

Installation and Maintenance Instructions for Strobe Lights Models 2ERT3 and 2ERT4

IMPORTANT SAFETY INFORMATION

Please read and follow the instructions in this manual carefully. Make sure installation is performed by an experienced technician who understands the National Electric Code, local codes, and guidelines.

Moreover, follow the instructions and cautions listed below:

- Read and understand all instructions before installing or using this product.
- Turn off the main power supply before installation or use of the product.
- After installation is finished, test the light system to make sure it works.
- Provide instruction information to all operating personnel.
- Develop and follow a procedure to check if the equipment is installed and used appropriately.
- The nameplate, which may contain cautions or other valuable information, should be kept in a location where it can be easily seen and read.

WARNING: *Failure to carry out all the safety procedures and instructions may cause property damage, serious injury, or death.*

INSTALLATION

Unpacking

After unpacking, check for any damage due to transportation. Do not install or operate the product if damaged. Contact the carrier immediately and file a damage claim stating the extent of damage. Thoroughly check all information with the product, including shipping labels etc. before removing them.

Mounting

Model 2ERT3:

See Figure 1 and proceed as follows:

1. Pick out a good location for mounting the strobe light.
2. Before beginning, decide how to route the wiring and cable.
3. Scribe the “wire routing hole” location on the mounting surface at the center of the strobe light location. Then scribe two “mounting hole” locations 2” to either side of the “wire routing hole” location.

CAUTION: Check both sides of mounting surface to be certain that other parts or wires are not affected. Make sure that holes are drilled through sheet metal only and not any other parts.

4. Check the mounting surface. The surface must be clean, dry and free of foreign substances.
5. At the scribed “mounting hole” locations drill two 0.171” holes. Drill one 0.31” hole at the scribed “wire routing hole” location. Remove any burrs or sharp edges.
6. Place the supplied grommet in the wire routing hole.
7. Run the red and black lead wires through the grommet on the mounting surface. Use a silicon sealing compound to seal all holes in the mounting surface.
8. Connect the red wire lead to one terminal of the vehicle switch (which must be capable of handling at least two amperes). Connect the black wire lead to the vehicle chassis as close as possible to the light. Connect the remaining switch terminal to the vehicle battery

with wire. (For runs under 20 feet, use 18-gauge wire. Consult local electrical codes if over 20 feet.) Finally, install an in-line fuse holder close to the battery with a two ampere fuse in the fuse holder.

NOTES: *The vehicle switch, wire for battery connection, 2 amp fuse and fuse holder are to be supplied by user.*

For proper connections and installation, polarity MUST be observed. The red wire must connect to positive terminal and the black wire to negative terminal. If the connections are reversed, the light will not function.

Make sure the vehicle’s voltage is within the voltage rating of the strobe light.

9. Use the screws, lock washers, and units (supplied) to install the light assembly on the mounting surface. Test the light for proper operation.

Model 2ERT4:

See Figure 3 and proceed as follows:

1. Pick out a good location for mounting the strobe light.
2. Before beginning, decide how to route the wiring and cable.
3. Using the gasket as a template, scribe the three “mounting hole” locations through the gasket onto the mounting surface. Then scribe the “wire routing hole” location on the mounting surface.
4. Check the mounting surface. For good adhesion with gasket, the surface must be clean, dry and free of foreign substances.
5. At the scribed “mounting hole” locations drill three 0.203” holes. Drill one 0.236” hole at the scribed “wire routing hole” location. Remove any burrs or sharp edges.
6. Place the supplied grommet in the wire routing hole. The grommet is designed to fit a hole 6 mm in diameter with a panel thickness of 1.5-2 mm.
7. Fit the fiber washers under the head of the screws to prevent water ingress and tighten down using the shake proof washers and nuts.
8. Run the power lead wires (red and black for 12-80 VDC) through the grommet and rubber gasket on the mounting surface. Use a silicon sealing compound to seal the exit hole at base of light.
9. Connect the red wire lead to one terminal of the vehicle switch (which must be capable of handling at least five amperes). Connect the black wire lead to the vehicle chassis as close as possible to the light. Connect the remaining switch terminal to the vehicle battery with wire. (For runs under 20 feet, use 18-gauge wire. Consult local electrical codes if over 20 feet.) Finally, install an in-line fuse holder close to the battery with a five ampere fuse in the fuse holder.

