

25500225 Rev. A2 0622

Safety Message to Installers and Service Personnel

⚠ 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. 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.
- This product is intended for supplemental warning and for use in conjunction with an approved primary warning light system. This search light mounting kit is designed for use **ONLY** with the Federal Signal Legend, Integrity, or Allegiant light bar.
- **DO NOT** install equipment or route wiring in the deployment path of an airbag.
- When drilling into a vehicle structure, ensure that both sides of the surface are clear of anything that could be damaged.
- A light system is a high current device. For it to function properly, a separate ground connection must be made. If practical, it should be connected to the negative battery terminal. At a minimum, it may be attached to a solid metal body or chassis part that will provide an effective ground path as long as the light system is used.
- Locate the light system controls so the **VEHICLE** and **CONTROLS** can be operated safely under all driving conditions.
- Periodically inspect the mounting system to ensure 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.

Introduction

The kit enables you to attach a search light onto the Legend, Integrity, or Allegiant light bar with a plate secured through the barrel nut holes in the light bar's top dome. The plate has holes for attaching the search light and two large holes for routing wires. If necessary, additional mounting holes can be drilled into the plate to match holes in the base of the search light.

Unpacking the Kit

After unpacking the kit, inspect it for damage that may have occurred in transit. If the product has been damaged, do not attempt to install or operate it. File a claim immediately with the carrier stating the extent of the damage. Carefully check all envelopes, shipping labels, and tags before removing or destroying them. Ensure that the parts listed in the Kit Contents List are contained in the packing carton.

Table 1 Kit contents

Qty.	Description
1	Plate
12	Rubber Washer
4	5/16-inch Diameter O-Ring
4	Plastic Washer
4	1/4-20 x 1.50" Barrel Nut
4	#8-32 Hex Head Screw
2	Cable Mount
2	Cable Tie
3	#8-32 Hex Washer Head Screw

Preparing the Mounting Plate

To prepare the mounting plate:

1. Remove the barrel nuts securing the light bar dome.
2. Stack three rubber washers over each barrel nut hole.
3. To attach the search light to the mounting plate, refer to instructions included with the search light. On the mounting plate, select the set of #8-32 mounting holes that matches your search light, or add holes if needed. When installed, the hardware should not protrude more than 1/4 inch from the bottom of the plate. The three hex washer head #8-32 screws should be used when permanently mounting the search light.
4. NightSpire® or the permanent mount Spire® beacons.
5. The two large holes in the mounting plate let wiring from the search light enter the gap between the plate and the top dome. Route the power and control wires through the openings and around the light bar. The adhesive cable mounts included in the kit can be used to route the wires.

Mounting the Search Light on the Light Bar

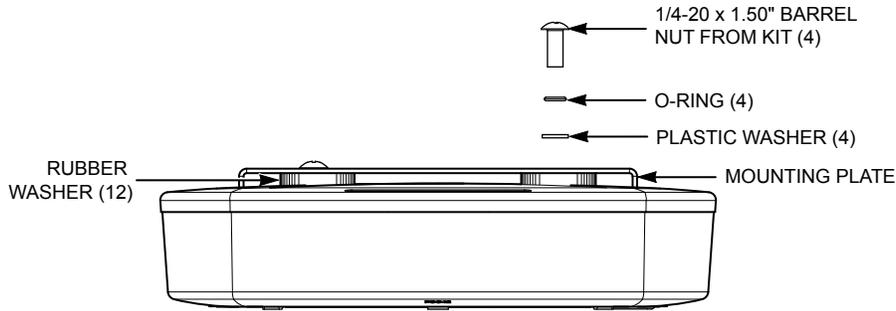
NOTICE

DO NOT DRILL INTO THE LIGHT BAR: Drilling into the top domes of the light bar for hardware or cable routing creates a pathway for water to enter the light bar and is not permitted.

To mount the search light:

1. Place the plate search light assembly onto the light bar and align the corner holes in the mounting plate with the barrel nut holes on the light bar.
2. Place an O-ring and a plastic washer around each of the four 1/4-20 by 1.5-inch barrel nuts included in the kit. See Figure 1.

Figure 1 Mounting bracket attached to the light bar



3. Insert the nuts into the corner holes in the mounting plate.
4. Alternately tighten the barrel nuts until the plate just touches the top dome. To get the threads started, you may have to compress the rubber washers by pressing on the plate. Tighten the barrel nuts to 16-24 in-lb.

NOTICE

DO NOT OVERTIGHTEN THE BARREL NUTS: To avoid damaging the light bar, do not overtighten the barrel nuts.

5. To complete the installation, refer to the instructions included with the search light.

Getting Technical Support

For technical support, please contact:

Federal Signal Corporation
Service Department
Phone: 1-800-433-9132
Email: empSERVICEINFO@fedSIG.COM

Getting Repair Service

The Federal Signal factory provides technical assistance with any problems that cannot be handled locally. Any units returned to Federal Signal for service, inspection, or repair must be accompanied by a Return Material Authorization (RMA). Obtain an RMA from a local Distributor or Manufacturer's Representative. Provide a brief explanation of the service requested or the nature of the malfunction.

Address all communications and shipments to the following:

Federal Signal Corporation
Service Department
2645 Federal Signal Dr.
University Park, IL 60484-3167

Ordering Replacement Parts

To order replacement parts, call Customer Support at 1-800-264-3578, 7 am to 5 pm, Monday through Friday (CT), or contact your nearest distributor.

Limited Warranty

This product is subject to and covered by a limited warranty, a copy of which can be found at www.fedsig.com/SSG-Warranty. A copy of this limited warranty can also be obtained by written request to Federal Signal Corporation, 2645 Federal Signal Drive, University Park, IL 60484, email to info@fedsig.com or call +1 708-534-3400.

This limited warranty is in lieu of all other warranties, express or implied, contractual or statutory, including, but not limited to the warranty of merchantability, warranty of fitness for a particular purpose and any warranty against failure of its essential purpose.



FEDERAL SIGNAL Safety and Security Systems

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Customer Support

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