



## Caliber Series

LED Edgelit Exit Sign

EXPORT

AC Only or Emergency Operation

### INSTALLATION AND OPERATING INSTRUCTIONS

#### IMPORTANT SAFEGUARDS

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

### READ AND FOLLOW ALL SAFETY INSTRUCTIONS

All servicing should be performed by qualified personnel only.

Equipment should be mounted in locations and at heights where it will not be readily subjected to tampering by unauthorized personnel.

The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.  
Do not use this equipment for other than intended use.

Do not use outdoors.

Do not let supply cords touch hot surfaces.

Do not mount near gas or electric heaters.

This sign shall be installed only where there is adequate color contrast between the sign legend and the interior wall finish behind the sign, to provide for sufficient visibility.



### SAVE THESE INSTRUCTIONS

#### WARNING

– Shut off AC power to branch circuits to which units will be connected. All wiring should be per N.E.C. Articles 501-4(b) and local codes.



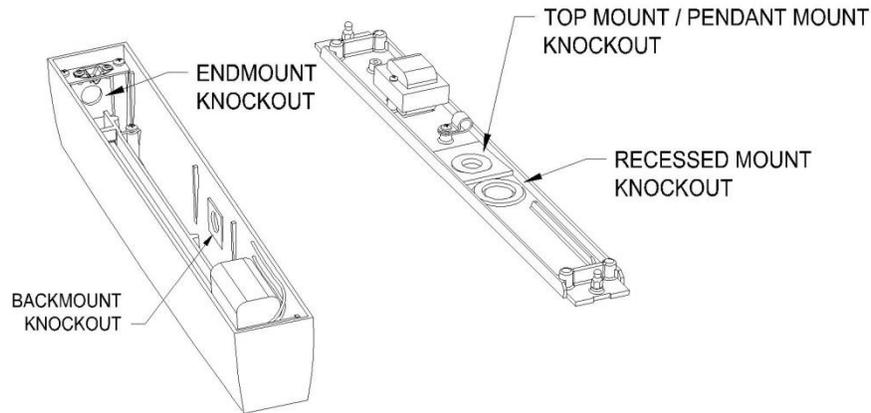
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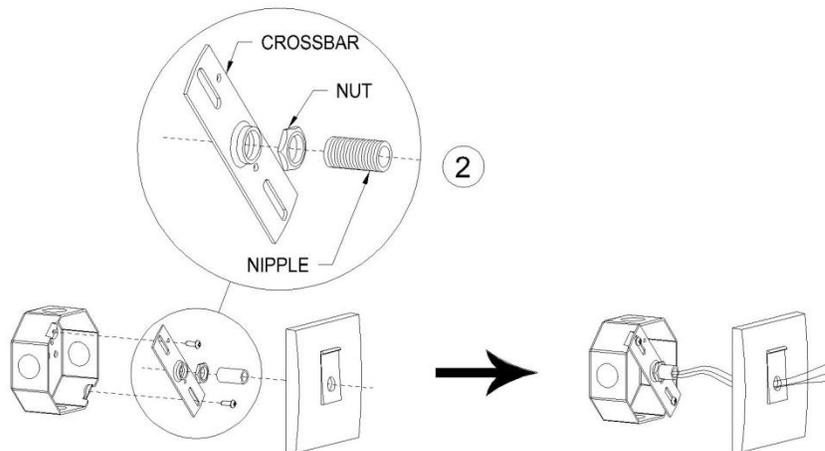
9140053563 February 2016

