

# Assembly Guide

Applicable Model: 08503K

## Tools required

1. Soldering iron (20 - 25W)
2. Thin raisin-core solder of ideally 0.8mm diameter
3. Diagonal flush cutter
4. Screw driver

## Important Notes

1. Follow the numbered order to install.
2. Only install parts given in the part list.
3. Pay special attention to polarity and orientation for electrolytic capacitors, headers, switches, and connectors (see detailed photos).

## Part List

Descriptions	Qty	Ref.
Connector, USB mini-B	1	J10
E-cap, 100uF/16V	3	C5, C9, C10
E-cap, 470uF/25V	2	C3, C4
Connector, DC005, 2mm core	1	J1
Header, 5 X 2, 2.54mm	2	J6, J8
Header, 16 X 1, 2.54mm	1	
LCD, 1602A, white-in-blue	1	LCD1
Pushbutton, lockable	1	SW1
Pushbutton, non-lockable	20	SW2-21
Rotary encoder, w/ pushbutton	1	SW22
BNC connector, panel mount	1	J4
Metal lead	1	
Knob cap	1	
Panels, front and back	1 each	
Standoff, M3 x 12	4	
Standoff, M3 x 12 + 6	4	
Screw, M3 x 5	8	
PCB, SMD pre-soldered	1	

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## A. Install Components at Back

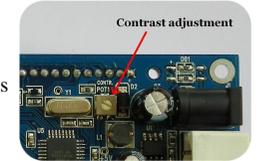
**Important Note:** Cut left-over leads flush after soldering for all E-caps

5 Short ends go into PCB

2, 3 Pos (the longer) lead goes into sq. pad

## Powering up the first time

1. Check and make sure part polarity and soldering are correct and good.
2. Connect 15V DC power supply (current capacity > 200 mA) to J1. Push SW1 to turn the unit on.
3. You should see LCD backlight up. The screen may appear blank due to incorrect contrast setting. You need to adjust the trimmer POT1 (see photo) for correct contrast.
4. Use keypad to test various functions.



## B. Install Components at Front

6a Long ends go into PCB

6b Place LCD and solder short ends at top

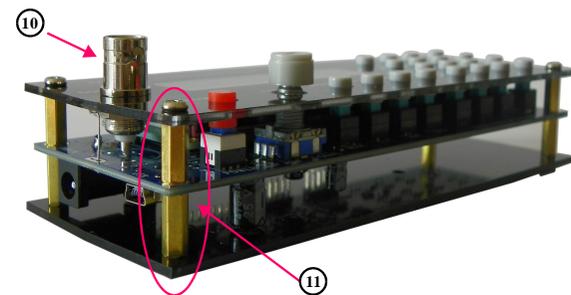
6c Turn over and solder long ends at back

7, 8

**Important Note:** Do the first time power-up check after finishing components at front side. Please see instructions at top-right corner of this sheet. If everything goes normal proceed to step C below for installation of panels

**!!! IMPORTANT NOTE:** For all the push-buttons, the side with two dips must face the end where power connector locates.

## C. Mount Panels



10a BNC connector

10b Cut wing off spring washer

10c Solder metal lead and bend to shape

10d Mount to panel with lead at edge

10e Install panels and solder up at back

11 Standoff mounting (4 places)