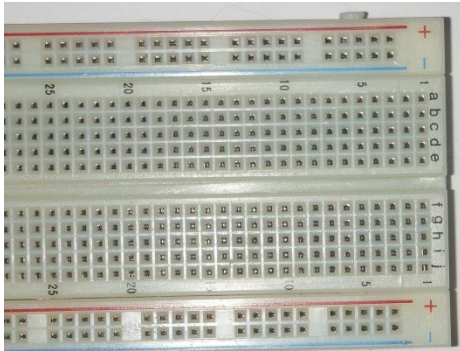


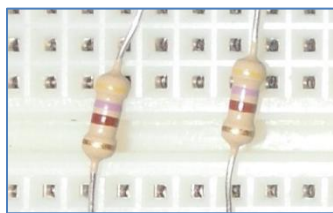
Dual LED Flasher Test Build Instructions

Parts List:

Breadboard, with rails.



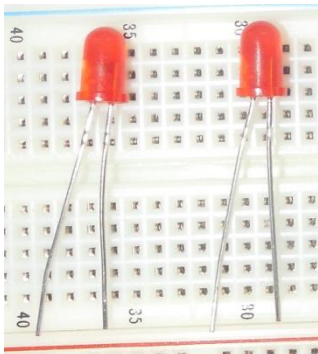
2x 470 Ohm (Yellow, Purple, Brown) Resistor



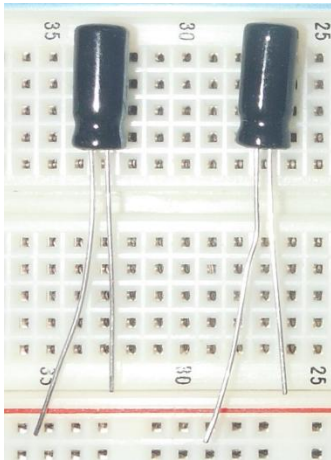
2x 100k Ohm (Brown, Black, Yellow) Resistor



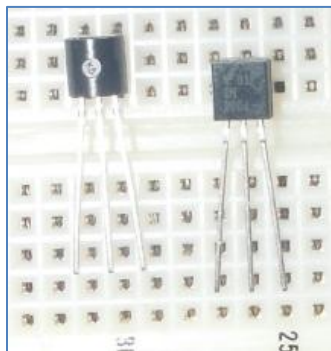
2x Light Emitting Diode (LED)
Polarized, Long Leg Positive



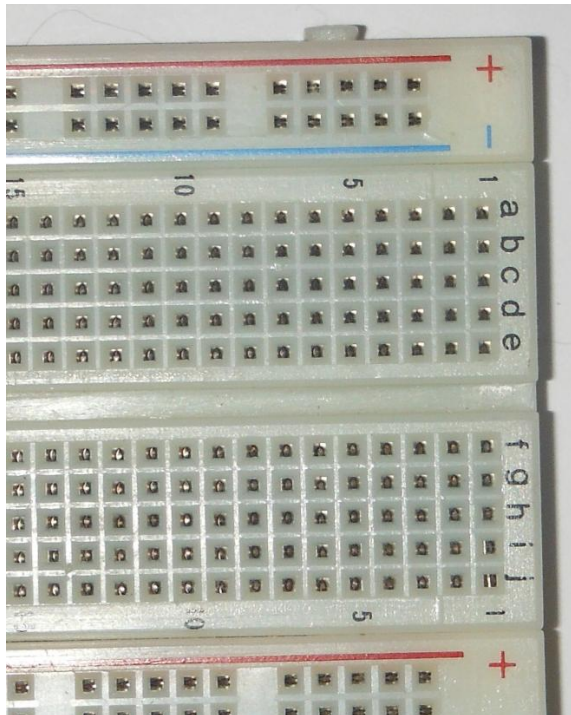
2x Electrolytic Capacitor
Polarized, Long Leg Positive



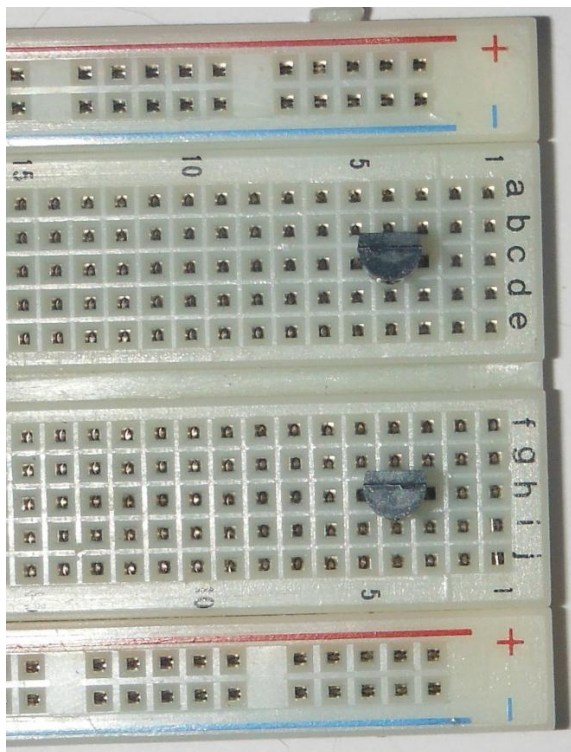
2x 2n3094 Transistors
Polarized, Round End Up
Collector (C), Base (B), Emitter (E)



