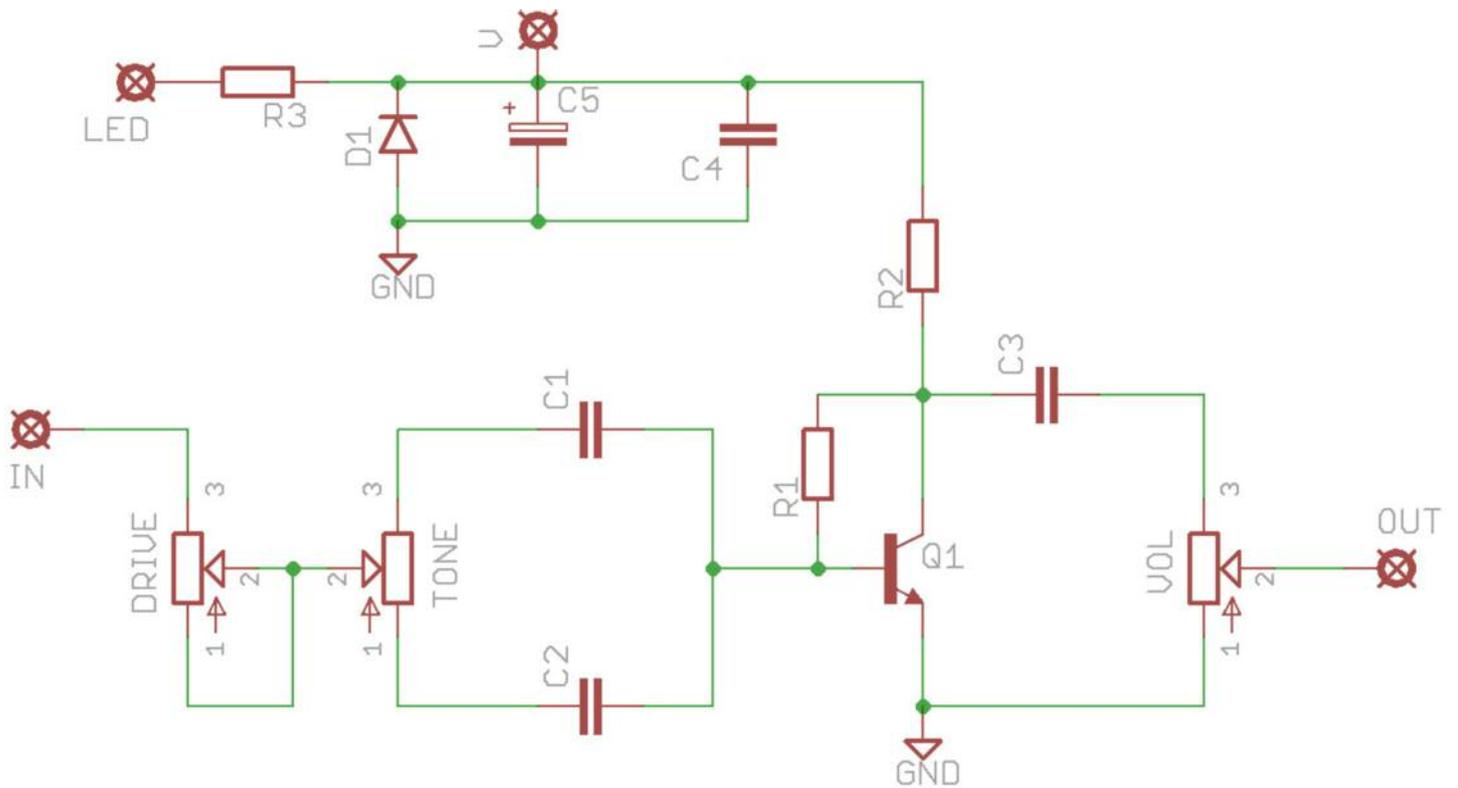


PARA-DRIVE

Super-Simple Overdrive

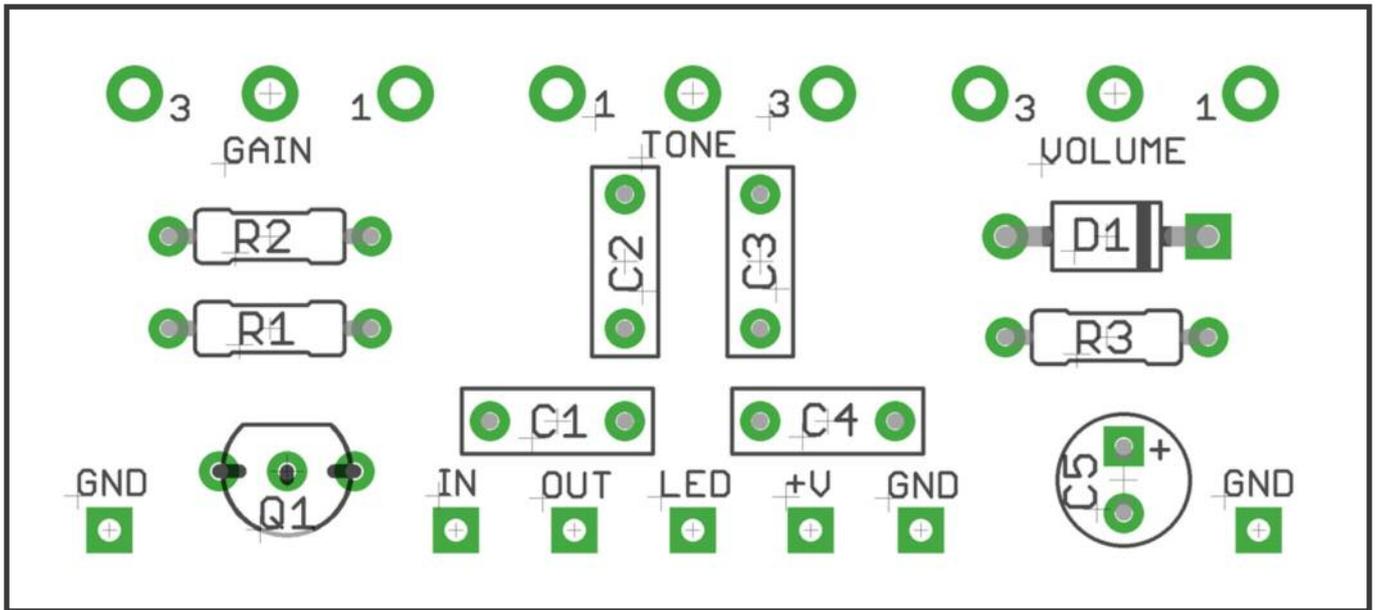
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Schematic



BOM

R1	2M	C1	2n2	DRIVE	250KB
R2	4K7	C2	220n	TONE	250KB
R3	2K2 (CLR)	C3	100n	VOL	250KB
D1	1N4001	C4	100n		
Q1	MPSA13	C5	47u elec		



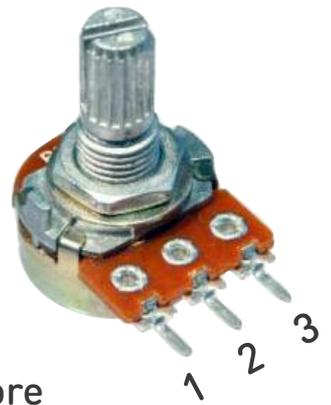