# INSTALLATION INSTRUCTIONS

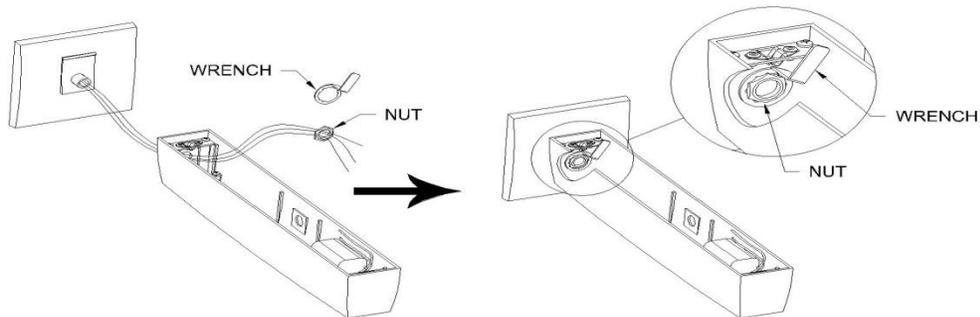
1. Remove knockout appropriate to mounting configuration desired. Proceed to Steps 2 thru 5 for end, wall and surface mounting. Proceed to Step 6 for recessed ceiling mount instructions.



2. Assemble crossbar, nut and nipple as shown and attach to junction box with nipple protruding outwards as shown. Route AC supply wires thru opening in canopy and place canopy over nipple in orientation shown.



3. A. END AND WALL MOUNTING - Route AC supply wires thru knockout in exit housing and hang exit on nipple (end mount shown- back mount similar). Route AC supply wires thru nut and fasten to nipple to secure exit to wall. A wrench is provided in the canopy kit for this purpose.



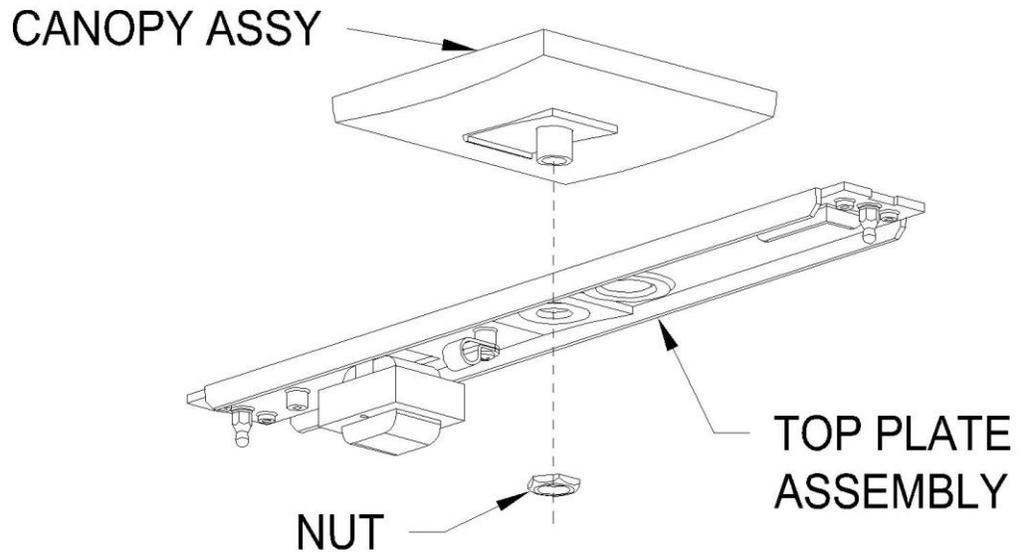
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- B. CEILING MOUNTING - Route AC supply wires thru center knockout in top plate of exit assembly. Route AC supply wires thru nut and fasten to nipple thus securing top plate to ceiling. A wrench is provided in the canopy kit for this purpose.



4. Transformer assembly is found on top plate. Make AC supply connections. **Keep AC supply wires as short as possible to avoid excess bulk.** See table below for wiring instructions. If two-circuit option has been ordered, see table at right for wiring instructions. If fire alarm option has been ordered, connect fire alarm input to the two grey leads (no polarity required). If DC/DC converter option has been ordered, connect red and black leads labeled (6-48VDC) to the external power supply being sure to observe correct polarity.

