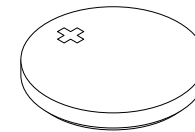


Shark

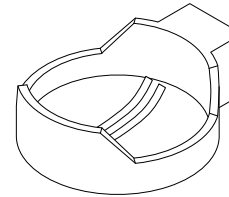
www.2DKits.comwww.build-a-blinkie.org

Parts List

Printed circuit
board (PCB)



2032 battery

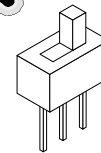
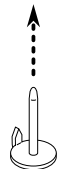


Battery holder

Tie tack clasp
(packaged together)



Tie tack



Switch



5 mm LED



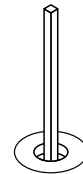
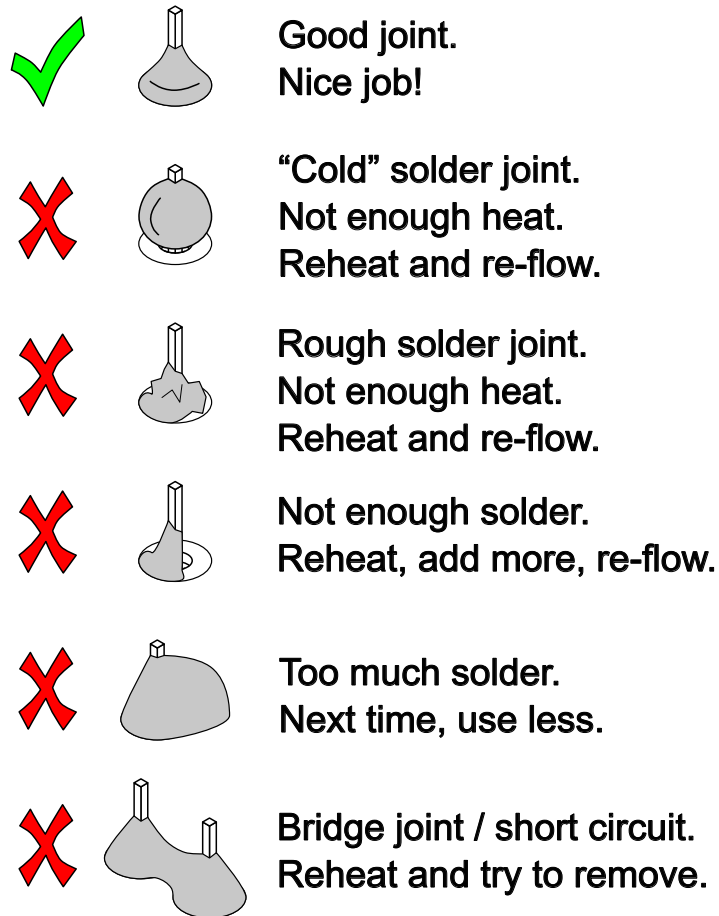
3 mm red LED

Need help? Please raise your hand.

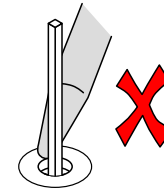
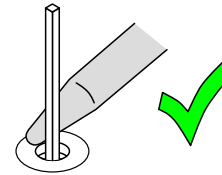
How To Solder

Solder flows and bonds to *hot* metal. The iron is used to melt the solder *and* heat the parts so the solder sticks.

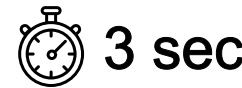
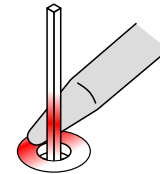
With a little practice, a good a solder joint should take about 8 to 10 seconds. The iron does not move during this time.



Insert and align part.

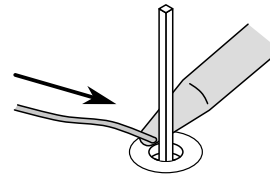


Touch iron to part
wire *and* PCB pad.

