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## 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 Beghelli USA 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, and provides a visual indication of unit's status via a multi-color LED:

Battery disconnection, LED failure, Battery charging operation, and Battery failure.

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.

- 1) 5 minutes' battery discharge and self-testing every 30 days
- 2) Two 90 minutes' battery discharge and self-testing every 6 months, 48 hours apart








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### DIAGNOSTIC DISPLAY

After unit is properly installed per installation instructions, and with AC power supplied, the exit sign will be ON.









The diagnostic LED will be OFF at emergency mode.

However, when AC is restored, if the LED does not light up or the board malfunctions, RESET the board.

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

## MANUAL TESTING

The unit provides manual testing as below.

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

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

Any new emergency mode operation will be entered promptly, regardless of battery voltage.

\*\*\* 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.

### 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

### WARNING

- 1) Make sure that power is off before making any electrical connections!!!
- 2) Unused wires must be capped using enclosed wire nuts!

**SAVE THESE INSTRUCTIONS!**