

GLH 850

General Laboratory Homogenizer

User Manual



Data herein has been verified and validated. It is believed adequate for the intended use of the instrument. If the instrument or procedures are used for purposes over and above the capabilities specified herein, confirmation of the validity and suitability should be obtained; otherwise Omni International does not guarantee results and assumes no obligation or liability. This publication is not a license to operate under, or a recommendation to infringe upon, any process patents.

This product is warranted to be free from defects in material and workmanship for a period of TWO YEARS from the date of delivery. Omni International will repair or replace and return free of charge any part which is returned to its factory within said period, transportation prepaid by user, and which is found upon inspection to have been defective in materials or workmanship. This warranty does not include normal wear from use; it does not apply to any instrument or parts which have been altered by anyone other than an employee of Omni International nor to any instrument which has been damaged through accident, negligence, failure to follow operating instructions, the use of electric currents or circuits other than those specified on the plate affixed to the instrument, misuse, or abuse. Omni International reserves the right to change, alter, modify, or improve any of its instruments without any obligation whatever to make corresponding changes to any instrument previously sold or shipped.

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This product has been engineered for safety; however, basic safety precautions and common sense must always be demonstrated when using any electrical product.

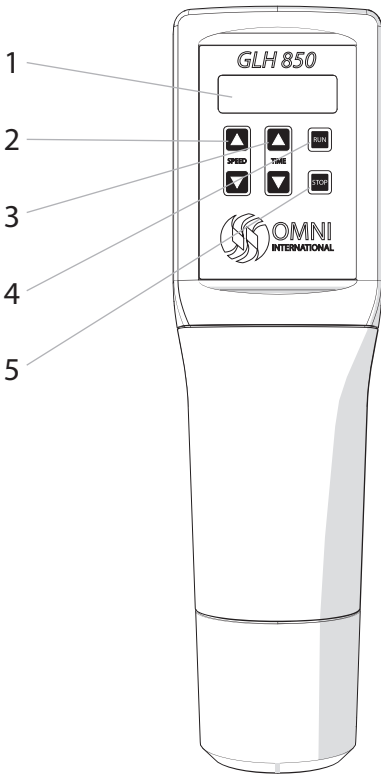
- DO NOT attempt to modify any part of this product.
- DO NOT allow the machine to be submerged in any liquid.
- DO NOT use in any setting other than an indoor laboratory.
- DO NOT plug power cord into an incorrect outlet or subject it to an incorrect voltage.
- Use this product only for its intended purpose.
- DO NOT use attachments not recommended by the manufacturer.
- DO NOT operate the product if it is damaged in any way.
- Keep this product away from heated surfaces.
- DO NOT modify the plug or cord that is provided. If the plug will not fit the outlet, have the proper outlet installed by a qualified electrician.
- DO NOT operate the product with the safety ground disconnected.

WARNING: Reduce the risk of unintentional starting; make sure the speed switch is in the OFF position before plugging in the motor.

WARNING: Damaged or worn power cords should be repaired or replaced immediately by a qualified electrician.

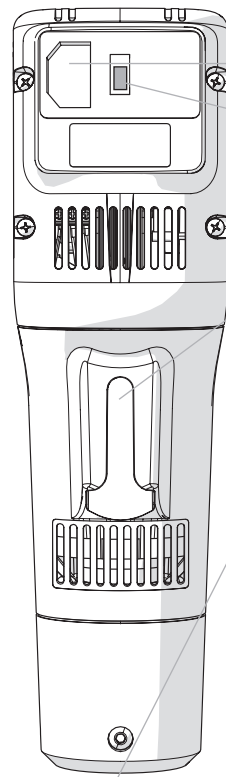
WARNING: Improper connection of the equipment can result in a risk of electric shock.

