

Blink

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Parts List

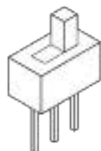
Tie tack clasp
(packaged together)



Tie tack



Switch



Printed circuit
board (PCB)



2032 battery



Battery holder



RGB LED (1x)

Need help? Please raise your hand.

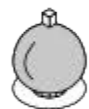
How To Solder

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.



Good joint.
Nice job!



"Cold" solder joint.
Not enough heat.
Reheat and re-flow.



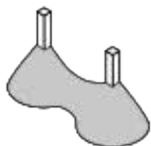
Rough solder joint.
Not enough heat.
Reheat and re-flow.



Not enough solder.
Reheat, add more, re-flow.



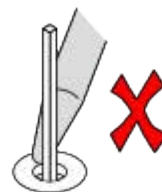
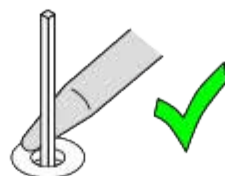
Too much solder.
Next time, use less.



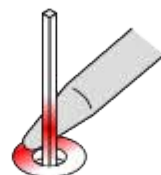
Bridge joint / short circuit.
Reheat and try to remove.



Insert and align part.

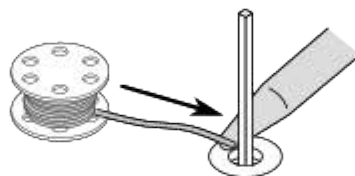


Touch iron to part
wire *and* PCB pad.

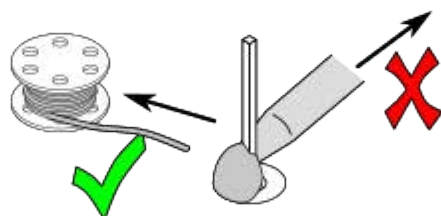


3 sec

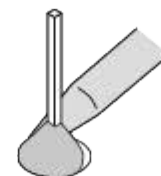
Heat wire and pad.



Melt about 1/2 inch
of solder into joint.

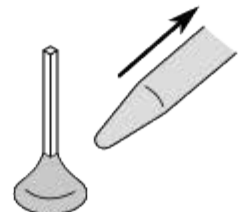


Remove solder.
DO NOT remove iron.



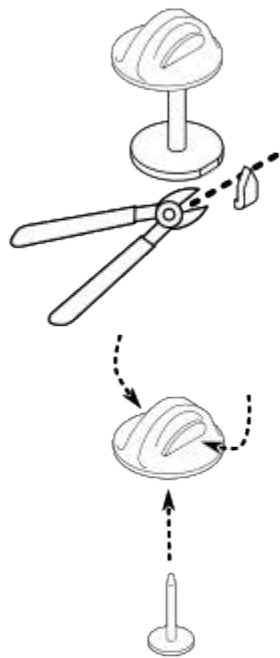
3 sec

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



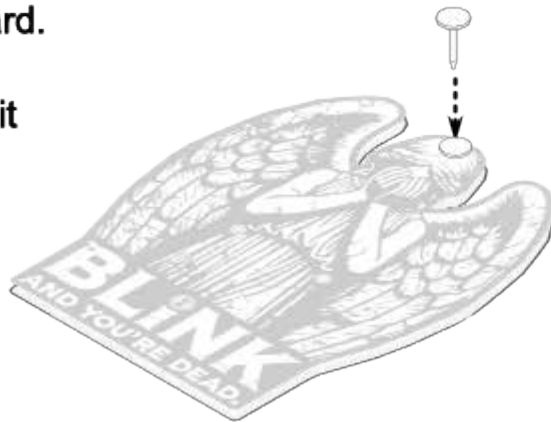
Do not remove clasp at this time.
Use cutters to remove the
"spike" from the tack.

