

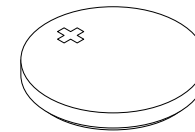
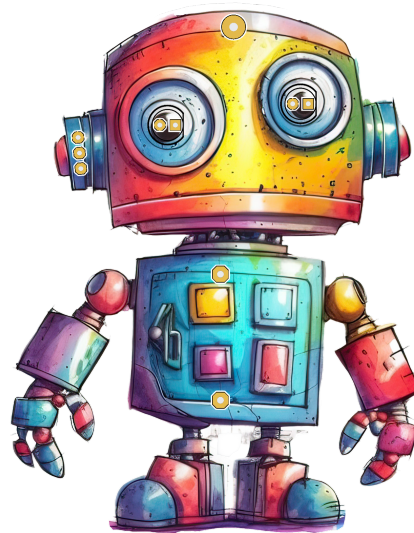
FC-Robot

Full Color Robot

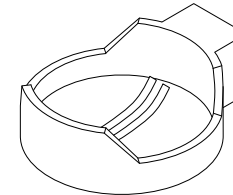
www.2DKits.comwww.build-a-blinkie.org

Parts List

Printed circuit
board (PCB)



2032 battery

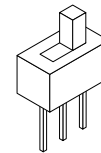
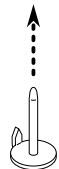


Battery holder

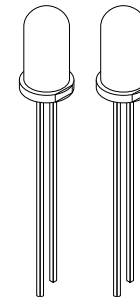
Tie tack clasp
(packaged together)



Tie tack



Switch



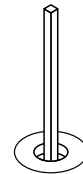
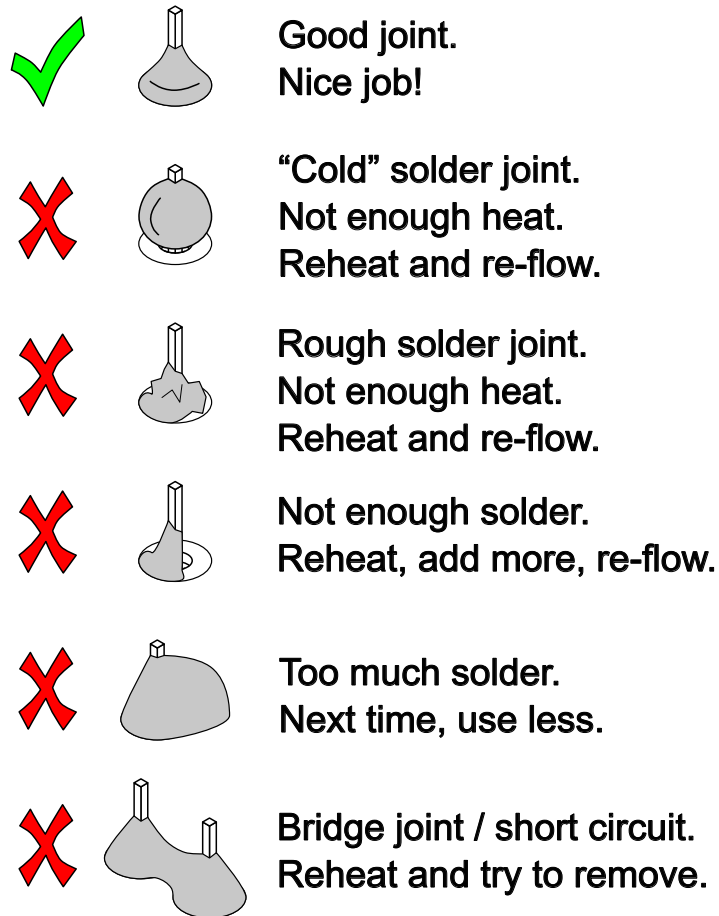
LED (2x)

Need help? Please raise your hand.

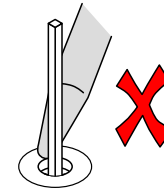
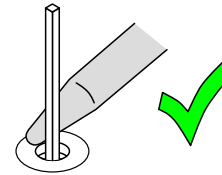
How To Solder

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

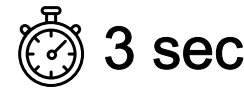
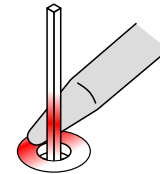
With a little practice, a good a solder joint should take about 8 to 10 seconds. The iron does not move during this time.



