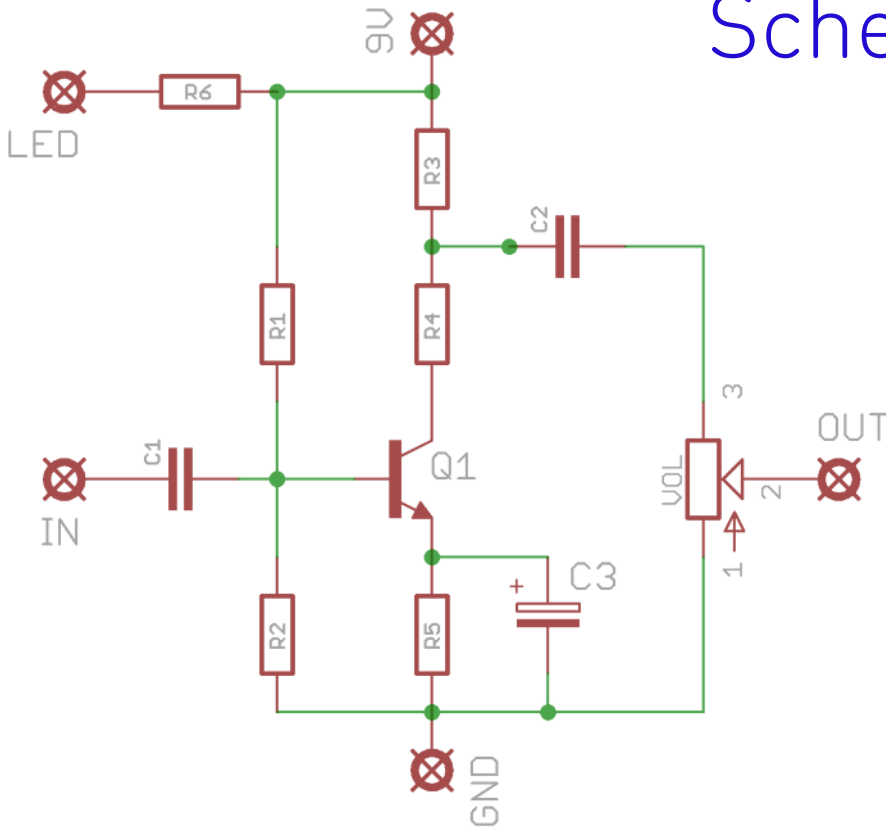


Vox Treble Boost

A treble boost -
designed by Vox :)



Schematic + BOM

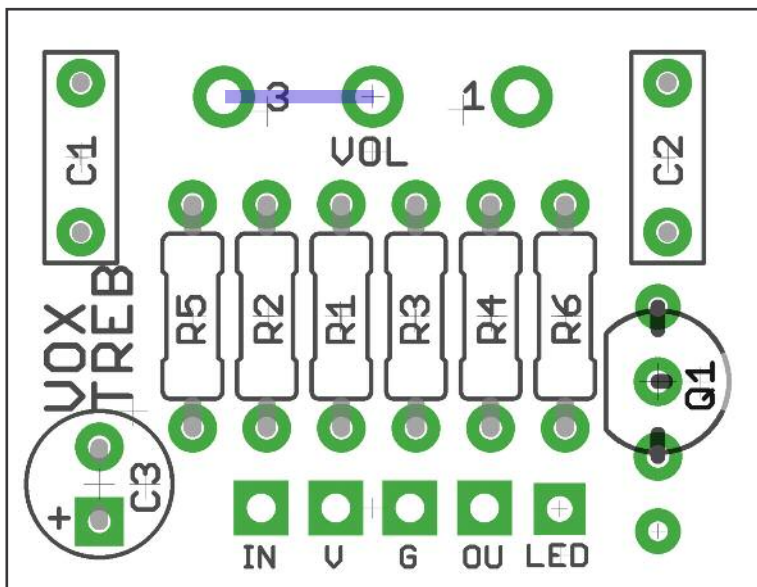


R1	100K
R2	22K
R3	2K2
R4	2K2
R5	1K
R6	2K2 (CLR)
C1	500p*
C2	100n
C3	10u elec
Q1	2N2924**
VOL	500KB***

