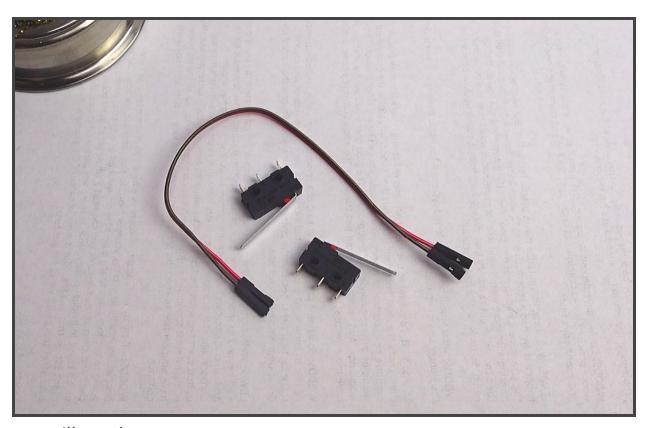
ProtoBot Bump Sensor Soldering Guide



You will need:

Parts:

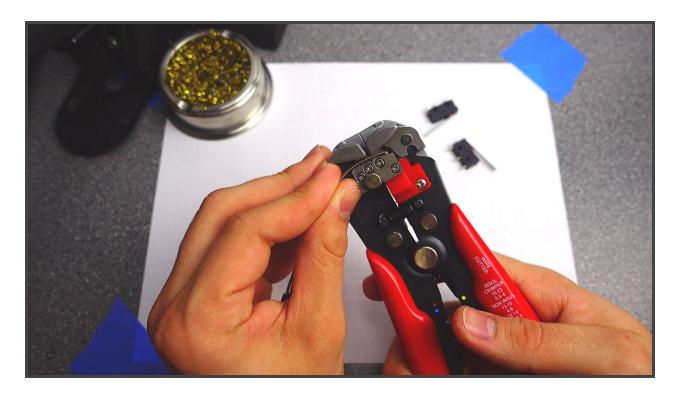
- 2 x Limit Switches
- 1 set of two DuPont Female-Female jumper wires

Tools:

- Wire cutters/Strippers
- Soldering Iron with Fine tip
- Helping Hands, or something to hold the bump sensors in place (I used tape)



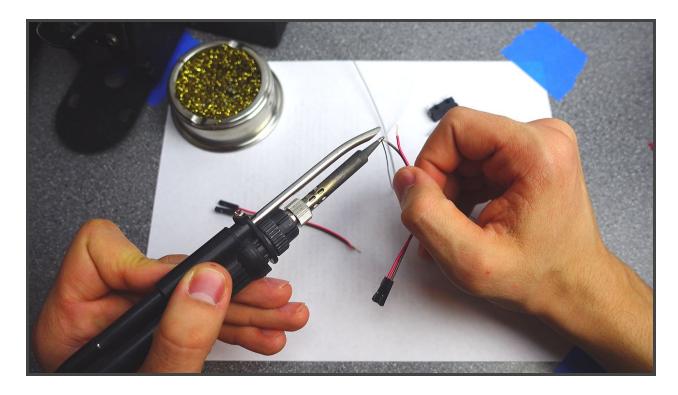
• Cut your pair of wires in half



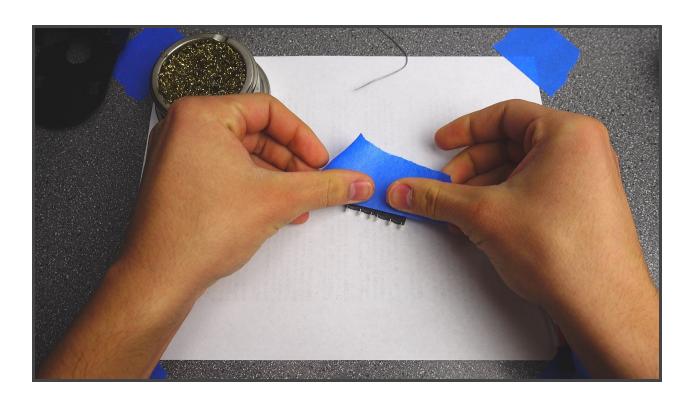
• Use your wire strippers to strip about 5MM or 1/4" insulation off the ends



