

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.
- This product is intended for supplemental warning and for use in conjunction with an approved primary warning light system. This searchlight mounting kit is designed for use **ONLY** with the Federal Signal LEGEND lightbar.
- **DO NOT** install equipment or route wiring in the deployment path of an air bag.
- When drilling into a vehicle structure, be sure 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.
- The mounting system should be periodically inspected 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 to you or others.

Introduction

The kit attaches a searchlight onto the LEGEND lightbar with a plate secured through the barrel-nut holes in the lightbar's top dome. The plate has screw holes for attaching the searchlight and two large holes for routing wires. If necessary, additional mounting holes can be drilled into the plate to match holes in the searchlight's base.

Unpacking the Kit

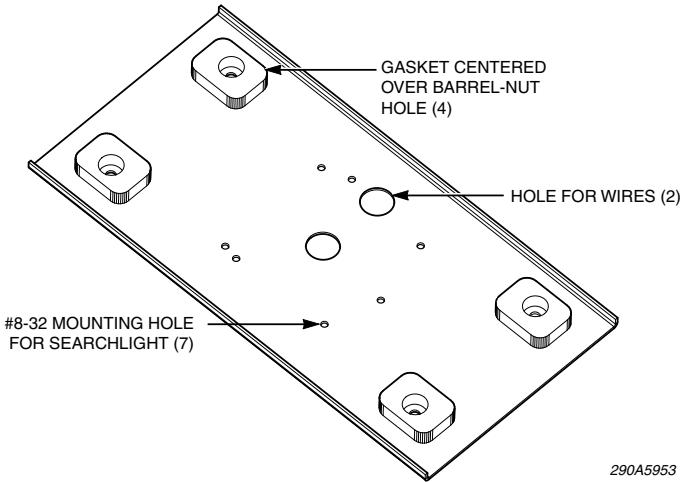
After unpacking the kit, inspect it for damage that may have occurred in transit. If the product has been damaged, do not attempt to install or operate it. File a claim immediately with the carrier stating the extent of damage. Carefully check all envelopes, shipping labels, and tags before removing or destroying them. Ensure that the parts listed in the KIT CONTENTS LIST are contained in the packing carton (*Table 1*).

Table 1: Kit contents

Qty.	Description
1	Plate
4	Gasket
4	O-Ring, 5/16 diameter
4	Nut, Barrel, 1/4-20 x 1.50
4	Screw, Hex Head, #8-32

Preparing the Mounting Plate

1. On the underside of the mounting bracket, center and adhere a gasket over the 0.28-inch-diameter hole in each corner (*Figure 1*).



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Figure 1: Gaskets on the underside of the mounting bracket

2. To attach the searchlight to the mounting plate, refer to the searchlight's instructions. On the mounting plate select the set of #8-32 mounting holes that matches your searchlight, or add holes if needed. When installed, the hardware should not protrude more than 1/4-inch from the bottom of the plate.

- The two large holes in the plate let wiring from the searchlight enter the gap between the plate and the top dome (*Figure 2*). Route the power and control wires through the openings and around the lightbar. The adhesive cable mounts in the kit can be used to route the wires.

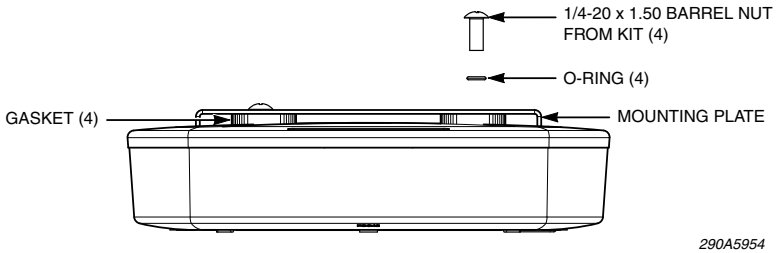


Figure 2: Mounting bracket attached to the lightbar

Mounting the Searchlight on the Lightbar

NOTICE

DO NOT DRILL INTO THE LIGHTBAR

Drilling into the lightbar's top domes for hardware or cable routing creates a pathway for water to enter the lightbar and is not permitted.

- At the end of the lightbar where the searchlight will be mounted, remove the four barrel nuts that secure the top dome. Leave the top dome in place.
- Place the plate searchlight assembly onto the lightbar and align the plate's corner holes with the barrel-nut holes on the lightbar.
- Place an O-ring around each of the four kit barrel nuts (1/4-10 x 1.50) and insert the nuts into the plate's corner holes.
- Alternately tighten the nuts until the plate just touches the top dome. To get the threads started, you may have to compress the gaskets by pressing on the plate.

NOTICE

DO NOT OVERTIGHTEN NUTS

To avoid damaging the lightbar, do not overtighten the barrel nuts.

- To complete the installation, refer to the searchlight's instructions.

