

# WHELEN<sup>®</sup>

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## Installation Guide: 508 Series Lighthouse (Linear Strobe)

### Safety First

This document provides all the necessary information to allow your Whelen product to be properly and safely installed. Before beginning the installation and/or operation of your new product, the installation technician and operator must read this manual completely. Important information is contained herein that could prevent serious injury or damage.

- Proper installation of this product requires the installer to have a good understanding of automotive electronics, systems and procedures.
- If mounting this product requires drilling holes, the installer **MUST** be sure that no vehicle components or other vital parts could be damaged by the drilling process. Check both sides of the mounting surface before drilling begins. Also de-burr any holes and remove any metal shards or remnants. Install grommets into all wire passage holes.
- If this manual states that this product may be mounted with suction cups, magnets, tape or Velcro<sup>®</sup>, clean the mounting surface with a 50/50 mix of isopropyl alcohol and water and dry thoroughly.
- Do not install this product or route any wires in the deployment area of your air bag. Equipment mounted or located in the air bag deployment area will damage or reduce the effectiveness of the air bag, or become a projectile that could cause serious personal injury or death. Refer to your vehicle owner's manual for the air bag deployment area. The User/Installer assumes full responsibility to determine proper mounting location, based on providing ultimate safety to all passengers inside the vehicle.
- For this product to operate at optimum efficiency, a good electrical connection to chassis ground must be made. The recommended procedure requires the product ground wire to be connected directly to the **NEGATIVE (-)** battery post.
- If this product uses a remote device to activate or control this product, make sure that this control is located in an area that allows both the vehicle and the control to be operated safely in any driving condition.
- Do not attempt to activate or control this device in a hazardous driving situation.
- This product contains either strobe light(s), halogen light(s), high-intensity LEDs or a combination of these lights. Do not stare directly into these lights. Momentary blindness and/or eye damage could result.
- Use only soap and water to clean the outer lens. Use of other chemicals could result in premature lens cracking (crazing) and discoloration. Lenses in this condition have significantly reduced effectiveness and should be replaced immediately. Inspect and operate this product regularly to confirm its proper operation and mounting condition. Do not use a pressure washer to clean this product.
- It is recommended that these instructions be stored in a safe place and referred to when performing maintenance and/or reinstallation of this product.
- **FAILURE TO FOLLOW THESE SAFETY PRECAUTIONS AND INSTRUCTIONS COULD RESULT IN DAMAGE TO THE PRODUCT OR VEHICLE AND/OR SERIOUS INJURY TO YOU AND YOUR PASSENGERS!**

**For warranty information regarding this product, visit [www.whelen.com/warranty](http://www.whelen.com/warranty)**

## Installation:

There are two ways to mount the 508 lighthouse, each offering its own benefits:

- Secured to vehicle using supplied #8 x 1½" sheet metal screws.
- Secured to vehicle using an industry-strength, double-sided adhesive tape, like Scotch® brand VHB™ model 4956 foam tape.

This manual will outline the first procedure.

1. Position the 508 lighthouse in its mounting location. Make sure that the 508 will not interfere with any existing equipment. Also be aware of any and all items on the opposite side of the mounting surface to prevent any possible damage to existing components.
2. Position the supplied mounting template on the mounting location and temporarily secure it to the surface. Be sure the template is FLAT against the surface.

**NOTE:** Before proceeding, place the reflector against the template and confirm that the mounting holes on the template line up with the actual mounting holes on the reflector.

**NOTE:** Be sure the drainage provisions for both the reflector and gasket are on the bottom. Each gasket is labeled.

3. Using a .250" drill bit, drill the mounting holes as shown on the template.
4. Using a .375" drill bit, drill a wire passage hole where indicated on the template.
5. Route the cable assembly through the wiring hole towards the strobe power supply. Be sure that both ring terminals are grounded to the vehicle chassis ground.
6. Plug the 508 into the cable and plug the cable into the strobe power supply. Test operation of the 508 before securing it to the vehicle.
7. Install the round hole grommets into the mounting holes. Position the lens onto the reflector. Place this assembly onto the mounting surface and secure using the supplied mounting screws.

**WARNING!** To insure proper mounting of this product, special round hole screw grommets have been included with your mounting hardware. Do not install this product without these grommets! Over-tightening the mounting screws may cause permanent damage to the reflector and/or lens!



