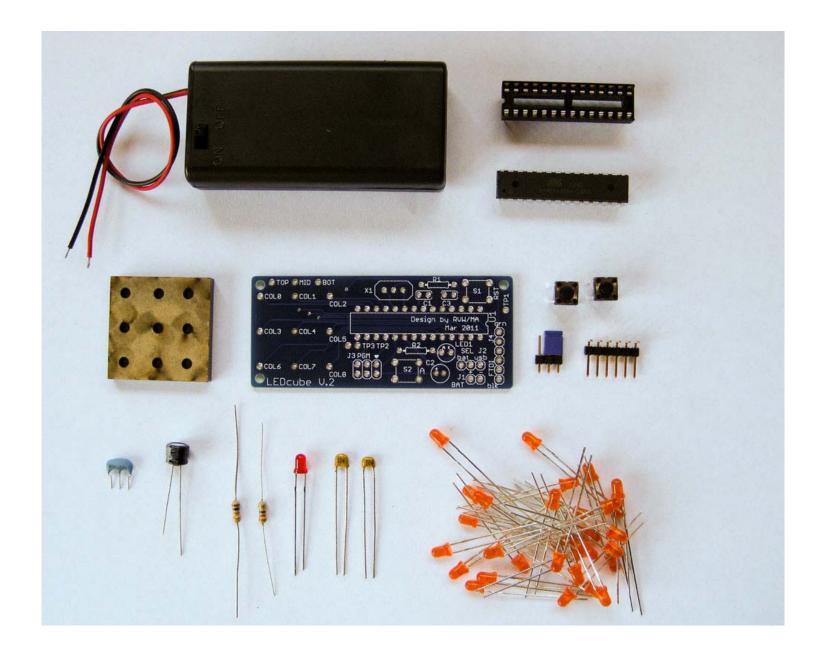
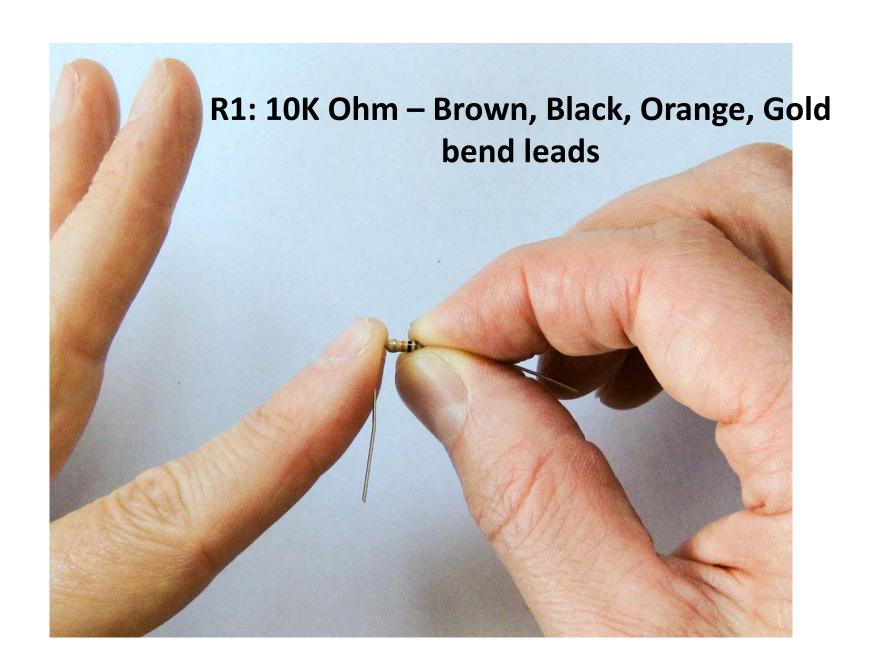
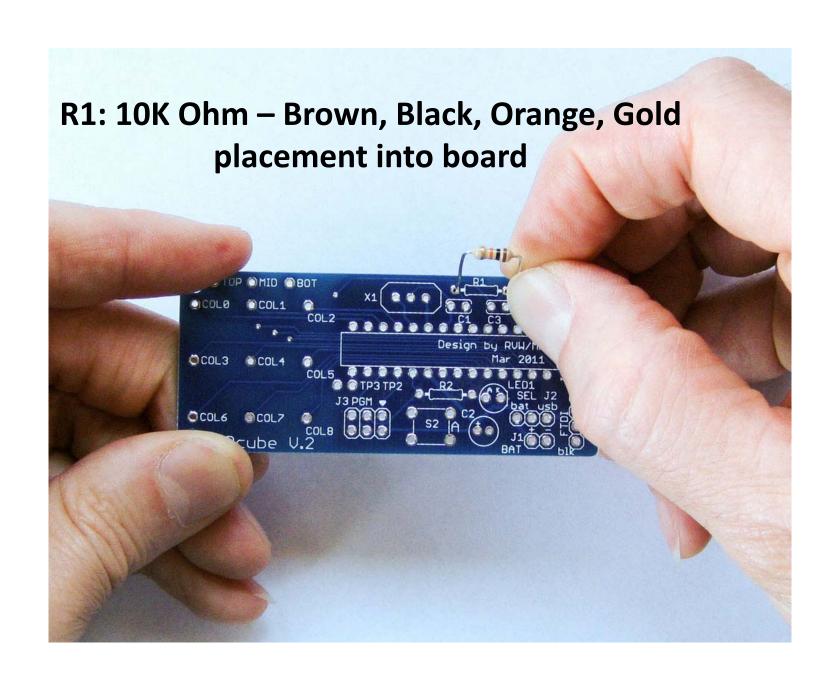
Parts

