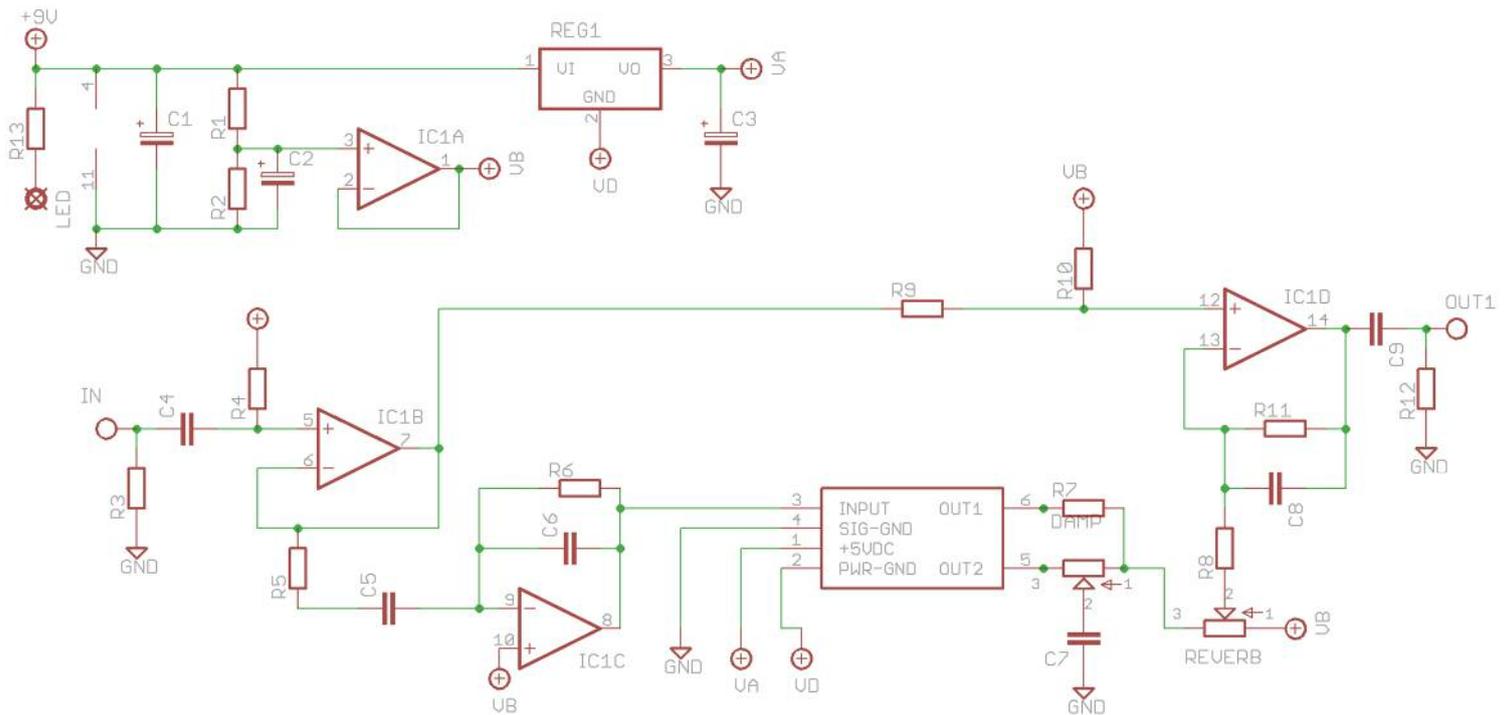


# The VERB

Box of Hall Reverb

[PedalParts.co.uk](http://PedalParts.co.uk)