Insert and align part.

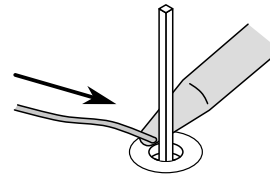


Touch iron to part
wire *and* PCB pad.

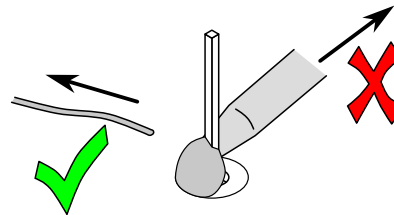


3 sec

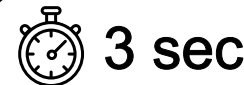
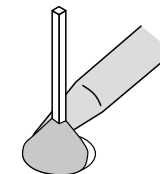
Heat wire and pad.



Melt about 1/2 inch
of solder into joint.

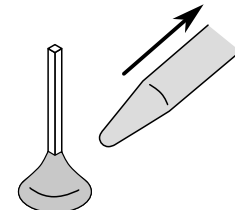


Remove solder.
DO NOT remove iron.



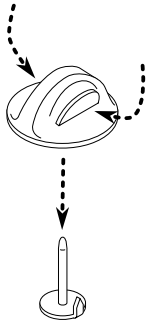
3 sec

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



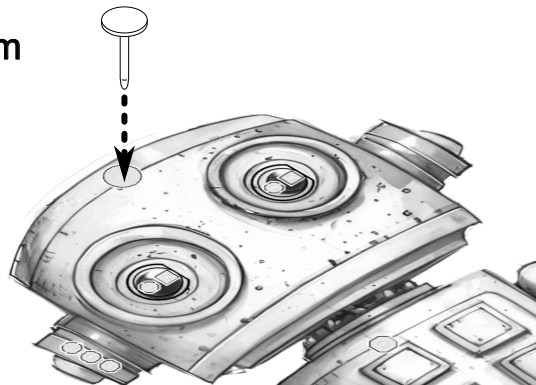
Remove tack from clasp by squeezing sides.

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

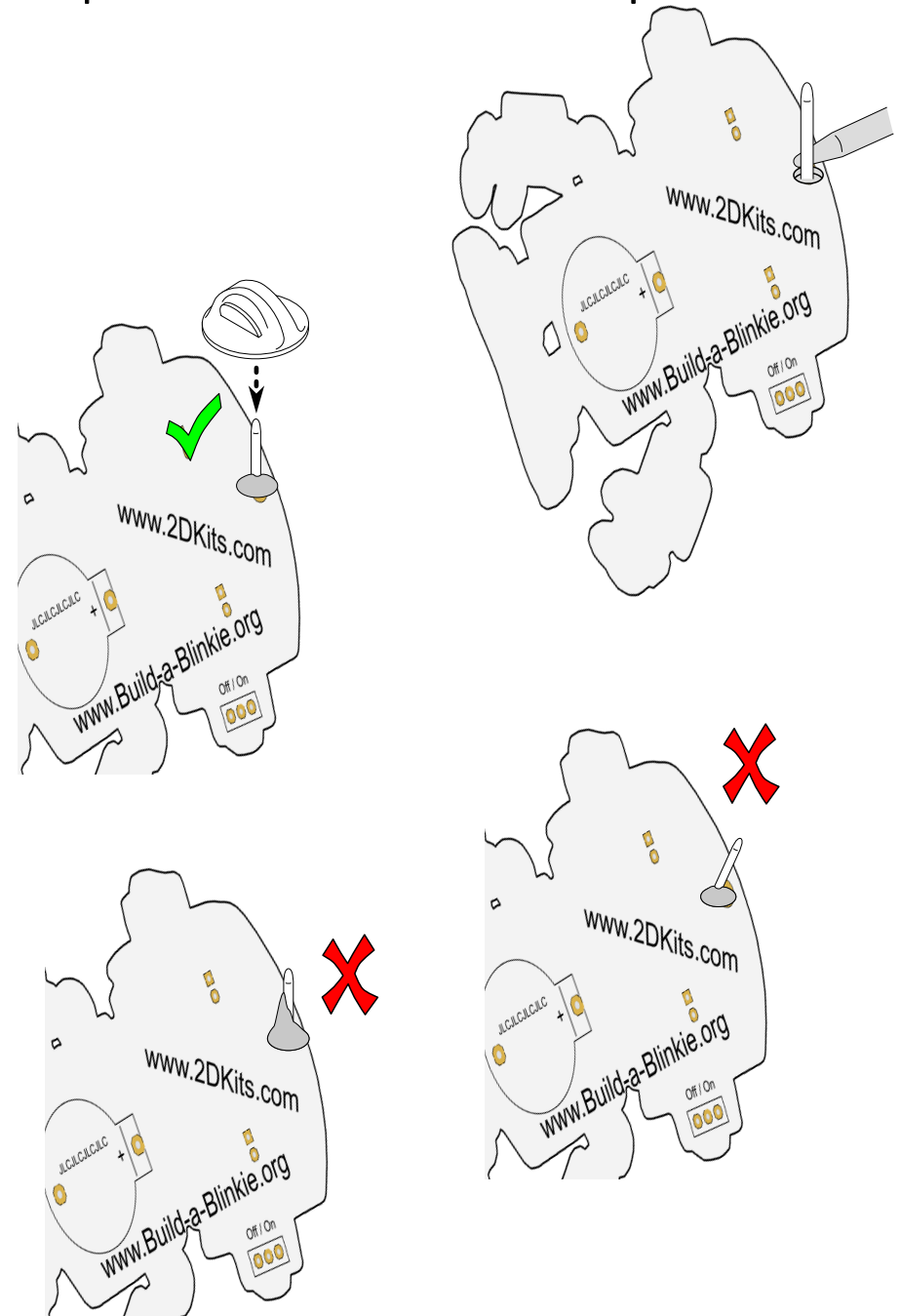
Make sure spike doesn't fly off and hurt you or anyone around you.

