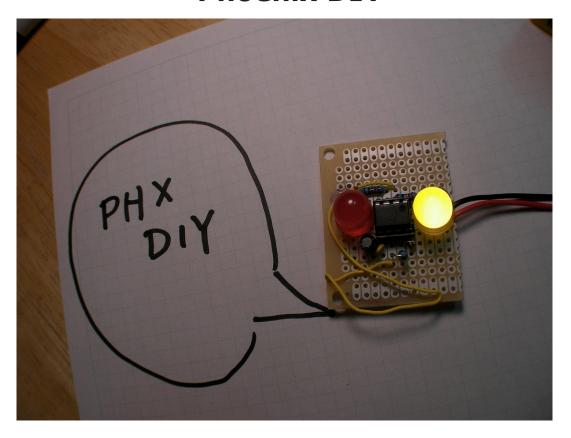
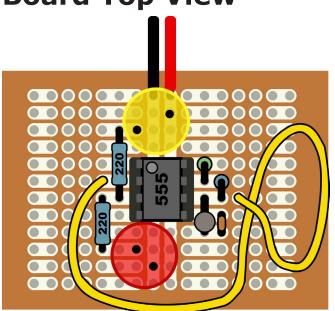
555 Timer Workshop Phoenix DIY

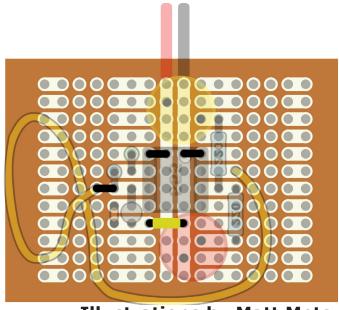


A 555 timer is a simple electronics component. We will learn to solder and assemble some simple parts to make two lights blink.

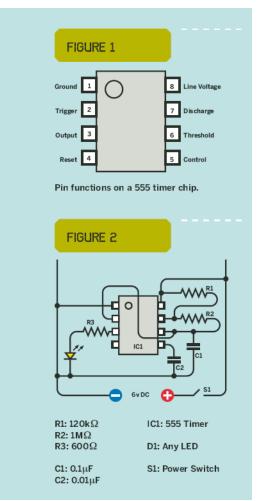
Board Top View



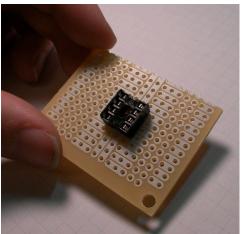
Board Bottom View



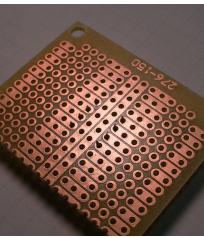
Illustrations by Matt Mets



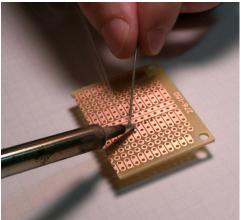
figures copyright Make Magazine issue 10, page 65

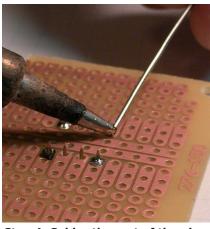


Step 1: Seat the chip carrier as shown, with the notch at that the top



Step 2: Flip board over and rest board on carrier





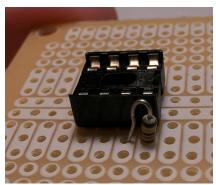
Step 3: Solder the first pin Step 4: Solder the rest of the pins, starting with the corners



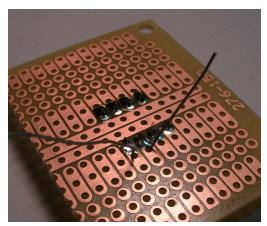
Step 5: check solder joints



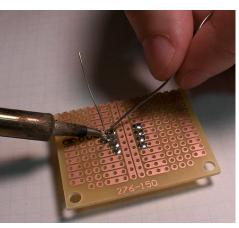
Step 6: bend resistor as shown



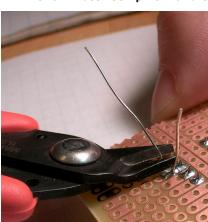
Step 7: Place resistor as shown between pins 7 and 8



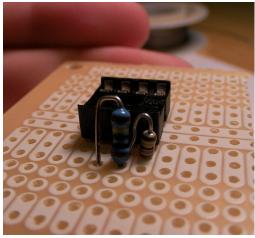
Step 8: Splay resistor leads to hold it in place



Step 9: Solder resistor leads



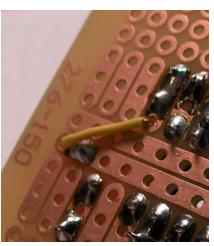
Step 10: Clip resistor leads close to board



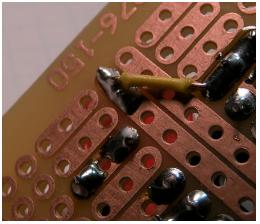
Step 11: Repeat steps 6 through 10 for other components, according to page 1



On polar components like LEDs and capacitors, the long lead is positive



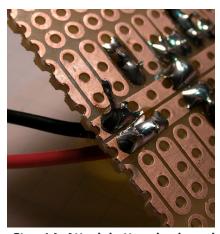
Step 12: Commplete wire bridge on underside



This is what it will look like soldered.
Watch out for shorts!



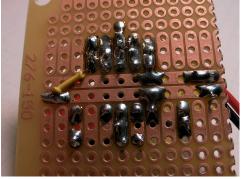
Step 13: Bridge pin 8 to power and bridge pin 1 to ground



Step 14: Attach battery leads. red is power, black is ground

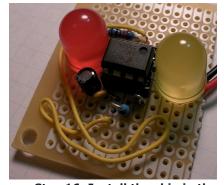


Step 15: Install wire from pins 2 to 6. We used a long one so we could make a face.



This is how the bottom should look.

3.0 United States License: http://creativecommons.org/



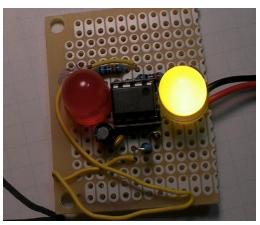
Step 16: Install the chip in the carrier. The small dot goes up.



licenses/by-nc-sa/3.0/us/

Photos by Becky Stern, more here: http://flickr.com/photos/bekathwia/sets/72157603784003392/

Illustrations by Matt Mets: cibomahto.com



Step 17: Plug in the battery and watch it blink!