**CAUTION:** At power up, if red and green led indicators toggle on and off in an alternating pattern, immediately turn off AC power and check AC wiring per chart below. Fast flashing indicates high line voltage and slow flashing indicates low line voltage.

<b>AC Hookup</b>	
Grey wire – 220V Line Yellow wire – 208V Line Black wire – 120V Line Light Blue - Common Green wire - Ground	
<b>CAUTION:</b> Unused primary wire must be insulated to prevent shorting.	

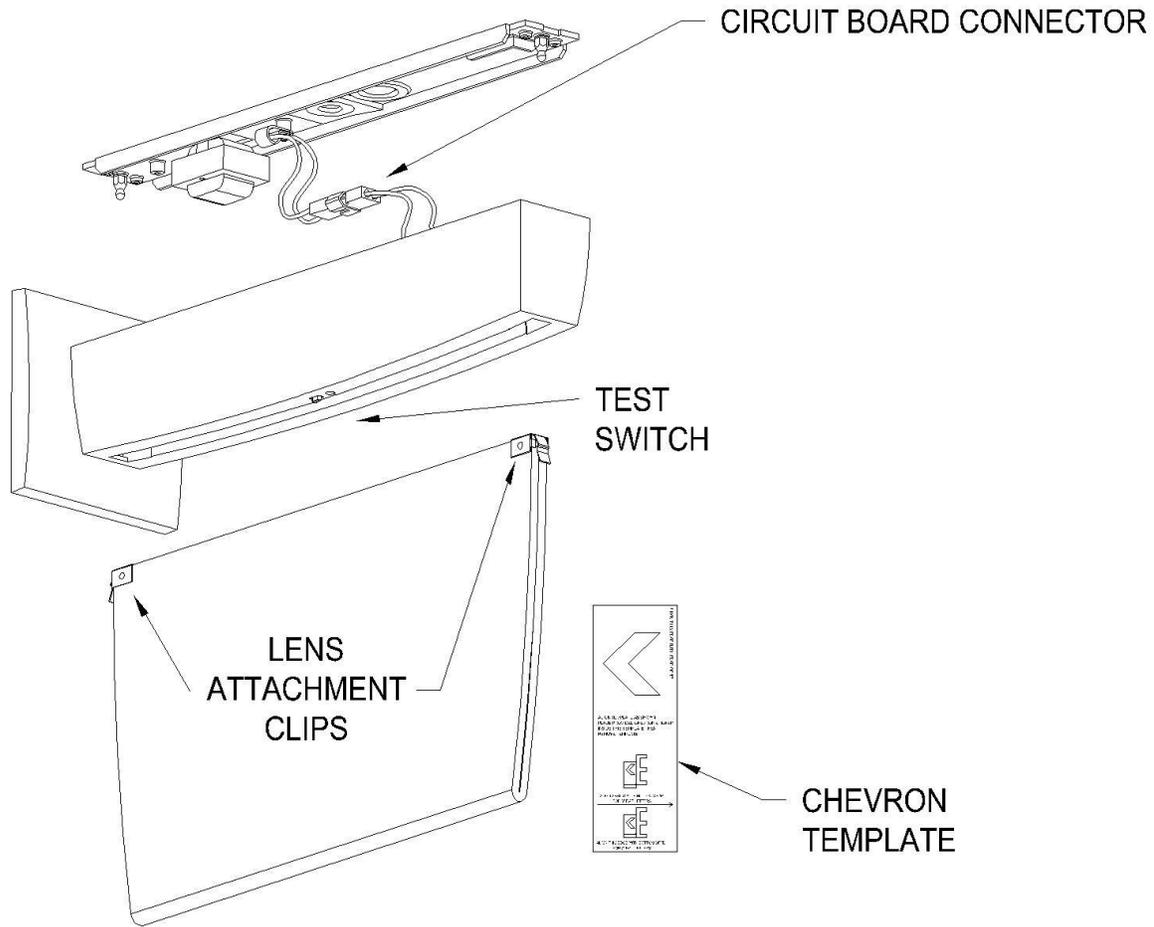


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5. **End or Wall mount** – A hook is provided in the canopy kit for temporary hanging of the housing assembly while making wiring