

Please return instructions when finished

<https://pinballexpo.com>

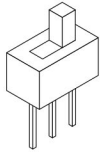
Pinball Expo

www.2DKits.com

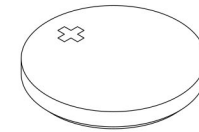
www.build-a-blinkie.org

Parts List

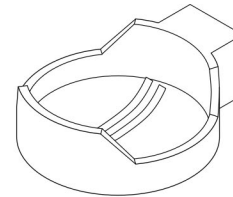
Switch



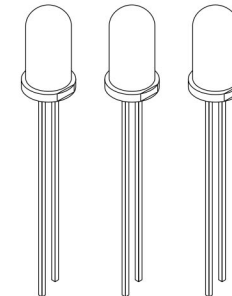
Printed circuit
board (PCB)



2032 battery



Battery holder



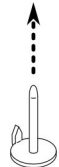
LEDs

Tie tack clasp



(packaged together)

Tie tack

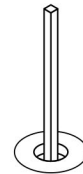
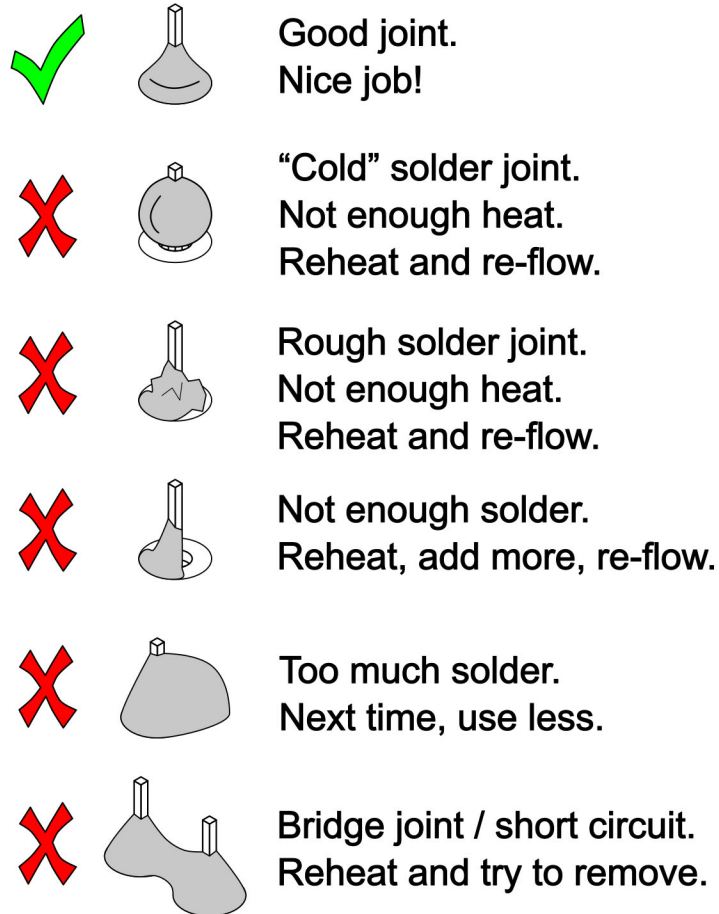


Need help? Please raise your hand.

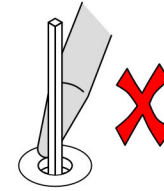
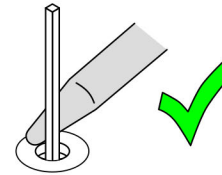
How To Solder

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

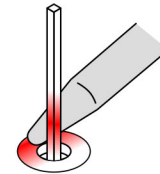
With a little practice, a good a solder joint should take about 8 to 10 seconds. The iron does not move during this time.



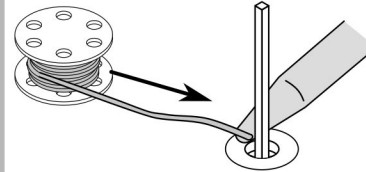
Insert and align part.



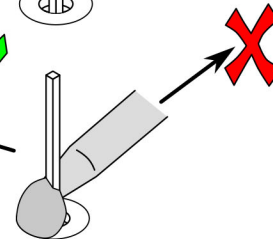
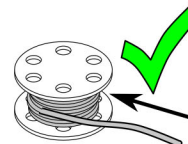
Touch iron to part
wire *and* PCB pad.



