

INSTRUCTION SHEET
FOR
QUADRAFLARE™ WARNING LIGHT ASSEMBLIES
MODELS QL64Z3V, QL64Z4V, AND QL64Z3H

SAFETY MESSAGE TO INSTALLERS



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 electrical procedures and systems, along with proficiency in the installation and use of safety warning equipment.
- DO NOT install equipment or route wiring or cord in the deployment path of an air bag.
- If a vehicle seat is temporarily 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.
- 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.

A. GENERAL.

The Federal Signal QL64Z3V, QL64Z4V, and QL64Z3H models are pre-assembled QuadraFlare Light Assemblies designed for mounting to the exterior of a vehicle. Every pre-assembled model will contain a QL64Z-BTT, QL64Z-TURN or QL64Z-ARROW, and QL64Z-BACKUP QuadraFlare Light Assembly. The QL64Z4V will also contain a QL64XF QuadraFlare Light Assembly. All QuadraFlare Light Assemblies are designed for operation on 12VDC and are intended to be mounted on the rear of a vehicle.

B. UNPACKING.

After unpacking the light, inspect it for damage that may have occurred in transit. If the unit has been damaged, do not attempt to install or operate it. 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.

C. KIT CONTENTS LIST.

Qty.	Description	Part No.
4	#10 x 3/4" Screw, S.S.	7011182-12

D. INSTALLATION.



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.

NOTE

For maximum coverage and effectiveness, each respective light assembly must be mounted in the orientation shown in figure 1. Make certain that the drain hole in each bezel casting is orientated on the bottom prior to mounting.

Before proceeding with installation, determine the approximate location of the light assembly and plan all cable/wire routing.

1. See figure 1. Position the QuadraFlare warning light assembly on the desired mounting surface. Ensure that the unit is level side to side. Using the QuadraFlare warning light assembly as a guide, and the provided dimensions in figure 1, scribe the four mounting hole locations and a wire routing hole location on the mounting surface.

CAUTION

Before drilling 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, fuel lines, electrical wiring or other vital parts.

2. Drill four 9/64" (.140) mounting holes and an appropriate sized wire routing hole at the previously scribed locations. The wire routing hole should be large enough to accommodate all necessary user supplied wiring, connectors, and grommets.

3. The QuadraFlare lights, QL64Z-BTT, QL64Z-TURN, QL64Z-ARROW, QL64Z-BACKUP, and QL64XF all have wires which exit out the back of the unit, for making electrical connections.

CAUTION

All drilled holes should be free of burrs and sharp edges. All wire routing holes should be grommets (user supplied) and/or sealed to avoid wire and/or vehicle damage.

4. Complete the electrical connections for each respective QuadraFlare light as described in Paragraph E. Electrical Connections.

5. See figure 1. Align the mounting gasket and QuadraFlare warning light assembly over the previously drilled holes. Carefully place any wire or connectors into the recessed area in the back of the aluminum bezel. Secure the assembly in position with the provided #10 x 3/4" screws.

E. ELECTRICAL CONNECTIONS.

1. *Model QL64Z-BTT.*

The QuadraFlare warning light assembly is designed to operate on 12VDC. Three 12-inch

