SIGNATURE SERIES EXITS INSTALLATION INSTRUCTIONS
MODELS LE AND LRE STANDARD AND EMERGENCY EXIT SIGNS

CAUTION: For safety and proper operation, read and follow instructions carefully before installation.

IMPORTANT SAFEGUARDS

1. READ AND FOLLOW ALL SAFETY INSTRUCTIONS
2. Before wiring to power supply, turn off electricity at fuse or circuit breaker.
3. Disconnect A.C. power and remove batteries before servicing.
4. All servicing should be performed by qualified personnel.
5. Consult your local building code for approved wiring and installation.
6. Do not use outdoors.
7. Do not mount near gas or electric heater.

CAUTION:

8. Use caution when servicing batteries. Remove A.C. power before attempting to service battery.
9. Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
10. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
11. Do not use the equipment for other than intended use.
12. Fixture must be grounded to avoid potential electric shock.

SAVE THESE INSTRUCTIONS

LE Model Parts Description

- Housing
- Housing Front
- Canopy
- Canopy Mounting Plate
- Sign Panel
- Electronics Assembly
- Threaded Nipple
- Battery (Emergency Models only)
- Battery Connector (Emergency Models only)
- Hex Nut
- Canopy Securing Screw
- Star Washer
- Green Ground Screw (not shown)
- Cup Washer (not shown)
- Electronics HV cover
- Chevron Knockout
- Jacks (not provided)
- WRS (FIDO) Radio Assembly (WRS models only)
- Wire Management Clip (not shown)

SAVE THESE INSTRUCTIONS

Installation

Step 1 - Top, Side, or Back mounting: Remove sign panel to expose chevron knockouts. From the inside tap out desired knockout. Remove paper backing from tape and replace sign panel (white side facing inside).

Step 2 - Top or Side Canopy Mounting: Select and remove appropriate knockouts on mounting plate for attachment to J-box. Screw threaded nipple through center threaded hole on mounting plate leaving approximately 2 1/8" exposed on outer surface. Using installation supply leads (provided) make connections to AC supply. Pull leads through wire passage hole and attach mounting plate to J-box using J-box screws (not provided). Attach ground wire to mounting plate using green ground screw and cup washer.

Step 3a - Back Mounting: Make appropriate wiring connections to A.C. input using installation supply leads (provided). Remove appropriate knockouts from housing back for J-box mounting configuration. Remove center 8/16" knockout, pull through supply leads and ground wire. Secure housing to J-box using J-box screws (not provided). Connect A.C. supply leads to appropriate push nut connectors (ref. Wiring Diagram, page 4). Wires should be dressed into housing using wire management damp and adhesive wire management clips. Connect ground wire to housing using green ground screw and cup washer. Connect battery to battery connector located on electronics assembly.

Step 3b - Top or Side Canopy Mounting: Select location on housing for canopy mounting and remove knockouts. Attach canopy to housing using canopy mounting screw and star washer. Pull supply leads through wire passage hole and feed threaded nipple through center hole. Secure using lock washer and hex nut. Make supply lead connections to push-nut connectors. Wires should be dressed into housing using wire management clips. For emergency models, connect battery to battery connector located on electronics assembly.

Caution: Please take care not to damage internal electronics or battery when removing the knockouts for top or side canopy mounting.

Figure A

LE Exit
**Lithonia Lighting**

**LRS Model (Recessed Exit) Parts Description**

1. Housing
2. Housing Front
3. Sign Panel
4. Trim Ring
5. Trim Ring Brackets
6. Electronics/Lamp Assembly
7. Test Switch
8. Indicator light assembly (Emergency Models Only)
9. Battery (Emergency Models only)
10. JS-box (not supplied)
11. Wire retention clip (not shown)
12. J-Box (not shown)
13. Cheonan knockout
14. Battery connector

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**Position Diagrams**

**Normal Operation:**

1. When unit is functioning properly with A.C. power supplied, the status indicator will be green and the exit lamp will be on. If the indicator is steady red, the unit is in Hi-Charge mode.

**Testing:**

1. A 30 second test of the batteries, lamp and charger circuit may be manually initiated by pressing the manual test switch. This will clear the failure provided the failed component has been corrected.
2. Disconnect the battery connector and input leads.
3. Remove the electronics assembly by pulling it forward to remove the electronics assembly.
4. Insert the new assembly by positioning the assembly at the bottom center and sliding all the way to the rear position.

**Clearing a failure Indication:**

1. Disconnect the battery connector and input leads.
2. Remove the electronics assembly by pulling it forward to remove the electronics assembly.
3. Assemble the new assembly by positioning the assembly at the bottom center and sliding all the way to the rear position.

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**Self-Diagnostic Testing**

**Important Note:** Emergency Lighting Systems should be tested as often as local codes require, or at least monthly to ascertain that all components are operational. Allow battery to charge for 24 hours before initial testing. Allow 168 hours for battery to fully charge.

