

2562679A REV. A 212

## Safety Message to Installers of Federal Signal Products

### **⚠ WARNING**

People's lives depend on your proper 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 this equipment, 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. Failure to observe this warning will reduce the effectiveness of the airbag or potentially dislodge the equipment, causing serious injury to you or others.
- 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.
- If a vehicle seat is 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. Remove all burrs from drilled holes. To prevent electrical shorts, grommet all drilled holes through which wiring is run.
- Never attempt to install aftermarket equipment that connects to the vehicle wiring without reviewing a vehicle wiring diagram available from the vehicle manufacturer. Insure that your installation will not effect vehicle operation or mandated safety functions or circuits. Always check the vehicle for proper operation after installation.
- Locate the controls so the VEHICLE and CONTROLS can be operated safely under all driving conditions.
- The flasher should be frequently inspected 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 installing and/or reinstalling the product.

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

## Overview of the Model FHLP-CP

The Model FHLP-CP Headlight Flasher is a solid-state plug-in flasher designed for installation in 2012 and newer models of the Police Package Chevrolet Caprice. The plug-in flasher operates from +9 Vdc to 16 Vdc with a 55 W load output on each of two outputs. It has built-in shutdown protection against short circuit, loss of ground, over-temperature, and reverse polarity. Along with the PowerPulse™ flash pattern, the Model FHLP-CP features High-Beam Override. When the high-beam switch is activated, the High-Beam Override (HBOR) function of the flasher interrupts the flashing sequence to allow use of the high beams. The HBOR function is automatically disabled when the high-beam switch is de-activated, allowing the headlight flasher to resume operation.

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**IMPORTANT:** ***AUTHORIZED USE—Flashing Headlight and Tail light systems are intended for approved vehicles only. The user of this system is responsible to ensure compliance to any Federal, State or Municipal regulations that may apply.***

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**Table 1** Product specifications

Operational Voltage:	+9 Vdc to 16 Vdc
Output Current:	9.5 A
Standby Current:	Less than 15 mA
Flash Pattern:	PowerPulse alternating at 180 FPM
Electrical outputs	Two 55-watt outputs

## Mounting the Flasher

The Model FHLP-CP Headlight Flasher is designed to be water resistant. However, to ensure years of trouble free operation, it should be mounted in a location that is protected from direct water spray and high temperatures.

Required for mounting the flasher are installer-supplied 3/16" rivets or #8 nuts, bolts and lock washers,

To mount the flasher:

1. See Figure 1 on page 3. Locate a suitable mounting location for the flasher on the radiator support near the headlight wiring harness. The flasher is oriented on the bracket with the wires exiting at the lower edge of the bracket.
2. Use the bracket as a template to mark the center of the mounting holes on the radiator support.

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### **NOTICE**

**DRILLING PRECAUTION—When drilling holes, check the area into which you are drilling to be sure you do not damage vehicle components. All drilled holes should be de-burred and smoothed. All wire routing going through drilled holes should be protected by a grommet or convolute/split loom tubing.**

