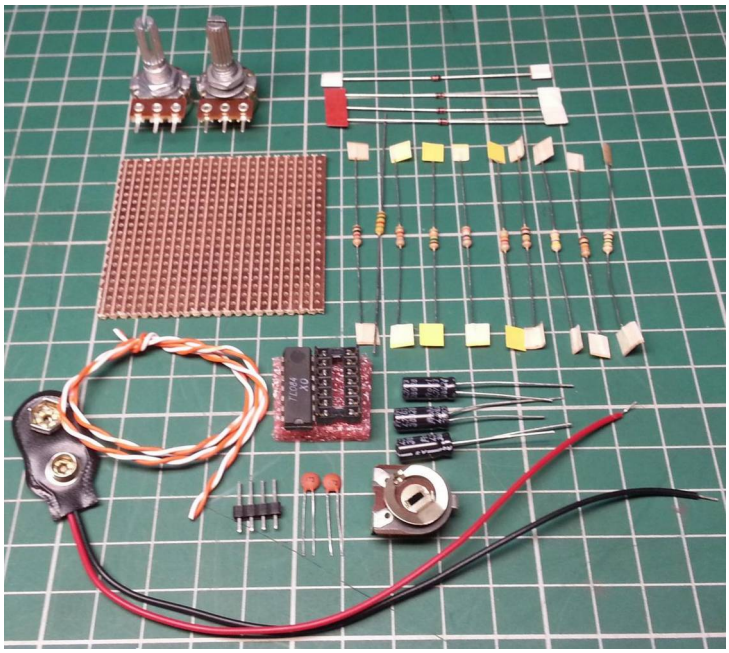
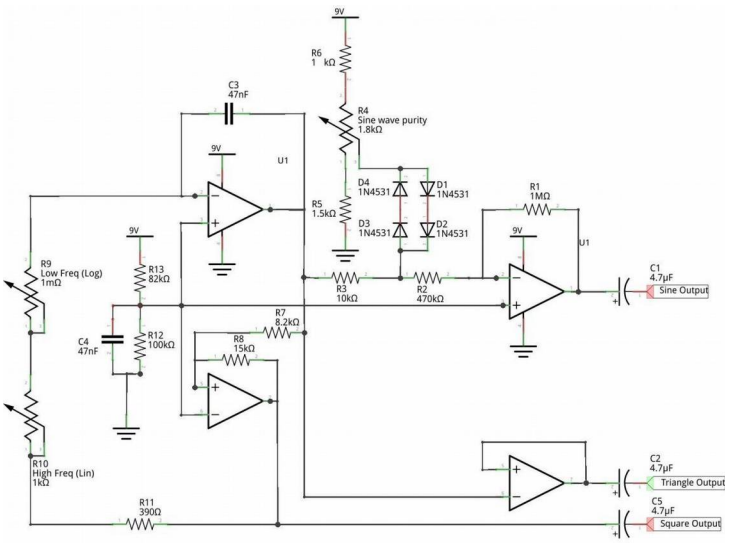
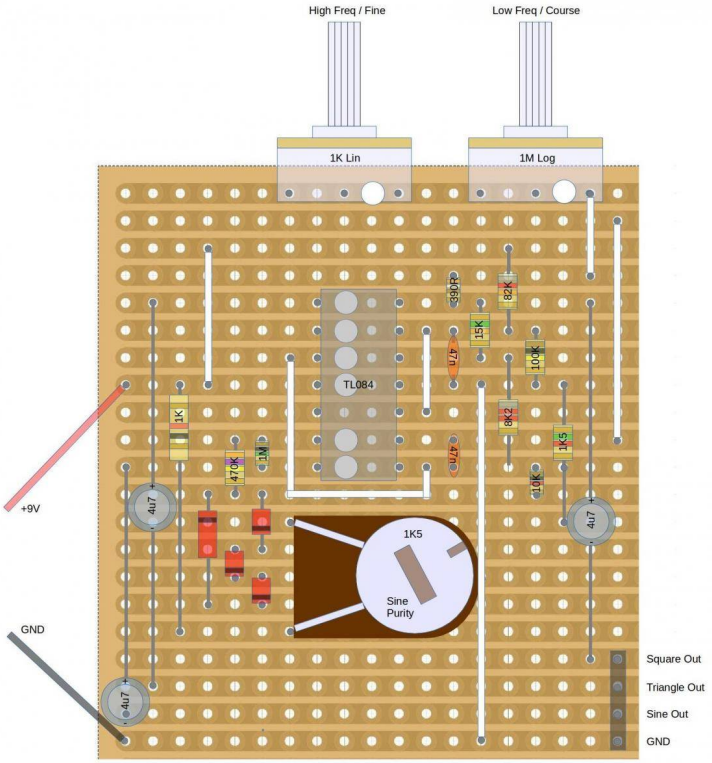
Function Generator Kit