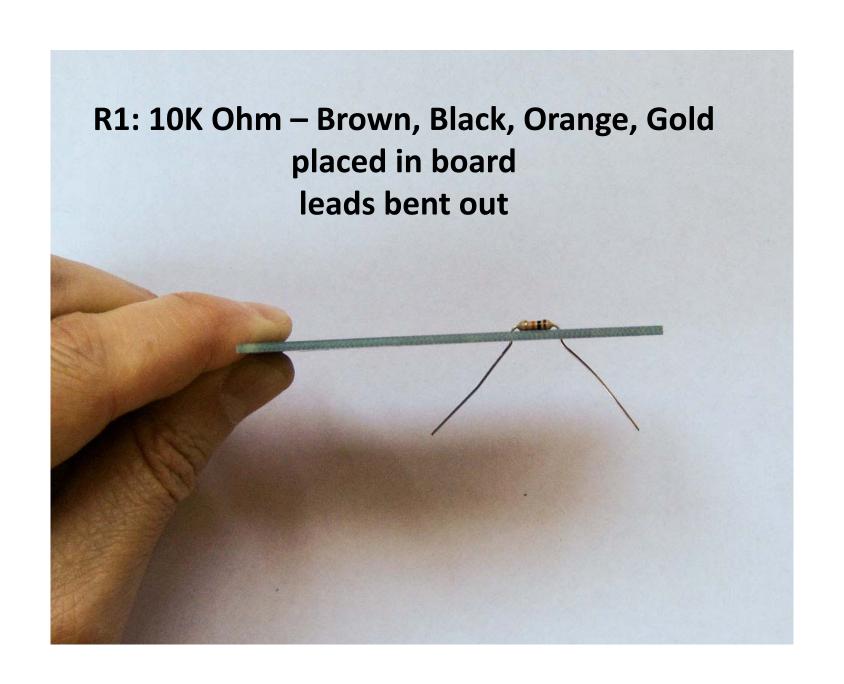


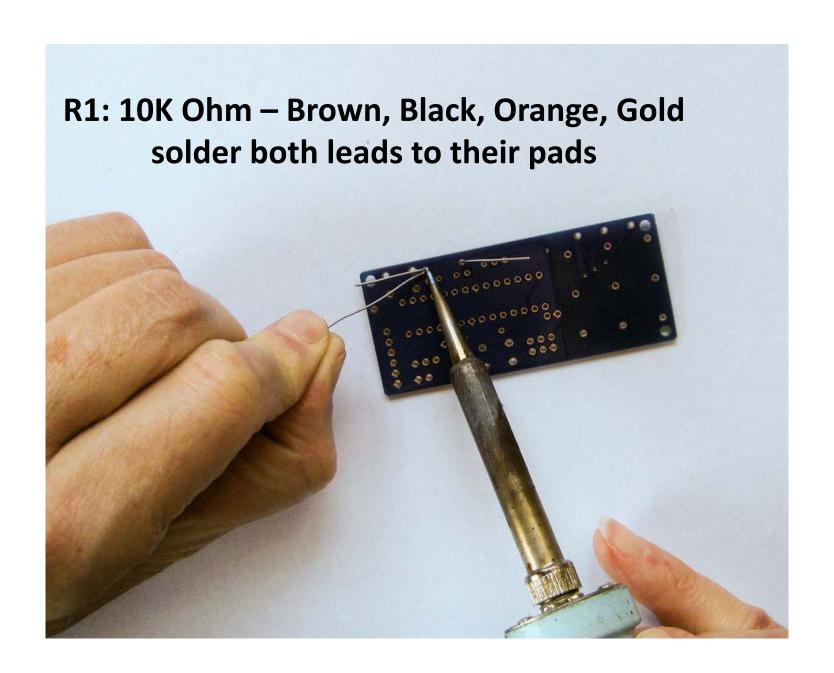
Tools

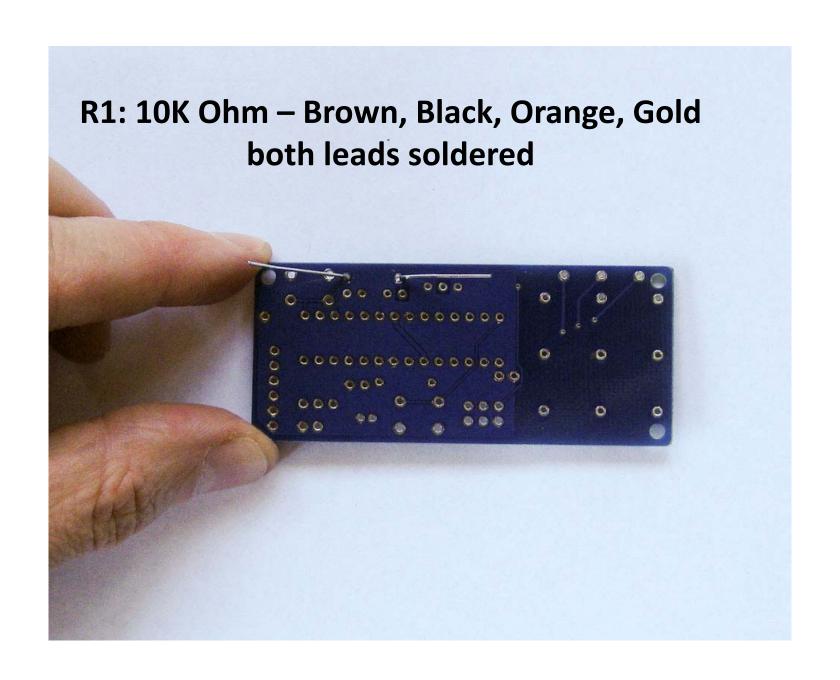


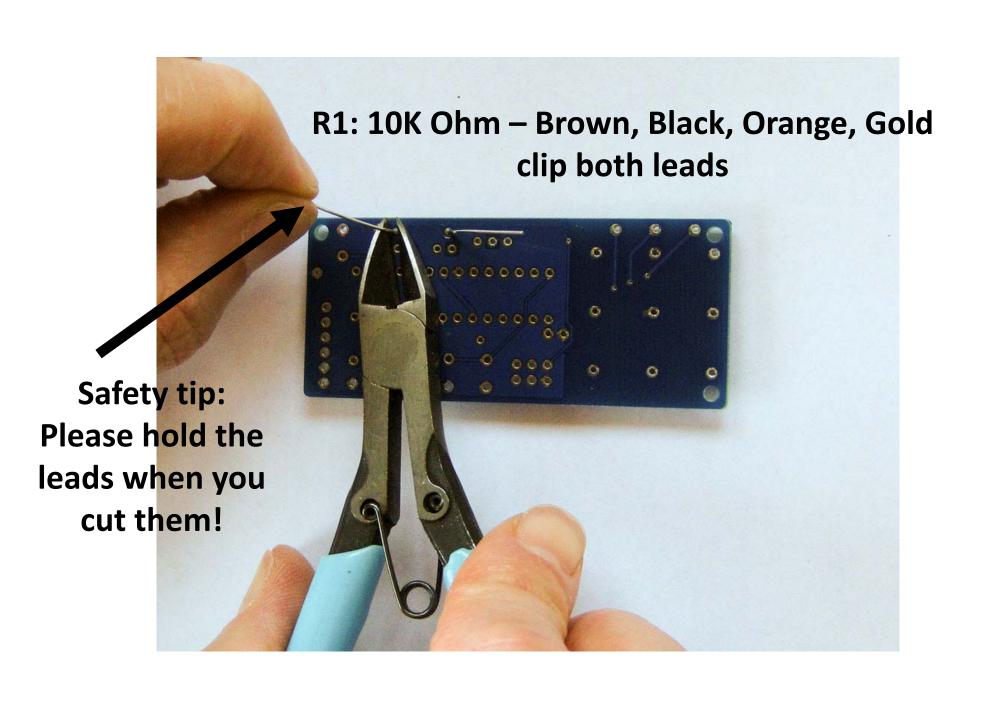




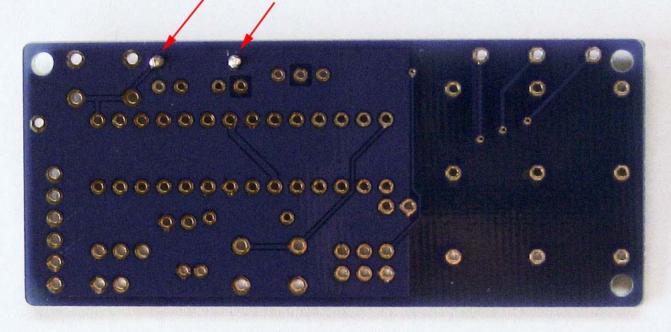




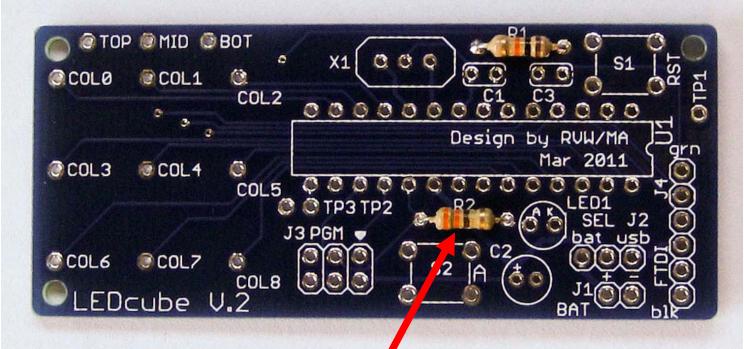


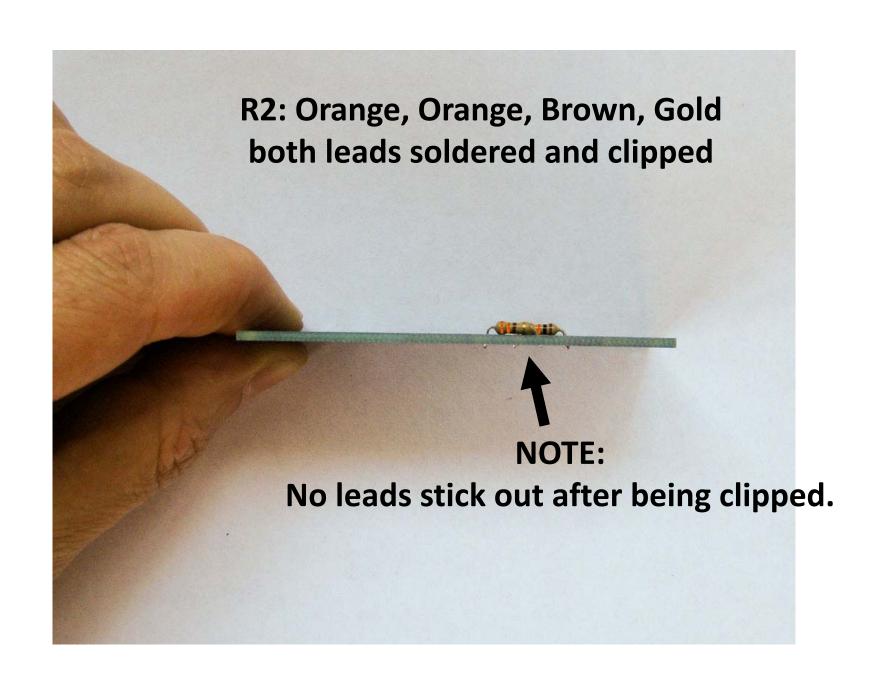


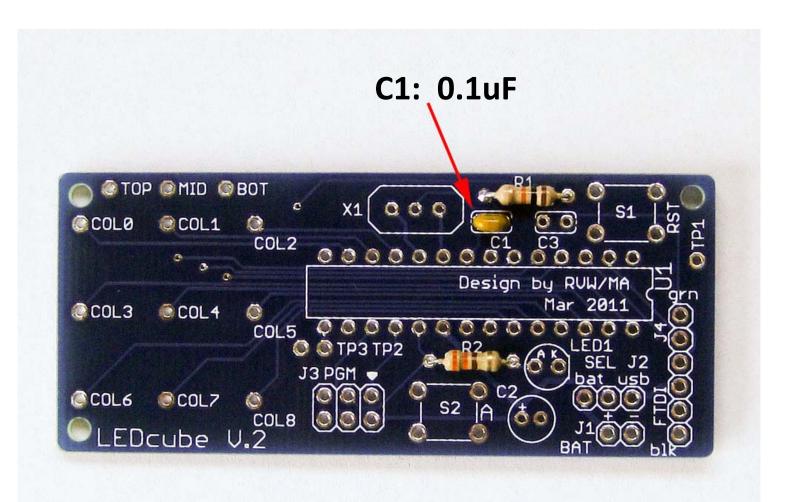
R1: 10K Ohm – Brown, Black, Orange, Gold both leads soldered and clipped



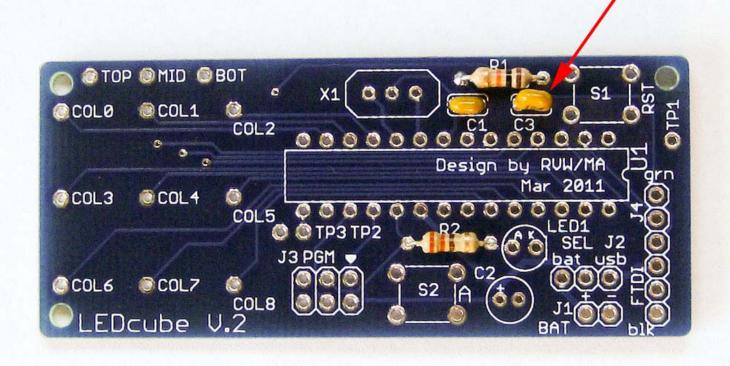
R2: 330 Ohm – Orange, Orange, Brown, Gold both leads soldered and clipped

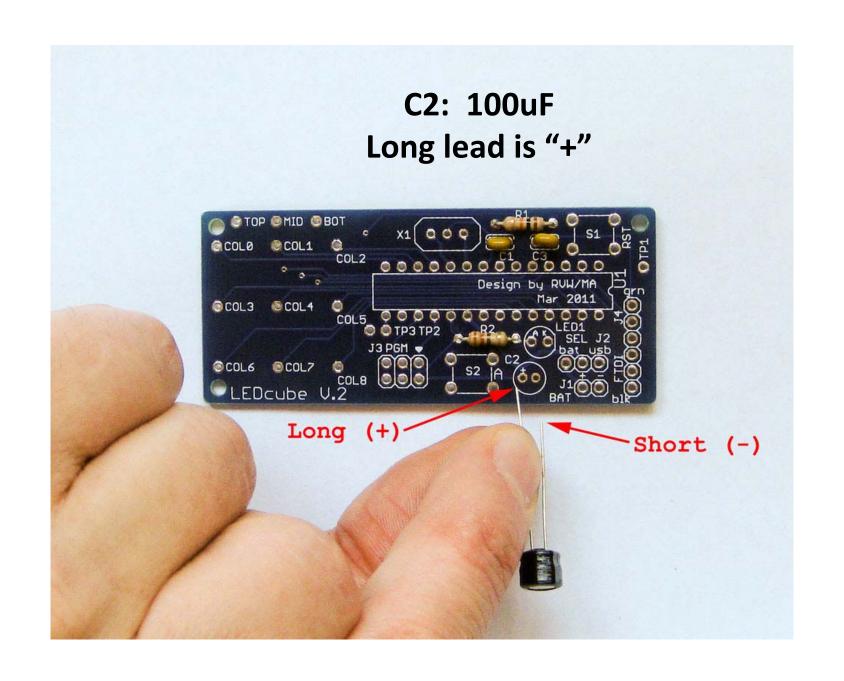




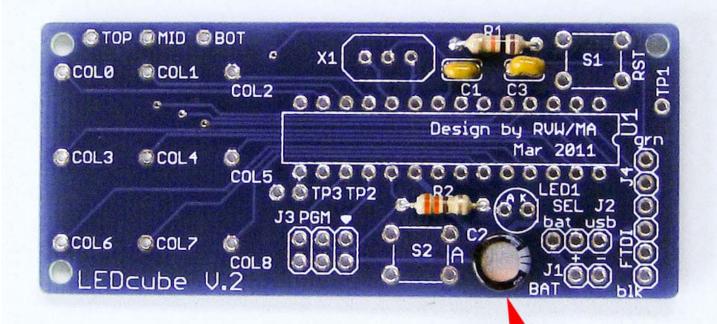


C3: 0.1uF

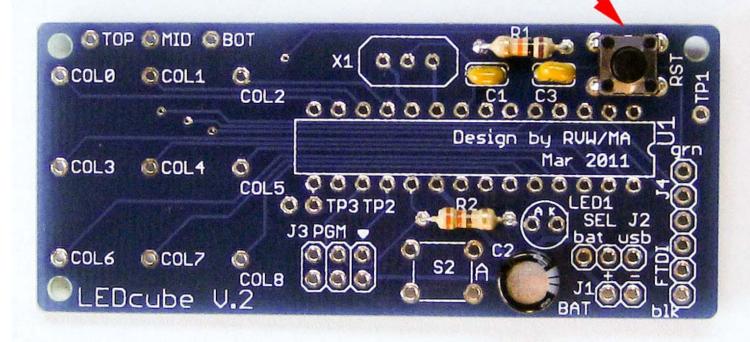




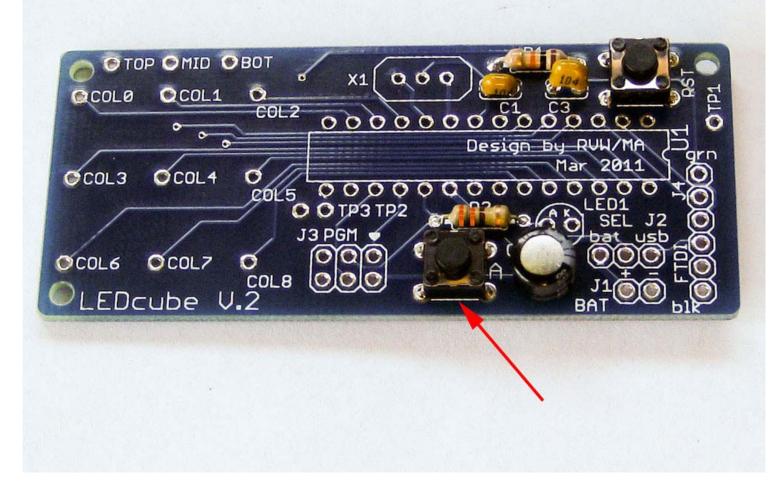
C2: 100uF soldered, with leads clipped

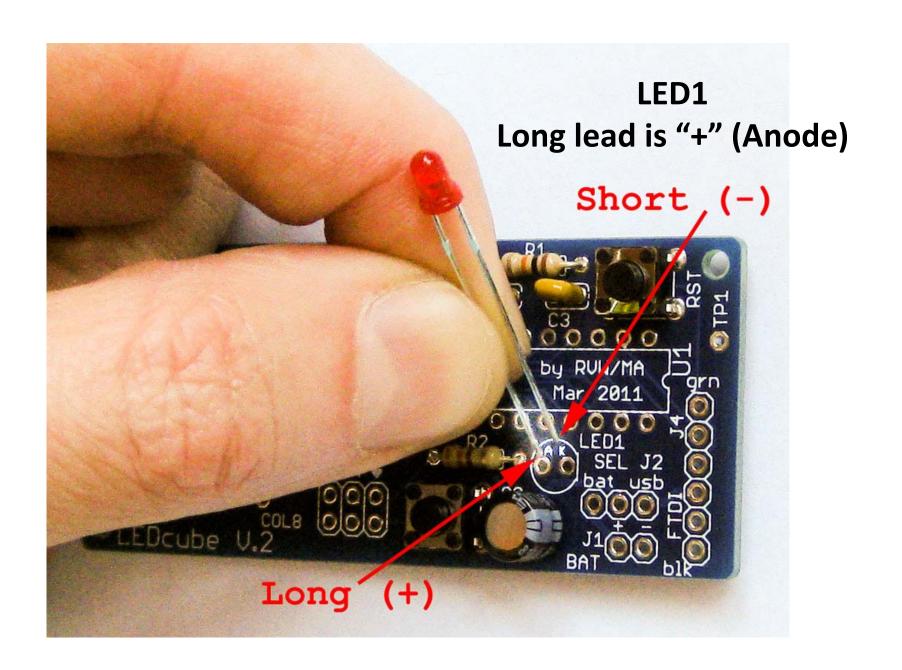


S1 soldered (no need to clip leads)

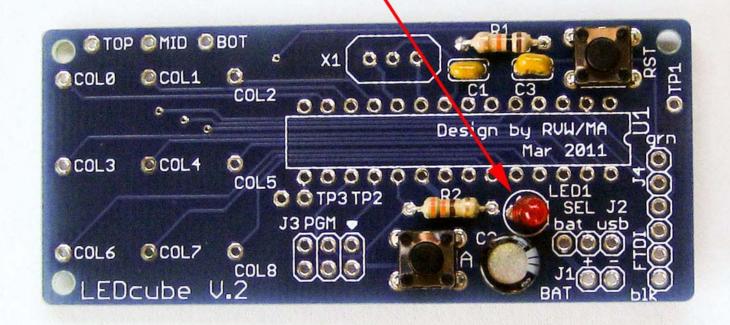


S2 soldered (no need to clip leads)

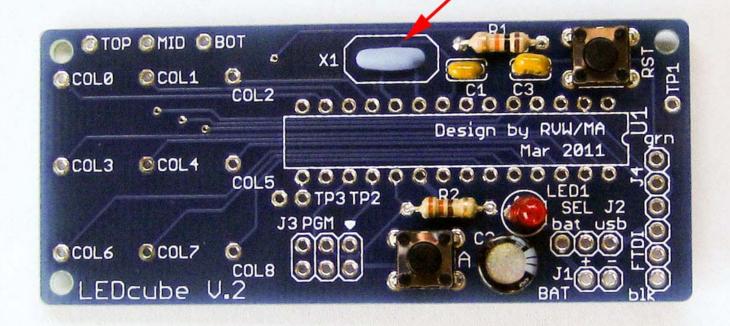




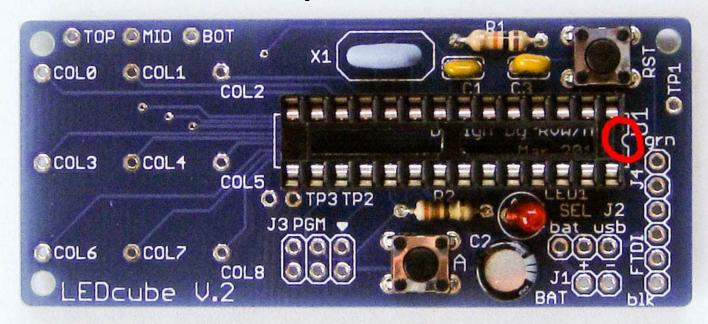
LED1 soldered, leads clipped



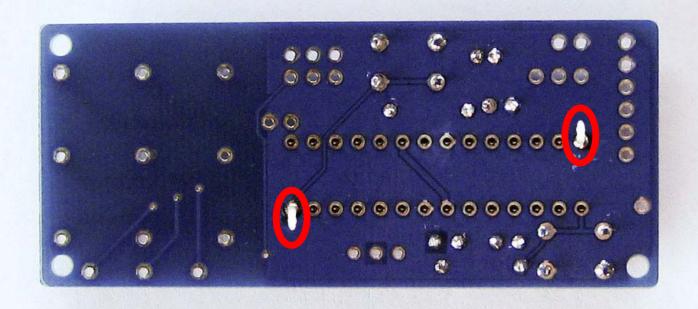
X1 soldered, leads clipped



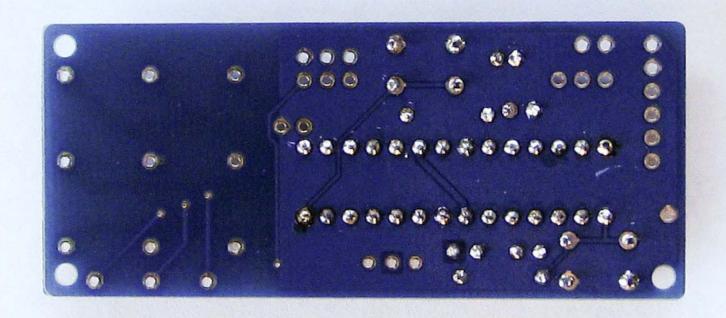
U1 socket Match the half circle notch with the same shape on the board

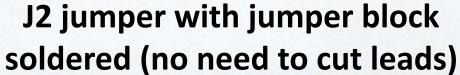


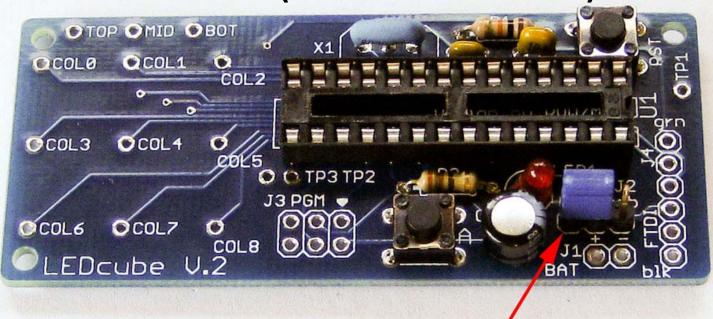
U1 socket pins on opposite corners bent out



