



**FEDERAL SIGNAL**  
Safety and Security Systems

# Model CNSM-UM Mounting Kit For the CN SignalMaster

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## *Installation Instructions*

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## 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.



### **FEDERAL SIGNAL** Safety and Security Systems

2645 Federal Signal Drive  
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### **Safety Messages for Installers of Warning Lights**

#### **⚠ 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 this light, you must have a good understanding of automotive electrical procedures and systems, along with proficiency in the installation and use of safety warning equipment.
- The effectiveness of an interior mounted warning light depends on the clarity, the tinting, and the angle of the glass it is being placed behind. Tinting, dirt, and steeply angled glass reduce the light output of the warning light. This may reduce the effectiveness of the light as a warning signal. If your vehicle has dirty, tinted, or steeply angled glass, use extra caution when driving your vehicle or blocking the right of way with your vehicle.
- When drilling into a vehicle structure, ensure that both sides of the surface are clear of anything that could be damaged.
- For the light to function properly, a separate ground connection must be made. If practical, it should be connected to the negative battery terminal.
- If a vehicle seat is temporarily removed, verify with the vehicle manufacturer if the seat needs to be recalibrated for proper airbag deployment.
- Locate the light control so the VEHICLE and CONTROLS can be operated safely under all driving conditions.
- Do not attempt to activate or deactivate the light control while driving in a hazardous situation.
- Frequently inspect the light to ensure that it is operating properly and that it is securely attached to the vehicle.
- 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.

### Product Overview

The Model CNSM-UM mounting kit is designed for mounting a Federal Signal CN SignalMaster™ directional light in various applications. It allows the CN SignalMaster to swivel up and down for adjustment on non-level surfaces.

**NOTE:** For electrical installation instructions, refer to the Installation and Maintenance Instructions included with the lightbar.

### Unpacking the Kit

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. 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 Kit Contents**

Qty.	Description	Part Number
8	1/2-inch Stainless Steel 1/4-20 Carriage Bolt	7004A020-08
8	1/4-20 Stainless Steel Keps® Nut	7058050
4	1/4-inch Type B HWH, 3/4-inch Long Black Screw	7011183-12
6	Type B 6-Lobe Drive #10 Pan Head 3/4-inch Long Stainless Steel Screw	7011246-06
4	1/4-inch Stainless Steel External Tooth Lockwasher	7075092
8	5/16-inch Stainless Steel Internal Tooth Lockwasher	7075A018
2	Hinge Bracket	857300154
2	Center Bracket	857300156
2	Mounting Bracket	857300157

### Mounting the SignalMaster

#### **⚠ WARNING**

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

#### **⚠ 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 PRECAUTION:** *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.*

For maximum coverage and effectiveness, the light assembly should be mounted in a horizontal orientation. The CN SignalMaster is mounted on the vehicle using the supplied bracket(s) and screws, or bracket(s) and nuts (depending on the model). Determine the mounting position appropriate for installation of the light bar.

**NOTE:** The brackets can be assembled in several different ways. Prior to installation, loosely assemble the hinges to determine the optimal configuration for your mounting location. The assembly sequence may vary depending on access for the fasteners for your selected configuration.

