

penguicon.org

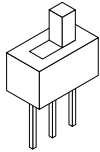
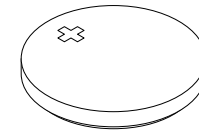
# Penguicon

www.2DKits.com

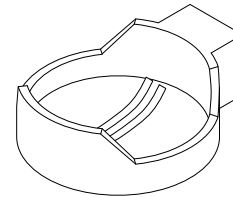
www.build-a-blinkie.org

## Parts List

Switch

Printed circuit  
board (PCB)

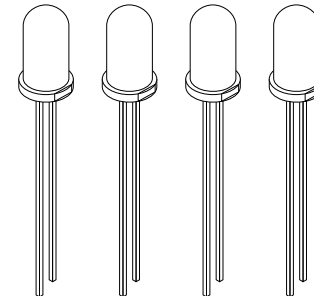
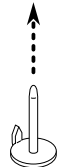
2032 battery



Battery holder

Tie tack clasp  
(packaged together)

Tie tack



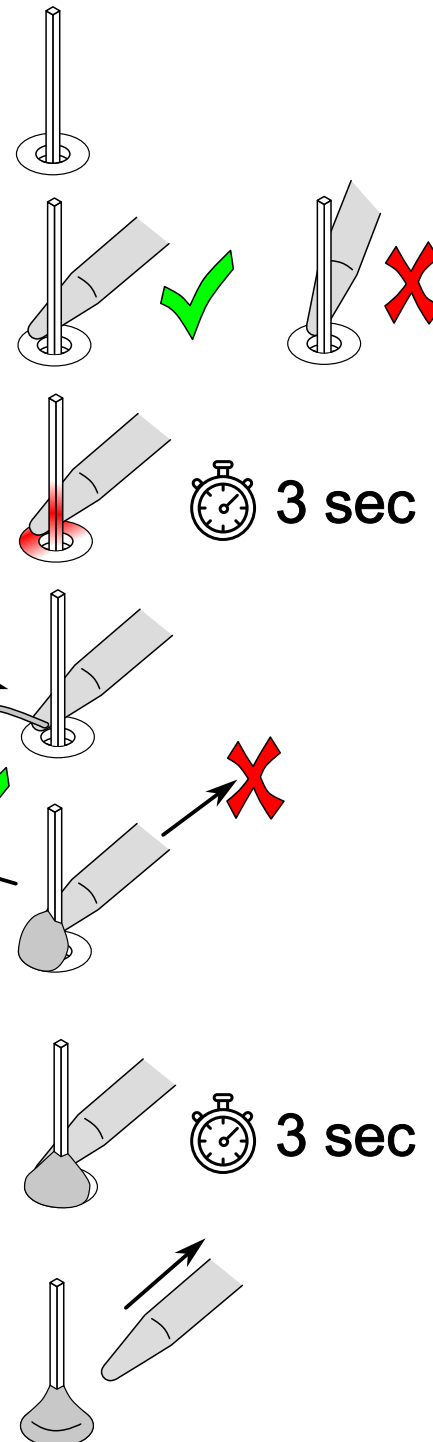
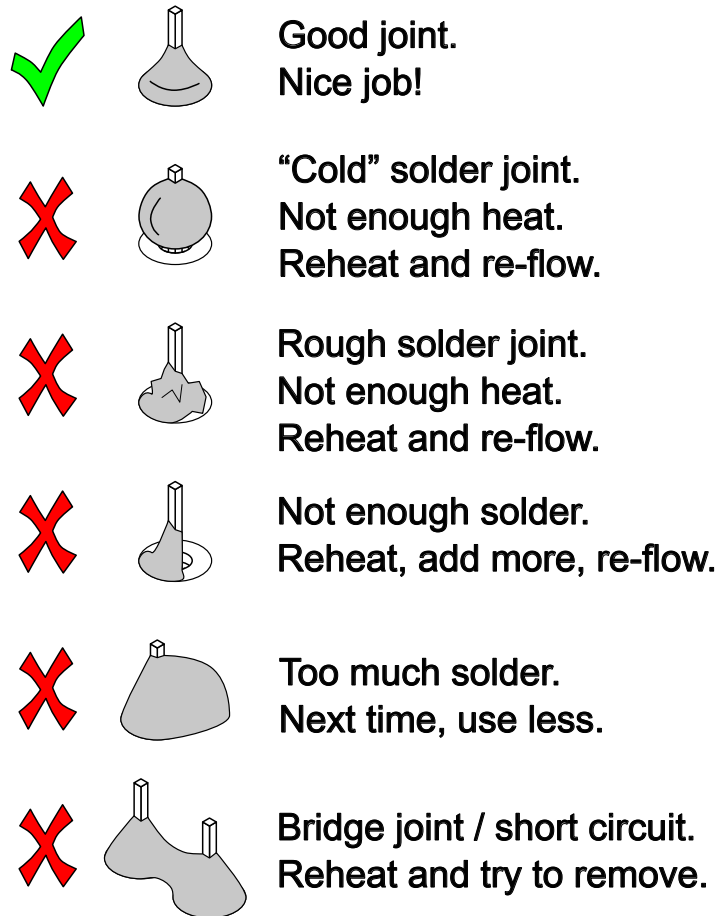
LEDs

