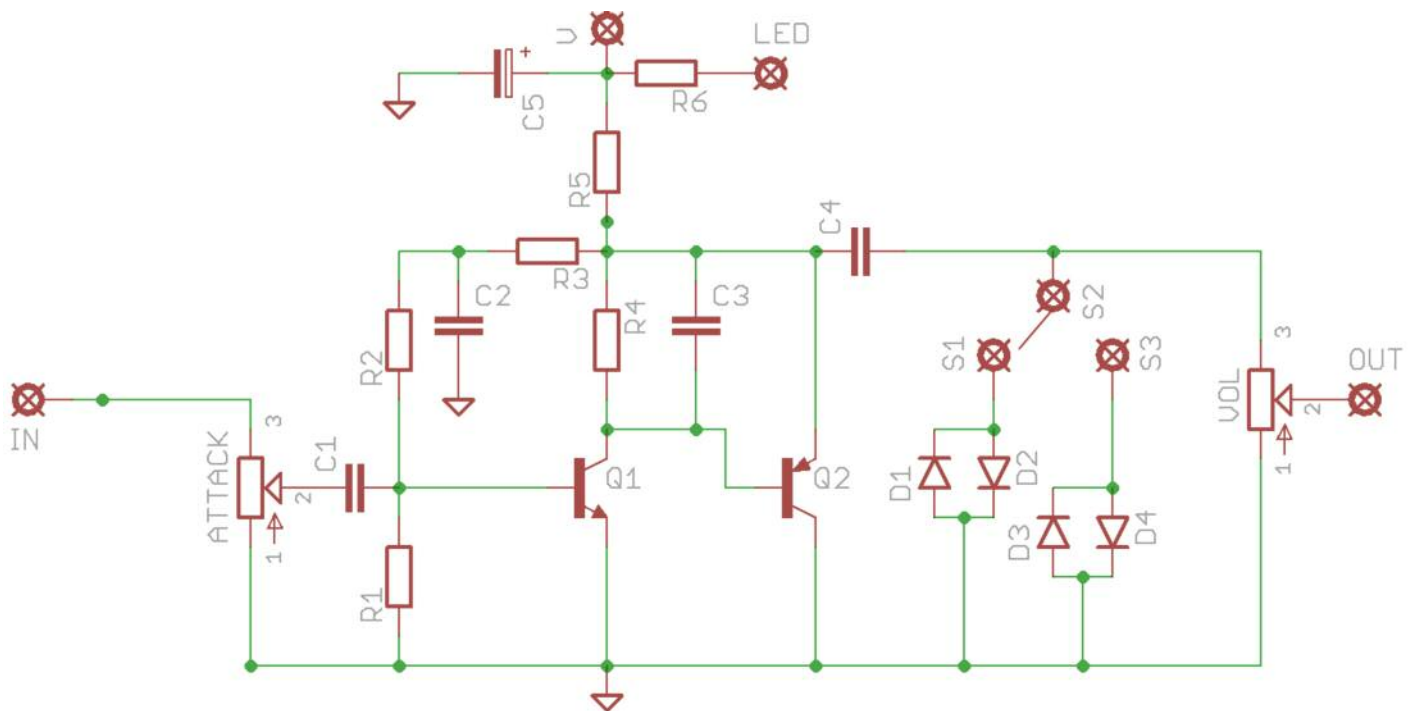


Bosstone

Clone of an all-time classic fuzz by Jordan



Schematic

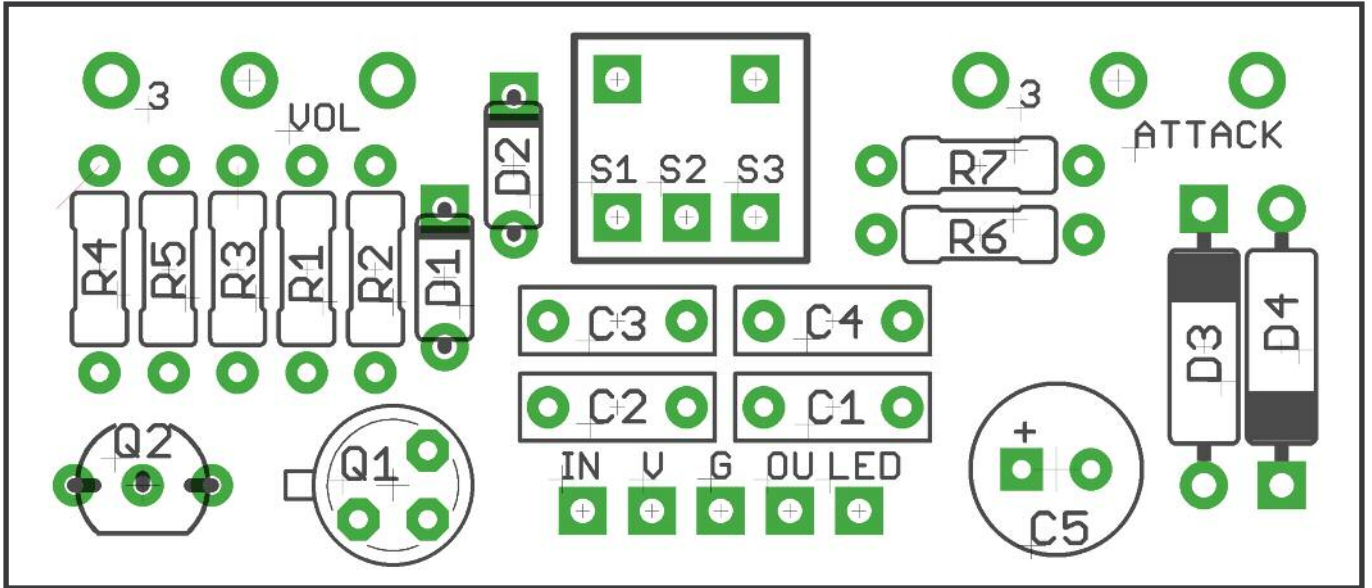


BOM

R1	150K	C1	22n	Q1	2n2222
R2	560K	C2	22n	Q2	2n3906
R3	560K	C3	47p		
R4	18K	C4	22n	ATTACK	100KB
R5	18K			VOL	100KA
R6	2K2 (CLR)	D1,2	1N4148		
R7	Ignore	D3,4	*	SWITCH	SPDT

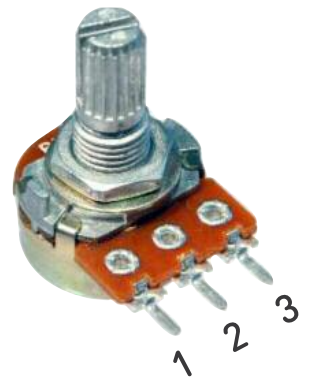
*Extra spots have been added for a second set of clipping diodes. These are optional, but experimentation is fun. Try germaniums or LEDs.

See later in the doc for info about the switching.



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.

Be very careful when soldering the diodes 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.

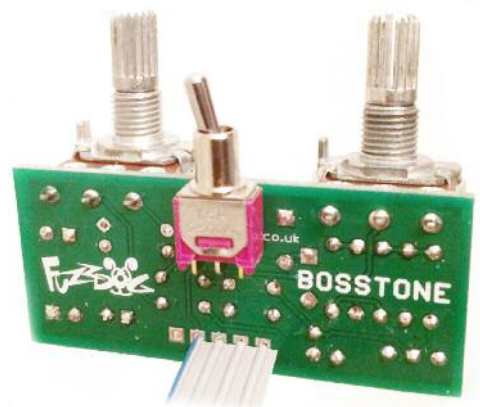
Pot mounts on the back side of the board. You can use vertical-mount pots or just wire up 'normal' ones.

The striped leg (cathode) of the diodes go into the square pads.

The long leg (anode) of the electrolytic capacitors go into the square pads.

D3 and D4 are optional. To build the circuit in stock format with fixed clipping, leave these out and put a jumper wire between pads S1 and S2.

To add the optional clipping switch, populate D3 and D4 with your choice of diode (1N34 work well), and add your selection switch. This can be a standard SPDT ON-ON toggle switch, or a micro toggle as shown, which should locate nicely into the pads provided. This can go either side of the PCB, depending how far you want your switch from your knobs.