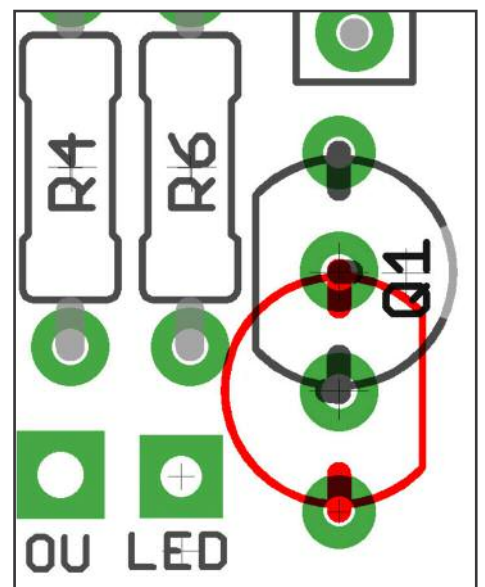
*You may want to try a slightly bigger value - the original cuts too much for our liking. 1n is better, 2n2 better still.

**The PCB has been designed to accept standard CBE-pinout transistors such as 2N3904, which should mount as per the screenprint shown for Q1. The original 2N2924 uses the extra pad and should mount as shown in red below.

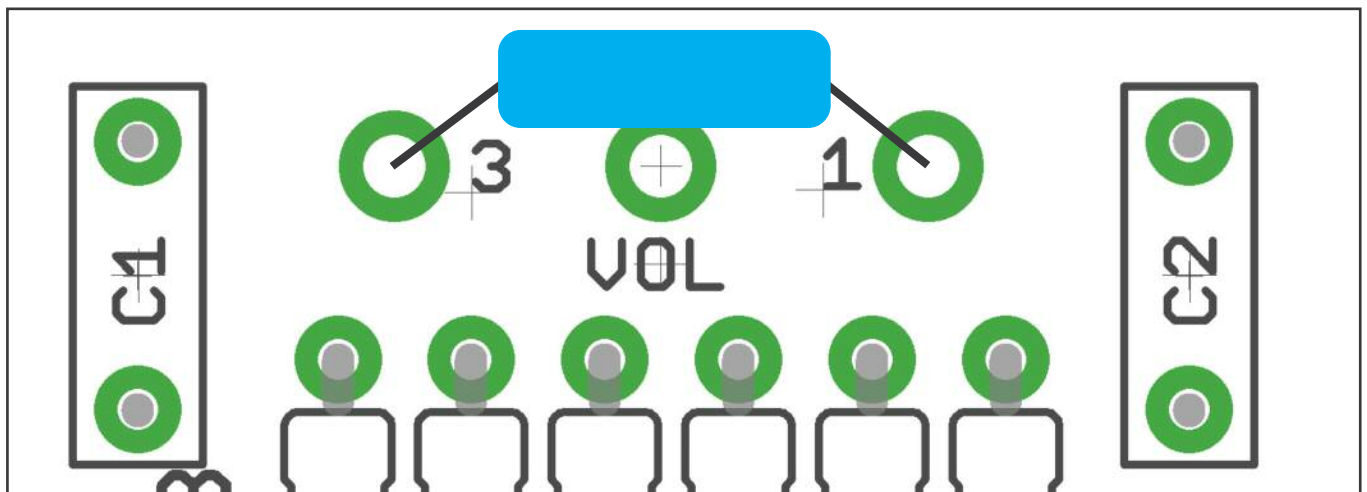
***The original circuit didn't have a volume pot. If you want to build it without one you have two options. Either place a jumper across pads 2 and 3 of VOL as shown in blue below, or place a 500K or higher resistor across pins 1 and 3 (see overleaf).



PCB Layout ©2015 Pedal Parts Ltd. All rights reserved.



Resistor in place of volume pot



General Notes

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.

