

2562541A REV. A 1210

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. In addition, 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.
- Frequently inspect the light system to ensure that it is operating properly and that it is securely attached to the vehicle.
- Always refer to the vehicle service manuals when performing equipment installations on a vehicle.
- When drilling into a vehicle structure, be sure 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 lightbar, do not overtighten screws and nuts.
- This product contains high intensity LED devices. To prevent permanent eye damage, DO NOT stare into the light beam at close range.
- For additional precautions and information, refer to the instructions packed with related products.
- 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 Vision™ SLR lightbar to a vehicle with the Hook-On Mounting Kit. To complete the installation, it is necessary to purchase a vehicle-specific mounting hook kit.

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 damage. Carefully check all envelopes, shipping labels, and tags before removing or destroying them. Ensure that the parts shown in Table 1 on page 2 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). Also required is an installer-supplied control head for controlling the functions of the lightbar.

Table 1 Kit contents

Qty.	Description	Part No.
1	Foot Assy, Mounting, LH	8652171
1	Foot Assy, Mounting, RH	8652172
2	Bracket, Hook Attach	8652125
2	Retainer, Nut	8583490
2	Nut, 5/16"-18, Flange,	7065078
4	Screw, #10 Type B, Pan Torx, SS Black	7011246-08
8	Lockwasher, 3/8, SS	7074A046
8	Nut, 3/8"-16, Steel, HCR	7059124

The items above are installed on new lightbars at the factory.

4	Bracket Assy, Adj. Foot	8652124
4	Pad, Mounting	8572029
8	Washer, 5/16", SS Black	7072234
8	Lockwasher, 5/16", SS Black	7074A020-01
8	Screw, 5/16"-18, Pan Torx, SS Black	7000434-10
4	Screw, #10 Type B, Pan Torx, SS Black	7011246-08
2	Grommet, Split	228128
2	Cable Tie	150A109

⚠ WARNING

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

NOTE: To aim the optional LED takedown lights to the 45 degree or 90 degree position (+/- 10 degrees), move the lights to the top of the mounting feet before the installation. See “Aiming the Optional HotFoot LED Takedown Lights” on page 6.

Installing the Service Kit Mounting Feet

NOTICE

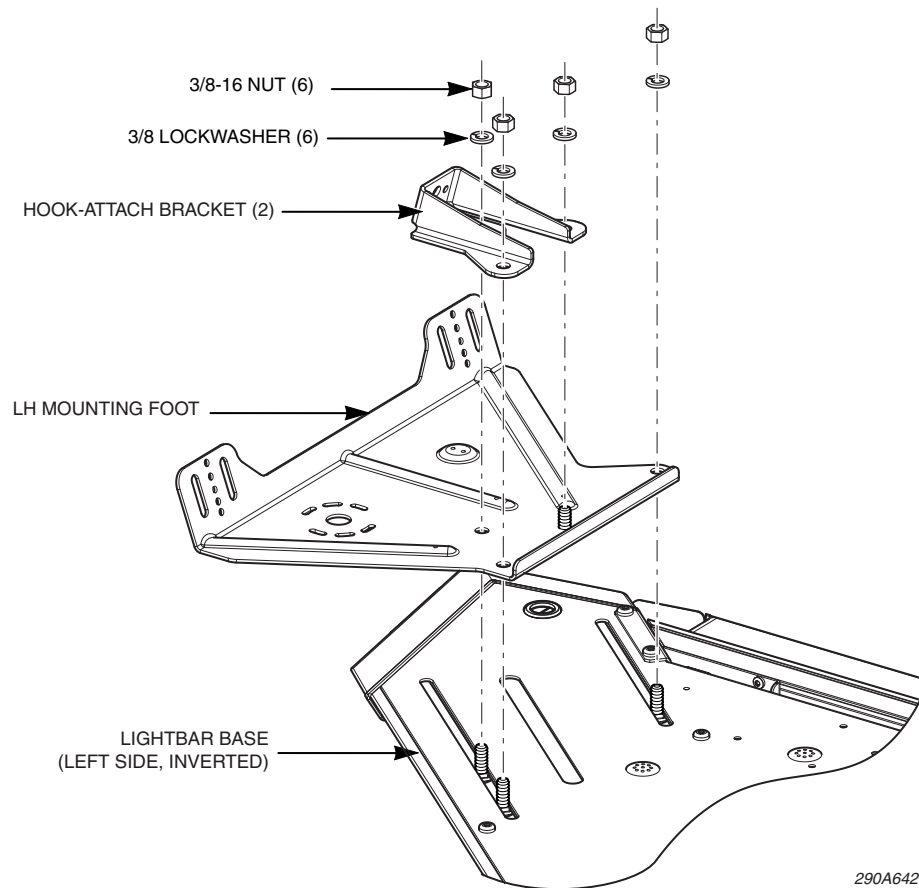
ENSURE PROPER INSTALLATION OF THE MOUNTING FEET—Note that the LH mounting foot is for the left side of the lightbar and RH mounting foot is for the right side. Failure to follow this precaution may damage the lightbar.