**Need help? Please raise your hand.**

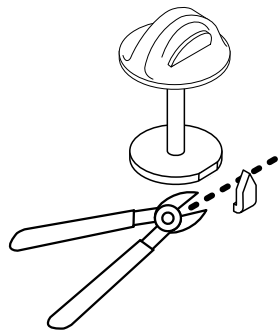
# How To Solder

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.

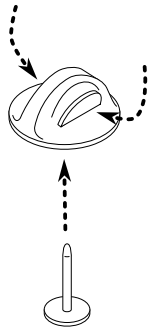


# Step 1: Tie Tack

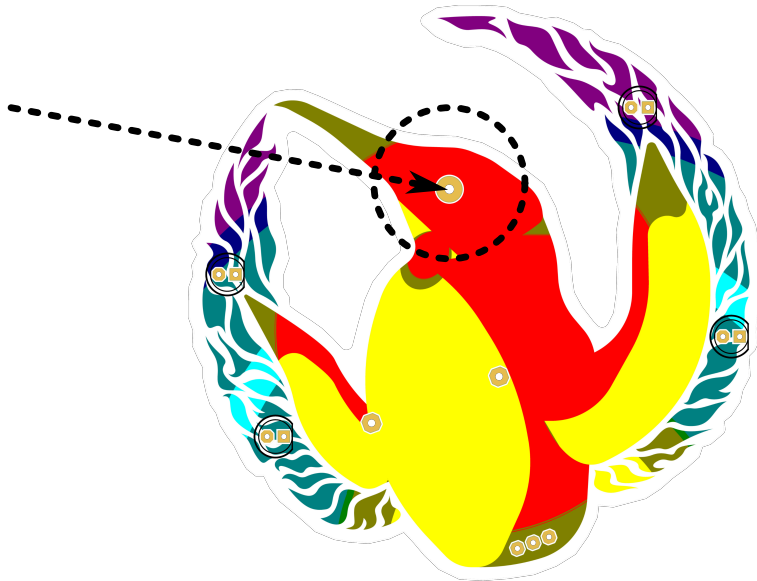


Do not remove clasp at this time.  
Use cutters to remove the  
"spike" from the tack.

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

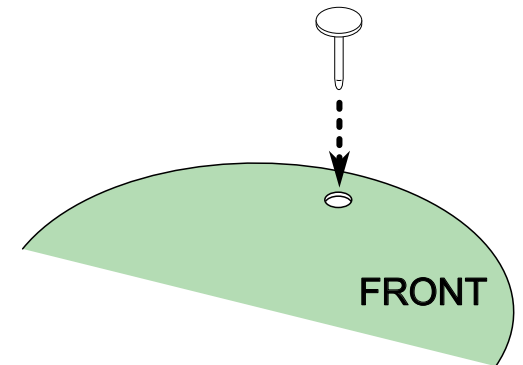


Remove tack from clasp  
by squeezing sides.