GAIN and VOLUME pots mount on the same side as the components. TONE goes on the other side.

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

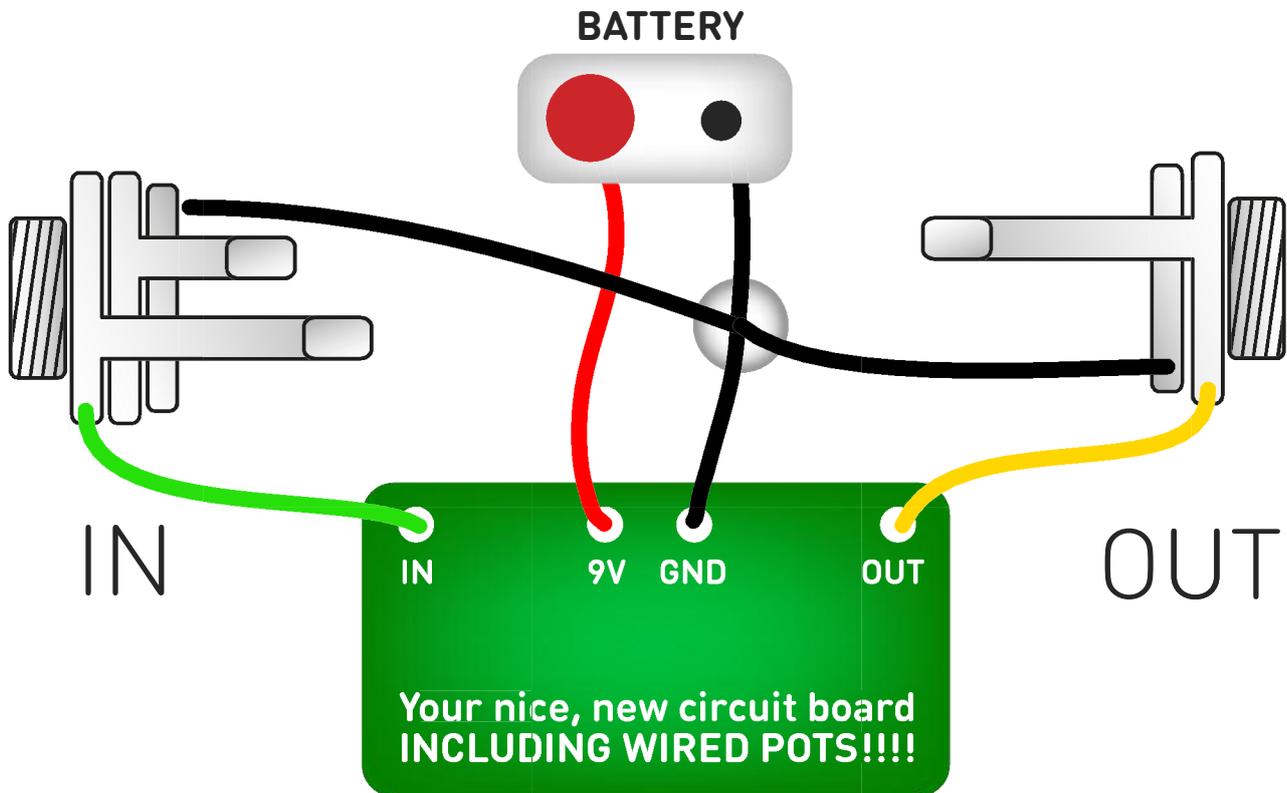
You should use some kind of heat sink on the legs of the transistor when soldering. They aren't keen on heat. Any more than 3-4 seconds of iron and they're toast.

