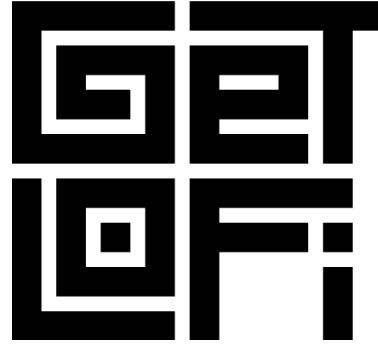


## Quad Oscillator Kit



### **BEFORE YOU BEGIN SAFETY IS YOUR RESPONSIBILITY.**

**Make sure that all the components are included.  
Always work in a well lit and ventilated area.  
Wash hands after handling solder and components.  
Use only proper tools.  
Returns only accepted for unopened kits.  
Send us an email at [circuitmaster@gmail.com](mailto:circuitmaster@gmail.com) with any problems or questions.**

### **Tools Needed for Basic Kit Assembly**

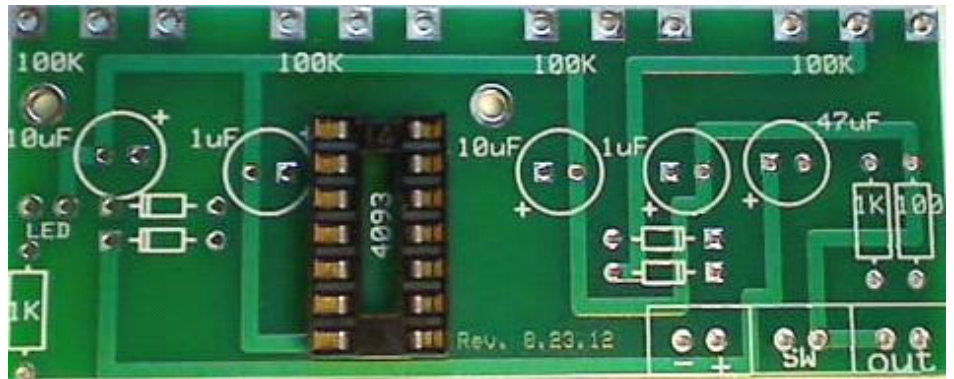
**25 watt or less soldering iron with a fine tip.  
60-40 Flux-Core from Radio Shack or equivalent DO NOT USE ACID CORE or SELF CLEANING solder.  
Wire Cutter for cutting long legs of components close to circuit board.  
Wire Stripper for exposing the metal core of the insulated wire.  
Third Hand or other assembly with a clip to hold the circuit board while soldering.**

**Assembly Instructions:**

**Step: 0**

DIP 14 Socket

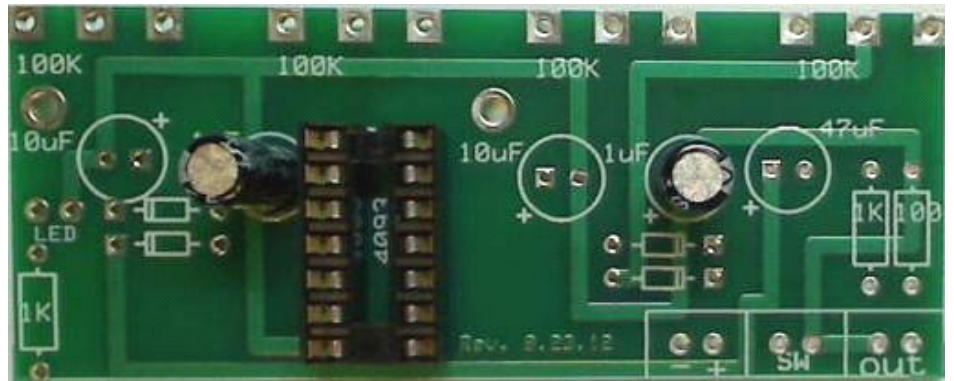
Solder in IC Socket.