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

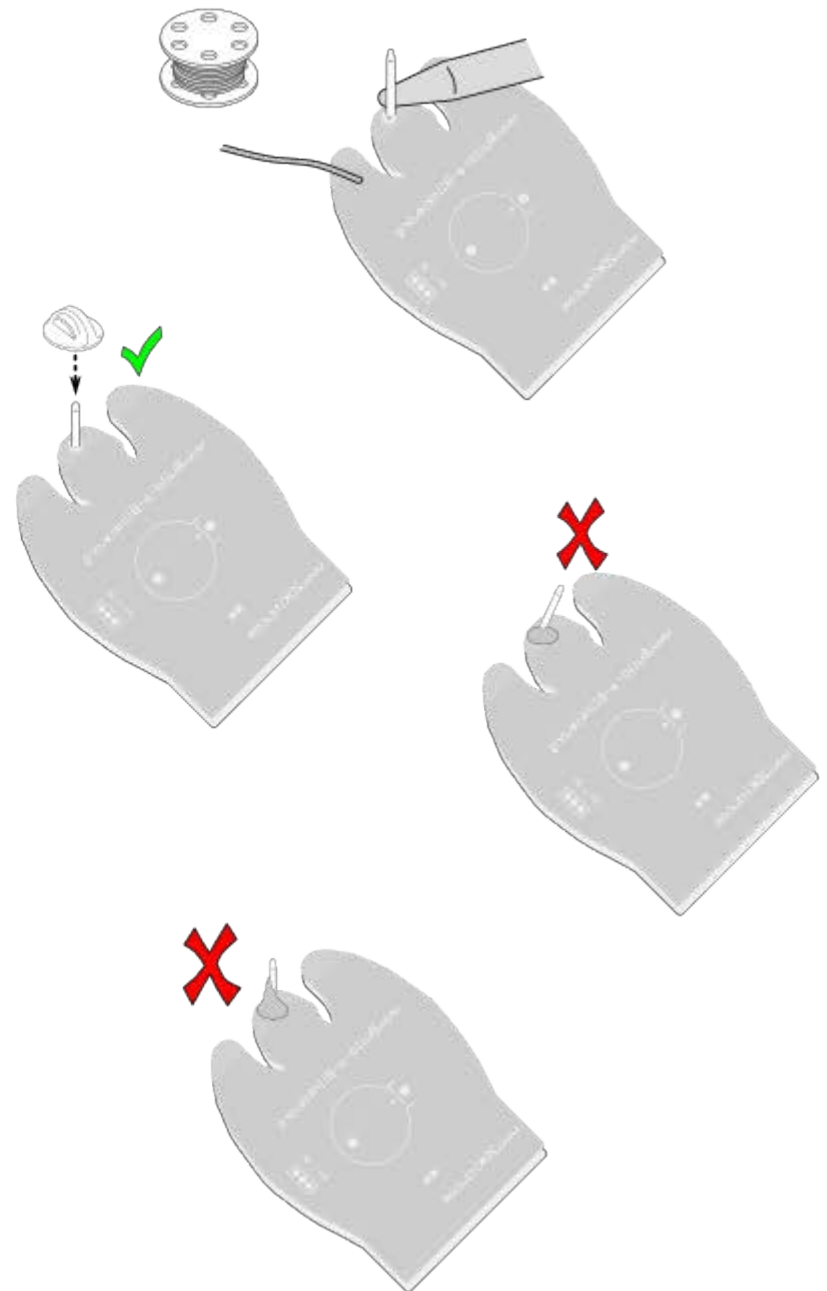
Remove tack from clasp
by squeezing sides.

Insert tack from
front of board.

Make sure it
lies flat.

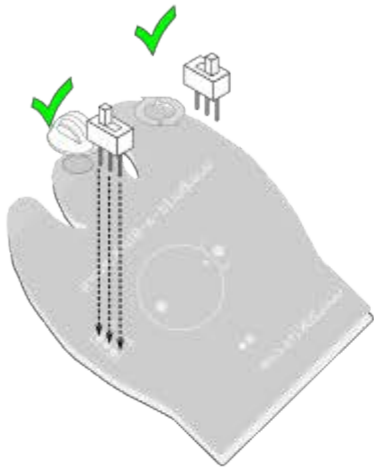
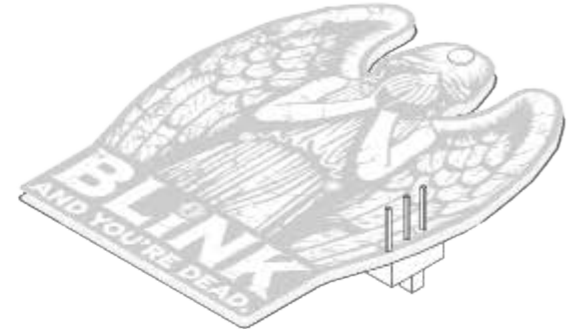
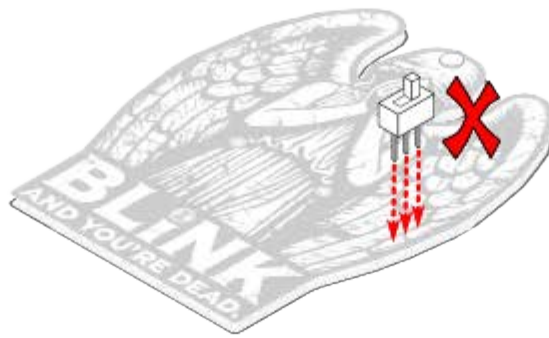


Solder pin to board. The pin is large and may
require more time to heat than other parts.

