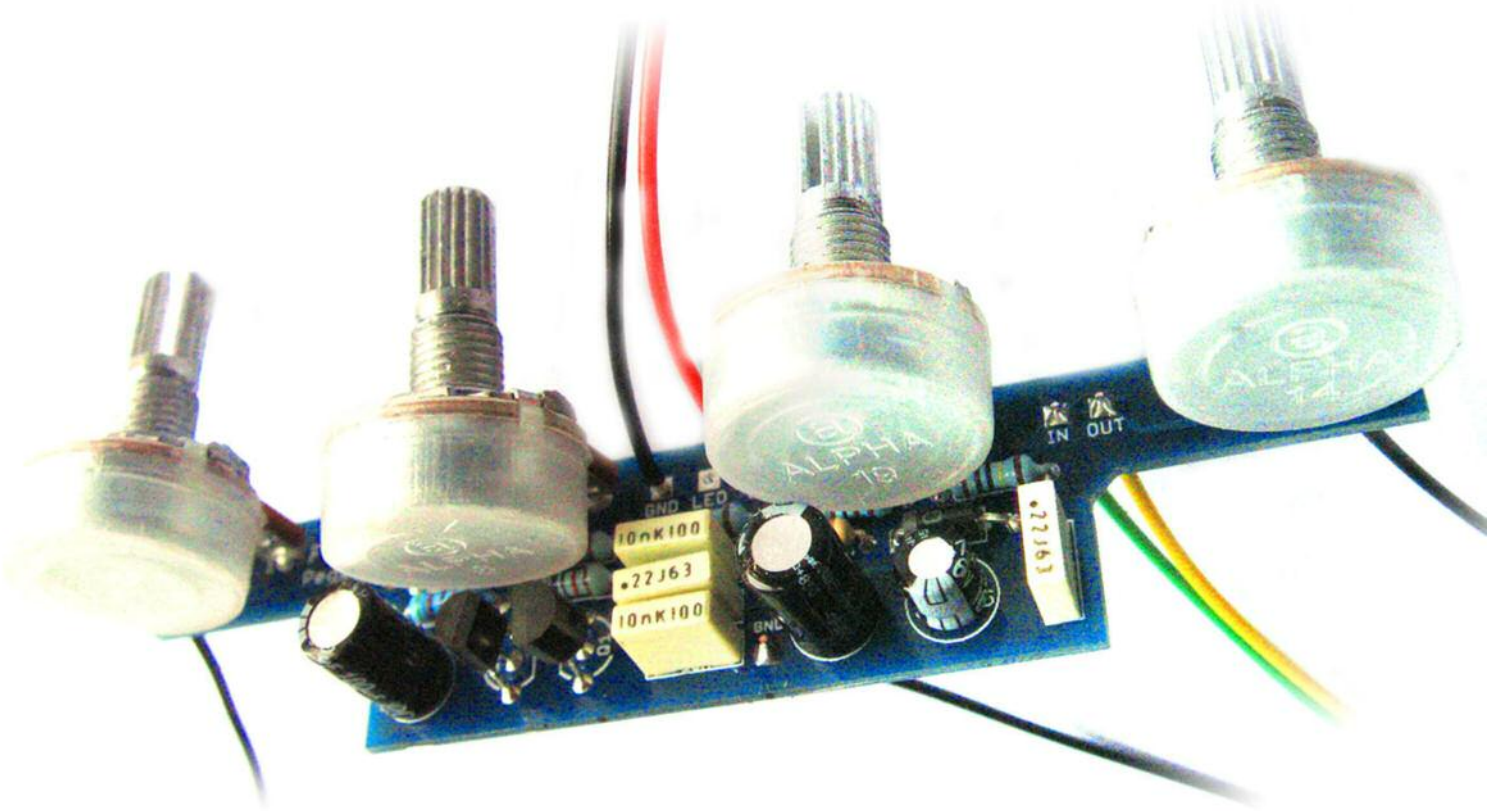
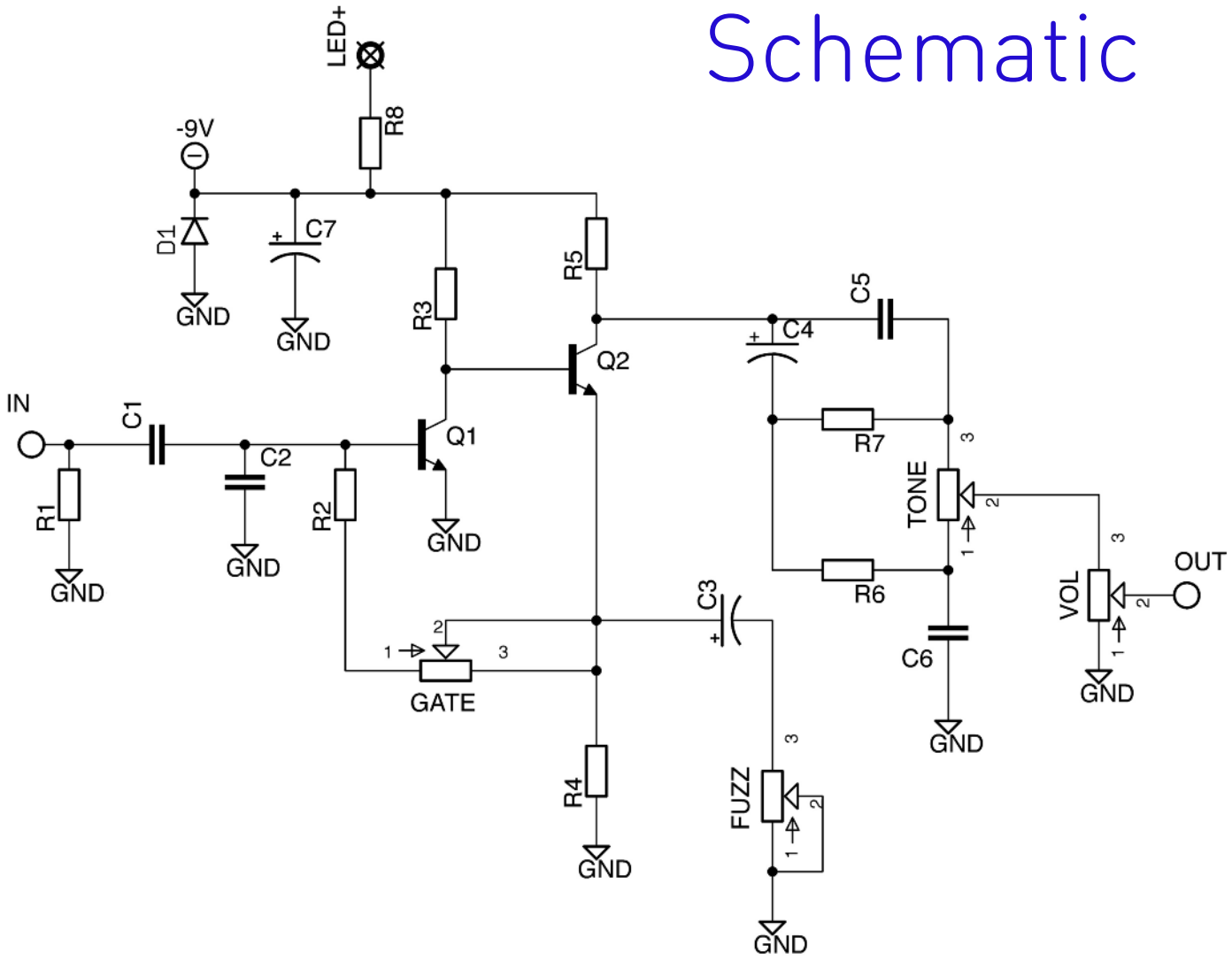