Insert tack from front of board.

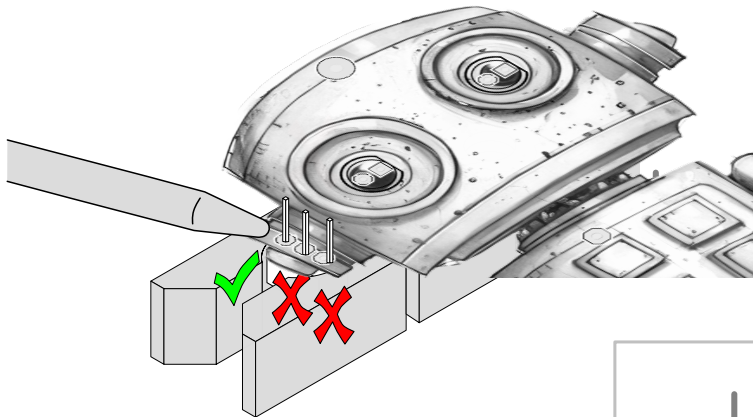
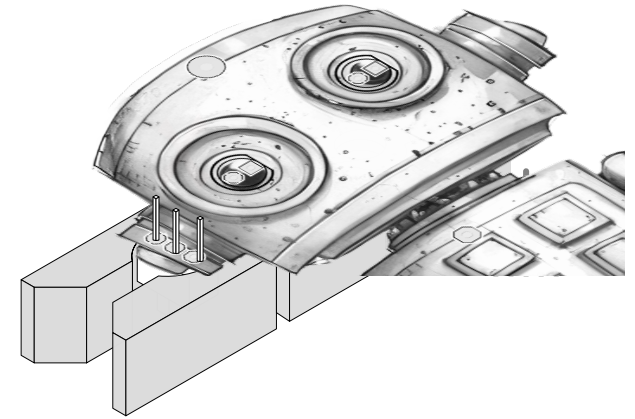
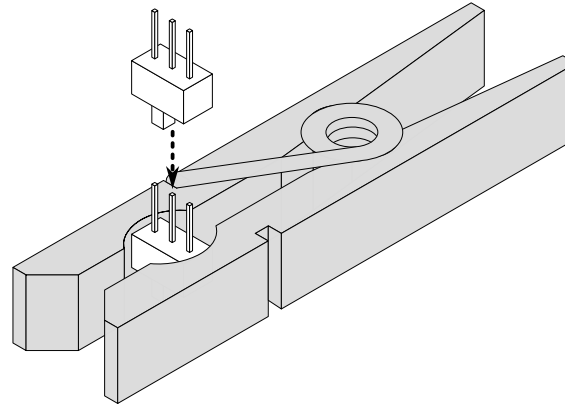
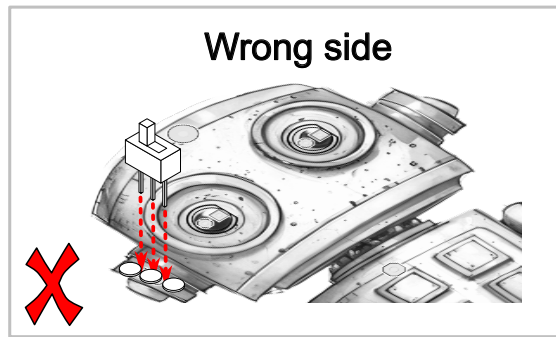
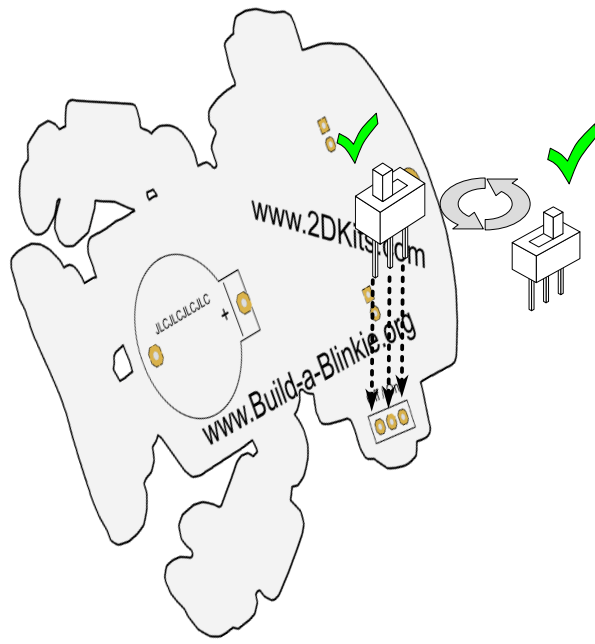
Make sure it lies flat.



