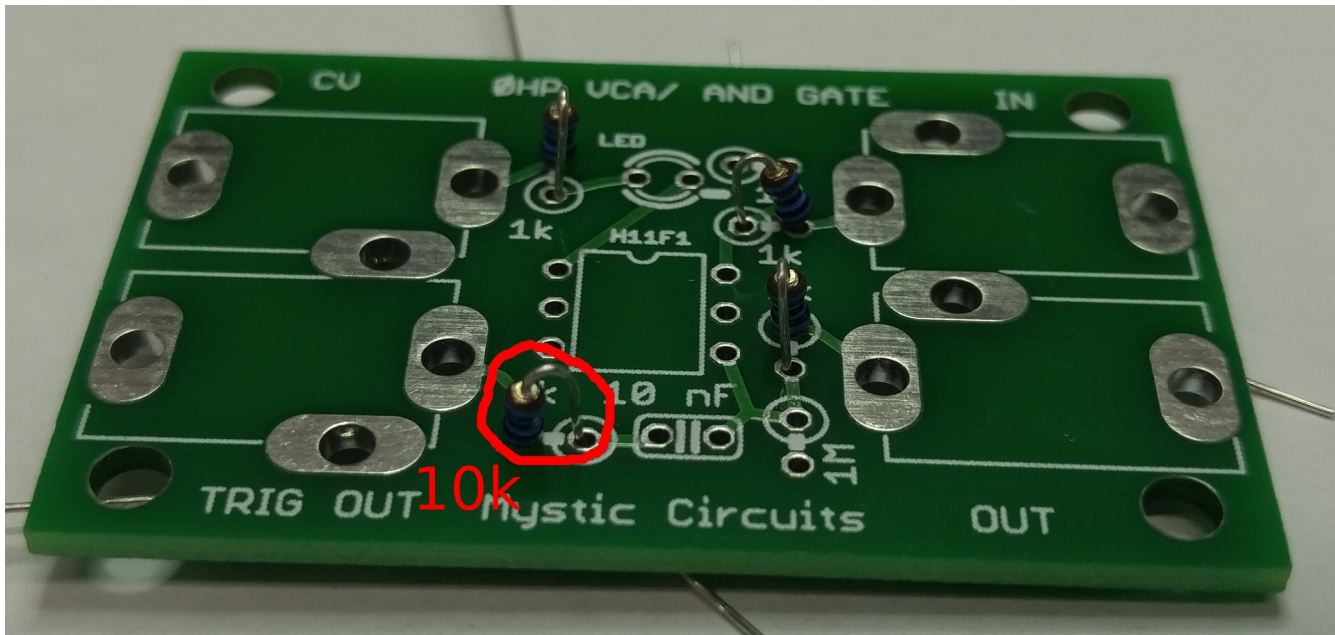


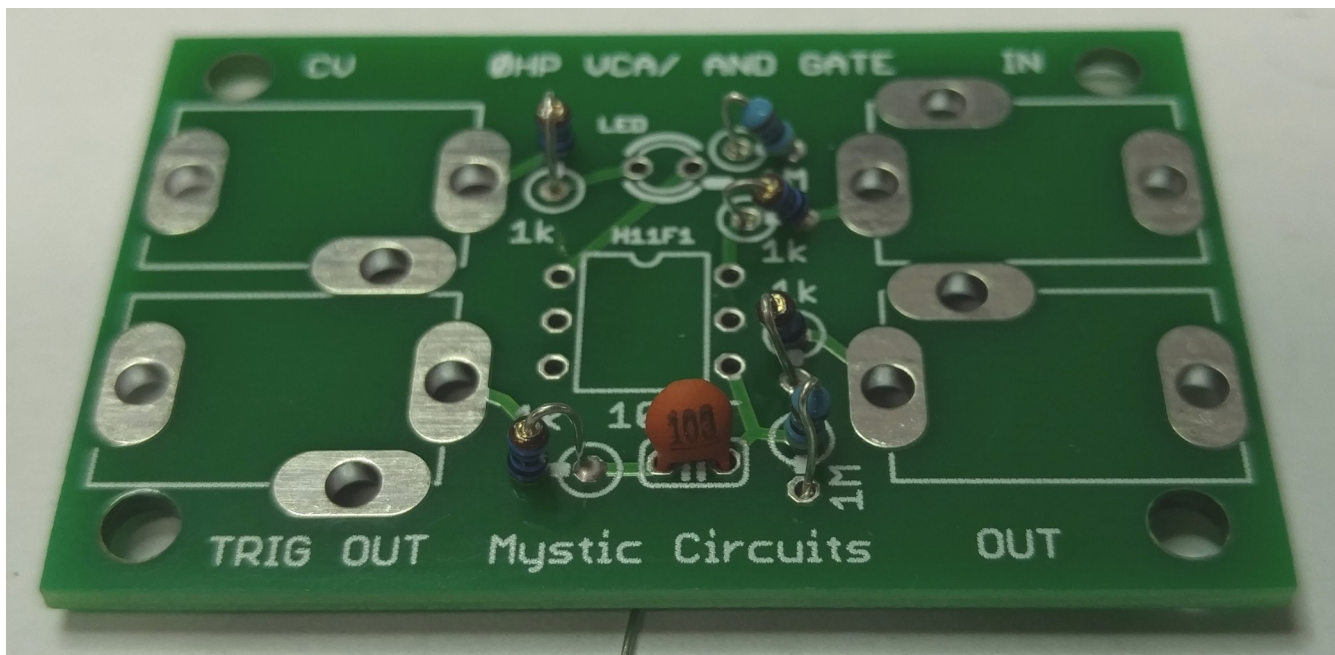
MYSTIC CIRCUITS 0HP AND GATE DIY INSTRUCTIONS ROUGH DRAFT

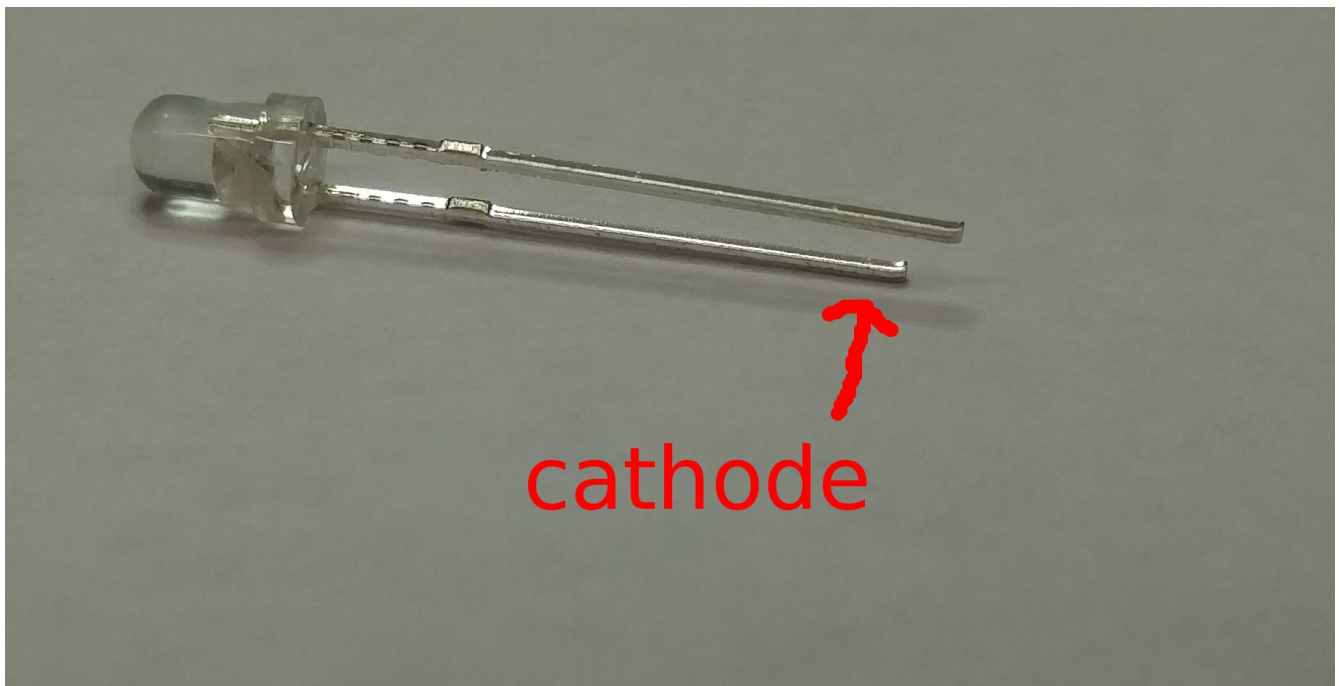
First things first there is an error in the marking for a value on the board so solder in this resistor first. It is marked as a 1k at the very bottom of the board closest to the 'TRIG OUT' jack but it should actually be a 10k. It's circled in the picture.



