Step 3: Solder the capacitors

C1 100u C2 0.1u



Note:

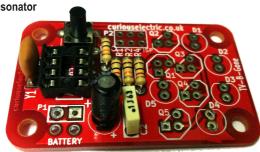
Polarity on C1: White stripe is GND. Long lead is +ve

C2 is marked ".1J63"

Step 4: Solder the push switch



Step 5: Solder the 8MHz resonator



Note: The resonator can be inserted in either direction.

Step 6: Solder the red LED

Note polarity: flat side negative, long leg +ve



Step 7: Solder the transistors

3mm Red LED

Transistor Q1
Type: BC640
Check orientation!



Transistors Q2-5 Type: BC548 Check orientation!

Transistor orientation:

Flat side of transistor here

Round side of transistor here

Step 8: Solder the infra-red LEDs



Use pliers to bend LED leads 90 deg.



Note polarity: flat side negative, long leg +ve