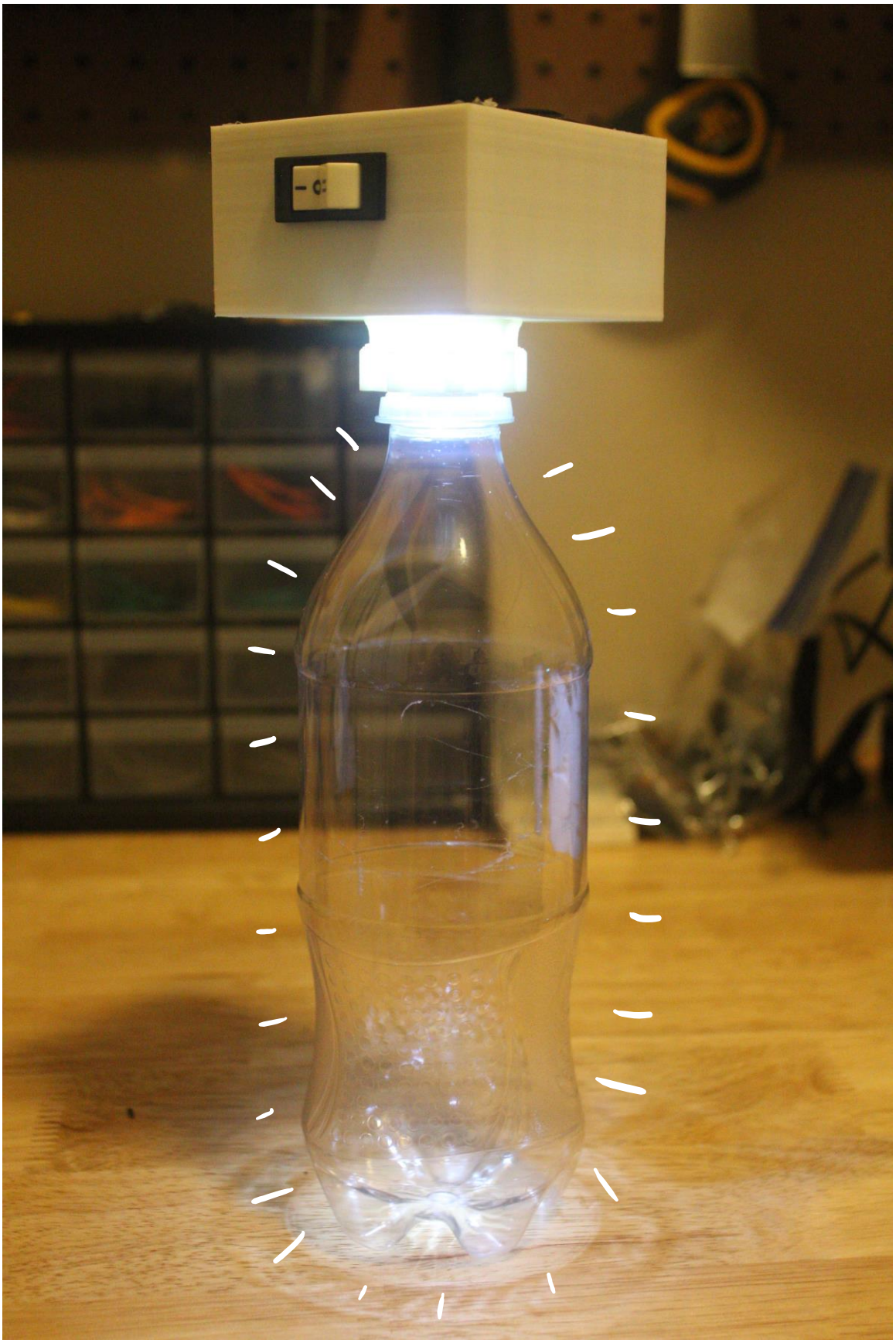
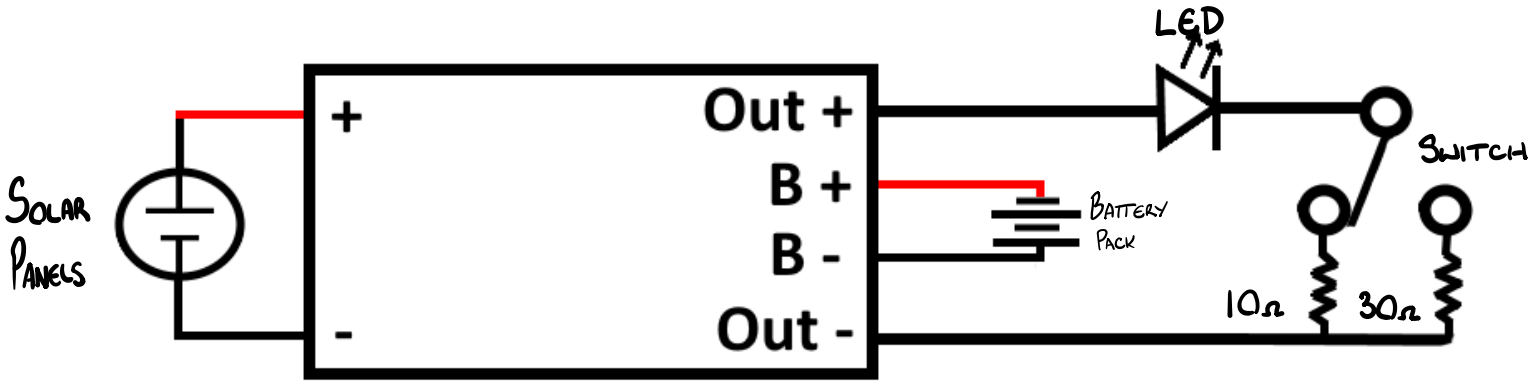