• Split the ends apart, then twist the loose strands on each wire end together



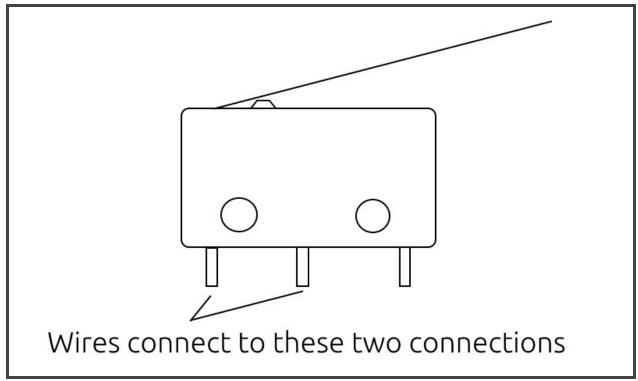
• Tin the wire ends, by holding them over the solder, then applying your tinned iron tip

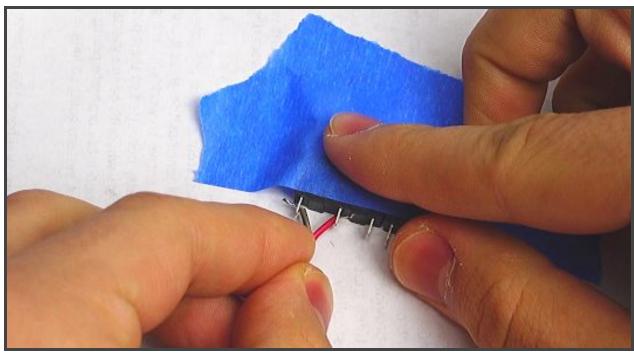


Secure the sensors so they won't move around

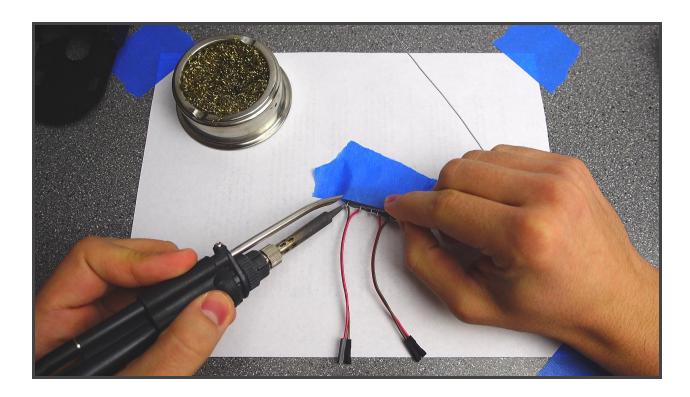


Bend the tinned ends of each wire so the wires are 180 degrees apart from each other

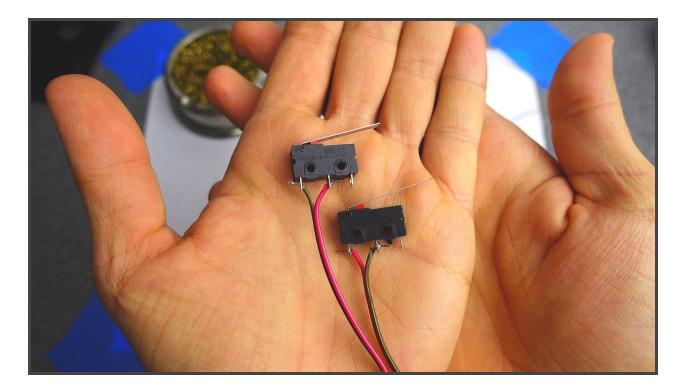




• Insert the wires into the correct metal tabs on each of the sensors, as shown.



• Solder each of the wires to the metal tabs



Your bump sensors are now ready to be used on a ProtoBot!