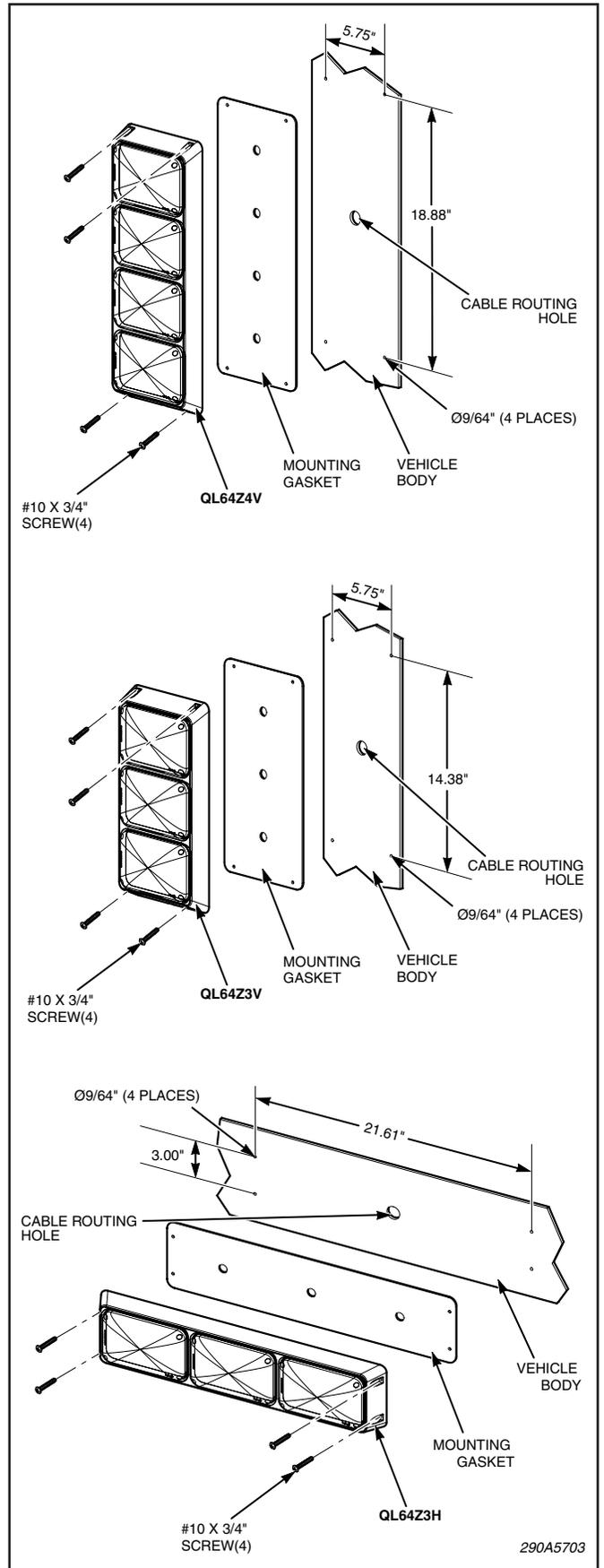


Figure 1.

long lead wires are supplied for making electrical connections to the QuadraFlare warning light assembly.

a. Using 18-gauge (minimum) wire, connect the red (+) lead to the positive power source terminal for BRAKE mode, and the white (+) lead to a different positive power source terminal for TAIL mode. The black (–) lead should be connected to the negative power source terminal.

b. Energize the supply circuit and test the QuadraFlare warning light assembly for proper operation.

2. *Models QL64Z-TURN, QL64Z-ARROW, QL64Z-BACKUP, and QL64XF.*

The QuadraFlare warning light assembly is designed to operate on 12VDC. Two 12-inch long lead wires are supplied for making electrical connections to the Model QL64Z-TURN, QL64Z-ARROW, QL64Z-BACKUP, and QL64XF warning light assemblies.

a. Using 18-gauge (minimum) wire, connect the red (+) lead to the positive power source terminal and the black (–) lead to the negative power source terminal.

b. Energize the supply circuit and test the QuadraFlare warning light assembly for proper operation.

SAFETY MESSAGE TO OPERATORS



Peoples' 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 man-made 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 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.

RETAIN AND REFER TO THIS MESSAGE

F. MAINTENANCE.

1. *General.*



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.

2. *Service.*

The Federal factory will provide technical assistance with any problems that cannot be handled locally.

Any units returned to Federal Signal for service, inspection, or repair must be accompanied by a Return Material Authorization. This R.M.A. can be obtained from a local Distributor or Manufacturer's Representative.

At this time a brief explanation of the service requested, or the nature of the malfunction, should be provided.

Address all communications and shipments to:

Federal Signal Corporation
Service Department
2645 Federal Signal Dr.
University Park, IL 60484-3176

3. *Replacement Parts.*

Description	Part No.
Lens Gasket	8012106
Mounting Gasket	8012016
QuadraFlare Mounting Screws, #6 x 1-1/2"	7011205-20
Screw Grommet	7065073
Lens, Fluted, Red	8012013
Lens, Fluted, Amber	8012013-01
Lens, Fluted, Clear	8012013-02
Lens, Fluted, Blue	8012013-03
Lens, Fluted, Green	8012013-04
Lens, Smooth, Red	8012018
Lens, Smooth, Amber	8012018-01
Lens, Smooth, Clear	8012018-02
Lens, Smooth, Blue	8012018-03
Lens, Smooth, Green	8012018-04
Bezel Mounting Screws	7011182-12
Bezel Mounting Gasket (QL64Z3V)	8012028
Bezel Mounting Gasket (QL64Z4V)	8012030
Bezel Mounting Gasket (QL64Z3H)	8012039

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