

25500310 Rev. A0 0416

Safety Message to 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 this product and the related add-on products. In addition, 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.
- 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, be sure 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.
- You should 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.

Preparing the Mounting Surface

Refer to the installation and maintenance instructions included with the lightbar for electrical connections. Plan all cable routings before the installation. It is the installer's responsibility to ensure that mounting surface can support the mass of the lightbar.

Kit Description

These kits are intended to mount select Federal Signal lightbars to flat surfaces. The number of brackets and amount of hardware will vary as described in Table 1 Kit Contents. This variation is to account for various length lightbars.

Unpacking the Kit

After unpacking the kit, inspect it for damage that may have occurred in transit. If the contents have been damaged, do not install the kit. 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 Kit Contents are included in the package.

Table 1 Kit contents

	8653178-1	8653178-2	8653178-3
Description	QTY	QTY	QTY
Bolt, Carriage, 5/16-18 x 1"	4	8	12
Bolt, Carriage, 3/8-16 x 3.5"	2	4	6
Washer, Flat, 5/16"	4	8	12
Washer, Lock, 3/8", Split	2	4	6
Nut, Hex, 3/8-16	2	4	6
Nut, Stop, Elastic, 5/16-18	4	8	12
Bracket, Mounting	1	2	3

⚠ WARNING

HEAVY OBJECT: Use lifting aids and proper lifting techniques when removing or replacing this product. Failure to follow this warning may cause personal injury.

NOTICE

PROPER SURFACE CLEANING: Clean and lightly oil the mounting bolts. Torque the 3/8" hardware to 150-175 in-lbs. Torque the 5/16-inch hardware to 120-132 in-lbs.

Single Bracket Kit (8653178-1)

To mount the single bracket kit, do the following:

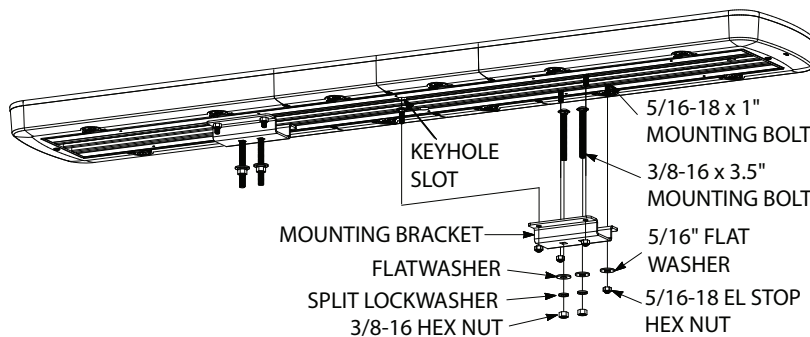
1. Select suitable flat mounting surface.
2. Using the bracket as a template, mark two drill-position marks for the 3/8-inch carriage bolts.

NOTICE

DRILLING PRECAUTIONS: When drilling holes check the area you are drilling into to be sure you do not damage vehicle components while drilling. All drilled holes should be de-burred 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.

3. Drill a 13/32-inch hole at the two drill-position marks.
4. Attach bracket to bottom of the lightbar as shown in Figure 1.
5. Attach lightbar to mounting surface using the 3/8-inch hardware.

Figure 1 Mounting Bracket



Double Bracket Kit (8653178-2)

To mount the double bracket kit, do the following:

1. Select suitable mounting surface.
2. Center lightbar on flat mounting surface.
3. Using the bracket as a template, mark four drill-position marks for the 3/8-inch carriage bolts. Ensure that the outermost drill-position is no more than 14-inches from inward from the end of the light bar. See Figure 2.

NOTICE

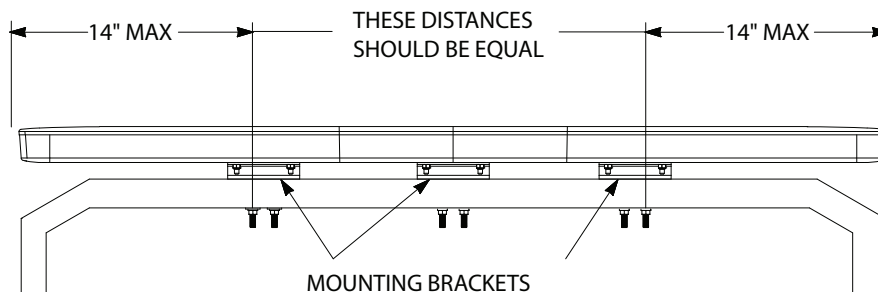
DRILLING PRECAUTIONS: When drilling holes check the area you are drilling into to be sure you do not damage vehicle components while drilling. All drilled holes should be de-burred and all sharp edges should be smoothed. All wire routings going through drilled holes should be protected by a grommet or convolute/split loom tubing.

4. Drill a 13/32-inch hole at the four drill-position marks.
5. Attach brackets to bottom of the lightbar as shown in Figure 1. Use care if turning the lightbar over to avoid scratching the domes.

NOTE: Some lightbars may have 5/16-inch carriage bolts pre-installed.

6. Attach lightbar to mounting surface using the 3/8-inch hardware.

Figure 2 Lightbar centered on the vehicle roof



Triple Bracket Kit (8653178-3)

To mount the triple bracket kit, do the following:

1. Select suitable mounting surface.
2. Center lightbar on flat mounting surface.
3. Using the bracket as a template, mark six drill-position marks for the 3/8-inch carriage bolts. Ensure that the outermost drill-position is no more than 14-inches from inward from the end of the light bar. See Figure 2. Ensure third bracket is centered on lightbar.

NOTICE

DRILLING PRECAUTIONS: When drilling holes check the area you are drilling into to be sure you do not damage vehicle components while drilling. All drilled holes should be de-burred 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.

Flat Surface Mounting Kit

4. Drill a 13/32-inch hole at the six drill-position marks.
5. Attach brackets to bottom of the lightbar as shown in Figure 1. Use care if turning the lightbar over to avoid scratching the domes.
6. Attach lightbar to mounting surface using the 3/8-inch hardware.

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 units 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

Ordering Replacement Parts

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



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Phone: 708-534-3400 • 800-264-3578 • Fax: 800-682-8022
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