The Service Kit requires that you assemble the mounting feet on the lightbar. If you are installing a new lightbar, which is shipped with the mounting feet already attached, see “Installing the Adjustable Foot Brackets” on page 4. New lightbars may require that you loosen the 3/8"-16 nuts to adjust the positions of the mounting feet on the vehicle roof.

To install the Service Kit mounting feet:

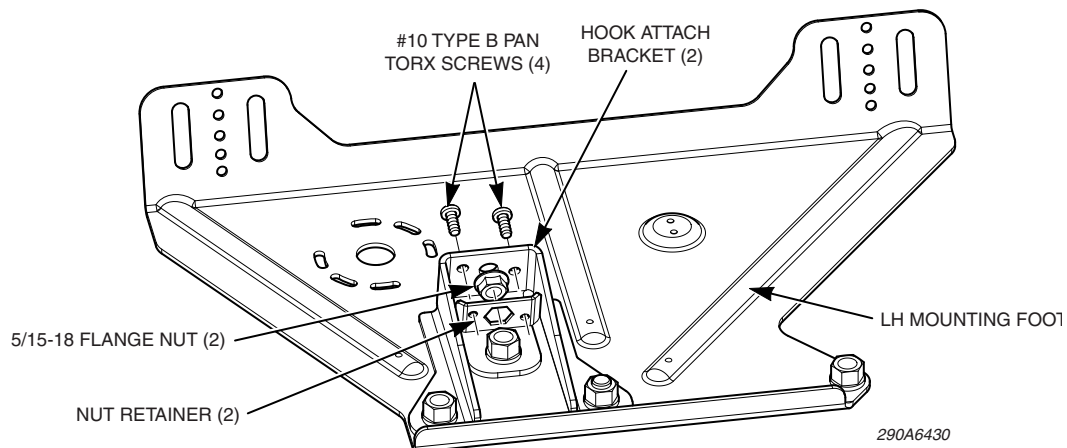
1. To avoid marring the plastic domes, invert the lightbar on soft rags or cardboard.
2. Use the four 3/8"-16 nuts and lockwashers to install a mounting foot assembly and a hook-attach bracket on the lightbar (Figure 1 on page 3). Tighten the nuts only enough to hold the mounting foot assembly in place.

Figure 1 Mounting foot installation



3. Use a nut retainer and two #10 Type B pan Torx screws to trap the 5/16"-18 flange nut on the backside of the hook-attach bracket (Figure 2).
4. Repeat steps 2 and 3 with the other mounting foot assembly.
5. To continue with the installation, see "Installing the Adjustable Foot Brackets" on page 4.

Figure 2 Hook-attach bracket installation



Installing the Adjustable Foot Brackets

⚠ 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 roll-over accident.

NOTICE

ENSURE PROPER INSTALLATION OF MOUNTING FEET—Note that the LH Mounting Foot is for the left side of the lightbar and the RH Mounting Foot is for the right side. Failure to follow this precaution may damage the lightbar.

