

## **Touch Switch Parts List**

1. TTP223 Touch Sensor \$9.99 for 10

[https://www.amazon.com/gp/product/B01LWKFS7L/ref=ppx\\_yo\\_dt\\_b\\_search\\_asin\\_title?ie=UTF8&psc=1](https://www.amazon.com/gp/product/B01LWKFS7L/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&psc=1)

2. 100 ohm Resistor \$4.99 for 100

[https://www.amazon.com/gp/product/B07QKDSCSM/ref=ppx\\_yo\\_dt\\_b\\_search\\_asin\\_title?ie=UTF8&psc=1](https://www.amazon.com/gp/product/B07QKDSCSM/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&psc=1)

3. PC817C Optocoupler \$8.99 for 50

[https://www.amazon.com/gp/product/B0833TN6VZ/ref=ppx\\_yo\\_dt\\_b\\_search\\_asin\\_title?ie=UTF8&psc=1](https://www.amazon.com/gp/product/B0833TN6VZ/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&psc=1)

4. 3.5mm Male Cable \$14.99 for 10

[https://www.amazon.com/gp/product/B082VVPTN6/ref=ppx\\_yo\\_dt\\_b\\_search\\_asin\\_title?ie=UTF8&psc=1](https://www.amazon.com/gp/product/B082VVPTN6/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&psc=1)

5. DC Male Power Cable \$8.99 for 10

[https://www.amazon.com/gp/product/B07C7VSRBG/ref=ppx\\_yo\\_dt\\_b\\_search\\_asin\\_title?ie=UTF8&psc=1](https://www.amazon.com/gp/product/B07C7VSRBG/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&psc=1)

6. Zip Ties \$5.49 for 100

[https://www.amazon.com/TR-Industrial-TR88301-Multi-Purpose-Cable/dp/B01018DB2E/ref=sr\\_1\\_4?crid=2F6Y517DKVSVH&keywords=zip+ties+small&qid=1668401320&sprefix=zip+ties+small%2Caps%2C125&sr=8-4](https://www.amazon.com/TR-Industrial-TR88301-Multi-Purpose-Cable/dp/B01018DB2E/ref=sr_1_4?crid=2F6Y517DKVSVH&keywords=zip+ties+small&qid=1668401320&sprefix=zip+ties+small%2Caps%2C125&sr=8-4)

