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**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.
- 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 owners 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.
- **WARNING!** All customer supplied wires that connect to the positive (+) terminal of the battery must be sized to supply at least 125% of the maximum operating current and **FUSED** "at the battery" to carry that load. **DO NOT USE CIRCUIT BREAKERS WITH THIS PRODUCT!**
- **FAILURE TO FOLLOW THESE PRECAUTIONS AND INSTRUCTIONS COULD RESULT IN DAMAGE TO THE PRODUCT OR VEHICLE AND/OR SERIOUS INJURY TO YOU AND YOUR PASSENGERS!**

The School Bus Warning Strobe Installation is outlined in two sections. The first section applies only to new school buses prior to any holes made for the mounting of the strobe reflectors. The second section applies to a bus with an existing warning system.

**Section I: Installing a School Bus Warning Strobe**

1. Using an awl or other suitable tool, scribe the mounting area where the mounting holes are to be drilled and the reflector hole is to be trimmed. Refer to figure 1 for the mounting hole specifications.

**CAUTION:** This installation will require drilling. It is absolutely necessary to make sure that no other vehicle components could be damaged in the process. If damage is possible, select a different mounting location.

2. Carefully drill the mounting holes using an appropriately sized drill bit determined by the size of the mounting hardware and the thickness of the mounting surface.
3. Trim the reflector hole to the diameter specified in figure 1.
4. Locate the wire harness (previously installed with power supply unit). Connect the 3-position (pin) connector to the 3-position (socket) connector on the wire harness as shown in figure 2.5. Now, position the unit on the mounting surface aligned with the mounting holes. Using the customer supplied mounting hardware, secure the unit to the mounting surface as shown in figure 3.

5. Insert the strobe housing into the reflector and secure it with a counterclockwise 1/8" turn. Connect the strobe lamp to the strobe power supply. Return the lens to its proper location and secure it with its original hardware.

**Section II: Replacing a School Bus Warning Strobe**

1. Extract the #10 sheet metal screw and remove the existing strobe lens from the warning light assembly. This will allow access to the light socket (see Fig. 3).
2. Rotate the twist-in strobe lamp 1/8" of a turn counter-clockwise and extract the strobe lamp from the reflector. Disconnect the 3-position connector from the wire harness and remove the twist-in strobe lamp from the strobe assembly (refer to Fig. 2).

**CAUTION:** If you are upgrading your school bus warning system from a halogen flash to a strobe light, make sure that you are using the proper power supply system. Follow the strobe power supply instruction manual for this system's correct wiring and replacement installation.

3. Connect the new twist-in strobe lamp to the existing wire harness. Insert the twist-in strobe housing into the reflector and secure it with a counterclockwise 1/8" turn. Return the lens to its proper location and secure it with its original hardware.

**IMPORTANT!** Before returning the vehicle to active service, visually confirm the proper operation of this product, as well as all vehicle components/equipment.