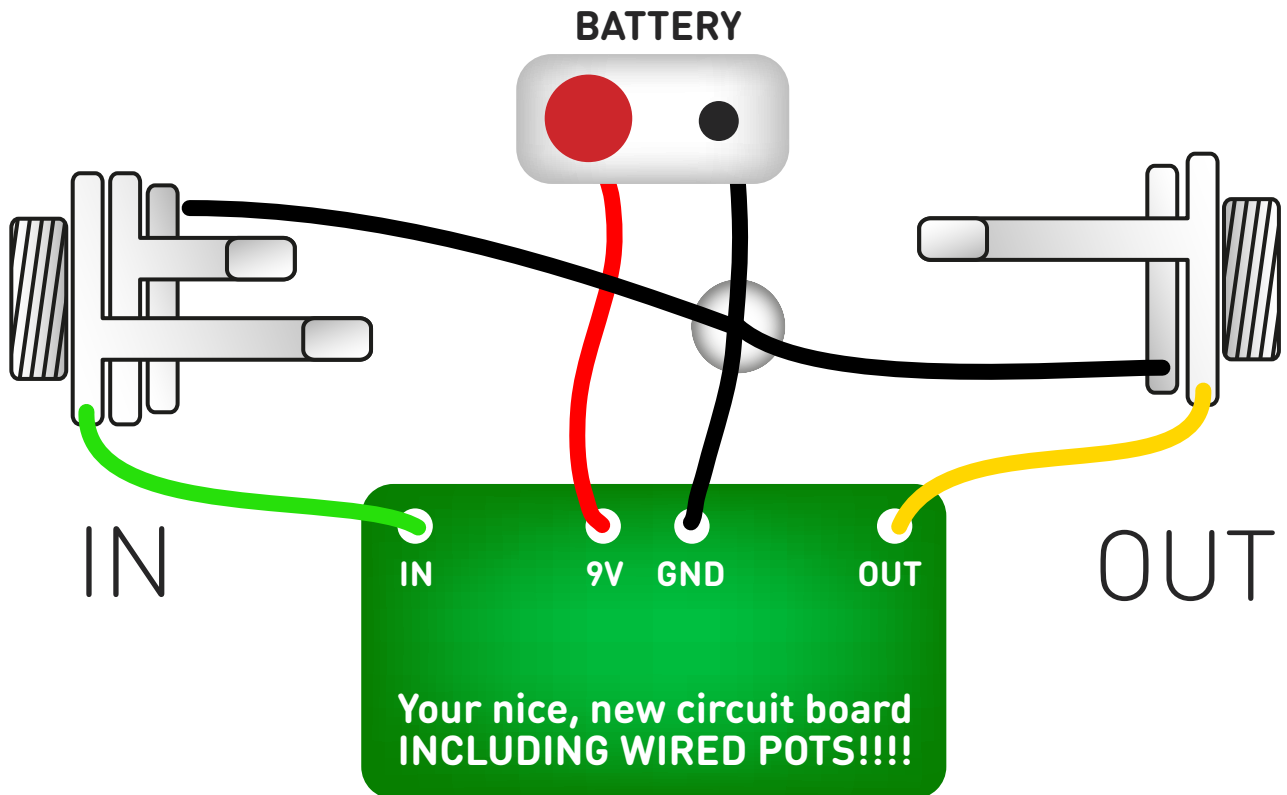
Be very careful when soldering the LED and transistor. They're very sensitive to heat. You should use some kind of heat sink (crocodile clip or reverse action tweezers) on each leg as you solder them. Keep exposure to heat to a minimum (under 2 seconds).

Snap the small metal tag off the pot so it can be mounted flush in the box.

Positive (anode) leg of the electrolytic capacitor goes into the square pad.

Pot (if using one) mounts straight into the PCB on the same side as the other components. Leave it until last or you'll restrict access to the spots for the other components.

Test the board!



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

Battery clip is supplied to test the circuit. Power supply is recommended when using the finished delay as it will EAT batteries.