Fat Furry Freak

Clone of the four-knobbed extreme Bass fuzz monster that is equally brutal on guitar

PedalParts.co.uk

Schematic



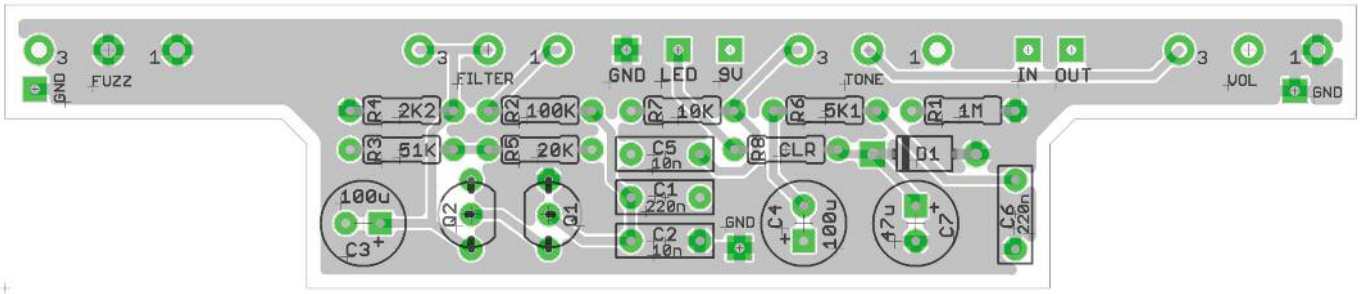
BOM

R1	1M	C1	220n	Q1,2	2N3904
R2	100K	C2	10n		
R3	51K	C3	100u	D1	1N4001
R4	2K2	C4	100u		
R5	20K	C5	10n	GATE	500KB
R6	5K1	C6	220n	FUZZ	2KB*
R7	10K	C7	47u	TONE	10KB
R8	2K2 (carbon)			VOL	10KB