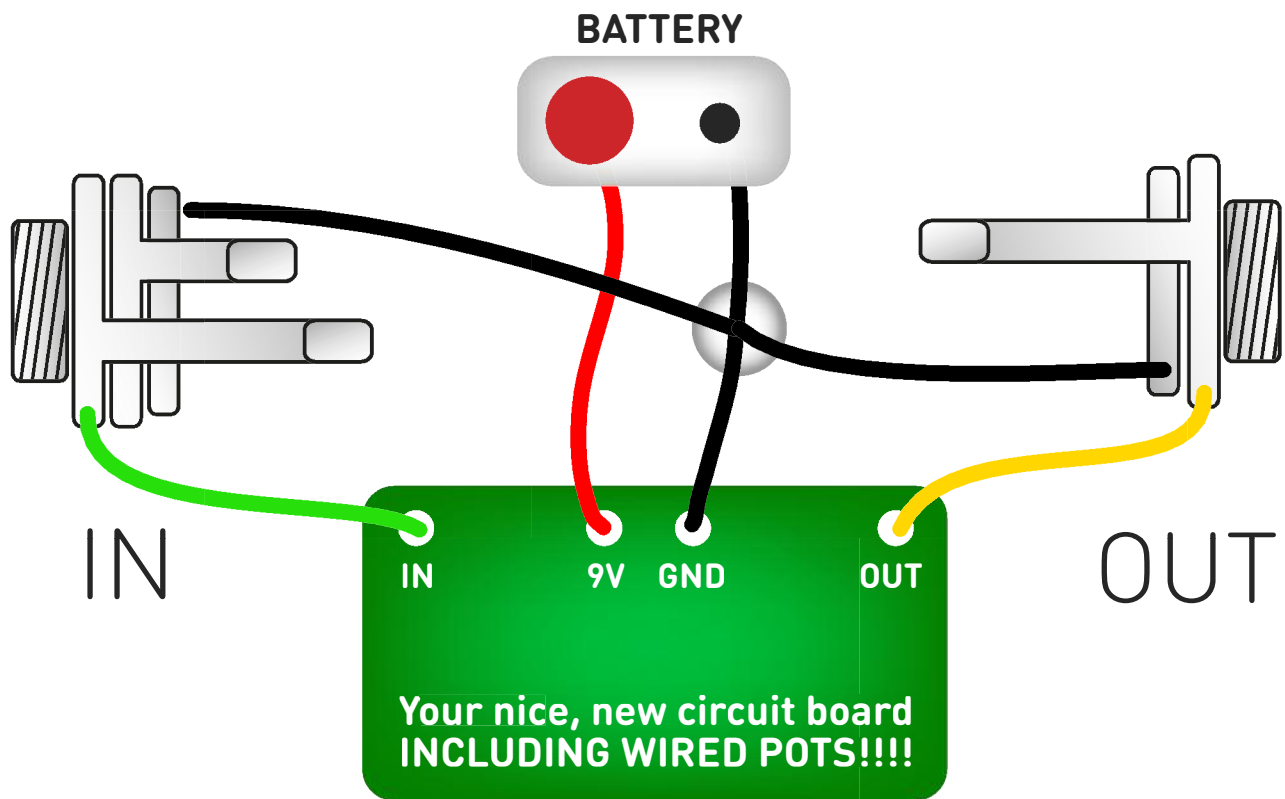


For extra fun you could make this a SPDT ON-OFF-ON switch. The middle position will take out the clipping altogether, giving you a very loud overdrive effect. The top two pads above the S1-3 pads are just location holes for the micro toggle. Nothing connects to these.



Bottom of a standard toggle switch
 <<<<<<

Test the board!



