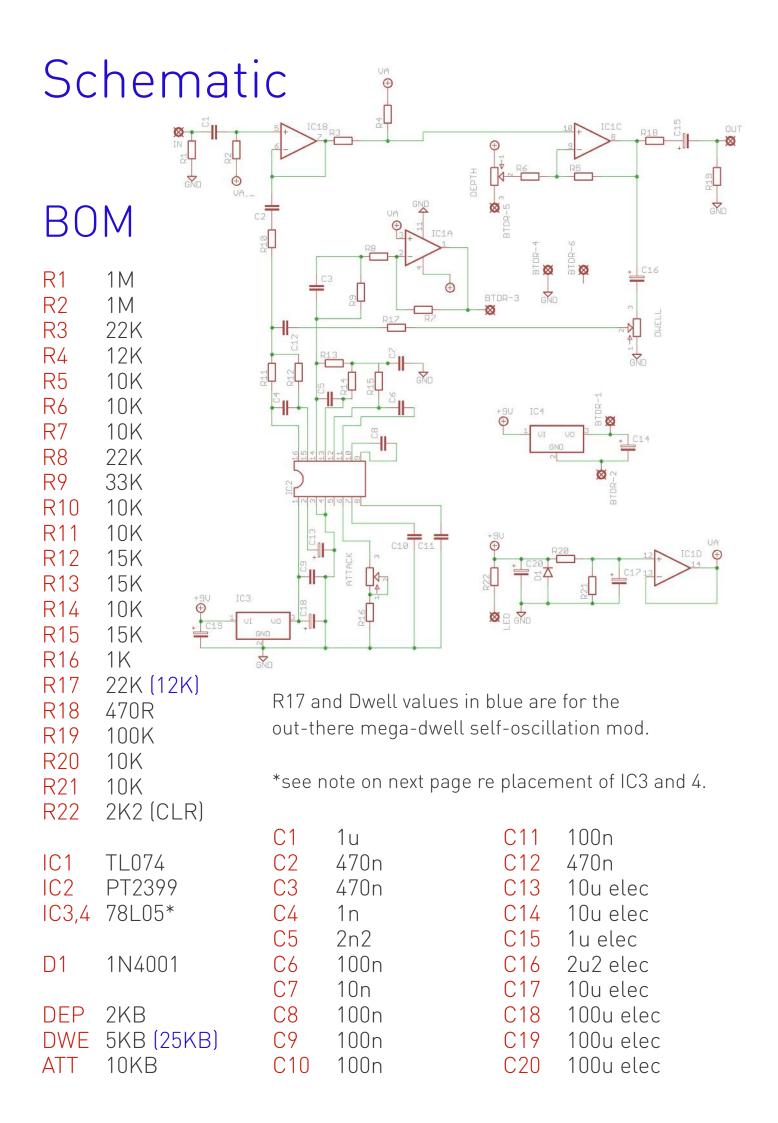


SU2K100

SpectreVerb Spring Reverb tones, from slapback to spacey ambient

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The 5V power regulators, IC3 and 4, should be placed in the opposite orientation to how they're shown on the silkscreen. The image on the first page of this document is correct.

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

Be very careful when soldering the diode, LED and regulators. 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).

The striped leg (cathode) of the diode goes into the square pad.

The long leg (anode) of the electrolytic capacitors go into the square pads. The large 100u capacitors should lay flat over the other components as shown in the image on the first page. This will give you plenty of clearance in the enclosure.

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. It's a good idea to place the pots in their holes in the enclosure when you're soldering them in place on the PCB. That way you know they're going to line up ok. Best way to do it is to solder a single pin of each pot in place, then do a visual check to see that they're all sitting at the same height. If not, melt the joints and readjust any that are off.

If your pots have protective plastic covers you should remove them, as there won't be space for them to sit side by side on the board. You'll have to keep a decent gap between the pots and the underside of the board. Place a strip of thick card between them and the board when soldering to keep them even.

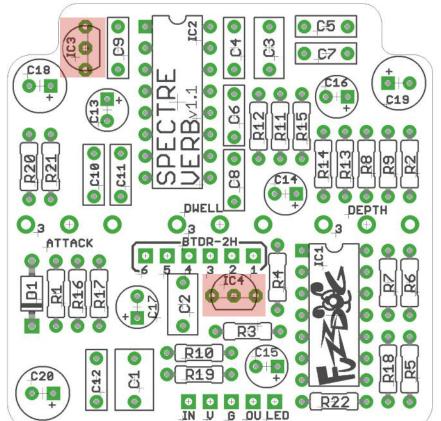
You should solder all other board-mounted components before you solder the pots. Once they're in place you'll have no access to much of the underside of the board. Solder the BTDR-2H brick last. Make sure it's quite close to the board or it will stop the pots sitting tight to the enclosure.

