

PCB 111000_1 Parts list

ATMEGA 328/P Rapid Electronics 73-4281 / 73-4283

SM PB switch Rapid Electronics 51-0709 One off required per pcb

TH PB switch Rapid Electronics 51-0711 Three off required per pcb

UNO PCB Radio Spares 769-7409

Watch crystal Radio Spares 547-6985 or 478-9268

(Connected between B6 and B7 of the Atmega)

Display x 2 CC56-21SURKWA Radio Spares 872-2014

CA56-12SYKWA Radio Spares 872-1954

Dual CC LED Radio Spares 228-5764

6 way header x 3 Radio Spares 681-2994

8 way header Radio Spares 681-2997

Resistors and capacitors (All Surface mount size 1206)

R16 100R

R1-7, R10 – R12 220R (560R on cct. diagram not really recommended)

R8 – R9 560R

R17 1K

R14 – R15 3K9

R13 10K

C1, C5 – 7 10nF

C3-4 100nF

C2 4u7

Recommendations for assembly

Fit all surface mount components and the link that determines whether common cathode or common anode displays are to be fitted (see photos).

Plug the headers into the UNO. Place the board over the headers component side down.

Trim the headers that would otherwise interfere with the displays.

Solder the PCB to the headers

Solder on all switches.

Unplug the pcb from the UNO.

Solder the crystal to the component side of the pcb.

Add the Atmega 328.

Add the displays (see photo for orientation)

Finally add the LED and plug the pcb back into the UNO.

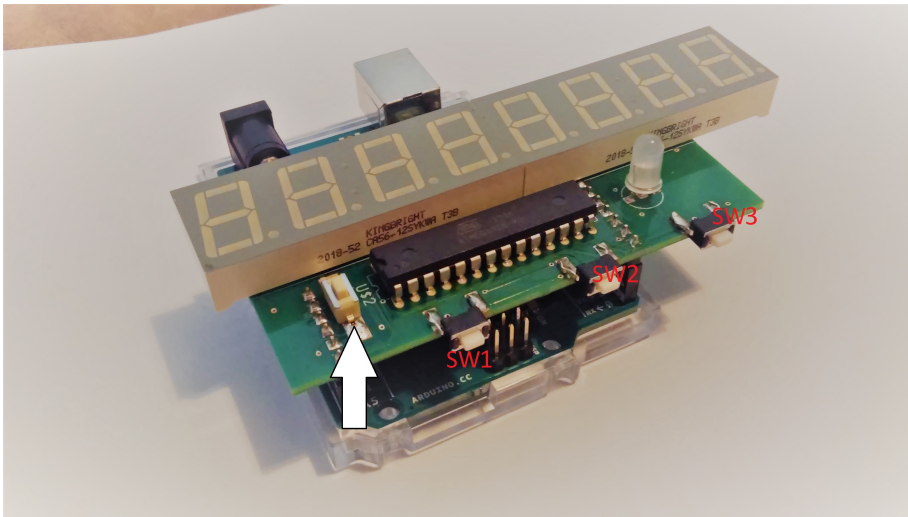


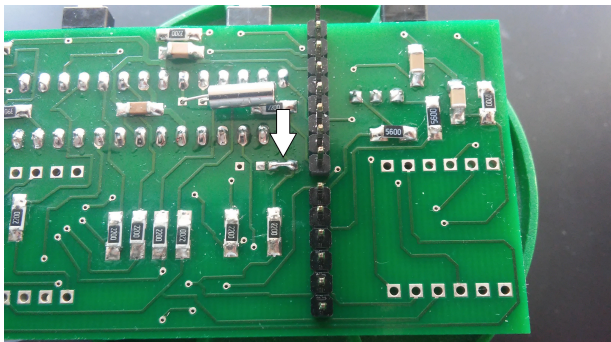
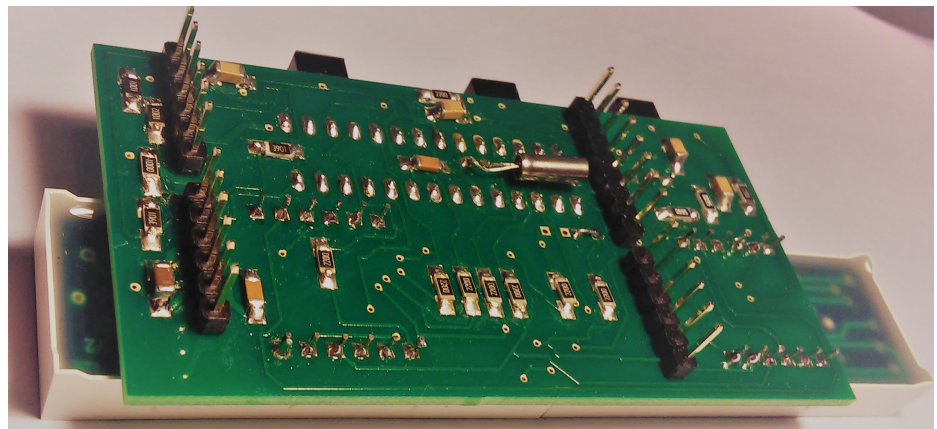
Photo of
PCB111000_UNO

Note:
Orientation of the
displays.
User switch numbers.

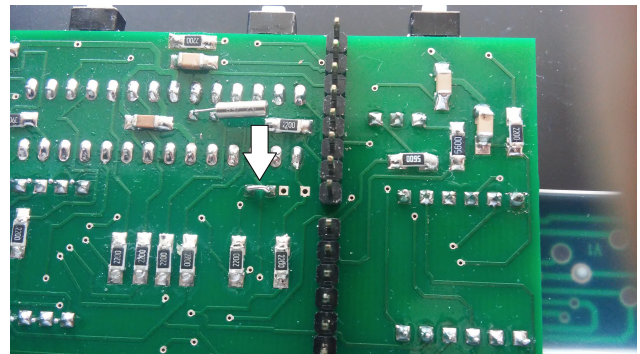
White arrow shows
PCB_A reset switch.

Orientation of LED is not
critical.

Photo of PCB_A



PCB_A link for CA display



PCB_A link for CC display