

**INSTRUCTION SHEET FOR  
MODEL 760004 LED PAR 36 LIGHT HEAD**

**SAFETY MESSAGE TO INSTALLERS AND USERS**

**⚠ 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 light, you must have a good understanding of automotive 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 air bag.
- When drilling into a vehicle structure, be sure that both sides of the surface are clear of anything that could be damaged.
- In order for the light to function properly, a separate ground connection must be made. If practical, it should be connected to the negative battery terminal. At a minimum, it may be attached to a solid metal body or chassis part that will provide an effective ground path as long as the light system is to be used.
- Locate light control so the **VEHICLE** and **CONTROL** can be operated safely under all driving conditions.
- Do not attempt to activate or deactivate light control while driving in a hazardous situation.
- You should frequently inspect the light to ensure that it is operating properly and that it is securely attached to the vehicle.
- This product contains high intensity LED devices. To prevent permanent eye damage, **DO NOT** stare into the light beam at close range.
- The light 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 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.

**A. GENERAL.**

The Model 760004 is an LED light head designed for use with all Federal Signal switch controllers. This light head is designed for use in place of an existing PAR 36 light found on most police motorcycles. The housing is comprised of a cast and highly polished aluminum profile with a polycarbonate extruded lens. The unit is supplied with stainless steel brackets and hardware for mounting in a PAR 36 light housing.

**B. INSTALLATION.**

**⚠ WARNING**

This product is intended for supplemental warning and for use in conjunction with an approved primary warning light system. Consult local codes and regulations to determine if the power supply/ light head combination complies with the horizontal or vertical mount positioning desired in your application.

**⚠ WARNING**

When installing equipment inside air bag equipped vehicles, the installer **MUST** ensure that the equipment is installed **ONLY** in areas recommended by the vehicle manufacturer. Failure to observe this warning will reduce the effectiveness of the air bag, damage the air bag, or potentially damage or dislodge the equipment, causing serious injury or death to you or others.

**NOTE**

For adequate condensate drainage, the unit **MUST** be mounted with the drain holes facing down (see figure 1).

1. Remove the existing PAR 36 light head from the housing. Refer to the manufacturer's instructions for proper techniques.
2. See figure 2. Attach the supplied brackets in the slide area as shown. Do not tighten these screws at this time.
3. Route the cable from the light head through the PAR 36 housing before securing it to the housing.
4. Vertically align the orientation label with the arrow pointing down. Place the assembled light head onto the lip of the PAR 36 housing.
5. Tighten the screws which attach the brackets to the light head. The brackets will move and clamp the light head to the housing.
6. Finish routing the cable to the power connections. Ensure that the cable routing will not impair vehicle operation.

**CAUTION**

After prolonged operation, the unit dissipates heat and can cause burns. Do not hold the unit in your hands for extended periods of time. Do not touch the unit during, or shortly after, operation. Always allow the unit to cool before handling.

**C. ELECTRICAL SPECIFICATIONS AND FEATURES.**

The unit is intended to operate on a 12.8 VDC system. It includes a 3 conductor connecting cable housed in a black jacket. The 3

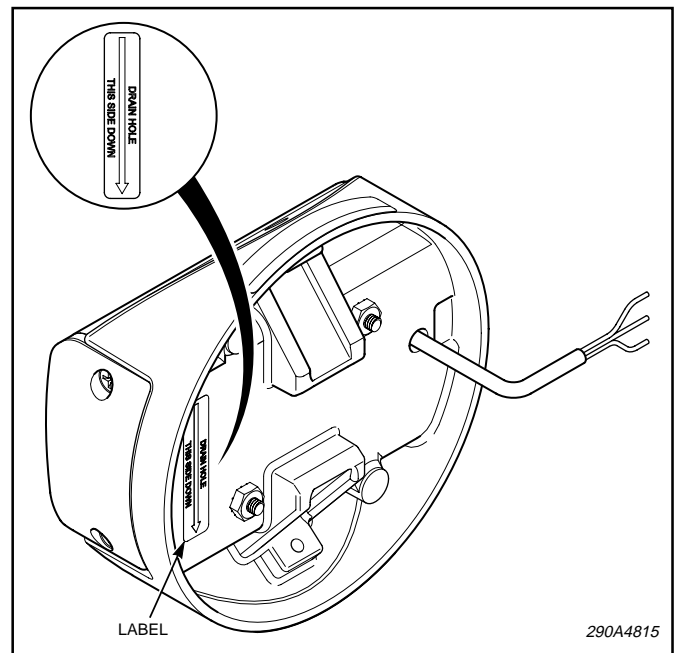


Figure 1.

conductors are: red (positive), black (negative) and green (switching). This unit is intended to work in conjunction with all Federal Signal switch controllers.