connections. Plug transformer assembly into circuit board connector as shown. Snap housing assembly and top plate assembly together. Snap into housing from bottom. Tug gently on lens to ensure lens has firmly engaged housing. Legs of lens attachment clips may be bent outwardly slightly in order to improve lens retention, if required. Remove proactive film from surface of lens. Apply sel-stick chevrons as desired using supplied template. Energize AC circuit and press test switch to verify proper emergency transfer function (emergency operation units only).

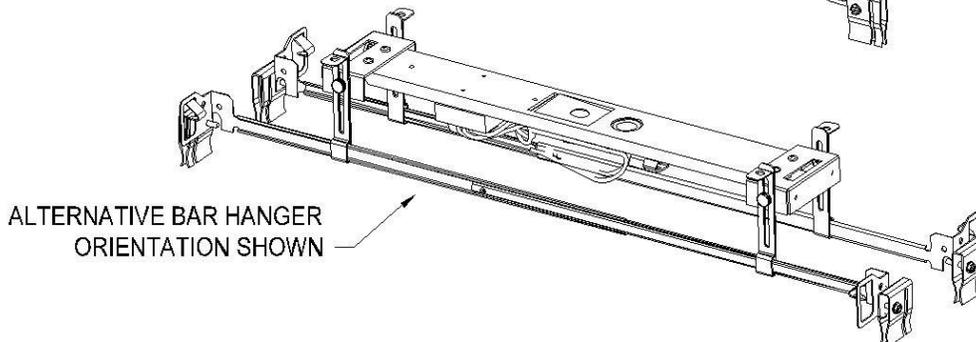
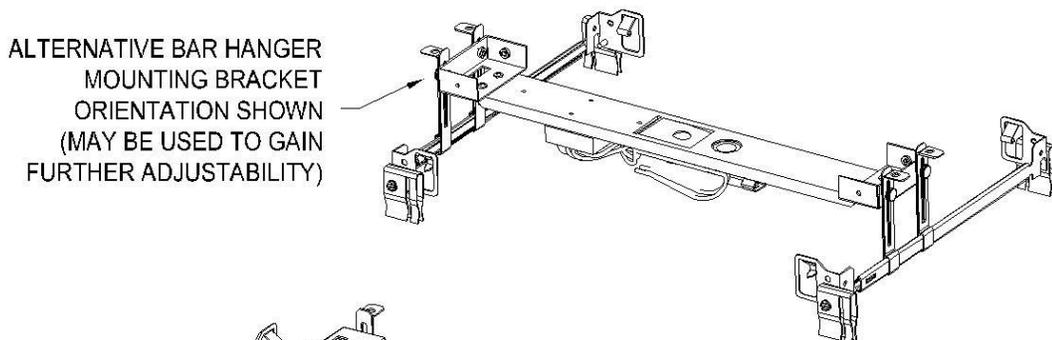
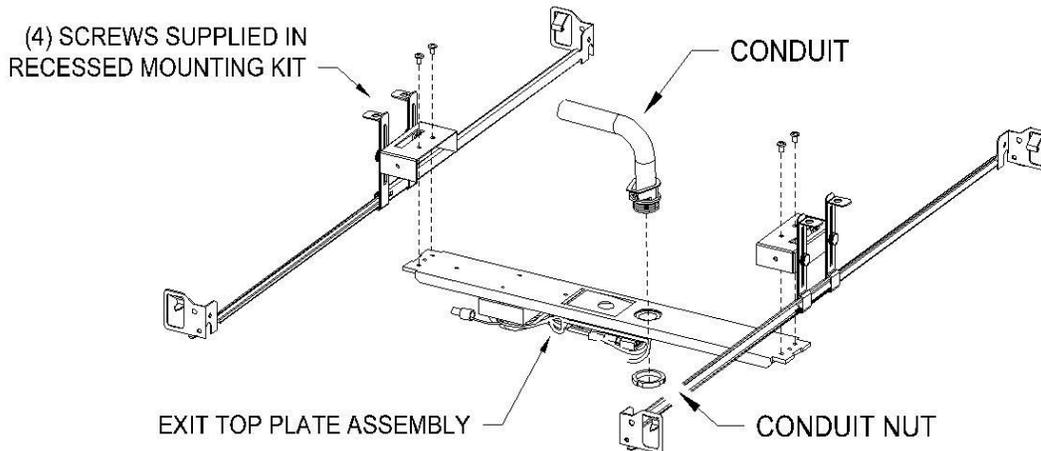