Pots marked above refer to the PedalParts PCB.
These are equivalent to:

PINCH (Gate), WOOL (Fuzz), E.Q. (Tone), OUTPUT (Vol).

***original uses 2K linear. a 5k reverse log is much better.**



Pots should mount on the same side as the components.

It'll be easier to solder the wires before mounting the pots.

There are several GND pads to make it easier to wire up without having to daisy-chain your GND signal. Use the two furthest to the left and right for your jacks, the one next to C2 for your footswitch, and one next to the 9V for the DC connector.

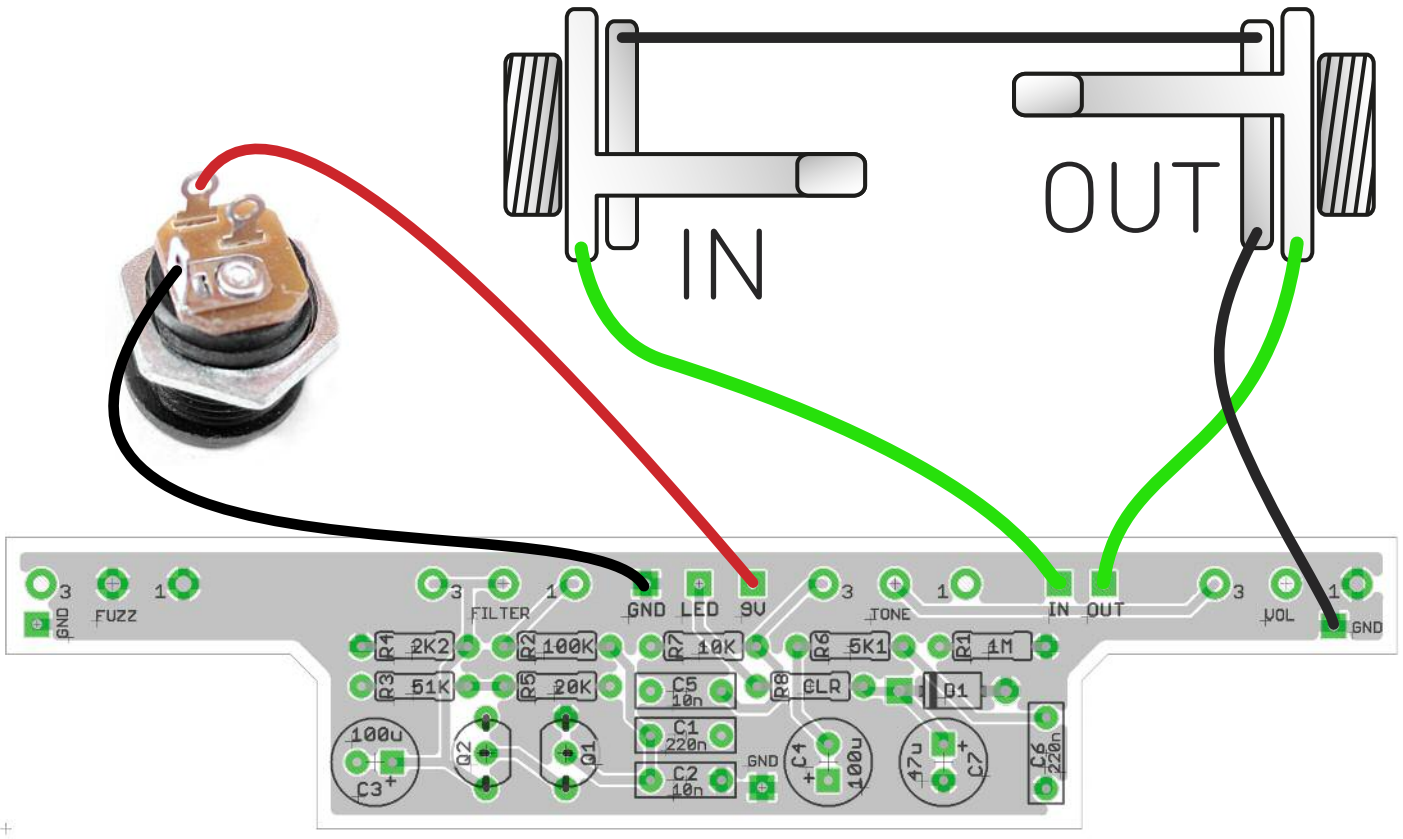
It makes sense to attach some of the wires to the underside of the PCB, i.e. the IN and OUT wires, the GND for the footswitch and the LED+.

