

TROUBLESHOOTING

AC-On Light does not illuminate

- Check AC wiring connections

Emergency LEDs do not work

- Battery is shipped disconnected. Connect leads from battery to charger PCB and charge before testing.
- Make sure connections to charger board are properly seated.
- Check wiring connections.

Maintenance

Units should be tested and maintained in accordance with National Electrical Code and NFPA 101 Life Safety Code requirements. The NFPA 101 Life Safety Code requires emergency lighting units be tested for a minimum of 30 seconds once a month and 90 minutes once a year.

The automatic monthly tests of the SPECTRON units satisfy this requirement. The required annual test can be initiated manually with the test switch, as required by the safety code.

LED REPLACEMENT

Contact factory.

**RECYCLING INFORMATION**

All steel, aluminum and thermoplastic parts are recyclable.
All cartons contain recycled materials.
Please recycle responsibly.

NOTICE:

Units contain rechargeable batteries which must be recycled or disposed of properly.
Use CAUTION when handling batteries.

**PG LED Emergency**

*LED Emergency Lighting Unit For Indoor
Or Outdoor Application
Installation, Operation and Service Instructions*



93022005

**PATENTS
PENDING**

IMPORTANT SAFEGUARDS

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

**READ AND FOLLOW
ALL SAFETY INSTRUCTIONS**

1. Do not let power supply cords touch hot surfaces.
2. Do not mount near gas or electric heaters.
3. Equipment should be mounted in locations and at heights where it will not readily be subject to tampering by unauthorized personnel.
4. The use of accessory equipment not authorized by the manufacturer may cause an unsafe condition.
5. Do not use this equipment for other than its intended purpose.
6. Servicing of this equipment should be performed by qualified service personnel.

INSTALLER:

- **SEE UNIT LABEL FOR ADDITIONAL MODEL SPECIFICATIONS**
- **SAVE THESE INSTRUCTIONS FOR USE BY OWNER/OCCUPANT**

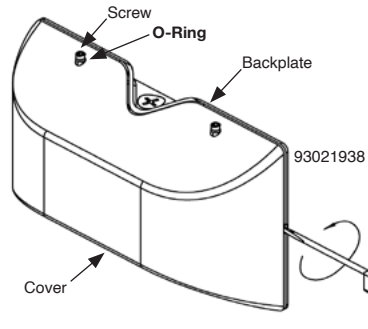
WARNING – This product contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm. Thoroughly wash hands after installing, handling, cleaning, or otherwise touching this product.

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INSTALLATION



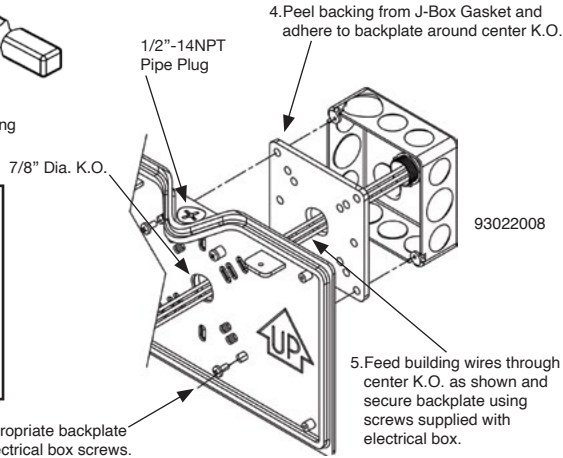
1. Open the unit by loosening both screws on top of unit until screws spin freely. Pry cover from backplate, and remove cover squarely from backplate. (Remove screws prior to re-installing cover.)

IMPORTANT:
Once unit is connected and cover is snapped onto backplate, gently seat screws onto O-ring seals to less than 1/2FT-LB (.7N-m).
DO NOT OVERTIGHTEN!
O-RING MAY BE DAMAGED AND THE UNIT WILL LEAK IF ABOVE IS NOT FOLLOWED.

2. Remove 7/8" diameter K.O. from backplate if mounting to electrical box or remove 1/2"-1/4NPT pipe plug if using conduit.

CONDUIT MOUNTING:
If unit is not secured to mounting surface using unit backplate K.O. pattern and supplied gasket, use sealant to create waterproof seal between the mounting surface and the unit backplate.

IMPORTANT!
To weatherproof your outdoor installation, be sure to seal all fixture openings - mounting, conduit, etc.