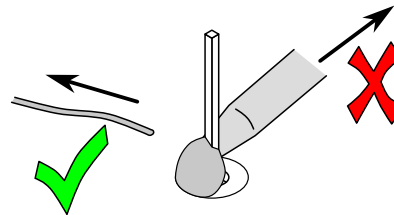


3 sec

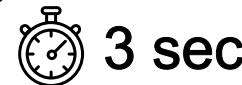
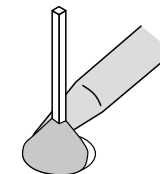
Heat wire and pad.



Melt about 1/2 inch
of solder into joint.

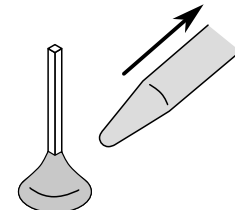


Remove solder.
DO NOT remove iron.



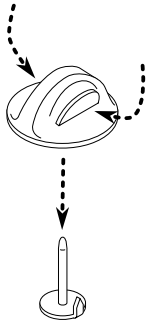
3 sec

Continue to heat solder and
parts. When everything gets
hot enough, the solder often
“pops” and flows into place.



When solder flows across
parts, remove iron. The solder
will cool and harden in seconds.

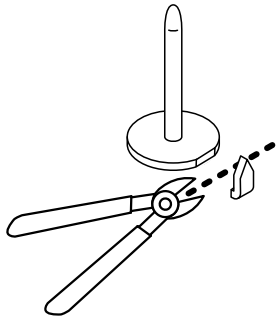
Step 1: Tie Tack



Remove tack from clasp by squeezing sides.

Use cutters to remove the "spike" from the tack.

Make sure spike doesn't fly off and hurt you or anyone around you.

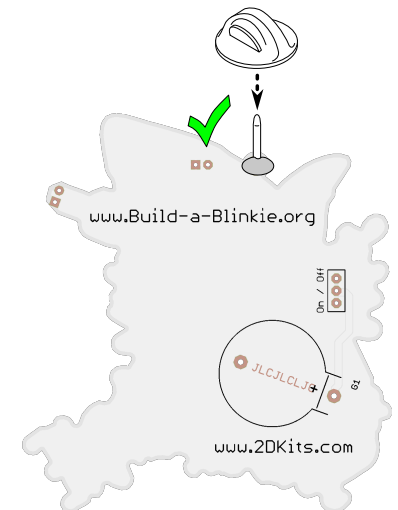
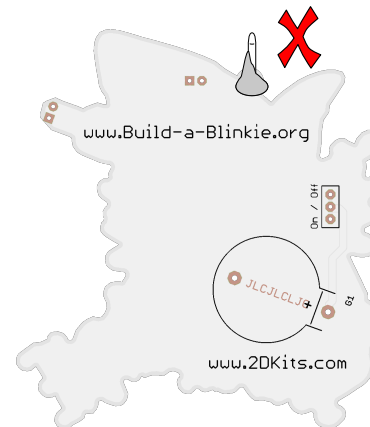
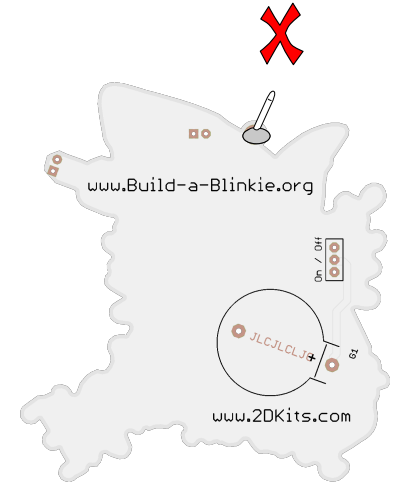
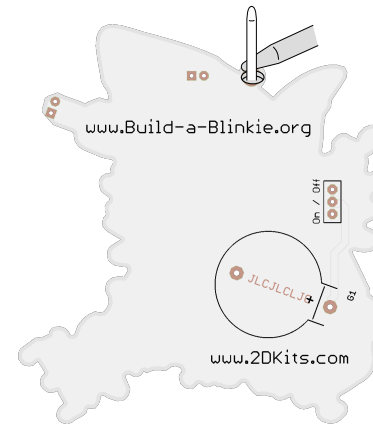


Insert tack from front of board.

