

25500563 Rev. A0 0519

## **Safety Message to Installers and Service Personnel of Emergency Vehicle Safety 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.
- Do not stare directly into the lights at a close range, or permanent damage to your eyesight may occur.
- You should inspect the light system frequently 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.

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

### **Introduction**

This publication covers the installation of a Federal Signal ILS warning light system in the front headliner of a full size 2019 Ford Transit Low Roof. The part numbers in these instructions are for vehicle-specific mounting options that are ordered with the product. All mounting systems consist of aluminum shrouds and steel mounting brackets, all of which are powder coated. Mounting hardware is included with each kit.

### **Unpacking the Product**

After unpacking the product, 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. Failure to identify damage before installation could lead to rejection of any claim. 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 Federal Signal Customer Support at 1-800-264-3578, 7 a.m. to 5 p.m., Monday through Friday (CT). Disposal of all shipping materials must be carried out in accordance with national and local codes and standards.

**NOTICE**

**THREAD DAMAGE AND GALLING:** To prevent thread damage and galling, anti-seize lubricant must be used on all stainless steel fasteners.

**Table 1 Kit contents**

Qty.	Description	Part Number
1	Power Harness	1461816
1	Cable, RS485	1751357-02
1	Cable, Board-to-Board	17500009-36
1	Shroud, Front, Driver	862402793
1	Shroud, Front, Passenger	862402794
1	Bracket, Inner, Driver Side	862402795
1	Bracket, Inner, Passenger Side	862402796
1	Bracket, Outer, Driver Side	862402797
1	Bracket, Outer, Passenger Side	862402798
4	Screw, 1/4"-20 Phillips Pan Head, Black	7000547-08
4	Lockwasher, 1/4" External Tooth	7075078
1	Trim Seal	77700500-56
1	Fuse Kit	862006-01

