

Assembly and Bill of Materials for Info Where You Go.

Revision 1. March 3, 2015

Bill of Materials

1 Each of the items below.

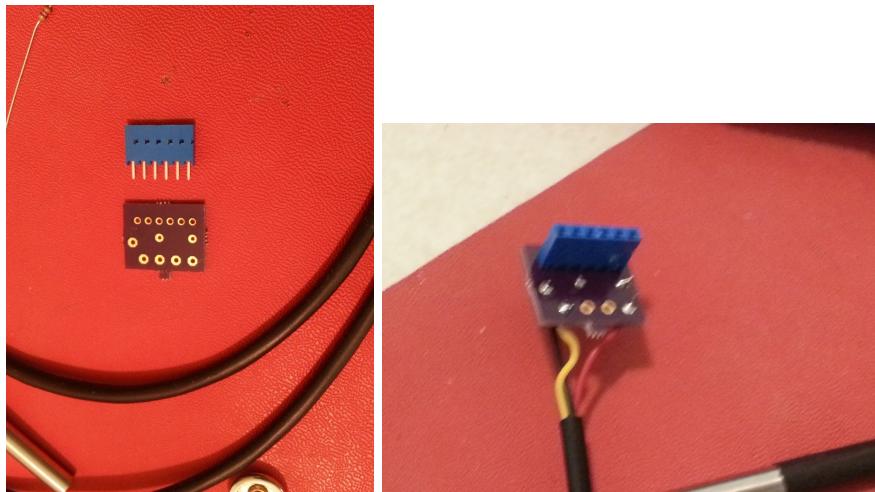
1. Circuit Board
2. 6 POS .100" SGL PCB Connector. Digikey: 609-3558-ND
<http://www.digikey.com/product-detail/en/75915-306LF/609-3558-ND/1523584>
3. 4.7K OHM 1/8 5% CF AXIAL resistor. Digikey: CF18JT4K70CT-ND
<http://www.digikey.com/product-detail/en/CF18JT4K70/CF18JT4K70CT-ND/2022758>
4. Probe. DS18b20 Waterproof Temperature Probe. Find on Amazon. Several available, we used the model from Vktech.

Assembly

Step 1. Lay out parts as below.

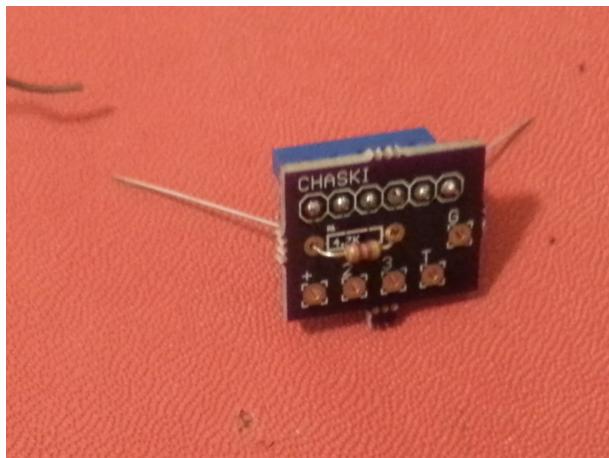


Step 2. Attach the connector. The connector attaches to the bottom of the circuit board. *This is the step that is most often done correctly.* Make sure you feed the pins into the side of the board which does not say **chaski**.



If you put the connect in backwards, you will likely have to chop the plastic up and remove each pin one and a time, then clear the solder out of the holes.

Step 3. Attach the resistor. No specific instructors, except make sure to get good solder joints.

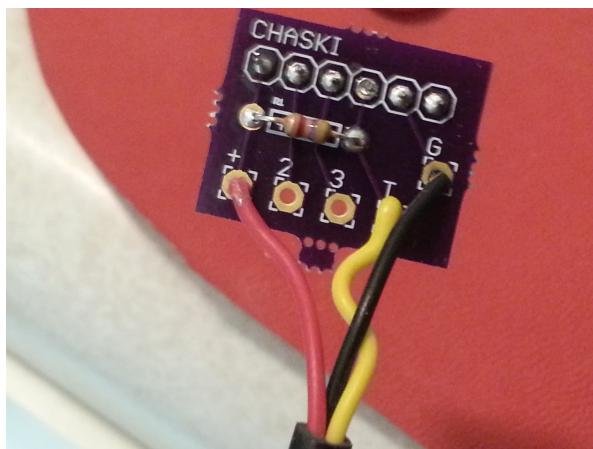


Step 4. Attach the temperature probe.

Red goes to plus.

Black goes to G.

Remaining color goes to T. We have seen yellow and blow as colors on these probes.



Step 5. Connect to Raspberry PI. Device goes onto P1, inside row, of the GPIO pins.