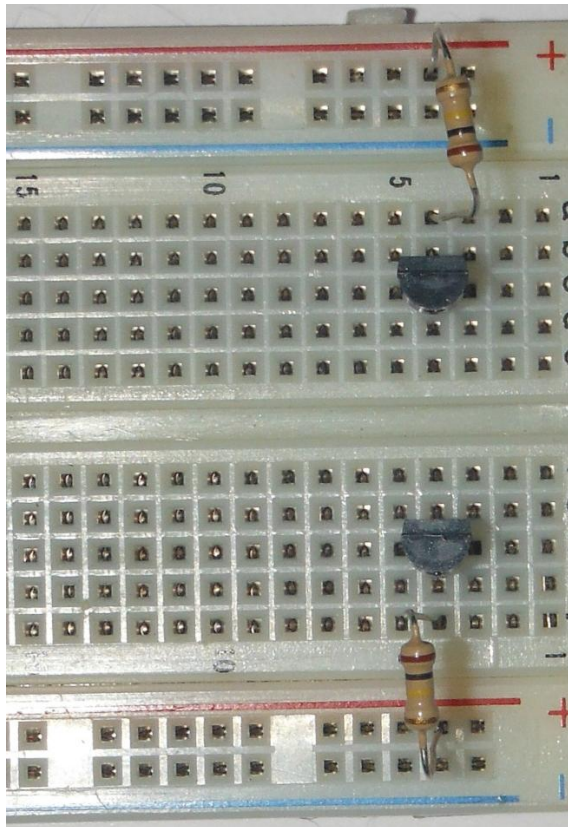
1) Position breadboard with numbers starting on the right.



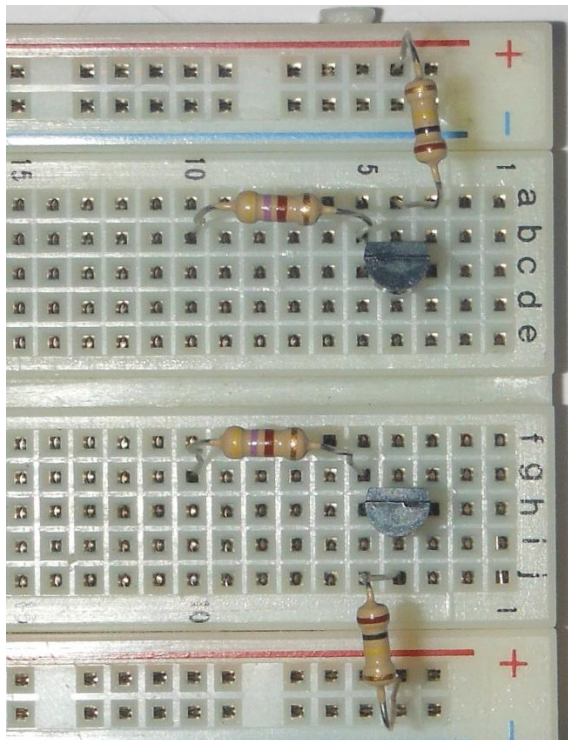
2) Insert two transistors, flat side facing up (CBE), C in column 5, E in Column 3.



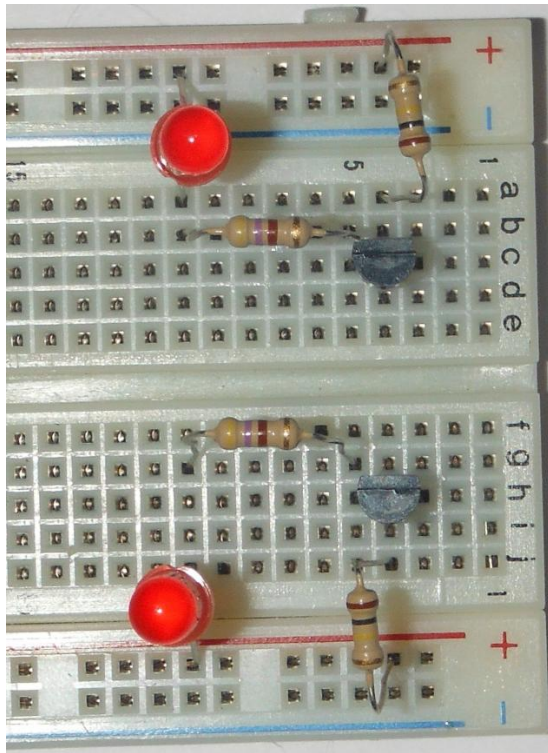
3) Insert 100K Ohm Resistor, from Base (B) of each transistor (Column 4), to Positive (Red) Rail