NOTICE

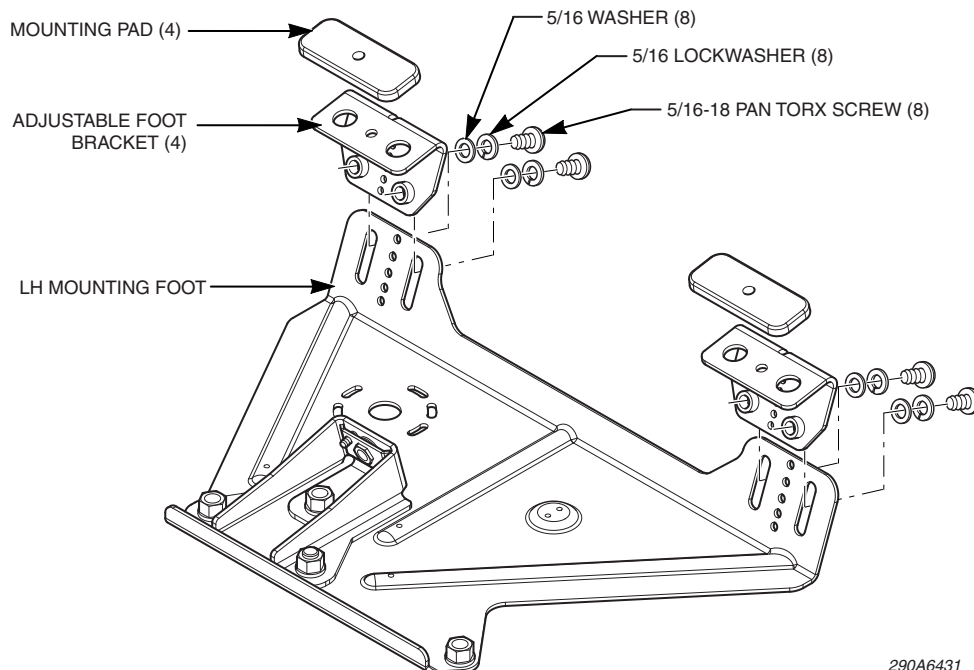
DRILLING PRECAUTIONS—When drilling holes, check the area into which you are drilling to be sure you do not damage vehicle components while drilling. All drilled holes should be de-burred and all sharp edges should be smoothed. All wire routings going through drilled holes should be protected by a grommet or convolute/split loom tubing

IMPORTANT: Plan all cable routing before completing the installation. Plan the location of the wire-routing hole in the vehicle roof so that the power and communication cables do not have tight bends and have some slack to allow disconnection on removal.

The adjustable foot brackets enable you mount the Vision SLR at the maximum height and to level the lightbar. To install the brackets:

1. To avoid marring the plastic domes, invert the lightbar on soft rags or cardboard.
2. See Figure 3. Use the 5/16"-18 pan Torx screws, 5/16" flat washers, and 5/16" lockwashers to install the adjustable foot brackets on the mounting feet.

Figure 3 Adjustable foot bracket installation



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3. To achieve the maximum mounting height of the lightbar, position the screws in the adjustable foot brackets at the bottom of the slots. Tighten the screws only enough to hold the adjustable foot brackets in place.
4. Peel the backing paper from the rubber mounting pads and apply the them to the adjustable feet as shown in Figure 3 on page 4.
5. To continue with the installation, see “Preparing the Vision SLR for Hook-Mounting” below.

Preparing the Vision SLR for Hook-Mounting

To prepare the lightbar for hook-mounting:

1. Place the lightbar assembly on the vehicle roof at the selected location. The assembly is usually installed so that the mounting hooks attach at, or immediately behind, the door center post. Before proceeding, refer to the instructions provided with the separately purchased mounting hook kit.
2. Adjust both mounting foot assemblies in or out until the mounting pads rest near the edge of the roof or gutter where the roof is the most rigid.
3. Center the lightbar assembly so that the end of the assembly and edge of the roof are equidistant on each side of the vehicle. Ensure that the gutter hooks, when installed, do not interfere with the door or door glass. Improper clamping on the vehicle roof may result if the gutter hooks contact the mounting feet. Adjust the mounting feet, if required, before tightening the 3/8"-16 hex nuts.
4. Remove the lightbar assembly from the vehicle roof and place it on soft rags or cardboard to avoid marring the plastic domes.
5. Turn the lightbar assembly over so that the bottom faces up. Tighten the eight 3/8"-16 nuts (four on each mounting foot) installed in “Installing the Service Kit Mounting Feet” on page 2.