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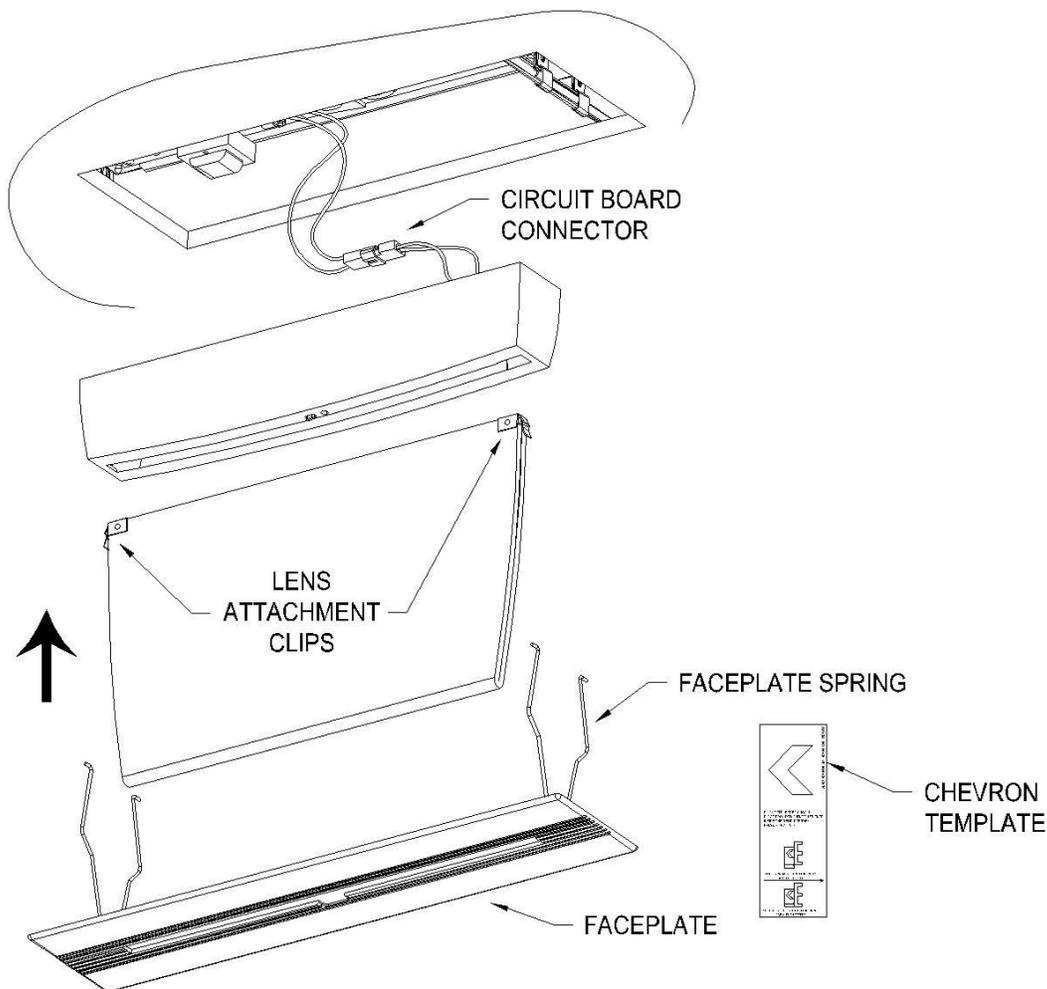
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6. **Recessed Mounting** - Cut a 16" by 3" opening in the mounting surface. Attach recessed mounting brackets to top plate assembly using four(4) supplied screws as shown. When properly oriented, the transformer assembly will be on your left as shown in drawings below. (Proper orientation will be further discussed in Step 7-Do not attach bar hangers to ceiling grid at this step). Route AC supply conduit to top plate assembly and secure conduit to large knockout as shown. (see chart at step-4 for AC supply hookup).