NOTES: *The vehicle switch, wire for battery connection, 5 amp fuse and fuse holder are to be supplied by user.*

For proper connections and installation, polarity MUST be observed. The red wire must connect to positive terminal and the black wire to negative terminal. If the connections are reversed, the light will not function.

Make sure the vehicle’s voltage is within the voltage rating of the strobe light.

10. Use the screws, lock washers, and units (supplied) to install the light assembly on the mounting surface. Test the light for proper operation.

SPECIFICATIONS

Model No.	2ERT3	2ERT4
Voltage	12-80 VDC	12-80 VDC
Current	0.55-0.095 A	0.033-0.049 A
Energy Output	3.0 Joules	2.0 Joules
Flash Rate	72 FPM	72 FPM
Operating Temperature	-30°F to 185°F	
Approvals	CE	
Environmental Rating	IP65	IP66

CONNECTING TO ELECTRIC

WARNING: To avoid electrical shock hazards, do not connect to supply circuit when power is applied.

The strobe lights come assembled from the factory. Two lead wires are supplied with each strobe light assembly. The 12-80 VDC models have a “+” red wire and a “-” black wire. If these lead wires are not used, follow the steps below. The lead wires installed on Model 2ERT3 cannot be removed.

1. Remove lens from housing by turning counterclockwise.
 2. Remove the printed circuit board (model 2ERT4) by loosening the two screws inside the housing and lifting the board assembly.
 3. Run supply wires (14AWG to 18AWG) inside the housing through a hole in housing.
 4. Strip a maximum of 0.25” (6.4 mm) of insulation from the ends of the power lead wires. Connect wires to terminal block by putting the stripped ends of the wire into the connector as far as they can go and then tightening the clamping screw.
- NOTE:** Be sure to notice the polarity on the 12-80 VDC circuit board assembly. The terminals are designated by a “+” and “-” on the terminal block for the respective positive and negative supply leads. The maximum torque for tightening field wiring connections on the terminal block is 5 in-lb. Be certain the power supply lead insulation is flush with connector. When stranded wire is used, make certain no loose strands are outside the connector that could touch and short circuit another lead.
5. For reassembly (Model 2ERT4), screw printed circuit board to the housing. Be sure that the board sets on the mounting platforms and the supply wires are not pinched when inserting board.
 6. Attach lens to housing by turning clockwise until it is seated.
 7. Apply power to the supply circuit and test strobe light for operation.

WARNING: High voltages are present within the light assembly. Wait at least 5 minutes after turning off the power to service the unit.

REPLACEMENT PARTS

No replacement parts are available for models 2ERT3 and 2ERT4.

For Technical Support or Troubleshooting, call: 1-800-323-0620

Printed in China
Supplier #9666
0717/CM

CM 134
07/17

UNDERWRITERS LABORATORIES WARNING EXPLANATION

“WARNING: Not to be used as a visual public mode alarm notification appliance.”

WHAT DOES THIS MEAN?

Underwriters Laboratories has two different standards to investigate and List visual signal appliances. The first UL Standard for Safety is UL1971 - Signaling Devices for the Hearing Impaired. This standard covers visual signaling devices intended for fire alarm systems to alert the hearing impaired. The second UL Standard for Safety is UL1638 - Visual Signaling Appliances-Private Mode Emergency and General Utility Signaling. Although this standard may also cover visual signal appliances, it does not include the determination of adequacy relevant to alerting hearing-impaired individuals in a fire alarm system.

In order to avoid any misapplication of a visual signal appliance Listed to UL1638, UL determined that it is the manufacturer’s responsibility to warn the installer in the field and Authority Having Jurisdiction (AHJ) of what would be an inappropriate use of the product. Therefore, manufacturers whose products are Listed to UL1638 are required by Underwriters Laboratories to bear the warning, “Warning: Not to be used as a visual public mode alarm notification appliance”.