# Schematic

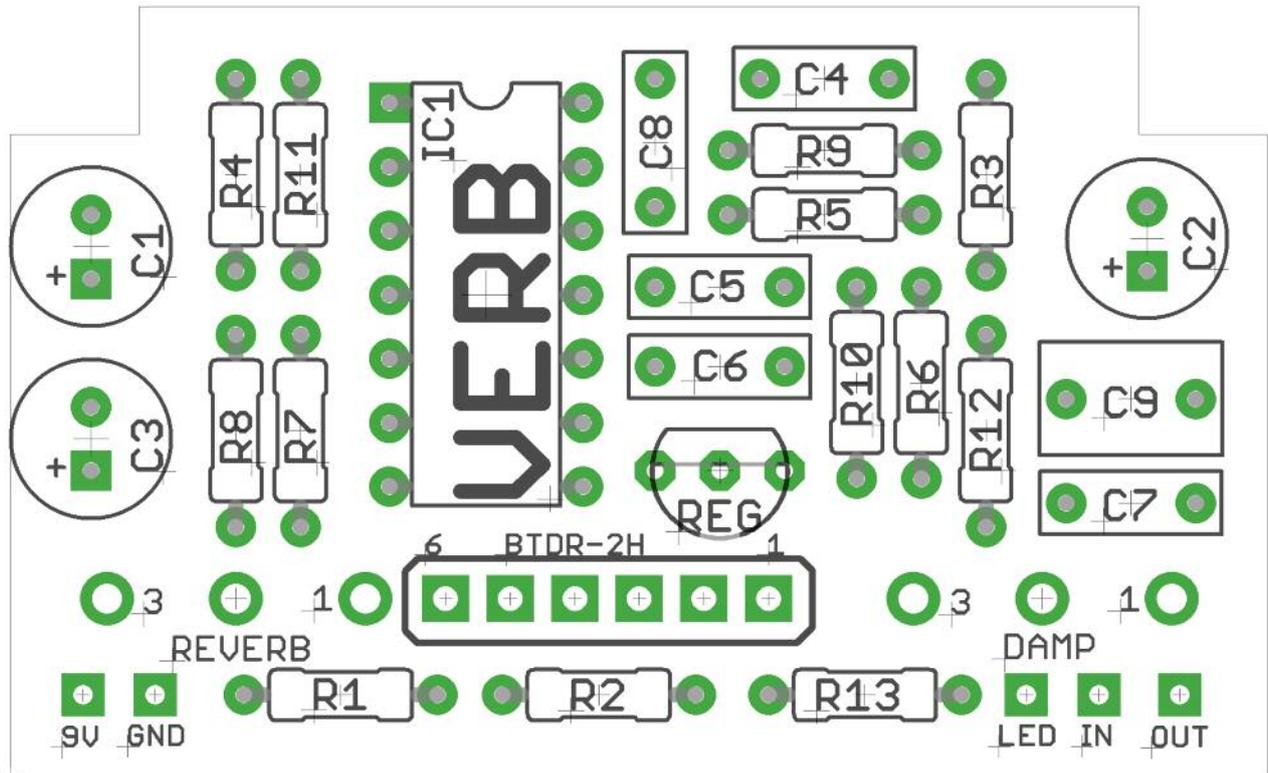


# BOM

R1	10K	C1	100u elec	IC1	TL074
R2	10K	C2	47u elec	IC2	BTDR-2
R3	2M2	C3	100u elec		
R4	1M	C4	100n	REG1	78L05*
R5	10K	C5	22n		
R6	22K	C6	100p (470p)	REVERB	20KB
R7	10K	C7	22n (33n)	DAMP	10KB
R8	10K	C8	1n (4n7)		
R9	10K	C9	1u		
R10	33K				
R11	10K (33K)				
R12	33K				
R13	2K2 (CLR)				

Component values are based on the "HeavenWithin" mods at tagboardeffects. Culturejam's original values in blue.

\*See note overleaf.



**\*VOLTAGE REGULATOR:**

Pinout on the board is for a LM7805. If using a LM78L05 (which is supplied with the kit) then it should be oriented opposite to the part shown, i.e. flat side should face the BTDR-2 pads.

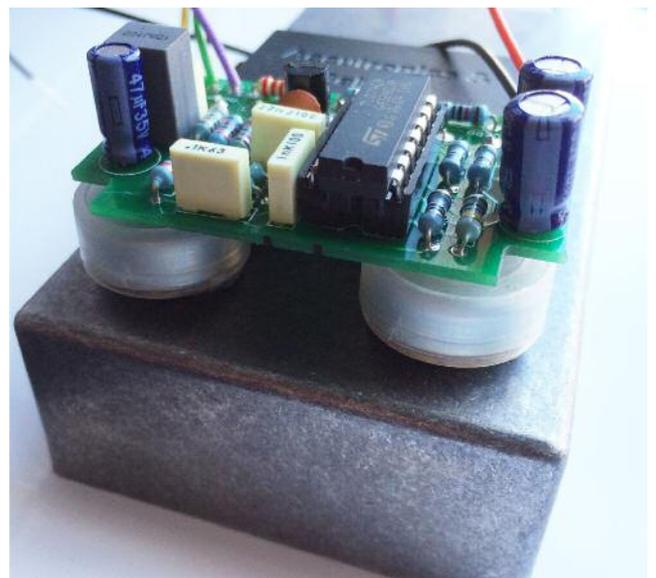
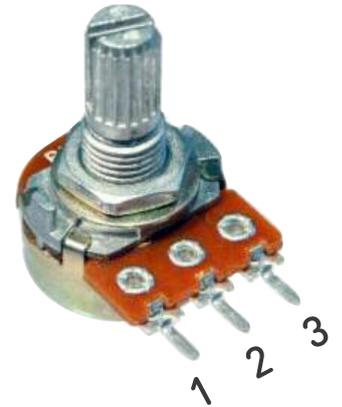
Use a heat sink when soldering the voltage regulator and the BTDR. Use sockets for the IC unless you're a soldering wizard.