This unit features 8 flash patterns that are selected by applying the switching wire (green) to the ground wire (black). These wires are all within the black cable attached to the unit. The flash patterns are as follows:

1. Steady On
2. 120 FPM
3. 165 FPM
4. 240 FPM
5. 300 FPM
6. Combo 1:  
4 intervals @ 120 FPM  
10 intervals @ 300 FPM
7. Combo 2:  
2 intervals @ 120 FPM  
3 intervals @ 165 FPM  
6 intervals @ 240 FPM  
3 intervals @ 165 FPM  
2 intervals @ 120 FPM  
10 intervals @ 300 FPM
8. Combo 3:  
1 inactive interval @ 120 FPM  
2 intervals @ 120 FPM  
6 intervals @ 240 FPM  
14 intervals @ 480 FPM  
6 intervals @ 240 FPM  
2 intervals @ 120 FPM  
1 inactive interval @ 120 FPM

After the desired pattern has been selected, the green wire must be connected directly to the red power lead.

**NOTE**

When using an external flashing device, unit must be on pattern #1 - Steady On.

This unit is designed to return to the last flash pattern selected before it was de-energized. For example, if the unit is de-energized at the seventh flash pattern and then re-energized, the seventh flash pattern illuminates. However, there is a two-second delay for the unit to remember the last pattern. So, if the unit is energized and functioning on the third flash pattern and the unit is switched to the fourth flash pattern and de-energized *within* a two second time limit, the unit will return to the third flash pattern.

**SAFETY MESSAGE TO OPERATORS**



**WARNING**

**People’s lives depend on your safe use of our products.**

**Listed below are some important safety instructions and precautions you should follow:**

- **Although your warning system is operating properly, it may not be completely effective. People may not see or heed your warning signal. You must recognize this fact and continue driving cautiously.**
- **Also, situations may occur which obstruct your warning signal when natural or manmade objects are between your vehicle and others, such as: raising your hood or trunk lid. If these situations occur, be especially careful.**
- **This product contains high intensity LED devices. To prevent permanent eye damage, DO NOT stare into the light beam at close range.**
- **At the start of your shift, you should ensure that the light is securely attached and operating properly.**

**Failure to follow these safety precautions may result in property damage, serious injury, or death to you, to passengers, or to others.**

**RETAIN AND REFER TO THIS MESSAGE**

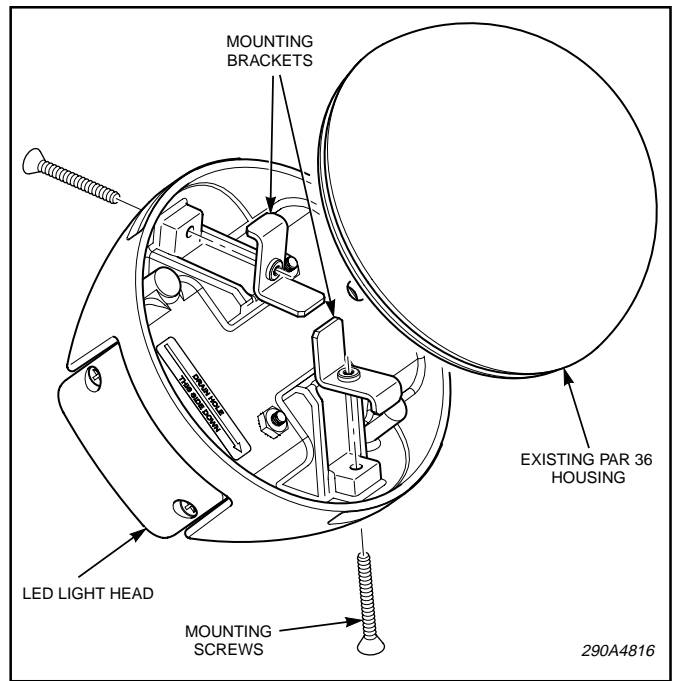


Figure 2.

**D. MAINTENANCE.**



**WARNING**

**Crazing (cracking) of lenses will cause reduced effectiveness of the light. Do not use cleaning agent (which will cause crazing) such as strong detergents, solvents, or petroleum products. If crazing of lenses does occur, reliability of light for emergency signaling purposes may be reduced until lenses are replaced.**

Ordinary cleaning of the plastic lenses can be accomplished by using mild soap and a soft rag. Should fine scratches or a haze appear on a lens, they can ordinarily be removed with a non-abrasive, high quality, one-step, automotive paste cleaner/wax and soft cloth.

Consult the factory regarding warranty repairs/replacement issues.

Manufactured by:  
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Emergency Products Group  
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