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Safety Messages for Installers of Warning Light Equipment

▲ WARNING

People's lives depend on your safe installation of our products. It is important to read, understand and follow all instructions shipped with the products. 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 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.
- Do not stare directly into the lights at a close range, or permanent damage to your eyesight may occur.
- File these instructions in a safe place and refer to them when maintaining and/or reinstalling the product.

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

Introduction

This publication has instructions for using the MPSP12U-FRD23DTL and MPSP12U-FRD23DTL2 Mounting Kits to mount MicroPulse® MPS12U light heads to the taillight brackets of the Ford F-150 (P702).

NOTE: For electrical installation instructions, refer to the installation and maintenance instructions packed with the light head.

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 the damage. Failure to identify damage before installation could lead to the rejection of any claim. Carefully check all envelopes, shipping labels, and tags before removing or destroying them. Ensure that the parts listed 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).

Table 1 MPSP12U-FRD23DTL Kit Contents

Qty.	Description	Part No.
1	Bracket, MPS, Tailgate, F-150, Driver Side	861304379A-DS
1	Bracket, MPS, Tailgate, F-150, Passenger Side	861304379A-PS
4	#6-32 Keps® Nut, Stainless Steel	7058A046
4	#6-32 Phillips® Screw, Stainless Steel	7000491A-08

Table 2 MPSM12U-FRD23DTL2 Kit Contents

Qty.	Description	Part No.
1	Bracket, MPS, Tailgate, F-150, Driver Side	861304382A-DS
1	Bracket, MPS, Tailgate, F-150, Passenger Side	861304382A-PS
8	#6-32 Keps® Nut, Stainless Steel	7058A046
8	#6-32 Phillips® Screw, Stainless Steel	7000491A-08

⚠ WARNING

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 or death.

NOTICE

DRILLING PRECAUTIONS: When drilling holes, check the area you are drilling into to ensure that you do not damage vehicle components. All drilled holes should be deburred, 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.

Installing the Brackets

Two brackets are to be installed on each side of the vehicle.

To install the brackets:

1. Remove the top Torx® screw and the top rear lamp assembly screw shown in Figure 1.

Figure 1 Screws to be removed



Mounting MPSM12U-FRD23DTL and MPSM12U-FRD23DTL2 Brackets to the Ford® F-150®

2. Assemble the light head onto the bracket with the supplied #6 nuts and screws. Route the power cable through the rectangular cutout on the side bend of the bracket as shown in Figure 2 to avoid pinching the cable with the tailgate.

Figure 2 Routing Cable



3. Add the supplied rubber edge trim to the curved edge of the bracket that meets the outer profile of the truck.
4. Line up the hole at the top of the bracket with the Torx® screw hole, and the bottom bracket hole with the rear lamp assembly hole as shown in Figure 3.

Figure 3 Hole Alignment



5. Reinstall the Torx® screw and then reinstall the top rear lamp assembly screw by torquing to 48 in-lb.
6. Repeat steps 1-5 for the other bracket. See Figure 4 for completed installation.

Figure 4 Completed Installation



7. Complete the wiring according to the instructions supplied with the light heads.

⚠ 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.*

8. Test the lights for proper operation.

Getting Technical Support

For technical support, please contact:

Federal Signal Corporation
Service Department
Phone: 1-800-433-9132
Email: empsserviceinfo@fedsig.com



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University Park, Illinois 60484-3167

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