I've incorporated the Current Limiting Resistor for the LED into the board for your pleasure.

The controls on this circuit are quite interactive. The tone knob will add/take out a lot of frequency which will make the gain seem higher/lower. Tweak!



Test the board!



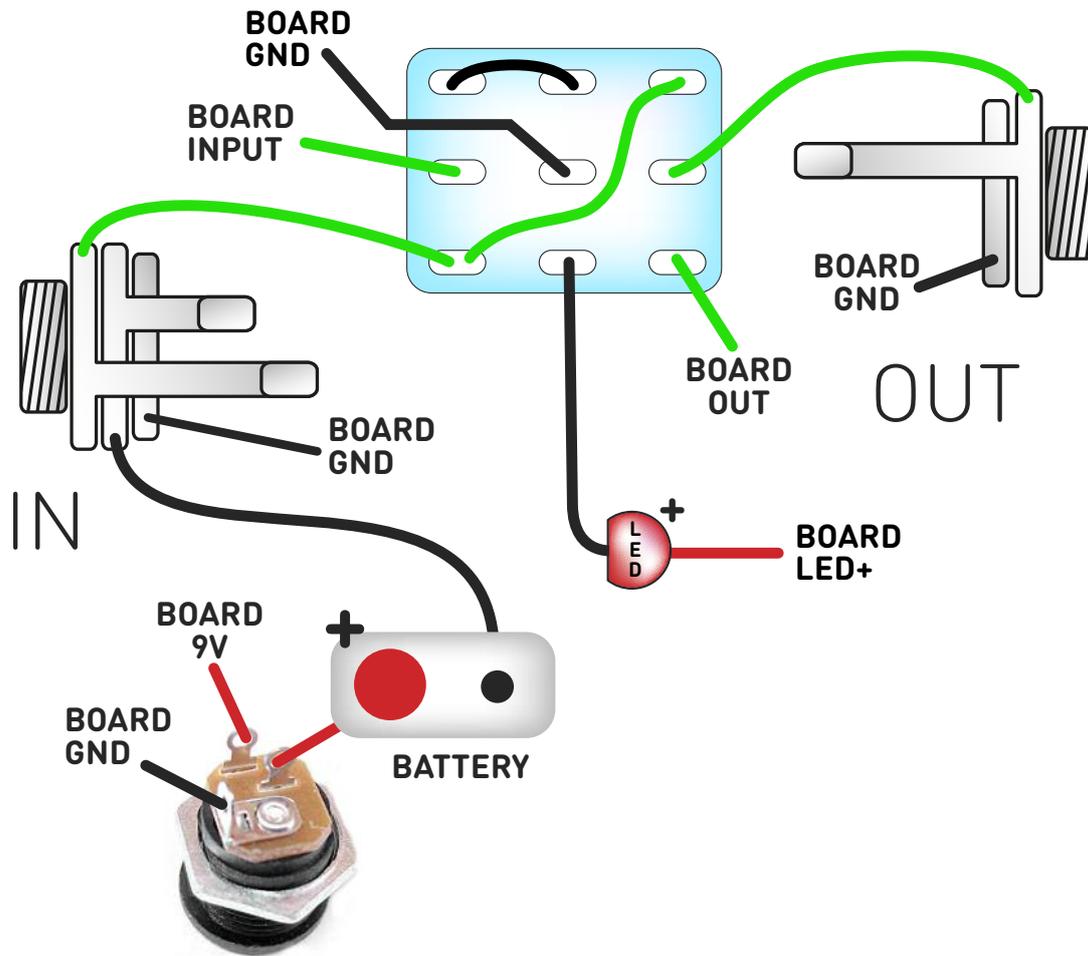
Once you've finished the circuit it makes sense to test it before starting on the switch and LED wiring. It'll cut down troubleshooting time in the long run. If the circuit works at this stage, but it doesn't once you wire up the switch - guess what? You've probably made a mistake with the switch.