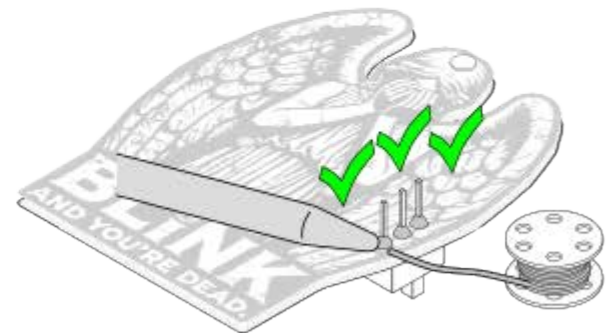
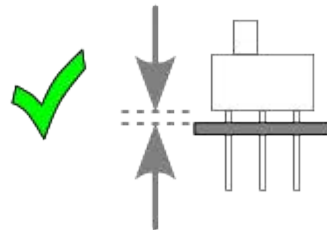


Step 2: Switch

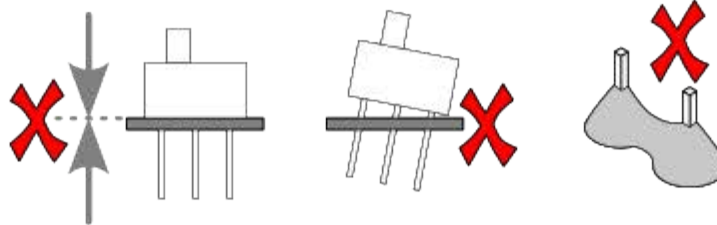
Wrong side



Double check

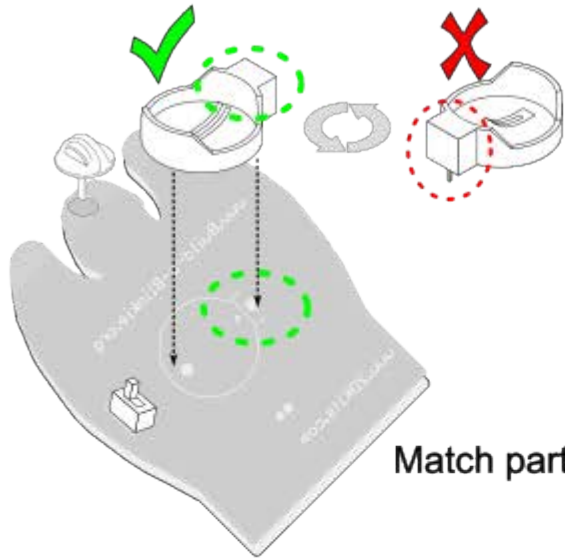


Solder one wire.



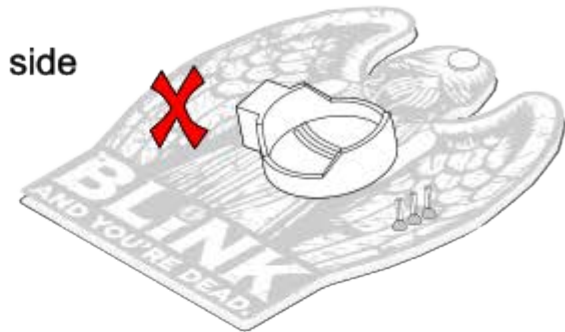
Solder remaining two wires.

Step 3: Battery Holder

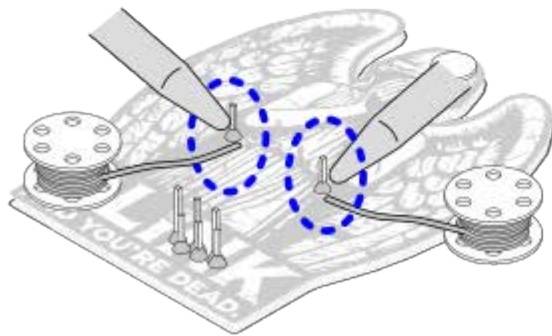


Match part outline on board.