7. **Ceiling mount** - Plug transformer assembly into circuit board connector as shown. Snap housing assembly onto top plate assembly. Preferred orientation is with the test switch side facing out into the room(it may be necessary to orientate the assembly from step 6 to have achieve this.) Affix bar hangers to ceiling grid. Snap lens into housing from bottom. Tug gently on lens to ensure lens has firmly engaged housing. Legs of lens attachment clips may be bent outward slightly in order to improve lens retention, if required. Slide faceplate over lens and insert legs of faceplate springs into slots provided in recessed mounting brackets. Faceplate should be flushed with ceiling surface. Exit sign may be adjusted for height by loosening thumb screws and adjusting position of recessed mounting brackets. Remove protective film from surface of lens. Apply self-stick chevrons as desired using supplied template. Energize AC circuit and press test switch to verify proper emergency transfer function (emergency operation nits only).



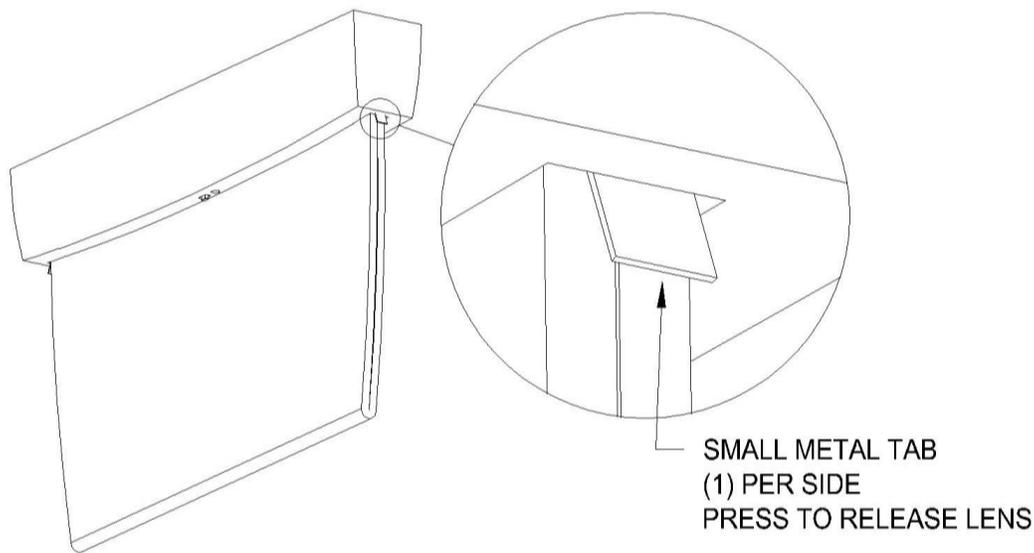
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## **LED EDGELIT EXIT SIGN** **MAINTENANCE INSTRUCTIONS**