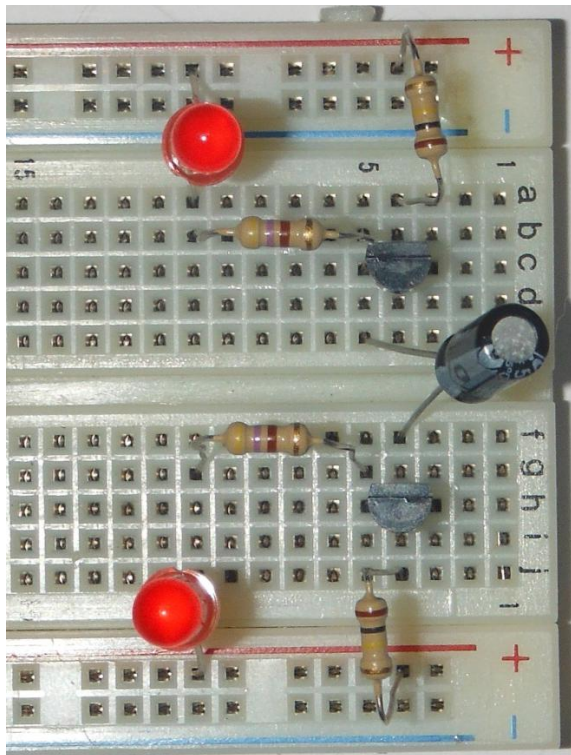
4) Insert 470 Ohm Resistor, From Collector (C) of each transistor (Column 5), to Column 10.



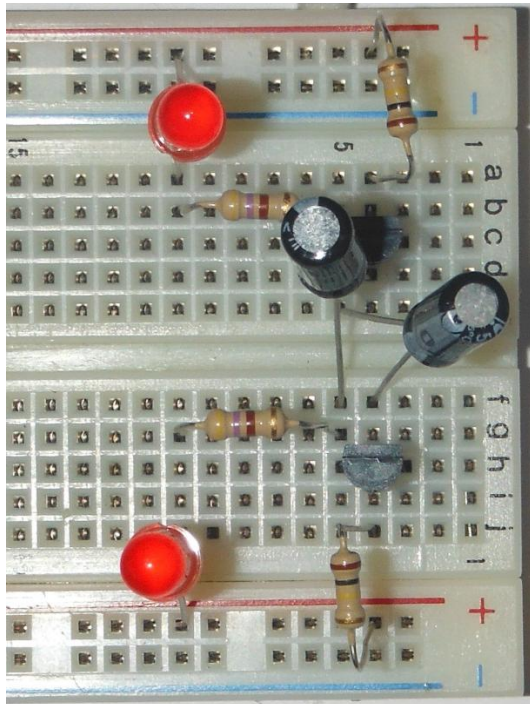
5) Insert LEDs from Column 10 to Positive Rail (Red), Long Leg.



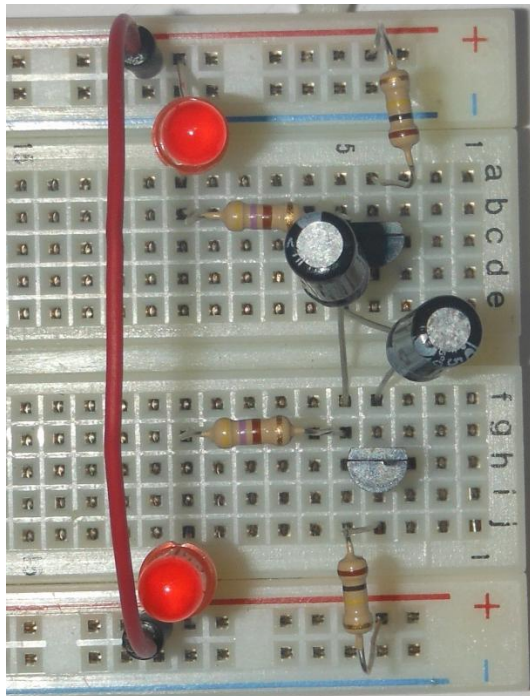
6) Insert capacitor, Long Leg at upper transistor Collector (C) Column 5, Short Leg at lower transistor Base (B) Column 4.