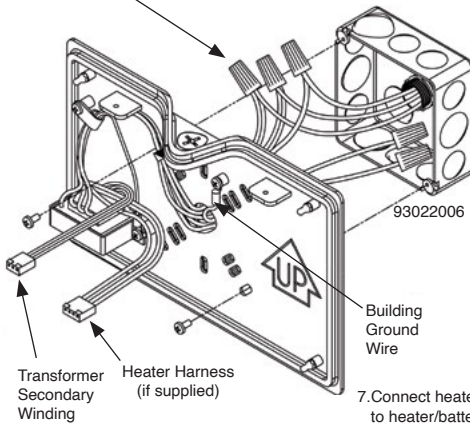


4. Peel backing from J-Box Gasket and adhere to backplate around center K.O.

5. Feed building wires through center K.O. as shown and secure backplate using screws supplied with electrical box.

6. Connect building wires to transformer and heater harness (if supplied).

3. Remove appropriate backplate K.O.'s for electrical box screws.



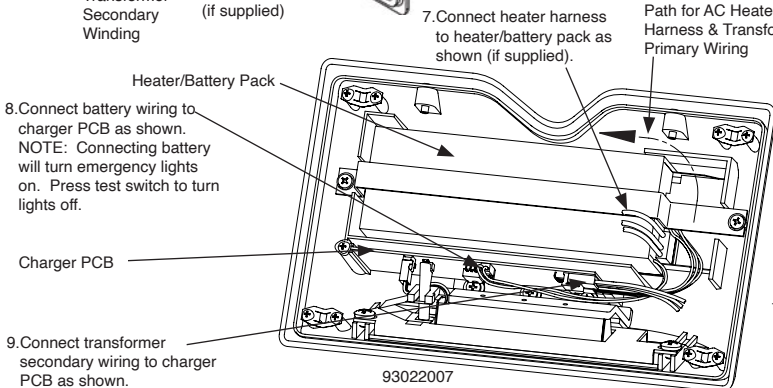
120VAC (black and white wires)
Connect both black transformer and heater harness wires to hot (120V) wire from building. (Separately cap off transformer red wire and heater harness red wire).

277VAC (red and white wires)
Connect both red transformer and heater harness wires to hot (277V) wire from building. (Separately cap off transformer black wire and heater harness black wire).

Ground
Connect ground (green) conductor.

WARNING: DO NOT JOIN UNUSED WIRING - CAP OFF UNUSED WIRES INDIVIDUALLY.

NOTE: Feed wires and wire nuts back into electrical box through backplate as shown.



8. Connect battery wiring to charger PCB as shown. NOTE: Connecting battery will turn emergency lights on. Press test switch to turn lights off.

9. Connect transformer secondary wiring to charger PCB as shown.

7. Connect heater harness to heater/battery pack as shown (if supplied). Path for AC Heater Harness & Transformer Primary Wiring

10. Attach unit cover to backplate by reversing Step 1. Ensure all wires are within enclosure to avoid pinching with cover.

OPERATION

Spectron® Self-Testing/Self-Diagnostic Model

All models are provided with the Dual-Lite Spectron self-testing/self-diagnostic electronics system providing:

- Visual indication of AC power status
- Visual indication of all self-diagnostic test cycles
- Visual indication of unit malfunctions including:
 - Battery fault
 - Charger fault
 - Transfer Fault
 - Lamp fault

Bi-Color LED Status Indicator

Self-testing/self-diagnostic units are provided with a single, bi-color LED which serves as a combination AC power, self-test and service alert status indicator. During normal operation, the green status LED will be constantly illuminated, indicating the presence of AC power. During all automatic or manual self-test cycles, the green Status LED will blink at a one cycle per second rate indicating "Test In Progress". If a fault condition is detected during any automatic or manual self-test cycle, upon completion of test the red status indicator will provide a "service alert code" – see table below.

| Service Alert Code | Description |
|-----------------------|------------------------|
| One blink ON/pause | Battery not connected |
| Two blinks ON/pause | Battery fault |
| Three blinks ON/pause | Charger fault |
| Four blinks ON/pause | Transfer circuit fault |
| Five blinks ON/pause | Lamp failure |

Manual Test

Using the unit test switch, users can initiate different duration test cycles based on the following table:

| To Initiate Action: | Test Cycle |
|---------------------|------------|
| Press switch once | 1 minute |
| Press switch twice | 90 minute |

Pressing test switch at any time after a test cycle has begun cancels the remainder of test and returns the unit to normal operation. (NOTE: Batteries are often shipped in a discharged state – this is normal – battery requires charging. Allow several hours of charge before testing unit.)

LEDs produce heat – use CAUTION around LED assembly.

SPECTRON units also provide:

Brownout protection – unit transfer to emergency mode with low AC input voltage.

Time Delay Re-transfer – unit will remain in emergency mode for additional time after AC power is restored.