

**INSTRUCTION SHEET  
FOR  
MODEL 320773  
LED SIGNALMASTER™ LIGHT ASSEMBLY**

**SAFETY MESSAGE  
TO  
INSTALLERS AND OPERATORS**

**⚠ WARNING**

The lives of people depend on your proper installation and servicing of Federal products. It is important to read 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 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.**
- **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.**
- **This product contains high intensity LED devices. To prevent eye damage, DO NOT stare into the light beam at close range.**
- **You should 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 to you or others.**

**I. INSTALLATION.**

**⚠ WARNING**

**These lights are intended for SECONDARY warning only. They are NOT intended for use as a primary warning system.**

*A. LED SignalMaster Light Assemblies.*

Install the light assembly as described in the mounting kit instructions, and route the cable near the eventual location of the control unit.

**CAUTION**

Install the control unit in an adequately ventilated area. Never install near heater ducts.

*B. Control Unit.*

**NOTE**

Before selecting a mounting location for the control unit, it is necessary to plan wiring and cable routing.

The Model 320773 light assembly is designed to operate with Federal's Intelli-Flash™ flasher (Model 650200), or other equivalent low-side-drive flashers, to flash the LED modules on both ends of the light assembly. In addition to the flasher, a control unit (Federal's SMC56 is recommended) must be used for directional light control.

*C. Wiring.*

See figure 1. To connect the SignalMaster Model 320773 light assembly to the flasher (Model 650200) and control unit (Model SMC56), proceed as follows:

1. Using 16 AWG wire, connect the red wire in the light assembly's 9-conductor cable to the Y-harness' black wire.
2. Using 16 AWG wire, connect one of the flasher's red wires to one of the Y-harness' red wires.
3. Using 18 AWG wire, connect the white wire in the light assembly's 9-conductor cable to the flasher's green wire.
4. Using 18 AWG wire, connect the blue wire in the light assembly's 9-conductor cable to the flasher's orange wire.

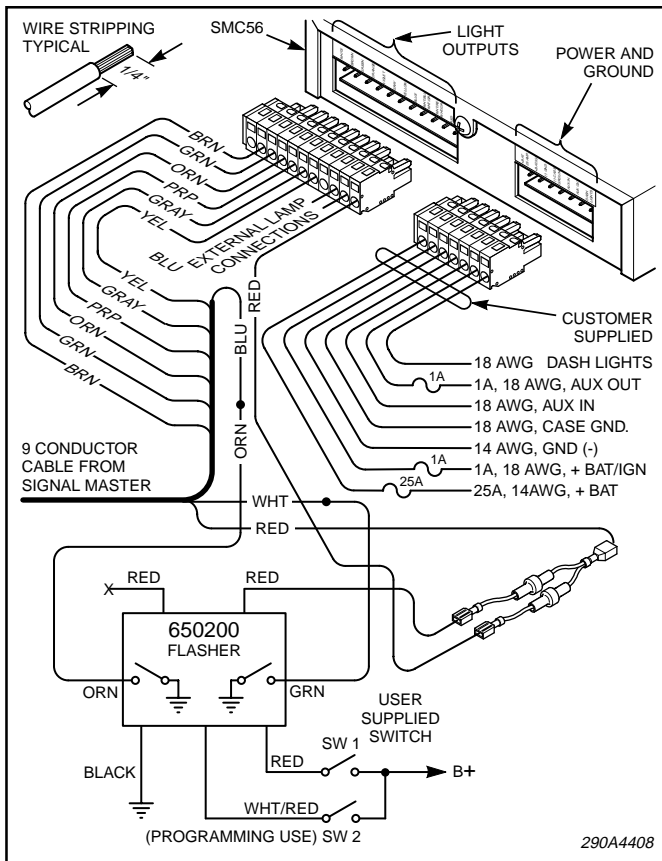


Figure 1.

5. Using 16 AWG wire, connect one of the flasher's red wires to one side of a user-supplied SPST switch. This switch is used to turn the flasher on and off.
6. Using 16 AWG wire, connect the flasher's black wire to the vehicle battery's negative (-) terminal.
7. Cut off the flasher's remaining red wire and properly insulate.
8. Using 16 AWG wire, connect the other Y-harness' red wire to the 11-position connector as shown in figure 1.
9. Complete the SMC56's wiring as described in the instructions supplied with the Model SMC56.

**CAUTION**

Before connecting to power (+12V), ensure that all connections are properly insulated.

10. Connect the other side of the user-supplied switch to the positive (+12V) battery terminal.
11. To set the desired flash patterns, refer to the programming instructions in the instructions packed with the Intelli-Flash flasher.

**II. MAINTENANCE.**

A. General.

**⚠ WARNING**

**Crazing (cracking) of lenses will cause reduced effectiveness of the light. Do not use cleaning agents (which will cause crazing) such as strong detergents, solvents, or petroleum products. If crazing of lenses does occur, reliability of light for emergency signalling 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 a soft cloth.

B. LED Module Replacement.

1. See figure 2. Remove and retain the two screws which secure the LED module assembly.
2. Disconnect the right angle connectors and remove the LED module assembly.
3. Observing polarity, connect the right angle connectors to the appropriate printed circuit board connectors.
4. Install the new LED module assembly using the previously removed screws.

**III. REPLACEMENT PARTS.**

Description	Part No.
LED Module Assy., Red (Clear Lens), 12V	8573229-01
LED Module Assy., Amber (Clear Lens), 12V	8573229-02
LED Module Assy., Blue (Clear Lens), 12V	8573229-03
LED Module Assembly, Red, 12V	8573229-04
LED Module Assembly, Amber, 12V	8573229-05
LED Module Assembly, Blue, 12V	8573229-06
Cable Assembly, 18-ft.	175789-05
Diode Assembly	1461054

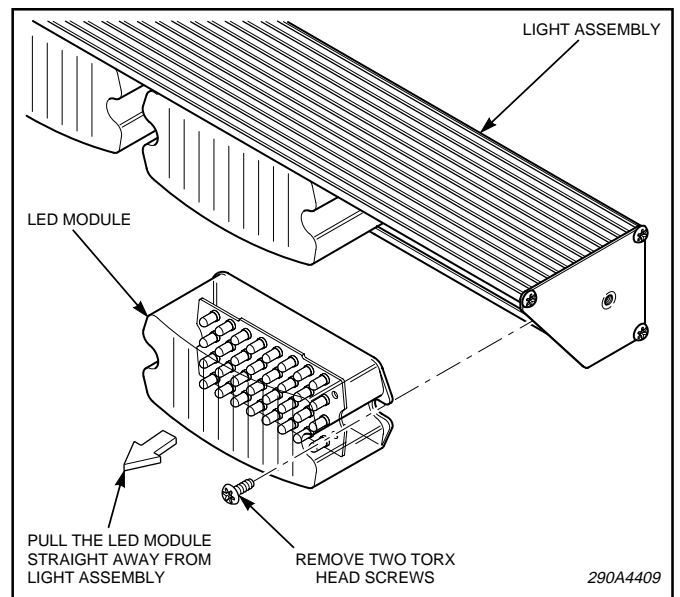


Figure 2.