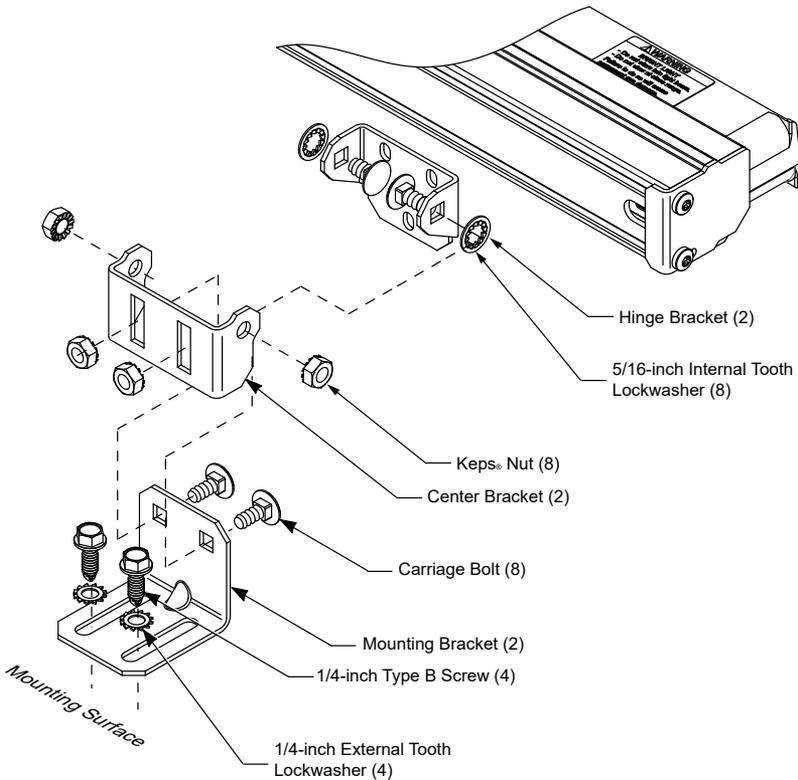
To mount the lights:

1. Determine the required left to right positioning of the brackets on the CN SignalMaster.
2. Secure the hinge brackets to the CN SignalMaster using the #10 pan head six-lobe drive, type B, 3/8-inch long screws as shown in Figure 1 on page 7. Alternatively, if the installation

requires rotation of the hinges, use the mounting brackets with the 1/4-inch nuts supplied with the CN SignalMaster.

3. Assemble the center brackets to the hinge brackets using 1/4-20 carriage bolts, lockwashers, and nuts as shown in Figure 1. The 5/16-inch internal-tooth lockwasher goes between the brackets on each side as shown. Do not tighten the nuts at this time.

**Figure 1 Mounting bracket assembled to center bracket**



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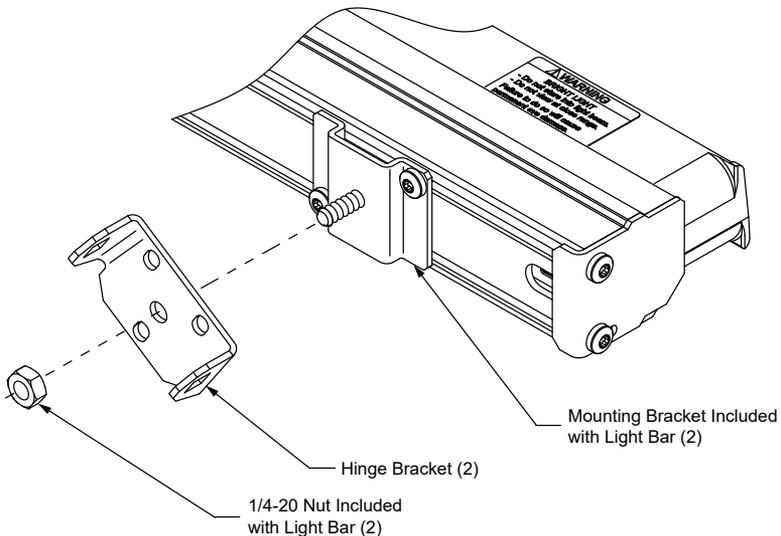
4. Assemble the mounting brackets to the center brackets using the 1/4-20 carriage bolts and nuts as shown in Figure 2. Do not tighten the screws at this time.
5. Use the assembled unit as a template and scribe mounting hole position marks on the mounting surface.

## Mounting the SignalMaster

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6. Drill a 0.209-inch (no. 4 drill) diameter mounting holes at the scribed position marks.
7. If required, locate and drill an appropriate hole for routing the cables.
8. Secure the assembled unit to the mounting surface with the 1/4-inch Type B, HWH, 3/4-inch long screws.
9. Adjust the height and tilt of the rear deck CN SignalMaster as required and secure all fasteners.
10. Connect the CN SignalMaster as described in the instructions provided with the lightbar.

**Figure 2 Mounting bracket assembled to hinge bracket**



### **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)  
[www.fedsig.com](http://www.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 Drive  
University Park, IL 60484-3167

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