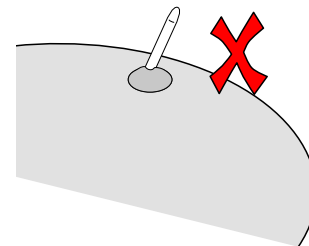
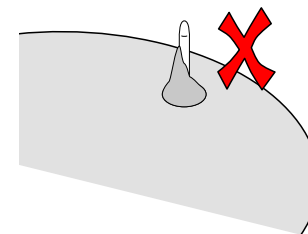
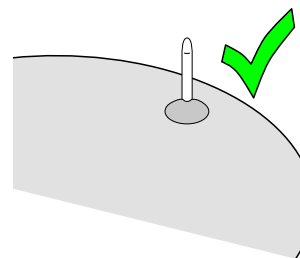
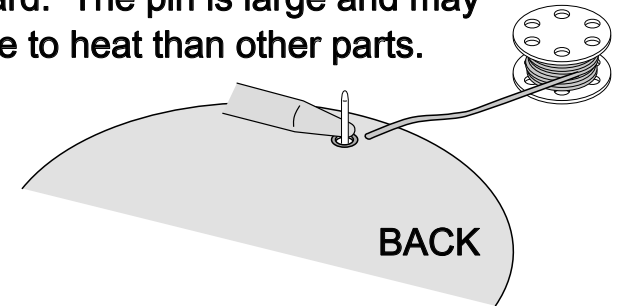


Insert tack from  
front of board.

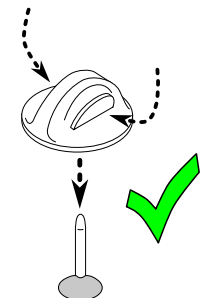
Make sure it  
lies flat.