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

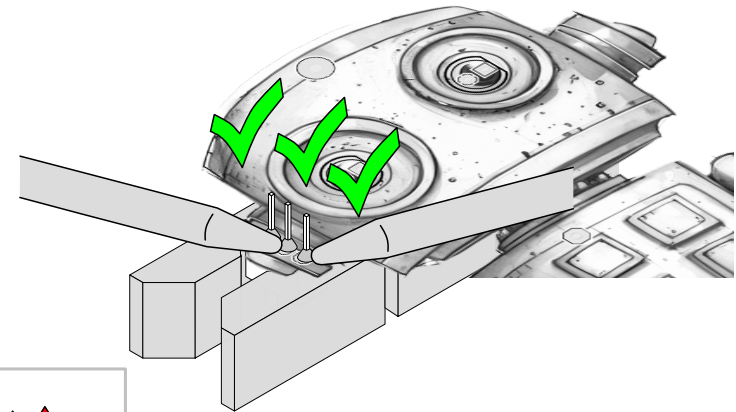
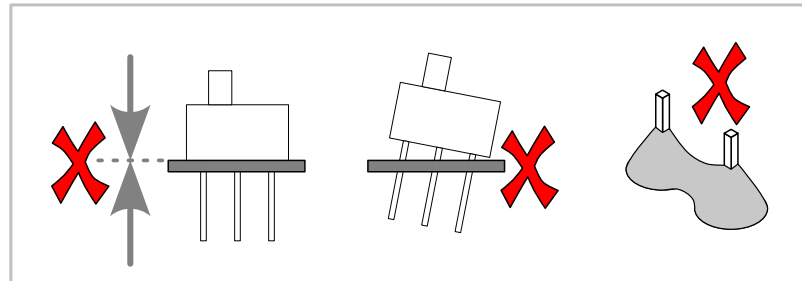
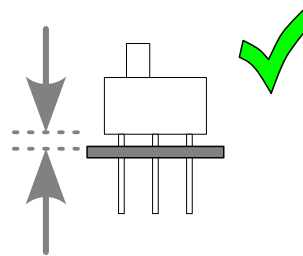