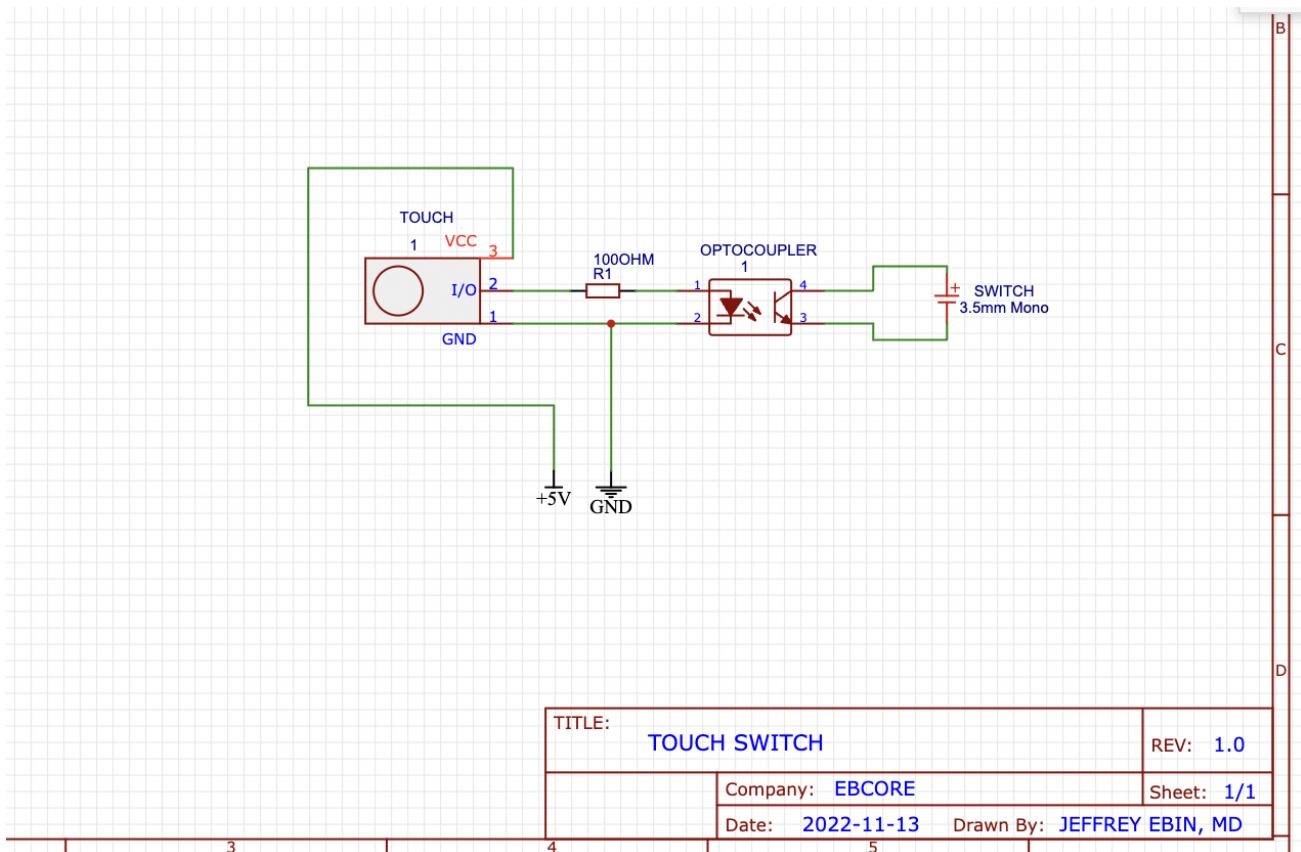
7. 3D Printed Case

<https://www.thingiverse.com/thing:5628657>

8. 5V Power Supply \$10.99 for 2

[https://www.amazon.com/gp/product/B08722QC75/ref=ppx\\_yo\\_dt\\_b\\_search\\_asin\\_title?ie=UTF8&psc=1](https://www.amazon.com/gp/product/B08722QC75/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&psc=1)