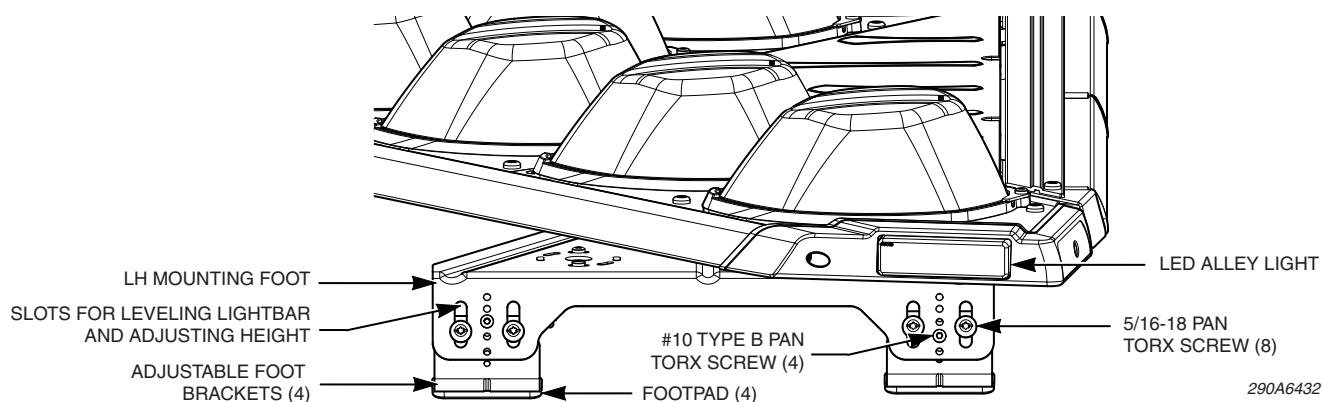
Hook-Mounting the Vision SLR on the Vehicle

To mount the lightbar on the vehicle:

1. Place the lightbar assembly back into its original position on the vehicle roof.
2. To maximize aerodynamic efficiency, it is recommended that the lighting system be mounted as high as possible. Adjust the adjustable foot brackets on the mounting feet as required (Figure 4 on page 6).
3. Check to ensure that the lightbar assembly is level. If it is not level, adjust it by rotating it in the mounting foot slots.
4. See Figure 4 on page 6. Using the holes that are most closely aligned between the 5/16" Torx pan screws, install a #10 Type B pan Torx screw to lock in the adjustment. Minor adjustment may be necessary. Repeat this step for all four adjustable foot brackets.
5. Tighten all eight 5/16" Torx pan screws that fasten the adjustable foot brackets to the mounting feet.
6. To fasten the mounting hook, refer to the keeper plate instructions (Federal Signal Part No. 2561635) included in the supplied Keeper Plate Kit.

IMPORTANT: Frequently inspect the lightbar assembly to ensure that all fasteners and brackets are tight.

Figure 4 Lightbar mounted on vehicle roof



Aiming the Optional HotFoot LED Takedown Lights

The optional HotFoot LED takedown lights are factory-wired and installed on the bottom of the mounting foot. Beneath the mounting foot the aim of the lights is horizontally adjustable ± 10 degrees.

To aim the takedown lights to the 45 degree or 90 degree position (± 10 degrees), move the lights to the top of the mounting feet before the installation. See “Inverting and Aiming a Takedown Light Above the Mounting Foot” below.

Aiming a Takedown Light Beneath the Mounting Foot

To adjust the horizontal aim (± 10 degrees) of the takedown light:

1. Loosen the 10-32 pan Torx screws as shown in Figure 5 on page 7.
2. Reposition the light and tighten the screws.

Inverting and Aiming a Takedown Light Above the Mounting Foot

To aim the LED takedown lights to the 45 degree or 90 degree position:

1. Cut the cable tie securing the connector to the underside of the foot and unplug the connector.
2. Remove the two 10-32 pan Torx screws and the takedown light.
3. Install the split grommet over the cable, and feed the cable through the foot from the top. Install the grommet securely in the hole (Figure 6 on page 7).
4. Aim the LED takedown and install the 10-32 pan Torx screws from the bottom of the foot.
5. Reconnect the connector and secure it to the foot with the cable tie.
6. Test the light to verify that it operates properly.

