

25500173 Rev. A0

Safety Message to Installers 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.
- 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.
- You should frequently inspect the light system to ensure that it is operating properly and that it is securely attached to the vehicle.
- 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.
- File these instructions in a safe place and refer to them when maintaining and/or reinstalling the product.
- Do not stare directly into the lights at a close range or permanent damage to your eyesight may occur.

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

Introduction

This publication has instructions for installing the Rooftop-Mount Quick Disconnect for the Vision® SLR. The Quick Disconnect enables service personnel to quickly disconnect both power and communication together without opening the lightbar. The cables are factory installed on the Vision SLR. No connections inside the lightbar are required.

NOTE: For electrical installation instructions, including instructions on mating and unmating the Quick Disconnect connectors, refer to the Installation and Maintenance Instructions packed with the lightbar.

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 are included in the package. 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 Number
1	Stud Plate Assy.	865200989
1	Gasket	8652152
1	Seal, Roof	865200990
3	Nut, Elastic, Stop, Hex, 8-32, SS	7058056

Installing the Quick Disconnect

⚠ WARNING

AIRBAG DEPLOYMENT: Do not install equipment or route wiring in the deployment 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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DRILLING PRECAUTIONS: Before drilling holes, check the area into which you plan to drill to ensure you do not damage vehicle components while drilling. 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.

NOTE: Due to the crown of the roof, the drainage of the roof seal is designed for installation of the passenger side of the vehicle. The Quick Disconnect must be installed with the two electrical connectors facing the rear of the vehicle.

IMPORTANT: Plan all cable routing before the installation.

Tools needed:

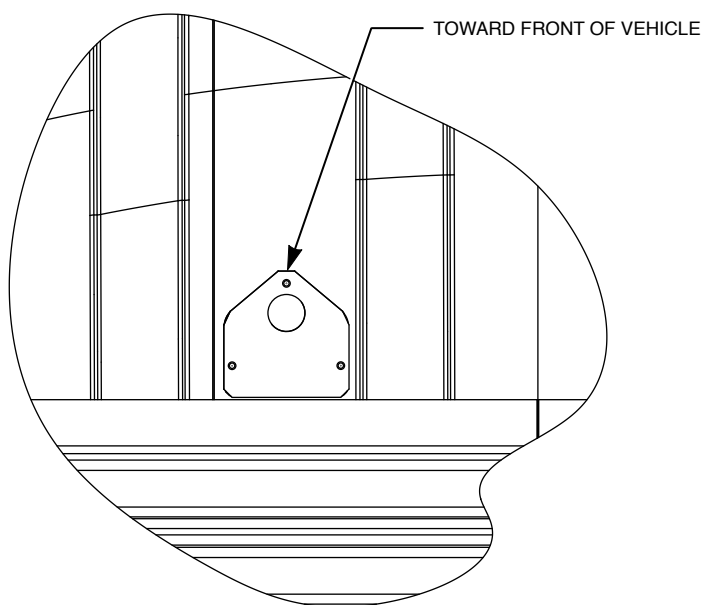
Power drill
3/16" drill bit
7/8" drill bit
Scratch awl
RTV sealant

Preparing the Installation Surface

To prepare the installation surface for the stud plate:

1. Following the vehicle manufacturer instructions, remove the headliner.
2. See Figure 1. From inside the vehicle, position the stud plate against the roof so it clears ribs, braces, and other interferences.
3. Mark the center of the large cable routing hole in the stud plate and drill a 7/8" (0.875") hole.
4. Snap the roof seal into the 7/8" hole and use it as template to mark the three stud locations with a scratch awl.
5. Remove the roof seal and drill the three holes with a 3/16" (0.188") drill.

Figure 1 Position of studplate on interior of roof

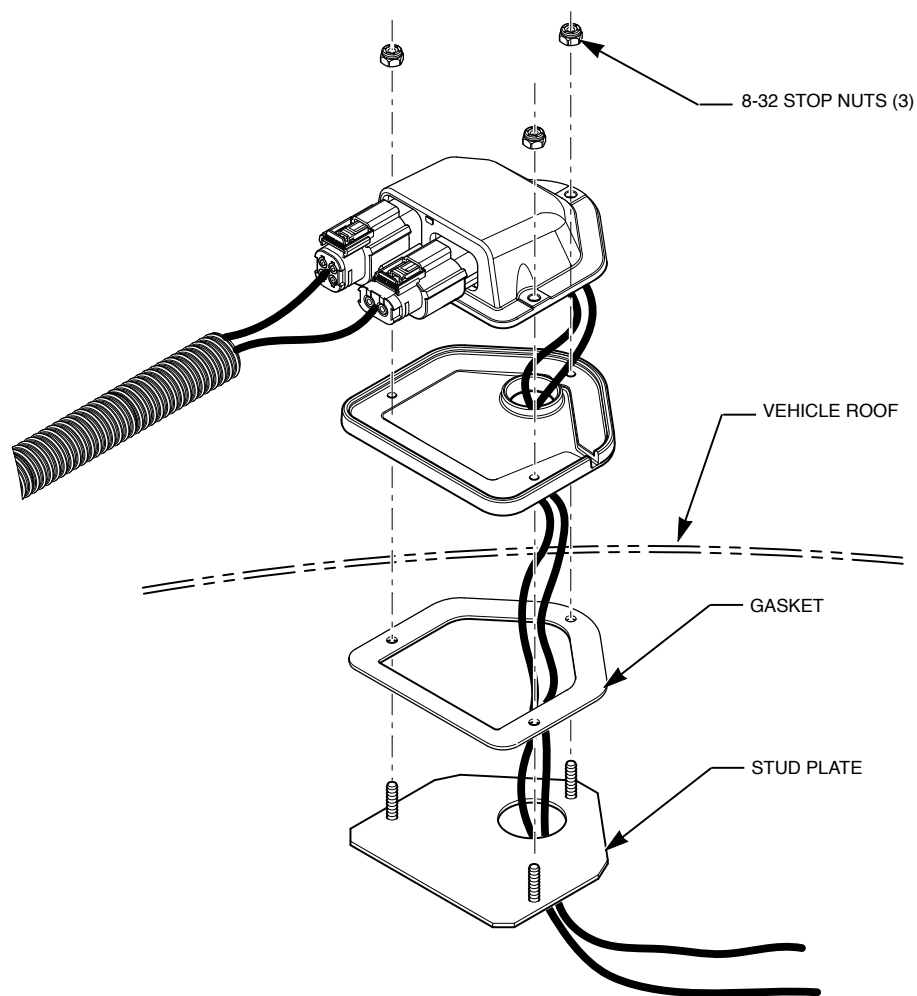


Completing the Installation

To complete the installation:

1. See Figure 2. on page 4. Apply the gasket to the stud plate.
2. From outside the vehicle, route the cables through the roof seal, roof, then the stud plate.
3. Seal all drilled holes with RTV and snap the roof seal in place.
4. From inside the vehicle, push the stud plate into position. The friction of the roof seal will hold the plate up.
5. Seal the cables to the roof seal with RTV and lower the housing over the studs.
6. Install the 8-32 stop nuts. Tighten the stop nuts just until the roof seal starts to bulge. **Do not over-tighten the screws.**
7. Reinstall the headliner.
8. Complete the wiring according to the instructions supplied with the lightbar.

Figure 2 Exploded view of Quick Disconnect installed on roof



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