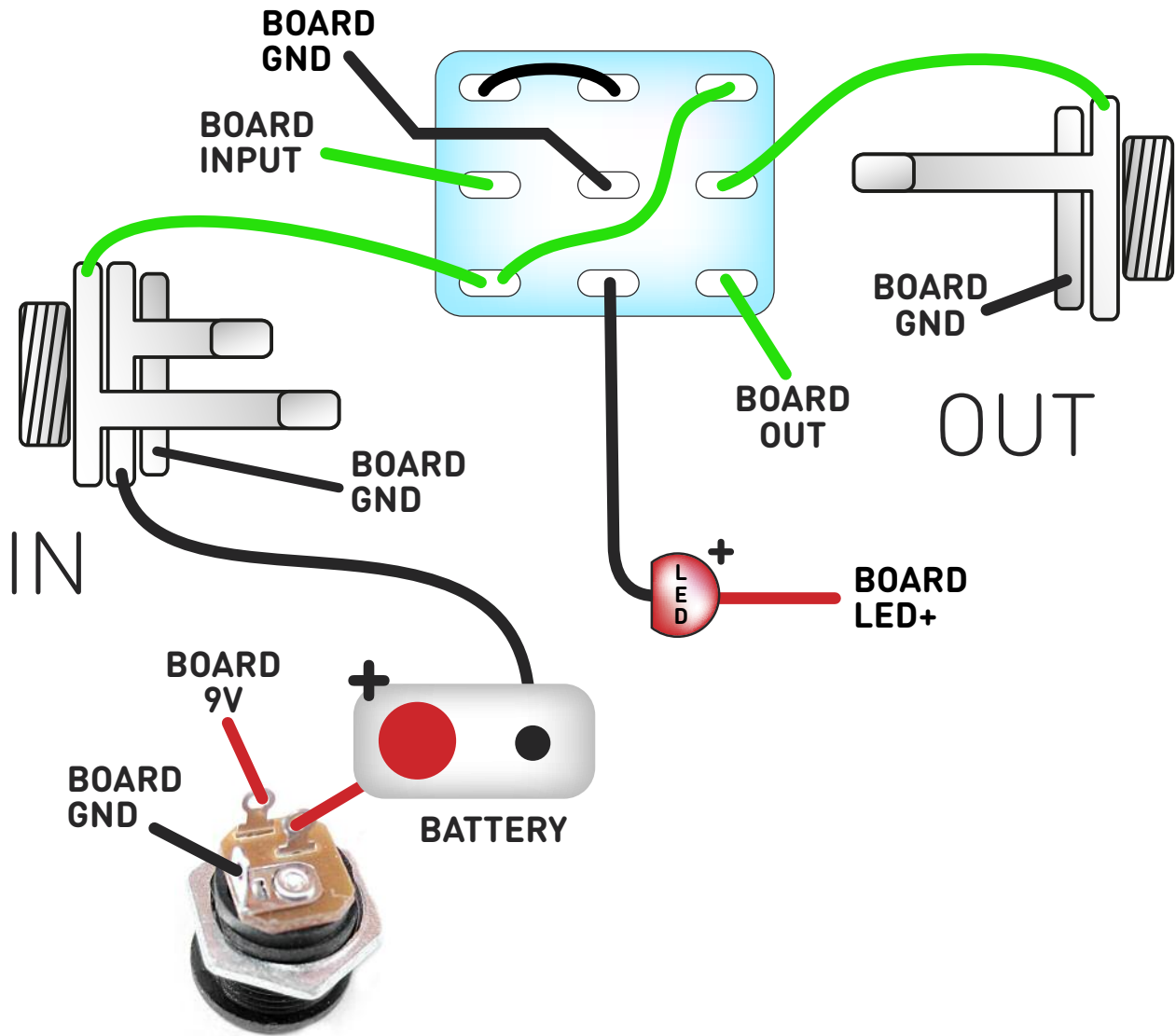
Once you've finished the circuit it makes sense to test it before starting on the switch and LED wiring. It'll cut down troubleshooting time in the long run. If the circuit works at this stage, but it doesn't once you wire up the switch - guess what? You've probably made a mistake with the switch.

