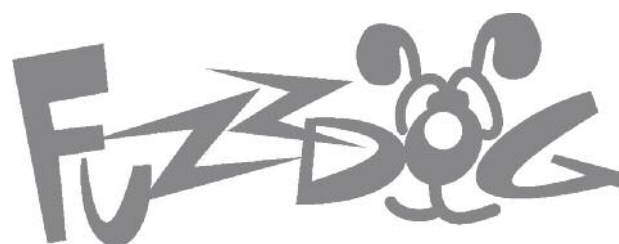


Double-Down Boner Boost/Overdrive

Dual Boner-Boost Assault!



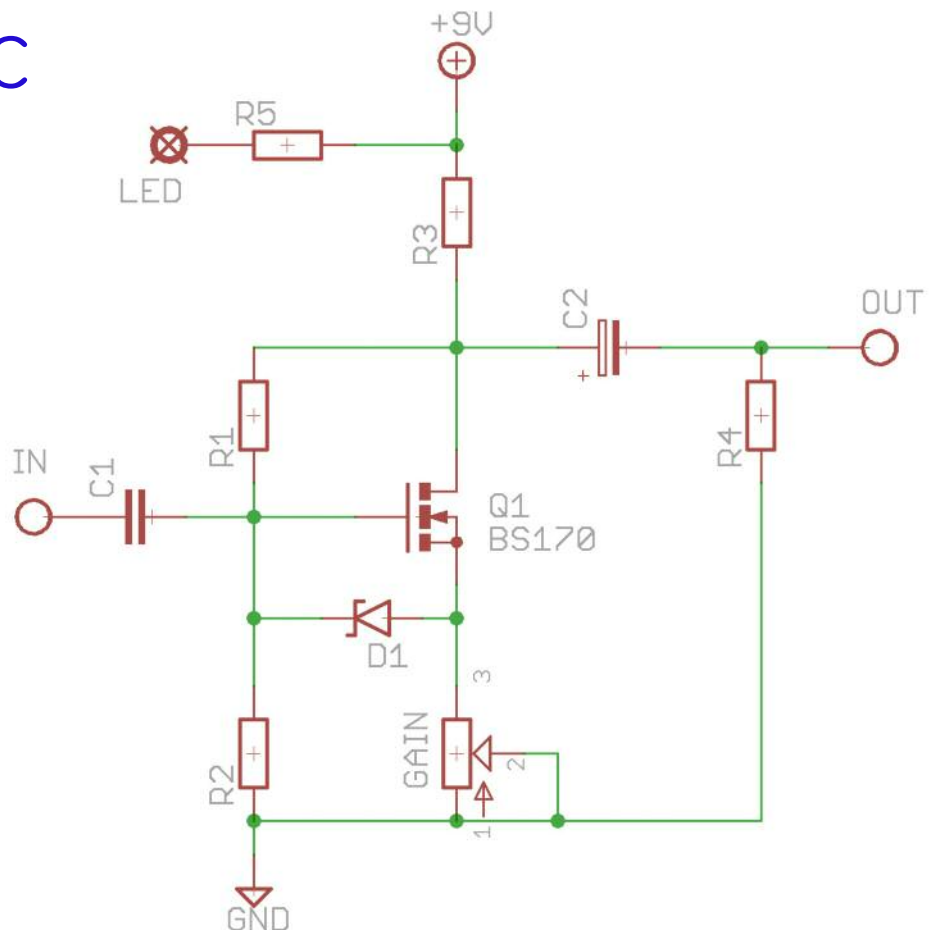
Schematic

(single boost shown)

BOM

R1,2	10M
R3	5K1
R4	100K
R5	2K2 (CLR)
C1	100n
C2	10u
D1	9.1v zener
Q1	BS170
GAIN	5KC