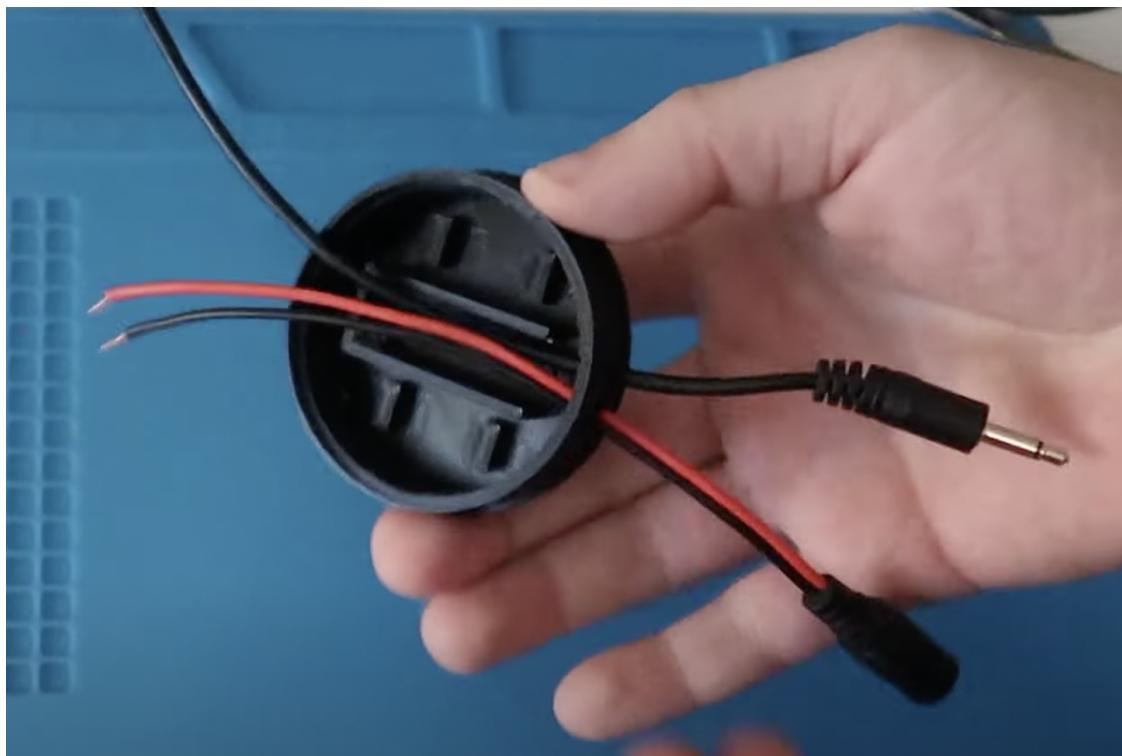
## Wiring Schematic



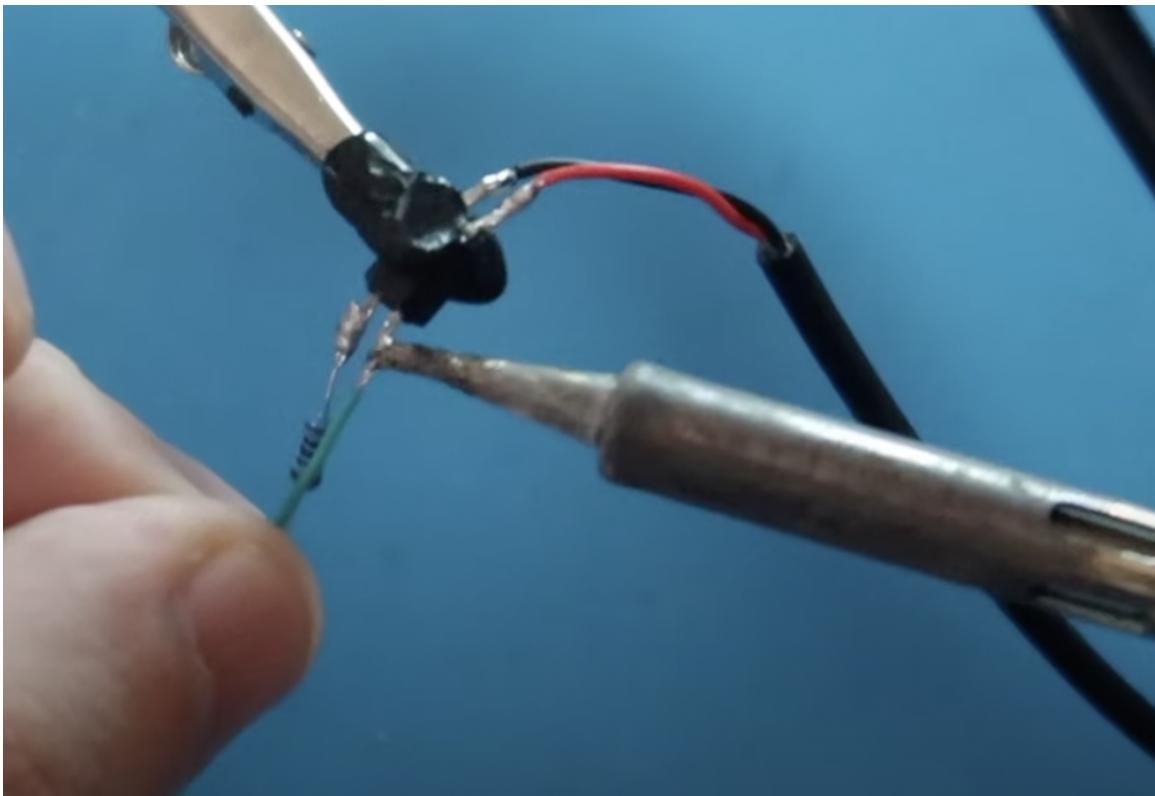
**Touch Switch Photo Tutorial:**



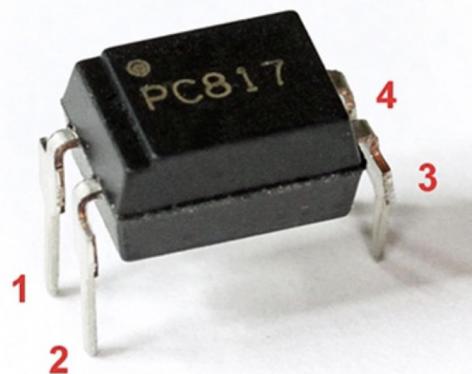
**1. Place the two wires into the case:**