Overview



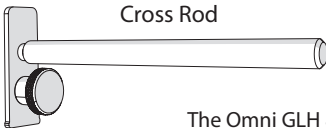
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- 1. Digital Display
- 2. Speed Control
- 3. Timer Control
- 4. Run Button
- 5. Stop Button

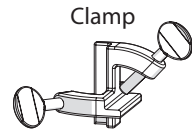


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- 6. Power Cord Port
- 7. On/Off Switch
- 8. Cross Rod Port (stand mounting)
- 9. Generator Probe Coupling



Cross Rod



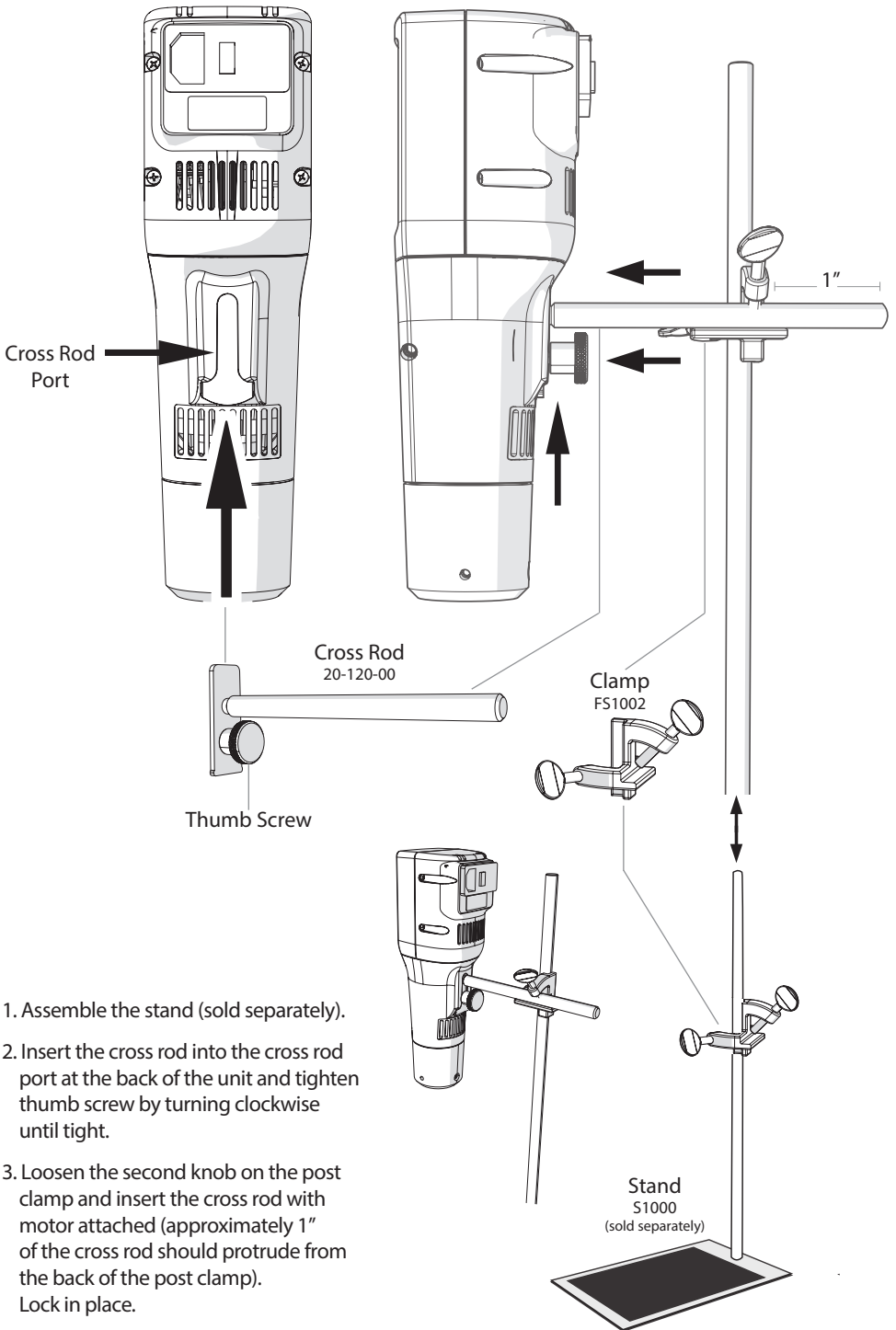
Clamp

The Omni GLH 850 consists of the following:

Description	Part Number	Quantity
Motor Drive Unit (115V)	20-100-00	1
Or Motor Drive Unit (230V)	20-200-00	
Power Cord (115V)	LT-710	1
Or Power Cord (230V)	LT-712	
Cross Rod Assembly	20-120-00	1
Clamp	FS1002	1
Tool Kit	T1001	1
User Manual	03-270	1

Optional Stand Available (sold separately) Part Number - S1000

Stand Mounting



1. Assemble the stand (sold separately).
2. Insert the cross rod into the cross rod port at the back of the unit and tighten thumb screw by turning clockwise until tight.
3. Loosen the second knob on the post clamp and insert the cross rod with motor attached (approximately 1" of the cross rod should protrude from the back of the post clamp). Lock in place.

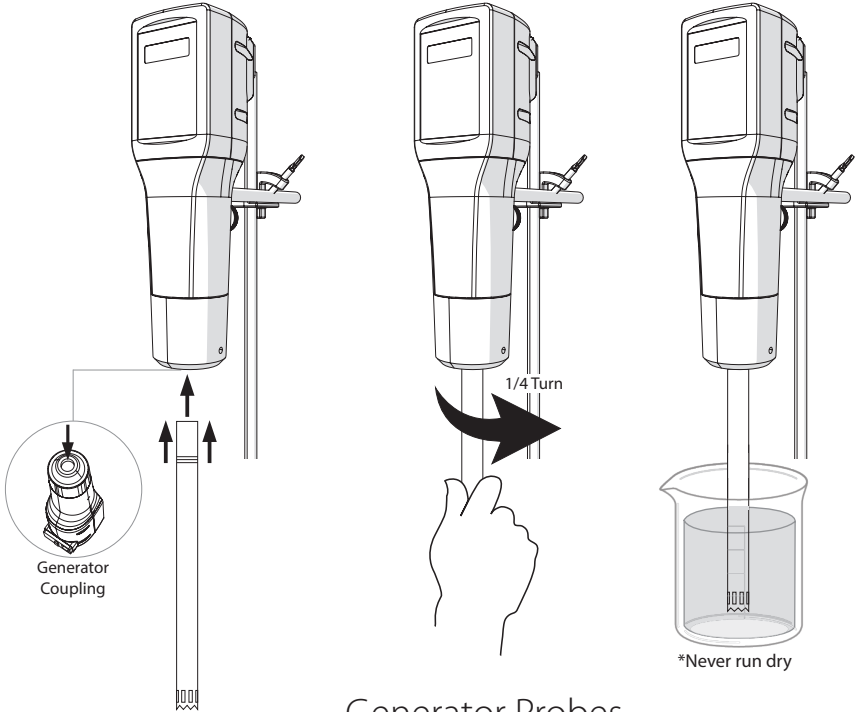
Accessories

Generator Probes

1. Insert Generator Probe into coupling

2. Quarter turn clockwise to lock

3. Ready to use
*always submerge probe in liquid before starting



Generator Probes

Size	Processing Range	Type	Order No.
5 mm x 75 mm	.020 mL - 5 mL	Flat Bottom	G5-75
7 mm x 115 mm	.25 mL - 30 mL	Saw Tooth	G7-115ST
		Saw Tooth - Wide Window	G7-115STW
10 mm x 115 mm	1.5 mL - 100 mL	Saw Tooth	G10-115
		Saw Tooth - Wide Window	G10-115W
20 mm x 195 mm	100 mL - 2 L	Saw Tooth	G20-195ST
		Saw Tooth - Wide Window	G20-195STW
30 mm x 195 mm	200 mL - 5 L	Flat Bottom	G-30NA-195
		Flat Bottom - Wide Window	G-30WA-195