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)

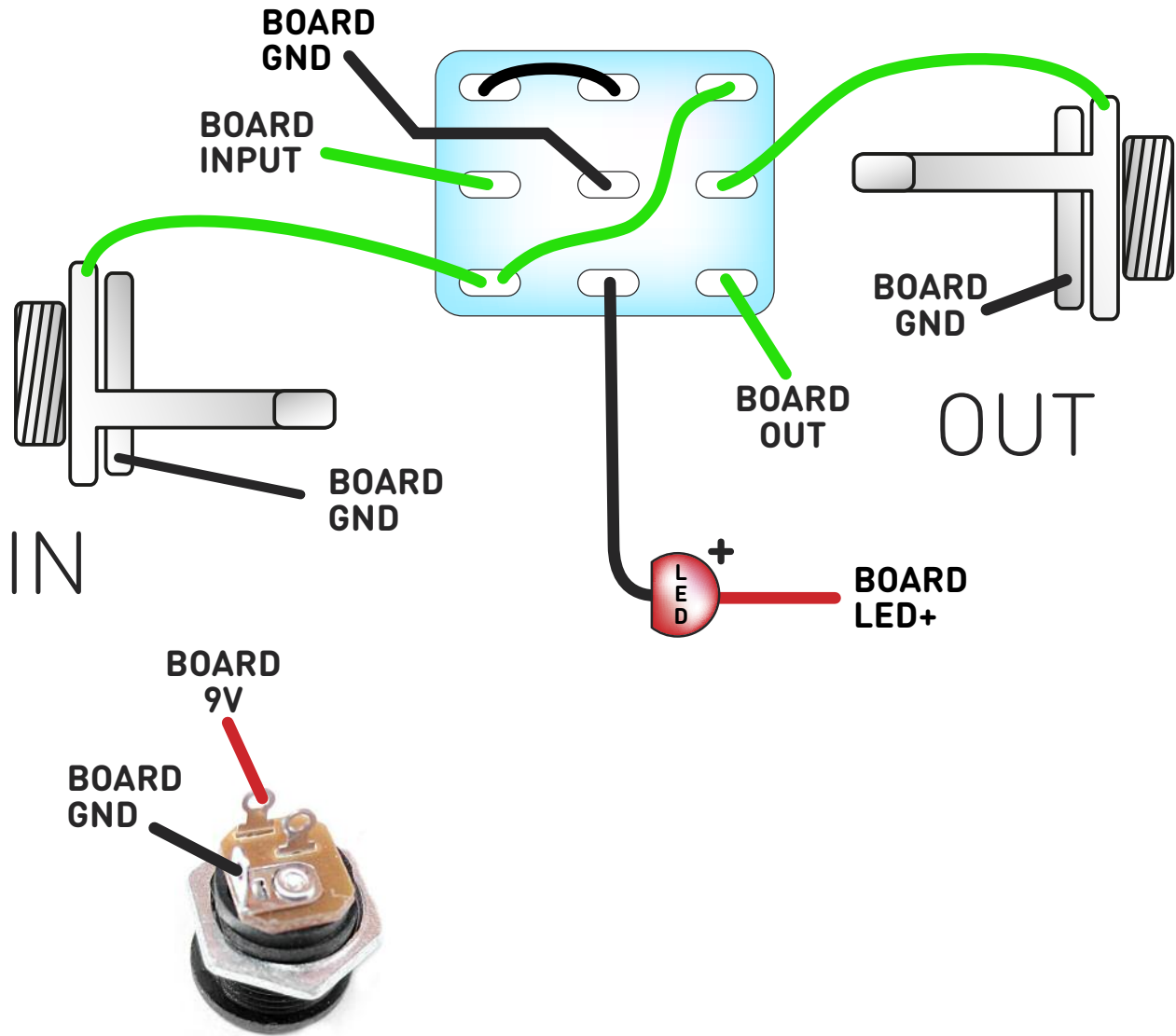


This circuit is standard, Negative GND. Your power supply should be Tip Negative / Sleeve Positive. That's the same as your standard pedals (Boss etc), and you can safely daisy-chain your supply to this pedal.

