

A-B Switcher

Unbelievably simple and
handy utility switcher



This really is as simple as it gets, so there's no schematic to ponder over, or large bills of material to wrestle with.

Simply solder in your choice of LED current limiting resistor (2K2 is supplied with the kit) into R1 and R2. These go vertically on the same side of the board as the footswitch.

Pull your LEDs through the board from the footswitch side, and slightly bend the legs to stop them falling back through, or use a piece of blu-tac.

Get all your hardware placed in your enclosure and tightened up.

It's easier to solder all your jack wires to the PCB before you mount it to the footswitch, so do that now. Give yourself plenty of length to play with.

Now place the PCB onto the footswitch. Solder one of the tags and make sure you have the board flat to the switch. If not, melt the joint and push the board down. Once nicely flat solder the other 8 pads.

Free your LEDs from their bent-leg (or blu-tac) shackles and push them down into the holes in the enclosure. Solder in place, making sure you don't cook them. Use a heat sink (crocodile clip, self-closing tweezers) on the leg you're soldering, and don't hold the iron on there for more than a couple of seconds.

Now attach all your wires as shown overleaf. You're done.

Things to note:

Make sure you get the orientation of the footswitch correct - lugs should be horizontal as shown >>>>

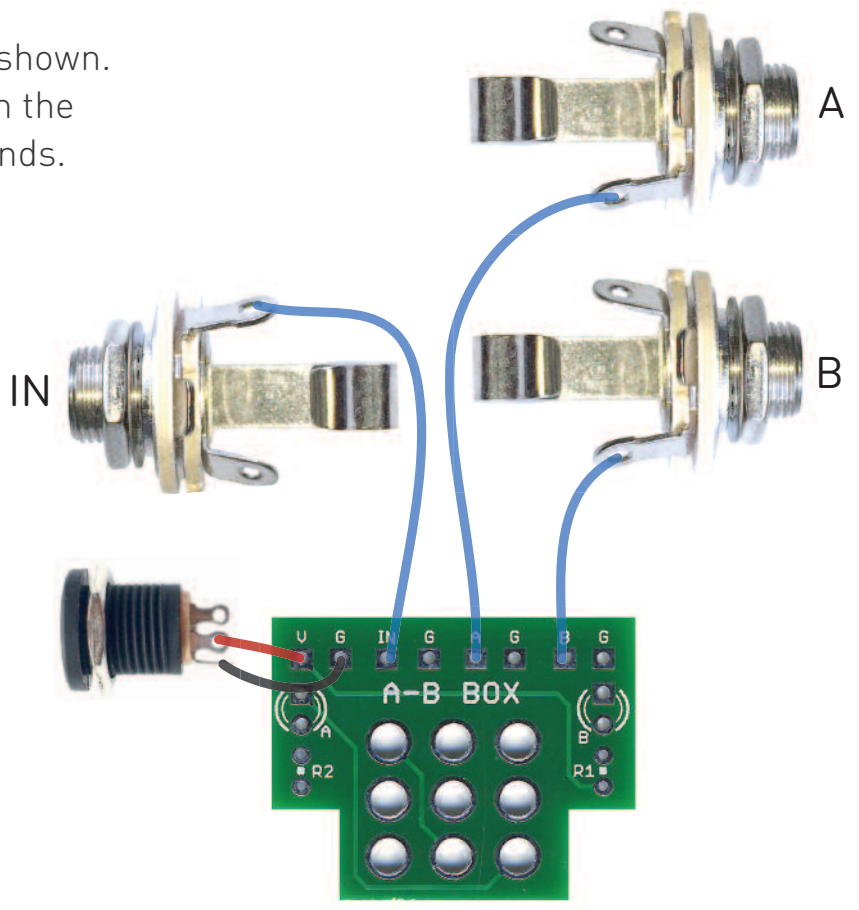
LEDs - long (+) leg to round pad.

If you have a small DC socket with only two prongs, the long one is the +



Power and signal connections shown. It starts to get a bit cluttered on the drawing once you add the grounds.

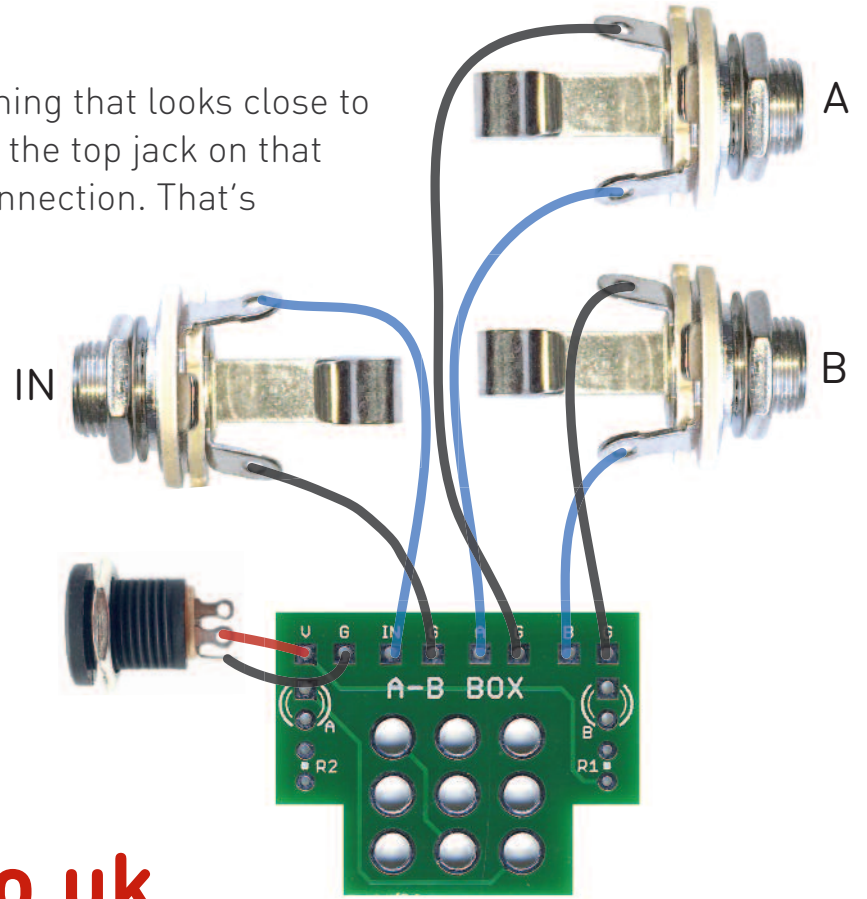
You may need to bend out the lugs on the jacks so they don't catch on the others. Don't be scared. Push a jack plug into each socket and see if it gets close to another jack socket's lugs. If so, tweak. See the pic on the last page. The GND lug on the jack nearest the bottom has been bent right back.