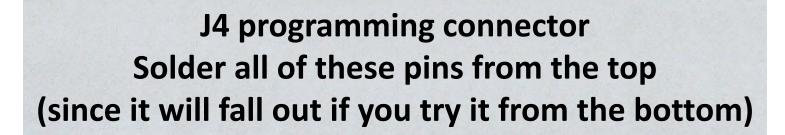
U1 socket all pins soldered (no need to cut leads)

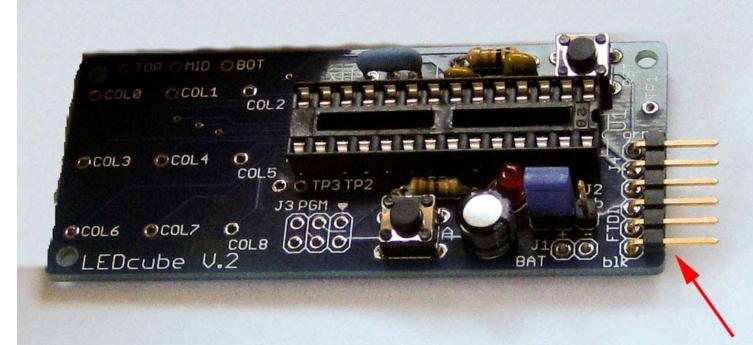


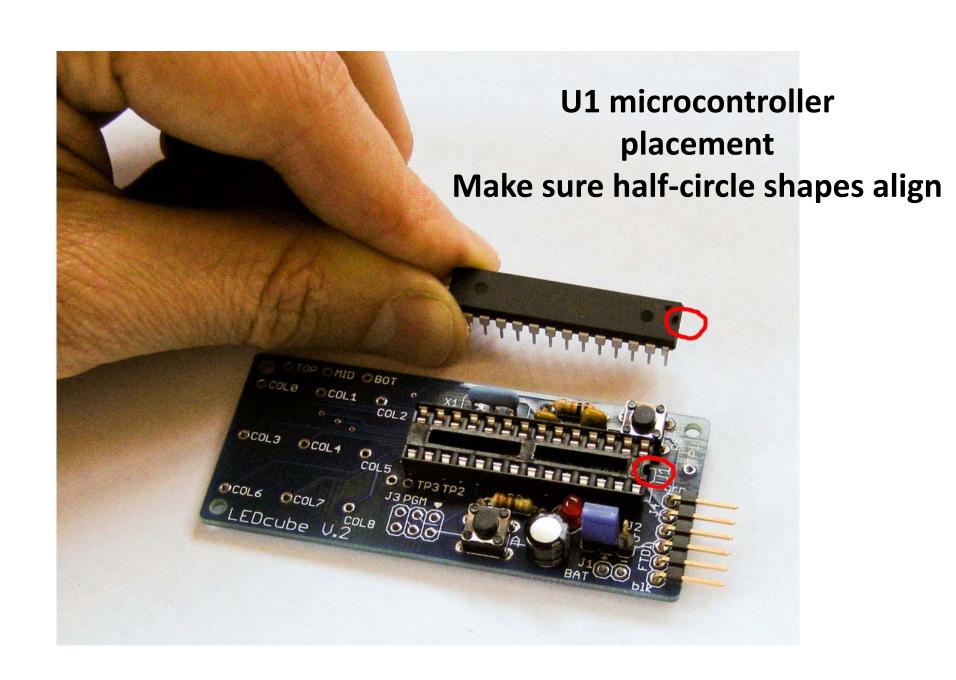


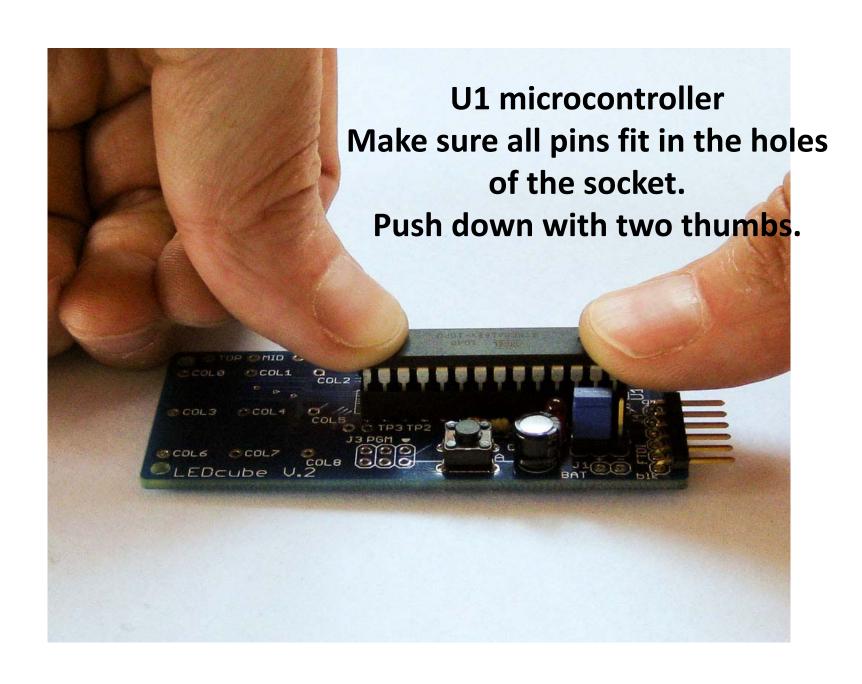


J4 programming connector placement COL5 OCOL3 OCOL4 LEDcube V.2

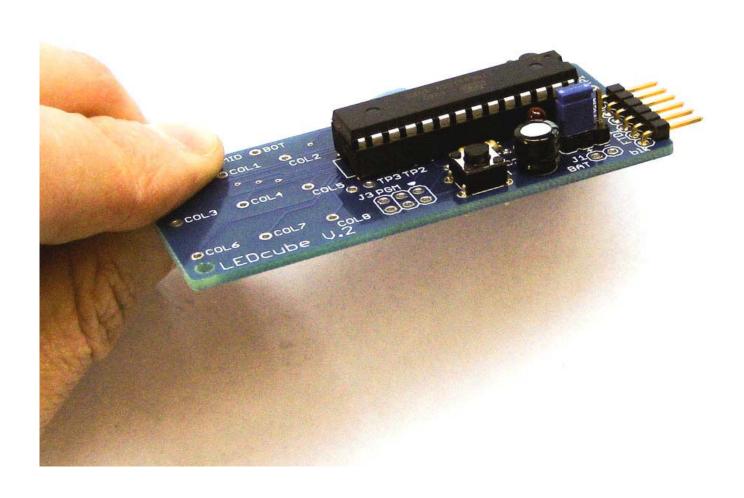




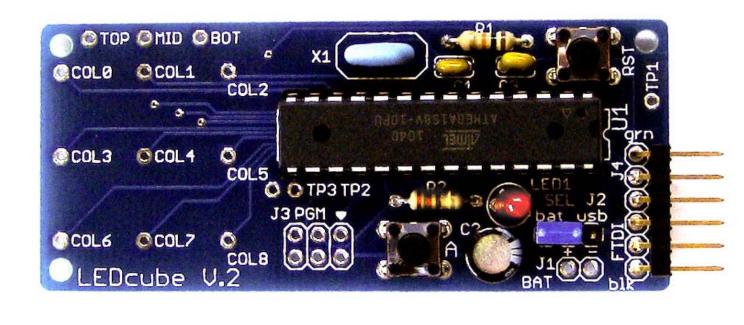




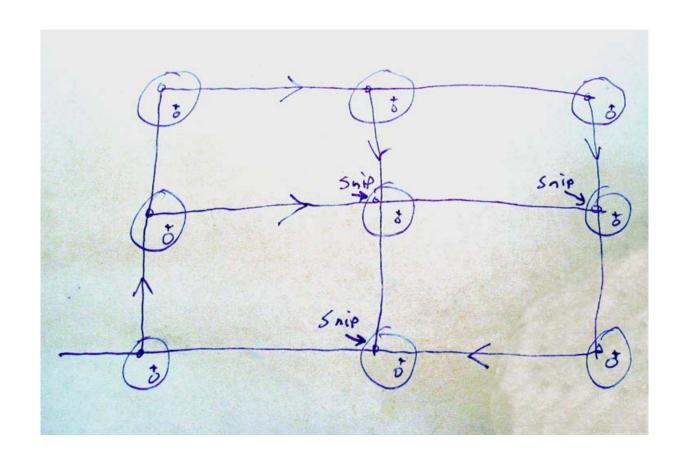
U1 microcontroller properly inserted

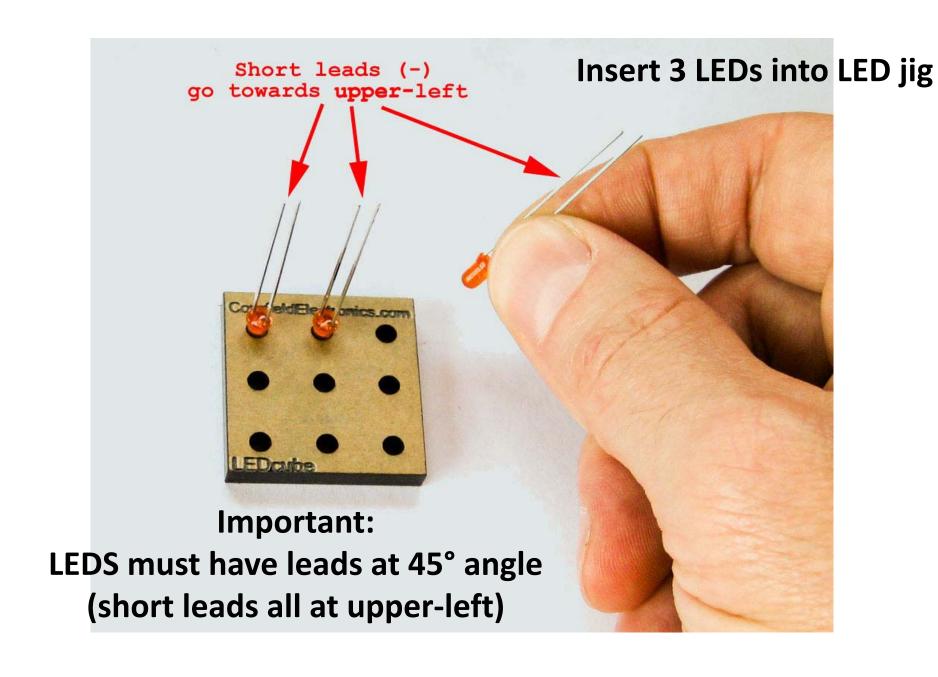


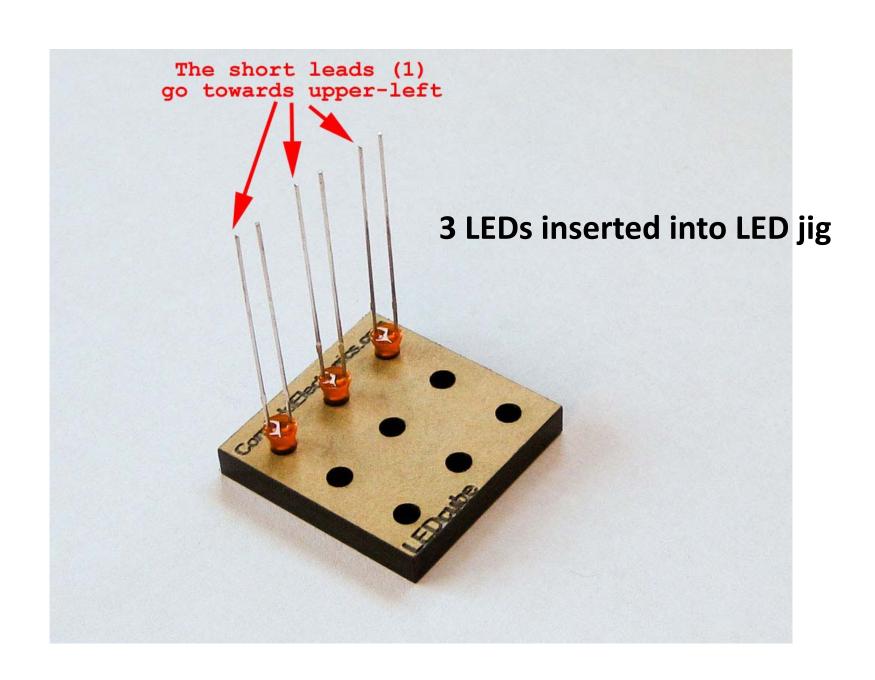
PCB is now complete!

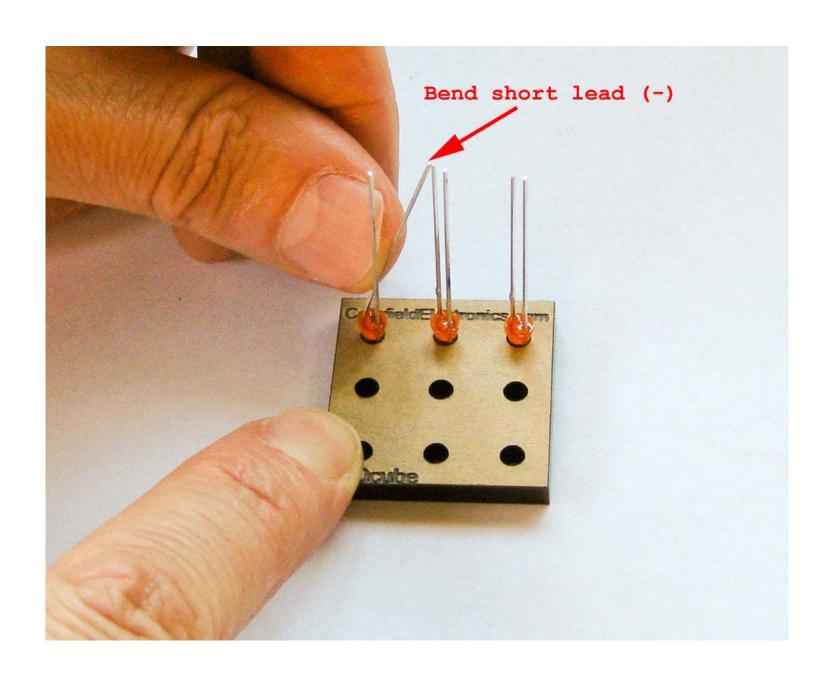


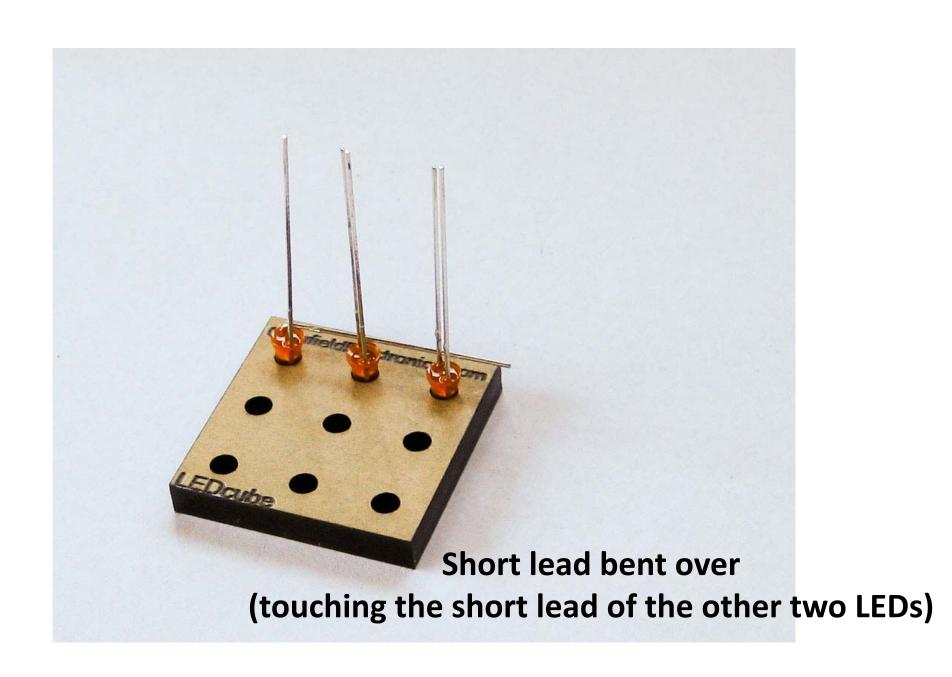
Reference drawing for one plane of LEDs in LEDcube

