

Models 141ST-012 and 141ST-024

Electraflash® Lights for Indoor/Outdoor Use
256809 Rev G3 0323

Limited Warranty: This product's limited warranty can be found at www.fedsig.com/SSG-Warranty.

SAFETY MESSAGES TO INSTALLERS AND USERS

It is important to follow all instructions shipped with this product. This device is to be installed by a trained electrician who is thoroughly familiar with the National Electrical Code and/or Canadian Electrical Code and will follow the NEC and/or CEC Guidelines as well as all local codes. This device should be considered a part of the warning system and not the entire warning system.

The selection of the mounting location for the device, its controls, and the routing of the wiring are to be accomplished under the direction of the facilities engineer and the safety engineer. Listed below are some other important safety instructions and precautions you should follow:

- Read and understand all instructions before installing or operating this equipment.
- Do not connect this light to the system when power is on.
- Never alter the light in any manner. Safety may be affected if additional openings or alterations are made to the internal components or housing.
- After installation, test the light system to ensure that it is operating properly.
- Establish a procedure to routinely check the light system for proper activation and operation.
- This device is not to be used as a visual public mode alarm notification appliance.

Failure to follow all safety precautions and instructions may result in property damage, serious injury, or death to you or others.

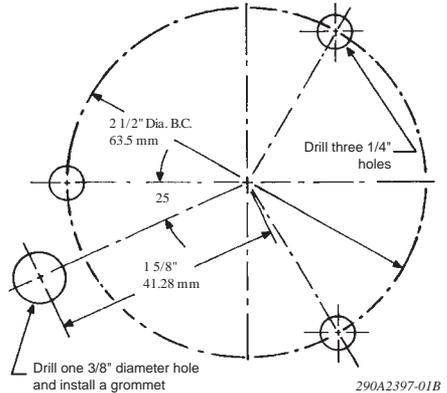
Mounting the Light

This light is intended for indoor or outdoor use. If using the light outdoors, it **MUST** be mounted in a vertical position.

To mount the light:

1. Using Figure 1 as a guide, locate three 1/4" holes and one 3/8" hole at the mounting location.

Figure 1 Drilling guide

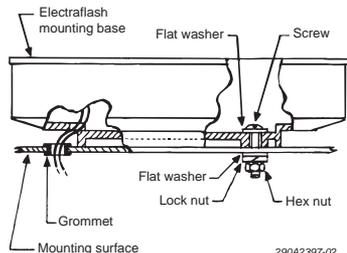


WARNING

DRILLING PRECAUTIONS: When drilling holes, check the area you are drilling into to ensure that you do not damage vehicle components. All drilled holes should be deburred, and all sharp edges should be smoothed. All wire routings going through drilled holes should be protected by a grommet or convolute/split loom tubing.

2. Drill three 1/4" holes and one 3/8" hole at the appropriate locations in the mounting surface.
3. Install a user-supplied grommet in the 3/8" hole.
4. Remove the two screws located at the bottom edge of the dome. Retain these screws.
5. Remove the lens from the light.
6. Attach the light to the mounting surface with user-supplied screws as shown in Figure 2.

Figure 2 Mounting



7. Ensure that all screws are tight.
8. Route the power leads through the previously installed grommet and into the light.
9. Complete the electrical connections as described in the next section.

Wiring the Light

⚠ WARNING

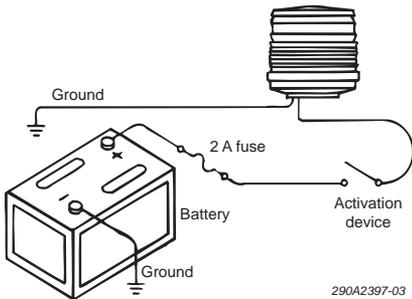
SHOCK HAZARD: To avoid electrical shock hazards, do not connect or disconnect wires while power is applied.

Use only 14 to 18 AWG wire for power connection. Strip no more than 1/4" of wire insulation from the ends of the power leads.

To connect the power:

1. Connect the power leads to the terminals of the two-position connector by inserting the stripped ends of the wire into the connector as far as they can travel. Make sure supply lead insulation is flush with connector. If stranded wire is used, ensure that there are no loose strands outside the connector plug that could touch the adjacent lead and cause a short circuit. Polarity must be observed when making power connections. Connect one of the leads to an activation device. The remaining power lead **MUST** be connected to a good ground. See Figure 3.

