# FG085 Function Generator 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

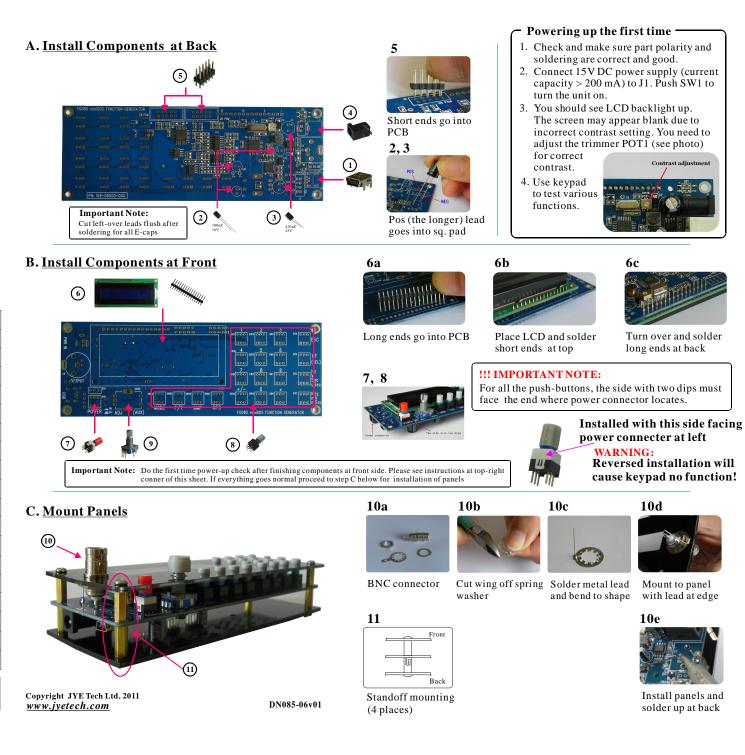
### **Important Notes**

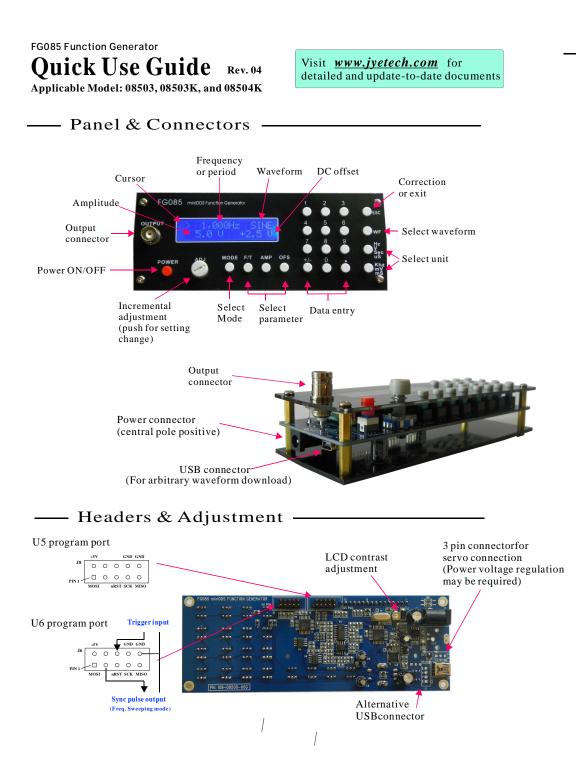
- 1. Follow the numbered order to install.
- 2. Only install parts given in the part list.
- 3. Pay special attention to polarity and orientation for electrolytic capacitors, headers, switches, and connectors (see detailed photos).

## <u>Part List</u>

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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## \_\_\_\_ Operating \_\_\_\_\_ 1. Constant Waveform (CW) Mode

Function	Operations
Set Frequency or Period	[F/T] + [Data Entry Keys *] + [Unit Key]
Set Amplitude	[AMP] + [Data Entry Keys *] + [Unit Key]
Set Offset	[OFS] + [Data Entry Keys *] + [Unit Key]
Incremental Adjustment	Select parameter and turn [ADJ] dial (Incremental step size can be set to any value).
Select Waveform	Press [WF] key
Set duty cycle	[.] + [Data Entry Keys *] + [Unit Key]

#### 2. Frequency Sweeping Mode

Function	Operations
Set sweep parameters	Turn [ADJ] to select parameter. Press [F/T] to change. Use buttons [1], [2], [3], and [4] for quick access.
Set Amplitude	[AMP] + [Data Entry Keys *] + [Unit Key]
Set Offset	[OFS] + [Data Entry Keys *] + [Unit Key]
Select Waveform	Press [WF] key
Bi-dir. Sweeping	Press [+/-] key to toggle bi-dir. Sweep on/off

#### 3. Servo Position Mode

Function	Operations
Set Pulse Width	[F/T] + [Data Entry Keys *] + [Unit Key]
Set Amplitude	[AMP] + [Data Entry Keys *] + [Unit Key]
Incremental Adjustment	Select parameter and turn [ADJ] dial
Change Settings	Push [ADJ] (refer to detailed manual)

\* Note: Use [ESC] to correct or cancel input

#### 4. Servo Run Mode

Use [WF] key to start and hold servo running.

#### 5. Mode Selection

[MODE] + {Turn [ADJ] to select} + [MODE]

## Tips

- (1) **Under CW mode [ADJ] incremental step can be changed to any value** To do this type in the step size you want by digits and end with [Hz] or [mS] buttons. [Hz] button sets the step for frequency. [mS] button sets the step for time.
- (2) Quick access parameters in Frequency Sweeping mode

Under frequency sweeping mode you can use digit buttons [1], [2], [3], and [4] to access Start Frequency, Stop Frequency, Sweep Time, and Time Step Size respectively.

(3) Toggle Trigger Function on/off

Under CW and frequency sweeping mode press [ADJ] dial to enable or disable trigger function.