

25500919 Rev B0 0125

## **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 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.
- 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.
- When drilling into a vehicle structure, ensure that both sides of the surface are clear of anything that could be damaged.
- To be an effective warning device, this product produces bright light that can be hazardous to your eyesight when viewed at close range. Do not stare directly into this lighting product at close range, or permanent damage to your eyesight may occur.
- Frequently inspect the light system to ensure that it is operating properly and that it is securely attached to the vehicle.
- Refer to the instruction sheets included with related products for additional precautions and information.
- 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.

### **Overview**

This publication has instructions for using the MPSM3U-RAM24DTL and MPSM3U-RAM24DTL2 Mounting Kits to mount MicroPulse® MPS3U light heads to the taillight brackets of the RAM® (DT).

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

### **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 or 2 on page 2 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 MPSM3U-RAM24DTL Kit Contents**

| Qty. | Description                                        | Part Number |
|------|----------------------------------------------------|-------------|
| 1    | Bracket, MicroPulse, Tailgate, RAM®, Driver Side   | 861304616   |
| 1    | Bracket, MicroPulse, Tailgate, RAM, Passenger Side | 861304615   |
| 4    | #6-32 Keps® Nut, Stainless Steel                   | 7058A046    |
| 4    | #6-32 Phillips® Screw, Stainless Steel             | 7000491-08  |
| 1    | Rubber Trim                                        | 205003-01   |
| 1    | 1.68 x 3.67 in Rubber Pad                          | 2881407     |

**Table 2 MPSM3U-RAM24DTL2 Kit Contents**

| Qty. | Description                                        | Part Number |
|------|----------------------------------------------------|-------------|
| 1    | Bracket, MicroPulse, Tailgate, RAM, Driver Side    | 861304614   |
| 1    | Bracket, MicroPulse, Tailgate, RAM, Passenger Side | 861304613   |
| 8    | #6-32 Keps Nut, Stainless Steel                    | 7058A046    |
| 8    | #6-32 Phillips Screw, Stainless Steel              | 7000491-08  |
| 1    | Rubber Trim                                        | 205003-01   |
| 1    | 1.68 x 3.67 in Rubber Pad                          | 2881407     |

### Installing the Lights

Two brackets are to be installed, one on either side of the vehicle.

**IMPORTANT:** Plan all cable routing before installation.

#### **⚠ 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.

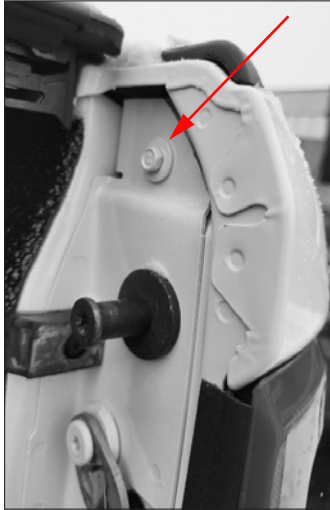
#### **NOTICE**

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

To install the light heads:

1. Remove the top hex head screw (Figure 1) and the bottom button washer head screw (Figure 2).

**Figure 1 Top Hex Head Screw**



**Figure 2 Bottom Button Washer Head Screw**



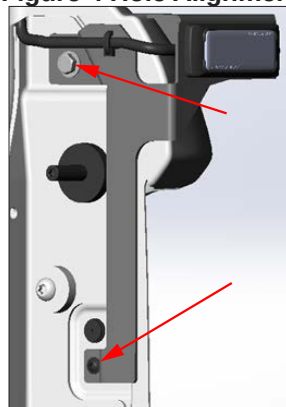
2. Assemble the light head onto the bracket with the supplied #6 nuts and screws. Route the power cable through the side of the bracket (Figure 3) and use a cable tie to secure the cable between the small rectangular cutouts on the side of the bracket.

**Figure 3 Routing the Power Cable**



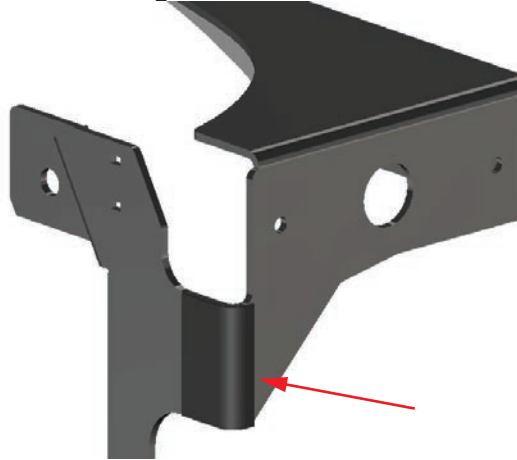
3. Add the supplied rubber edge trim to the curved edge of the bracket that meets the outer profile of the truck.
4. Line up the hole at the top of the bracket with the hex head screw hole and the bottom bracket hole with the button washer head screw hole. Secure the screws but be careful to not overtighten. See Figure 4.

**Figure 4 Hole Alignment**



5. Check the clearance between the tailgate and bracket. Due to gap variation with the tailgate and bed sides, some brackets will need to have a portion of the rubber adhesive pad added to the side of the bracket to prevent rubbing damage.

**Figure 5 Rubber Pad**



6. Repeat steps 1-5 for the other bracket.
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 and Service**

For technical support and service, please contact:

Service Department  
Federal Signal Corporation  
Phone: 1-800-433-9132  
Email: [empserviceinfo@fedsig.com](mailto:empserviceinfo@fedsig.com)



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