## 2. Solder the OptoCoupler Connections

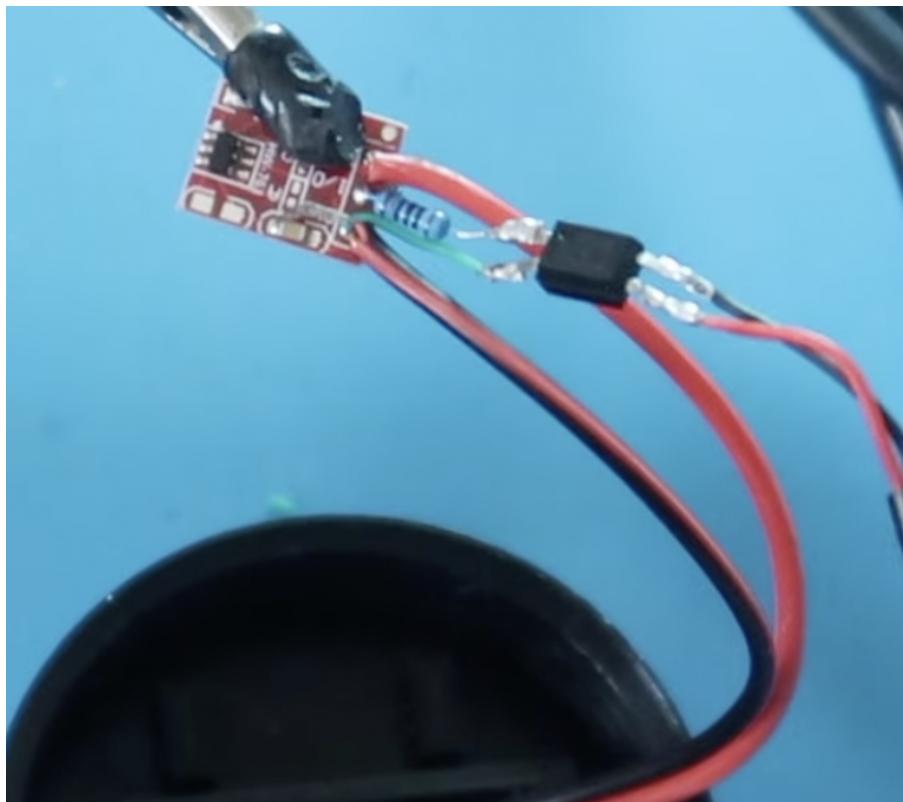


Optocoupler Pinout

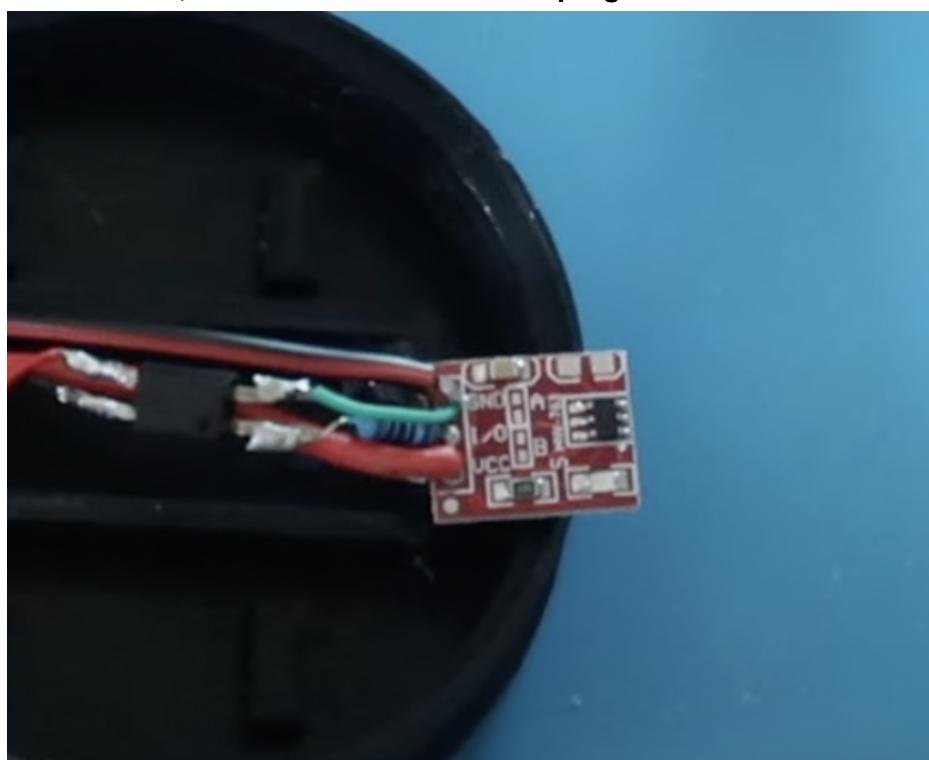


- 1- 100 ohm Resistor
- 2-Ground
- 3-3.5mm Switch
- 4-3.5mm Switch

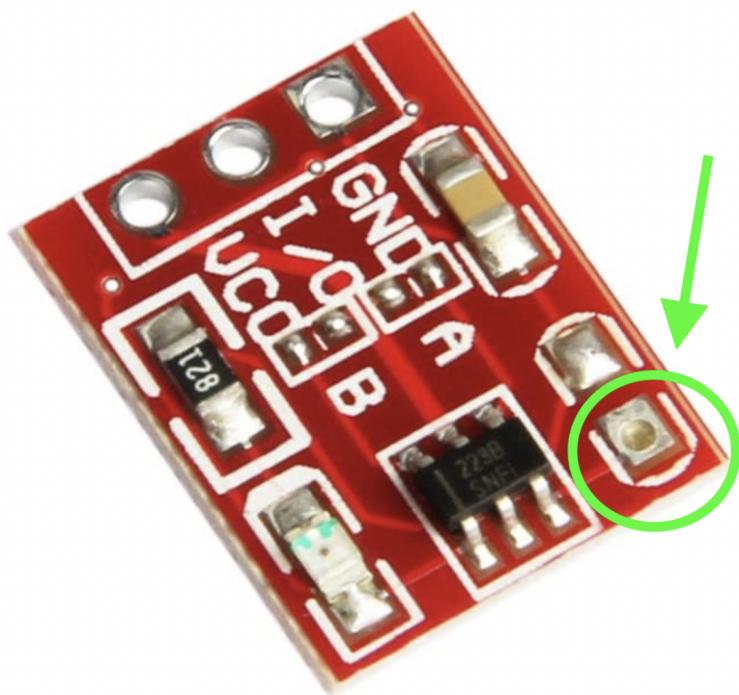
**3. Solder the Touch Switch Connections (see above wiring diagram)**



**4. Once in the case, add Extra wire onto the top right of the touch switch (see below)**



Attach an 8 inch length of 26 Gauge wire to the area in the green circle.



5. Loop the wire inside the case and place all components into the case, a glue gun can help secure them



**6. Plug power into a 5V 2 amp outlet and you are done!**



**FULL DEMO BUILD VIDEO:**

<https://youtu.be/lro8C4j6y7s>