“Public Operating Mode” and “Notification Appliance” as defined in the National Fire Alarm Code, NFPA 72 is as follows:

Public Operating Mode: Audible or visible signaling to occupants or inhabitants of the area protected by the fire alarm system.

Notification Appliance: A fire alarm system component such as a bell, horn, speaker, light, or text display that provides audible, tactile, or visible outputs, or any combination thereof.

Therefore, this device **should not** be used as a component of a commercial fire alarm system.

Figure 1 – Model 2ERT3

- A. Strobe assembly
- B. Mounting surface
- C. Grommet
- D. Drill 0.171 dia. holes (2)

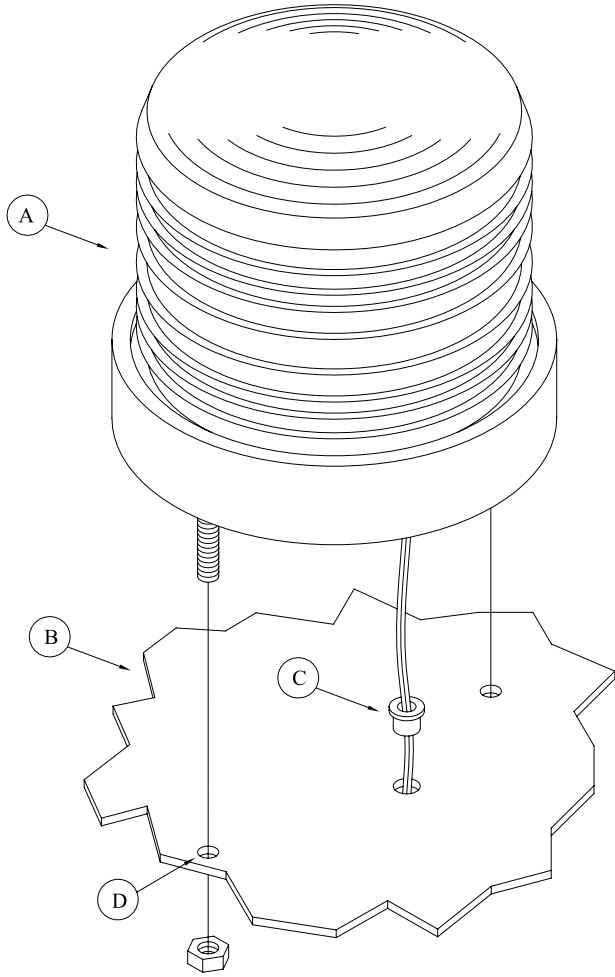


Figure 2 – Model 2ERT3

- A. Lens
- B. Strobe tube
- C. Encapsulated circuit board assembly
- D. Fixing plate
- E. Housing