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

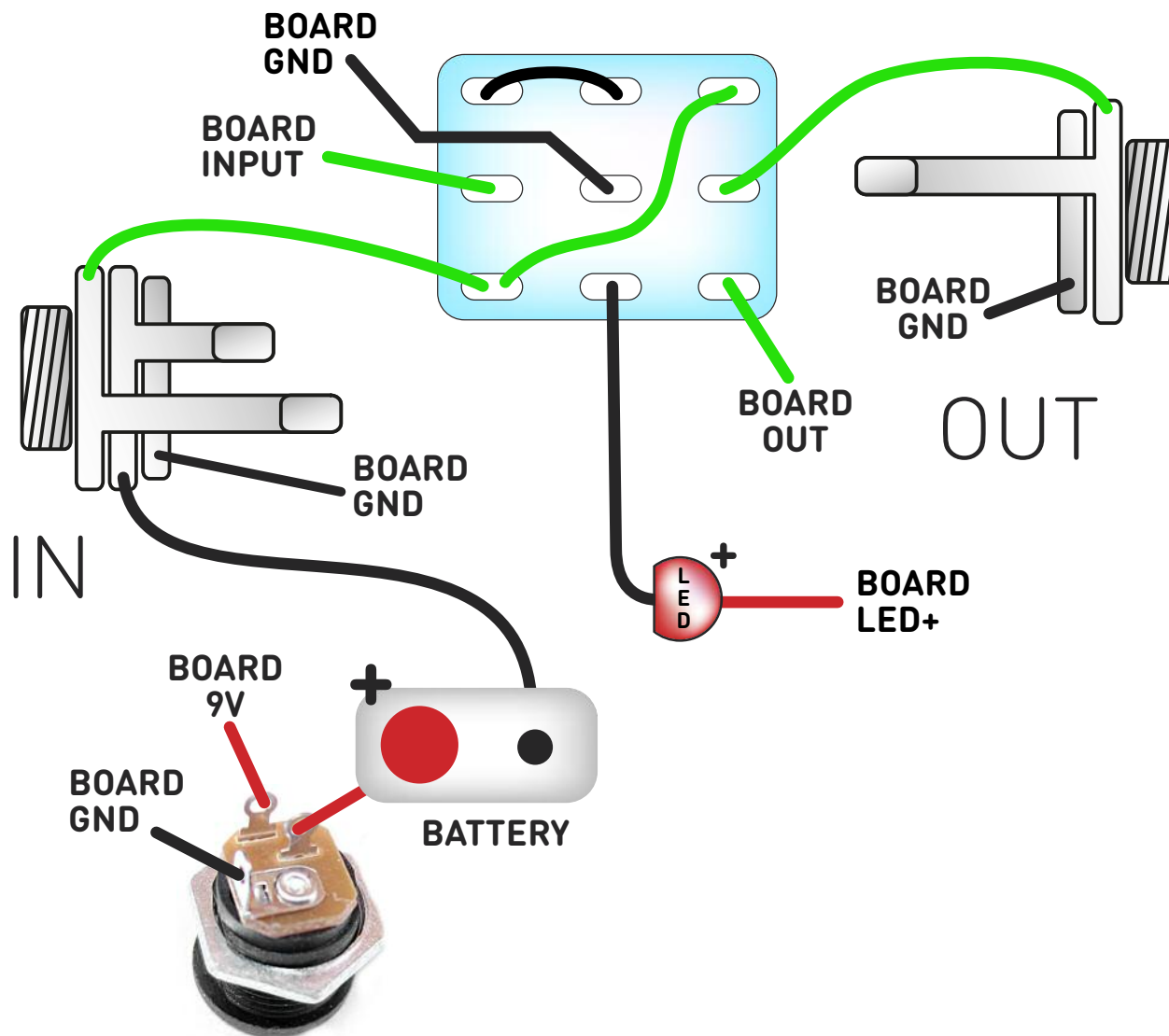
Once you've finished the circuit it makes sense to test it before starting on the switch and LED wiring. It'll cut down troubleshooting time in the long run. If the circuit works at this stage, but it doesn't once you wire up the switch - guess what? You've probably made a mistake with the switch.