**Step: 1**

1uF Capacitor

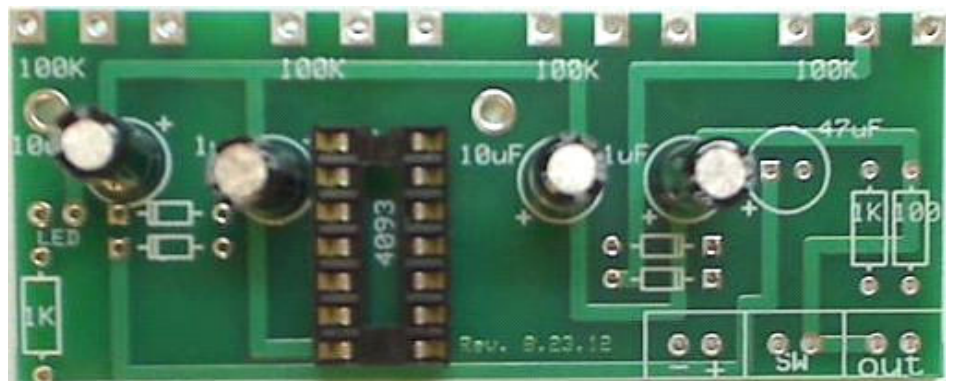
Solder in Capacitor(s)



**Step: 2**

10uF Capacitor

Solder in Capacitor(s)

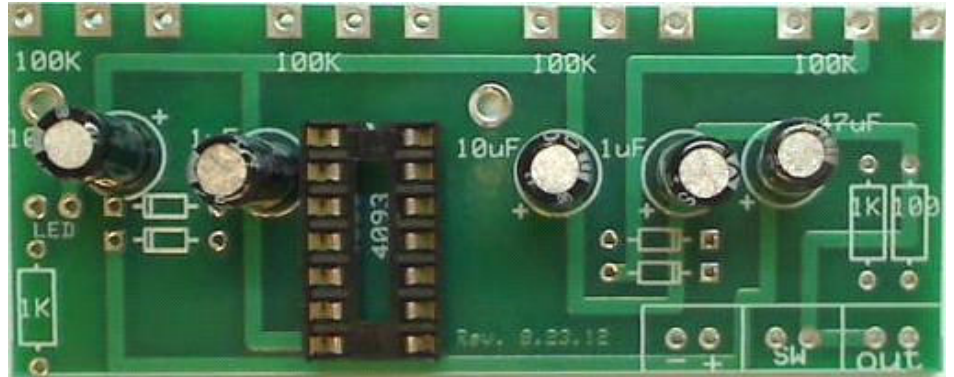


**Assembly Instructions:**

**Step: 4**

47uF Capacitor

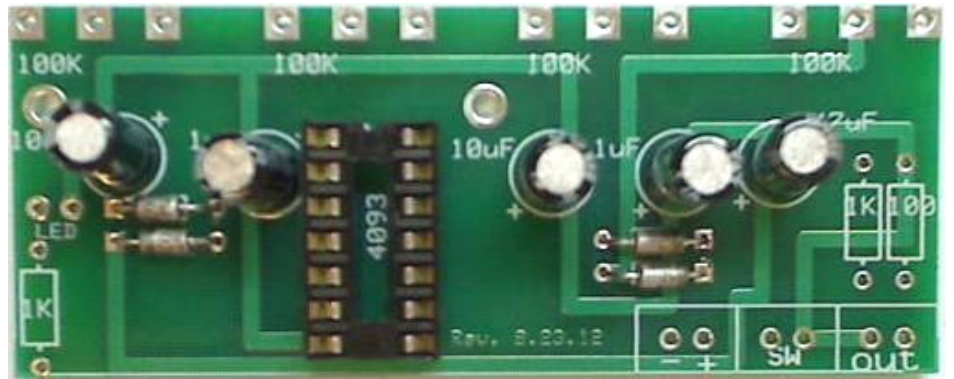
Polarized. The - stripe must be opposite of + in the circuit board