Figure 3 Wiring



2. To protect the electrical system, install a user-supplied in-line fuseholder as close as practical to the battery. Install a 2 A fuse in the fuseholder.
3. Place the outer lens back into position. Reinstall the two outer lens screws and apply power to verify proper operation.

Maintaining the Light

SAFETY MESSAGE TO MAINTENANCE PERSONNEL ⚠

Listed below are some important safety instructions and precautions you should follow:

- Read and understand all instructions before operating this system.
- Any maintenance to the light system must be done with power turned off.
- Any maintenance to the light system must be performed by a trained electrician who is thoroughly familiar with all applicable national and local codes in the country of use.
- The nameplate should NOT be obscured, as it contains cautionary and/or other information of importance to maintenance personnel. Ensure that the nameplate remains readable if the housing exterior is painted.
- After performing any maintenance, test the light system to ensure that it is operating properly.

Failure to follow all safety precautions and instructions may result in property damage, serious injury, or death.

Replacing the Strobe Tube

⚠ WARNING

SHOCK HAZARD: Strobe systems generate high voltages. Disconnect power from the strobe system and wait at least 5 minutes before opening the unit. Do not apply power to the unit while it is open. Failure to follow this warning could result in serious injury or death.

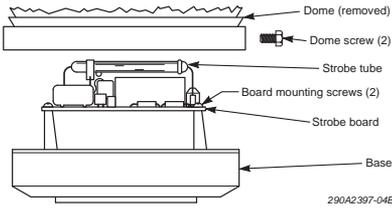
⚠ CAUTION

HANDLE STROBE TUBES CAREFULLY: Strobe tubes get hot enough to burn you. Always allow these tubes to cool before handling them. Strobe tubes are also pressurized and, if broken, can result in flying glass. Failure to follow this warning may result in personal injury.

To replace the tube:

1. Disconnect power from the electrical circuit.
2. Wait five (5) minutes before removing the lens. Remove the two outer lens screws in the base.
3. Carefully remove the burnt out strobe tube; it is best to lift from both sides at once. See Figure 4.

Figure 4 Strobe tube replacement



NOTICE

DO NOT TOUCH THE STROBE TUBE WITH BARE HANDS: Oil deposits on the glass portion of the strobe tube can cause the glass to fracture during use. If you are unsure if the glass has been handled without gloves, clean the glass using a soft cloth and isopropyl alcohol before installing the tube.

4. Replace the new tube, making sure all three pins enter the board connectors. Apply pressure slowly to the ends of the tube, preferably the outer leads, when inserting new tube.
5. Place the outer lens back into position, reinstall the two outer lens screws, and apply power to verify proper operation.

Cleaning the Enclosure

The enclosure should be cleaned periodically to maintain maximum light output. Use only mild, non-abrasive cleaning agents.

Maintenance and Service

Technical Assistance: Contact our Technical Support Team at +1 708-587-3587 or signalsupport@fedsig.com.

Repair Service: A return authorization is required. Contact your Authorized Distributor or Federal Signal Customer Support. Defective products under warranty will be repaired or replaced at Federal Signal's discretion.

Product Returns: Returns require authorization from Federal Signal. Contact your Authorized Distributor for more information on our return policy or to request a return.

Ordering Replacement Parts

Consult the product datasheet online for an updated list of replacement parts. If the product requires a part that is not available for purchase, your unit must be repaired or replaced.

Table 1 Replacement parts

Description	Part Number
Dome, Fresnel, Amber	K8263079A
Dome, Fresnel, Blue	K8263079A-01
Dome, Fresnel, Red	K8263079A-02
Dome, Fresnel, Green	K8263079A-03
Strobe Tube	K149128A



FEDERAL SIGNAL
Safety and Security Systems

2645 Federal Signal Drive, University Park, Illinois 60484

Additional translations available at signaling.fedsig.com

Traducciones adicionales disponibles en signaling.fedsig.com

Customer Support 1-800-344-4634+1-708-534-4756, iordersup@fedsig.com

Technical Support 1-800-755-7621+1-708-587-3587, signalsupport@fedsig.com

signaling.fedsig.com



SCAN ME