

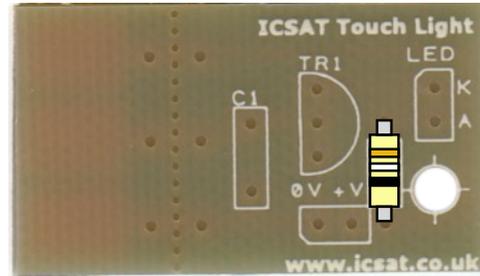
# Touch Light

## Introduction

The Touch Light Kit can be used to make a 3V Moody Light project, with the unique feature of a touch switch - that is a switch with NO moving parts. It has a small component count, which ensures success every time. The kit uses a 5mm or 10mm 'Rainbow' colour cycling LED. The PCB is designed to be use as is or it can have the touch contact detached and used remotely if desired. A great starter project for Y6 and Y7 Design & Technology.

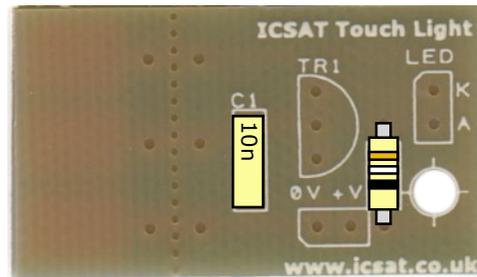
- 3V powered
- 5mm or 10mm 'Rainbow' colour cycling LED
- 20mm x 37mm

Solder the 39R resistor into the R1 position.



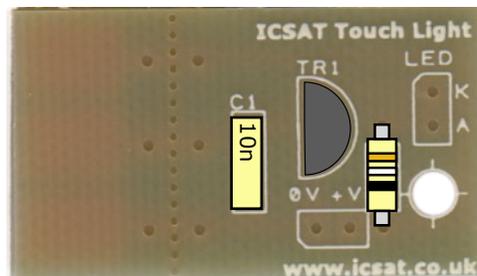
1

Now solder in place the 10nF capacitor in the position marked C1



2

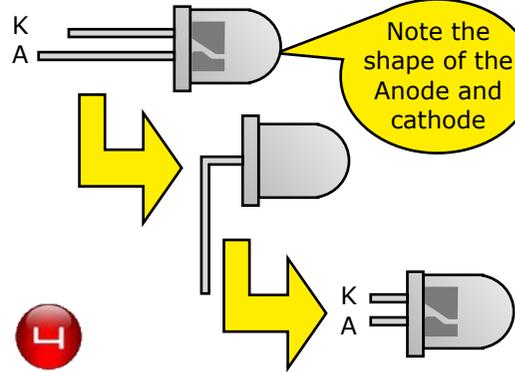
Now solder in place the BS170 FET Transistor, ensure it's orientation matches the component footprint on the PCB.



3

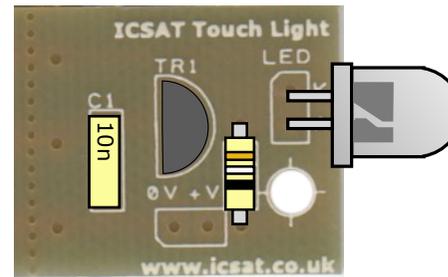
## Assembling your Touch Light

You now need to prepare the LED before fitting. It needs to be bent as shown:



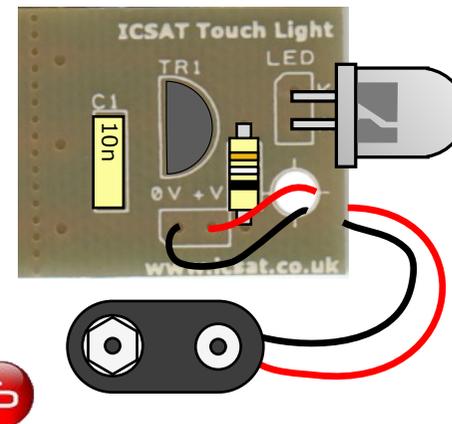
4

Now solder in place the prepared LED, ensure it is the correct way around. This can be verified by looking at the internal construction of the LED, see step 6.