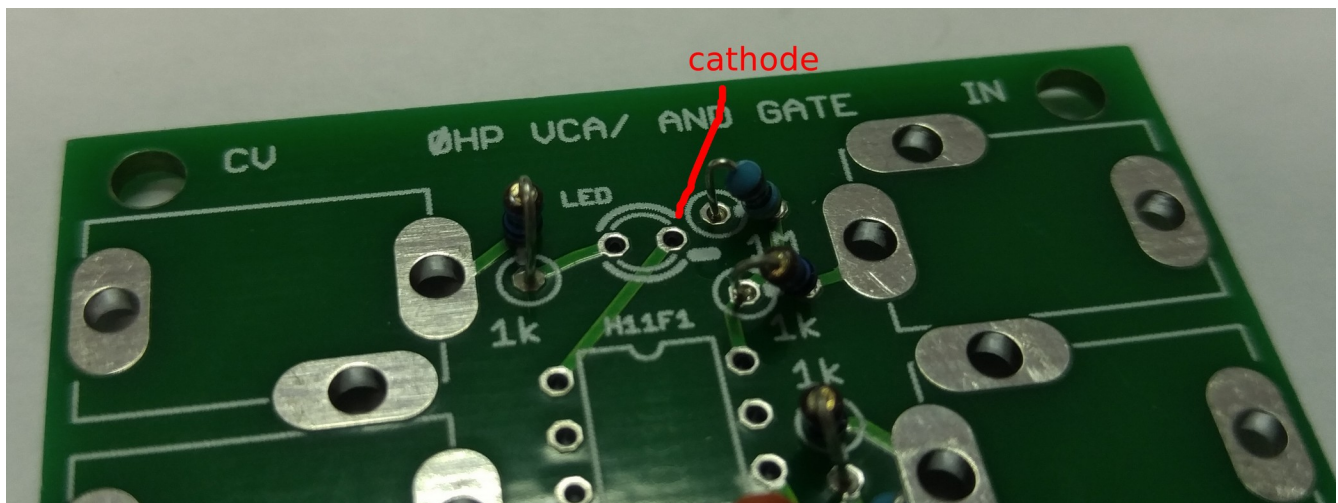
Next solder in the rest of the 1k resistors, there are three.

Next solder in the 1M resistors and the 10 nF capacitor.





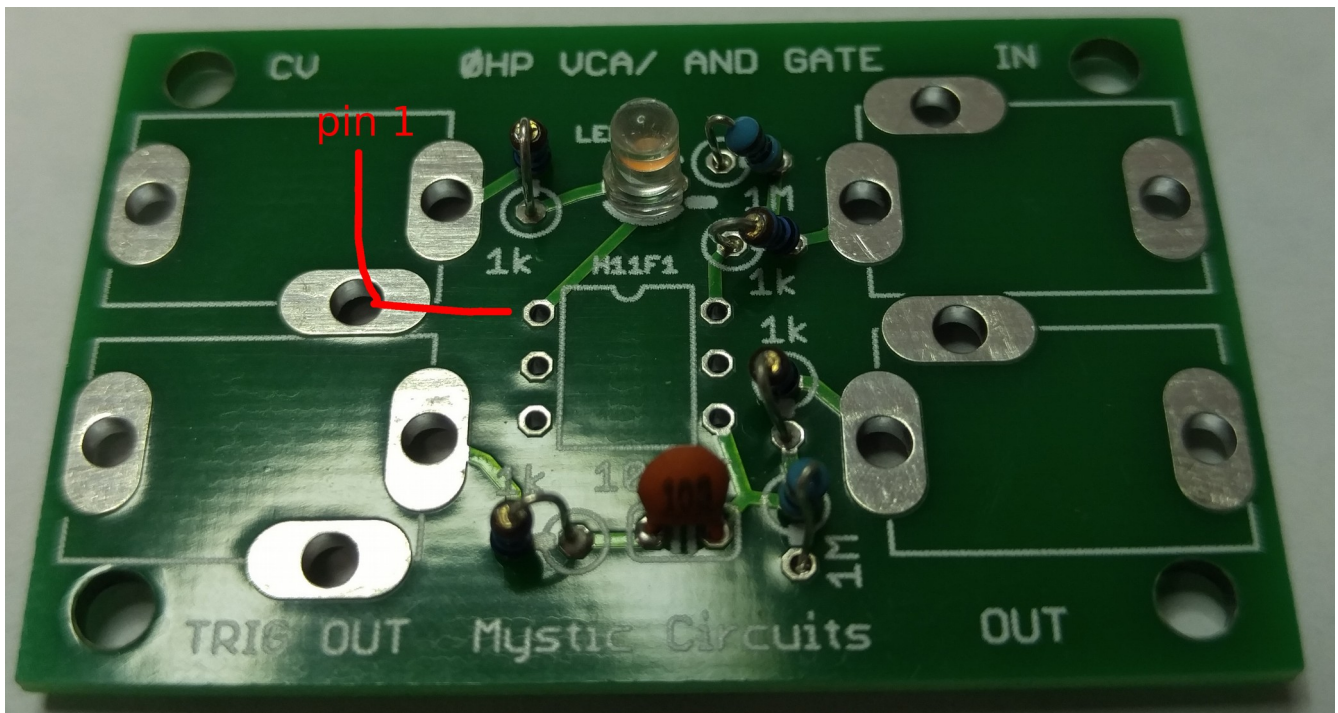
Next we are soldering in the LED whose orientation matters a lot so be sure to get this one right. The side of the LED with the shorter leg is called the 'cathode' and it goes to the minus sign on the LED footprint of the board. In this particular case it goes to the right, from the orientation where the text is all legible. Usually LEDs also have a little flat edge on this side so you can check it even after the LED is soldered into place.

