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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. 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.
- 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, ensure 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 light bar. The cables are factory installed on the Vision SLR. No connections inside the light bar 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 light bar.

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 the 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 Assembly	865200989
1	Gasket	8652152
1	Roof Seal	865200990
3	8-32 Hex Head Elastic Stop Nut Stainless Steel	7058056
3	#8-32 Stainless Steel Acorn Nut	7054017
1	FPIU20 Stud Plate Assembly, 1-inch studs*	865200989-16
1	FPIU20 Roof Seal*	865203359

* These two items are used for Ford Interceptor Utility, 2020+

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.

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.

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:

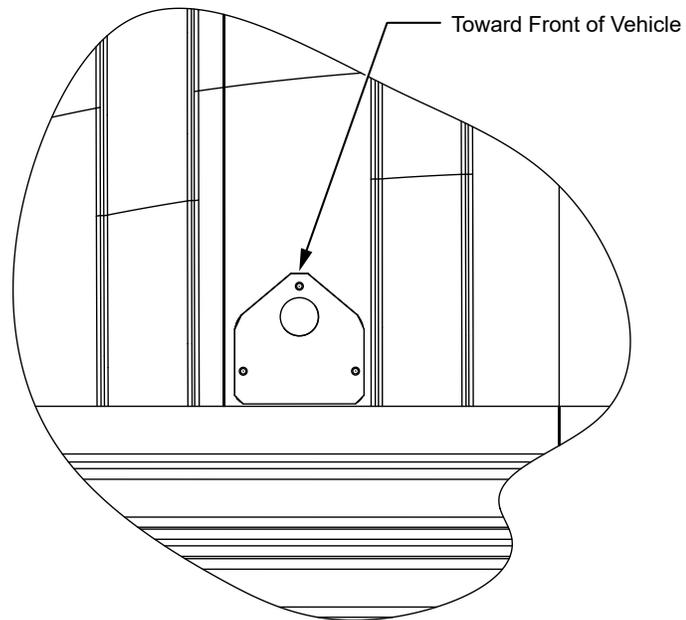
- Power drill
- 3/16-inch drill bit
- 7/8-inch drill bit
- Scratch awl
- RTV sealant

Preparing the Installation Surface

To prepare the installation surface for the stud plate:

1. Following the vehicle manufacturer instructions, remove the headliner.
2. From inside the vehicle, position the stud plate against the roof so it clears ribs, braces, and other interferences. See Figure 1. For Ford Interceptor Utility, 2020+, verify that the seal will sit properly between the roof ribs.

Figure 1 Position of stud plate on interior of roof



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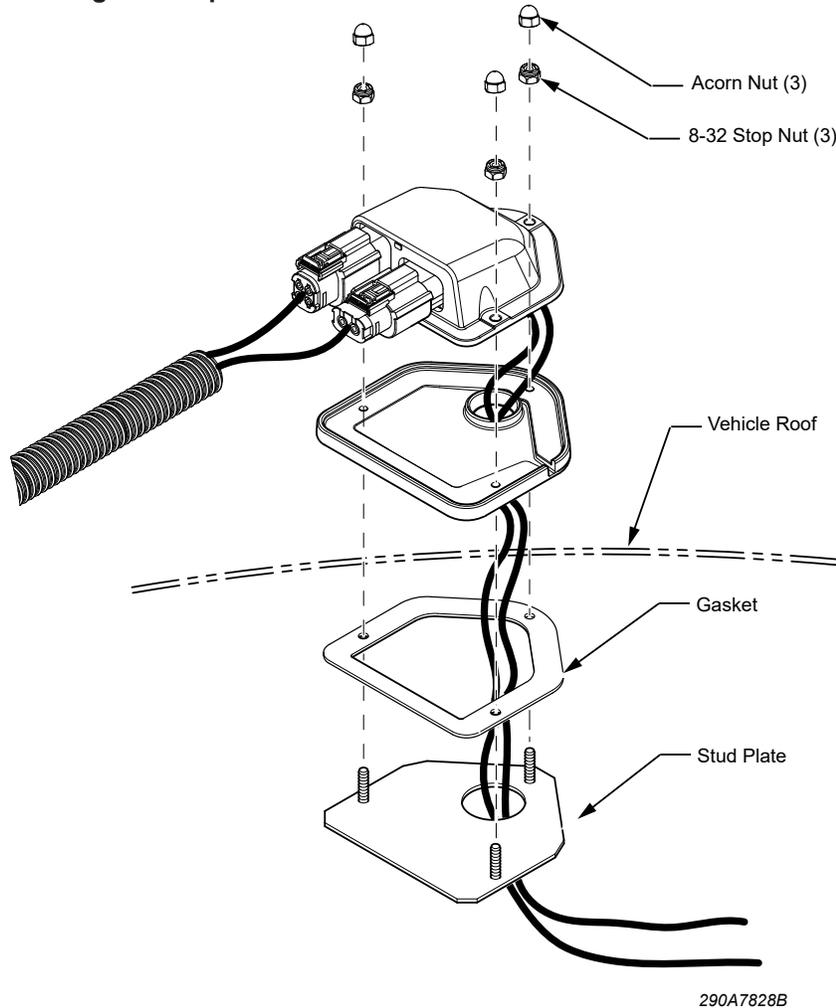
3. Mark the center of the large cable routing hole in the stud plate and drill a 7/8-inch hole.
4. Snap the appropriate roof seal into the 7/8-inch hole and use it as template to mark the three stud locations with a scratch awl.
5. Remove the roof seal and drill the three holes with a 3/16-inch drill.

Completing the Installation

To complete the installation:

1. Apply the gasket to the appropriate stud plate. See Figure 2.

Figure 2 Exploded view of Quick Disconnect installed on roof



2. From outside the vehicle, route the cables through the roof seal, roof, and then the appropriate 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 overtighten the nuts.**
7. If you are not using the FPIU20 assembly, tighten the acorn nuts over the stop nuts. **Do not overtighten the nuts.**

8. Reinstall the headliner.
9. Complete the wiring according to the instructions supplied with the light bar.

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.

Ordering Replacement Parts

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



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Customer Support

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