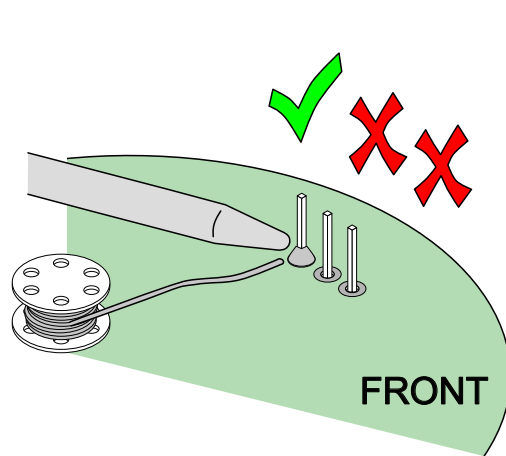
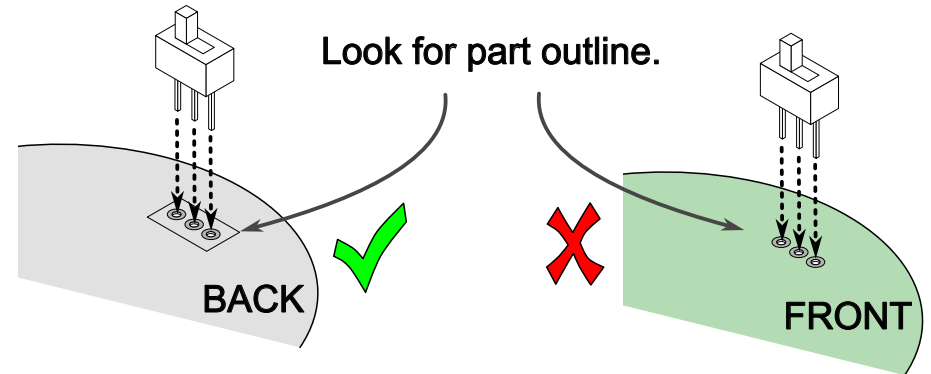
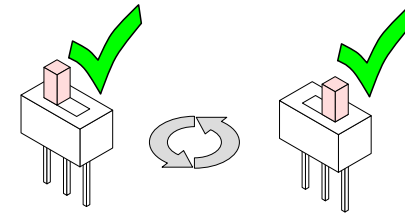
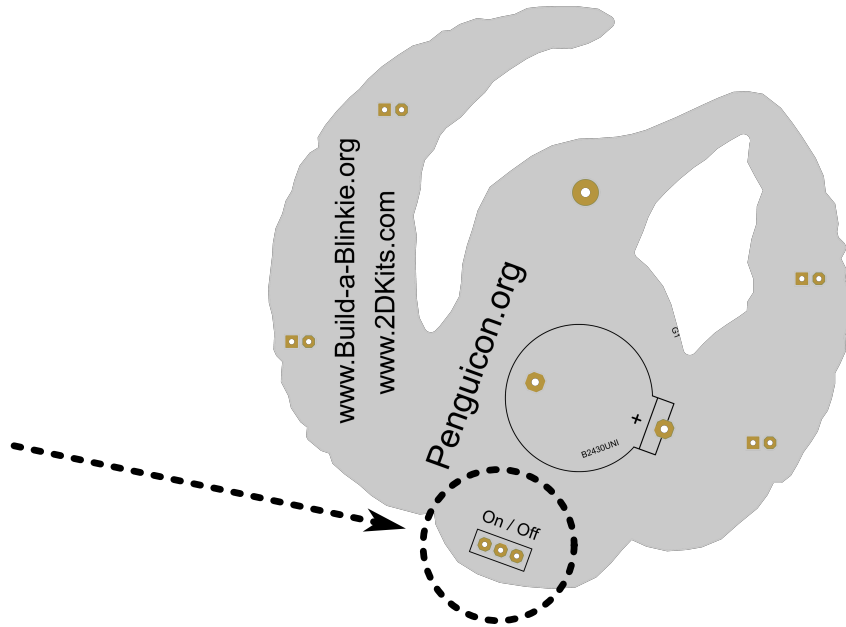
Solder pin to board. The pin is large and may  
require more time to heat than other parts.



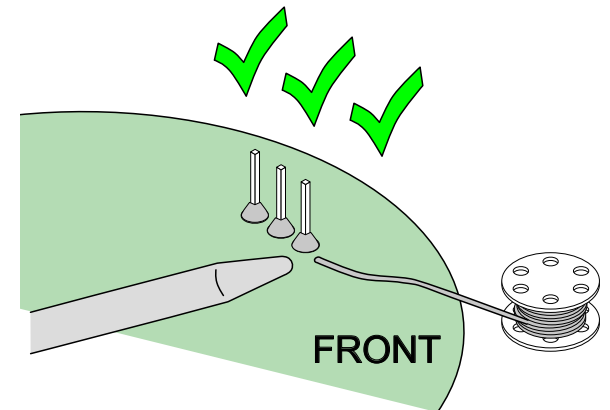
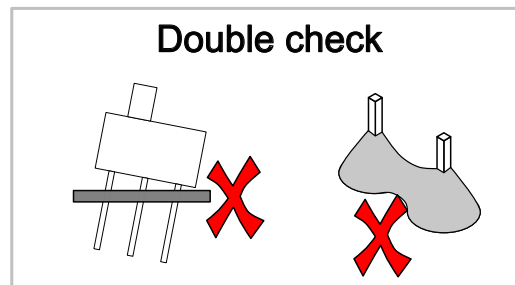
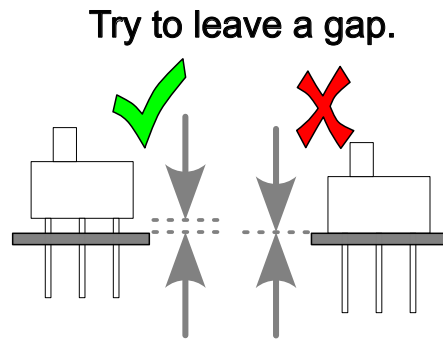
Replace tack from clasp  
by squeezing sides.