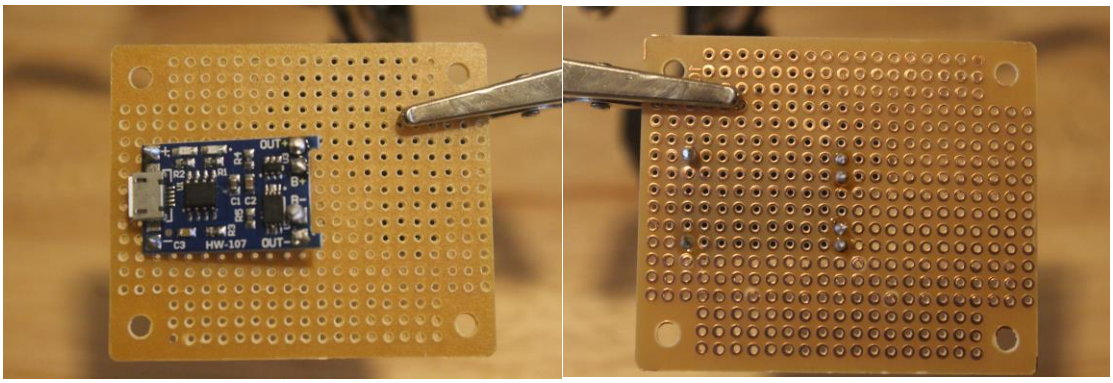