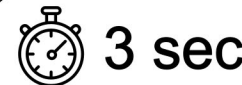
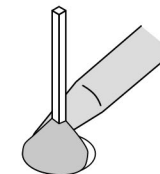
Heat wire and pad.



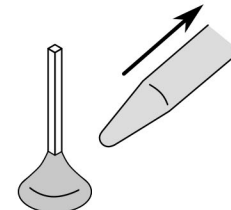
Melt about 1/2 inch
of solder into joint.



Remove solder.
DO NOT remove iron.

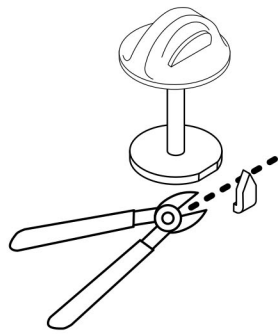


Continue to heat solder and
parts. When everything gets
hot enough, the solder often
“pops” and flows into place.



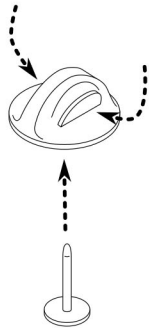
When solder flows across
parts, remove iron. The solder
will cool and harden in seconds.

Step 1: Tie Tack

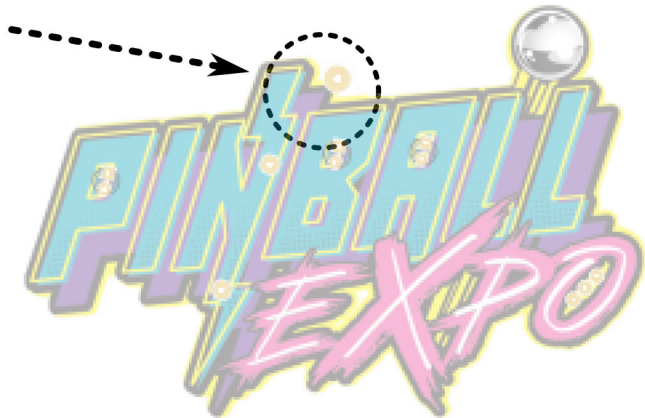


Do not remove clasp at this time.
Use cutters to remove the
"spike" from the tack.

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

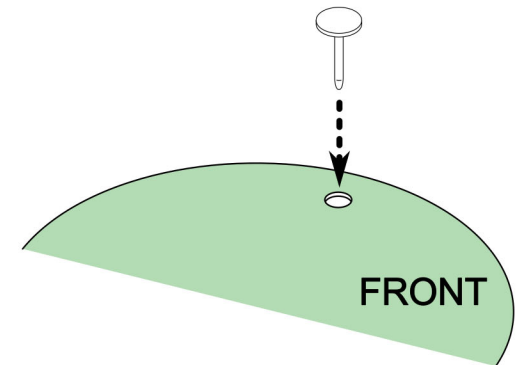


Remove tack from clasp
by squeezing sides.

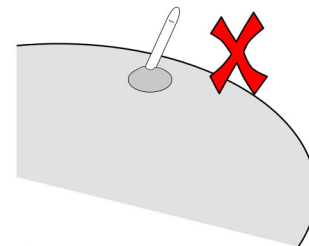
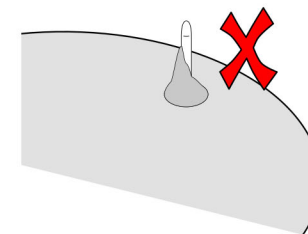
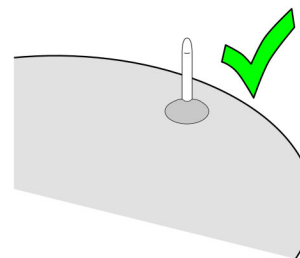
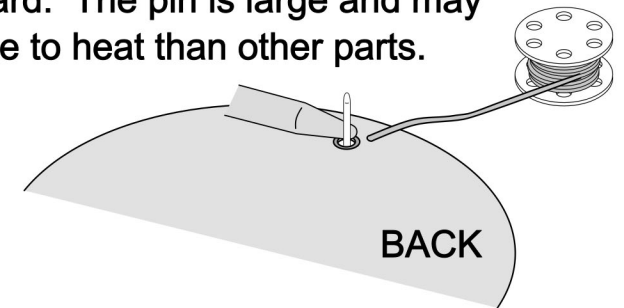


Insert tack from
front of board.