**Step: 5**

1N5230 ZENER DIODE

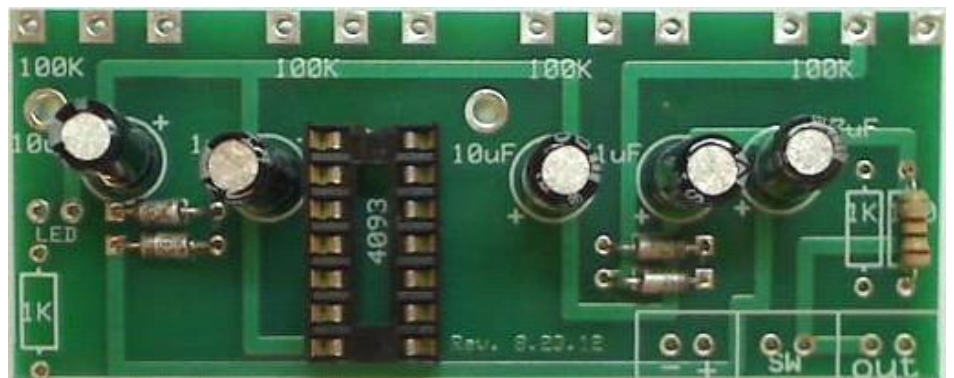
Polarized, observe the stripe orientation