Step 2: Switch



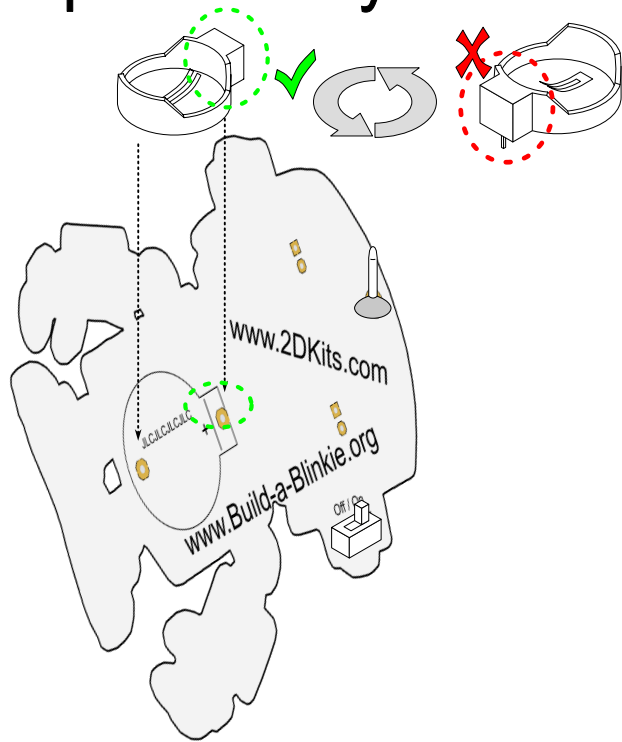
Solder one wire.

Double check

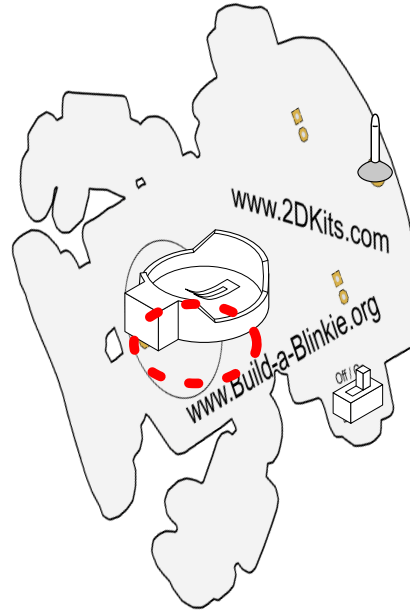


Solder remaining two wires.

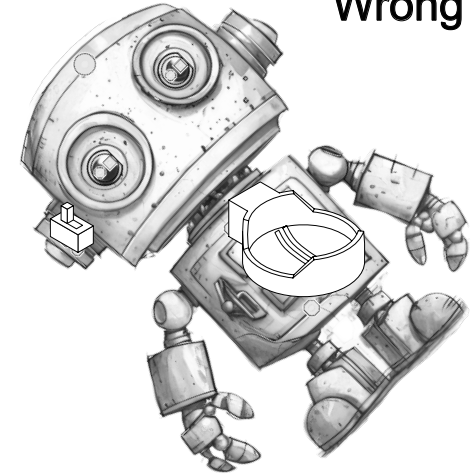
Step 3: Battery Holder



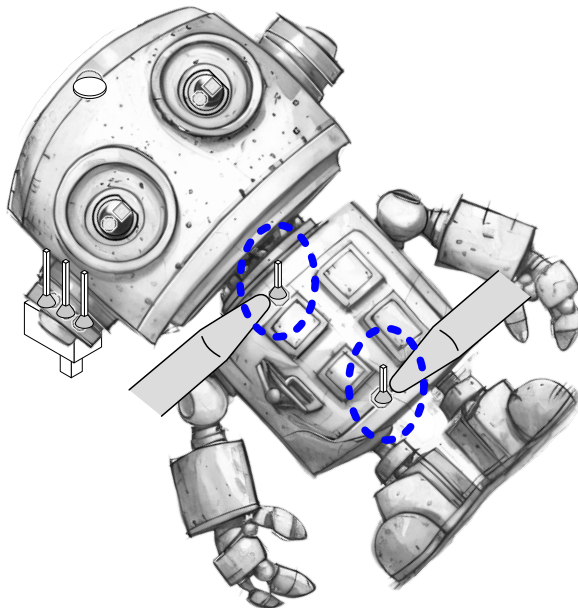
Wrong direction.
Match part outline on board.