This kit is a budget function generator kit. It outputs Square, Triange and Sine waves simultaneously. Frequency is adjustable from approx 20Hz to 20kHz







Kit Contents

Resistors: 1 x 390ohm, 1 x 1Kohm, 1 x 1.5Kohm, 1 x 8.2Kohm, 1 x 10Kohm, 1 x 15Kohm, 1 x 82Kohm, 1 x 100Kohm, 1 x 470Kohm, 1 x 1Mohm

Capacitors: 2 x 47nF, 3 x 4.7uF

Diodes: 4 x 1n4531

ICs: 1 x TL084

Potentiometers: 1 x 1K Lin, 1 x 1M Log

Trimmer Resistor: 1 x 1.5Khom

Other: 1 x 9V Battery Connector, 1 Stripboard, 30cm TP Solid Wire., 1 x 4 pin header, 1 x 14 Pin DIL Socket

Tools Needed:-

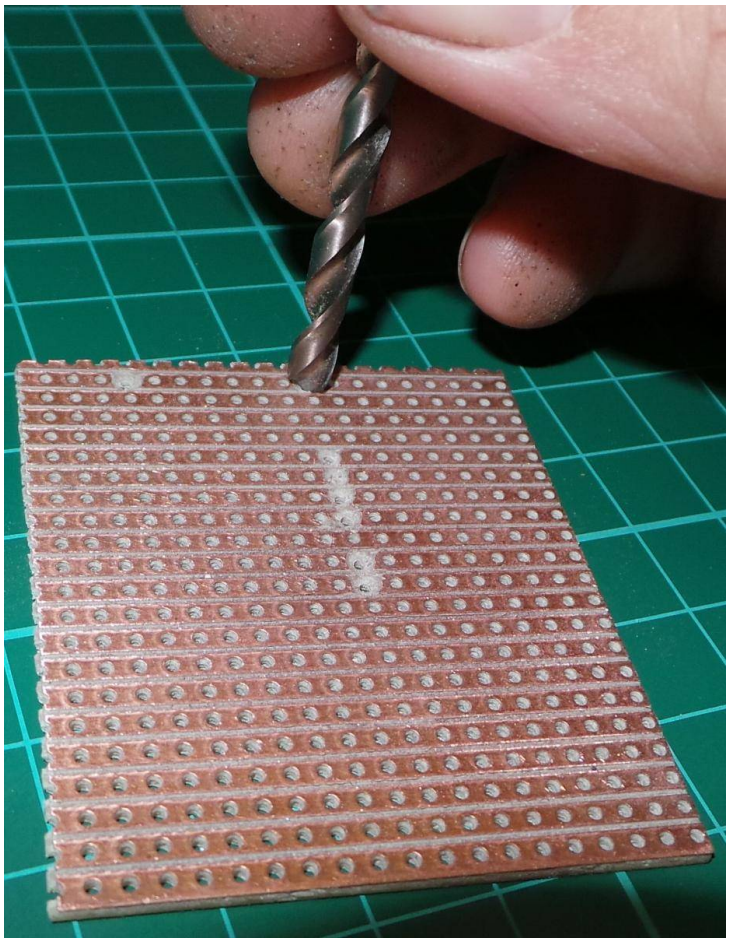
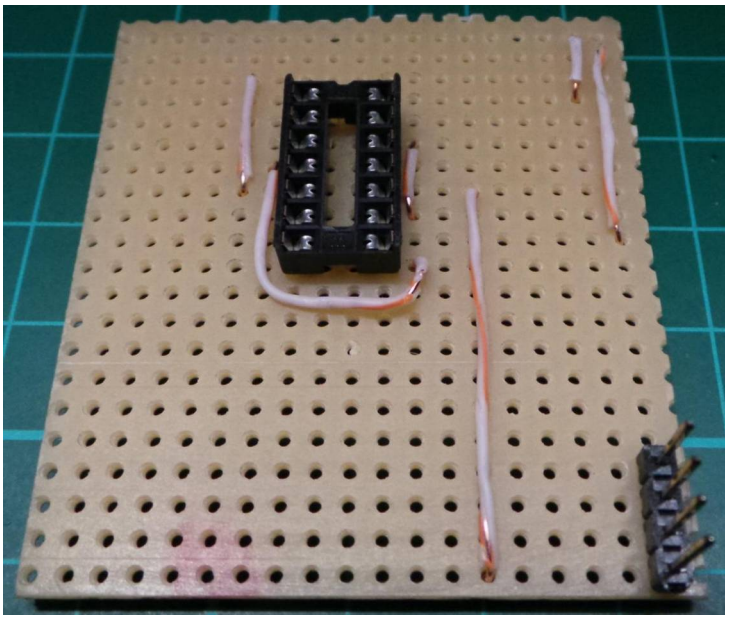
Soldering Iron and Solder

