



# EGGO<sup>®</sup>

## Installation and Operation Instructions 360° Strobe Beacon

The 6700 Series Strobes are designed to meet SAE J1318 Class 2 specifications and reflect the latest advances in 360° strobe warning technology. The strobes have many features including the following:

- LED indicator showing proper operation of the strobe
- Field replaceable flash tube
- Field selectable for dual or quad flash
- Voltage spike and surge protected
- High voltage and current protection



**IMPORTANT!** Read all instructions before installing and using. Installer: This manual must be delivered to the end user.



### **WARNING!**

**Failure to install or use this product according to manufacturer's recommendations may result in property damage, serious bodily/personal injury, and/or death to you and those you are seeking to protect!**



**Do not install and/or operate this safety product unless you have read and understand the safety information contained in this manual.**

1. Proper installation combined with operator training in the use, care, and maintenance of emergency warning devices are essential to ensure the safety of you and those you are trying to protect.
2. Exercise caution when working with live electrical connections.
3. This product must be properly grounded. Inadequate grounding and/or shorting of electrical connections can cause high current arcing, which can cause personal injury and/or severe vehicle damage, including fire.
4. Proper placement and installation are vital to the performance of this warning device. Install this product so that output performance of the system is maximized and the controls are placed within convenient reach of the operator so that s/he can operate the system without losing eye contact with the roadway.
5. It is the responsibility of the vehicle operator to ensure during use that all features of this product work correctly. In use, the vehicle operator should ensure the projection of the warning signal is not blocked by vehicle components (i.e., open trunks or compartment doors), people, vehicles, or other obstructions.
6. The use of this or any other warning device does not ensure all drivers can or will observe or react to a warning signal. Never take the right-of-way for granted. It is your responsibility to be sure you can proceed safely before entering an intersection, driving against traffic, responding at a high rate of speed, walking on or around traffic lanes.
7. This equipment is intended for use by authorized personnel only. The user is responsible for understanding and obeying all laws regarding warning signal devices. Therefore, the user should check all applicable city, state, and federal laws and regulations. The manufacturer assumes no liability for any loss resulting from the use of this warning device.
8. This product contains high intensity LEDs, staring directly into these lights could result in temporary and/or permanent vision impairment.

## Specifications:

Size:	6750	6.0" dia. x 4.8" high
	6770	6.0" dia. x 6.7" high
Weight:	6750	approx. 2.9 lbs.
	6770	approx. 3.1 lbs.
Input Voltage:	12 and 24 VDC systems	
Input Current:	5 amps DC start-up current, all units	
	2.8 amps @ 12.8 VDC	
	1.4 amps @ 25.6 VDC	
	Maximum power consumption: 40 Watts	

Flash Rate:	
Double flash mode:	80 cycles/minute
Quad flash mode:	65 cycles/minute
Output Power (total):	16 joules - quad flash 10 joules - double flash
Temp. Range:	-30°C to +50°C

## Installation & Mounting:

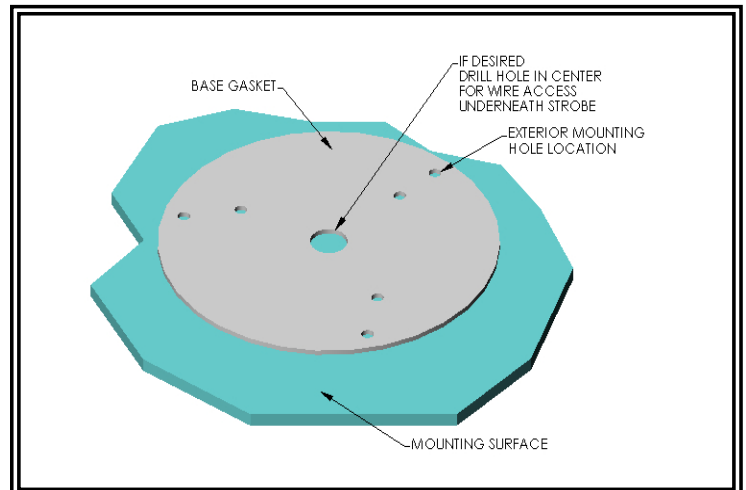
**IMPORTANT!** This unit is a safety device, and it must be connected to its own separate, fused power point to assure its continued operation should any other electrical accessory fail.