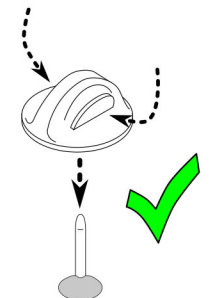
Make sure it
lies flat.



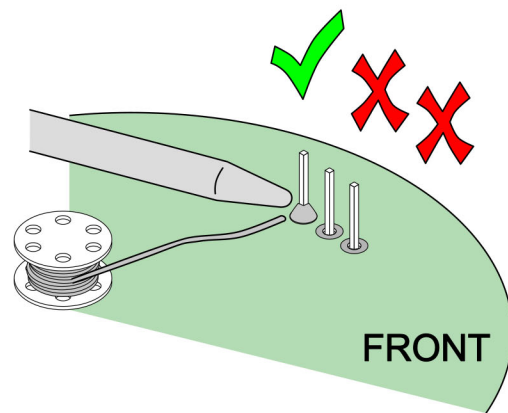
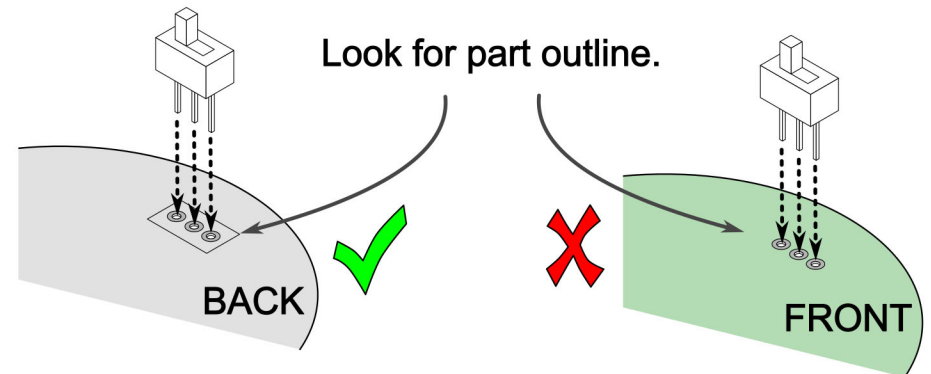
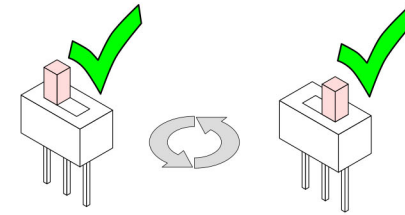
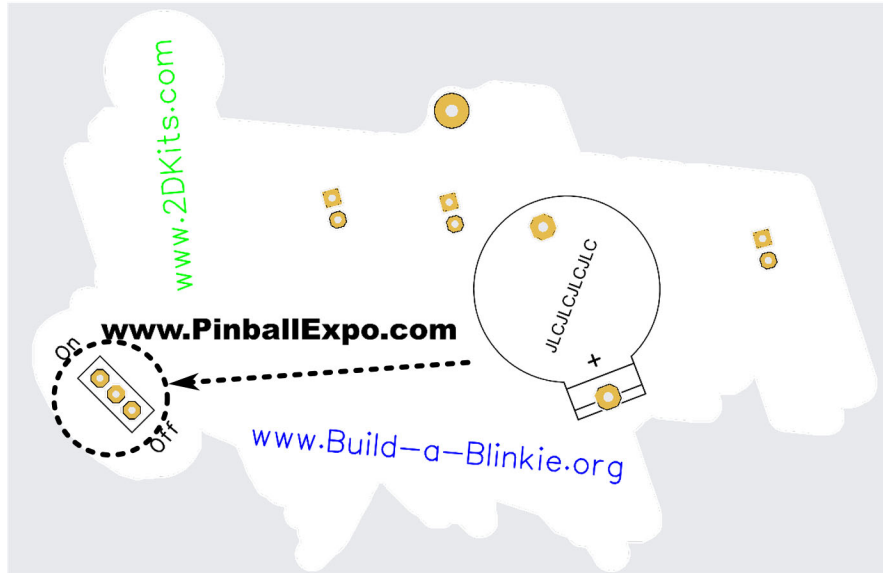
Solder pin to board. The pin is large and may
require more time to heat than other parts.