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.

NO TROUBLESHOOTING HELP WILL BE GIVEN IF YOU SKIP THIS STAGE. NONE. IT TAKES 5 MINUTES - DO IT!

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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Drilling template

3 Knob Board-mount
pots with Battery

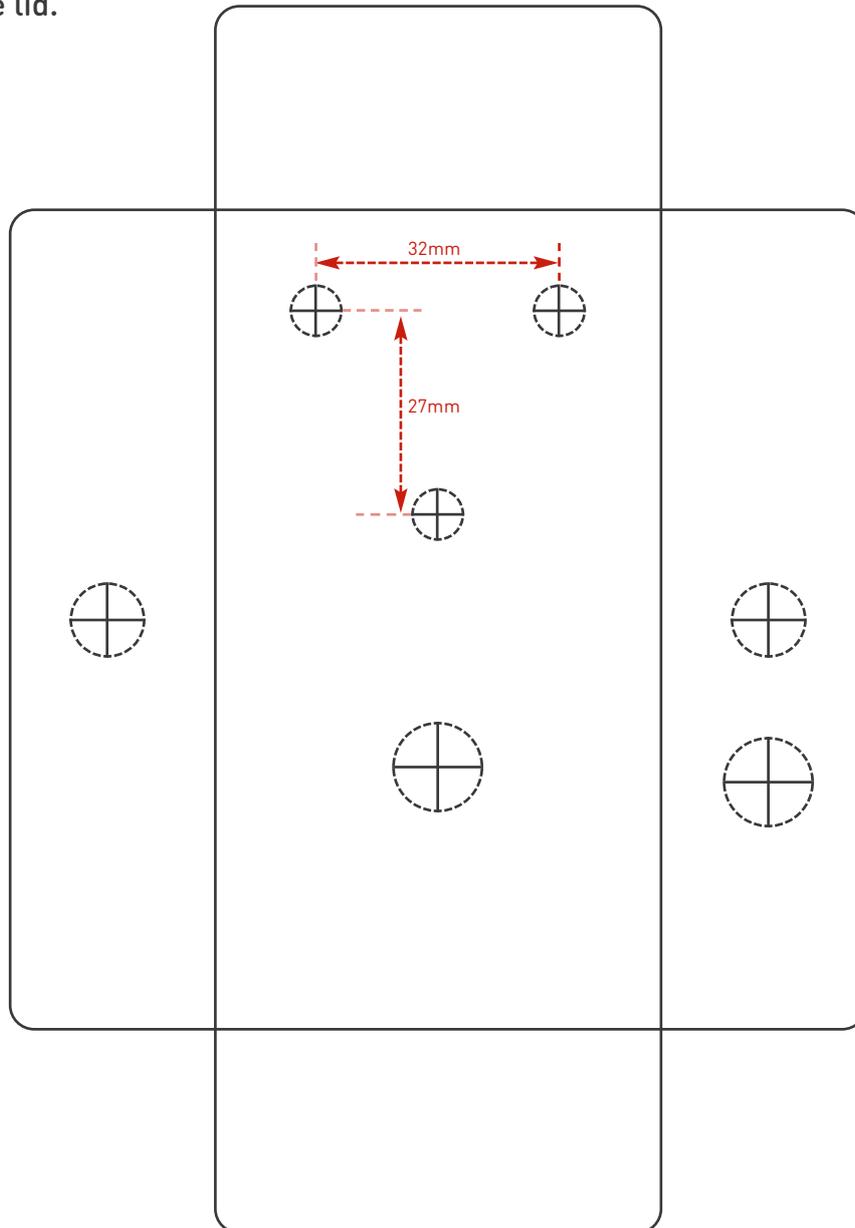
Eddystone 27134PSLA (1590B)

60 x 111 x 31mm

Note: top face of enclosure is slightly smaller as it tapers out towards the lid.

Recommended drill sizes:

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



This template is a 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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