## Step 2: Switch

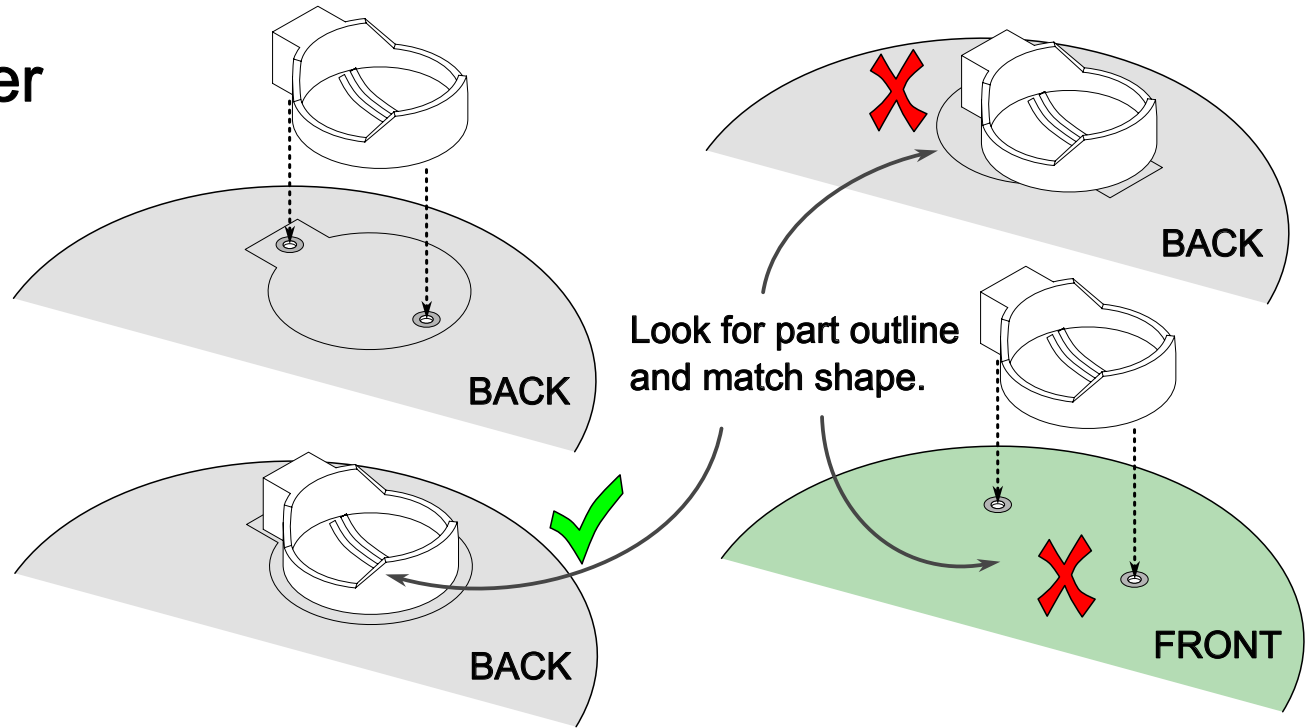
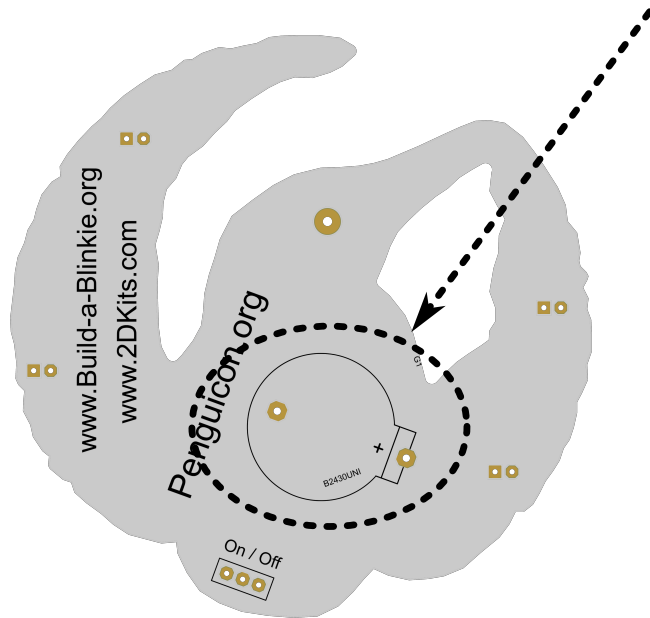


