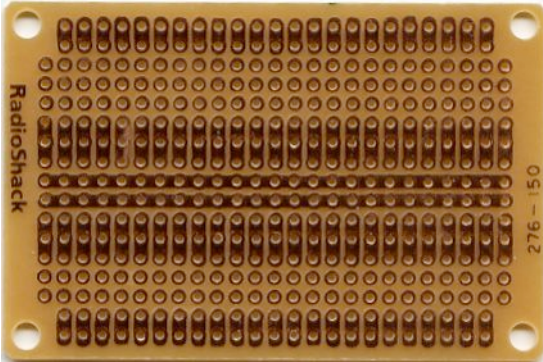
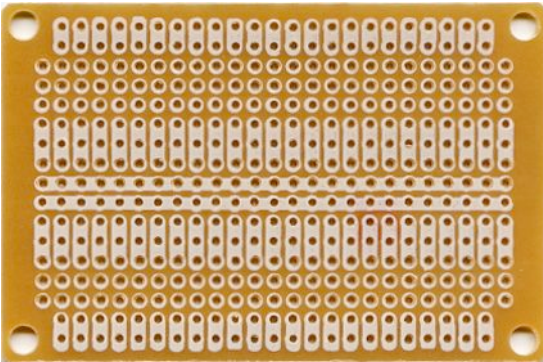


Elect 226 - 555 timer layout and build project

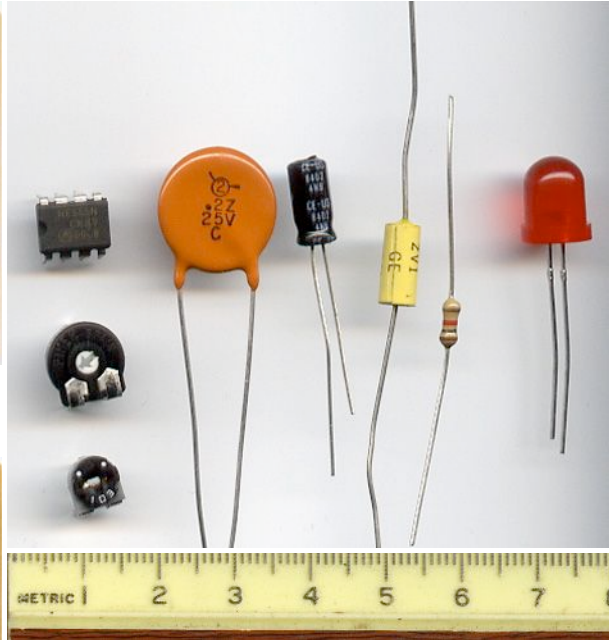
Each student shall provide a printed circuit board Radio Shack part No. 276-150 and 2 10K Ω trim potentiometers. The smaller trim potentiometer shown is Radio Shack part No. 271-282. Either size trim potentiometer can be used and obtained from other electronic parts providers. All other parts and supplies will be provided.



Foil side of PCB



Silkscreen side of PCD



cm scale provided to scale parts

Parts clockwise from lower left: small 10K Ω trim pot, large 10K Ω trim pot, 555 timer IC dip, 0.22 μ F capacitor, 4.7 μ F capacitor, 0.01 μ F capacitor, 1K Ω 1/4 watt resistor, led exact size and color may vary.

Lead and PCB spacing:

All PCB holes are 2.5mm apart both vertical and horizontal.

Use the trim pot dimensions from the ones you buy.

555 timer dip - 4 leads on each side 2.5mm spacing and 7.5mm between the leads on each side.

0.22 μ F capacitor – 10mm spacing

4.7 μ F capacitor – 2mm spacing

LED – 3mm spacing

1. Draw a parts layout for the silkscreen side of the board showing all components and necessary jumper wires to build the circuit in the schematic diagram.
2. Have the instructor approve your parts layout.
3. Assemble the circuit on the PCB in class and have the finished assembly approved by the instructor.
4. Test the circuit in accordance with the test procedure provided on a separate document.