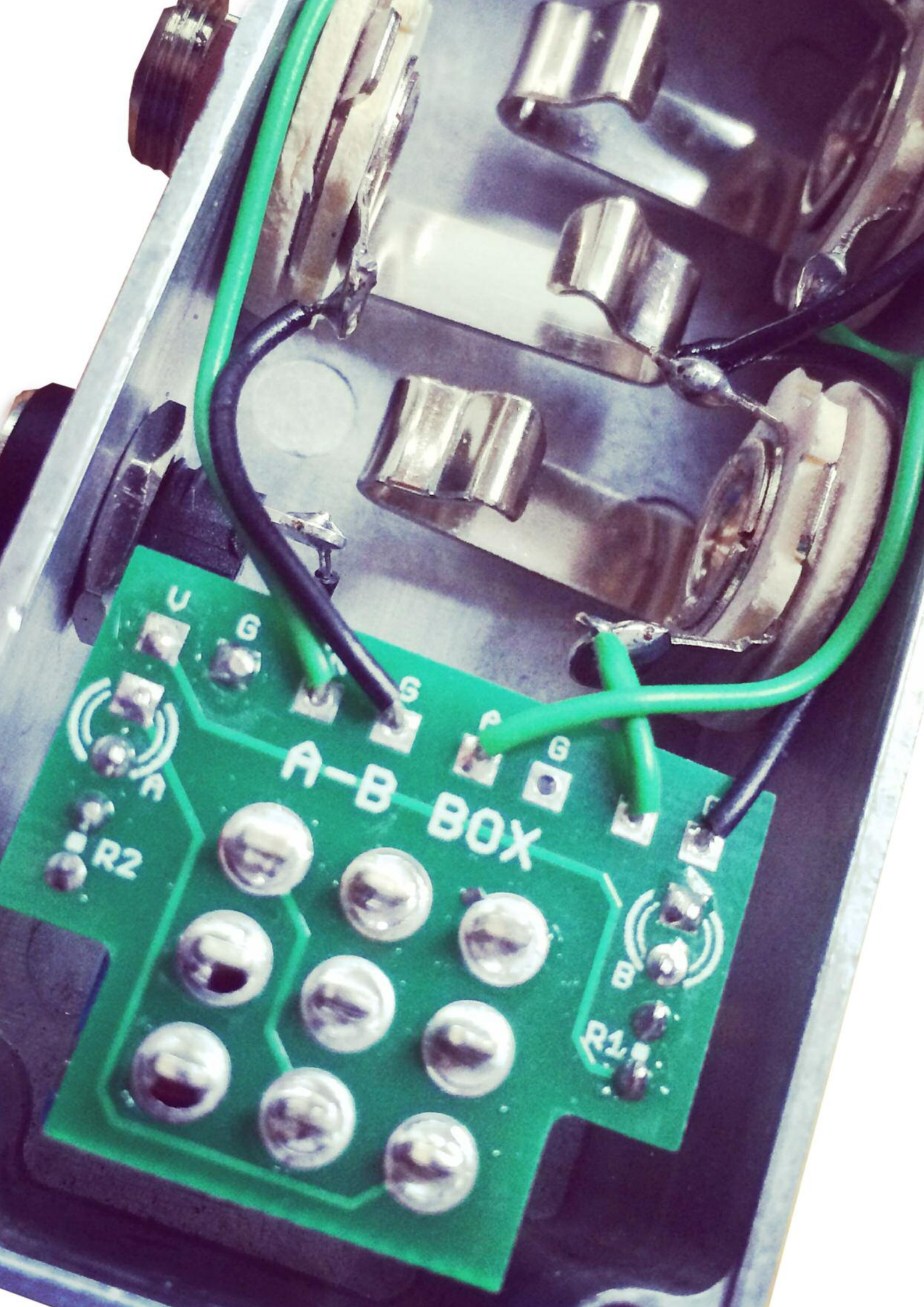


Told you it got messy!

Any of the G connections can be used for any of the grounds on the jacks. They're all connected together on the PCB anyway.

You should end up with something that looks close to the pic on the next page. Note, the top jack on that picture doesn't have a GND connection. That's because all the jacks are grounded through their connection with the bare metal enclosure. This won't work on painted enclosures, and it's good practice to wire in a ground connection in all cases. One was added to that jack after the picture was taken, honest!





U

G

S

P

G

A-B BOX

R2

R1