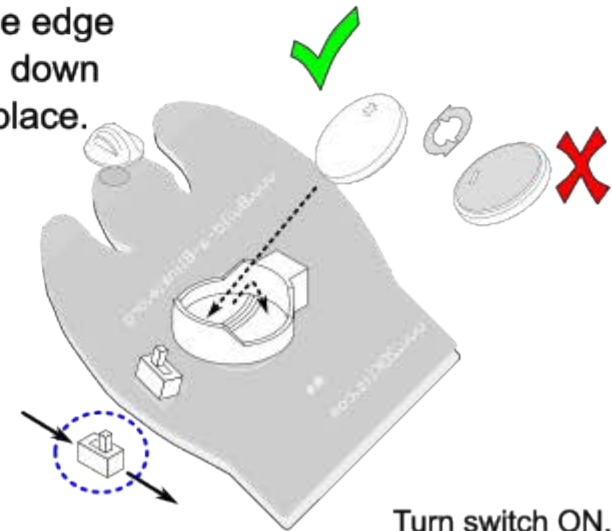
Wrong side



Solder battery holder.

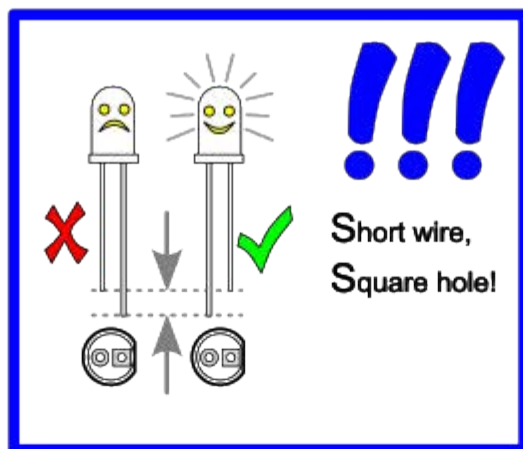
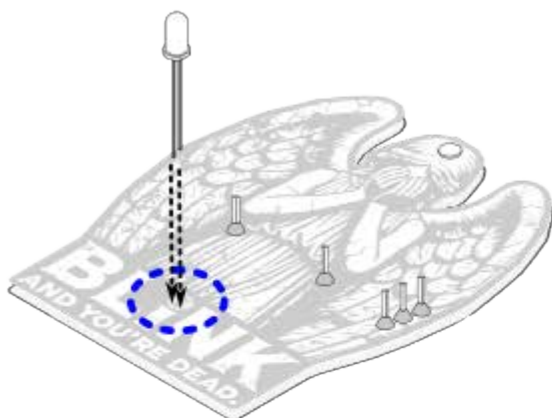


Insert battery, flat side up. Slide edge in, then push down to snap into place.