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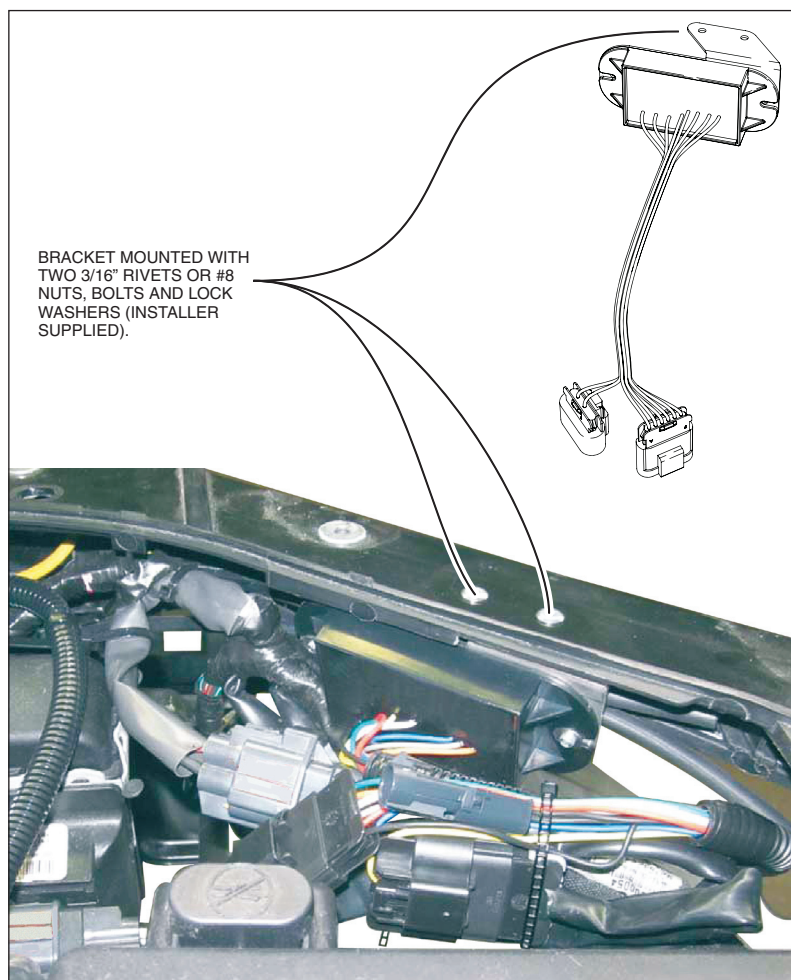
3. Drill two holes at the drill-position marks.
4. Secure the flasher to the radiator support with the installer supplied-mounting hardware.

## Connecting the Flasher Wire Harness

To connect the flasher to the head-lamp wiring harness:

1. Carefully route the two-wire and six-wire harnesses to head-lamp wiring harness. Make sure the harnesses will not interfere with any moving vehicle components and will not get damaged in field operation.
2. Disconnect the wire harness between the head lamps and connect it to the matching flasher connectors.
3. After you complete the wiring, test the light system for proper operation.

**Figure 1** Mounting location on radiator support



## Limited Warranty

Federal Signal warrants the Model FHLP-CP Headlight Flasher for five years from the date of purchase to the original purchaser against any manufacturer defects or workmanship. This warranty applies only to the units installed according to the manufacturer's installation instructions and operated within the specifications of the unit. Federal Signal's obligation under this warranty is limited to repairing or exchanging the unit. Exchanging units under this warranty is as follows: 100 percent of purchase price for the first two years, 75 percent of the purchase price for the third year, 50 percent of the purchase price for the fourth year, and 25 percent of the purchase price for the fifth year. Warranty is void if the unit was installed incorrectly or maliciously damaged. All warranty claims must be accompanied by dated proof of purchase. Federal Signal retains the right to be the sole mediator of what constitutes defects in performance or manufacturing.

## Obtaining Technical Support and Service

For technical support and service, please contact:

Federal Signal Corporation  
Service Department  
Phone: 1-800-433-9132  
Fax: 1-800-343-9706  
Email: [empserviceinfo@fedsig.com](mailto:empserviceinfo@fedsig.com)

## **Returning a Product to Federal Signal**

Before returning a product to Federal Signal, call 800-264-3578, 800-433-9132, or 800-824-0254 to obtain a Returned Merchandise Authorization number (RMA number). To expedite the process please be prepared with the following information:

- Your Federal Signal customer or account number.
- The purchase order number under which the items were purchased.
- The shipping method.
- The model or part number of the product being returned.
- The quantity of products being returned.
- Drop ship information as needed.
- Any estimate required.

When you receive your RMA Number:

- Write the RMA number on the outside of the box of returned items.
- Reference the RMA number on your paperwork inside of the box.
- Write the RMA number down, so that you can easily check on status of the returned equipment.

Send all material with the issued RMA Number to:

Federal Signal Corporation  
Public Safety Systems  
2645 Federal Signal Drive  
University Park, IL 60484-3167  
Attn: Service Department  
RMA: # \_\_\_\_\_

800-433-9132  
800-343-9706 (fax)  
[www.fedsig.com](http://www.fedsig.com)