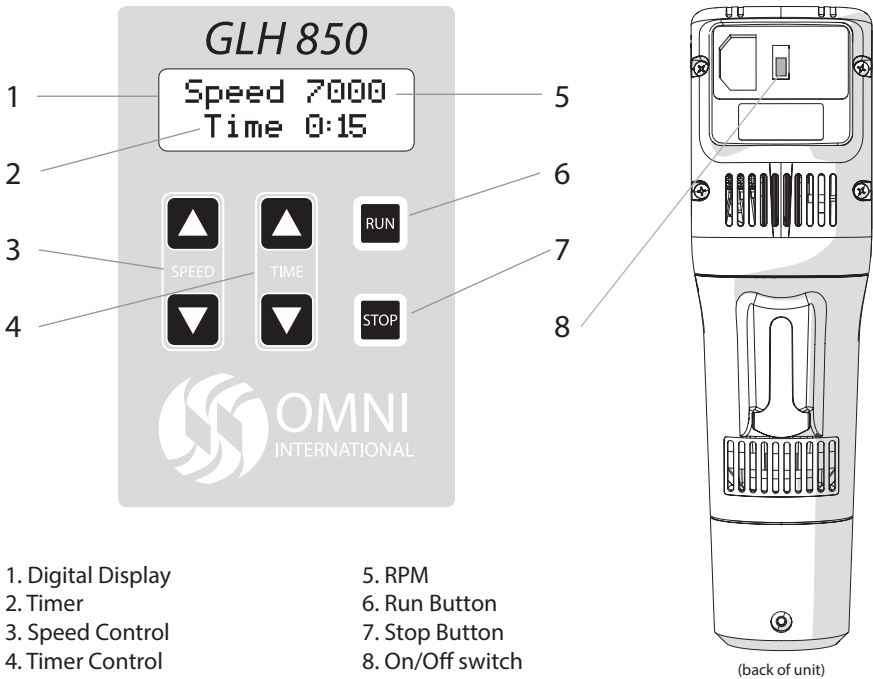
Omni Tips®

Plastic
Disposable
Generator
Probes

Type	Size	Quantity	Order No.
Hard Tissue	7 mm x 110 mm	25 Pack	30750H
	7 mm x 110 mm	50 Pack	32750H
Soft Tissue	7 mm x 110 mm	25 Pack	30750
	7 mm x 110 mm	50 Pack	32750
	Adapter	1	A10005B

(required for plastic probes)

Operation



General Operation

Power

- Plug in the power cord and move the On/Off switch on back of the unit to the On position.

Set Speed

- Adjust speed using up and down arrow buttons.

Set Timer

- Adjust run time using up and down arrow buttons.

Start

- Press Run button.

Delayed Start

- Press and hold the Run button for 3 seconds.

The display will then countdown for 30 seconds before beginning to run.

Constant Run

- Set the timer above 9:59 or below 0:01. The display will read **Constant Run**. Press Run to start.

Pause/Stop

- Press Stop Button to Pause.

- Press Stop again to reset timer.

Troubleshooting

Error Codes

Error Code	Definition	Cause	Possible Solution
Error 1	Motor is not turning.	Motor has overheated.	Unplug and let stand for at least 1 hour at room temperature, then attempt to restart.
		Something is physically preventing the motor from turning.	Remove generator probe and attempt to run the motor.
			Check that the generator probe (removed from the motor) spins freely.
		Check for foreign objects inside the generator probe port.	
Error 2	Motor has failed to reach the desired speed, or is drawing too much power to reach speed desired.	Generator probe is too large for the speed desired or the sample is too large/viscous to be processed.	Reduce desired speed.
			Reduce the generator probe size.
			Reduce the viscosity of the sample being processed.



OMNI
INTERNATIONAL

935C Cobb Place Blvd.
Kennesaw, GA 30144
800.776.4431 • 770.421.0058
www.omni-inc.com



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