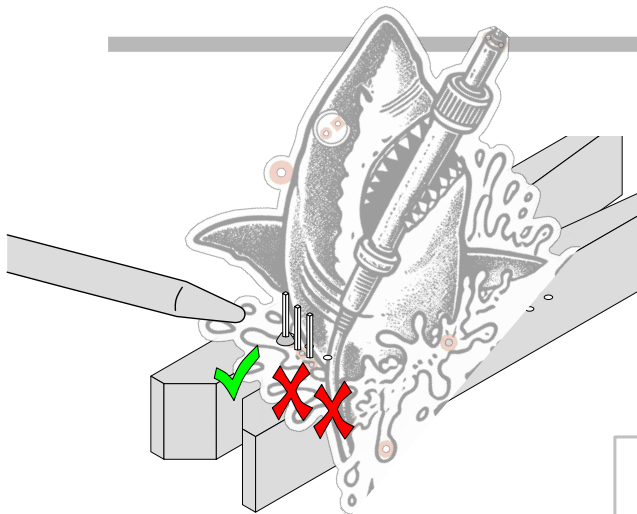
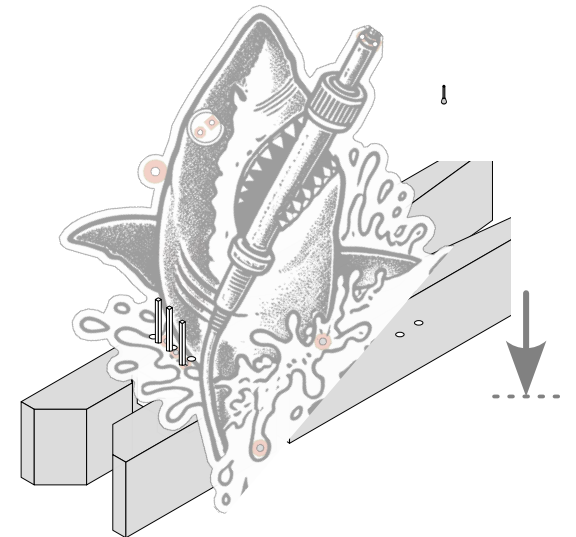
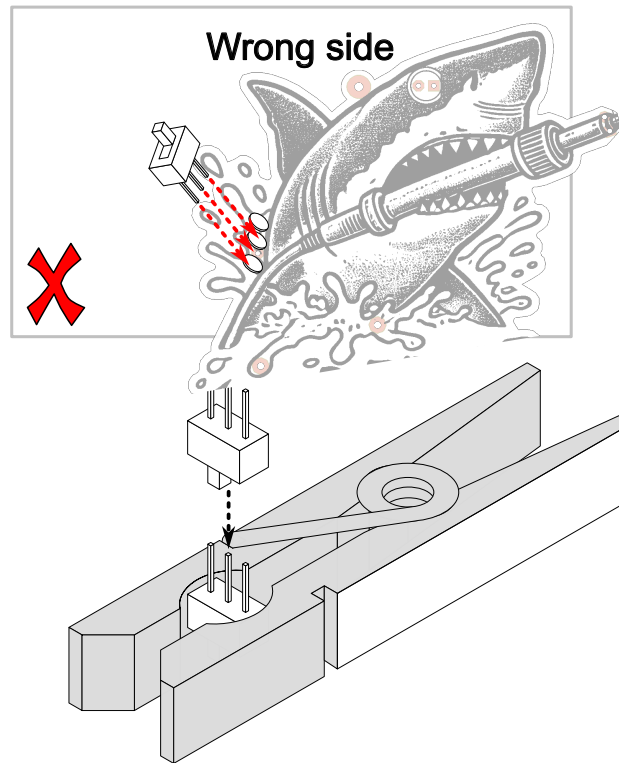
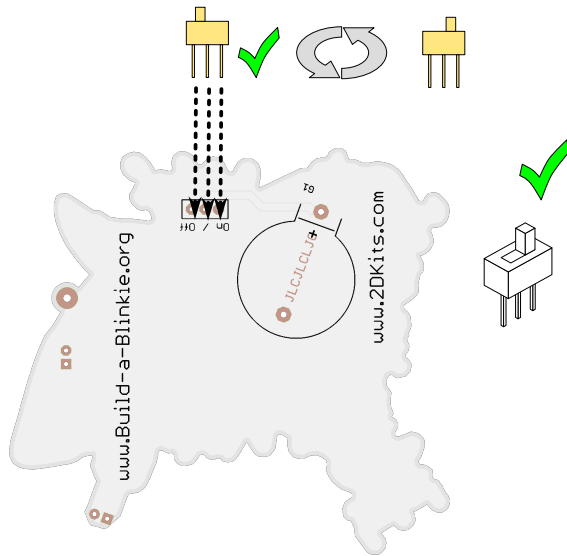
Make sure it lies flat.