Pots should be placed as shown >>>

Swapping out the parts for the DWELL mod will change that control from subtle to extreme, with self-oscillations at the far right of the turn. Worth doing.

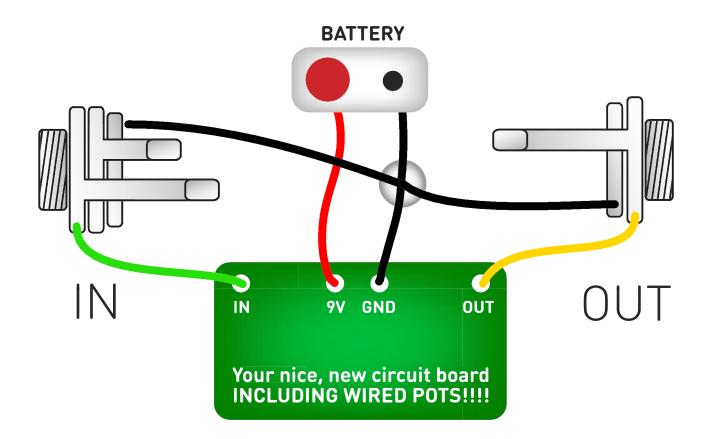








Test the board!



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

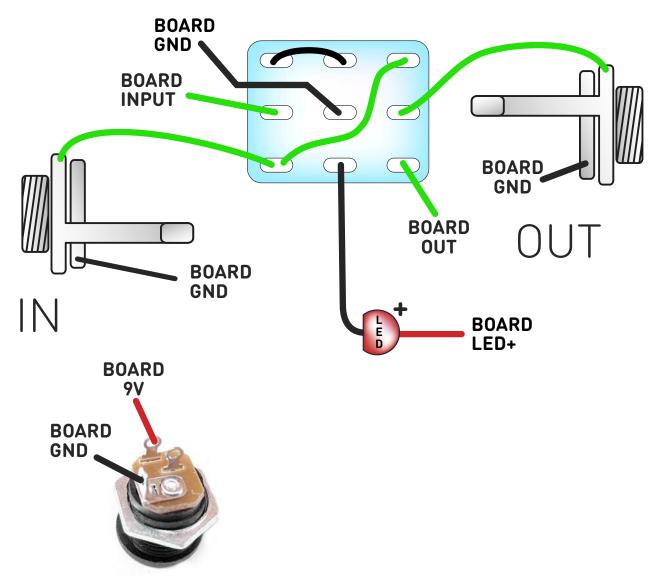
Once you've finished the circuit it makes sense to test is before starting on the switch and LED wiring. It'll cut down troubleshooting time in the long run. If the circuit works at this stage, but it doesn't once you wire up the switch - guess what? You've probably made a mistake with the switch.

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 - DC only version

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

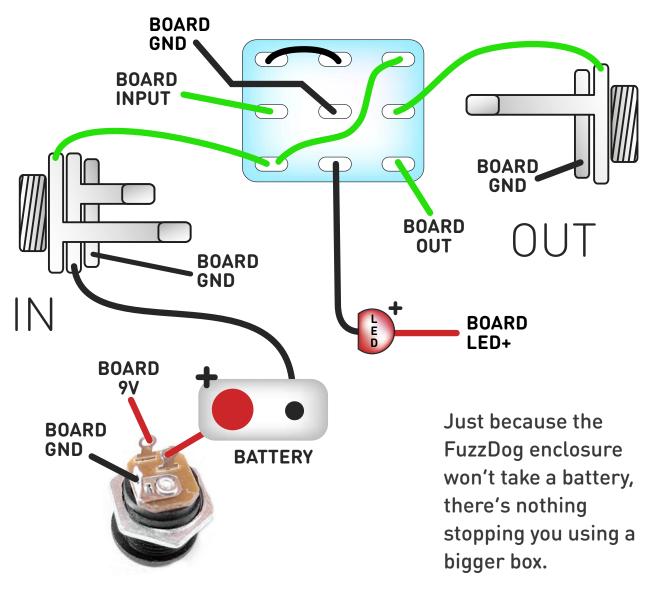


This circuit is standard, Negative GND. Your power supply should be Tip Negative / Sleeve Positive. That's the same as your standard pedals (Boss etc), and you can safely daisy-chain your supply to this pedal.

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.

Wire it up - with battery

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



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Drilling template

Recommended drill sizes: Hammond 1590B Pots 7mm 60 x 111 x 31mm 10mm Jacks 12mm Footswitch DC Socket 12mm It's a good idea to drill the holes for the pots 8mm to give yourself some wiggle room unless you're a drill ninja 35mm 17.5mm

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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It's tight in there, but it does fit!