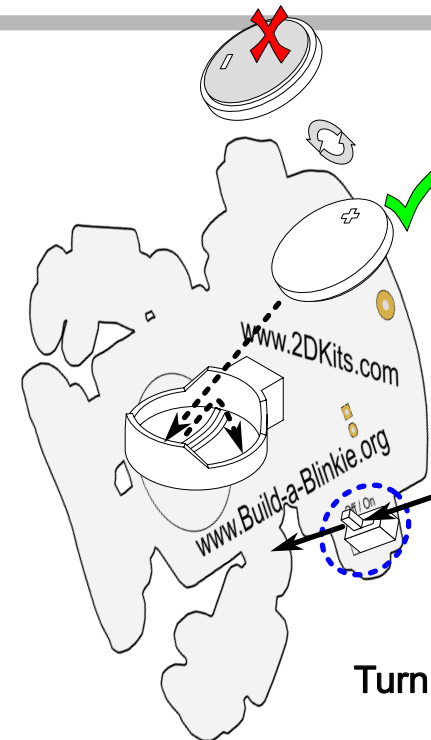
Wrong side



Solder battery holder.

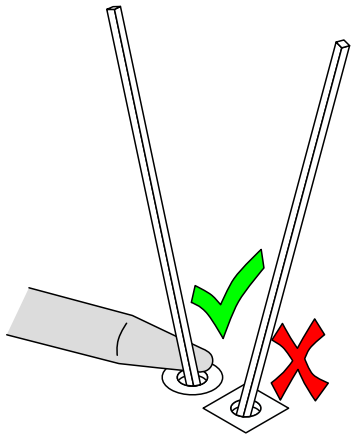
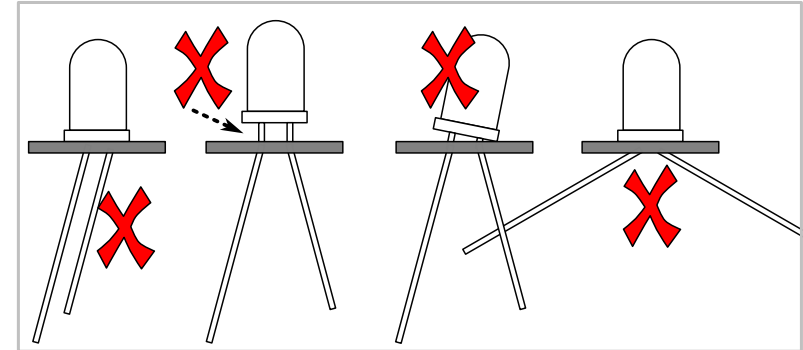
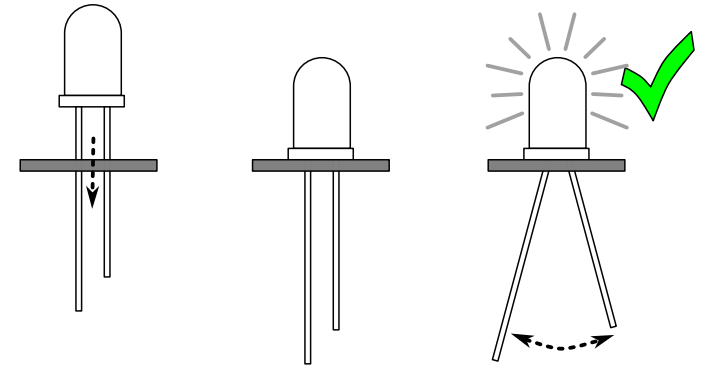
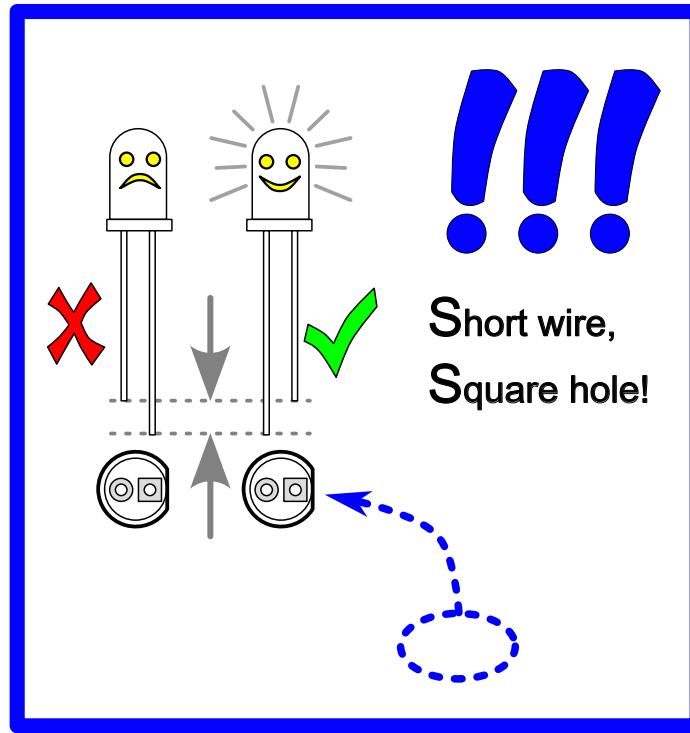
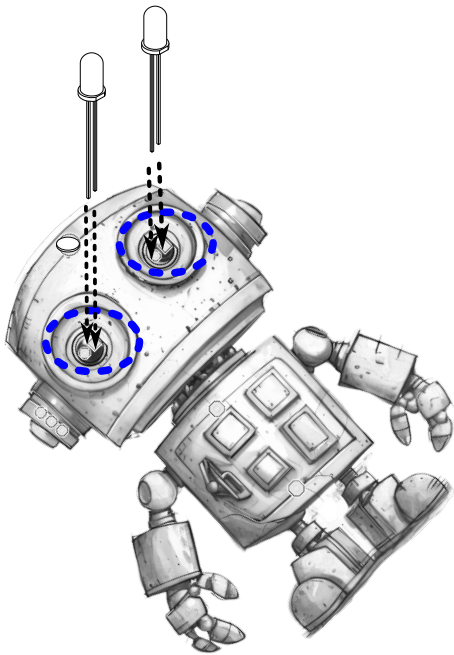