Solder pin to board. The pin is large and may require more time to heat than other parts.

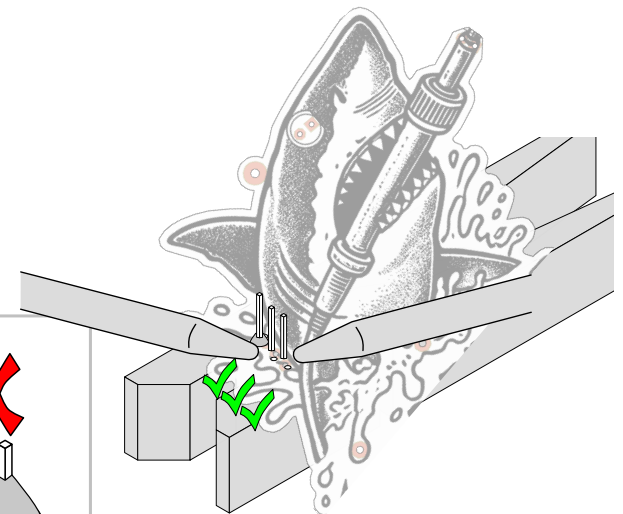
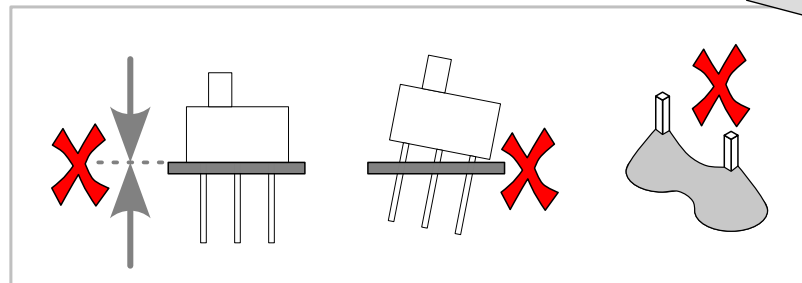
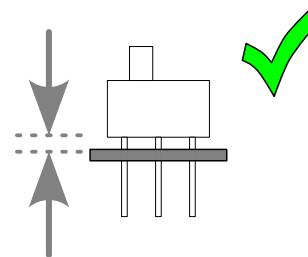