Solder *one* wire.

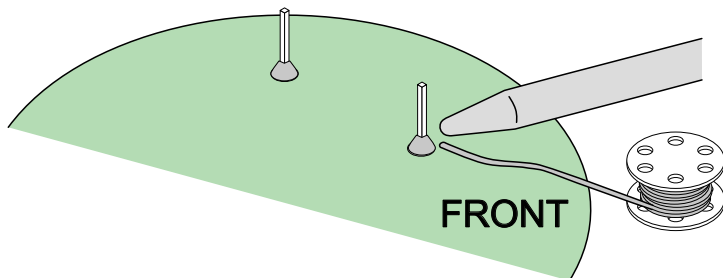


Solder remaining two wires.

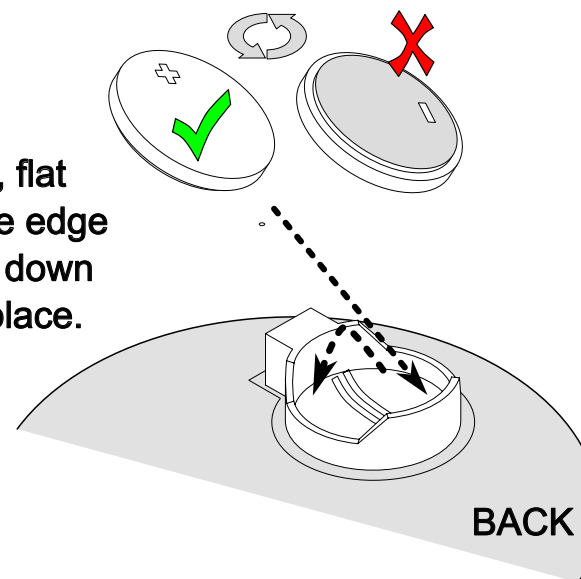
## Step 3: Battery Holder



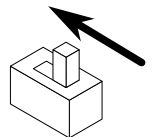
Solder battery holder.



