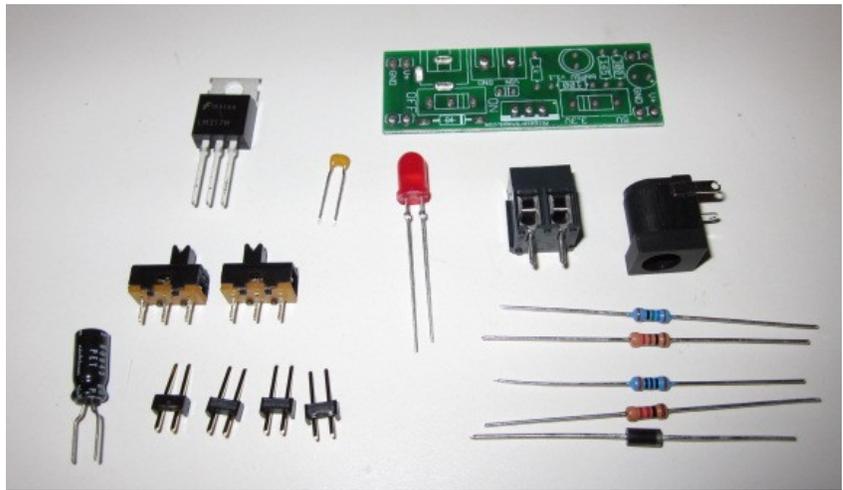


Breadboard PSU v1.1 Assembly instructions

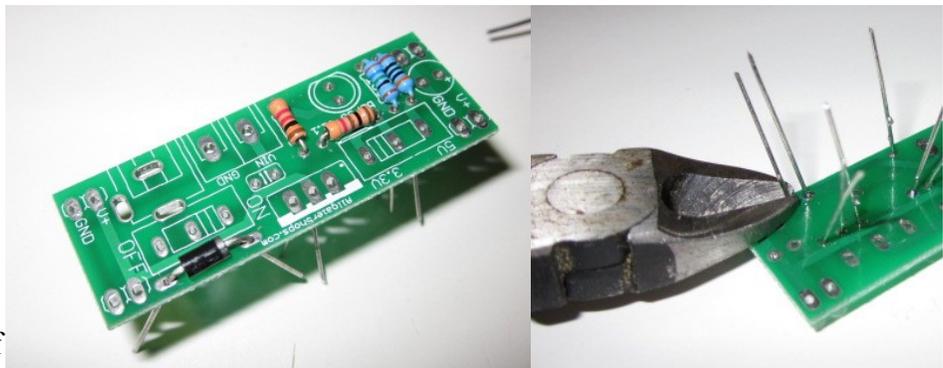
Parts list:

LM317 Linear regulator
0.1 uF film capacitor
Power LED
Terminal block
DC power jack
2x DPDT switches
4x 1x2 pin headers
1uF electrolytic capacitor
Printed Circuit Board
100 Ohm resistor
300 Ohm resistor
1 kOhm resistor
165 Ohm resistor
Reverse voltage protection diode



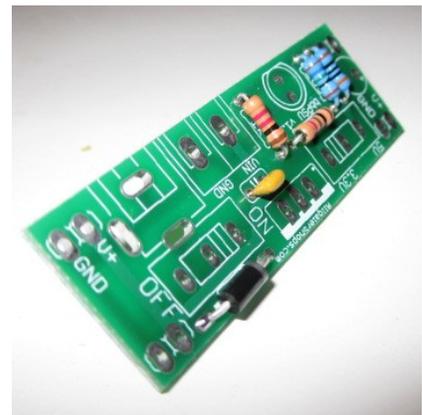
Step 1:

Insert the low-profile components into the board first: the resistors and the diode. The markings on the board will tell you which goes where. Flip the board over and solder these components in, then snip off the excess leads with a pair of diagonal cutters.



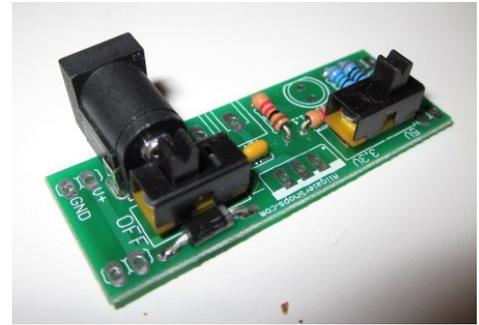
Step 2:

Do the same thing with the 0.1uF capacitor as you did with the resistors and diode: Insert, solder, snip.