5

Lastly, solder in place your PP3 battery clip, using the hole as a cable restraint.

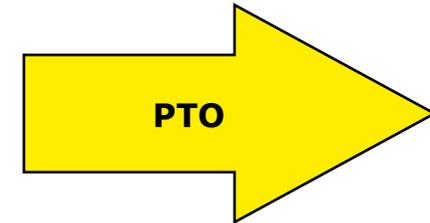


6

You are now ready to test out your Touch Light, over the page are details of how to use remote contacts - using either the pcb or making a set using conductive materials.



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[www.icsat.co.uk](http://www.icsat.co.uk)  
 SKU EK0010  
 Touch Light Manual  
 Ver. 1.00



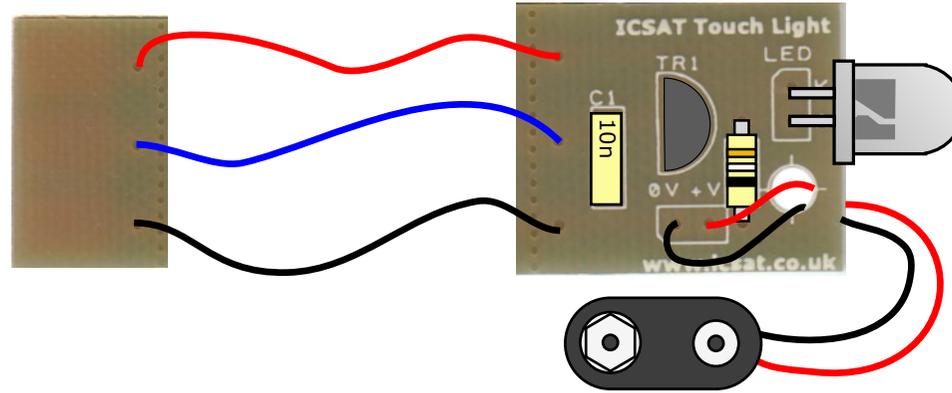
Remember to check all connections before powering up the Touch Light. To turn on the torch, touch the top and middle contact with your finger. It now should light up. To turn the light off, touch the middle and bottom contacts - it should now go off.



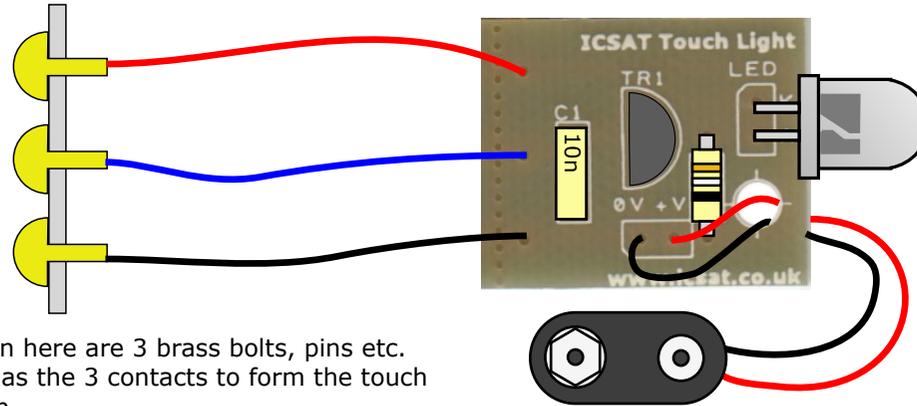
## Making the contacts remote

The three contacts can be made remote. By either cutting the PCB in half, using the perforations as a guide or by making new contacts with any conductive material that you can connect back to the pcb using the 3 holes provided as shown below:

### Separated pcb method:



### Separate contacts method:



Shown here are 3 brass bolts, pins etc. Used as the 3 contacts to form the touch switch

## Support

ICSAT offers **FREE Tech Support** via our website or Facebook

