Automotive: Lightbars

Installation Guide:
Edge® 9M Lightbar Kit
(2 or 4 Halogen or LED Lightheads)

WARNING:
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.

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 Methylene Chloride which is known to the State of California to cause cancer, and Bisphenol A, which is known to the State of California to cause 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 the 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 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®, 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 and may damage or dislodge 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 SRS 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.

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- For warranty information regarding this product, visit www.whelen.com/warranty

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4 Lightheads: Installation & Wiring

WARNING! The strobe light power supply is a high voltage device. Do not remove the strobe tubes or dismantle the strobe lightheads in the system while the unit is in operation. Wait 10 minutes after turning off power before starting any work or trouble shooting on the system.

First install the flasher board onto the power distribution board, located on the front passenger side of the inner wall of the lightbar base (see next page).

1. Remove the endcaps. If your lightbar has alley lights, you must unplug them before fully removing the endcap (see below).
2. Remove any lenses, lightheads or filler panels necessary to access the power distribution board (Figs. 1 & 2).

Removing the Endcap and Lenses
Remove the 4 screws (A) that hold the endcap (B) on and pull the endcap and gasket (C) off. Slide lenses (D) out of the lightbar, to gain access to the extrusion. When reinstalling the lenses and spacers, install the cord seal (NFPA / See below). When reinstalling the endcap, place the endcap gasket into its position on the endcap and line up all the tabs and holes. Spacers (not shown) mount the same as lenses.

Seal Cord Installation / NFPA MODELS ONLY:
1. Cut the seal cord approx. 1-1/2" longer than the extrusion on each side.
2. Rub silicon over the cord seal leaving 3 - 4 inches on one end dry.
3. Beginning with 1 corner lens, start the lens into the bottom lens track. Place the cord seal onto the groove in the top of the lens leaving 1 to 2 inches.
4. Hold onto the left end of the seal hanging out and slide the corner lens into position.
5. From the opposite end of the lightbar, pull the seal cord tight and install the remaining lenses and divider.

NOTE: Lens dividers must be installed as each lens is put into position
6. Inspect the seal cord for any areas that have wrinkled. Especially around the dividers.
7. Push lenses together tight and trim excess seal cord at each end.

Fig. 1 Corner Strobe / Top view of lightbar base

Fig. 2 Removing the Endcap and Lenses

Fig. 3 Corner Strobe / End view of lightbar base

IMPORTANT WARNING!

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

IMPORTANT! It is the responsibility of the installation technician to make sure that the installation and operation of this product will not interfere with or compromise the operation or efficiency of any vehicle equipment!
Option Kit: 2 or 4 LED or Halogen Lightheads and 1 Flasher

NOTE: Lightheads are shown in a suggested position. You can however, mount them in any part of the lightbar that there is space.

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 the load. DO NOT USE CIRCUIT BREAKERS WITH THIS PRODUCT!

IMPORTANT NOTE: The more options you add, the higher the fusing of your power cable should be. When you add any option to your lightbar, you should always consult the power cable fusing chart in the original 9M manual that came with your lightbar.