Step 2: Switch



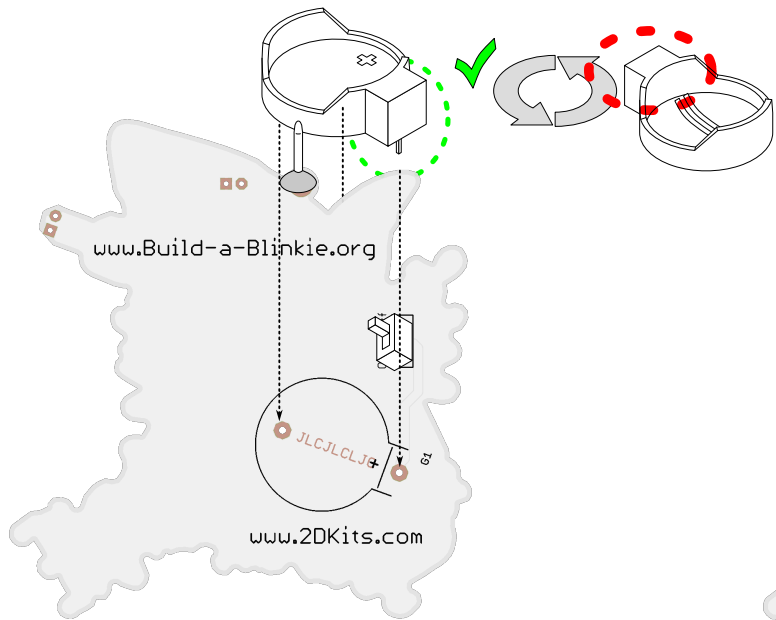
Solder one wire.

Double check

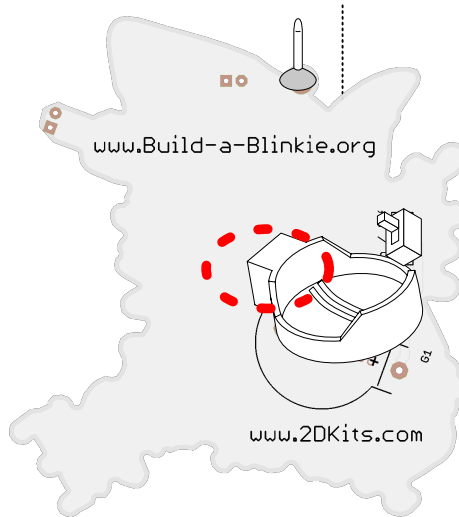


Solder remaining two wires.

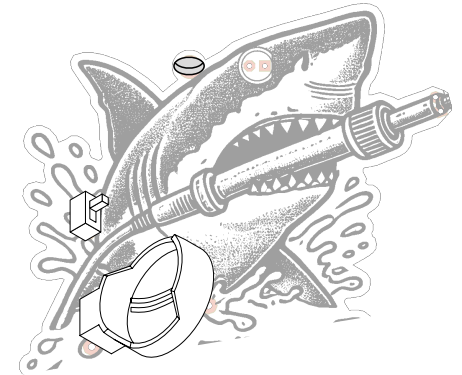
Step 3: Battery Holder



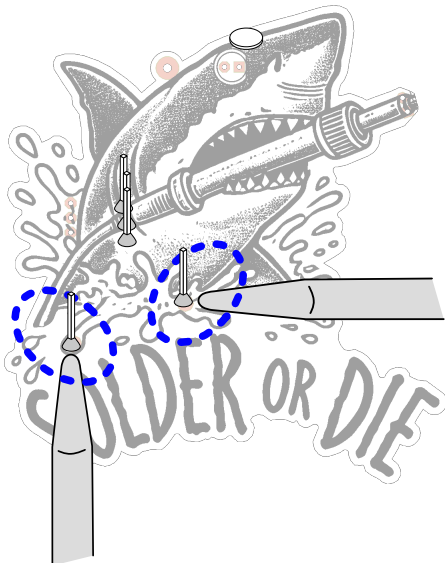
Wrong direction.
Match part outline on board.