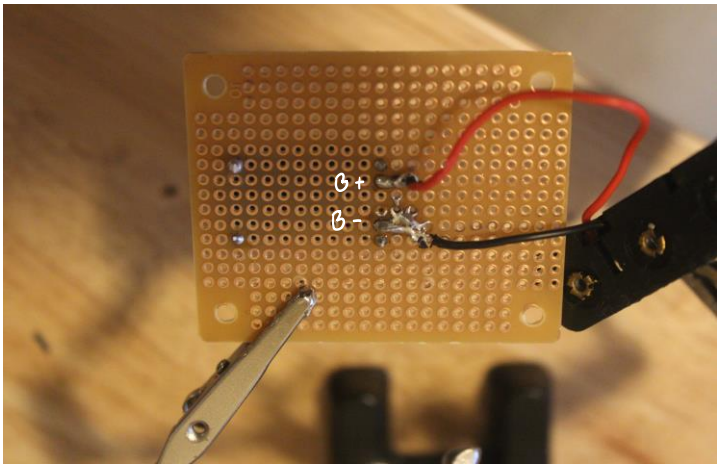
CIRCUIT DIAGRAM



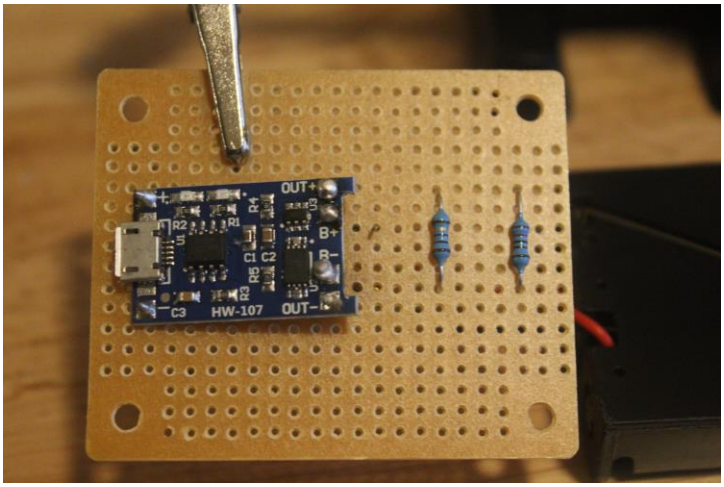
Step 1: Solder Battery Charger to perf board



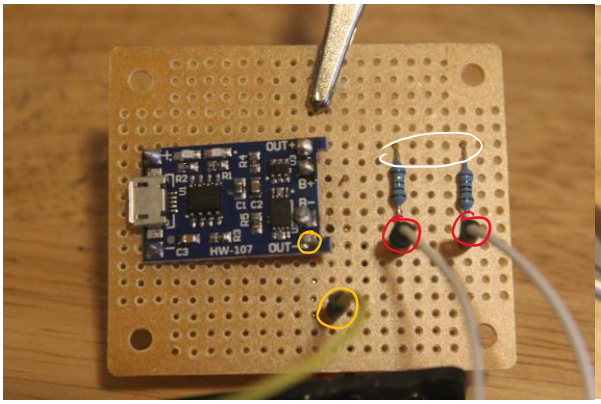
Step 2: Solder Battery Pack to B+ and B- pins. (RED to B+, BLACK to B-)

