

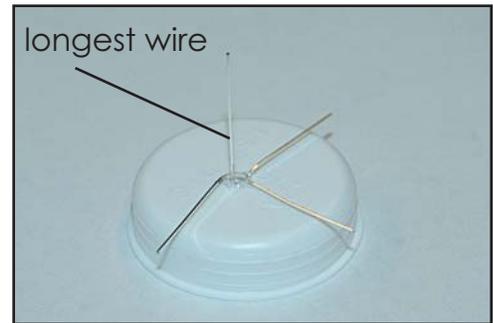
FLASHLIGHT CIRCUIT INSTRUCTIONS

Follow these instructions to build your flashlight circuit.

Step 1:

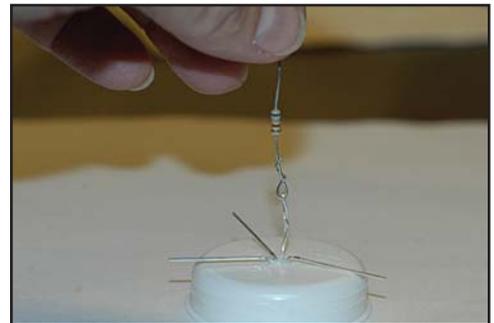
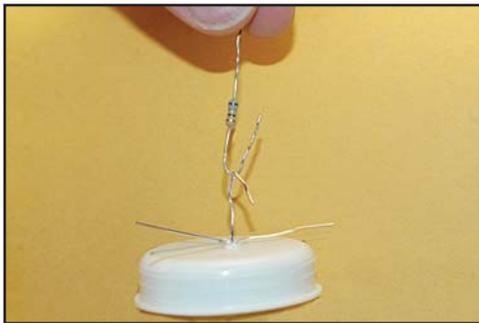
Push the LED wires through the hole in the plastic cap.

Leaving the longest of the 4 wires straight, bend the other wires away from each other and flat against the plastic cap.



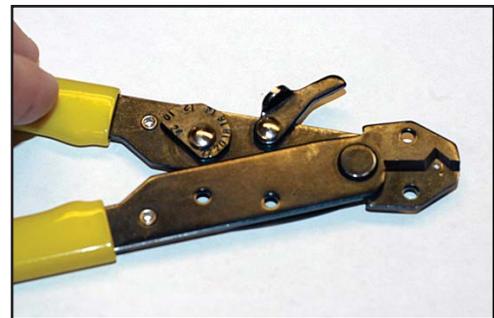
Step 2:

Bend the longest LED wire into a hook. Bend one end of the resistor wire into a hook; splice this to the LED wire hook. Twist each.



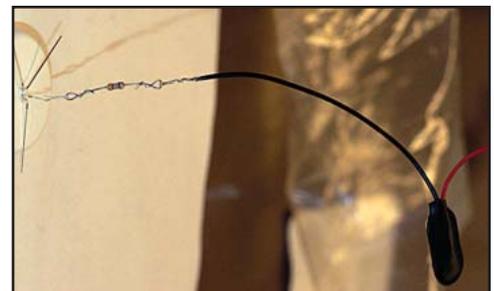
Step 3:

Wire stripping - using the 22ga size on the wire strippers, remove one inch of insulation from both the red and black wires from battery snap.



Step 4:

Make a hook on the unattached end of the resistor wire; make a loose hook on the black wire of the battery snap; splice the resistor to the black wire.



Step 5:

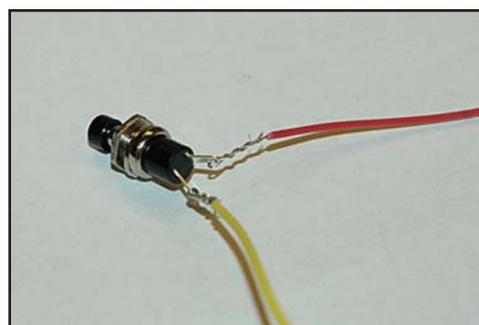
Feed the red wire through the small hole in ONE prong of switch. Bend the exposed wire in half, into a hook. Twist the loose tail of the wire back around the other half; connect metal to metal as many times as possible.

Step 6:

Wire stripping - using the 22ga size on the wire strippers, remove about one inch of insulation off of each end of the yellow wire.

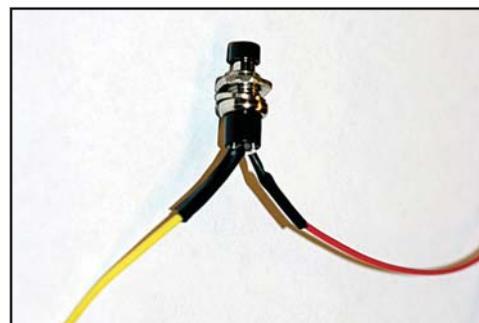
Step 7:

Feed the yellow wire through the small hole in the remaining prong of the switch. Bend the exposed wire in half, into a hook. Twist the loose tail of the wire back around the other half of the wire as many times as possible.



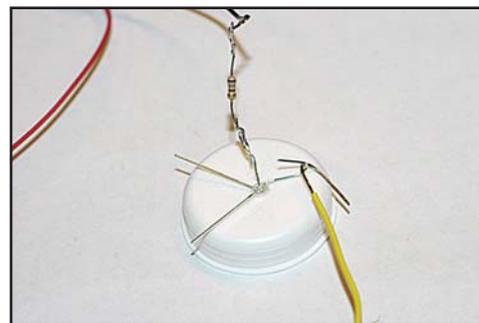
Step 8:

Put electrical tape over each of the connections to the switch. Be sure to cover not just the wire, but the prongs as well.



Step 9:

Attach a battery and touch the free end of the yellow wire to each LED wire. Notice which colors appear and choose which one you like; splice that wire to the free end of the yellow wire.



Solder remaining connections and tape over the solder with electrical tape.