Insert battery, flat side up. Slide edge in, then push down to snap into place.

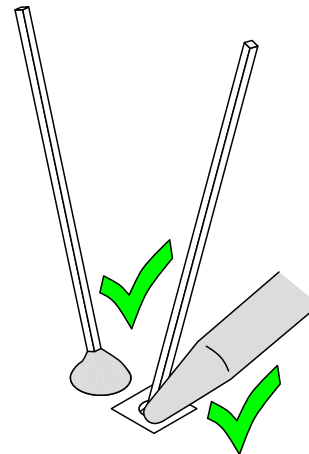
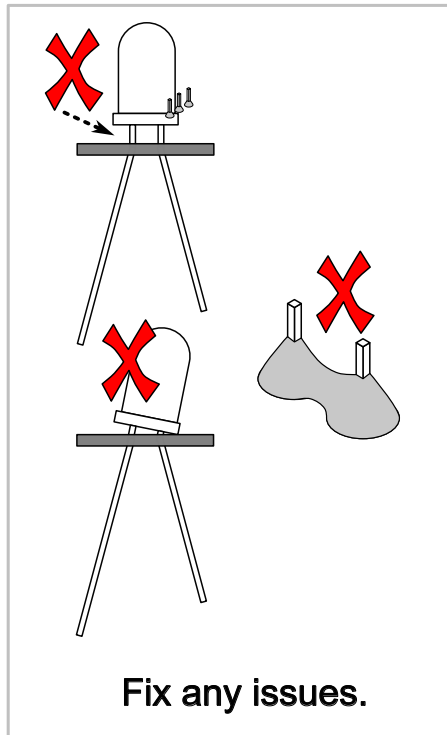


Turn switch ON.

Step 4: LEDs

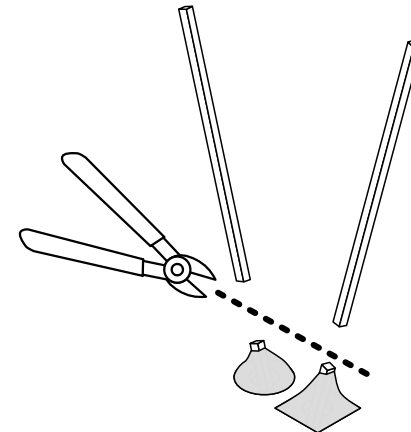


Solder *one* wire.



Solder the
other wire.

Once LED is working,
trim wires.



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

**Return instructions
Leave solder !**