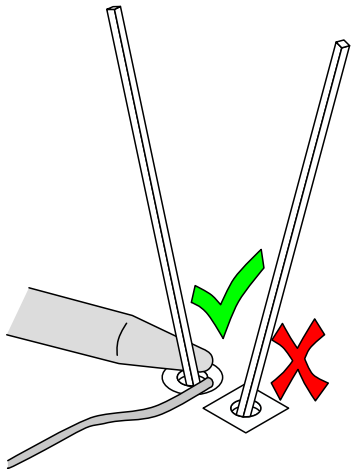
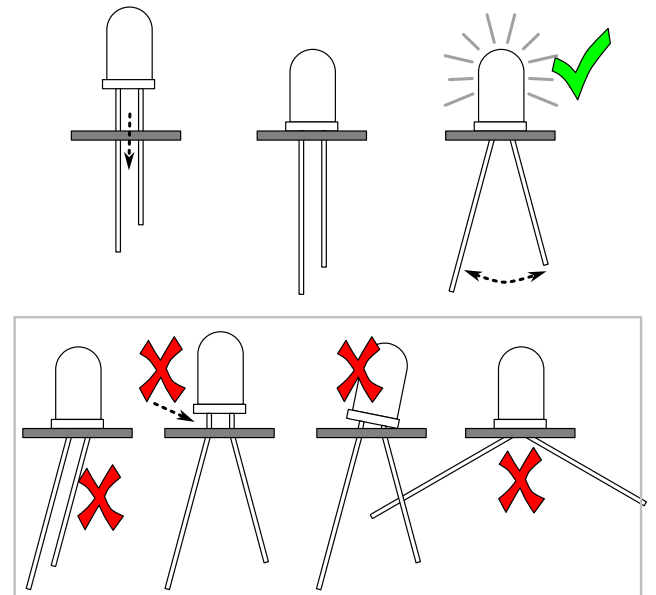
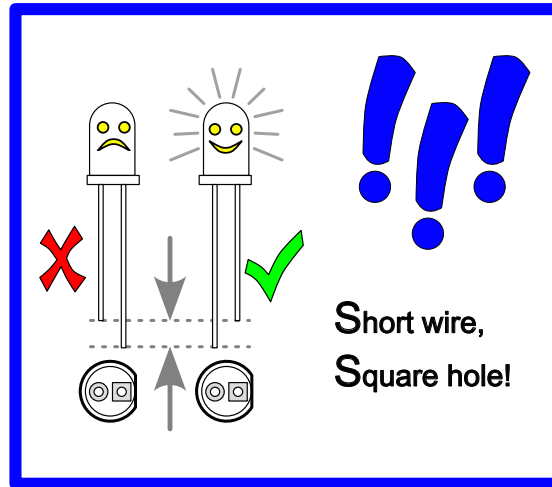
Insert battery, flat side up. Slide edge in, then push down to snap into place.



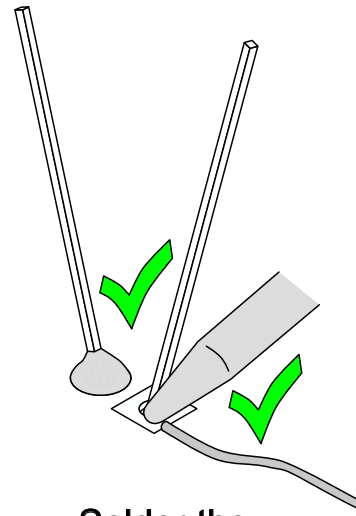
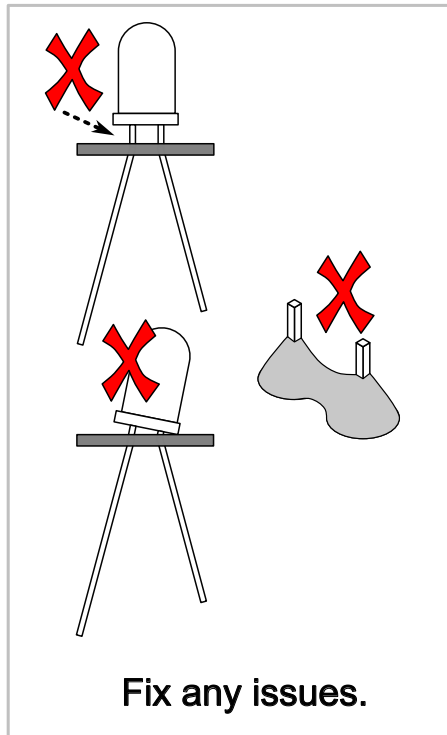
Turn switch ON.



## Step 4: LEDs

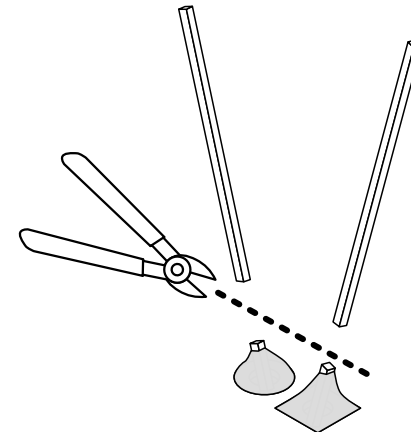


Solder one wire.



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 !**