How to build a Flashing Photo Frame
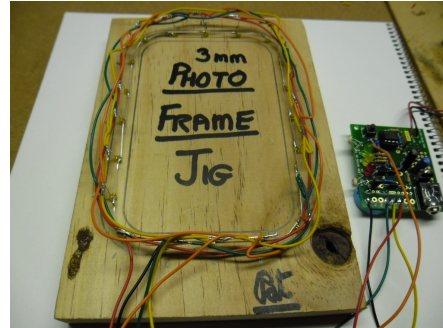
Name-   HG

Pat McMahon– 4/9/2012

1– Select from either Green, Blue or Pink Frames.

2– Then collect one of Pat's Photo Frame Jigs for using either the 3 mm or 5 mm LED's.

3– Carefully remove the black felt covered Photo Frame back and remove the glass etc and carefully place it in a storage bag.
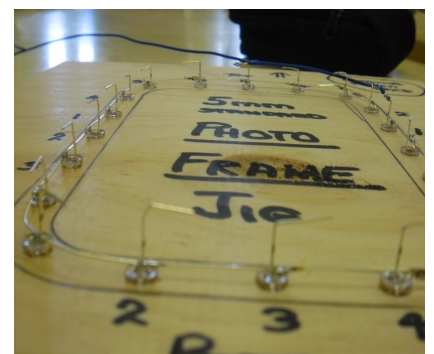

4– With the frame face down, carefully drill (4.8mm drill for the 5mm LED's) the 20 holes for the LED's, accurately using the mold holes as centres, taking care not to crack the frame.
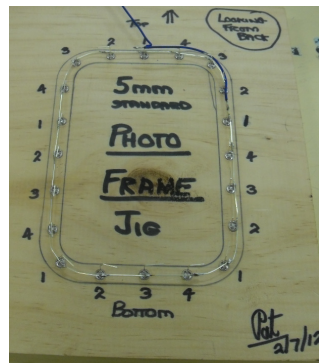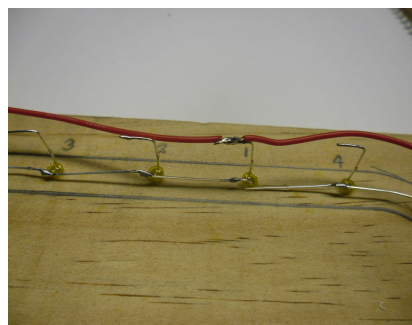

5– Having 4 controllable circuits, select your LED colours. Insert LED's carefully aligning in the jig, bending only the negative legs, then solder together.
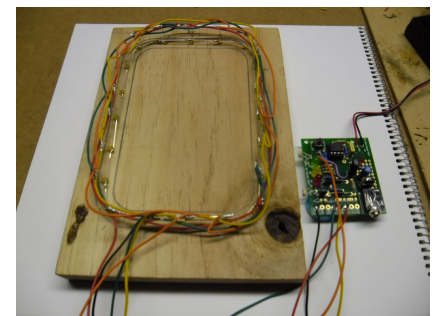

6– Then bend about 15mm up, the long positive leg towards each other & trim.
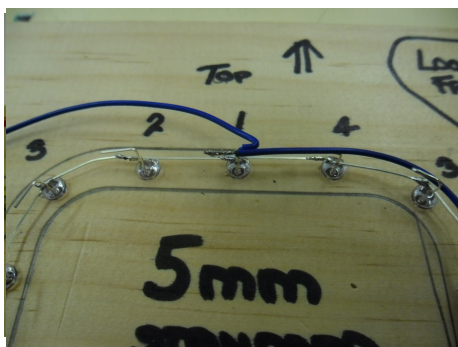
7– Tin all the bent positive legs. Select a colour wire, strip, twist & tin it & solder to LED 1.

8– Continue joining all the five No 1's only with the same colour wire, cutting, stripping, twisting & tinning as you go. Do the same again to 2, 3 & 4 , each with a different colour wire.

9– Add the same colour 200mm long wire tail to 1, 2, 3 & 4 as above, to connect later to your Picaxe 8M2 Microcontroller.
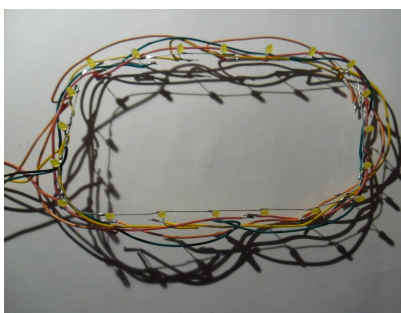
10– Carefully remove the 20 LED crown from the jig and insert it the correct way up (carefully with patience) into your pre drilled frame, carefully pushing them home with a small screwdriver.
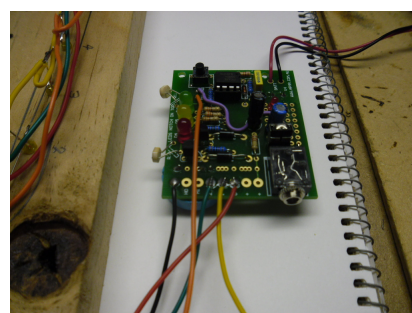
11– Solder each of the pre tinned colour wires 1 ,2, 3 &4 to pin 0,1,2 & 4 on your Picaxe 8M2 Uniboard and then program your own personal software design.

12– Insert the glass, your favourite Photo and secure the backing and black felt covered back. Admire your excellent Flashing Photo Frame.