
INSTRUCTIONS IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed including the following:

1. **READ AND FOLLOW ALL SAFETY INSTRUCTIONS**
 2. Disconnect power before performing work on electrical equipment.
 3. Do not use outdoors.
 4. Do not let power cords touch hot surfaces and do not mount near gas or electric heaters.
 5. Use caution when servicing batteries. Battery acid can cause burns to skin and eyes. If acid is spilled on skin or eyes, flush with fresh water and contact a physician immediately.
 6. Equipment should be mounted in locations and at heights where unauthorized personnel will not readily subject it to tampering.
 7. The use of accessory equipment not recommended by BeLuce Canada Inc. as it may cause an unsafe condition, and will void the unit's warranty.
 8. Do not use this equipment for other than its intended purpose.
 9. Servicing of this equipment should be performed by qualified service personnel.
 10. **SAVE THESE INSTRUCTIONS!**
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SELF-DIAGNOSTIC SERVICE

The Self-Diagnostic Service monitors the following always: 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 Auto-test 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

The diagnostic LED indicator will be OFF at emergency mode (AC failure).

	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!

MANUAL TESTING

The unit provides manual testing as below.

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

*Always allowed, except Auto-Test or other manual test is in progress

**15 min. and 90 min. manual tests are NOT allowed if in the past 24 hours:

- AC power failure occurred, or
- Auto-Test (90 mins) occurred or is in progress, or
- Manual test (15 mins or 90 mins) occurred or is in progress, or
- Battery is not fully charged.

***RED triple blink, CONTINUOUS, will 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.