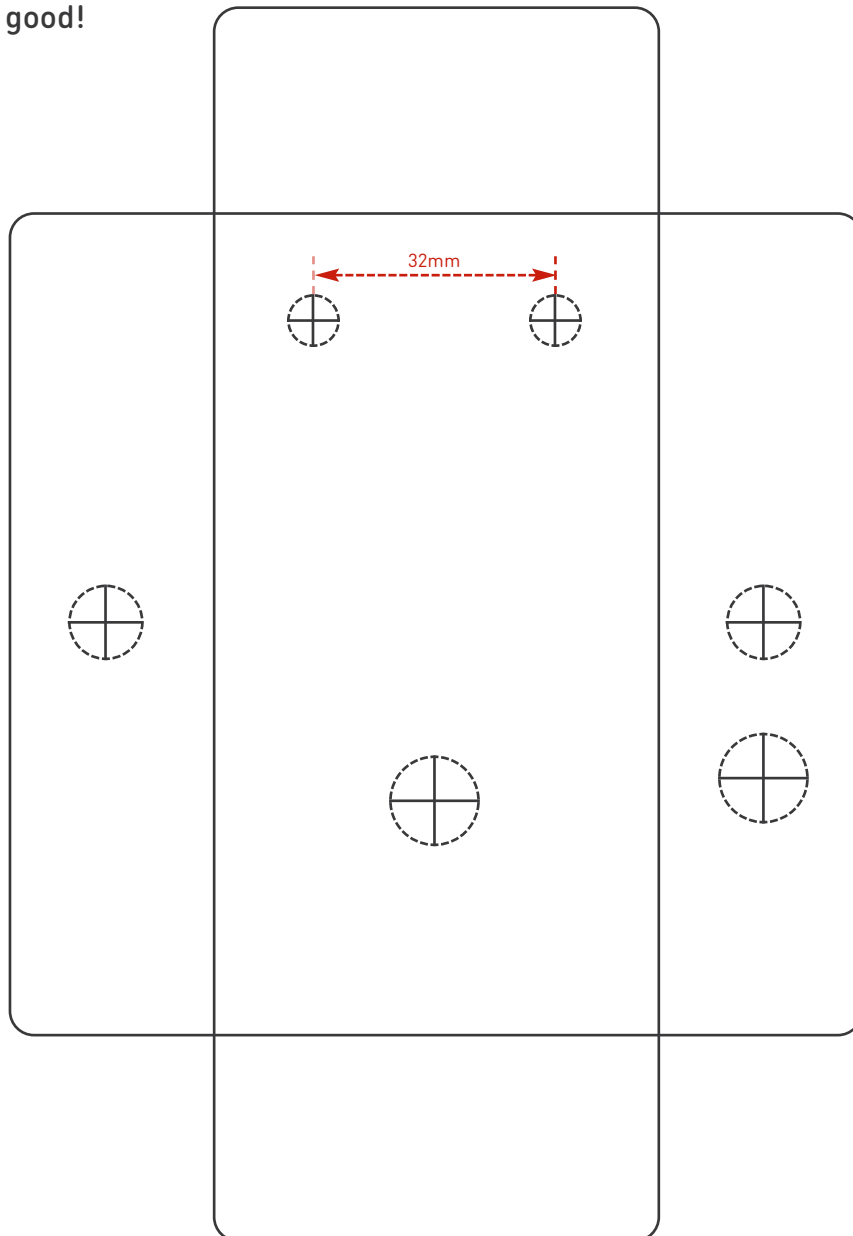
Drilling template

Hammond 1590B
60 x 111 x 31mm

Recommended drill sizes:

Pots	7mm
Jacks	10mm
Footswitch	12mm
DC Socket	12mm

It's a good idea to drill the pot holes 1mm bigger if you're board-mounting them.
Wiggle room = good!



This template is a rough guide only. You should ensure correct marking of your enclosure before drilling. You use this template at your own risk.
Pedal Parts Ltd can accept no responsibility for incorrect drilling of enclosures.

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