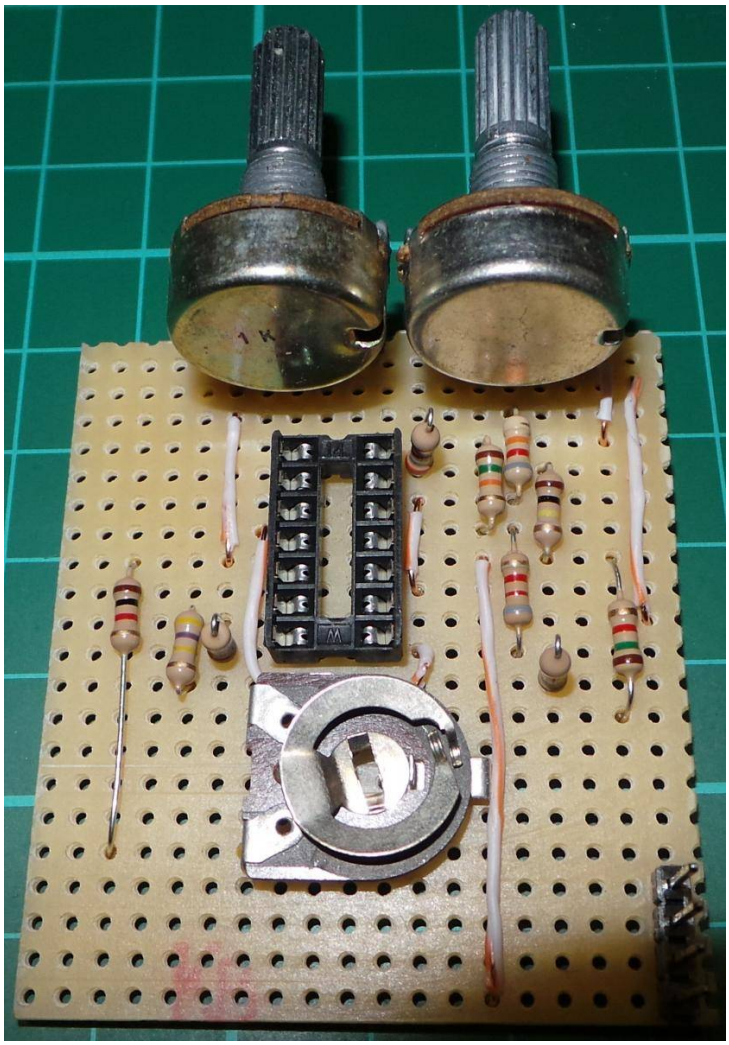
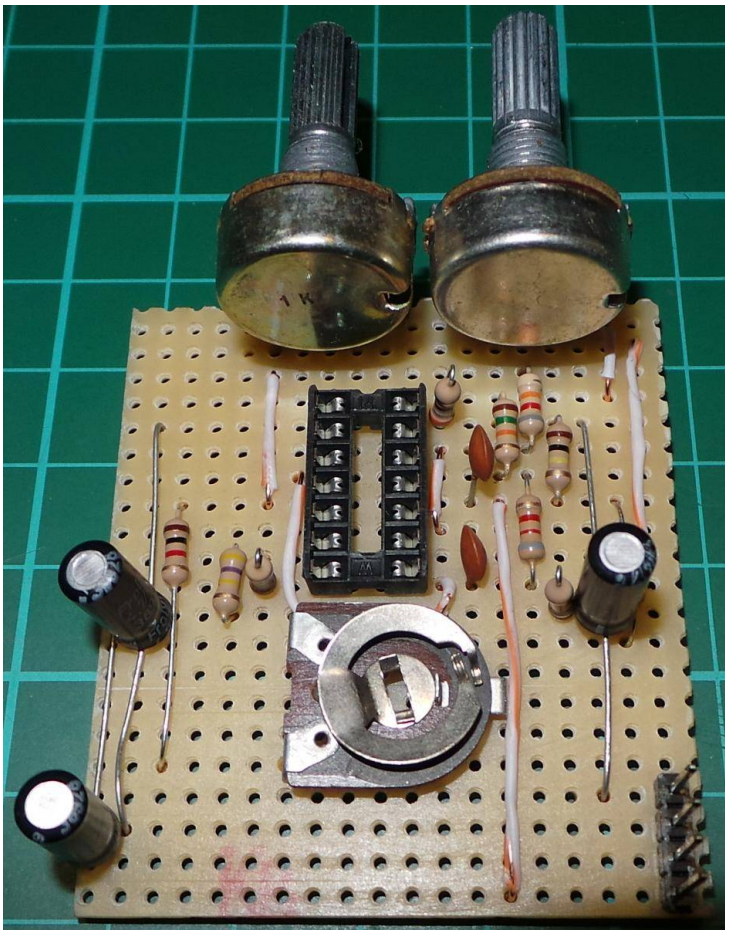
Side Cutters