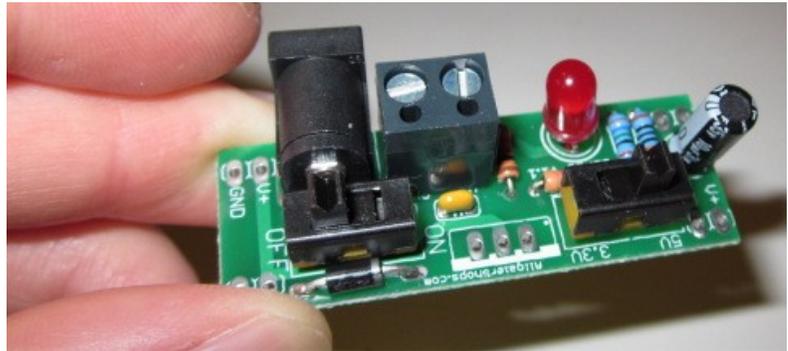
Step 3:

The switches and DC power jack come next. Note that the switches will not sit flush on the surface of the board. Enough of the lead will protrude through the PCB, so you can solder them on. No snipping is necessary on these parts.



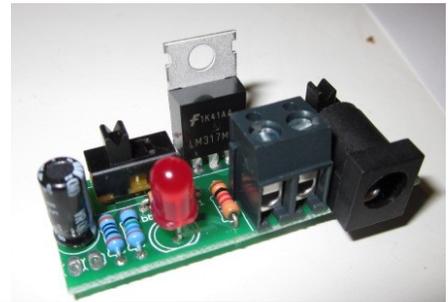
Step 4:

The LED, electrolytic capacitor, and terminals are next. Like the switches, the LED will not sit flush on the board. Insert, solder, and snip as before.



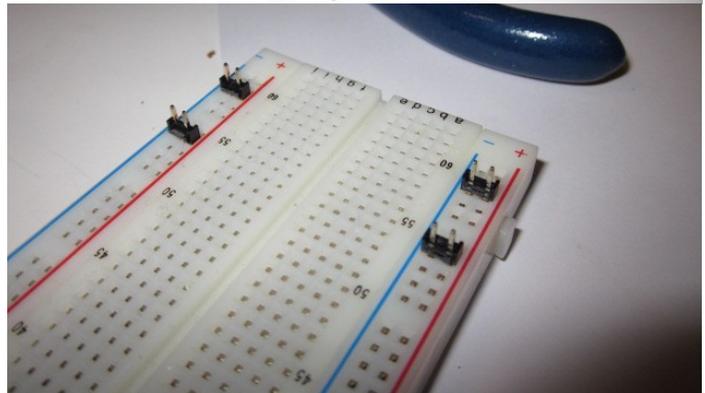
Step 5:

The last top-side component is the LM 317 regulator. Don't worry if it leans a little bit when you solder it in—you can bend it one way or the other if you want.

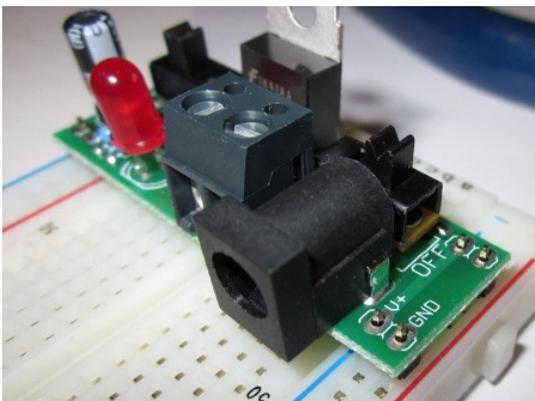


Step 6:

We've saved the trickiest for last. The best way to get the 1x2 pin headers soldered in nice and straight is to use your solderless breadboard as a jig. Space the 1x2 pin headers 5 rows apart, with the long side sticking into the breadboard.



Then, set the assembled kit on top, so the short ends of the pin headers stick up through the holes in the PCB, as shown below. Solder them in place from the top, and you're done!



This is how your power supply should look when you're done:

