

2562664A REV. A 512

## **Safety Message to Installers and Service Personnel of Warning Light Equipment**

### **⚠ WARNING**

People's lives depend on your proper installation and servicing of Federal Signal products. It is important to read and follow all instructions shipped with this product and the original product. In addition, listed below are some other important safety instructions and precautions you should follow:

- To properly install the lighting system, you must have a good understanding of automotive systems, along with proficiency in the installation and use of safety warning equipment.
- A lighting warning system is a high current system. In order for the system to function properly, a separate negative (–) connection and positive (+) connection must be made. All negative connections should be connected to the negative battery terminal and a suitable fuse should be installed on the positive battery terminal connection as close to the battery as possible. Ensure that all wires and fuses are rated correctly to handle the system amperage requirements.
- Do not install equipment or route wiring in the deployment path of an airbag.
- If a vehicle seat is temporarily removed, verify with the vehicle manufacturer if the seat needs to be recalibrated for proper airbag deployment.
- Do not stare into the light at close range or permanent damage to your eyesight may occur.
- Locate the light control so the VEHICLE and CONTROL can be operated safely under all driving conditions.
- Do not attempt to activate or deactivate light control while driving in a hazardous situation.
- When drilling into a vehicle structure, be sure that both sides of the surface are clear of anything that could be damaged.
- Refer to the instructions packed with related products for additional precautions and information.
- You should frequently inspect the light system to ensure that it is operating properly and that it is securely attached to the vehicle.
- File these instructions in a safe place and refer to them when maintaining and/or reinstalling the product.

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

## **Unpacking the Kit**

After unpacking the kit, inspect it for damage that may have occurred in transit. If it has been damaged, do not attempt to install or operate it. File a claim immediately with the carrier, stating the extent of damage. Carefully check all envelopes, shipping labels, and tags before removing or destroying them. Ensure that the parts listed in Table 1 on page 2 are included in the package. If you are missing any parts (Table 1 on page 2), contact Customer Support at 1-800-264-3578, 7 a.m. to 5 p.m., Monday through Friday (CT).

**Table 1** Kit contents

Qty.	Description
1	Grommet
2	Nut, 1/4"-20, Hex
2	Screw, 1/4"-20
2	Washer, Flat, 1/4"
2	Lockwasher, 1/4"
2	Connector

## Installing the Light

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**⚠ WARNING**

**AIRBAG DEPLOYMENT**—Do not install equipment or route wiring in the deployment path of an airbag. Failure to observe this warning will reduce the effectiveness of the airbag, or potentially dislodge the equipment, causing serious injury or death.

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Required for the installation are installer supplied red and black wires of at least 18 AWG and a switch with a current capacity of at least 8 A. To install the AL2 warning light:

1. Before proceeding, plan all wiring and cable routing.
  2. Determine the mounting location for the light.
  3. Scribe two mounting hole locations 6-7/8" apart.
  4. Scribe a location for the wire-routing hole on the mounting surface.
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**NOTICE**

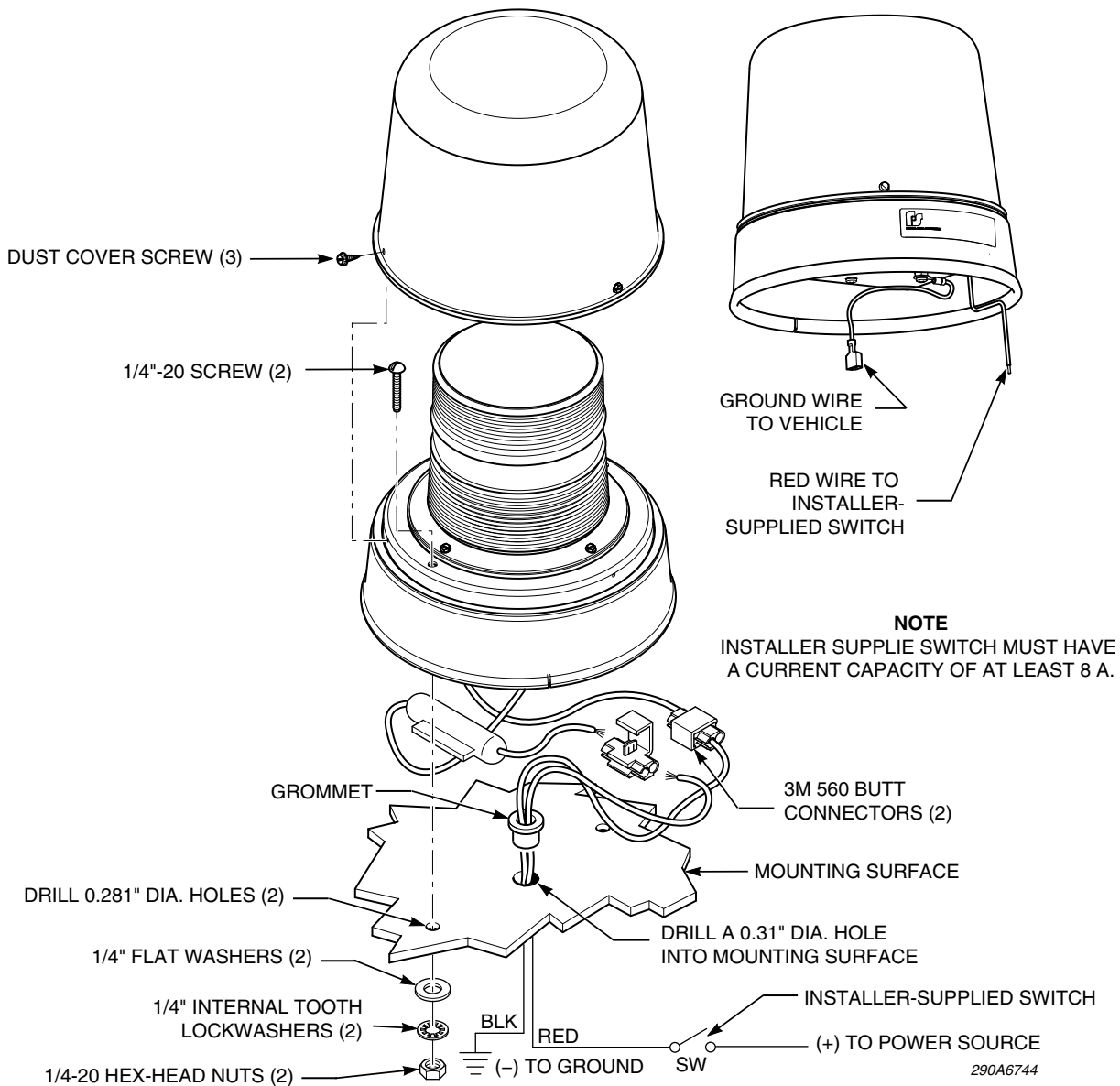
**DRILLING PRECAUTIONS**—Before drilling holes, check the area into which you plan to drill to ensure you do not damage vehicle components. All drilled holes should be de-burred and all sharp edges should be smoothed. All wires going through drilled holes should be protected by a grommet or convolute/split-loom tubing.

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5. Drill a 0.281" hole at each of the scribed mounting hole locations. Drill a 0.31" hole at the location of the scribed wire-routing hole. Remove all burrs and sharp edges.
6. Install the supplied grommet in the wire-routing hole.
7. Install the rubber gasket on the metal base and cut it to the proper length.
8. Route user-supplied red and black wires through the grommet and mounting surface. Use the supplied connectors to splice the wires from the light to the installer-supplied red and black wires.
9. Connect the red wire to one terminal of an installer-supplied switch with a current capacity of at least 8 A. Connect the black wire to the vehicle chassis as close as practical to the light. Connect the remaining switch terminal to the vehicle battery with installer-supplied wire.

**NOTE:** Polarity MUST be observed for proper operation. The red wire connects to positive and the black wire connects to negative. Use 18 AWG wire for runs under 20 feet. For wire runs over 20 feet, consult local electrical codes. Ensure that the supply voltage of the vehicle is within the voltage rating specified on the light.

Figure 1 Wiring from light to vehicle



10. Remove and retain the three screws that secure the dust cover to the base. Remove the dust cover from the base and insert the 1/4"-20 screws through the base.
11. Install the light on the mounting surface using the 1/4"-20 screws, 1/4" lockwashers, flat washers, and hex nuts.
12. Replace the dust cover and secure it with the three dust cover screws.

**⚠ WARNING**

**LIGHT HAZARD**—To be an effective warning device, an emergency warning system produces bright light that can be hazardous to your eyesight when viewed at close range. Do not stare directly into the light at close range or permanent damage to your eyesight may occur.

13. Test the light for proper operation.

## Ordering Replacement Parts

To order replacement parts, please contact your local dealer/distributor or:

Customer Support  
Federal Signal Corporation  
Phone: 1-800-264-3578

**Table 1** Replacement parts

<b>Description</b>	<b>Part Number</b>
Gasket, Dome, Arctic Strobe	200368
Lens HP, Amber	200775
Gasket, Extruded Rubber	205003
Gasket Lens HI/LO Profile	205004
LED PCBA	2005757
Light Shield w/FS Logo	8444313
Dome, Drilled, Arctic Strobe,	8620337

## Getting Technical Support and Service

For technical support and service, please contact:

Service Department  
Federal Signal Corporation  
Phone: 1-800-433-9132  
Fax: 1-800-343-9706  
Email: [empserviceinfo@fedsig.com](mailto:empserviceinfo@fedsig.com)



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[www.fedsig.com](http://www.fedsig.com)