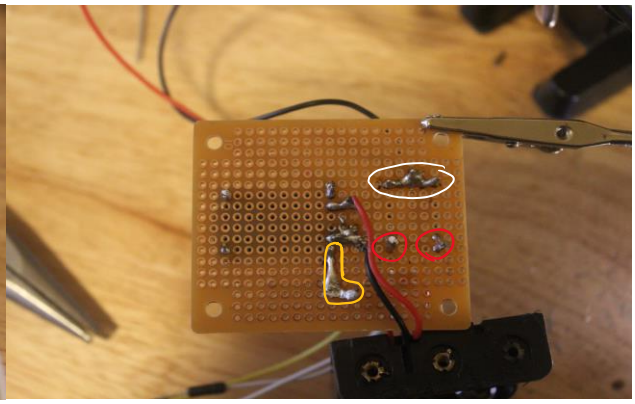


Step 3: Solder 30 ohm and 10 ohm resistor to board



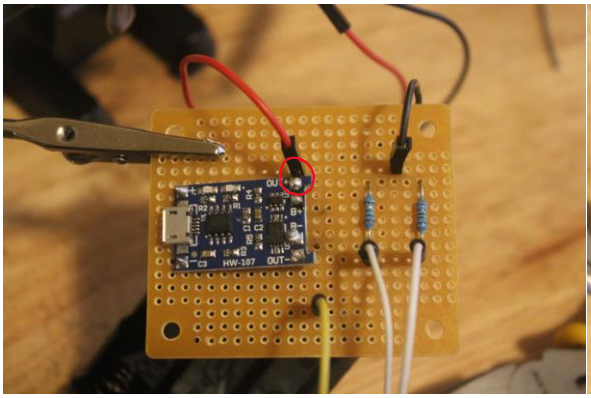
Step 4: Add the wires for the 2-way switch. The nodes on the “top end” of both resistors should be soldered together, but the bottom nodes where the wires connect MUST BE SEPARATE. The third wire is then soldered to the OUT- node

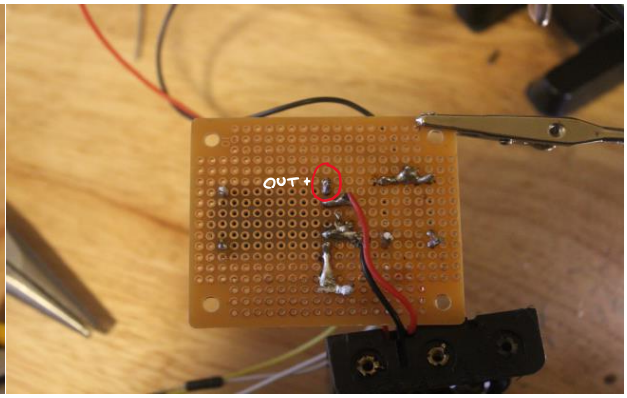




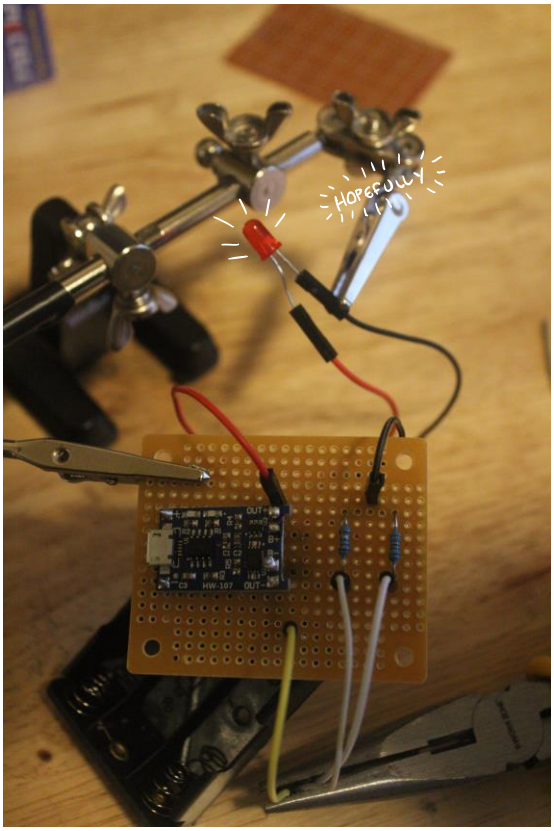
Step 5: Solder the wires connecting to the resistors individually to the each outside prong of the switch, then solder the wire connected to the OUT- node to the middle prong of the switch.

Step 6: Adding the wires for the LED. Solder a male to female wire to the OUT+ node, and a male to female wire to the node connecting the top end of the two resistors. Solder the male ends of the wires to the perf board.





Step 7: Add batteries and LED to check if the 2-way switch circuit is working properly.



Step 8: Solder solar panel wires to their corresponding + and – inputs of the perf board.

(RED is + Black is -)