WARNINGS TO INSTALLERS

Whelen’s emergency vehicle warning devices must be properly mounted and wired in order to be effective and safe. Read and follow all of Whelen’s written instructions when installing or using this device. Emergency devices are often operated under high speed stressful conditions which must be accounted for when installing all emergency warning devices. Controls should be placed within convenient reach of the operator so that they can operate the system without taking their eyes off the roadway. Emergency warning devices can require high electrical voltages and/or currents. Properly protect and use caution around live electrical connections. Grounding or shorting of electrical connections can cause high current arcing, which can cause personal injury and/or vehicle damage, including fire. Many electronic devices used in emergency vehicles can create or be affected by electromagnetic interference. Therefore, after installation of any electronic device it is necessary to test all electronic equipment simultaneously to insure that they operate free of interference from other components within the vehicle. Never power emergency warning equipment from the same circuit or share the same grounding circuit with radio communication equipment. All devices should be mounted in accordance with the manufacturer’s instructions and securely fastened to vehicle elements of sufficient strength to withstand the forces applied to the device. Driver and/or passenger air bags (SR5) will affect the way equipment should be mounted. This device should be mounted by permanent installation and within the zones specified by the vehicle manufacturer, if any. Any device mounted in the deployment area of an air bag will damage or reduce the effectiveness of the air bag and may damage or dislocate the device. Installer must be sure that this device, its mounting hardware and electrical supply wiring does not interfere with the air bag or the SR5 wiring or sensors. Mounting the unit inside the vehicle by a method other than permanent installation is not recommended as unit may become dislodged during swerving; sudden braking or collision. Failure to follow instructions can result in personal injury. Whelen assumes no liability for any loss resulting from the use of this warning device. PROPER INSTALLATION COMBINED WITH OPERATOR TRAINING IN THE PROPER USE OF EMERGENCY WARNING DEVICES IS ESSENTIAL TO INSURE THE SAFETY OF EMERGENCY PERSONNEL AND THE PUBLIC.

WARNINGS TO USERS

Whelen’s emergency vehicle warning devices are intended to alert other operators and pedestrians to the presence and operation of emergency vehicles and personnel. However, the use of this or any other Whelen emergency warning device does not guarantee that you will have the right-of-way or that other drivers and pedestrians will properly heed an emergency warning signal. Never assume you have the right-of-way. It is your responsibility to proceed safely before entering an intersection, driving against traffic, responding at a high rate of speed, or walking on or around traffic lanes. Emergency vehicle warning devices should be tested on a daily basis to ensure that they operate properly. When in actual use, the operator must ensure that both visual and audible warnings are not blocked by vehicle components (i.e.: open trunks or compartment doors), people, vehicles, or other obstructions. It is the user’s responsibility to understand and obey all laws regarding emergency warning devices. The user should be familiar with all applicable laws and regulations prior to the use of any emergency vehicle warning device. Whelen’s audible warning devices are designed to project sound in a forward direction away from the vehicle occupants. However, because sustained periodic exposure to loud sounds can cause hearing loss, all audible warning devices should be installed and operated in accordance with the standards established by the National Fire Protection Association.

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.

⚠️ WARNING: This product can expose you to chemicals including Lead which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

- Proper installation of this product requires the installer to have a good understanding of automotive electronics, systems and procedures.
- Whelen Engineering requires the use of waterproof butt splices and/or connectors if that connector could be exposed to moisture.
- Any holes, either created or utilized by this product, should be made both air- and watertight using a sealant recommended by your vehicle manufacturer.
- Failure to use specified installation parts and/or hardware will void the product warranty.
- 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 the holes and remove any metal shavings 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®, 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 vehicle manufacturer 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. (This does not include products that use cigar power cords).
- If this product uses a remote device for activation or control, make sure that this device is located in an area that allows both the vehicle and the device 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!
**Installation:**

1. Place the light housing onto the vehicle spoiler in the exact mounting position. The housing must be centered side to side and is designed to conform to the vehicle. Mark the 10 mounting hole locations onto the spoiler and remove the housing (Fig. 1).

2. Follow factory specifications to remove the spoiler from the vehicle. Place the spoiler onto your work bench. Place the housing in position on top of the spoiler lining up mounting holes into the spoiler that you marked in step 1 and drill the 10 mounting holes (Fig. 1).

3. On the spoiler, clean the area the double sided tape will sit using the supplied alcohol wipes. Loosely insert two of the rear outside mounting screws through the housing and into the spoiler to keep it in position.

4. Carefully tilt the front of the housing up and remove the tape backing from the 6 places indicated then carefully lower the light housing back onto the spoiler and press firmly along the top of the housing to make the tape adhere to the spoiler. Make sure the screws you inserted to hold the housing in place do not move during this operation (Fig. 2).

5. When the light housing is firmly adhered to the spoiler remove the 3 screws holding the light array to the housing and lift the housing off. The light array is now secured to the spoiler in its exact mounting position. Press the top of the array firmly to further adhere the tape then permanently secure the array to the spoiler with the 6 supplied 6 X 1/2 Phillips Pan Head Sheet Metal Screws.

6. Turn the spoiler over. Make sure the wire holes do not interfere with the light array then drill a wire passage hole all the way through the spoiler in the location shown (Fig. 3). Install rubber grommets in the hole (customer supplied) and seal around the grommets with RTV sealer.

7. Feed the wire harness control and power cables through the wire passage hole and out the bottom of the spoiler. The cables will enter the vehicle through the factory wire passage from the body to the rear hatch.

8. Extend the cable to your switchbox. Follow the wiring diagrams on the next page for connections and fusing.

9. Mount the spoiler back onto the vehicle following factory specifications. Make sure you use a grommet (customer supplied) sealed with RTV in any wire holes and seal around any holes in the vehicle with RTV sealer.
NOTE: Each positive wire has a current draw of 1 AMP.
Wiring and Operation:

Power Cable:
RED: Connects to the positive terminal of the battery fused at 10 AMPS. Provides power to the lightbar.
BLACK: Connect to vehicle ground.

Function Cable:
WHITE (Scan-Lock™)
Turn on the lightbar (lightbar will be flashing) and choose a flash pattern. Or you may activate the function you wish to change and choose a pattern.

To cycle forward through patterns apply +VBAT to the WHT wire for less than 1 second and release.

To cycle backward through patterns apply +VBAT to the WHT wire for over 1 second and release. When the desired pattern is displayed, allow it to run for more than 5 seconds. The lighthead will now display this pattern when active.

To reset to the factory default pattern Turn off power. Apply +VBAT to the WHT wire while turning power back on.

BLACK (Low Power): Apply +VBAT to the BLACK wire to make the lightbar step down to low power and remove voltage for normal operation.

BLUE (Sequence to Left): With the unit activated, applying +VBAT to the BLUE wire causes lightheads to flash, starting at LEFT and flashing toward RIGHT.

BLUE and GREY (Split T/A): Activating both the BLUE and GREY wires at the same time will give you a split TA pattern.

GREY (Sequence to Right): With the unit activated, applying +VBAT to the GREY wire causes lightheads to flash, starting at LEFT and flashing toward RIGHT.