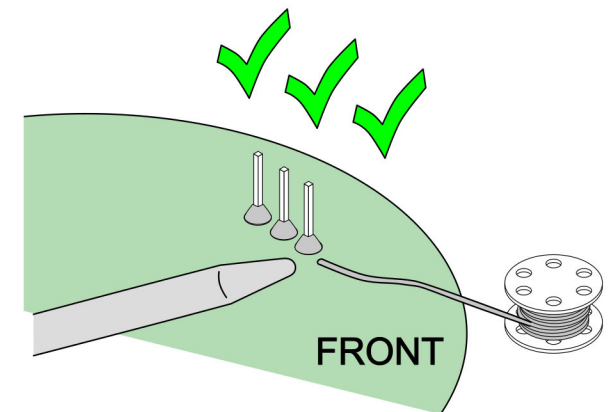
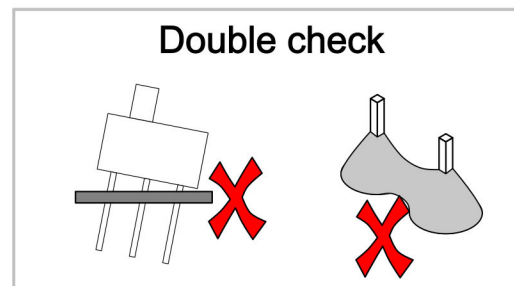
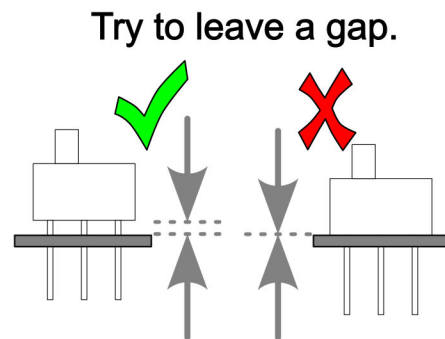
Replace tack from clasp
by squeezing sides.



Step 2: Switch

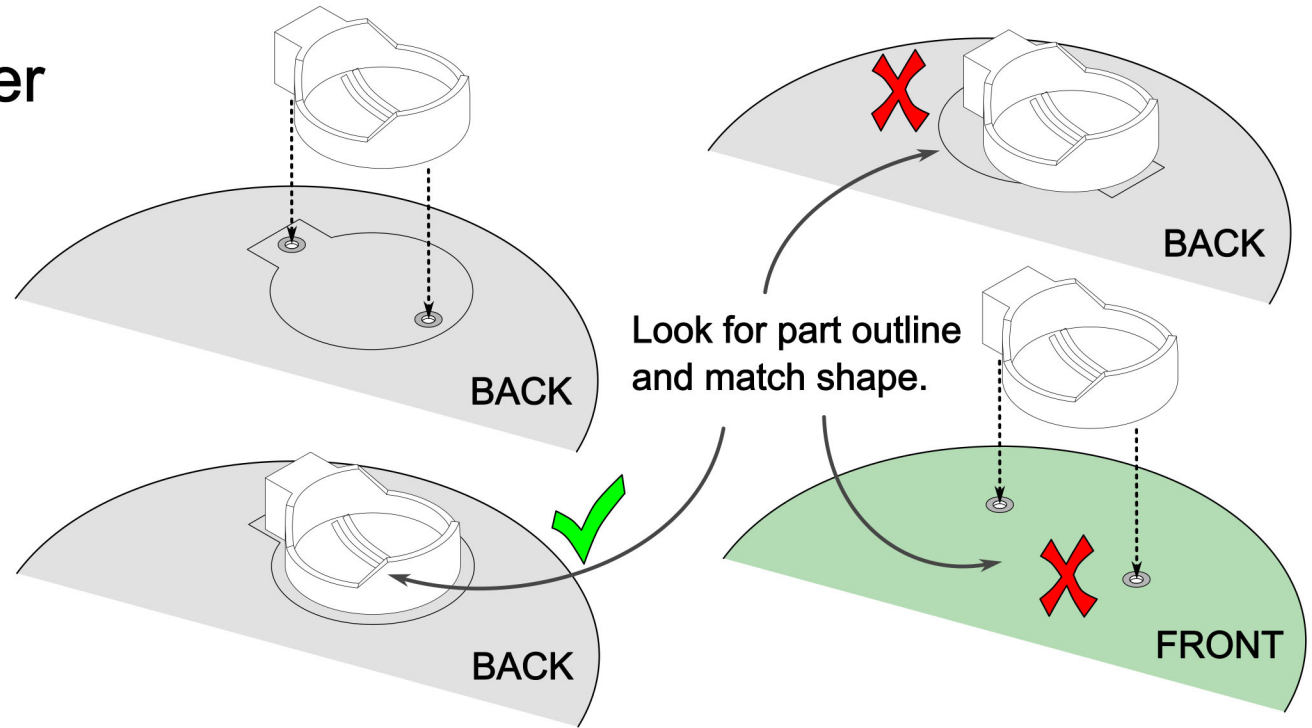
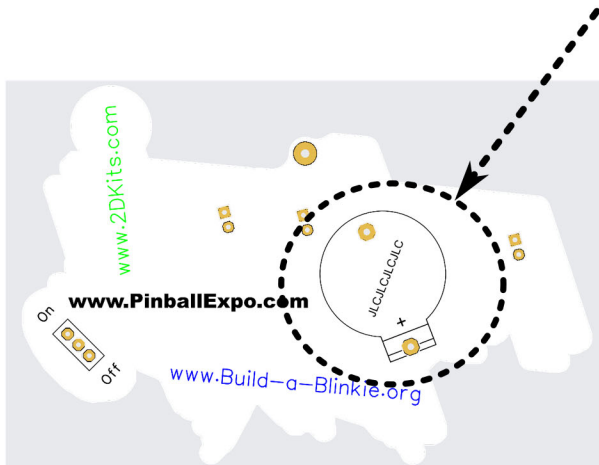