Figure 5 LED takedown light mounted beneath mounting foot

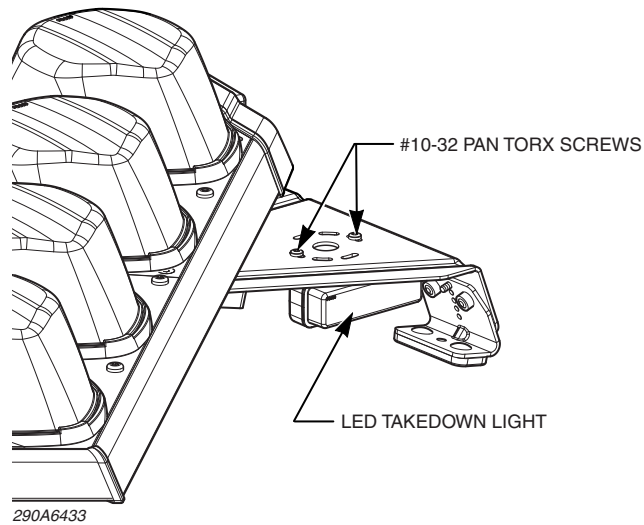
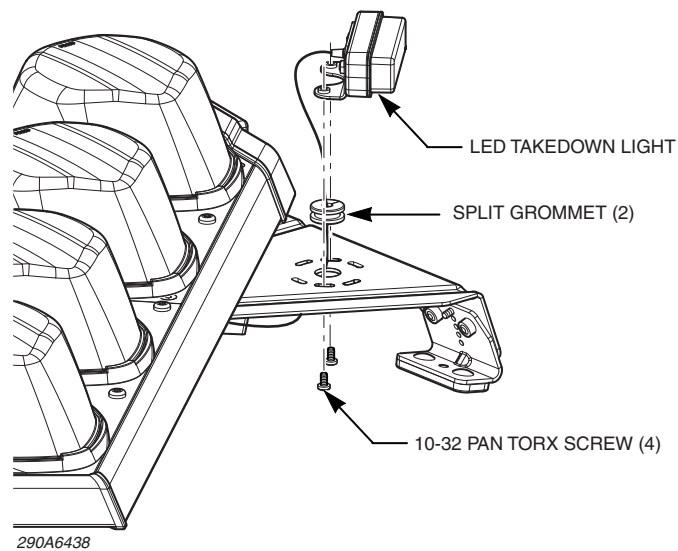


Figure 6 LED takedown light mounted above mounting foot



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 and Service

The factory will service the Vision SLR for you. If you are experiencing problems, please contact:

Service Department

Federal Signal Corporation

Phone: 1-800-433-9132

Fax: 1-800-343-9706

Email: empserviceinfo@fedsig.com

7 a.m. to 5 p.m., Monday through Friday (CT)

Returning a Product to Federal Signal

Before returning a product to Federal Signal, call 800-264-3578, 800-433-9132, or 800-824-0254 to obtain a Returned Merchandise Authorization number (RMA number). To expedite the process please be prepared with the following information:

- Your Federal Signal customer or account number.
- The purchase order number under which the items were purchased.
- The shipping method.
- The model or part number of the product being returned.
- The quantity of products being returned.
- Drop ship information as needed.
- Any estimate required.

When you receive your RMA Number:

- Write the RMA number on the outside of the box of returned items.
- Reference the RMA number on your paperwork inside of the box.
- Write the RMA number down, so that you can easily check on status of the returned equipment.

Send all material with the issued RMA Number to:

Federal Signal Corporation

2645 Federal Signal Drive

University Park, IL 60484-3167

Attn: Service Department

RMA: # _____



2645 Federal Signal Drive, University Park, IL 60484-3167

Tel.: (800) 264-3578 • Fax: (800) 682-8022

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