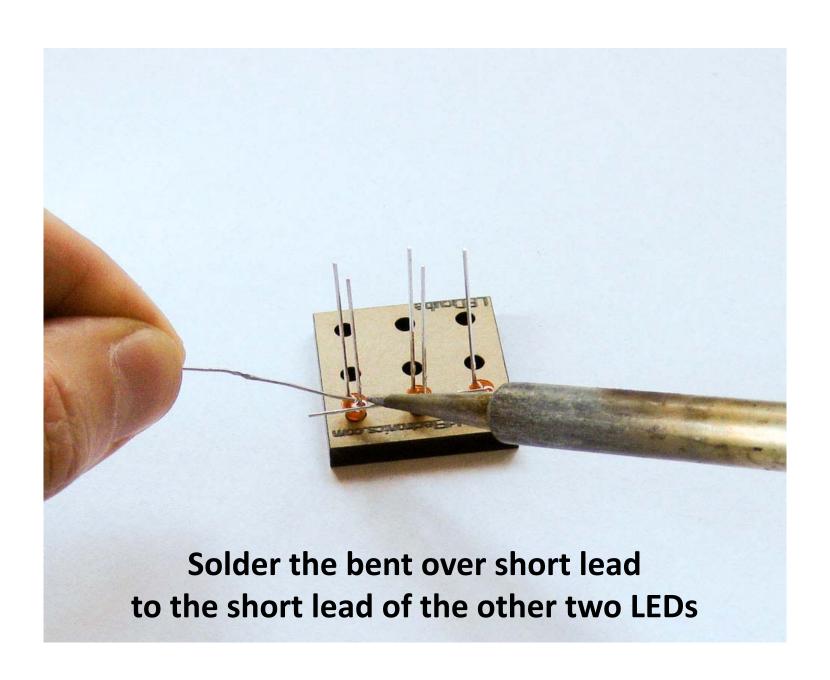


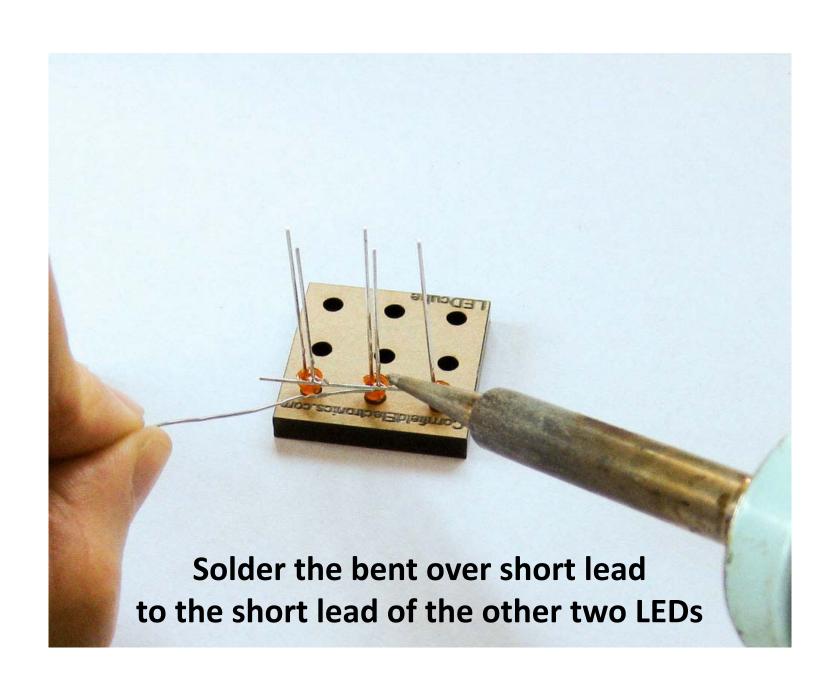


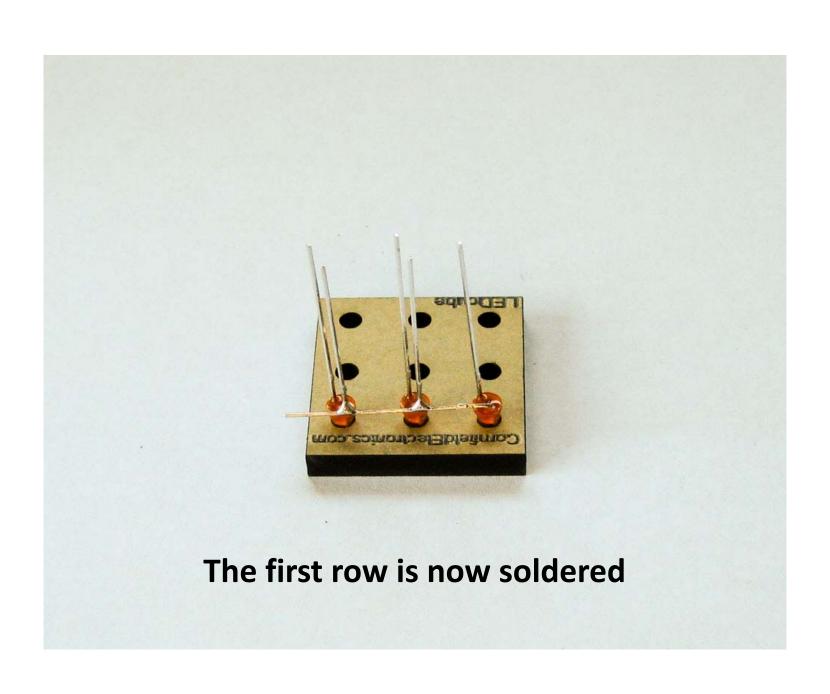


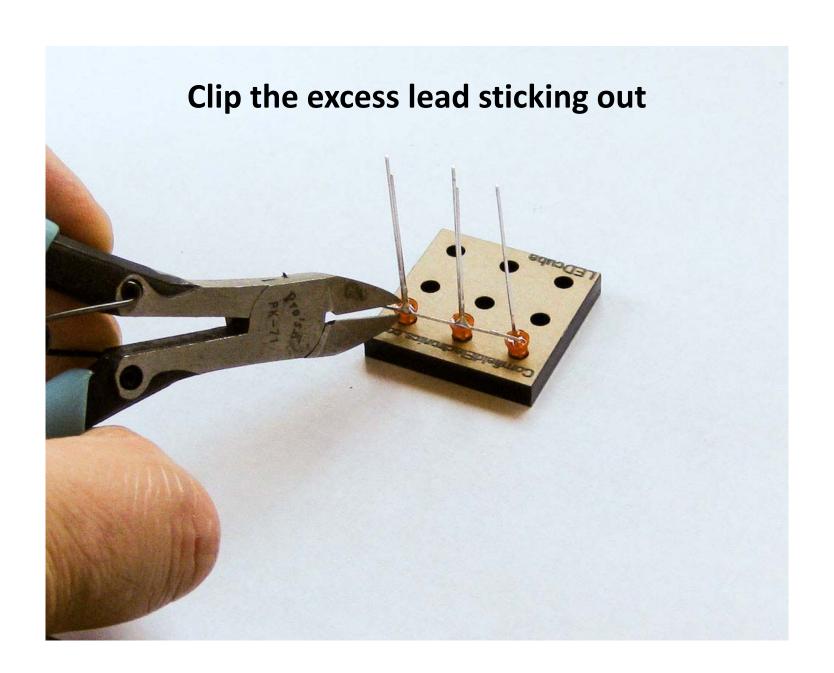


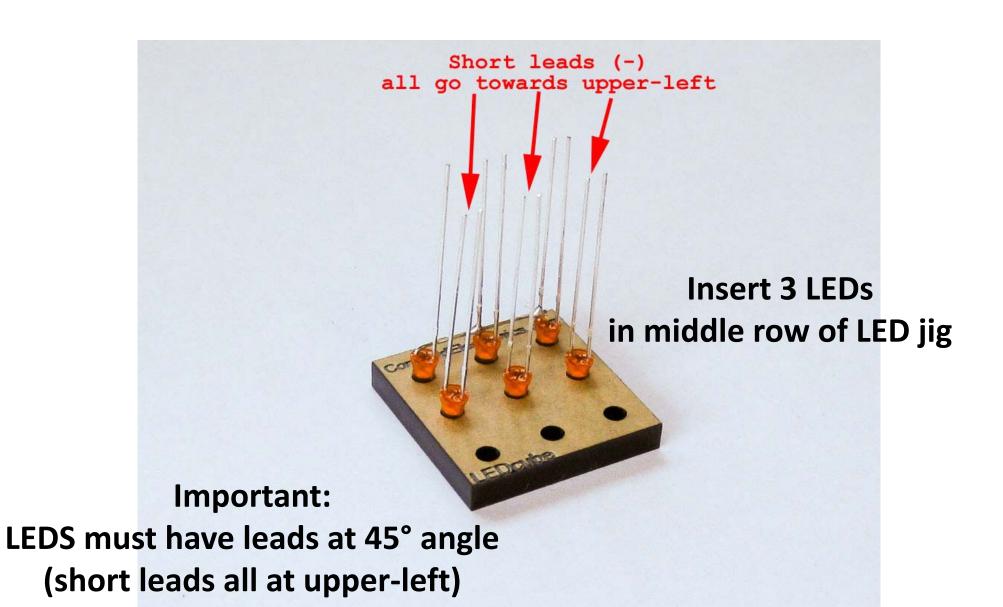


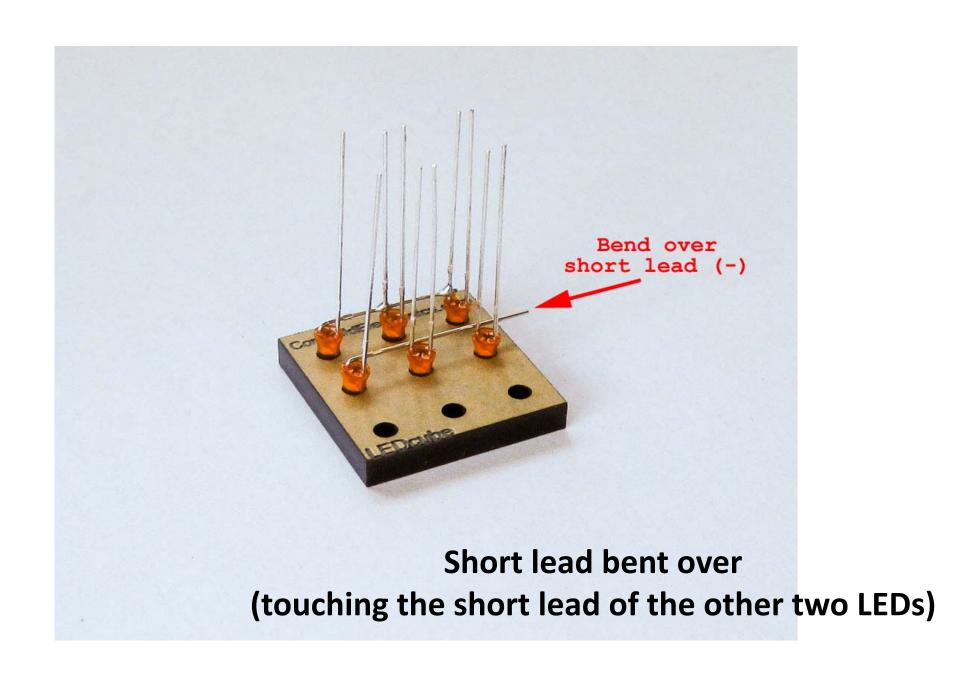


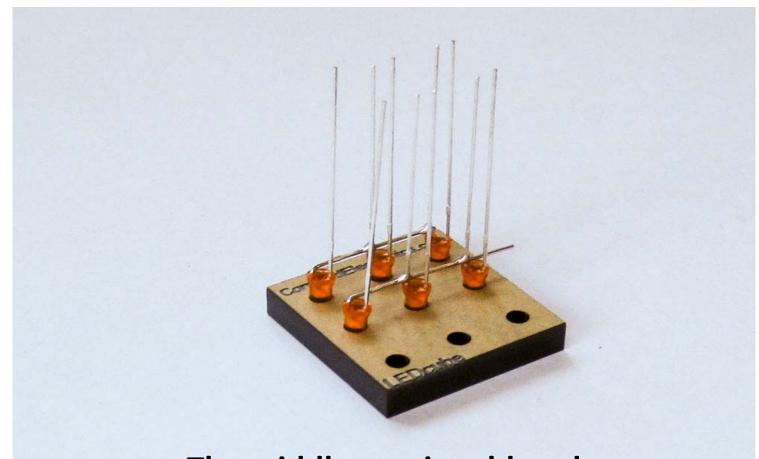




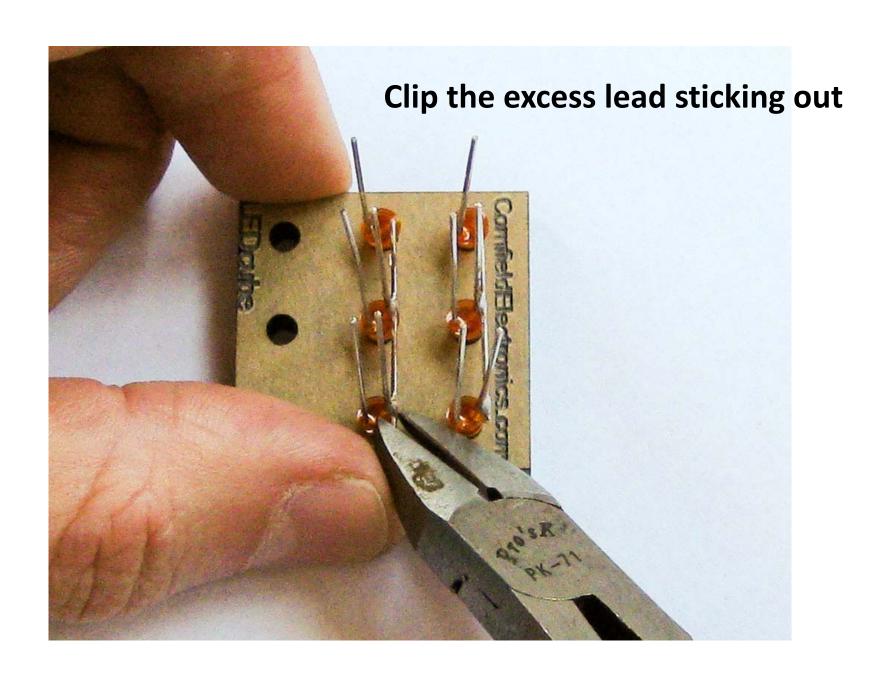


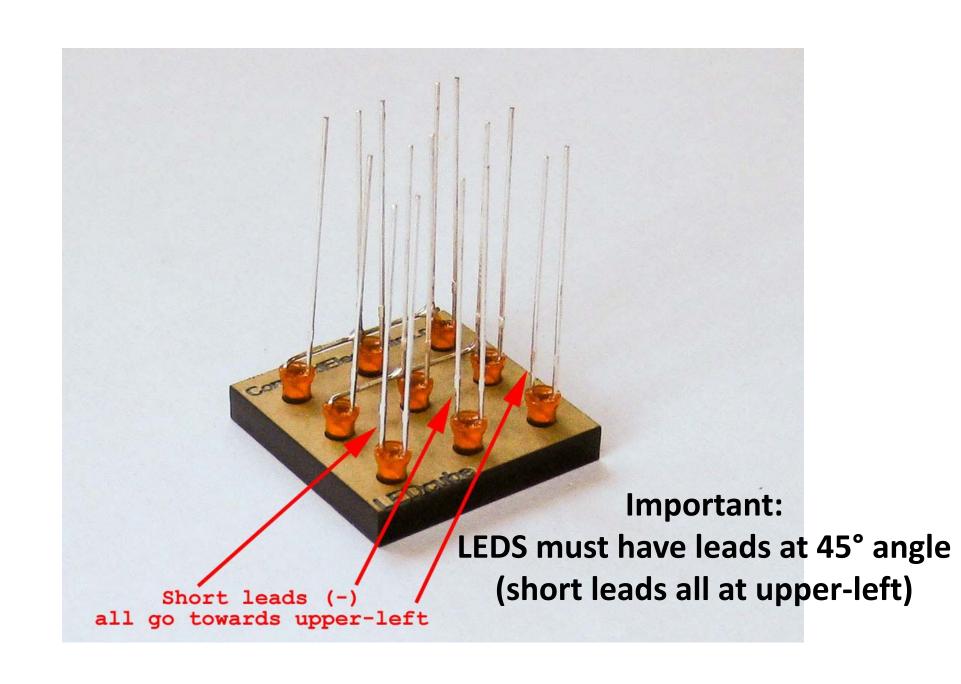


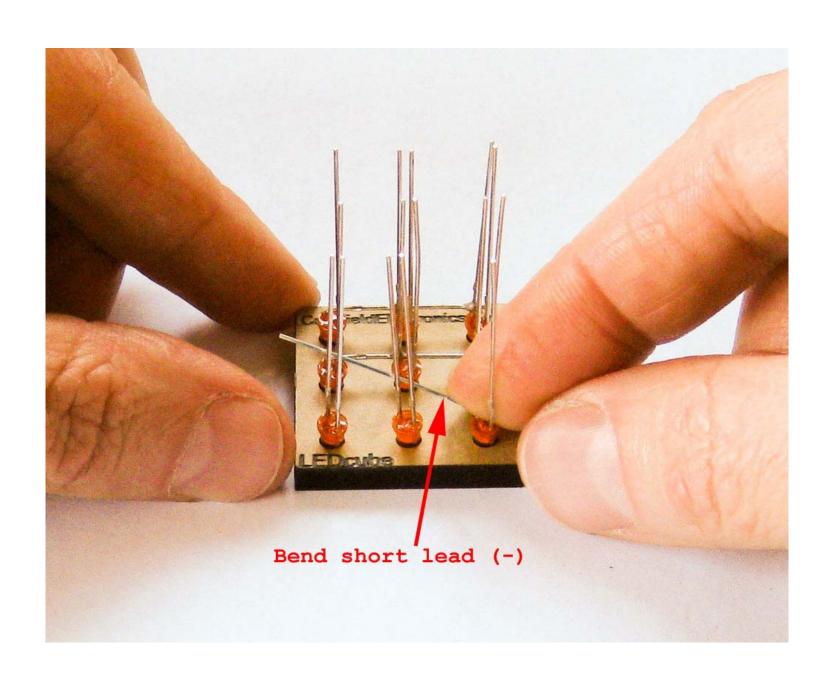


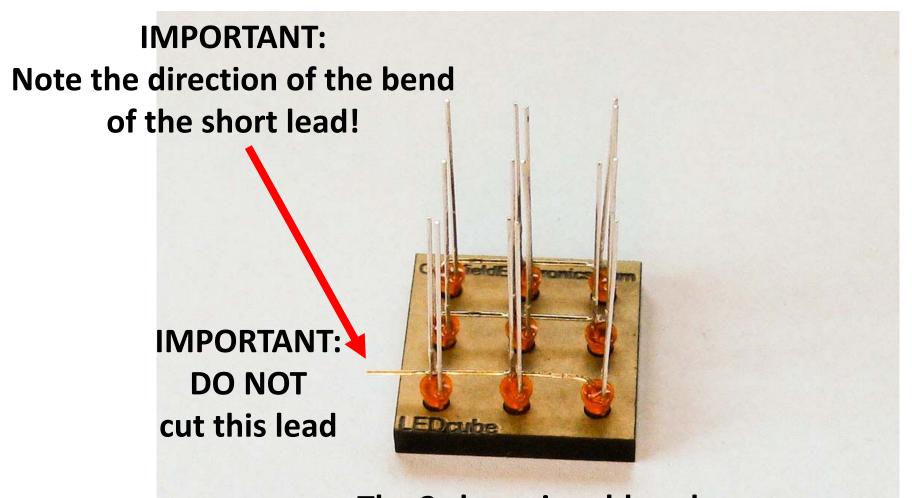