Solder *one* wire.

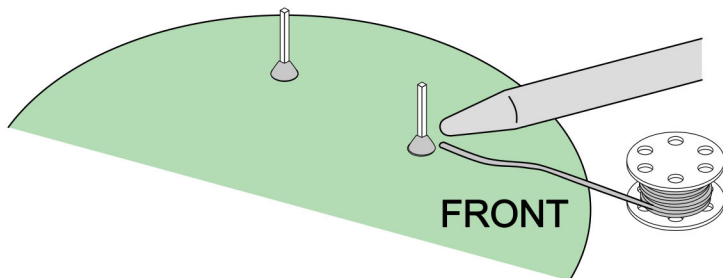


Solder remaining
two wires.

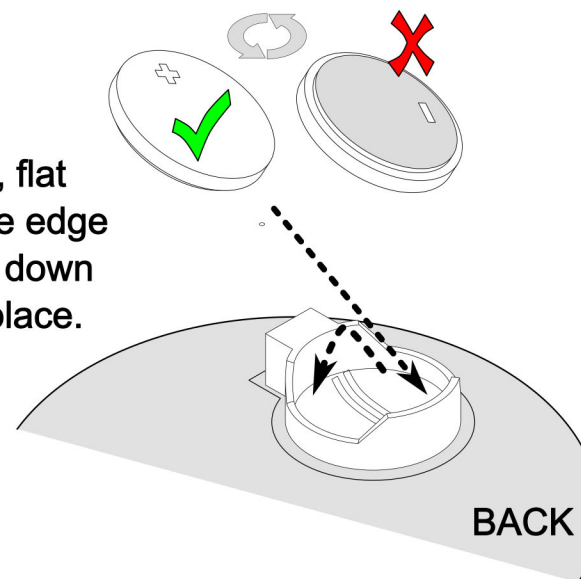
Step 3: Battery Holder



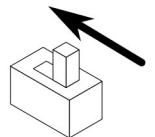
Solder battery holder.