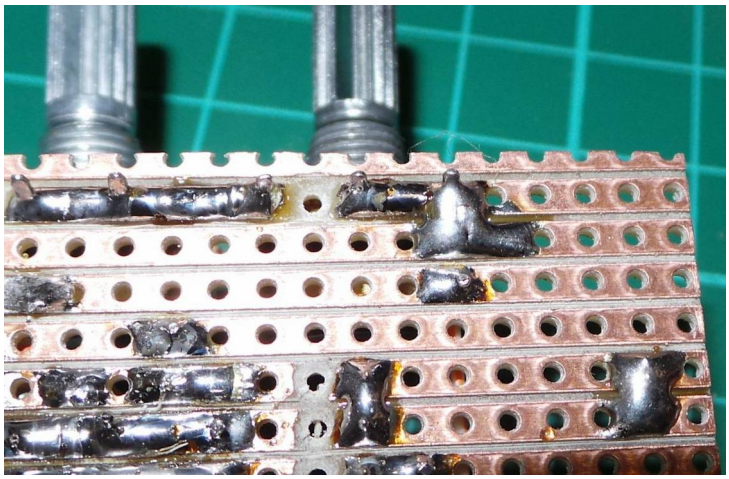
M4 drill bit (can be slightly larger)

Thin Plyers (Not essential)

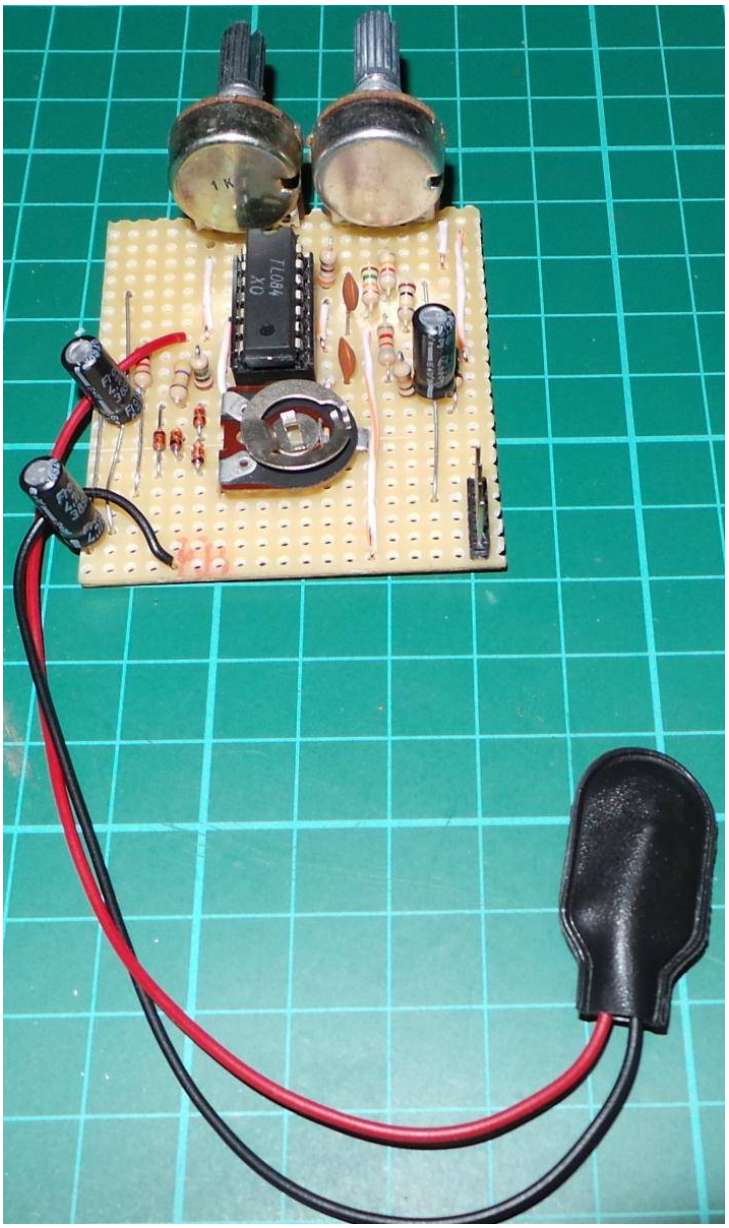
Wire Strippers (Not Essential)

	
1) Cut the tracks on the stripboard as above.	**2) Cut Wire Links to length and solder into position, also solder the IC socket and header.**

	
3) Solder Resistors, Potentiometers and Trimpot into Position (Note - in the above picture the 100K resistor is soldered incorrectly, the top pin should be one hole lower)	**4) Solder Capacitors into position (Note the large electrolytic capacitors needs to have their negative terminal towards the bottom of the board.**



5) On the underside of the stripboard, short out the top two tracks, and also pins 1 and 2 on the IC. Alternatively, you can use a wire jumper to short out these pins.



6) Solder the diodes (making sure to get them the right way around) and Battery clip into position, and Insert the IC, the circuit is now complete.