**CAUTION!**  
When drilling into any vehicle surface, make sure that the area is free from any electrical wires, fuel lines, vehicle upholstery, etc. that could be damaged.

**Carefully remove the strobe and place it on a flat surface. Examine the unit for transit damage, and locate all parts. If damage is found, or parts are missing, contact the transit company or ECCO. Do not use damaged or broken parts.**

### Permanent Mounting:

1. Select the desired location on a flat surface for the strobe beacon to be mounted. The visibility of the strobe flash and ease of wiring access should be taken into consideration in the selection of the mounting location.
2. Using the base gasket as a template, mark the three mounting hole locations (see Figure 1).
3. Drill the holes using a 7/32" drill size.
4. A fourth hole may be drilled for wire access as shown in Figure 1, or the wires may be routed through the slot in the base for external access.
5. Connect the power wires as shown in the wiring section (see Figure 2).
6. Mount the strobe with #10 hardware.



**Figure 1**

### Pipe Mounting: (Optional)

The 6700 series base comes with 1" NPT threads for pipe mounting.

## Wiring Instructions:

### Notes:

1. Larger wires and tight connections will provide longer service life for components. For high current wires it is highly recommended that terminal blocks or soldered connections be used with shrink tubing to protect the connections. Do not use insulation displacement connectors (e.g., 3M Scotchlock type connectors).
2. Route wiring using grommets and sealant when passing through compartment walls. Minimize the number of splices to reduce voltage drop. High ambient temperatures (e.g., under-hood) will significantly reduce the current carrying capacity of wires, fuses, and circuit breakers. All wiring should conform to the minimum wire size and other recommendations of the manufacturer and be protected from moving parts and hot surfaces. Looms, grommets, cable ties, and similar installation hardware should be used to anchor and protect all wiring.
3. Fuses or circuit breakers should be located as close to the power takeoff points as possible and properly sized to protect the wiring and devices.
4. Particular attention should be paid to the location and method of making electrical connections and splices to protect these points from corrosion and loss of conductivity.
5. Ground termination should only be made to substantial chassis components, preferably directly to the vehicle battery.
6. Circuit breakers are very sensitive to high temperatures and will "false trip" when mounted in hot environments or operated close to their capacity.

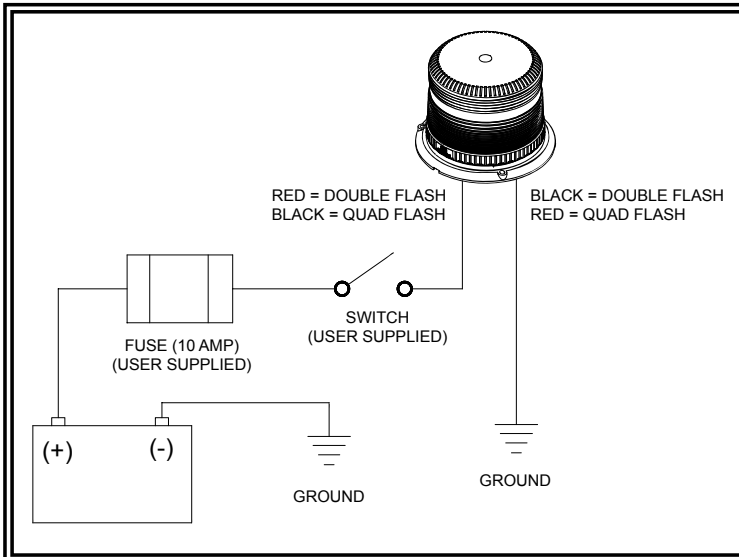
**Important:** Disable power before wiring up the strobe head.