The middle row is soldered (bent over short lead soldered to the other two LEDs' short leads

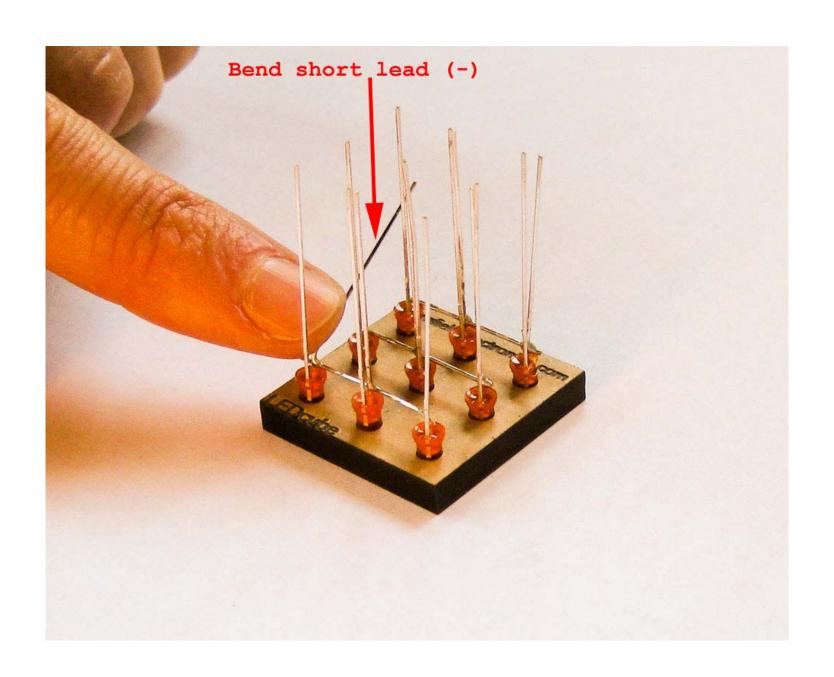


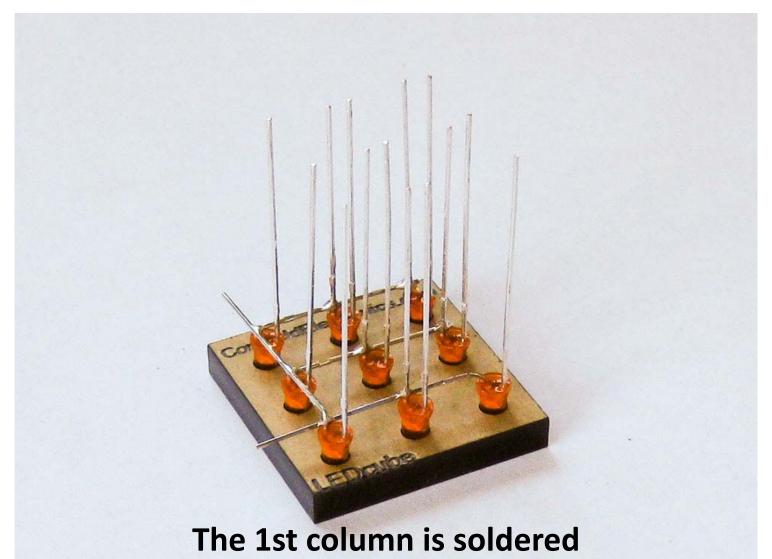




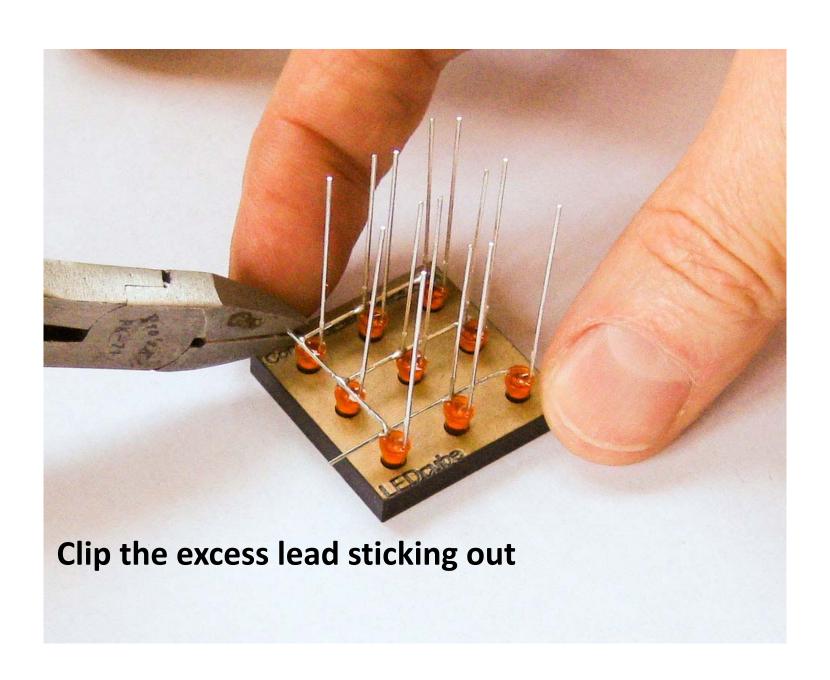


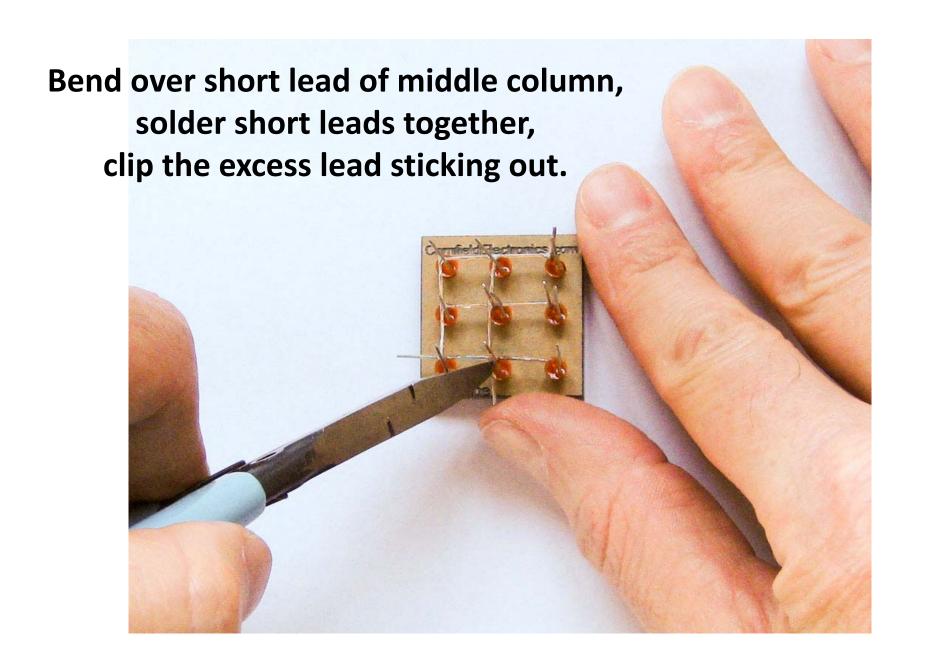
The 3rd row is soldered (bent over short lead soldered to the other two LEDs' short leads

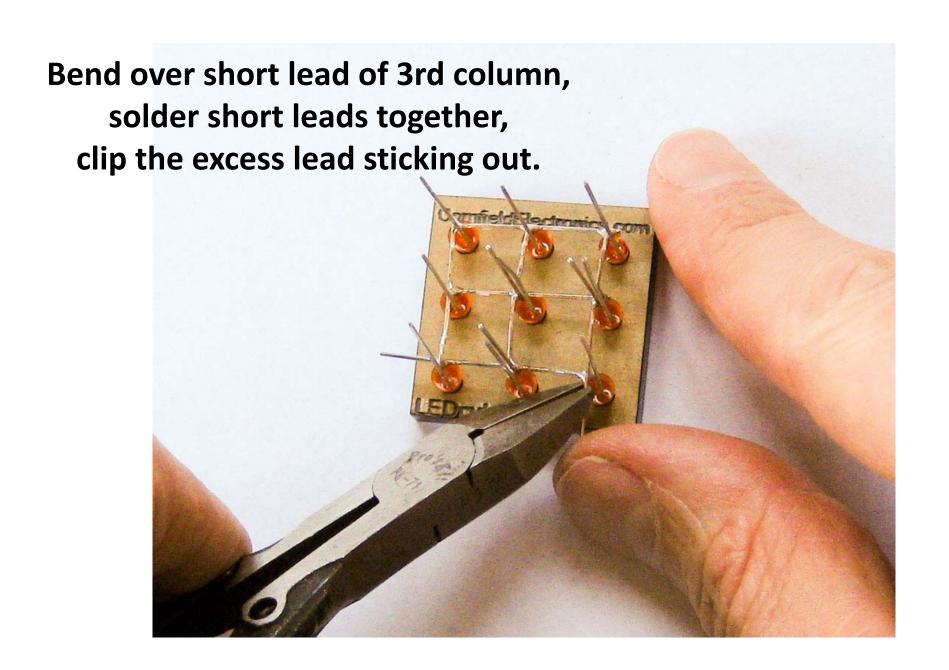




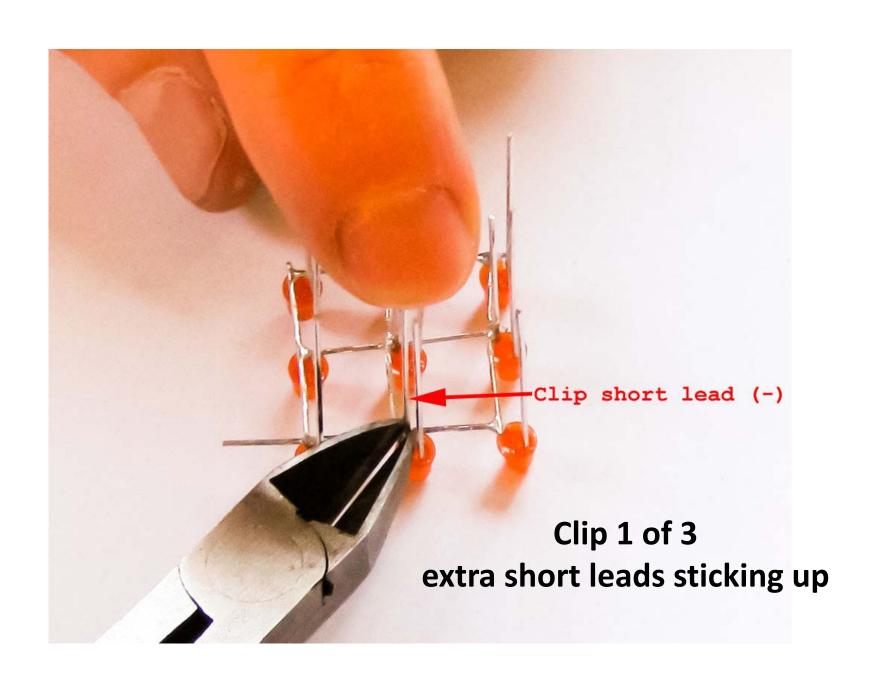
(bent over short lead soldered to the other two LEDs' short leads

