

**INSTALLATION INSTRUCTIONS
FOR
MODEL 454219 HIGHLIGHTER™ ROOF MOUNT BAR ADAPTER BRACKETS**

SAFETY MESSAGE TO INSTALLERS AND USERS



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. In addition, listed below are some other important safety instructions and precautions you should follow:

- To properly install this kit: you must have a good understanding of automotive electrical procedures and systems, along with proficiency in the installation and use of safety warning equipment.
- When drilling into a vehicle structure, ensure that both sides are clear of anything that could be damaged.
- Refer to instruction sheet packed with light system for proper electrical connections.
- Refer to the instruction sheet packed with the mounting bar for proper mounting procedure.
- Remove all burrs from drilled holes.
- You should frequently inspect the light system and mounting to ensure that they are securely attached to the mounting surface.
- 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 to you or others.

I. GENERAL.

The Model 454219 roof mount bar adapter brackets enable a HighLighter Solaris LED to be

mounted to a roof mount bar, 210960. It will also allow the HighLighter Solaris LED to replace Halogen or Strobe HighLighters where the center mounting option has been used, without further modification to the mounting surface.

II. UNPACKING.

After unpacking the kit, carefully check that the parts shown in the kit contents list are contained in the packing bag.

III. KIT CONTENTS LIST.

Qty.	Description	Part No.
2	Bracket, roof mount bar adapter	8560105
2	Carriage bolt, 3/8-16 2"	7004A024-24
2	Nut 3/8-16	7059A063
2	Lockwasher, split 3/8"	7074A046
2	Washer flat, 3/8"	7072A035
2	Carriage bolt, 1/4-20 1/2"	7004A020-08
2	Nut, nylon locking 1/4-20	7058055
2	Washer flat, 1/4"	7072A024

IV. INSTALLATION.

A. Center Mount Replacement.

NOTE

This kit enables a HighLighter Solaris LED to replace an older halogen or strobe model where the two center mounting bolt features have been used. If this is the case, install the plates as shown in figure 1.

1. Place a 3/8-16 carriage bolt in the square opening. The head of the carriage bolt is to be captured between the plate and the bottom of the HighLighter.

NOTE

There will be a plastic tab on the base to break off to provide clearance for the carriage bolt head.

2. Attach each of the brackets to the bottom of the HighLighter as shown in figure 1. Use the

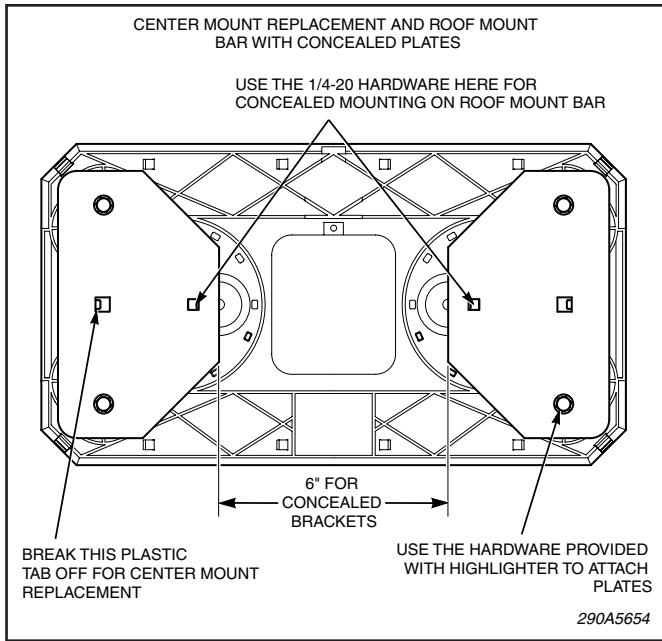


Figure 1.

hardware supplied with the HighLighter Solaris LED.

NOTE

The holes left from the old installation may need to be enlarged to 3/8”.

3. Place the HighLighter with the carriage bolts and plates installed onto the mounting surface. Pass the carriage bolts through the holes and secure using the washers and nuts provided.

4. Continue installing the lightbar according to its included instruction sheet.

B. Installation onto Roof Mount Bar.

NOTE

The brackets may be installed in two orientations. The first conceals the brackets, but requires some measuring. The second leaves a small portion of the brackets exposed, but requires no measurement.

1. Concealed Brackets.

a. Determine where the light is to be mounted on the roof mount bar. Mark the aluminum extrusion at the center of the HighLighter for reference if needed.

b. Use the mark placed in step 1, Place two marks, one 3 inches to the left and the other 3 inches to the right.

c. Slide the two 1/4-20 carriage bolts into the channel on the top of the roof mount bar. Using the provided 1/4-20 locking nut and flat washers, secure the plated with their edges located at each of the marks. See figure 1.

d. Secure the lightbar to the mounting plates using the self tapping screws provided with the HighLighter.

e. Continue installing the lightbar according to its included instruction sheet.

2. Exposed Brackets.

a. Secure the brackets to the HighLighter as shown in figure 2 for the exposed brackets. Use the hardware provided with the HighLighter.

b. Loosely install the 1/4-20 carriage bolts onto the brackets. Use the provided nuts and washers. The bolt head should be at the bottom.

c. Slide the HighLighter onto the roof mount bar to the desired location and tighten the locking nuts. The carriage bolt heads will fit into the top screw channel on the extrusion.

d. Continue installing the lightbar and roof mount bar according to the included instruction sheets.

Copyright 2006 Federal Signal Corporation

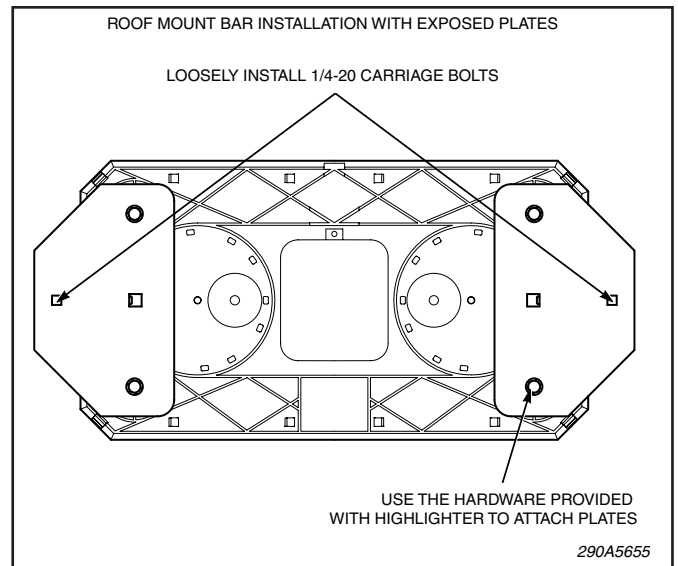


Figure 2.