Snap the metal tags off the pots to mount them flush.

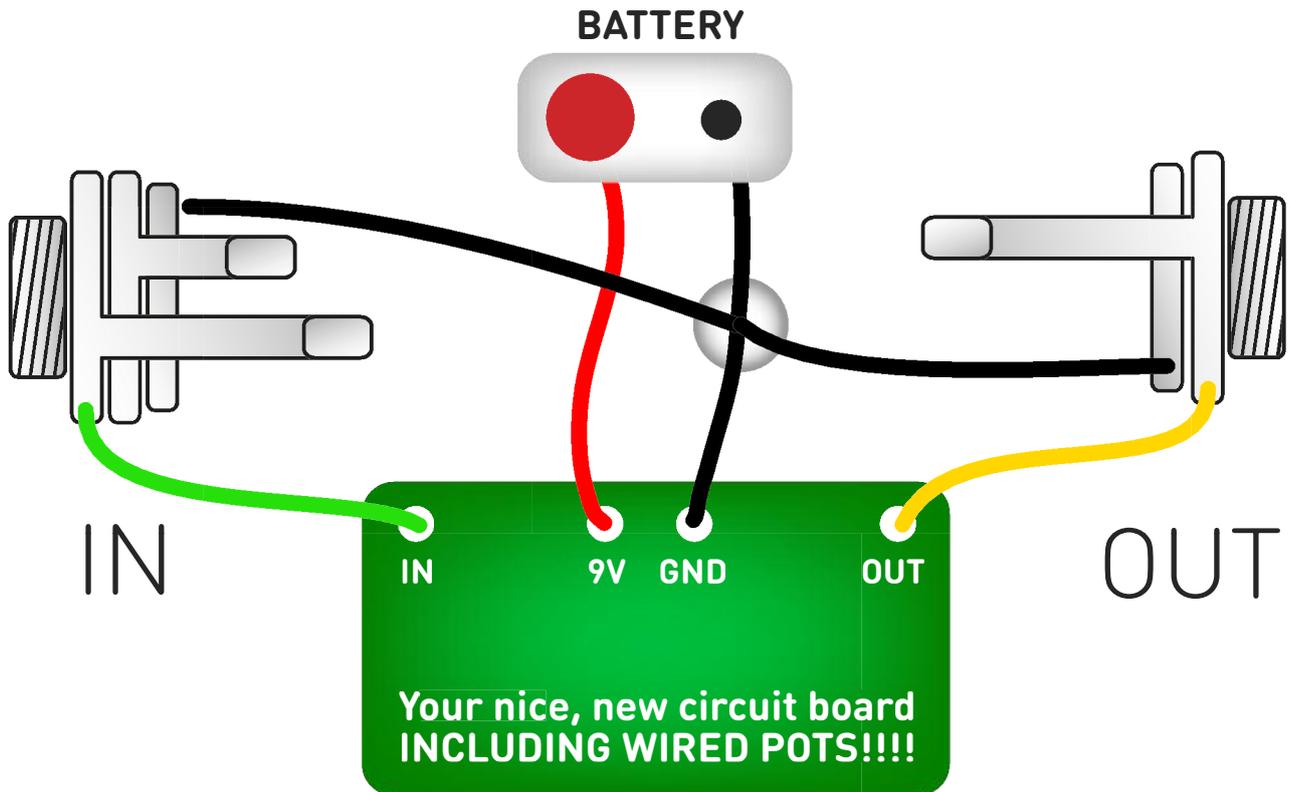
Make sure your soldering on R1, R2 and R13 is spot-on (actually, it all should be). Once the brick is soldered in place you have no access to those solder pads.