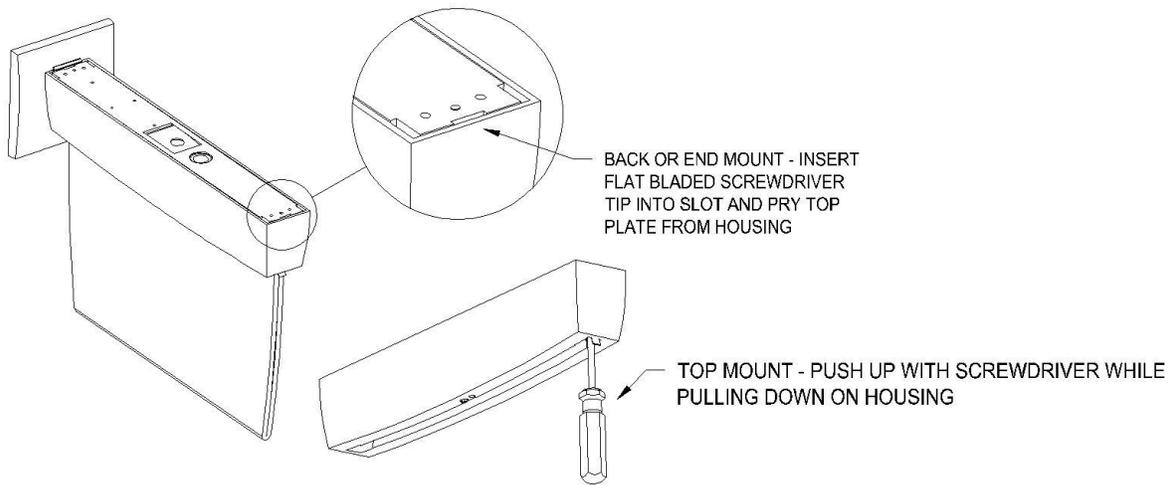
To remove lens for service: Grasp sides of lens near top and use index fingers or thumbs to press in on the small metal tabs found where sides of lens meet housing. Gently pull downwards on lens until clear of housing. After replacing lens, tug gently downwards on lens to ensure that it has firmly engaged the housing. The small metal tabs on the sides of the lens may be bent outwards slightly to improve lens retention, if required.



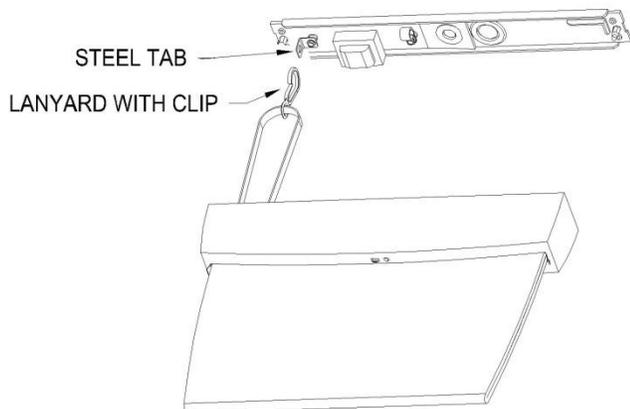
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To replace battery: Remove lens (see above). Use a flat bladed screwdriver to pry top plate away from housing.(if top mounted, remove lens and insert a screwdriver or similar instrument into end of lens slot in housing until it contacts the aluminum top plate ( do not place tip of screwdriver on led light strip). Simultaneously pull down on housing and push up on screwdriver until housing pops off of top plate. See drawing at lower left). Disconnect transformer assembly from circuit board assembly. Disconnect battery from circuit board and remove from housing. Peel off double sided tape from new battery and place in same location. Plug new battery into circuit board and reassemble exit



**FOR ADDED SAFETY IN THE EVENT OF VANDALISM:** Inside the unit, there is a lanyard with a plastic clip on the end. There is also a small steel tab screw to the cap. To prevent injury in the event of vandalism, clip the lanyard t onto the steel tab. This will prevent the sign from falling to the floor causing injury or property damage.