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.

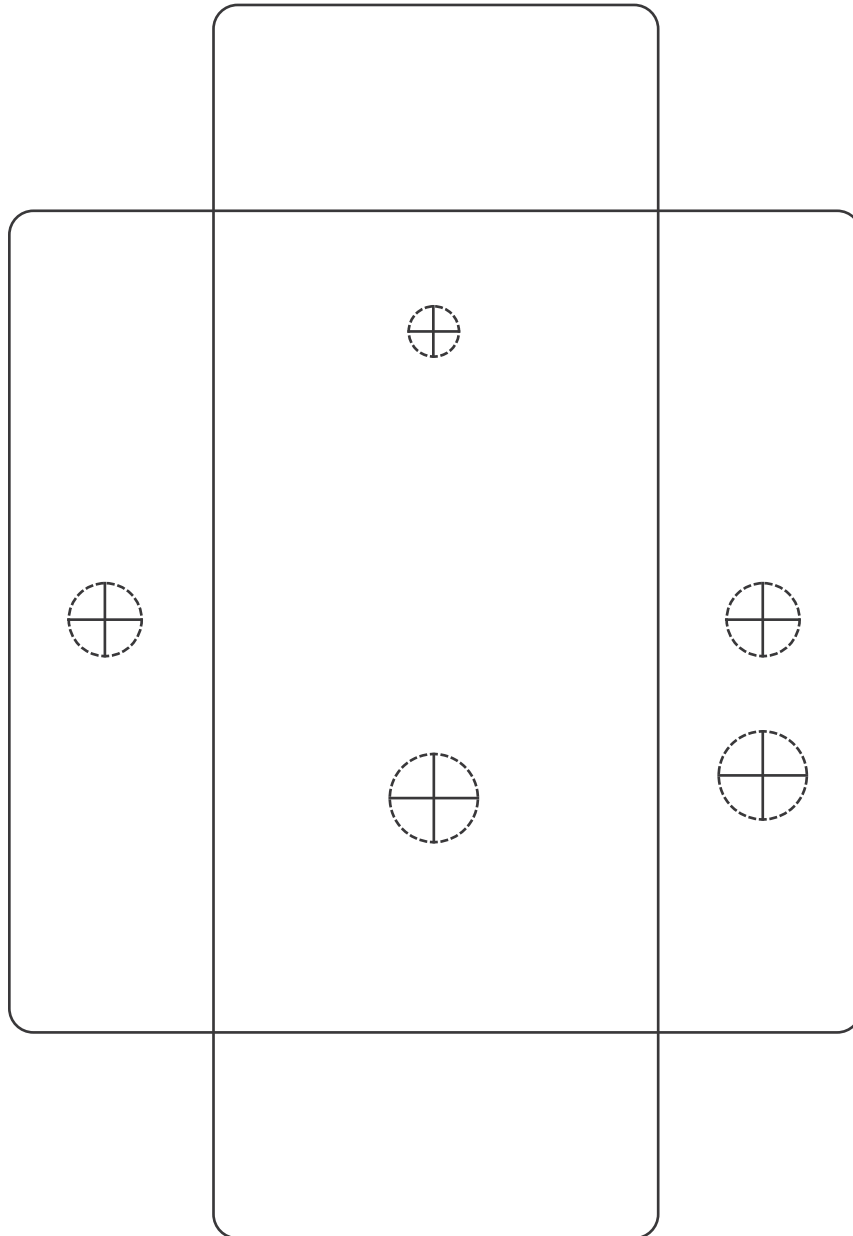
The BOARD GND connections don't all have to connect to one point. They can be daisy-chained around the circuit, using larger connection points (such as jack socket lugs) for multiple connections. As long as they all connect together in some way.

Drilling template

Hammond 1590B
60 x 111 x 31mm

Recommended drill sizes:

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



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.

PedalParts.co.uk