



# ECCO®

# Installation and Operation Instructions 360° Strobe Beacon



### Models 6550 & 6570 Strobe Beacons

6500 Series strobe beacons are designed to meet SAE J1318 Class II specifications. Available in 5" & 7" height profiles, the 6500 Series feature a thread-on lens, snap-fit flashtube, and 3 bolt flange/1" pipe or magnetic mounting options. 6500 Series strobes will function on 12-48 VDC electrical systems and offer a choice of 80FPM double flash or 65FPM quad flash operation.



### WARNING!

Failure to install or use this product according to manufacturers recommendations may result in property damage, serious injury, and/or death to 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

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 seeking 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. Do not install this product or route any wires in the deployment area of an air bag. Equipment mounted or located in an air bag deployment area may reduce the effectiveness of the air bag or become a projectile that could cause serious personal injury or death. Refer to the vehicle owner's manual for the air bag deployment area. It is the responsibility of the user/operator to determine a suitable mounting location ensuring the safety of all passengers inside the vehicle particularly avoiding areas of potential head impact.
6. 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.
7. 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, or walking on or around traffic lanes.
8. 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.

### Specifications:

Size: 6550X - Permanent 6.8" dia. x 4.9" high  
 6550X-VM - V/Magnet 7.8" dia. x 5.6" high  
 6570X - Permanent 6.8" dia. x 6.7" high  
 6570X-VM - V/Magnet 7.8" dia. x 7.5" high

Weight: 6550X - Permanent approx. 1.2 lbs.  
 6550X-VM - V/Magnet approx. 2.7 lbs.  
 6570X - Permanent approx. 1.4 lbs.  
 6570X-VM - V/Magnet approx. 2.8 lbs.

Input Voltage: 12 to 48 VDC (9-56V)

Current Draw: 2.37 Amps - Peak  
30.3 Watts - Maximum

Operating temperature range: -30 to +50°C

### Installation & Mounting:

**Permanent Mounting:** 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. Using the base gasket as a template, mark the three mounting hole locations (see Figure 1). Drill the holes using the correct drill size to match the hardware. 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. Connect the power wires as shown in the wiring section (see Figure 3).



### WARNING!

Maximum recommended vehicle speed for safe operation using the Vacuum Mount model is 65 mph (104 km/h), when fitted to the center of a vehicle roof of steel construction. Higher speeds could cause the mount to fail, resulting in the beacon flying off of the vehicle, which could cause damage to other vehicles, and injury or death to the passengers. The vacuum-magnet mount is not intended as a permanent mounting for the beacon. The vacuum-magnet mount unit must be mounted on a flat smooth magnetic surface (i.e. no fiberglass, ribbed style roofs, etc.). Ensure that the magnet is kept clean.

### Wiring Instructions:

The wiring for the strobe is as shown in Figure 3 below. All wiring should be a minimum of 18AWG. The positive line must have a 10 amp fuse. A switch may be used to control the on/off function. **Note:** Power must be shut off when changing flash modes.

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

**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.

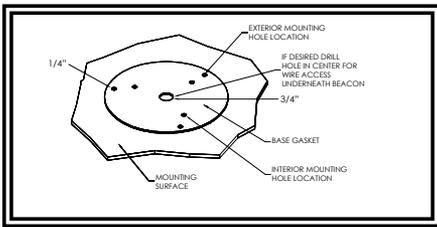


Figure 1

**Pipe Mounting:** The 6500 series base comes with 1" NPT threads for pipe mounting.

**Temporary Mounting, Vacuum-Magnet Mount:** The Vacuum-Magnet Mount feature includes a suction cup on the bottom of the beacon, with a magnet inside of the suction cup, for a secure, temporary mount. The beacon should be placed in the center of the roof where the least amount of curvature occurs. Before installing, make sure the mounting surface is clean and there is no debris on the bottom of the beacon or on the roof of the vehicle, which could reduce the holding power of the suction cup and magnet. Place and remove the beacon without sliding to avoid scratching the paint on the vehicle. After placement, the beacon should adhere firmly to the surface. If the unit slides or moves easily, a proper installation has not been obtained. To release the vacuum, lift the tab to release the airlock (see Figure 2). To protect the Vacuum-Magnet Mount assembly, return the beacon to the box when not in use. **Do not attempt to attach the beacon to an ice-covered surface.**

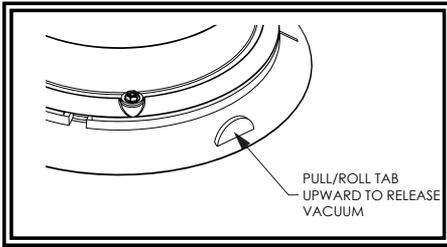


Figure 2

**Replacement Parts & Accessories:**

Description	Part Number
Flash Tube	R6501FT
Lens, 4" (replacement for 6550)	R6050LX*
Lens, 6" (replacement for 6570)	R6070LX*
Magnet Mount Kit	A6600MK
Self Leveling Bracket	A6600SLB
Branch Guard (for use with 6550)	A6050BG
Branch Guard (for use with 6570)	A6070BG
Dust Cover (for use with 6550)	A6050DC
Dust Cover (for use with 6570)	A6070DC
Vibration Dampening Kit	A6600VDK
Black Top	A6600BT

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

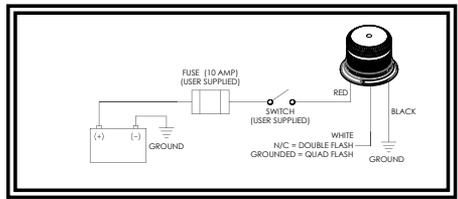


Figure 3

**Maintenance & Troubleshooting:**

Most strobe failures can be traced to wiring or battery problems. Check all wiring and connections to insure the correct voltage is reaching the strobe light. If the strobe operates erratically or stops completely, and the wiring is not at fault, the flashtube is probably worn. To replace it, remove the lens, and remove the flashtube by squeezing on the tabs on the side of the tube holder and pulling off. **WARNING!** The strobe power supply is a high voltage device. Wait 5 minutes after turning off power before removing lens for access to internal parts. Plug in the new tube assembly. See Figure 4. **Note:** The connector is keyed to ensure proper orientation. Do not force. If trouble continues, return product to your local dealer for warranty replacement, or call ECCO Customer Service for assistance (800) 635-5900.

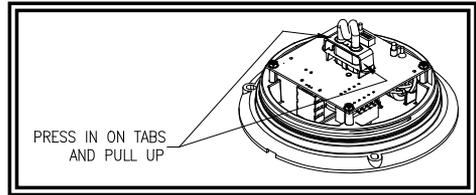


Figure 4

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