### Troubleshooting:



#### WARNING!

The strobe power supply is a high voltage device. To avoid the risk of electrical shock, wait 5 minutes after turning off power before removing lens for access to internal parts of the strobe head.



**Figure 2**

There are two operation modes for this strobe: double flash and quad flash.

#### Double Flash Operation:

The wiring for this configuration is as shown in Figure 2 above. All wiring should be a minimum of 18AWG. For double flash mode, the red wire is positive, and must have a 10 amp fuse. A switch may be used to control the on/off function. The black (negative) wire is connected to the battery ground.

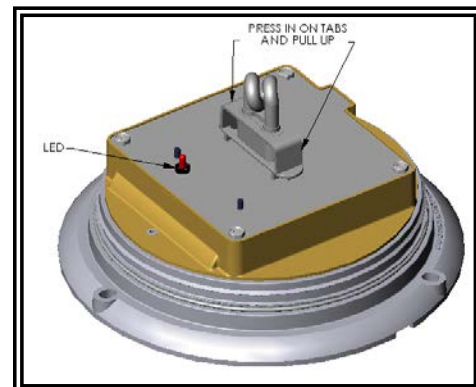
#### Quad Flash Operation:

The wiring for this configuration is as shown in Figure 2. All wiring should be a minimum of 18AWG. For quad flash mode, the black (positive) wire must have a 10-amp fuse. A switch may be used to control the on/off function. The red (negative) wire is connected to the battery ground.

#### Maintenance:

This strobe light has been designed for trouble free operation. There are no periodic maintenance needs for this model.

1. Most strobe failures, including intermittent or erratic operation as well as failure of operation can be traced to wiring or battery problems. Check all wiring, connections, fuse, switch, and battery voltage to insure that the correct voltage is reaching the strobe light.
2. If the wiring or battery is not at fault, turn on the strobe, look through the lens to check to see if the LED is flashing (see Fig. 3 for the location of the LED). If the LED is flashing, and the flashtube is not, the flashtube may need to be replaced. If the LED is not flashing, return product to your local dealer for warranty replacement, or call ECCO Customer Service for assistance (800) 635-5900.
3. To replace the flashtube, remove the flashtube by squeezing on the tabs on the side of the tube holder and pulling off. See Figure 3. Plug in the new flashtube. Do not touch the glass of the new flashtube with your fingers. Use gloves or a soft cloth. Note: The connector is keyed to ensure proper orientation. Do not force.
4. Reassemble the strobe. If this has not remedied the problem, return product to your local dealer for warranty replacement, or call ECCO Customer Service for assistance (800) 635-5900.



**Figure 3**

## Replacement Parts/Accessories

Description	Part No.
Flash Tube	R6501FT
Lens, 4" (replacement for 6750)	R6050LX*
Lens, 6" (replacement for 6770)	R6070LX*
Self Leveling Bracket	A6600SLB
Branch Guard (for use with 6750)	A6050BG

Branch Guard (for use with 6770)	A6070BG
Dust Cover (for use with 6750)	A6050DC
Dust Cover (for use with 6770)	A6070DC
Vibration Dampening Kit	A6600VDK
Black Top Decal	A6501BT

\*where (X) indicates color:      A = Amber      B = Blue  
    C = Clear      G = Green  
    R = Red

**Note: Operating the vehicle without the lens installed on the product, may result in damage that will NOT be covered under warranty**

### Manufacturer Limited Warranty and Limitation of Liability:

Manufacturer warrants that on the date of purchase this product will conform to Manufacturer's specifications for this product (which are available from the Manufacturer upon request), and Manufacturer further warrants that this product is free from defects in materials and workmanship. This Limited Warranty extends for twenty-four (24) months, from the date of purchase. Other warranties may apply, call Manufacturer for details. Manufacturer will, at its discretion, repair or replace any product found by the Manufacturer to be defective and subject to this Limited Warranty.

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