In the second circuit you'll use a 100KA pot instead of R4

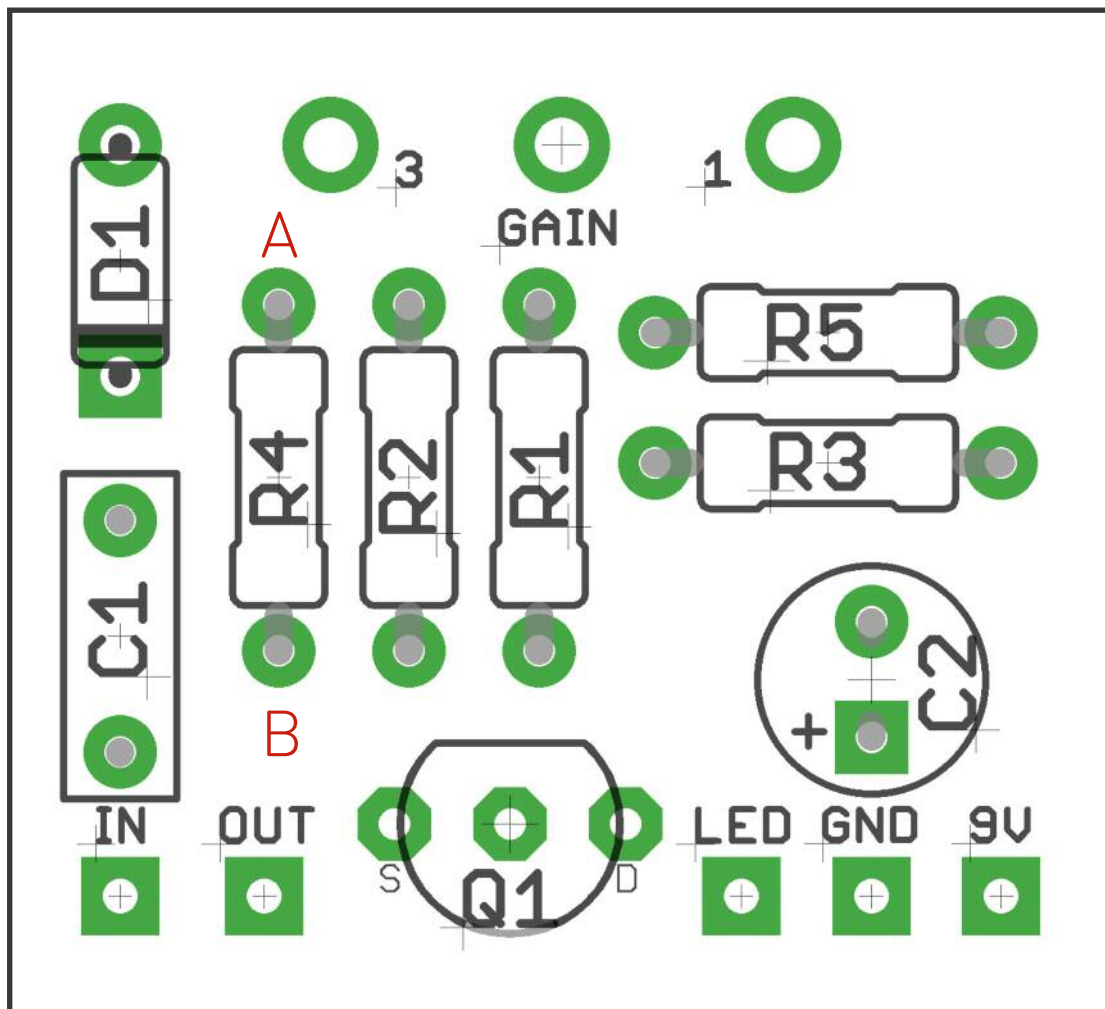


Basically the Double-Down is two Boner Boosts in one box. You can have one, t'other or both engaged.

BB1 is wired as normal, BB2 is wired with a Master Volume.

The circuits will produce an audible 'crackle' when their knobs are turned. That's ok. The BS170s are rebiasing.

Please, please turn it right down when you first plug it in. This babe is capable of some HOT signal output and can easily blow your amp if not used with caution. ALWAYS turn the master volume right down before turning up the gain on each circuit.



Assemble BB1 as normal, but on BB2 replace R4 with a 100KA pot - this is the master volume. Connect pin 1 to A, pin 3 to B. Pin 2 connects to the second footswitch as shown overleaf.

The PCB is designed to have the 'Crackle' pot mounted directly. You can use wire if you like - simply connect the board pads to the corresponding pins on the pot.

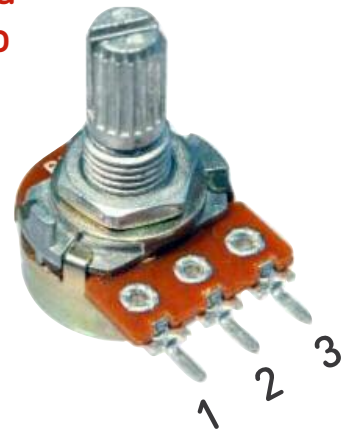
At full crank this circuit puts out a LOT of signal, so always start off with the 'crackle' turned right back.