1. **Normal Operation:** When unit is functioning properly with A.C. power supplied, the status indicator will be green and the exit lamp will be on. If the indicator is steady red, the unit is in Hi-Charge mode.
2. **Testing:** When the status indicator is flashing green with the exit lamp on, a test is in progress. The exit performs 3 types of tests:
   - Every 30 days it performs a 5 minute diagnostics test of the batteries, lamp and charging circuit. Upon completion of the testing, the status indicator will return to either green (steady) indicating a properly functioning unit, or to red (steady) indicating a property functioning unit that is fast charging. Every 6 months self-diagnostics performs a 30 minute diagnostics test of the batteries, lamp and charging circuit. After the 30 minute test, the status indicator should return to red (steady) to indicate Hi-Charge mode. For other status indication refer to the table below.

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**Status Indicator:**

<table>
<thead>
<tr>
<th>Indicator State</th>
<th>Indication</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Exit in Emergency Mode</td>
</tr>
<tr>
<td>Green</td>
<td>Exit in Normal Mode</td>
</tr>
<tr>
<td>Green Flashing</td>
<td>Exit in Normal High-Charge Mode</td>
</tr>
<tr>
<td>Red</td>
<td>Exit in Self-Dist Mode</td>
</tr>
<tr>
<td>Red Flashing</td>
<td>Battery Failure</td>
</tr>
<tr>
<td>Red Flashing</td>
<td>Lamp Failure</td>
</tr>
<tr>
<td>Red Flashing</td>
<td>Triple Pulse Electronics Failure</td>
</tr>
<tr>
<td>Red/Flash R/G</td>
<td>Temporary Inadequate charge</td>
</tr>
</tbody>
</table>

**Maintenance (All Models)**

- Turn off A.C. power and disconnect batteries before servicing the unit.
- Remove all wires using adhesive wire retainers. Insert input jumper leads into appropriate pushnut connector as shown on appropriate wiring diagram.
- CAUTION: Removal of the Electronics HV cover will create a potential shock hazard.
- Battery Replacement:
  - Make sure to use Lithonia Lighting replacement part number.

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**Installation Recessed (LRE) Units**

1. In desired location, make cutout in wall 8 3/4" x 12 3/8" long.
2. Center standard metal junction box (not included) in cutout.
3. Partially thread two (2) trim ring bracket screws through trim ring and thread into trim ring bracket approximately three threads deep, attaching trim ring bracket to the trim ring as shown in Fig. B.
4. Insert the trim ring into the cutout. Adjust the attached trim ring against wall face by sliding trim ring bracket against wall interior. Reaching through trim ring position second trim ring bracket and partially thread two (2) trim ring bracket screws through trim ring and thread into trim ring bracket approximately three (3) threads deep.

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**Exit Mounting**

1. From rear of housing assembly remove center knockout and any oblong knockouts necessary to accommodate the junction box being used.
2. Connect jumper leads provided to input leads in J-box using wire nuts. Raise the exit housing to the J-box, and route jumper leads through center hole in housing assembly. Connect AC supply ground to rear of housing using green ground screw and cup washer.
3. If flexible cable has been used to mount the J-box, dress wiring into J-box and secure housing assembly to J-box using J-box screws (not provided). Position entire assembly in trim ring and secure housing assembly to trim ring using mounting screws.
4. If J-box has been mounted a precut and fitted brace, lift housing assembly into trim ring and dress wiring into J-box. Mount housing to J-box using junction screws (not provided) and secure housing assembly to trim ring using mounting screws.
5. Dress all wires using adhesive wire retainers. Insert input jumper leads into appropriate pushnut connector as shown on appropriate wiring diagram. Tear off and discard the label "USE." Push excess wire back into the J-box.

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**Figure B**

LRE (Recessed Exit) Assembly

**Wiring Diagram (All models)**

**Technical Specifications:**

- **Flash Rate:** 66 CPD
- **Duty Cycle:** 50/50
- **Input Rating:** 24 VDC @ 10mA max.
- **Battery:** 24 VDC @ 10mA max.
- **Battery Replacement:**
  - Unplug battery connector from electronic assembly. Remove battery from battery mounting dip, or pry battery loose from attached surface.
  - Follow instructions provided with replacement kit.

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**Battery Replacment:**

1. Unplug battery connector from electronic assembly. Remove battery from battery mounting dip, or pry battery loose from attached surface.
2. Follow instructions provided with replacement kit.

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**WRS (Fido) Radio Assembly Replacement:**

1. Remove the electronics assembly by pulling it forward to remove the electronics assembly from the exit housing.
2. Assemble the new assembly by positioning the assembly at the bottom center and sliding all the way to the rear position as shown in Fig. A or B.

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**LE/LRE X2 (Dual Input) Mode:**

This installation requires that the face of junction box be oriented towards front of housing assembly.

HAVE INPUT CIRCUITS AT BOTH ENDS OF ELECTRONICS LAMPBOARD ASSEMBLY.

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**Clearing a failure Indication:**

1. Disconnect the battery connector and input leads.
2. Remove the electronics assembly by pulling it forward to remove the electronics assembly from the exit housing.
3. Assemble the new assembly by positioning the assembly at the bottom center and sliding all the way to the rear position as shown in Fig. A or B.

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**Removal of the Electronics HV cover will create a potential shock hazard.**

**Lithonia Lighting**

ONE LITHONIA WAY, CONYERS, GEORGIA 30012  PHONE: 770 922-9000  www.lithonia.com