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## Self Diagnostic System Operation – Emergency Light or EXIT Sign Products

### Normal Power Up Sequence

At power up the red and green LED indicators will alternately flash for one to two seconds. Next the product will execute a “Power Up Quick Test” causing the green LED indicator to flash rapidly. If any faults are detected during the “Power Up Quick Test” these will be evident by a flashing red LED indicator. If the audible diagnostic option has been ordered, the flashing red LED will be accompanied by a simultaneous beeping tone. **(Note: A continuous rapid alternating Red/Green flash with rapid beeping tone indicates incorrect voltage applied to input lead. TURN OFF POWER IMMEDIATELY!)**

### Emergency Operation

Emergency operation occurs when AC power fails. The product remains in emergency operation until AC power is restored or battery capacity is depleted. During emergency operation both red and green LED indicators are disabled.

### User Interface

#### **Green LED indicator**

- Slow Flash/Continuous ON = AC power present; normal operating condition
- Rapid Flash = product performing an automatic or manually initiated diagnostic test

#### **Red LED indicator**

- Single Flash = battery fault
- Two Flashes = lamp failure (light bar failure – EXIT signs)
- Three Flashes = charger fault
- Four Flashes = transfer fault

(If more than one fault condition is present simultaneously, the red LED will flash the indication pattern for each fault independently then repeat the cycle.)

#### **Pushbutton Test Switch**

- Long Press (longer than 0.5sec) transfers product to emergency operation during time the button is pressed.
- Short Press initiates self diagnostic activities as follows:
  - One Press cancels diagnostic test presently running.
  - Two Presses starts a one minute diagnostic test.
  - Three Presses starts a 90 minute diagnostic test.
  - Four Presses conducts a lamp load calibration (emergency light products only).
  - Seven Presses initiates a system reset.

(Note: the microprocessor will allow up to seven, one minute diagnostic tests within the first 24 hours of operation. Allow 24 hours of charging before performing any long duration testing.)

**Buzzer** (optional)– Sounds in unison with the flashing red LED if a fault condition is present. Buzzer may be silenced for up to 196 hours by a short press of either the test switch or the optional IR remote control device “silence” button. Correcting fault condition will cancel fault notification. Lamp failure indication requires a manually activated diagnostic test after lamp replacement to cancel notification.

**IR Remote Control** (optional)- is a hand held device that allows remote activation of diagnostic testing and silencing of the optional buzzer during fault conditions.



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 <p><b>SILENCE ALARM</b></p>  <p><b>1 MINUTE TEST</b></p>  <p><b>30 MINUTE TEST</b></p>  <p><b>90 MINUTE TEST</b></p>  <p><b>CANCEL</b></p>		<p><b>OPTIONAL REMOTE CONTROL</b></p> <p>Front</p> <p>Press appropriate button to perform the indicated test or silence the audible alarm.</p> <p>Cancel stops any test currently in process.</p>
<div style="border: 1px solid black; padding: 5px;"> <p><b>System Reset:</b> Two presses of "SILENCE ALARM" button followed by two presses of "CANCEL" button.</p> <p><b>Interpretation of flashing indicator lights on Equipment:</b></p> <p><b>Green LED Indicator:</b></p> <ul style="list-style-type: none"> <li>• Steady On - Normal</li> <li>• Slow Flash - Battery Charging</li> <li>• Fast Flash - Unit is self-testing</li> </ul> <p><b>Red LED Indicator:</b></p> <ul style="list-style-type: none"> <li>• Single Flash - Battery Fault</li> <li>• Double Flash - Lamp Failure</li> <li>• Triple Flash - Charger Fault</li> <li>• Quad Flash - Emergency Transfer Failure</li> </ul> <p><b>Red and Green LED Indicators flashing together:</b></p> <ul style="list-style-type: none"> <li>• Slow Flashing - Low Line Voltage</li> <li>• Fast Flashing - High Line Voltage</li> </ul> <p><b>Unit Equipment Lamp Calibration</b> Press "Silence Alarm" twice followed by one press of "Cancel" and one press of "Silence Alarm" for Service Call (910)259-1000</p> </div>		<p>Back</p> <p>Explanation of indicator light flash sequences.</p> <p>Refer to Table 2 above for further information.</p>