**Mounting the Front ILS**

**⚠ 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.

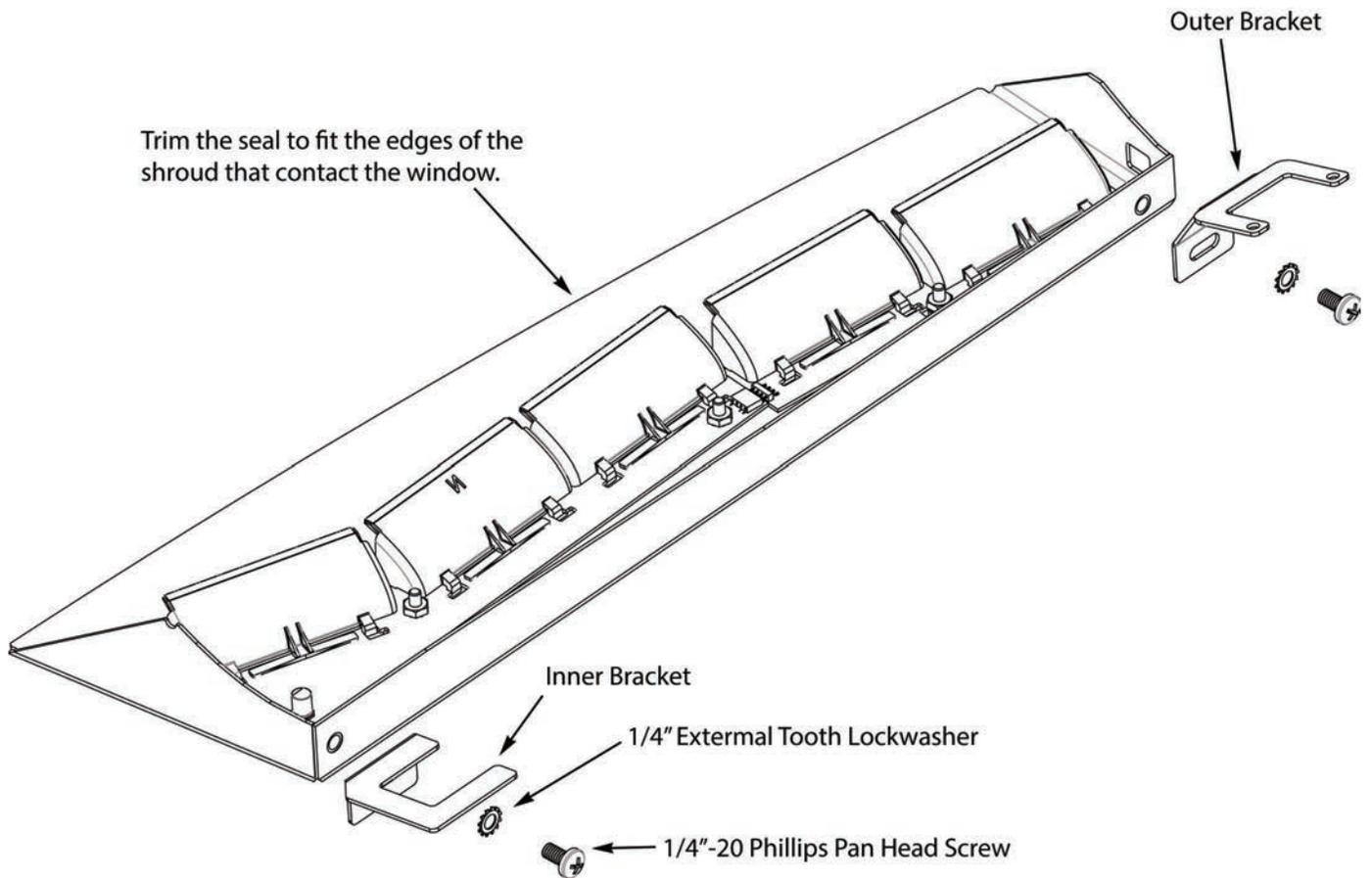
**NOTICE**

**DRILLING PRECAUTIONS:** Before drilling holes, check the area into which you plan to drill to ensure 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.

**IMPORTANT:** Plan all cable routing before completing the installation. For wiring instructions, refer to instruction sheet 25500021.

1. Install the trim seal on the edges of the shroud that contact the windshield. Cut the strip to fit. See Figure 1.
2. Loosely attach the brackets to the shroud with the 1/4"-20 screws and external-tooth lockwashers.
3. Loosen or remove the visor mounts as necessary and slide the brackets between the mounts and headliner.
4. Ensure that the shroud is tight against the windshield. The trim seals may require trimming. In some cases the bulb is removed entirely, leaving just the edge trim. Tighten the hardware.
5. Repeat Steps 1 through 4 for the other side.

Figure 1 Passenger side front ILS



**⚠ WARNING**

**LIGHT HAZARD:** To be an effective warning device, an emergency warning system produces bright light that can be hazardous to your eyesight when viewed at a close range. Do not stare directly into the lights at a close range or permanent damage to your eyesight may occur.

**⚠ WARNING**

**SOUND HAZARD:** All effective sirens and horns produce loud sounds (120 dB) that may cause permanent hearing loss. Always minimize your exposure to the sound of the siren and horn and wear hearing protection. Do not sound the siren or horn indoors or in enclosed areas where you and others will be exposed to the sound.

6. Test the vehicle and the emergency warning system for proper operation.

## **Getting Technical Support**

For technical support, please contact:

Federal Signal Corporation

Service Department

Phone: 1-800-433-9132

Email: [empserviceinfo@fedsig.com](mailto: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](http://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](mailto: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.



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[www.fedsig.com](http://www.fedsig.com)

Customer Support

Police/Fire-EMS: 800-264-3578 • +1 708 534-3400

Work Truck: 800-824-0254 • +1 708 534-3400

Technical Support: 800-433-9132 • +1 708 534-3400

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