

2562544A Rev. A1 0620

Safety Message to Installers of Federal Signal Warning Light Systems

⚠ 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 a light assembly, you must have a good understanding of automotive electrical procedures and systems, along with proficiency in the installation and use of safety warning equipment.
- Always refer to the vehicle service manuals when performing equipment installations on a vehicle.
- When drilling into a vehicle structure, ensure that both sides of the surface are clear of anything that could be damaged.
- Locate the light system controls so the VEHICLE and CONTROLS can be operated safely under all driving conditions.
- 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 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 to you or others.
- To avoid damage to the light bar, do not overtighten screws and nuts.
- 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 lights at a close range, or permanent damage to your eyesight may occur.
- For additional precautions and information, refer to the instructions packed with related products.
- 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 or reinstalling the product.

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

Introduction

This publication provides instructions for installing the Center Mount Kit on the 60-inch Vision SLR light bar. The kit, which is installed during the installation of the light bar, must be used with both the Hook and Permanent mounting kits to ensure the stability of the light bar on the vehicle. An installer-supplied control head for controlling the functions of the light bar is also required.

Unpacking the Kit

After unpacking the kit, inspect it for damage that may have occurred in transit. If it has been damaged, 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 shown in Table 1 are contained in the packing carton. If you are missing any parts, 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	Part No.
1	1/4-20 Stainless Steel Carriage Bolt	7004A020-40
2	1/4-20 Stainless Steel Keps® Nuts	7058050
2	1/4-inch Stainless Steel Flat Washer	7072A024
2	1/4-inch Neoprene™ Washer	7072A148

*Installer-supplied RTV for sealing the drilled hole is also required.

Preparing the Light bar for Installation

Install the Center Mount Kit:

- after you have determined the mounting position of the light bar on the vehicle
- after you have assessed the ability of the roof to support the nose of the light bar and have fabricated any necessary additional support
- and before the actual installation of the light bar

⚠ WARNING

HEAVY OBJECT: Use lifting aids and proper lifting techniques when removing or replacing the light bar. Failure to follow this warning may cause personal injury.

⚠ WARNING

ROOF SUPPORT STRUCTURE: There is a roof support member that spans the distance between the driver and passenger side. **DO NOT DRILL THROUGH THIS MEMBER!** Adjust any hole locations until the holes can be drilled without going through this member. Failure to follow this warning will weaken the roof of the vehicle and may lead to an increased chance of bodily injury or death in a rollover accident.

NOTICE

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

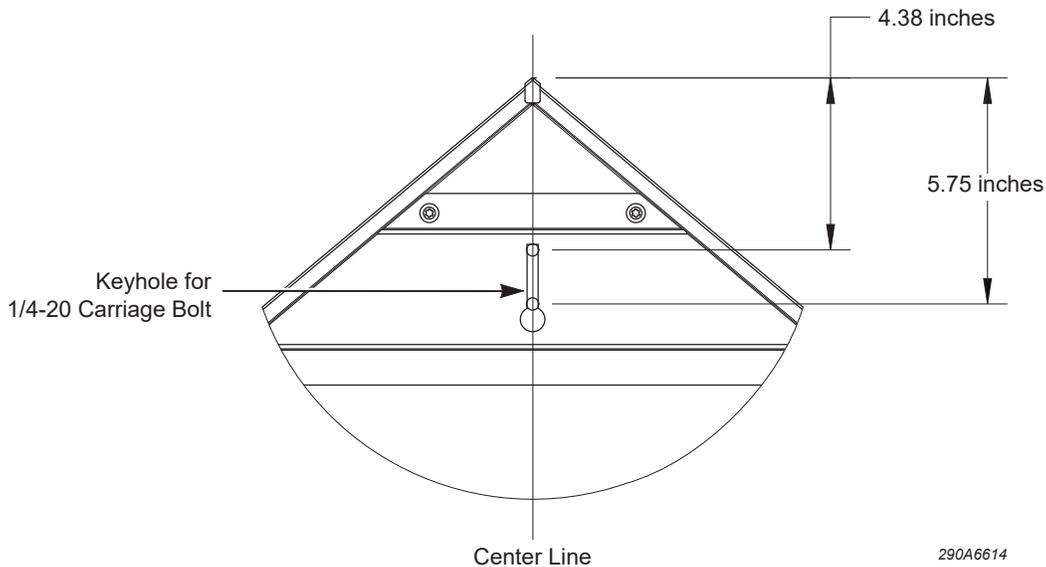
NOTICE

VEHICLE ROOF STRENGTH: The vehicle roof may have inadequate structure to properly support the nose of the light bar. To prevent drumming or damage to the vehicle roof, you must assess the structure and to fabricate additional support as needed.

To install the mounting hardware:

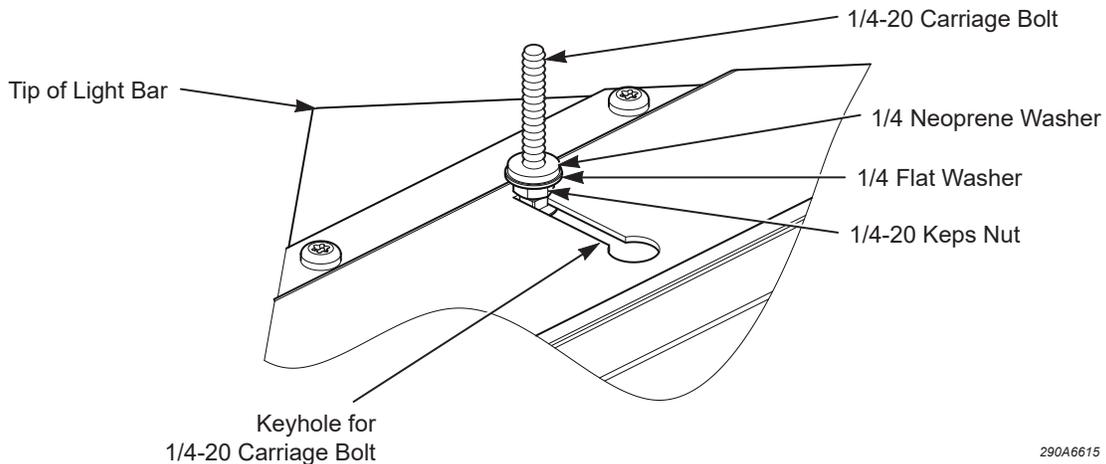
1. Mark an insertion point on the vehicle roof for the carriage bolt that is between 4-3/8 inches and 5-3/4 inches from the V-shaped tip of the light bar inward along the center line. See Figure 1.

Figure 1 Location of keyhole in light bar base for carriage bolt



2. Drill a 5/16-inch hole at the mark.
3. Install on the carriage bolt a Keps® nut, a flat washer, and a neoprene washer. See Figure 2.

Figure 2 Mounting hardware installed in keyhole



4. Insert the carriage bolt into the keyhole in the base of the light bar as shown in Figure 2. To prevent the nut and washers from interfering with the vehicle roof during the installation, ensure that they are close to the mounting bracket.
5. Apply a bead of RTV around the 5/16-inch hole.

Installing the Light Bar on the Vehicle

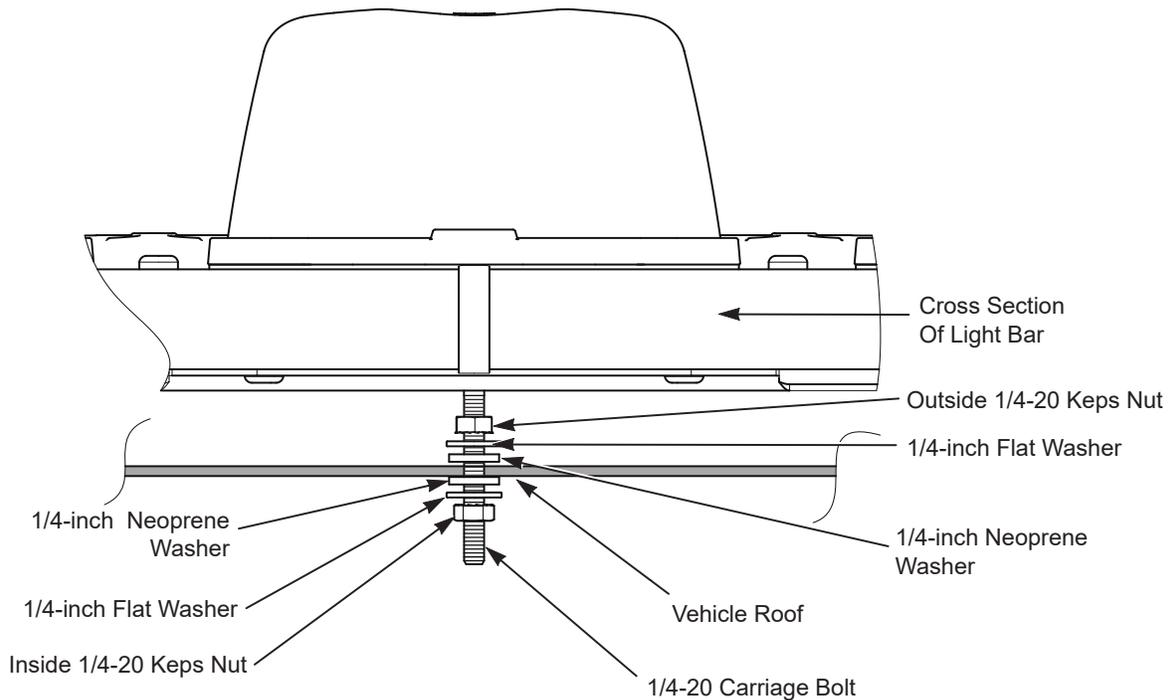
⚠ WARNING

HEAVY OBJECT: Use lifting aids and proper lifting techniques when removing or replacing the light bar. Failure to follow this warning may cause personal injury.

To install the light bar on the vehicle:

1. Place the light bar on the vehicle while guiding the carriage bolt into the 5/16-inch hole. Complete the installation as detailed in the instructions for the Hook-On (Doc. No. 2452541) or Permanent Mounting Kit (Doc. No. 2562542).
2. Verify that the light bar is level, and then twist the outside Keps® nut down on the Neoprene® washer so the washer meets the roof.
3. From inside of the vehicle, install a Neoprene washer, a flat washer, and Keps nut on the carriage bolt. See Figure 3.

Figure 3 Location of keyhole in light bar base for carriage bolt



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4. Tighten the inside Keps nut until the washer begins to bulge. **Do not exceed 60 in-lb.**
5. Cut the bolt flush with the inside Keps nut.

Ordering Replacement Parts

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

Customer Support
Federal Signal Corporation
Phone: 1-800-264-3578
7 a.m. to 5 p.m., Monday through Friday (CT)

Getting Technical Support

For technical support, please contact:

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

Getting Repair Service

The Federal Signal factory provides technical assistance with any problems that cannot be handled locally. Any product returned to Federal Signal for service, inspection, or repair must be accompanied by a Return Material Authorization (RMA). Obtain a 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

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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