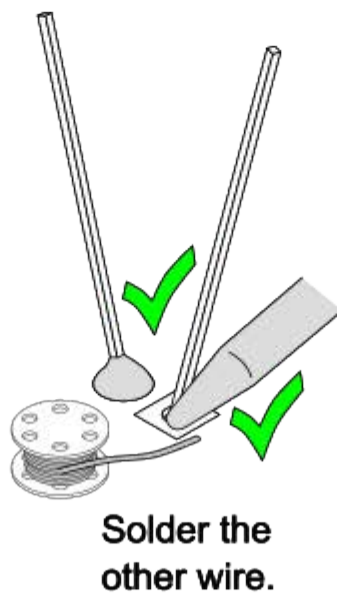
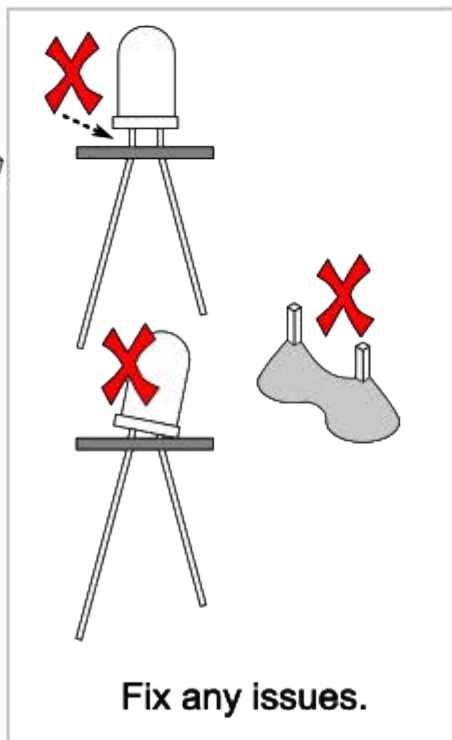
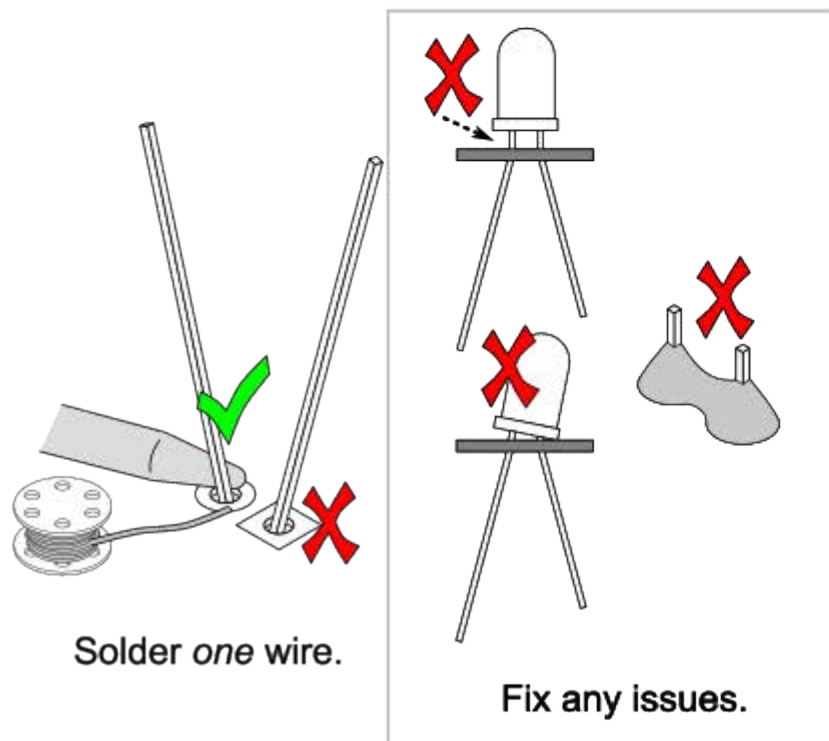
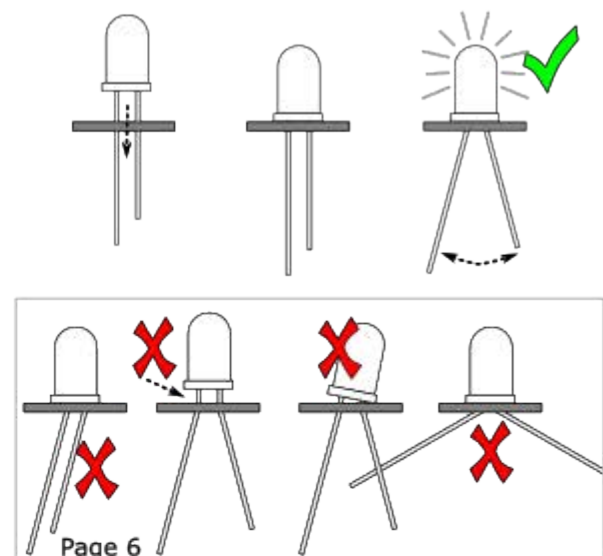


Turn switch ON.

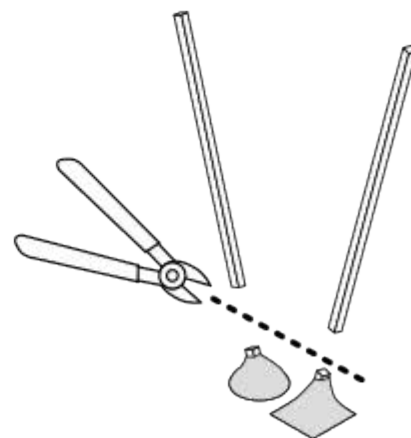
Step 4: LED



Install and solder the LED.



Once LEDs are working, trim wires.



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

**Return instructions !
Leave solder**