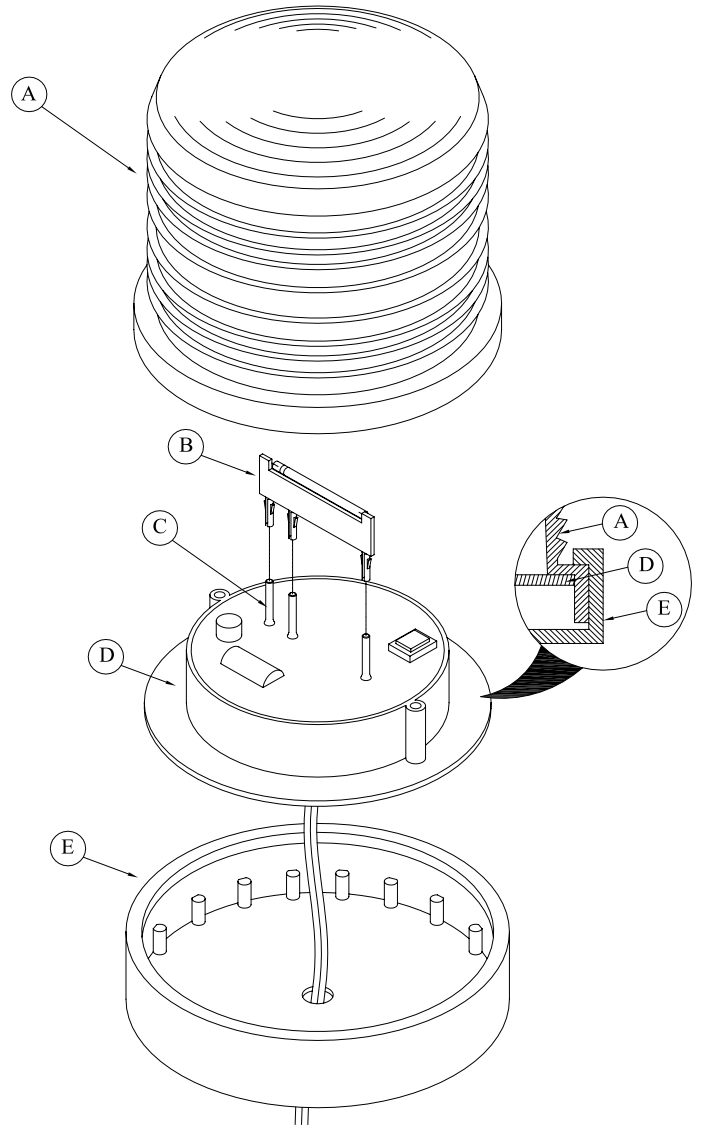


Figure 3 – Model 2ERT4

- A. Strobe assembly
- B. Gasket
- C. Mounting surface
- D. #10-32 hex nuts (3)
- E. Pan head screws (3)
- F. Grommet
- G. Drill 0.203 dia. Holes (3)

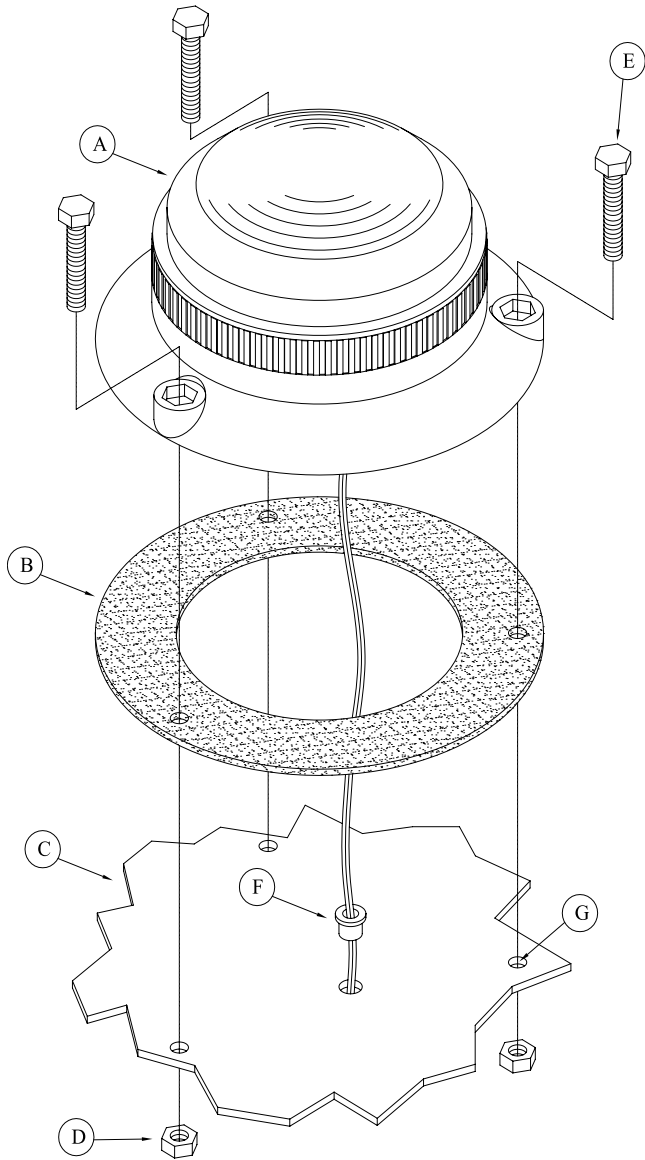


Figure 4 – Model 2ERT4

- A. Lens
- B. Lens gasket
- C. Strobe tube
- D. Printed circuit board assembly
- E. Housing
- F. Mounting Surface