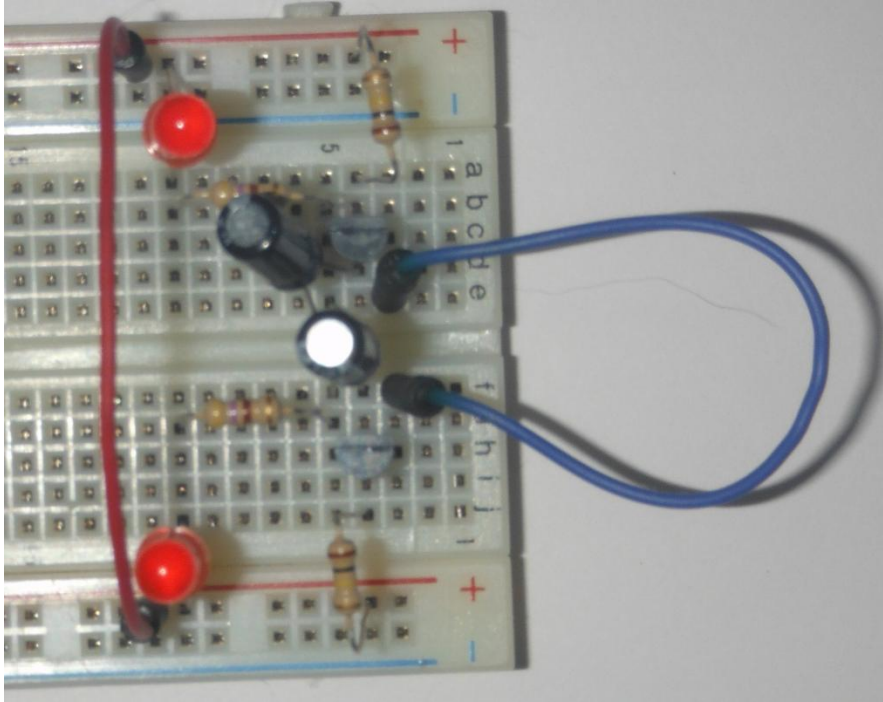
7) Insert Capacitor, Short Leg at upper transistor Base (B) Column 4, Long Leg as lower transistor Collector (C) Column 5. Adjust capacitors so that legs do not touch.



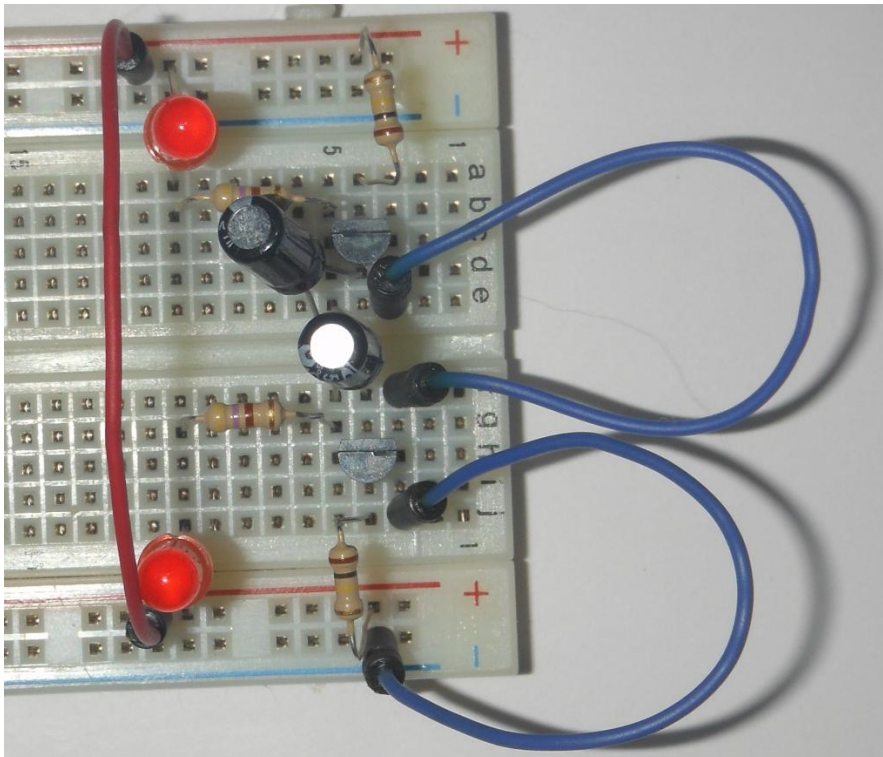
8) Tie Positive Rails together.



9) Jumper top transistor emitter (E) column 3, to bottom transistor emitter (E) column 3.



9) Jumper bottom transistor emitter (E) column 3, to bottom Ground Rail.



10 Attach Battery, Ground to bottom Ground Rail, Positive to Positive Rail.
Light Emitting Diodes, LEDs will immediately start blinking.