**Step: 6**

100 1/4 Watt Resistor

Brown, Black, Brown

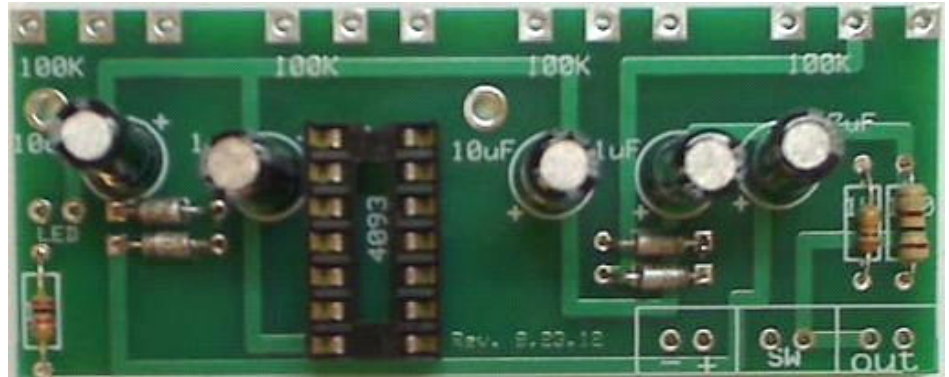




**Assembly Instructions:**

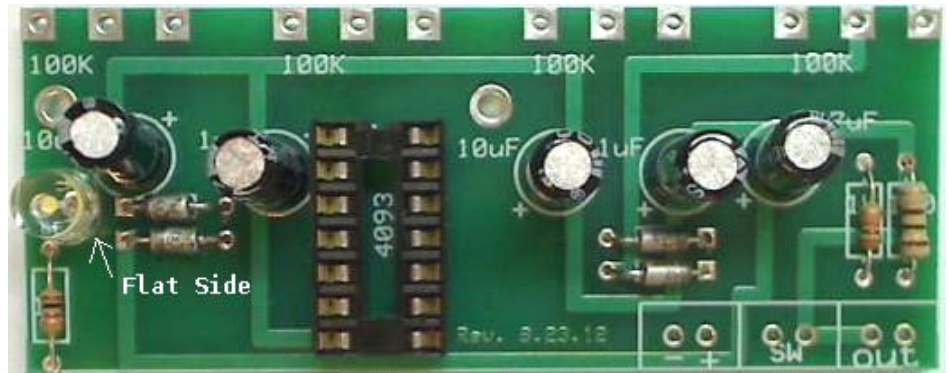
**Step: 7**

1K 1/4 Watt Resistor  
Brown, Black, Red



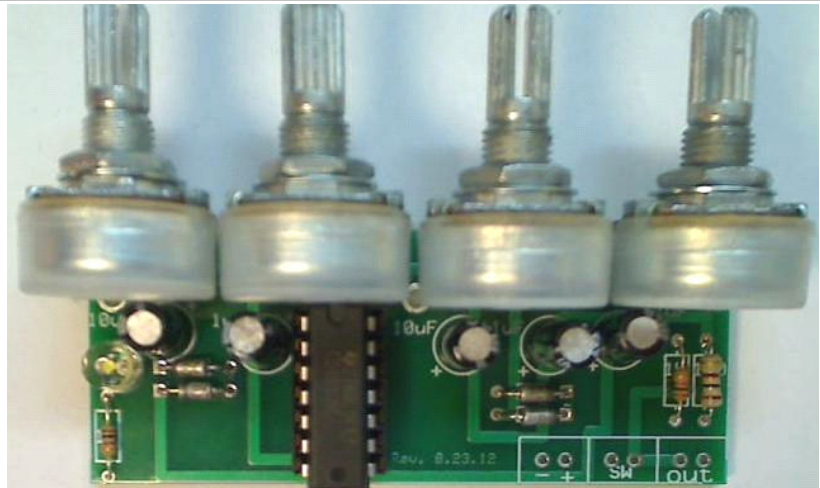
**Step: 8**

Wide-angle White LED  
Polarized. Longer leg is +.



**Step: 13**

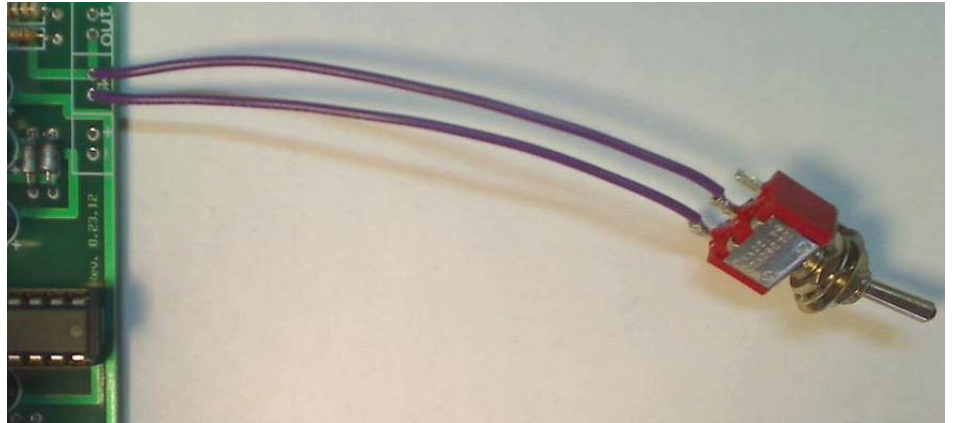
IC 4093



**Assembly Instructions:**

**Step: 13**

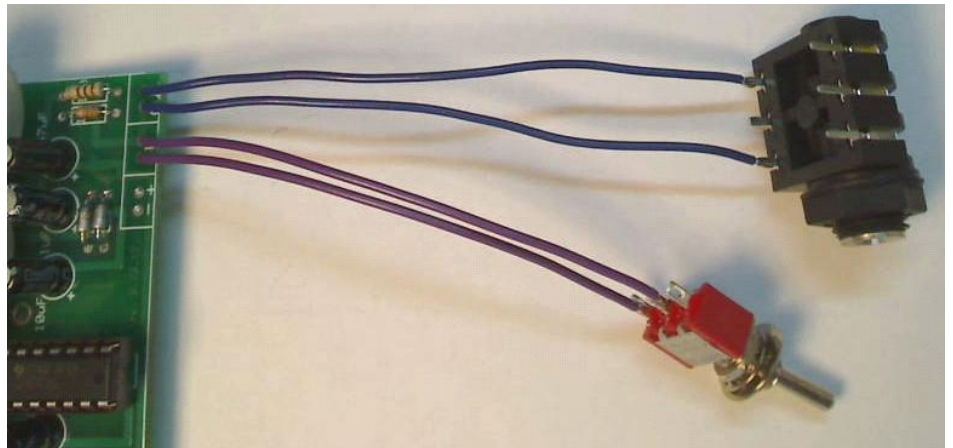
SPDT SWITCH



**Step: 15**

STEREO 1/4 JACK SWITCHING

Make sure to connect to the Non-Switching side



**Step: 17**

9 Volt Battery Clip

Red wire is Positive (+9 volts ) and Black wire is Negative ( - ) also known as Ground