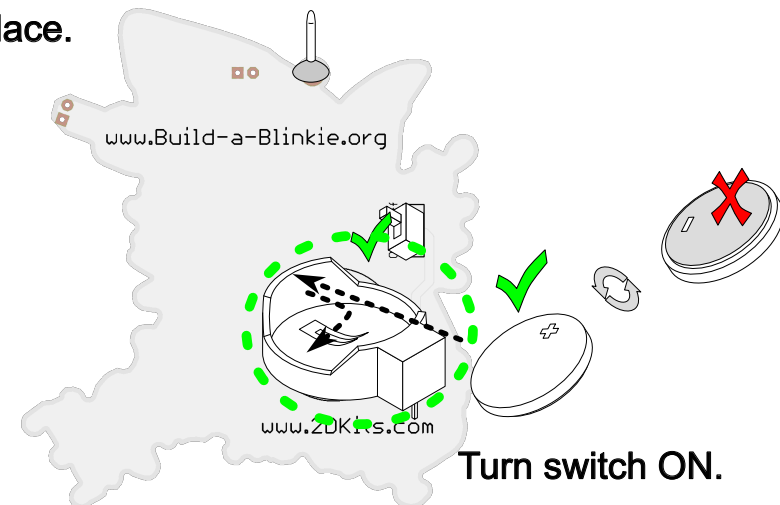
Wrong side



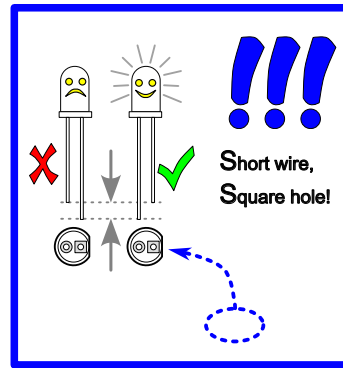
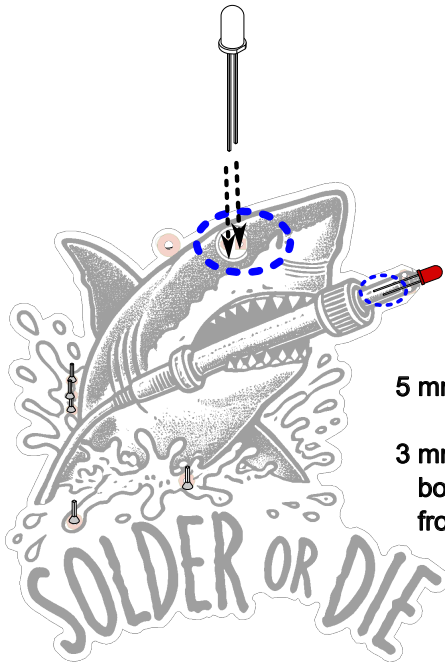
Solder battery holder.



Insert battery, flat side up. Slide edge in, then push down to snap into place.