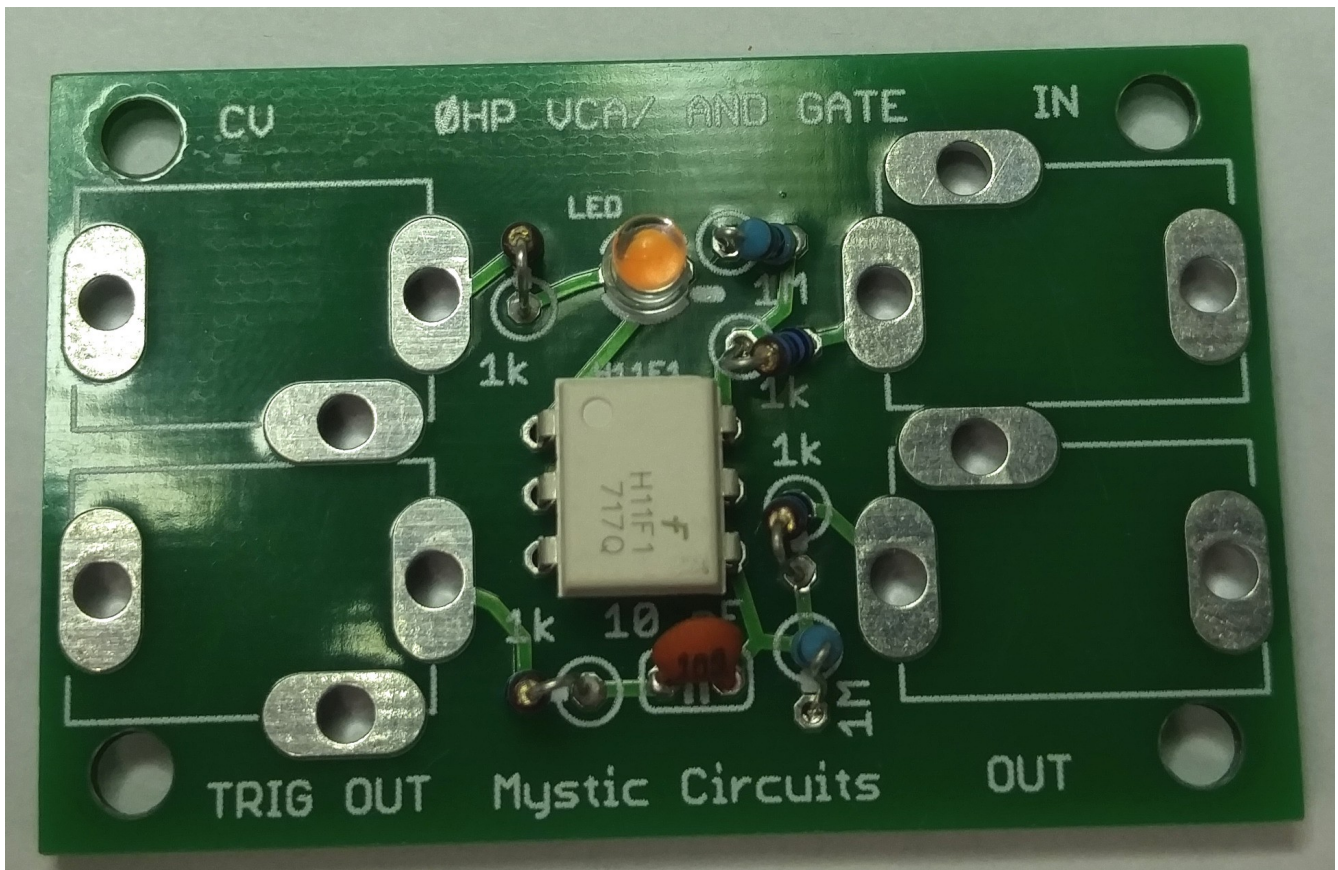


pin 1



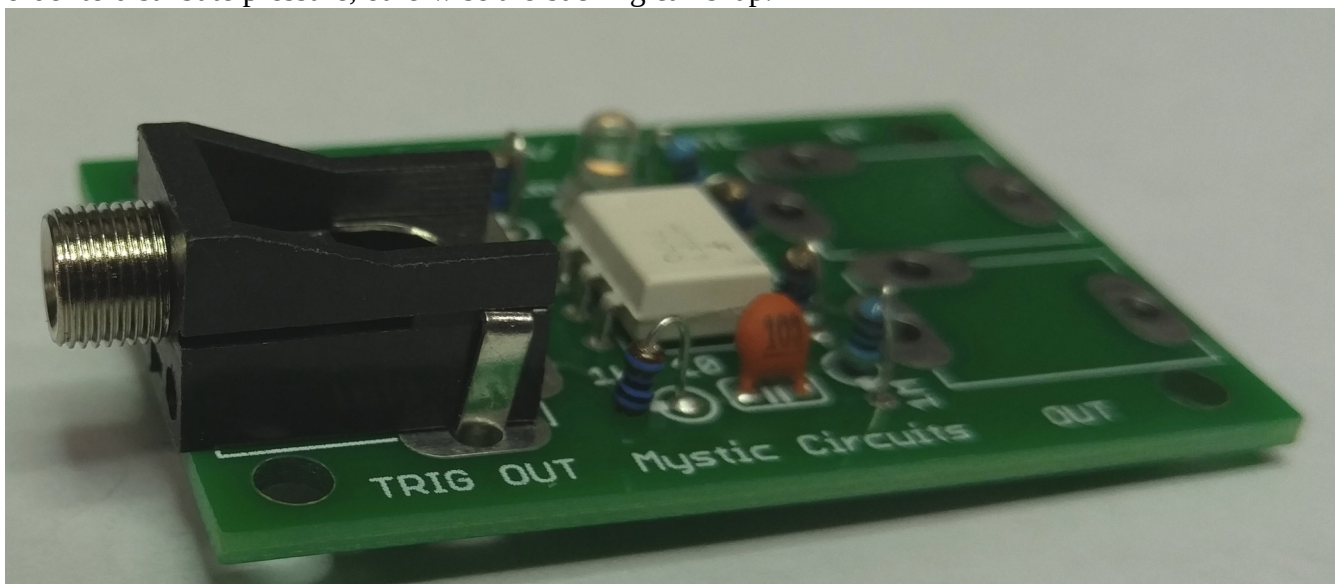
This is the optocoupler and it's orientation also matters quite a lot. Pin one on these cases is labeled with a little circle. The side with the circle goes in facing the "H11F1" text with the little semi circle cut out. I usually solder the corners on these chips, then check and make sure it is laying nice and flat, then I solder the rest of the pins.





Here is what the board should look like once all of the components are in. Notice the orientation of the little circle in the white chip as well as the flat side of the LED facing the minus sign on the board.

Below is one of the jacks placed in to the board. Place them all in and solder. Once that is done place the plastic standoffs in the board with the side that is more round going into the mounting holes on the circuit board. Then snap the acrylic backing in place, using two fingers to press in opposite corners in order to distribute pressure, otherwise the backing can snap.



That is everything! If you have any questions please contact me at Eli@MysticCircuits.com or comment in the muffwiggler DIY forum thread here:

<https://www.muffwiggler.com/forum/viewtopic.php?t=185982&highlight=>

