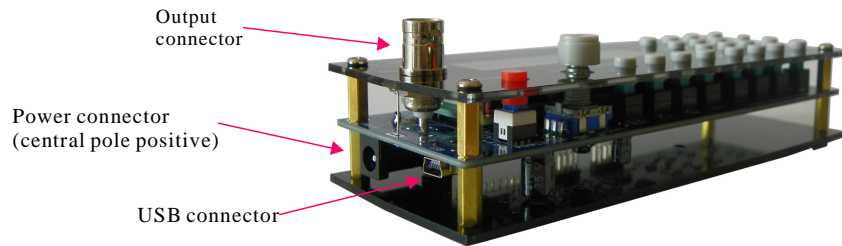
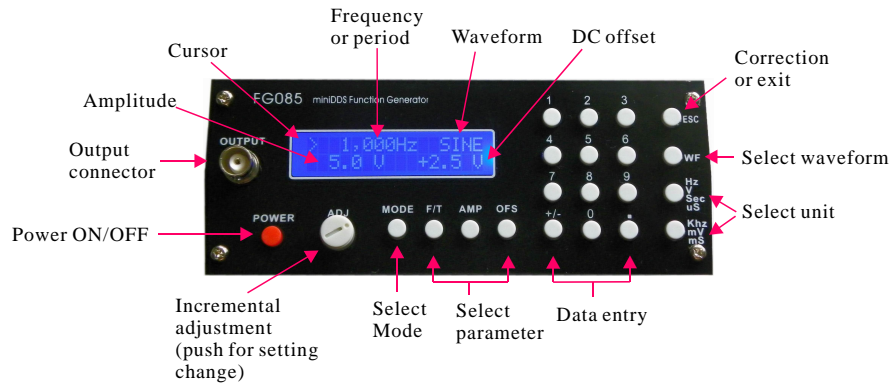


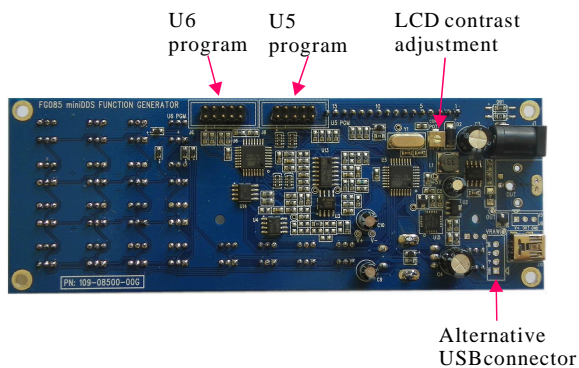
Quick Use Guide

Applicable Model: 08503, 08503K, and 08504K

Panel & Connectors



Headers & Adjustment



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
Select Waveform	Press [WF] key

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

2. 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

3. Servo Run Mode

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

4. Mode Selection

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

Specification

- Ø Frequency range: 0 - 200KHz (Sine)
- Ø Frequency resolution: 1Hz
- Ø Frequency accuracy: 100 ppm
- Ø Period resolutions: 1ms
- Ø Amplitude range: 0 10V peak-to-peak
- Ø D.C. offset range: -5V +5V
- Ø Waveform memory length: 256 bytes
- Ø Sample rate: 2.5Msps
- Ø Output impedance: 50 ohm
- Ø Power supply voltage: 15V DC +/- 10%
- Ø Current consumption: < 150mA (without loading)

Please visit www.jyotech.com for detailed manual and related documents

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	

Tech Support: Forum: <http://forum.jyotech.com>
Email: support@jyotech.com

A. Install Components at Back

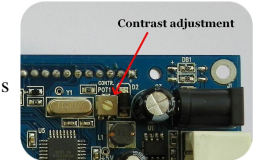
Important Note: Cut left-over leads flush after soldering for all E-caps

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

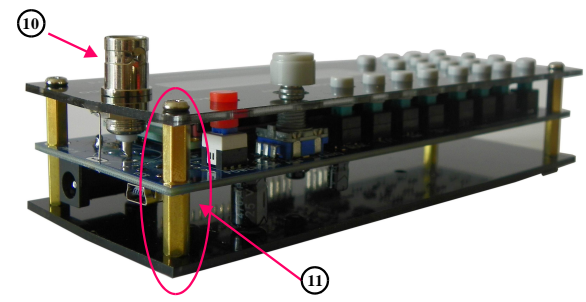
6c Turn over and solder long ends at back

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)