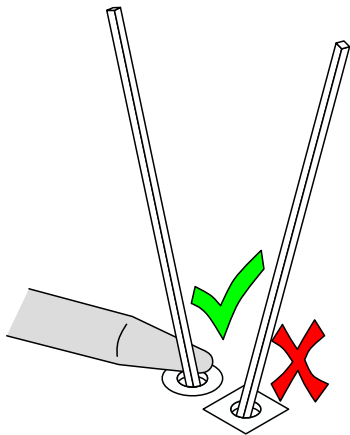
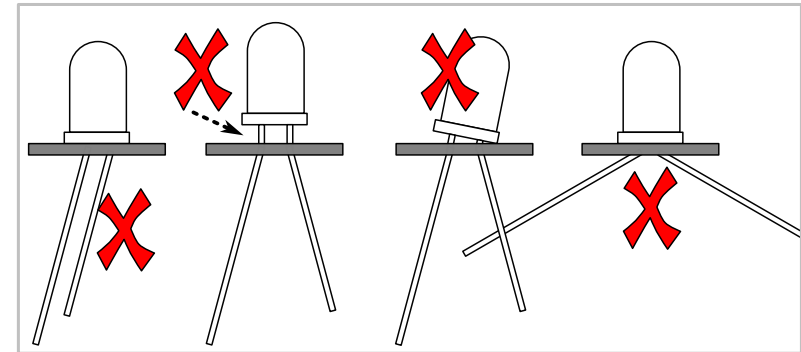
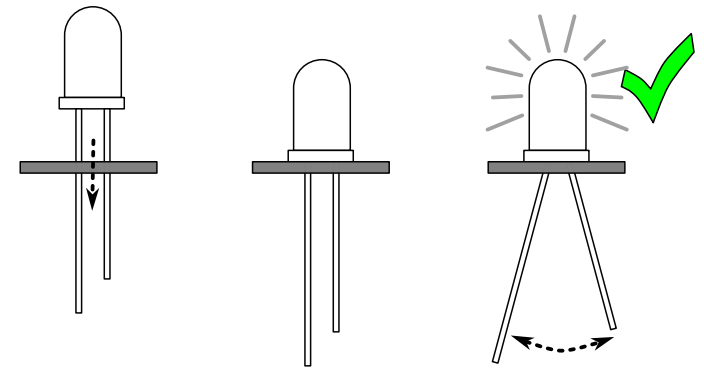


Step 4: LEDs

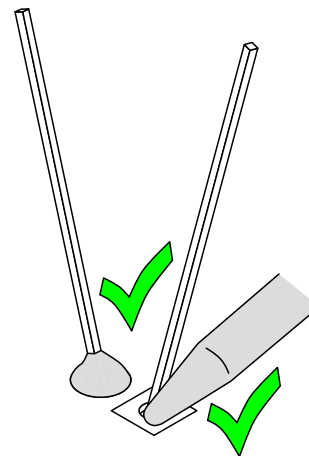
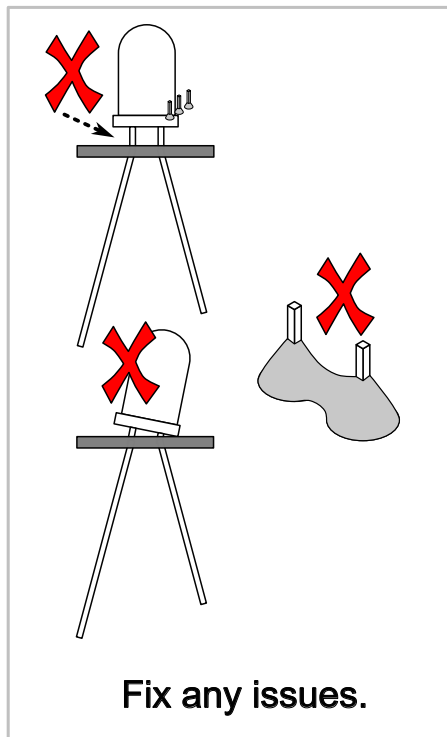


5 mm LED - Eye

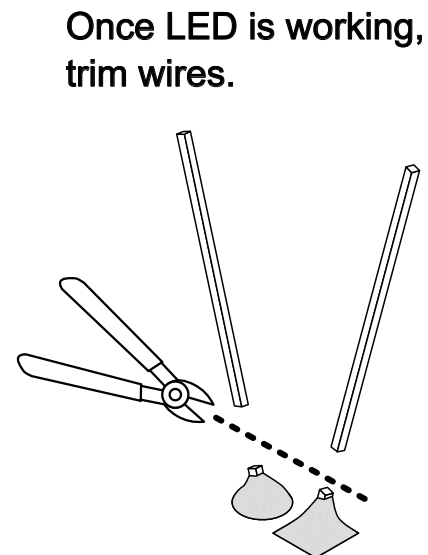
3 mm red LED - insert from the front of the board and bend wires so the LED extends from the edge of the board



Solder one wire.



Solder the other wire.



Make sure wires don't fly off and hurt you or anyone around you.

**Return instructions !
Leave solder**