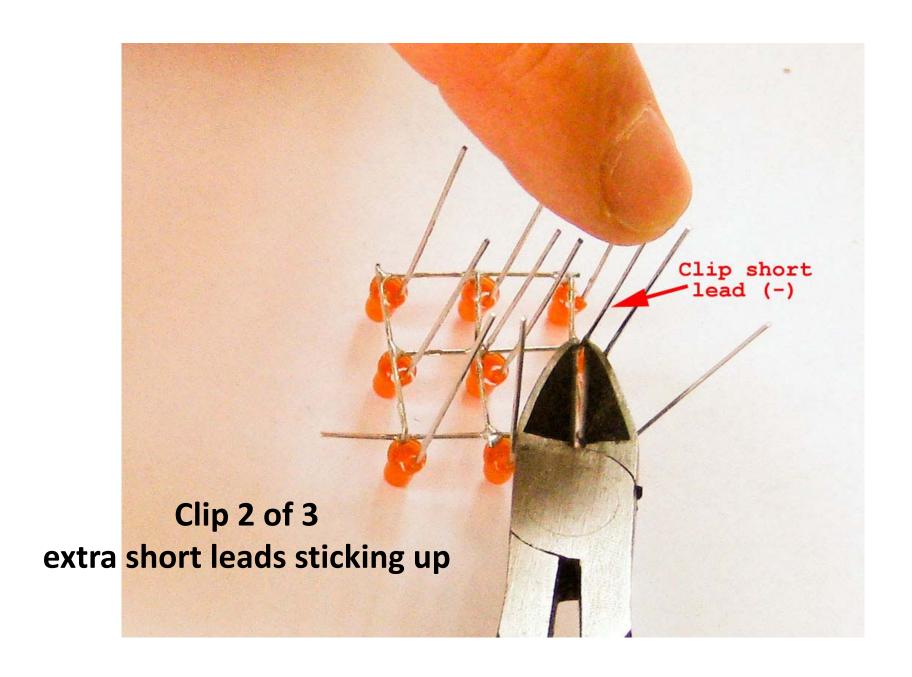


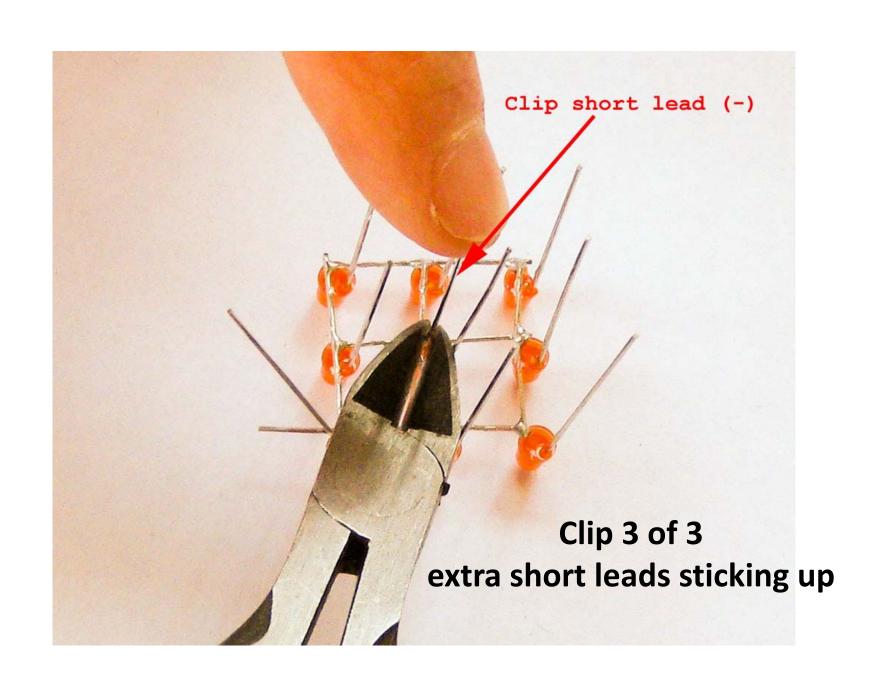


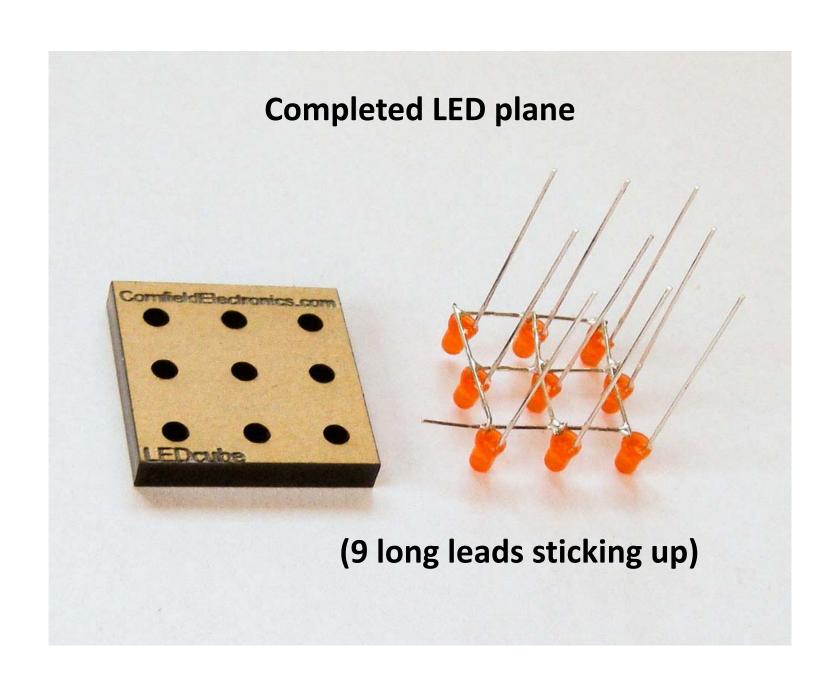


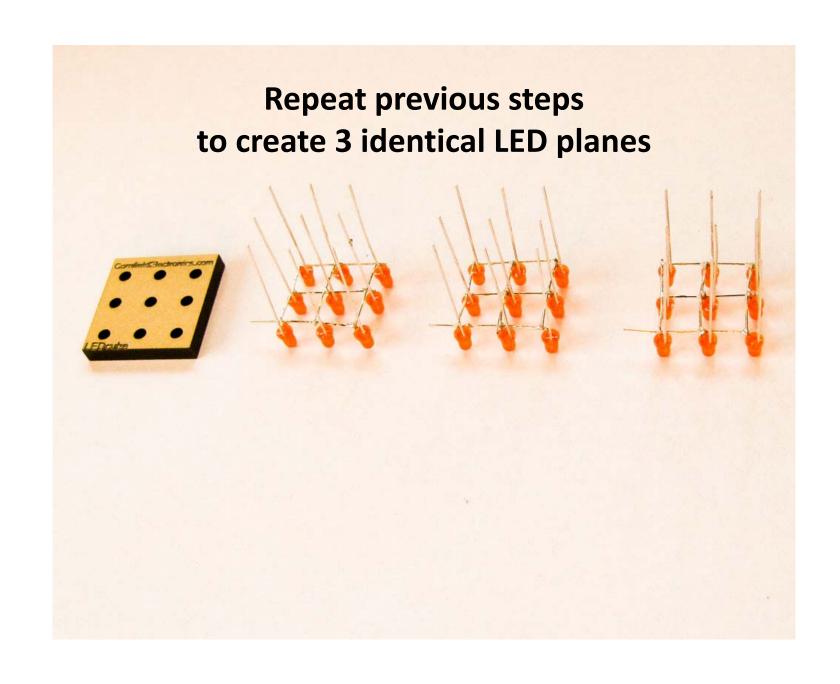
Carefully remove this 1st plane from the LED jig