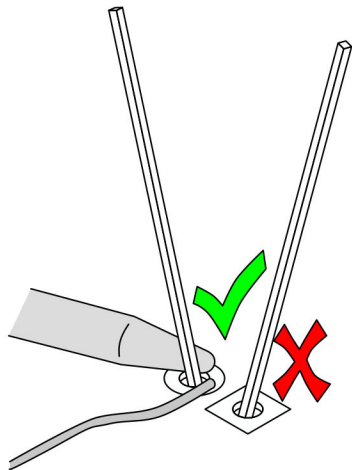
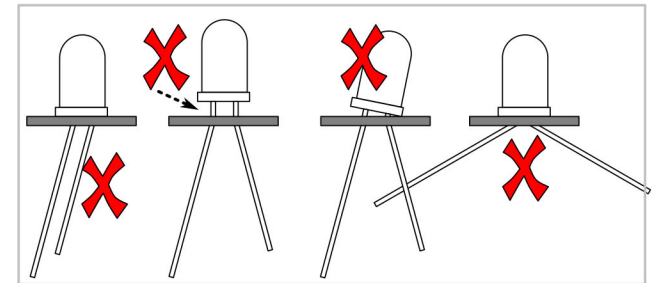
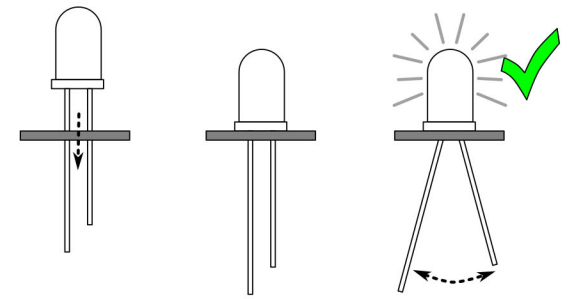
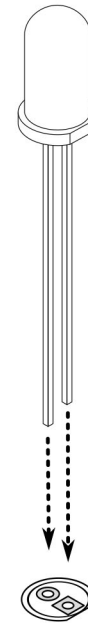
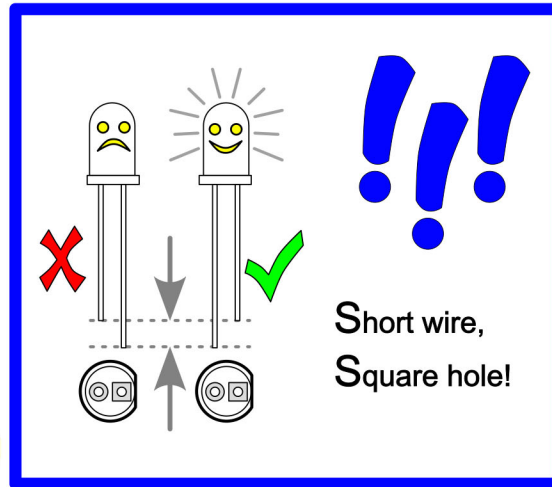
Insert battery, flat side up. Slide edge in, then push down to snap into place.



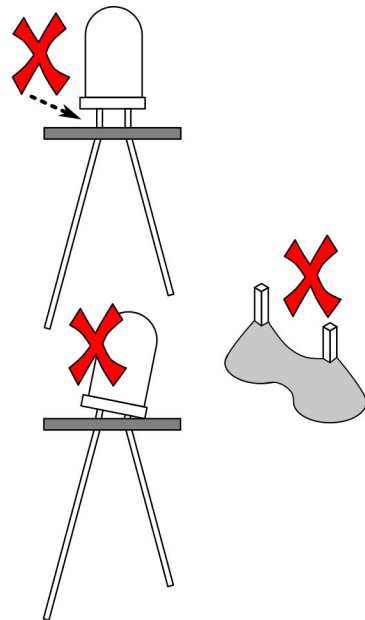
Turn switch ON.



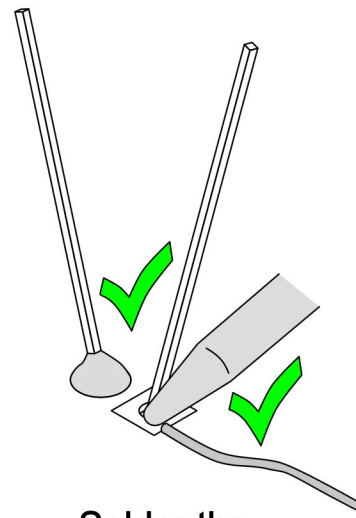
Step 4: LEDs



Solder one wire.

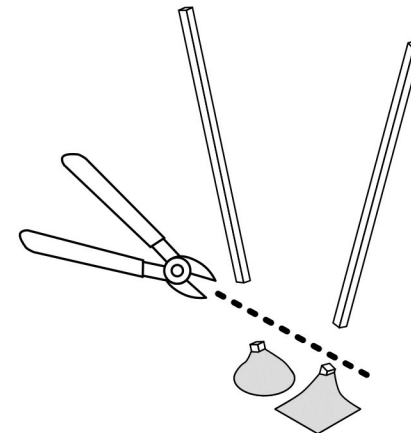


Fix any issues.



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 !**