



# AUTOTEST & MANUAL TEST INSTRUCTIONS

## FORMA (FME)







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The Autotest option always monitors the following: battery disconnection, LED failure, battery charging operation, and battery failure. It provides a visual indication of unit's status via a multi-color LED. The function is factory preset, and NO field adjustments are required.

After battery connection and AC power is applied, the Autotest counter will be activated to schedule the following tests:

- a) 5 minutes' battery discharge and self-testing every 30 days
  - b) Two 90 minutes' battery discharge and self-testing every 6 months, 48 hours apart
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### DIAGNOSTIC DISPLAY

	Red Double Blink: Normal Operation
	Flashing Green: Testing under way
	Flashing Red/Green: High Charging
	Steady Red: Battery Disconnected
	Flashing Red: Battery Test Failure
	Red Three Blink: LED Failure









If the diagnostic LED does not light up even though a battery is connected to the circuit board, it might imply that battery voltage is too low to be accepted by the charger. Disconnect battery and measure voltage; replace battery if necessary.

To keep the optimum performance of the battery, do not leave battery connected to the unit without the presence of AC power for more than 24 hours!

**NOTE: The diagnostic LED indicator will be OFF during emergency mode (AC failure).**

### MANUAL TESTING

Manual testing of unit may be performed by pressing the TEST button on the bottom of the unit as shown in the table below.

Manual Test	How?	LED Indication		
		In progress	Pass	Fail
<b>LED test</b>	Press and HOLD TEST button for 3 sec.	 RED triple blink, ONCE		 ***RED triple blink, CONTINUOUS
<b>*30 sec. battery test</b>	Press TEST button 2 times (within 3 sec.)	 Flashing GREEN for 30 sec.	Flashing RED/ GREEN or  Red Double Blink	 Flashing RED
<b>**15 min. battery test</b>	Press TEST button 3 times (within 3 sec.)	 Flashing GREEN for 15 min.		
<b>**90 min. battery test</b>	Press TEST button 4 times (within 3 sec.)	 Flashing GREEN for 90 min.		
<b>CANCEL test</b>	Press and HOLD TEST button for over 5 sec.			

\*Always allowed, except when Autotest or other manual testing is in progress

\*\*15 min. and 90 min. manual tests are NOT allowed if any of the following occurred in the past 24 hours:

- a) AC power failure occurred
- b) Autotest (90 mins) occurred or is in progress
- c) Manual test (15 mins or 90 mins) occurred or is in progress
- d) Battery is not fully charged

\*\*\*RED triple blink, CONTINUOUS, will also occur also occur if TEST button is pressed and HELD for over 5 sec. (or "stuck button")

Battery failure on any of the above tests activates "Flashing Red" on the diagnostic LED, which will remain until the LED board is RESET.

**Under any conditions such that the diagnostic LED does not light up or the board malfunctions, RESET the board to clear all errors.**

### LED Board RESET

- 1) Disconnect the battery and disconnect AC power
- 2) Wait 10 seconds
- 3) First reconnect the battery to the board, and then restore AC power