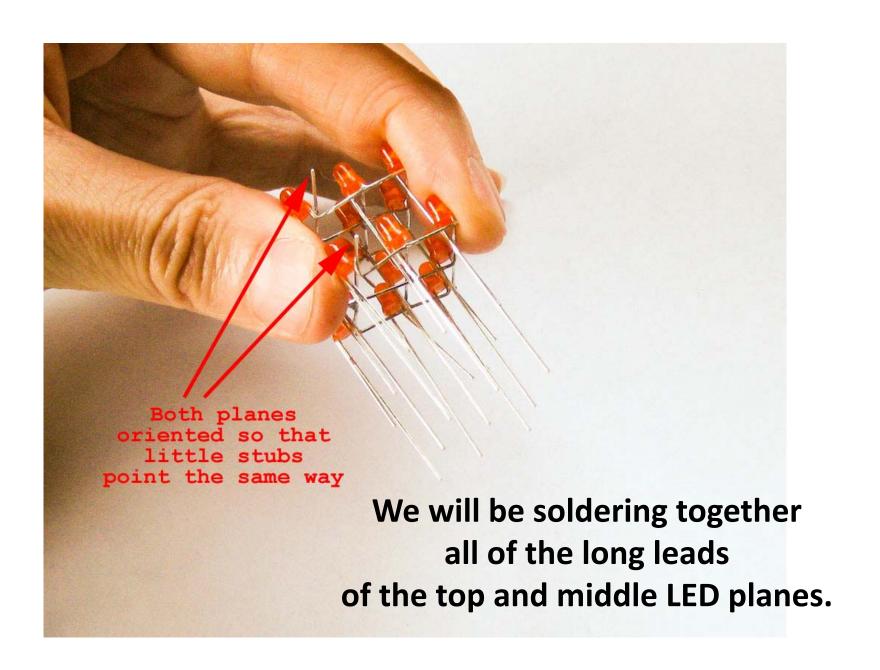


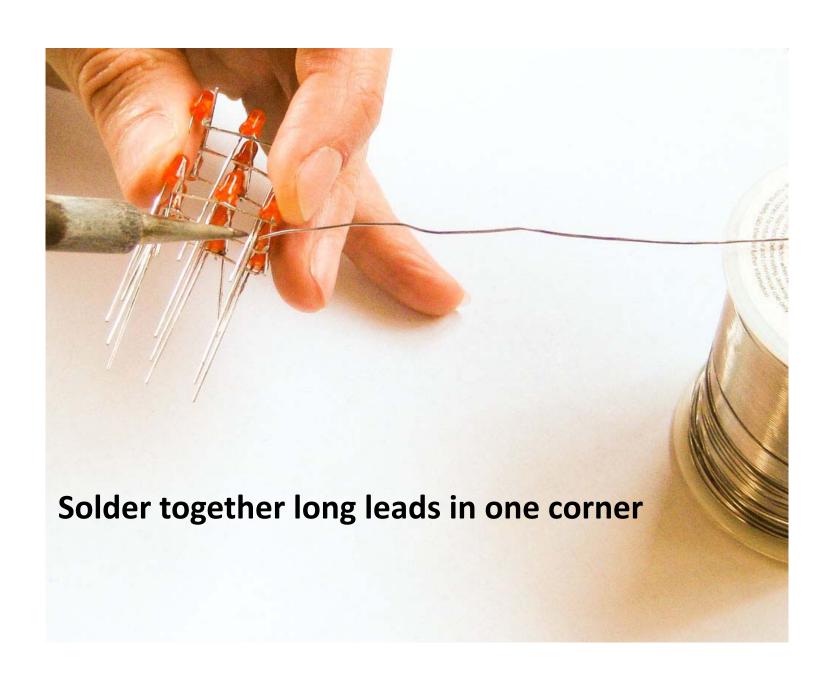


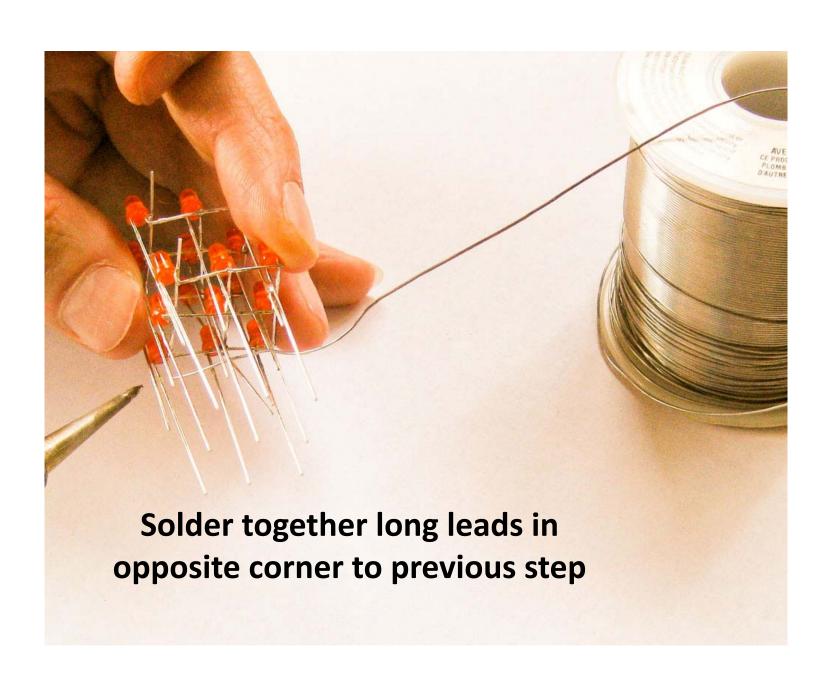




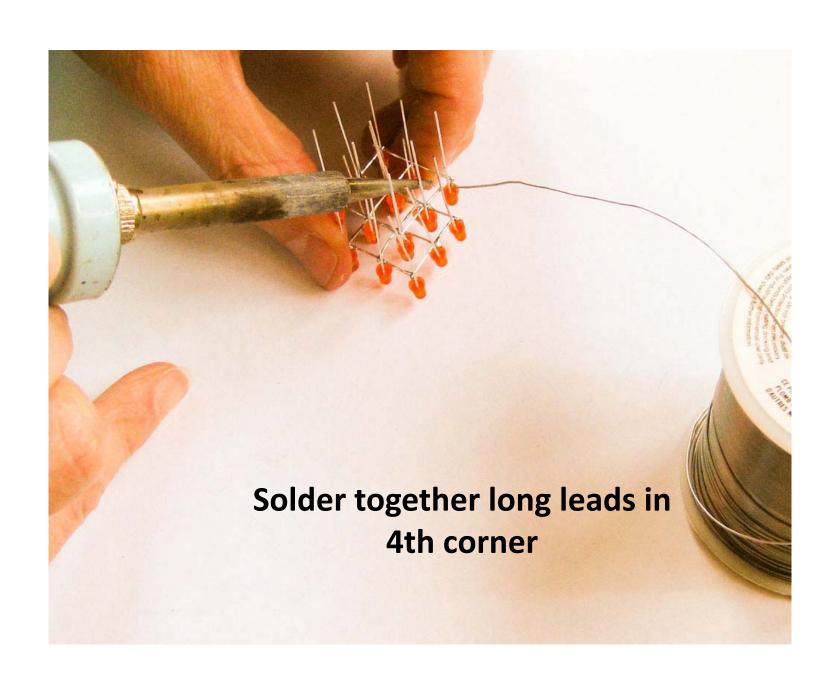


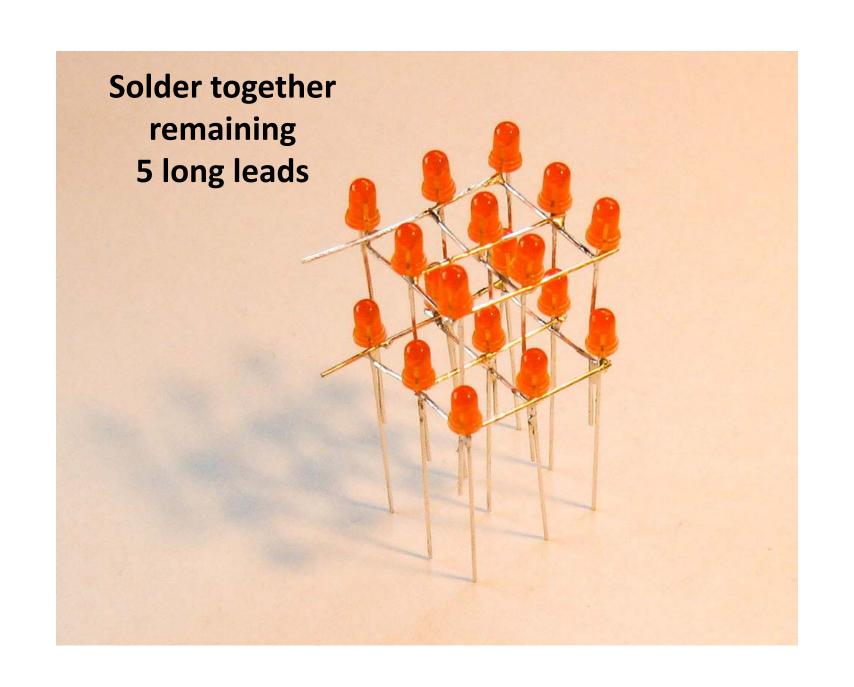


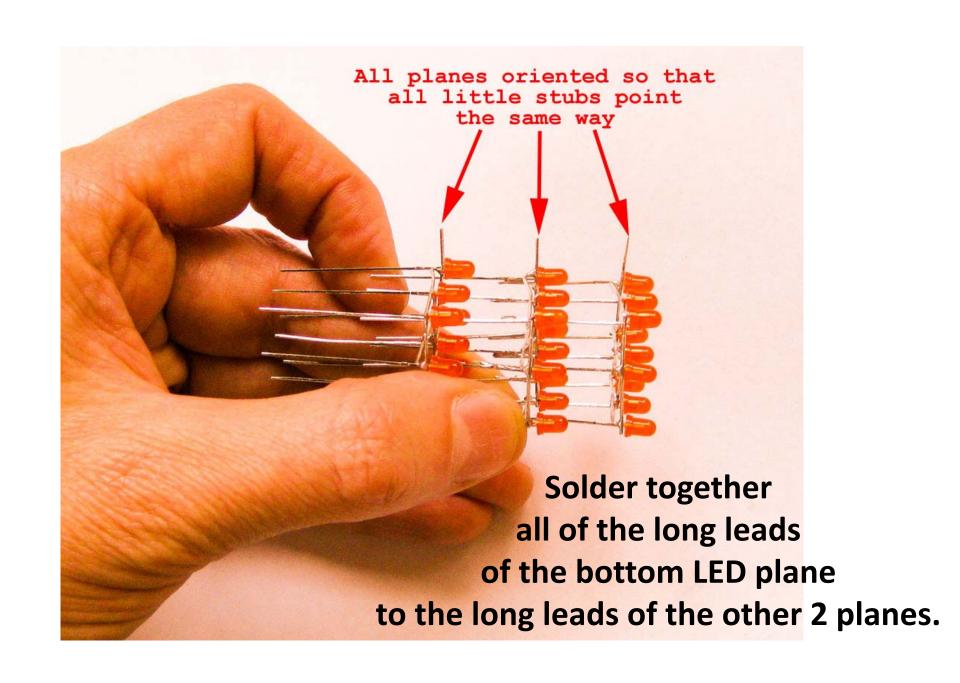


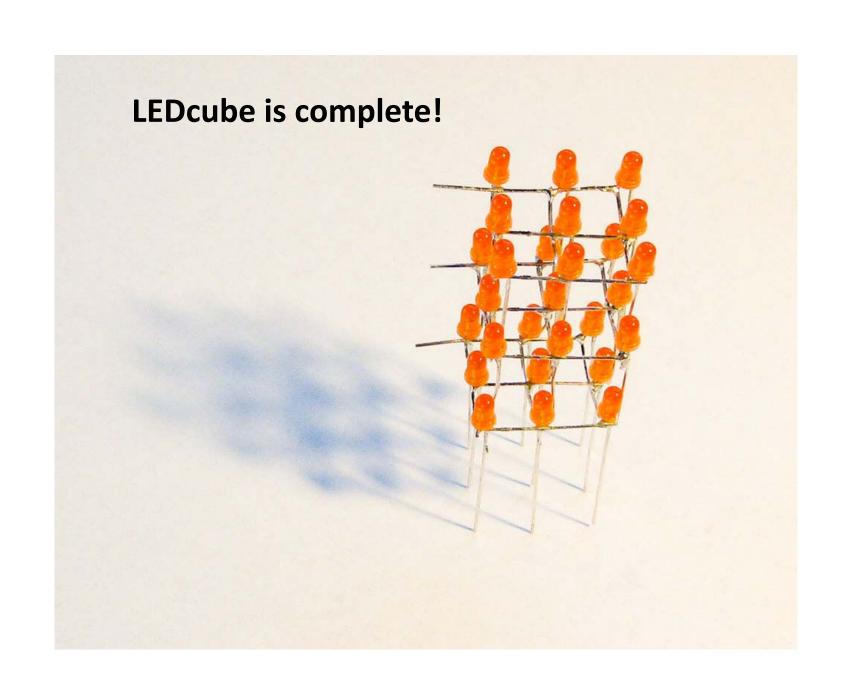


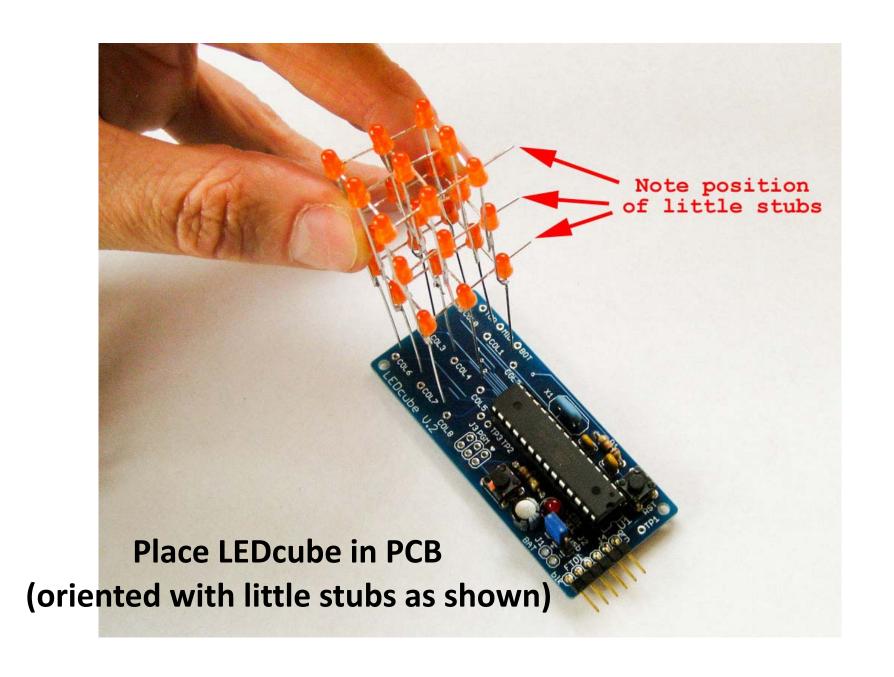


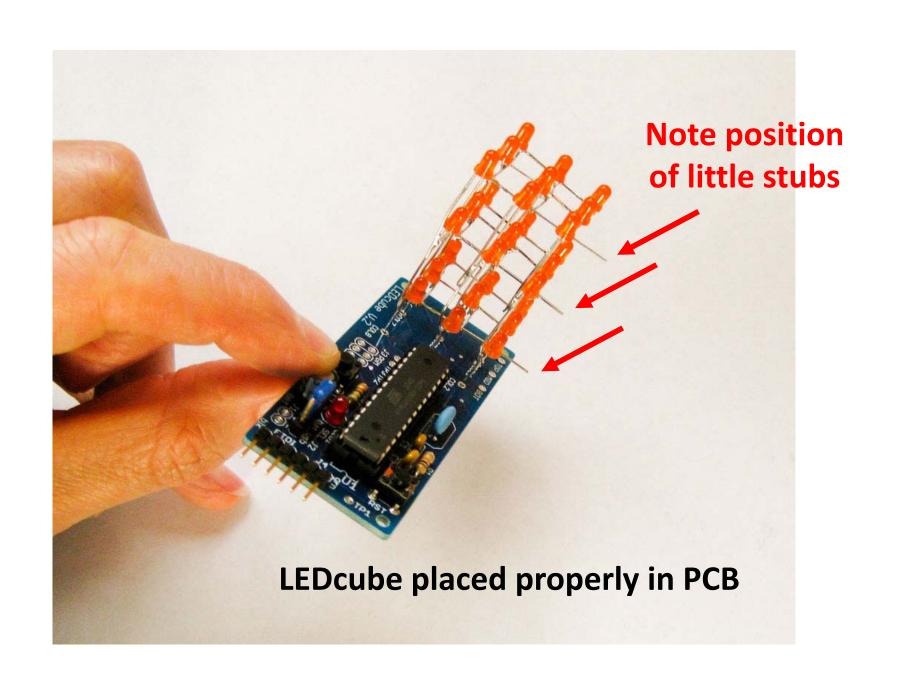


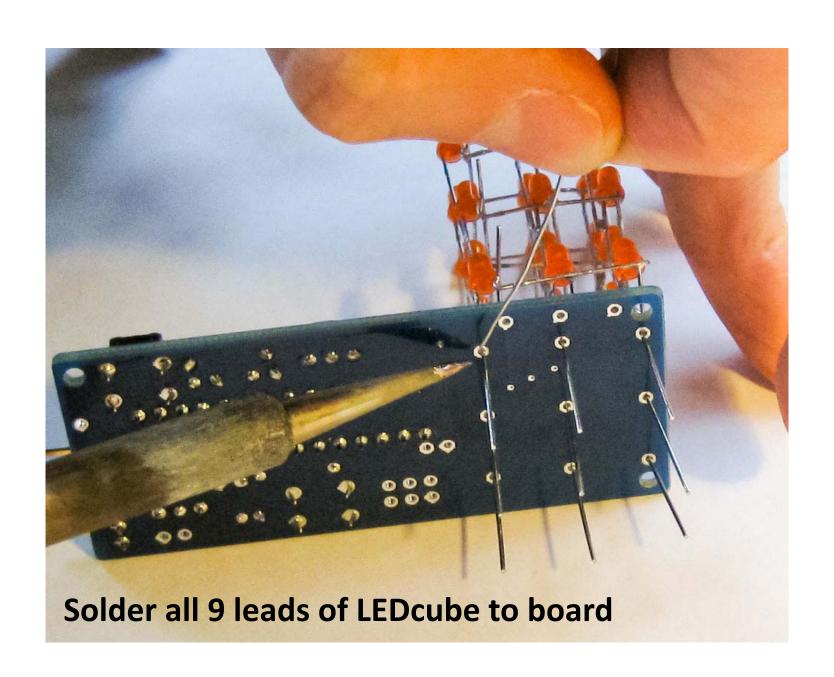




