



INSTALLATION AND SERVICE INSTRUCTIONS FOR MOTOR REPLACEMENT KIT FOR COMMANDER® MODEL 371/371L LIGHTS

SAFETY MESSAGE TO INSTALLERS, USERS AND MAINTENANCE PERSONNEL

It is important to follow all instructions shipped with this product. This device is to be installed by a trained electrician who is thoroughly familiar with the National Electric Code/Canadian Electric Code and will follow the NEC/CEC Guidelines as well as local codes.

The selection of mounting location for the device, its controls and the routing of the wiring is to be accomplished under the direction of the facilities engineer and the safety engineer. In addition, listed below are some other important safety instructions and precautions you should follow:

- Read and understand all instructions before installing or operating this equipment.
- Disconnect power from the unit before performing any maintenance.
- After installation, test the light system to ensure that it is operating properly.
- After testing is complete, provide a copy of this instruction sheet to all operating personnel.
- Establish a procedure to routinely check the light installation for integrity and proper operation.

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

I. INSTALLATION.

This kit is to be used with Model 371 or 371L rotating lights. These instructions are intended to supplement, and not replace, the installation instructions provided with each of these models. The installer should insure that all installation instructions are followed.

A. *Unpacking.*

After unpacking the light, examine it for damage that may have occurred in transit. If the

equipment has been damaged, do not attempt to install or operate it. File a claim immediately with the carrier stating the extent of the damage. Carefully check all envelopes, shipping labels, and tags before removing or destroying them.

B. *Motor Replacement.*

WARNING

Disconnect the unit from the supply circuit before opening the enclosure.

1. Series B Model 371 & 371L Rotating Lights.

a. Remove the dome assembly by grasping the die-cast ring attached to the dome and turning it counter-clockwise. If difficulty occurs removing the dome assembly, place a screwdriver blade against one of the four bosses on the die-cast ring attached to the dome. Gently tap the screwdriver handle to loosen the dome assembly from the housing.

WARNING

To maintain the watertight enclosure, do not damage dome or threads while disassembly or reassembling the unit. Lubricated threaded joints exposed for long periods of time may attract small particles of dirt or other foreign materials. Re-assemble joint immediately after performing maintenance.

b. Remove the three no. 10 hex head screws that secure the mounting base to the housing and remove the base.

c. Disconnect the motor wires from the terminal block.

d. Remove the motor cover plate by removing the two no. 6 screws that secure the plate to the mounting base. Remove the motor plate assembly by removing the four no. 10 screws.

e. Assemble the new motor plate assembly to the mounting base making sure that the worm on the motor shaft engages with the gear attached to the lamp shaft. Apply a small amount of light high quality grease to the gear before re-installing the motor cover plate.

f. Attach the motor leads to the terminal block. The motor is not polarity sensitive.

g. Re-assemble the light and test for proper operation.

2. Series A Model 371 & 371L Rotating Lights.

a. Loosen and remove the retaining band from the light. Lift off the dome.

b. Remove the three 1/4-20 KEPS nuts that secure the base plate to the light housing and remove the base.

c. Disconnect the motor wires from the terminal block.

d. Remove the motor cover plate by removing the two no. 6 screws that secure the plate to the mounting base. Remove the motor plate assembly by removing the four no. 10 screws.

f. Before installing the new motor, crimp the provided ring terminals on the new motor leads.

g. Assemble the new motor plate assembly to the mounting base making sure that the worm on the motor shaft engages with the gear attached to the lamp shaft. Apply a small amount of light high

quality grease to the gear before re-installing the motor cover plate.

h. Attach the motor leads to the terminal block. The motor is not polarity sensitive.

i. Re-assemble the light and test for proper operation.

II. SERVICE.

The Federal factory will service your equipment or 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
Electrical Products Division
Service Department
2645 Federal Signal Drive
University Park, IL 60466-3195