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 - with battery

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

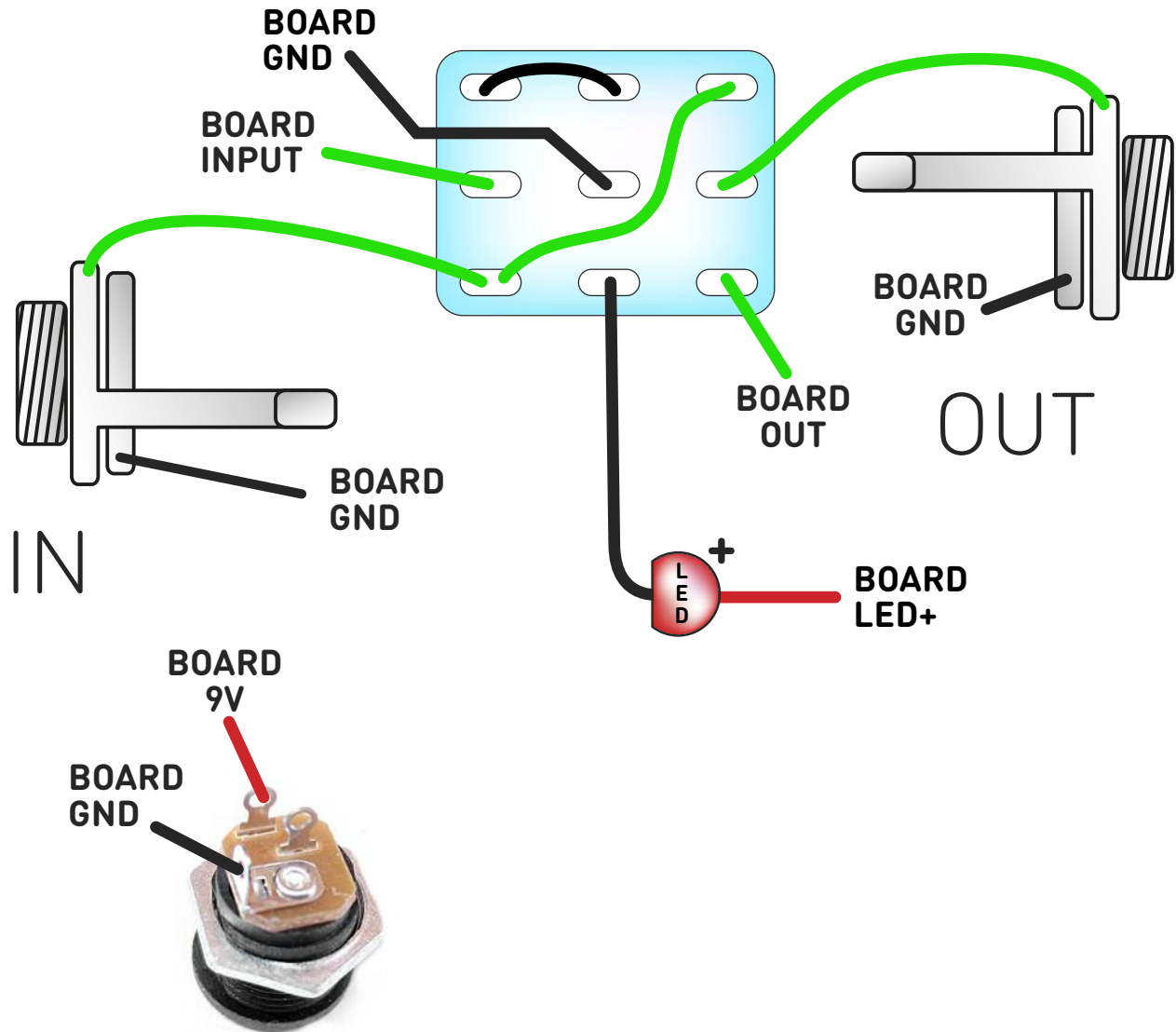


This circuit is standard, Negative GND. Your power supply should be Tip Negative / Sleeve Positive. That's the same as your standard pedals (Boss etc), and you can safely daisy-chain your supply to this pedal.

The BOARD GND connections don't all have to connect to one point. They can be daisy-chained around the circuit, using larger connection points (such as jack socket lugs) for multiple connections. As long as they all connect together in some way.

Wire it up - DC only version

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



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.

The BOARD GND connections don't all have to connect to one point. They can be daisy-chained around the circuit, using larger connection points (such as jack socket lugs) for multiple connections. As long as they all connect together in some way.

PedalParts.co.uk