

**INSTRUCTION SHEET  
FOR  
CALTRANS PAR46 LED TRACTOR LIGHT MODULES**

**SAFETY MESSAGE TO INSTALLERS**

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

- **To properly install this warning 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.**
- **When drilling into a vehicle structure, be sure that both sides of the surface are clear of anything that could be damaged.**
- **DO NOT install equipment or route wiring or cord in the deployment path of an air bag.**
- **You should frequently inspect the light to ensure that it is operating properly and securely attached.**
- **This product contains high intensity LED devices. To prevent eye damage, DO NOT stare into the light beam at close range.**
- **Locate light control so the vehicle and light can be safely operated in all driving conditions.**
- **Do not attempt to activate the light while driving in a hazardous situation.**
- **Place all warning labels provided, in a visible location on the equipment.**
- **File this instruction sheet in a safe place and refer to it 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 Federal Signal PAR46 LED modules are sealed, low current devices designed for warning purposes. Federal Signal Corporation LED warning light modules are self-flashing units for auxiliary emergency warning. These warning lights operate with their own internal flasher. They can be powered by 12-24 VDC.

**II. UNPACKING.**

After unpacking the part, inspect it for damage that may have occurred in transit. If it has been damaged, 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.

**III. INSTALLATION.**

**NOTE**

Read all instructions and plan all wiring and cable routing before performing any installation. Use grommets, wire ties, looms, and cable mounts (installer supplied) as needed to secure the wiring and to prevent chafing of the wiring.

**⚠ CAUTION**

Before drilling or cutting holes in ANY part of a vehicle, be sure that both sides of the mounting surface are clear of parts that could be damaged; such as brake lines, electrical wiring or other vital parts.

A. Determine the mounting location for the light and user-supplied control switch.

B. Drill a 1/2" hole at the desired mounting location for the mounting stud. Use the supplied lockwasher and nut to secure the lamp housing to the vehicle.

C. Route an 18 GA wire from the power source to the switch location. Install an user-supplied fuse and fuseholder as close to the power source as possible. Each pair of lights should have a 2-ampere fuse. Two pairs should have a 4-ampere fuse.

D. Route an 18 GA wire from the switch to the location of the light.

E. Route an 18 GA wire from light installation area to the nearest convenient chassis ground. The battery is recommended.

F. The warning light's wires function as follows:

Black	Ground (-)
White	Power for internal flasher (+)

G. Using installer-supplied weather resistant terminals, connect the black wire to ground. The white

wire is connected to positive (+) 12-24 VDC via an installer-supplied switch rated for 1-ampere for each light on that circuit.

H. Check the wiring and test for proper operation

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