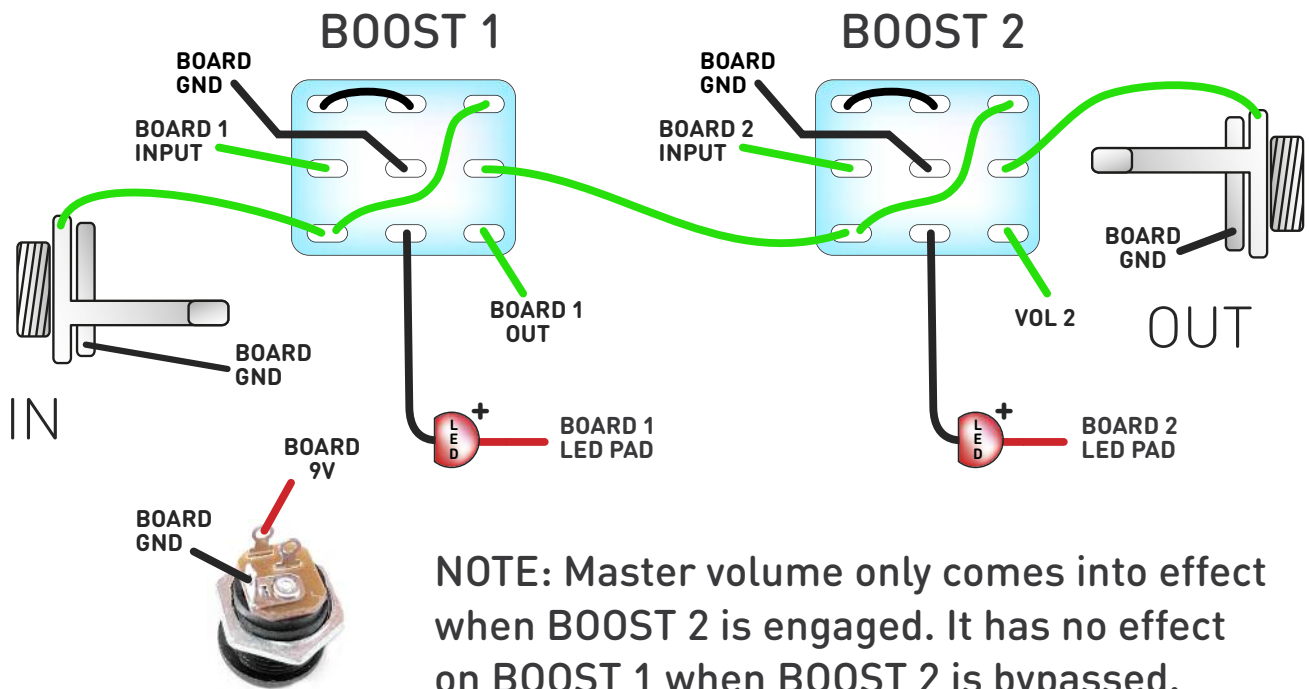
Wiring shown overleaf will disconnect the battery when you remove the jack plug from the input, and also when a DC plug is inserted.

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

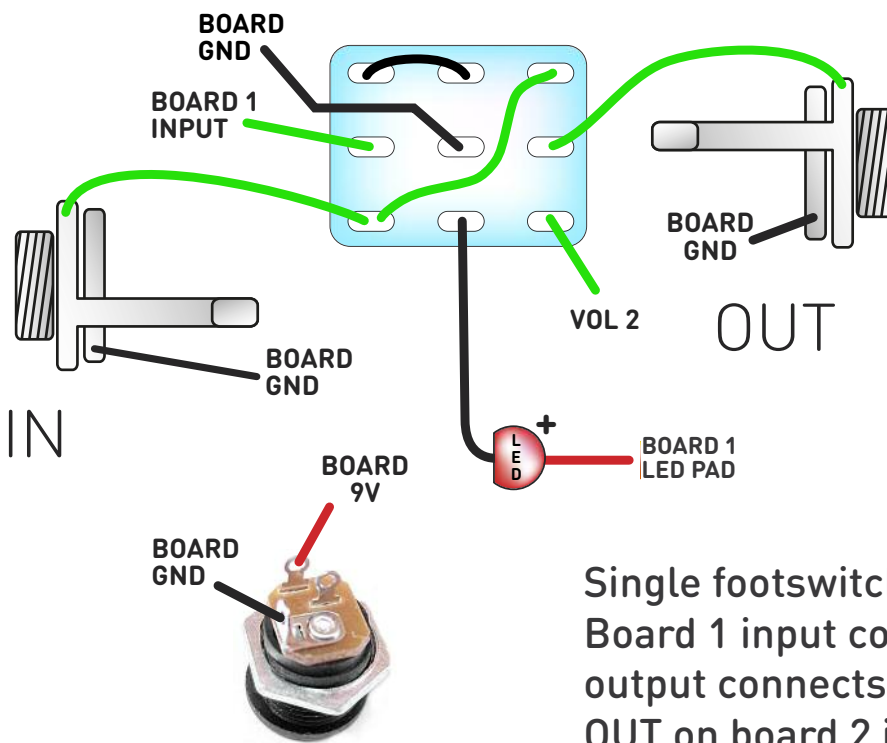
You MUST use some kind of heat sink on the legs of the diodes and the BC170 when soldering. They aren't keen on heat. Any more than 3-4 seconds of iron and they're toast.

Striped leg of diode (cathode) goes to square pad. Long leg of C2 (anode) to square pad.





NOTE: Master volume only comes into effect when BOOST 2 is engaged. It has no effect on BOOST 1 when BOOST 2 is bypassed. OUT on board 2 is not connected to anything.



Single footswitch version:
Board 1 input connects to switch, Board 1 output connects directly to Board 2 input. OUT on board 2 is not connected to anything.

All points marked BOARD GND need to connect together. Ditto BOARD 9V.

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.