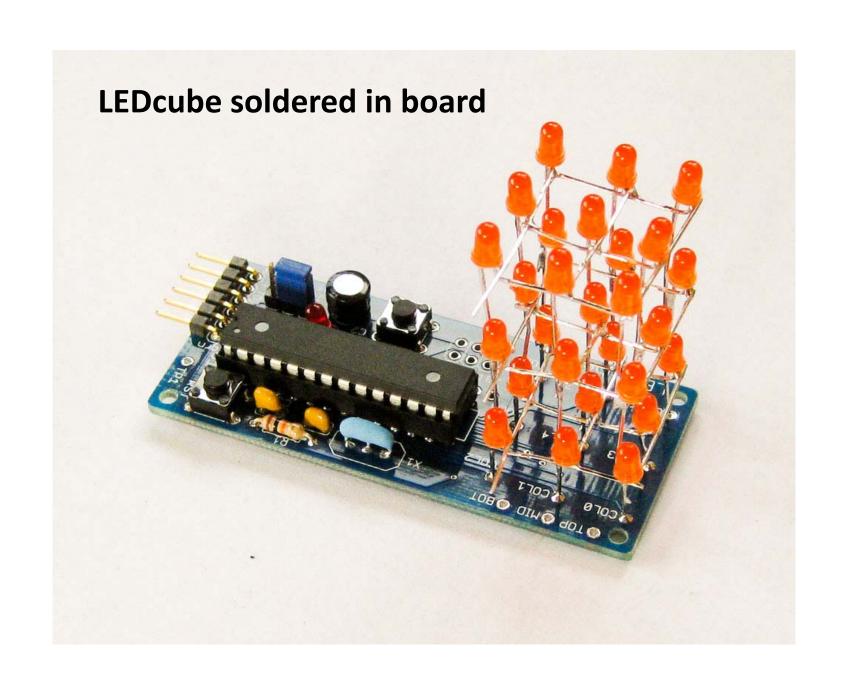


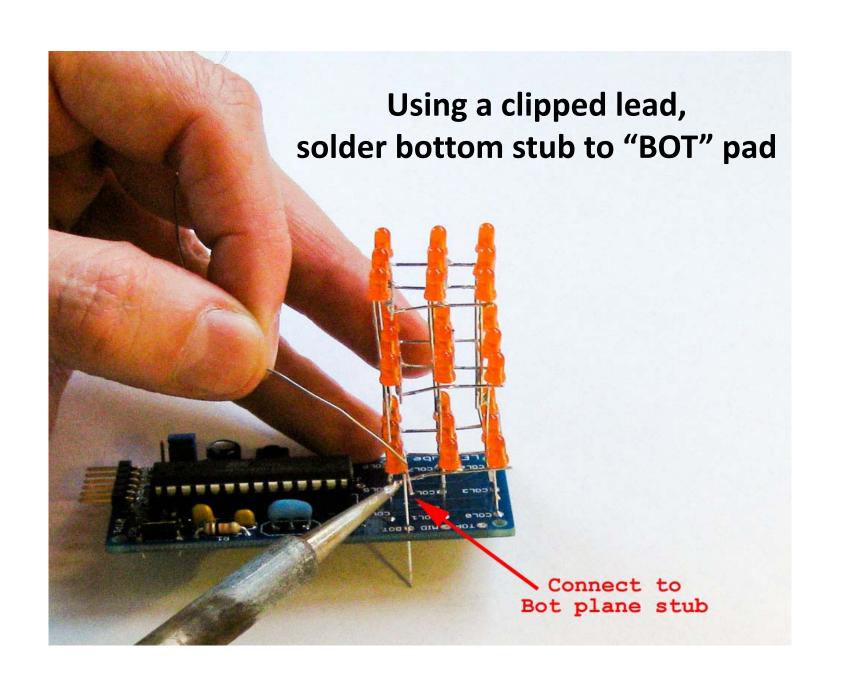


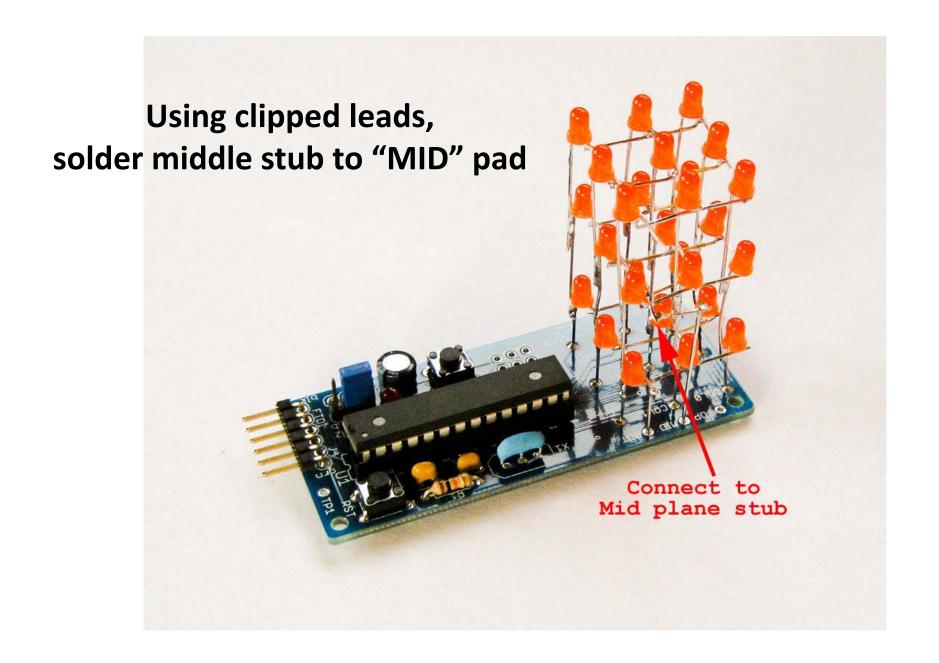


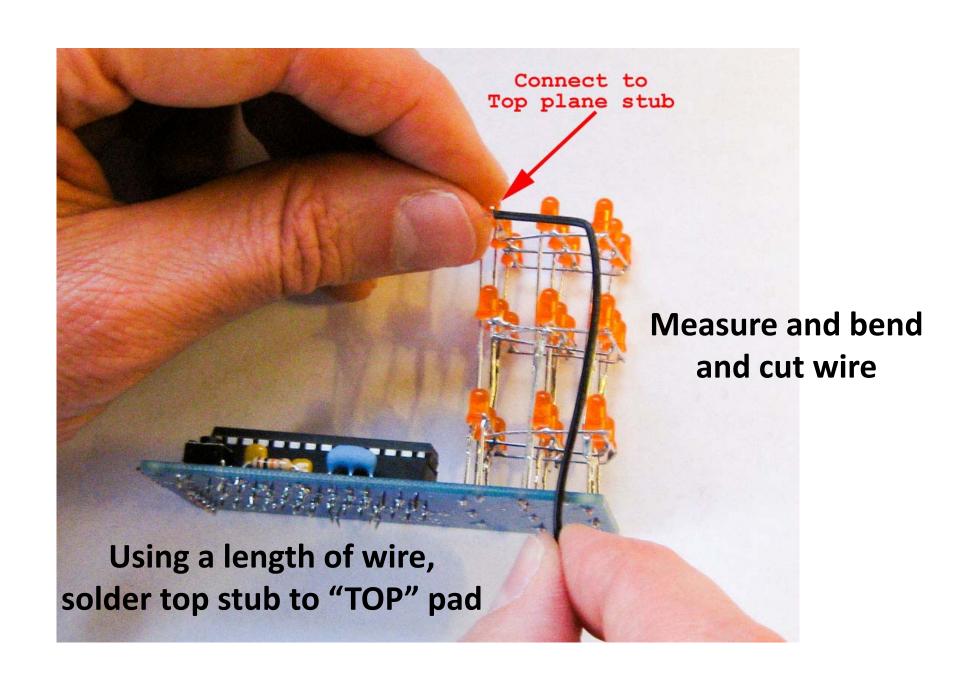


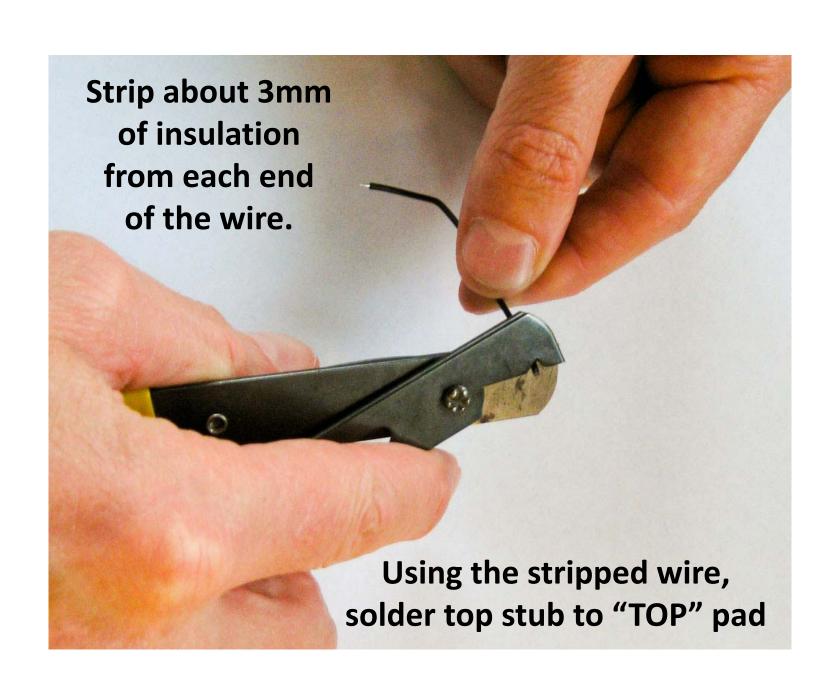


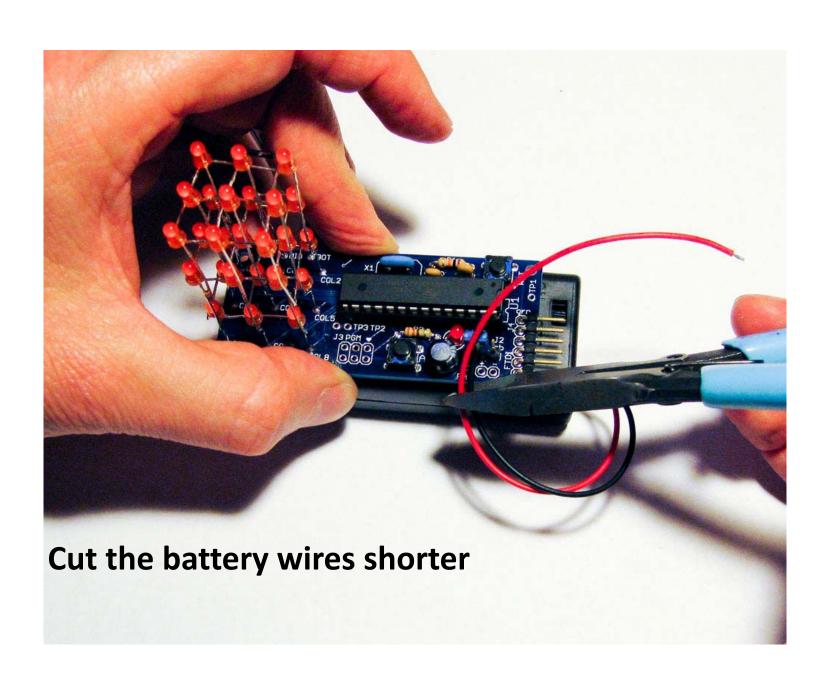


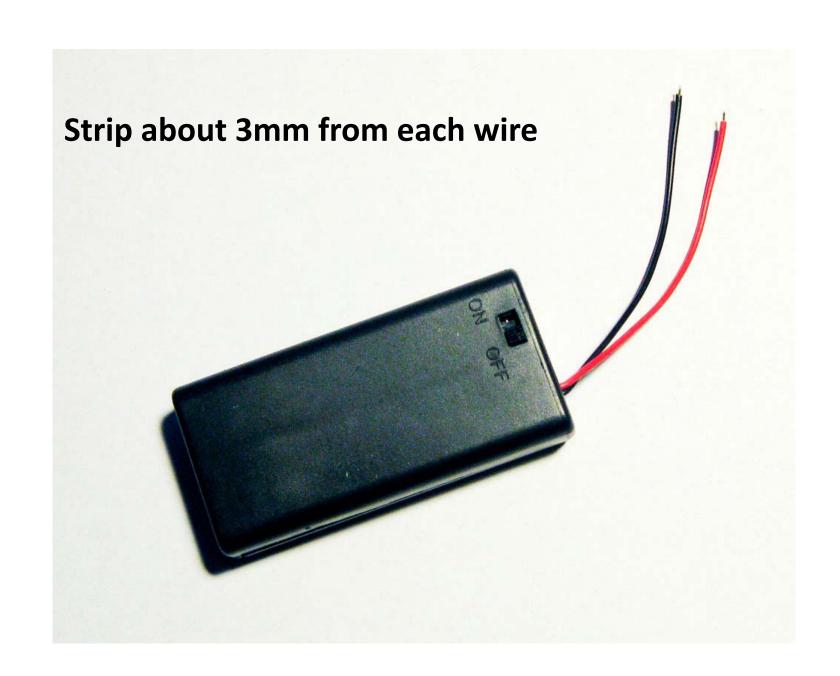


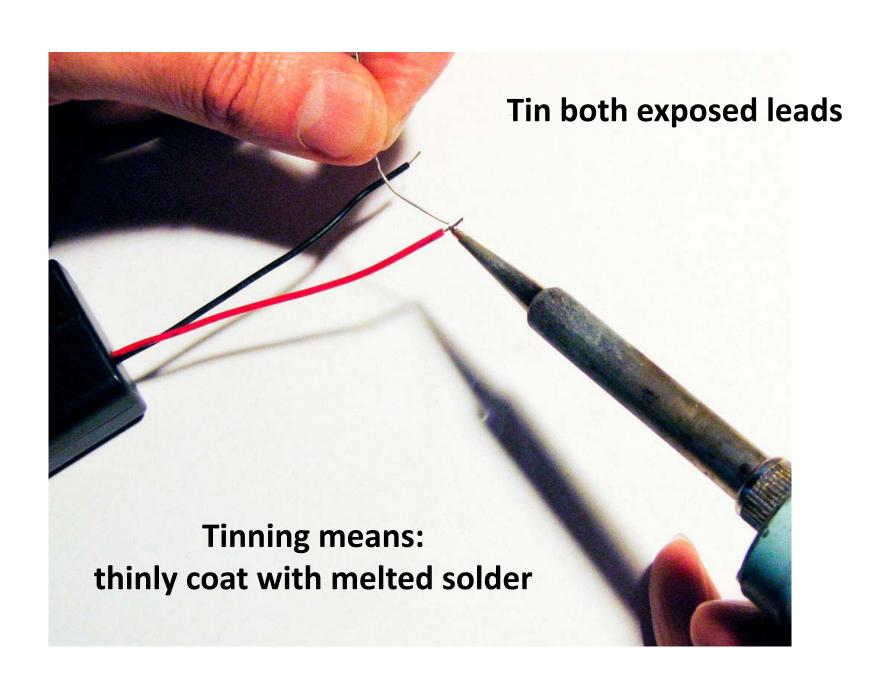


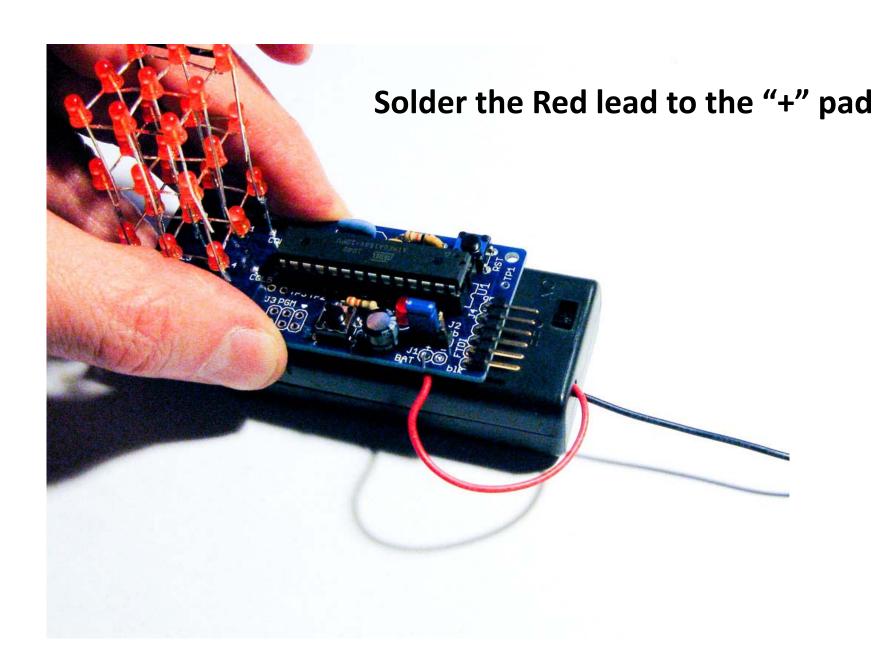


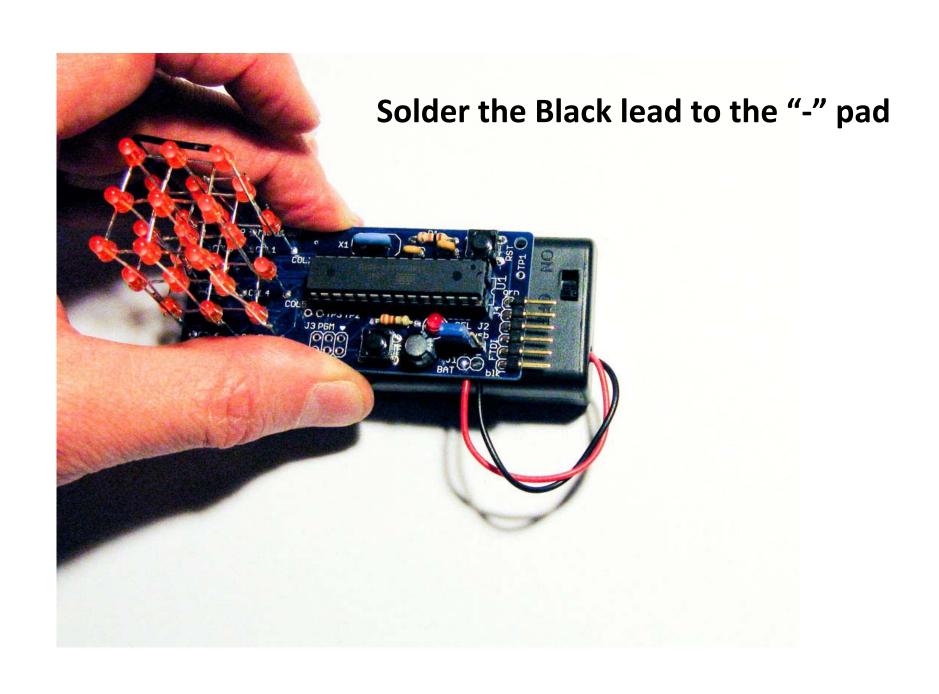












Done!

