
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. Turn off power supply before attempting to install the unit.
3. Do not let power cords touch hot surfaces.
4. Do not mount near gas or electric heaters.
5. Equipment should be mounted in locations where unauthorized personnel will not readily subject it to tampering.
6. The use of accessories not recommended by Beghelli, may cause an unsafe condition, and will void the warranty.
7. Do not use this equipment for other than its intended purpose.
8. Qualified service personnel should perform servicing of this equipment.
9. Consult building code for approved wiring and installation.
10. The fixture must be grounded to avoid potential electric shock.
11. **SAVE THESE INSTRUCTIONS!**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

INTRODUCTION

After unit is properly installed according to Installation Instruction Sheet and with AC power supplied, the LED strips will be ON if it is a Normally ON fixture, the dual colour LED indicator will be green, and the self-diagnostic test function will automatically initiate. The dual colour indicator points out the current unit status. The green colour indicates the normal service/ green blinking indicates testing. The red colour indicates the service alert, please refer to Diagnostic Display for detail. The green/red flash indicates the unit under charging. The indicator will be off at emergency mode.

SELF-DIAGNOSTIC SERVICE








The self-diagnostic function is factory pre-set. Any field adjustments are not required. The automatic self-diagnostic performs the following tests and the internal counter will begin from the date of installation:

- i) 5 minutes discharge and self-testing every 30 days; after AC power is applied
- ii) 90 minutes discharge and self-testing every 6 months; after AC power is applied

At all times the following are being monitored: Battery disconnection, LED failure, battery charging operation and the battery test failure.

DIAGNOSTIC DISPLAY

The Auto-Test Self-Diagnostics provides a visual indication of unit status via a multi-coloured LED. The LED may indicate just one or any combination of various conditions as follows:

- | | | |
|---|---------------------|--------------------------|
|  | 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 also provides manual testing by pressing the test button as follows. The testing can be stopped by pushing the button during the manual testing.

1. **30 sec. test:** Press **TEST** button **two times** (within 3 sec.)
 - The **GREEN** light will start flashing after 3 sec. and continue flashing during the remaining of the 30 sec. test.
 - If two presses of **TEST** button are not completed within 3 sec., this manual test will be ignored
 - **This test is always allowed**

2. **15 min. test:** Press **TEST** button **three times** (within 3 sec.)
 - The **GREEN** light will start flashing after 3 sec. and continue flashing during the remaining of the 15 min. test.
 - If three presses of **TEST** button are not completed within 3 sec., this manual test will be ignored
 - **This test is always allowed**

3. **90min. test:** Press **TEST** button **four times** (within 3 sec.)
 - The **GREEN** light will start flashing after 3 sec. and continue flashing during the remaining of the 90 min. test.
 - If four presses of **TEST** button are not completed within 3 sec., this manual test will be ignored
 - **This test is always allowed when battery is fully charged, diagnostic LED shows steady GREEN.**

Manual test can be stopped/aborted at any time by pushing **TEST** button **once** (lasting > 5sec.), during the manual testing.

Note: MANUAL Test Modes of Ni-MH Charger Unit could be initiated only if any periodical Auto-Test is not under way. Otherwise pushing **TEST** button will be ignored.

If the battery fails on any of the above tests, an alarm signal of “Flashing Red” LED will be activated and displayed at all time until the LED board is reset, or any test has passed again.

If the diagnostic LED indicator does not light or the board malfunctions, resetting the LED board might clear all errors.

To reset the LED board:

- 1) Disconnect the battery and then disconnect the AC power
- 2) Wait for 10 seconds, first reconnect the battery to the board and then resume AC power

After exiting from MANUAL Test Mode a 24h counter will be started to prevent any new AUTO/MANUAL test execution before 24h of battery charging is performed or before battery is fully charged, whichever comes first, **with the exception of 5 min Auto-Test, 30 sec. or 15 min. manual test.** However, any new emergency operation will be entered promptly, regardless of battery voltage level.

WARNING

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