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

You should use some kind of heat sink on the legs of the transistors when soldering. They aren't keen on heat. Any more than 3-4 seconds of iron and they're toast.

Recommended assembly order:
Resistors, Caps, Transistors, Wires, Pots

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.

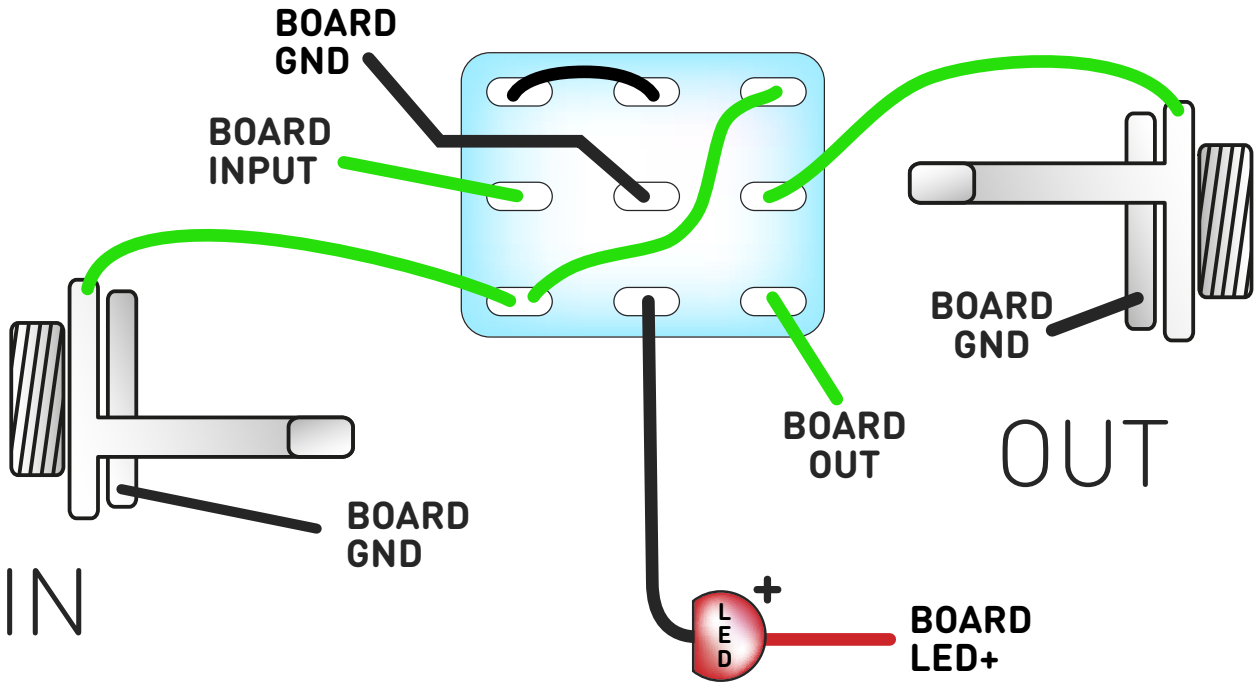
Solder some nice, long lengths of wire to the board connections for 9V, GND, IN and OUT.

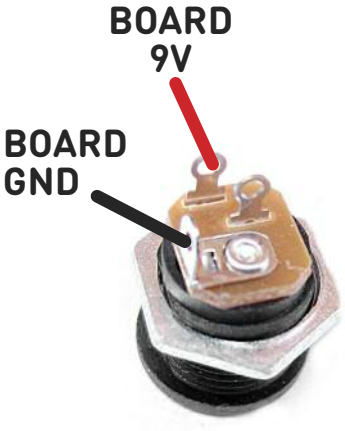
Connect IN and OUT to the outer jack lugs, and a GND connection to each of the inner jack lugs. You can connect both to a GND connection, or just one of them + a wire between them as shown.

Connect GND and 9V to the correct lugs on the DC connector.

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 will ground the board input when bypassed. This helps eliminate any unwanted noise.

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 GET FUZZY!

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