The pots and brick mount on the underside of the PCB.

If you're using header pins or snipped component legs to mount the pots, it helps if you solder in the brick first, then place your pots in the holes of the enclosure as shown to get the right height for them.



# Test the board!



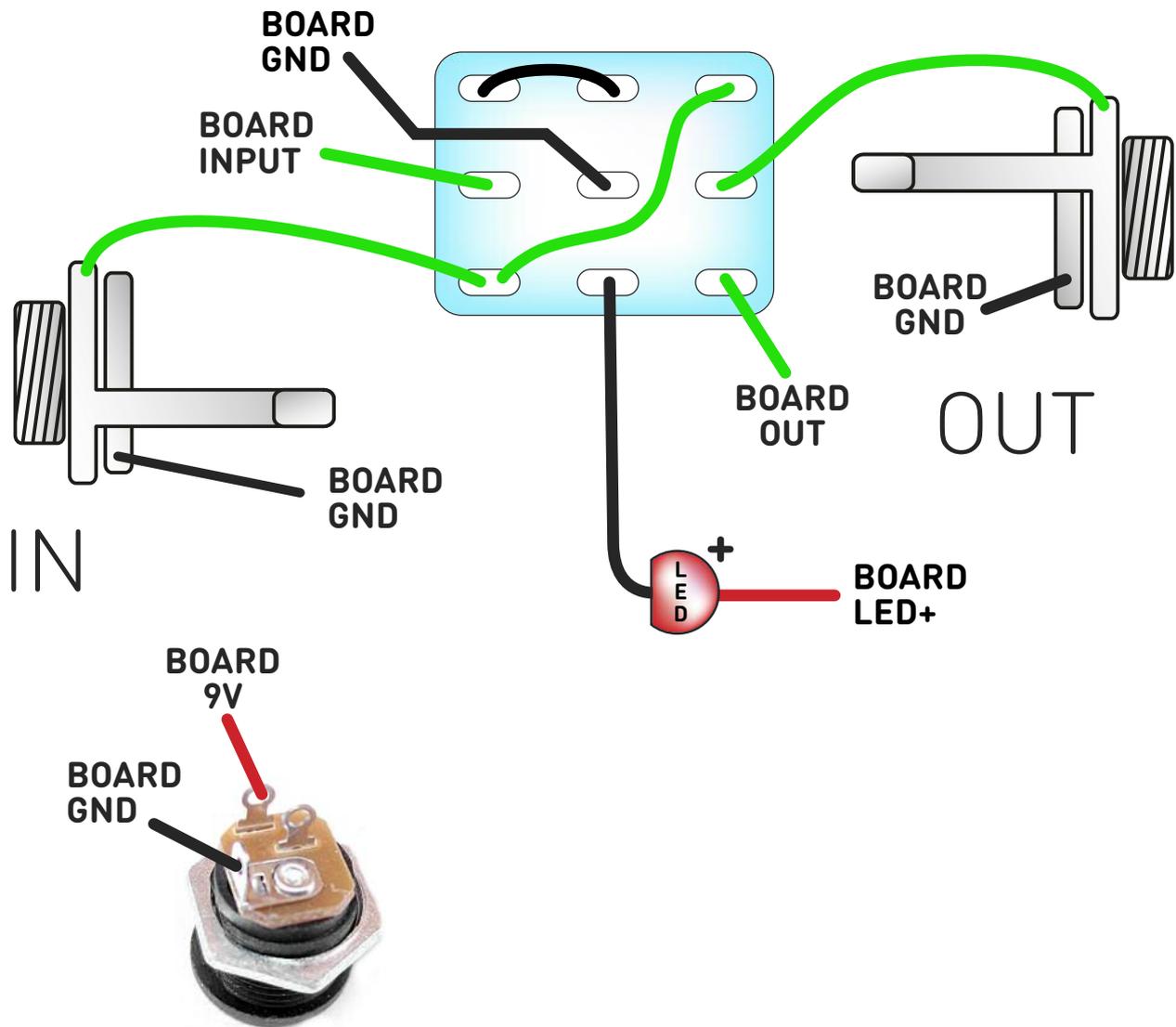
Battery clip is supplied to test the circuit. Power supply is recommended when using the finished reverb as it will EAT batteries.

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



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.

Now... SPLASHHHHH

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